ANNEX I

SUMMARY OF PRODUCT CHARACTERISTICS
1. NAME OF THE MEDICINAL PRODUCT

TAXOTERE 20 mg/0.5 ml concentrate and solvent for solution for infusion

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each single-dose vial of TAXOTERE 20 mg/0.5 ml concentrate contains docetaxel (as trihydrate) corresponding to 20 mg of docetaxel (anhydrous). The viscous solution contains 40 mg/ml docetaxel (anhydrous).

Excipients with known effect:
Each single-dose vial of solvent contains 13% (w/w) ethanol 95% v/v in water for injection (252 mg of ethanol 95% v/v).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Concentrate and solvent for solution for infusion.
The concentrate is a clear viscous, yellow to brown-yellow solution.
The solvent is a colourless solution.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Breast cancer

TAXOTERE in combination with doxorubicin and cyclophosphamide is indicated for the adjuvant treatment of patients with:
- operable node-positive breast cancer
- operable node-negative breast cancer

For patients with operable node-negative breast cancer, adjuvant treatment should be restricted to patients eligible to receive chemotherapy according to internationally established criteria for primary therapy of early breast cancer (see section 5.1).

TAXOTERE in combination with doxorubicin is indicated for the treatment of patients with locally advanced or metastatic breast cancer who have not previously received cytotoxic therapy for this condition.

TAXOTERE monotherapy is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic therapy. Previous chemotherapy should have included an anthracycline or an alkylating agent.

TAXOTERE in combination with trastuzumab is indicated for the treatment of patients with metastatic breast cancer whose tumours over express HER2 and who previously have not received chemotherapy for metastatic disease.

TAXOTERE in combination with capecitabine is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy. Previous therapy should have included an anthracycline.
Non-small cell lung cancer

TAXOTERE is indicated for the treatment of patients with locally advanced or metastatic non-small cell lung cancer after failure of prior chemotherapy.

TAXOTERE in combination with cisplatin is indicated for the treatment of patients with unresectable, locally advanced or metastatic non-small cell lung cancer, in patients who have not previously received chemotherapy for this condition.

Prostate cancer

TAXOTERE in combination with prednisone or prednisolone is indicated for the treatment of patients with hormone refractory metastatic prostate cancer.

Gastric adenocarcinoma

TAXOTERE in combination with cisplatin and 5-fluorouracil is indicated for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction, who have not received prior chemotherapy for metastatic disease.

Head and neck cancer

TAXOTERE in combination with cisplatin and 5-fluorouracil is indicated for the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck.

4.2 Posology and method of administration

The use of docetaxel should be confined to units specialised in the administration of cytotoxic chemotherapy and it should only be administered under the supervision of a physician qualified in the use of anticancer chemotherapy (see section 6.6).

Recommended dose

For breast, non-small cell lung, gastric, and head and neck cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day (e.g. 8 mg BID) for 3 days starting 1 day prior to docetaxel administration, unless contraindicated, can be used (see section 4.4). Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities.

For prostate cancer, given the concurrent use of prednisone or prednisolone the recommended premedication regimen is oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the docetaxel infusion (see section 4.4).

Docetaxel is administered as a one-hour infusion every three weeks.

Breast cancer

In the adjuvant treatment of operable node-positive and node-negative breast cancer, the recommended dose of docetaxel is 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² every 3 weeks for 6 cycles (TAC regimen) (see also Dose adjustments during treatment). For the treatment of patients with locally advanced or metastatic breast cancer, the recommended dose of docetaxel is 100 mg/m² in monotherapy. In first-line treatment, docetaxel 75 mg/m² is given in combination therapy with doxorubicin (50 mg/m²).

In combination with trastuzumab the recommended dose of docetaxel is 100 mg/m² every three weeks, with trastuzumab administered weekly. In the pivotal study the initial docetaxel infusion was started the day following the first dose of trastuzumab. The subsequent docetaxel doses were administered immediately after completion of the trastuzumab infusion, if the preceding dose of trastuzumab was well tolerated. For trastuzumab dose and administration, see trastuzumab summary of product characteristics.
In combination with capecitabine, the recommended dose of docetaxel is 75 mg/m² every three weeks, combined with capecitabine at 1250 mg/m² twice daily (within 30 minutes after a meal) for 2 weeks followed by a 1-week rest period. For capecitabine dose calculation according to body surface area, see capecitabine summary of product characteristics.

**Non-small cell lung cancer**
In chemotherapy naïve patients treated for non-small cell lung cancer, the recommended dose regimen is docetaxel 75 mg/m² immediately followed by cisplatin 75 mg/m² over 30-60 minutes. For treatment after failure of prior platinum-based chemotherapy, the recommended dose is 75 mg/m² as a single agent.

**Prostate cancer**
The recommended dose of docetaxel is 75 mg/m². Prednisone or prednisolone 5 mg orally twice daily is administered continuously (see section 5.1).

**Gastric adenocarcinoma**
The recommended dose of docetaxel is 75 mg/m² as a 1-hour infusion, followed by cisplatin 75 mg/m², as a 1- to 3-hour infusion (both on day 1 only), followed by 5-fluorouracil 750 mg/m² per day given as a 24-hour continuous infusion for 5 days, starting at the end of the cisplatin infusion. Treatment is repeated every three weeks. Patients must receive premedication with antiemetics and appropriate hydration for cisplatin administration. Prophylactic G-CSF should be used to mitigate the risk of haematological toxicities (see also Dose adjustments during treatment).

**Head and neck cancer**
Patients must receive premedication with antiemetics and appropriate hydration (prior to and after cisplatin administration). Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities. All patients on the docetaxel-containing arm of the TAX 323 and TAX 324 studies, received prophylactic antibiotics.

- Induction chemotherapy followed by radiotherapy (TAX 323)
  For the induction treatment of inoperable locally advanced squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1 hour infusion followed by cisplatin 75 mg/m² over 1 hour, on day one, followed by 5-fluorouracil as a continuous infusion at 750 mg/m² per day for five days. This regimen is administered every 3 weeks for 4 cycles. Following chemotherapy, patients should receive radiotherapy.

- Induction chemotherapy followed by chemoradiotherapy (TAX 324)
  For the induction treatment of patients with locally advanced (technically unresectable, low probability of surgical cure, and aiming at organ preservation) squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1 hour intravenous infusion on day 1, followed by cisplatin 100 mg/m² administrated as a 30-minute to 3-hour infusion, followed by 5-fluorouracil 1000 mg/m²/day as a continuous infusion from day 1 to day 4. This regimen is administered every 3 weeks for 3 cycles. Following chemotherapy, patients should receive chemoradiotherapy.

For cisplatin and 5-fluorouracil dose modifications, see the corresponding summary of product characteristics.

**Dose adjustments during treatment**

**General**
Docetaxel should be administered when the neutrophil count is ≥ 1,500 cells/mm³. In patients who experienced either febrile neutropenia, neutrophil count < 500 cells/mm³ for more than one week, severe or cumulative cutaneous reactions or severe peripheral neuropathy during docetaxel therapy, the dose of docetaxel should be reduced from 100 mg/m² to 75 mg/m² and/or from 75 to
60 mg/m². If the patient continues to experience these reactions at 60 mg/m², the treatment should be discontinued.

**Adjuvant therapy for breast cancer**

Primary G-CSF prophylaxis should be considered in patients who receive docetaxel, doxorubicin and cyclophosphamide (TAC) adjuvant therapy for breast cancer. Patients who experience febrile neutropenia and/or neutropenic infection should have their docetaxel dose reduced to 60 mg/m² in all subsequent cycles (see sections 4.4 and 4.8). Patients who experience Grade 3 or 4 stomatitis should have their dose decreased to 60 mg/m².

**In combination with cisplatin**

For patients who are dosed initially at docetaxel 75 mg/m² in combination with cisplatin and whose nadir of platelet count during the previous course of therapy is < 25,000 cells/mm³, or in patients who experience febrile neutropenia, or in patients with serious non-haematologic toxicities, the docetaxel dose in subsequent cycles should be reduced to 65 mg/m². For cisplatin dose adjustments, see the corresponding summary of product characteristics.

**In combination with capecitabine**

- For capecitabine dose modifications, see capecitabine summary of product characteristics.
- For patients developing the first appearance of Grade 2 toxicity, which persists at the time of the next docetaxel/capecitabine treatment, delay treatment until resolved to Grade 0-1, and resume at 100% of the original dose.
- For patients developing the second appearance of Grade 2 toxicity, or the first appearance of Grade 3 toxicity, at any time during the treatment cycle, delay treatment until resolved to Grade 0-1 and then resume treatment with docetaxel 55 mg/m².
- For any subsequent appearances of toxicities, or any Grade 4 toxicities, discontinue the docetaxel dose.

For trastuzumab dose modifications, see trastuzumab summary of product characteristics.

**In combination with cisplatin and 5-fluorouracil**

If an episode of febrile neutropenia, prolonged neutropenia or neutropenic infection occurs despite G-CSF use, the docetaxel dose should be reduced from 75 to 60 mg/m². If subsequent episodes of complicated neutropenia occur the docetaxel dose should be reduced from 60 to 45 mg/m². In case of Grade 4 thrombocytopenia the docetaxel dose should be reduced from 75 to 60 mg/m². Patients should not be retreated with subsequent cycles of docetaxel until neutrophils recover to a level > 1,500 cells/mm³ and platelets recover to a level > 100,000 cells/mm³. Discontinue treatment if these toxicities persist see section 4.4).

Recommended dose modifications for toxicities in patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (5-FU):

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Dose adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diarrhoea grade 3</td>
<td>First episode: reduce 5-FU dose by 20%. Second episode: then reduce docetaxel dose by 20%.</td>
</tr>
<tr>
<td>Diarrhoea grade 4</td>
<td>First episode: reduce docetaxel and 5-FU doses by 20%. Second episode: discontinue treatment.</td>
</tr>
<tr>
<td>Stomatitis/mucositis grade 3</td>
<td>First episode: reduce 5-FU dose by 20%. Second episode: stop 5-FU only, at all subsequent cycles. Third episode: reduce docetaxel dose by 20%.</td>
</tr>
<tr>
<td>Stomatitis/mucositis grade 4</td>
<td>First episode: stop 5-FU only, at all subsequent cycles. Second episode: reduce docetaxel dose by 20%.</td>
</tr>
</tbody>
</table>

For cisplatin and 5-fluorouracil dose adjustments, see the corresponding summary of product characteristics.
In the pivotal SCCHN studies patients who experienced complicated neutropenia (including prolonged neutropenia, febrile neutropenia, or infection), it was recommended to use G-CSF to provide prophylactic coverage (eg, day 6-15) in all subsequent cycles.

Special populations:

*Patients with hepatic impairment*
Based on pharmacokinetic data with docetaxel at 100 mg/m² as single agent, patients who have both elevations of transaminase (ALT and/or AST) greater than 1.5 times the upper limit of the normal range (ULN) and alkaline phosphatase greater than 2.5 times the ULN, the recommended dose of docetaxel is 75 mg/m² (see sections 4.4 and 5.2). For those patients with serum bilirubin > ULN and/or ALT and AST > 3.5 times the ULN associated with alkaline phosphatase > 6 times the ULN, no dose-reduction can be recommended and docetaxel should not be used unless strictly indicated. In combination with cisplatin and 5-fluorouracil for the treatment of patients with gastric adenocarcinoma, the pivotal clinical study excluded patients with ALT and/or AST > 1.5 × ULN associated with alkaline phosphatase > 2.5 × ULN, and bilirubin > 1 × ULN; for these patients, no dose-reductions can be recommended and docetaxel should not be used unless strictly indicated. No data are available in patients with hepatic impairment treated by docetaxel in combination in the other indications.

*Paediatric population*
The safety and efficacy of TAXOTERE in nasopharyngeal carcinoma in children aged 1 month to less than 18 years have not yet been established. There is no relevant use of TAXOTERE in the paediatric population in the indications breast cancer, non-small cell lung cancer, prostate cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma.

*Older people*
Based on a population pharmacokinetic analysis, there are no special instructions for use in the older people. In combination with capcitabine, for patients 60 years of age or more, a starting dose reduction of capcitabine to 75% is recommended (see capcitabine summary of product characteristics).

4.3 Contraindications
Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Docetaxel must not be used in patients with baseline neutrophil count of < 1,500 cells/mm³.

Docetaxel must not be used in patients with severe liver impairment since there is no data available (see sections 4.2 and 4.4).

Contraindications for other medicinal products also apply, when combined with docetaxel.

4.4 Special warnings and precautions for use
For breast and non-small cell lung cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day (e.g. 8 mg BID) for 3 days starting 1 day prior to docetaxel administration, unless contraindicated, can reduce the incidence and severity of fluid retention as well as the severity of hypersensitivity reactions. For prostate cancer, the premedication is oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the docetaxel infusion (see section 4.2).

Haematology
Neutropenia is the most frequent adverse reaction of docetaxel. Neutrophil nadirs occurred at a median of 7 days but this interval may be shorter in heavily pre-treated patients. Frequent monitoring of
complete blood counts should be conducted on all patients receiving docetaxel. Patients should be retreated with docetaxel when neutrophils recover to a level $\geq 1,500$ cells/mm$^3$ (see section 4.2).

In the case of severe neutropenia ($< 500$ cells/mm$^3$ for seven days or more) during a course of docetaxel therapy, a reduction in dose for subsequent courses of therapy or the use of appropriate symptomatic measures are recommended (see section 4.2).

In patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (TCF), febrile neutropenia and neutropenic infection occurred at lower rates when patients received prophylactic G-CSF. Patients treated with TCF should receive prophylactic G-CSF to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients receiving TCF should be closely monitored (see sections 4.2 and 4.8).

In patients treated with docetaxel in combination with doxorubicin and cyclophosphamide (TAC), febrile neutropenia and/or neutropenic infection occurred at lower rates when patients received primary G-CSF prophylaxis. Primary G-CSF prophylaxis should be considered in patients who receive adjuvant therapy with TAC for breast cancer to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients receiving TAC should be closely monitored (see sections 4.2 and 4.8).

**Hypersensitivity reactions**

Patients should be observed closely for hypersensitivity reactions especially during the first and second infusions. Hypersensitivity reactions may occur within a few minutes following the initiation of the infusion of docetaxel, thus facilities for the treatment of hypotension and bronchospasm should be available. If hypersensitivity reactions occur, minor symptoms such as flushing or localised cutaneous reactions do not require interruption of therapy. However, severe reactions, such as severe hypotension, bronchospasm or generalised rash/erythema require immediate discontinuation of docetaxel and appropriate therapy. Patients who have developed severe hypersensitivity reactions should not be re-challenged with docetaxel.

**Cutaneous reactions**

Localised skin erythema of the extremities (palms of the hands and soles of the feet) with oedema followed by desquamation has been observed. Severe symptoms such as eruptions followed by desquamation which lead to interruption or discontinuation of docetaxel treatment were reported (see section 4.2).

**Fluid retention**

Patients with severe fluid retention such as pleural effusion, pericardial effusion and ascites should be monitored closely.

**Respiratory disorders**

Acute respiratory distress syndrome, interstitial pneumonia/pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure have been reported and may be associated with fatal outcome. Cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.

If new or worsening pulmonary symptoms develop, patients should be closely monitored, promptly investigated, and appropriately treated. Interruption of docetaxel therapy is recommended until diagnosis is available. Early use of supportive care measures may help improve the condition. The benefit of resuming docetaxel treatment must be carefully evaluated.
Patients with liver impairment

In patients treated with docetaxel at 100 mg/m² as single agent who have serum transaminase levels (ALT and/or AST) greater than 1.5 times the ULN concurrent with serum alkaline phosphatase levels greater than 2.5 times the ULN, there is a higher risk of developing severe adverse reactions such as toxic deaths including sepsis and gastrointestinal haemorrhage which can be fatal, febrile neutropenia, infections, thrombocytopenia, stomatitis and asthenia. Therefore, the recommended dose of docetaxel in those patients with elevated liver function test (LFTs) is 75 mg/m² and LFTs should be measured at baseline and before each cycle (see section 4.2).

For patients with serum bilirubin levels > ULN and/or ALT and AST > 3.5 times the ULN concurrent with serum alkaline phosphatase levels > 6 times the ULN, no dose-reduction can be recommended and docetaxel should not be used unless strictly indicated.

In combination with cisplatin and 5-fluorouracil for the treatment of patients with gastric adenocarcinoma, the pivotal clinical study excluded patients with ALT and/or AST > 1.5 × ULN associated with alkaline phosphatase > 2.5 × ULN, and bilirubin > 1 x ULN; for these patients, no dose-reductions can be recommended and docetaxel should not be used unless strictly indicated. No data are available in patients with hepatic impairment treated by docetaxel in combination in the other indications.

Patients with renal impairment

There are no data available in patients with severely impaired renal function treated with docetaxel.

Nervous system

The development of severe peripheral neurotoxicity requires a reduction of dose (see section 4.2).

Cardiac toxicity

Heart failure has been observed in patients receiving docetaxel in combination with trastuzumab, particularly following anthracycline (doxorubicin or epirubicin)-containing chemotherapy. This may be moderate to severe and has been associated with death (see section 4.8).

When patients are candidates for treatment with docetaxel in combination with trastuzumab, they should undergo baseline cardiac assessment. Cardiac function should be further monitored during treatment (e.g. every three months) to help identify patients who may develop cardiac dysfunction. For more details see summary of product characteristics of trastuzumab.

Ventricular arrhythmia including ventricular tachycardia (sometimes fatal) has been reported in patients treated with docetaxel in combination regimens including doxorubicin, 5-fluorouracil and/ or cyclophosphamide (see section 4.8). Baseline cardiac assessment is recommended.

Eye disorders

Cystoid macular oedema (CMO) has been reported in patients treated with docetaxel. Patients with impaired vision should undergo a prompt and complete ophthalmologic examination. In case CMO is diagnosed, docetaxel treatment should be discontinued and appropriate treatment initiated (see section 4.8).

Others

Contraceptive measures must be taken by both men and women during treatment and for men at least 6 months after cessation of therapy (see section 4.6).
The concomitant use of docetaxel with strong CYP3A4 inhibitors (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin and voriconazole) should be avoided (see section 4.5).

**Additional cautions for use in adjuvant treatment of breast cancer**

**Complicated neutropenia**
For patients who experience complicated neutropenia (prolonged neutropenia, febrile neutropenia or infection), G-CSF and dose reduction should be considered (see section 4.2).

**Gastrointestinal reactions**
Symptoms such as early abdominal pain and tenderness, fever, diarrhoea, with or without neutropenia, may be early manifestations of serious gastrointestinal toxicity and should be evaluated and treated promptly.

**Congestive heart failure (CHF)**
Patients should be monitored for symptoms of congestive heart failure during therapy and during the follow up period. In patients treated with the TAC regimen for node positive breast cancer, the risk of CHF has been shown to be higher during the first year after treatment (see sections 4.8 and 5.1).

**Leukaemia**
In the docetaxel, doxorubicin and cyclophosphamide (TAC) treated patients, the risk of delayed myelodysplasia or myeloid leukaemia requires haematological follow-up.

**Patients with 4+ nodes**
As the benefit observed in patient with 4+ nodes was not statistically significant on disease-free survival (DFS) and overall survival (OS), the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis (see section 5.1).

**Older people**
There are limited data available in patients > 70 years of age on docetaxel use in combination with doxorubicin and cyclophosphamide.

Of the 333 patients treated with docetaxel every three weeks in a prostate cancer study, 209 patients were 65 years of age or greater and 68 patients were older than 75 years. In patients treated with docetaxel every three weeks, the incidence of related nail changes occurred at a rate ≥ 10% higher in patients who were 65 years of age or greater compared to younger patients. The incidence of related fever, diarrhoea, anorexia, and peripheral oedema occurred at rates ≥ 10% higher in patients who were 75 years of age or greater versus less than 65 years.

Among the 300 (221 patients in the phase III part of the study and 79 patients in the phase II part) patients treated with docetaxel in combination with cisplatin and 5-fluorouracil in the gastric cancer study, 74 were 65 years of age or older and 4 patients were 75 years of age or older. The incidence of serious adverse events was higher in older people compared to younger patients. The incidence of the following adverse events (all grades): lethargy, stomatitis, neutropenic infection occurred at rates ≥ 10% higher in patients who were 65 years of age or older compared to younger patients. Older people treated with TCF should be closely monitored.

**Excipients**
This medicinal product contains 13 % (w/w) ethanol 95% v/v (alcohol), i.e. up to 252 mg ethanol 95% v/v per solvent vial, equivalent to 6 ml of beer or 2.6 ml wine per vial.

Harmful for those suffering from alcoholism.
To be taken into account in pregnant or breast-feeding women, in children and in high-risk groups such as patients with liver disease, or epilepsy.
Consideration should be given to possible effects on the central nervous system.

The amount of alcohol in this medicinal product may alter the effects of other medicinal products.

The amount of alcohol in this medicinal product may impair the patient’s ability to drive or use machines (see section 4.7).

4.5 Interaction with other medicinal products and other forms of interaction

*In vitro* studies have shown that the metabolism of docetaxel may be modified by the concomitant administration of compounds which induce, inhibit or are metabolised by (and thus may inhibit the enzyme competitively) cytochrome P450-3A such as ciclosporine, ketoconazole and erythromycin. As a result, caution should be exercised when treating patients with these medicinal products as concomitant therapy since there is a potential for a significant interaction.

In case of combination with CYP3A4 inhibitors, the occurrence of docetaxel adverse reactions may increase, as a result of reduced metabolism. If the concomitant use of a strong CYP3A4 inhibitor (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, nefdinavir, ritonavir, saquinavir, telithromycin and voriconazole) cannot be avoided, a close clinical surveillance is warranted and a dose-adjustment of docetaxel may be suitable during the treatment with the strong CYP3A4 inhibitor (see section 4.4). In a pharmacokinetic study with 7 patients, the co-administration of docetaxel with the strong CYP3A4 inhibitor ketoconazole leads to a significant decrease in docetaxel clearance by 49%.

Docetaxel pharmacokinetics in the presence of prednisone was studied in patients with metastatic prostate cancer. Docetaxel is metabolised by CYP3A4 and prednisone is known to induce CYP3A4. No statistically significant effect of prednisone on the pharmacokinetics of docetaxel was observed.

Docetaxel is highly protein bound (> 95%). Although the possible *in vivo* interaction of docetaxel with concomitantly administered medicinal product has not been investigated formally, *in vitro* interactions with tightly protein-bound agents such as erythromycin, diphenhydramine, propranolol, propafenone, phenytoin, salicylate, sulfamethoxazole and sodium valproate did not affect protein binding of docetaxel. In addition, dexamethasone did not affect protein binding of docetaxel. Docetaxel did not influence the binding of digitoxin.

The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their co-administration. Limited data from a single uncontrolled study were suggestive of an interaction between docetaxel and carboplatin. When combined to docetaxel, the clearance of carboplatin was about 50% higher than values previously reported for carboplatin monotherapy.

4.6 Fertility, pregnancy and lactation

**Pregnancy**

There is no information on the use of docetaxel in pregnant women. Docetaxel has been shown to be both embryotoxic and foetotoxic in rabbits and rats, and to reduce fertility in rats. As with other cytotoxic medicinal products, docetaxel may cause foetal harm when administered to pregnant women. Therefore, docetaxel must not be used during pregnancy unless clearly indicated.

Women of childbearing age receiving docetaxel should be advised to avoid becoming pregnant, and to inform the treating physician immediately should this occur.

**Breast-feeding**

Docetaxel is a lipophilic substance but it is not known whether it is excreted in human milk. Consequently, because of the potential for adverse reactions in nursing infants, breast feeding must be discontinued for the duration of docetaxel therapy.

**Contraception in males and females**
An effective method of contraception should be used during treatment.

Fertility

In non clinical studies, docetaxel has genotoxic effects and may alter male fertility (see section 5.3). Therefore, men being treated with docetaxel are advised not to father a child during and up to 6 months after treatment and to seek advice on conservation of sperm prior to treatment.

4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed. The amount of ethanol in Taxotere may impair the ability to drive or use machines (see section 4.4).

4.8 Undesirable effects

Summary of the safety profile for all indications

The adverse reactions considered to be possibly or probably related to the administration of docetaxel have been obtained in:

- 1312 and 121 patients who received 100 mg/m² and 75 mg/m² of docetaxel as a single agent respectively.
- 258 patients who received docetaxel in combination with doxorubicin.
- 406 patients who received docetaxel in combination with cisplatin.
- 92 patients treated with docetaxel in combination with trastuzumab.
- 255 patients who received docetaxel in combination with capecitabine.
- 332 patients who received docetaxel in combination with prednisone or prednisolone (clinically important treatment related adverse events are presented).
- 1276 patients (744 and 532 in TAX 316 and GEICAM 9805 respectively) who received docetaxel in combination with doxorubicin and cyclophosphamide (clinically important treatment related adverse events are presented).
- 300 gastric adenocarcinoma patients (221 patients in the phase III part of the study and 79 patients in the phase II part) who received docetaxel in combination with cisplatin and 5-fluorouracil (clinically important treatment related adverse events are presented).
- 174 and 251 head and neck cancer patients who received docetaxel in combination with cisplatin and 5-fluorouracil (clinically important treatment related adverse events are presented).

These reactions were described using the NCI Common Toxicity Criteria (grade 3 = G3; grade 3-4 = G3/4; grade 4 = G4), the COSTART and the MedDRA terms. Frequencies are defined as: very common (≥ 1/10), common (≥ 1/100 to < 1/10); uncommon (≥ 1/1,000 to < 1/100); rare (≥ 1/10,000 to < 1/1,000); very rare (< 1/10,000); not known (cannot be estimated from available data).

Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

The most commonly reported adverse reactions of docetaxel alone are: neutropenia (which was reversible and not cumulative; the median day to nadir was 7 days and the median duration of severe neutropenia (< 500 cells/mm³) was 7 days), anaemia, alopecia, nausea, vomiting, stomatitis, diarrhoea and asthenia. The severity of adverse events of docetaxel may be increased when docetaxel is given in combination with other chemotherapeutic agents.

For combination with trastuzumab, adverse events (all grades) reported in ≥ 10% are displayed. There was an increased incidence of SAEs (40% vs. 31%) and Grade 4 AEs (34% vs. 23%) in the trastuzumab combination arm compared to docetaxel monotherapy.
For combination with capecitabine, the most frequent treatment-related undesirable effects (≥ 5%) reported in a phase III study in breast cancer patients failing anthracycline treatment are presented (see capecitabine summary of product characteristics).

The following adverse reactions are frequently observed with docetaxel:

**Immune system disorders**

Hypersensitivity reactions have generally occurred within a few minutes following the start of the infusion of docetaxel and were usually mild to moderate. The most frequently reported symptoms were flushing, rash with or without pruritus, chest tightness, back pain, dyspnoea and fever or chills. Severe reactions were characterised by hypotension and/or bronchospasm or generalized rash/erythema (see section 4.4).

**Nervous system disorders**

The development of severe peripheral neurotoxicity requires a reduction of dose (see sections 4.2 and 4.4). Mild to moderate neuro-sensory signs are characterised by paresthesia, dysesthesia or pain including burning. Neuro-motor events are mainly characterised by weakness.

**Skin and subcutaneous tissue disorders**

Reversible cutaneous reactions have been observed and were generally considered as mild to moderate. Reactions were characterised by a rash including localised eruptions mainly on the feet and hands (including severe hand and foot syndrome), but also on the arms, face or thorax, and frequently associated with pruritus. Eruptions generally occurred within one week after the docetaxel infusion. Less frequently, severe symptoms such as eruptions followed by desquamation which rarely lead to interruption or discontinuation of docetaxel treatment were reported (see sections 4.2 and 4.4). Severe nail disorders are characterised by hypo- or hyperpigmentation and sometimes pain and onycholysis.

**General disorders and administration site conditions**

Infusion site reactions were generally mild and consisted of hyper pigmentation, inflammation, redness or dryness of the skin, phlebitis or extravasation and swelling of the vein. Fluid retention includes events such as peripheral oedema and less frequently pleural effusion, pericardial effusion, ascites and weight gain. The peripheral oedema usually starts at the lower extremities and may become generalised with a weight gain of 3 kg or more. Fluid retention is cumulative in incidence and severity (see section 4.4).

**Tabulated list of adverse reactions in breast cancer for TAXOTERE 100 mg/m² single agent**

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infections (G3/4: 5.7%; including sepsis and pneumonia, fatal in 1.7%)</td>
<td>Infection associated with G4 neutropenia (G3/4: 4.6%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 76.4%); Anaemia (G3/4: 8.9%); Febrile neutropenia</td>
<td>Thrombocytopenia (G4: 0.2%)</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 5.3%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system</td>
<td>Peripheral sensory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------------------------</td>
<td>--------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>disorders</td>
<td>neuropathy (G3: 4.1%); Peripheral motor neuropathy (G3/4: 4%); Dysgeusia (severe: 0.07%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Arrhythmia (G3/4: 0.7%)</td>
<td>Cardiac failure</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Hypotension; Hypertension; Haemorrhage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Dyspnoea (severe: 2.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Stomatitis (G3/4: 5.3%); Diarrhoea (G3/4: 4%); Nausea (G3/4: 4%); Vomiting (G3/4: 3%)</td>
<td>Constipation (severe: 0.2%); Abdominal pain (severe: 1%); Gastrointestinal haemorrhage (severe: 0.3%)</td>
<td>Oesophagitis (severe: 0.4%)</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Skin reaction (G3/4: 5.9%); Nail disorders (severe: 2.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (severe: 1.4%)</td>
<td>Arthralgia</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Fluid retention (severe: 6.5%); Asthenia (severe: 11.2%); Pain</td>
<td>Infusion site reaction; Non-cardiac chest pain (severe: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>G3/4 Blood bilirubin increased (&lt; 5%); G3/4 Blood alkaline phosphatase increased (&lt; 4%); G3/4 AST increased (&lt; 3%); G3/4 ALT increased (&lt; 2%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description of selected adverse reactions in breast cancer for TAXOTERE 100 mg/m² single agent

**Blood and lymphatic system disorders**
Rare: bleeding episodes associated with grade 3/4 thrombocytopenia.

**Nervous system disorders**
Reversibility data are available among 35.3% of patients who developed neurotoxicity following docetaxel treatment at 100 mg/m² as single agent. The events were spontaneously reversible within 3 months.
**Skin and subcutaneous tissue disorders**
Very rare: one case of alopecia non-reversible at the end of the study. 73% of the cutaneous reactions were reversible within 21 days.

**General disorders and administration site conditions**
The median cumulative dose to treatment discontinuation was more than 1,000 mg/m² and the median time to fluid retention reversibility was 16.4 weeks (range 0 to 42 weeks). The onset of moderate and severe retention is delayed (median cumulative dose: 818.9 mg/m²) in patients with premedication compared with patients without premedication (median cumulative dose: 489.7 mg/m²); however, it has been reported in some patients during the early courses of therapy.

Tabulated list of adverse reactions in non-small cell lung cancer for TAXOTERE 75 mg/m² single agent

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infections (G3/4: 5%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 54.2%);</td>
<td>Febrile neutropenia</td>
</tr>
<tr>
<td></td>
<td>Anaemia (G3/4: 10.8%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thrombocytopenia (G4: 1.7%)</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(G3/4: 0.8%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 3.3%);</td>
<td>Constipation</td>
</tr>
<tr>
<td></td>
<td>Stomatitis (G3/4: 1.7%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vomiting (G3/4: 0.8%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diarrhoea (G3/4: 1.7%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia;</td>
<td>Nail disorders (severe: 0.8%)</td>
</tr>
<tr>
<td></td>
<td>Skin reaction (G3/4: 0.8%)</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td>Myalgia</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 12.4%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fluid retention (severe: 0.8%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Pain</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td>G3/4 Blood bilirubin increased (&lt; 2%)</td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in breast cancer for TAXOTERE 75 mg/m² in combination with doxorubicin

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 7.8%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 91.7%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anaemia (G3/4: 9.4%);</td>
<td></td>
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<tr>
<td></td>
<td>Febrile neutropenia;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thrombocytopenia (G4: 0.8%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------------------------------------------------------------</td>
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<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td>Hyper sensitivity (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td></td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 0.4%)</td>
<td>Peripheral motor neuropathy (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Cardiac failure; Arrhythmia (no severe)</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td>Hypotension</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 5%); Stomatitis (G3/4: 7.8%); Diarrhoea (G3/4: 6.2%); Vomiting (G3/4: 5%); Constipation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (severe: 0.4%); Skin reaction (no severe)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td>Myalgia</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 8.1%); Fluid retention (severe: 1.2%); Pain</td>
<td>Infusion site reaction</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>G3/4 Blood bilirubin increased (&lt; 2.5%); G3/4 Blood alkaline phosphatase increased (&lt; 2.5%)</td>
<td>G3/4 AST increased (&lt; 1%); G3/4 ALT increased (&lt; 1%)</td>
<td></td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions in non-small cell lung cancer for TAXOTERE 75 mg/m² in combination with cisplatin

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 5.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 51.5%); Anaemia (G3/4: 6.9%); Thrombocytopenia (G4: 0.5%)</td>
<td>Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 2.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 3.7%); Peripheral motor neuropathy (G3/4: 2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Arrhythmia (G3/4: 0.7%)</td>
<td>Cardiac failure</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Hypotension (G3/4: 0.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 9.6%); Vomiting (G3/4: 7.6%); Diarrhoea (G3/4: 6.4%); Stomatitis (G3/4: 2%)</td>
<td>Constipation</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (severe: 0.7%); Skin reaction (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (severe: 0.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 9.9%); Fluid retention (severe: 0.7%); Fever (G3/4: 1.2%)</td>
<td>Infusion site reaction; Pain</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>G3/4 Blood bilirubin increased (2.1%); G3/4 ALT increased (1.3%)</td>
<td></td>
<td>G3/4 AST increased (0.5%); G3/4 Blood alkaline phosphatase increased (0.3%)</td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions in breast cancer for TAXOTERE 100 mg/m² in combination with trastuzumab

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 32%); Febrile neutropenia (includes neutropenia associated with fever and antibiotic use) or neutropenic sepsis</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td>Insomnia</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Paresthesia; Headache; Dysgeusia; Hypoaesthesia</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased; Conjunctivitis</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Cardiac failure</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Lymphoedema</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Epistaxis; Pharyngolaryngeal pain; Nasopharyngitis; Dyspnoea; Cough; Rhinorhoea</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea; Diarrhoea; Vomiting; Constipation; Stomatitis; Dyspepsia; Abdominal pain</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Erythema; Rash; Nail disorders</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia; Arthralgia; Pain in extremity; Bone pain; Back pain</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia; Oedema peripheral; Pyrexia; Fatigue; Mucosal inflammation; Pain; Influenza like illness; Chest pain; Chills</td>
<td>Lethargy</td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight increased</td>
<td></td>
</tr>
</tbody>
</table>

Description of selected adverse reactions in breast cancer for TAXOTERE 100 mg/m² in combination with trastuzumab

**Cardiac disorders**
Symptomatic cardiac failure was reported in 2.2% of the patients who received docetaxel plus trastuzumab compared to 0% of patients given docetaxel alone. In the docetaxel plus trastuzumab arm, 64% had received a prior anthracycline as adjuvant therapy compared with 55% in the docetaxel arm alone.

**Blood and lymphatic system disorders**
Very common: Haematological toxicity was increased in patients receiving trastuzumab and docetaxel, compared with docetaxel alone (32% grade 3/4 neutropenia versus 22%, using NCI-CTC criteria). Note that this is likely to be an underestimate since docetaxel alone at a dose of 100 mg/m² is known to result in neutropenia in 97% of patients, 76% grade 4, based on nadir blood counts. The incidence of febrile neutropenia/neutropenic sepsis was also increased in patients treated with Herceptin plus docetaxel (23% versus 17% for patients treated with docetaxel alone).
Tabulated list of adverse reactions in breast cancer for TAXOTERE 75 mg/m² in combination with capecitabine

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Oral candidiasis (G3/4: &lt; 1%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 63%); Anaemia (G3/4: 10%)</td>
<td>Thrombocytopenia (G3/4: 3%)</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 1%); Decreased appetite</td>
<td>Dehydration (G3/4: 2%)</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia (G3/4: &lt; 1%); Paraesthesia (G3/4: &lt; 1%)</td>
<td>Dizziness; Headache (G3/4: &lt; 1%); Neuropathy peripheral</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Pharyngolaryngeal pain (G3/4: 2%)</td>
<td>Dyspnoea (G3/4: 1%); Cough (G3/4: &lt; 1%); Epistaxis (G3/4: &lt; 1%)</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Stomatitis (G3/4: 18%); Diarrhoea (G3/4: 14%); Nausea (G3/4: 6%); Vomiting (G3/4: 4%); Constipation (G3/4: 1%); Abdominal pain (G3/4: 2%); Dyspepsia</td>
<td>Abdominal pain upper; Dry mouth</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Hand-foot syndrome (G3/4: 24%); Alopecia (G3/4: 6%); Nail disorders (G3/4: 2%)</td>
<td>Dermatitis; Rash erythematous (G3/4: &lt; 1%); Nail discolouration; Onycholysis (G3/4: 1%)</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (G3/4: 2%); Arthralgia (G3/4: 1%)</td>
<td>Pain in extremity (G3/4: &lt; 1%); Back pain (G3/4: 1%)</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (G3/4: 3%); Pyrexia (G3/4: 1%); Fatigue/weakness (G3/4: 5%); Oedema peripheral (G3/4: 1%)</td>
<td>Lethargy; Pain</td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight decreased; G3/4 Blood bilirubin increased (9%)</td>
<td></td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions in prostate cancer for TAXOTERE 75 mg/m² in combination with prednisone or prednisolone

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 3.3%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 32%); Anaemia (G3/4: 4.9%)</td>
<td>Thrombocytopenia (G3/4: 0.6%); Febrile neutropenia</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td>Hypersensitivity (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 1.2%); Dysgeusia (G3/4: 0%)</td>
<td>Peripheral motor neuropathy (G3/4: 0%)</td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td>Lacrimation increased (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Cardiac left ventricular function decrease (G3/4: 0.3%)</td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td></td>
<td>Epistaxis (G3/4: 0%); Dyspnoea (G3/4: 0.6%); Cough (G3/4: 0%)</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 2.4%); Diarrhoea (G3/4: 1.2%); Stomatitis/Pharyngitis (G3/4: 0.9%); Vomiting (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (no severe)</td>
<td>Exfoliative rash (G3/4: 0.3%)</td>
</tr>
<tr>
<td>Musculoskeletal and connective bone disorders</td>
<td></td>
<td>Arthralgia (G3/4: 0.3%); Myalgia (G3/4: 0.3%)</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Fatigue (G3/4: 3.9%); Fluid retention (severe: 0.6%)</td>
<td></td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions for adjuvant therapy with TAXOTERE 75 mg/m² in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer - pooled data

<table>
<thead>
<tr>
<th>MedDRA System Organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 2.4%); Neutropenic infection (G3/4: 2.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Anaemia (G3/4: 3%); Neutropenia (G3/4: 59.2%); Thrombocytopenia (G3/4: 1.6%); Febrile neutropenia (G3/4: NA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 0.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 1.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia (G3/4: 0.6%); Peripheral sensory neuropathy (G3/4: &lt;0.1%)</td>
<td>Peripheral motor neuropathy (G3/4: 0%)</td>
<td>Syncope (G3/4: 0%); Neurotoxicity (G3/4: 0%); Somnolence (G3/4: 0%)</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Conjunctivitis (G3/4: &lt;0.1%)</td>
<td>Lacrimation increased (G3/4: &lt;0.1%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Arrhythmia (G3/4: 0.2%)</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Hot flush (G3/4: 0.5%)</td>
<td>Hypotension (G3/4: 0%); Phlebitis (G3/4: 0%)</td>
<td>Lymphoedema (G3/4: 0%)</td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td></td>
<td>Cough (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 5.0%); Stomatitis (G3/4: 6.0%); Vomiting (G3/4: 4.2%); Diarrhoea (G3/4: 3.4%); Constipation (G3/4: 0.5%)</td>
<td>Abdominal pain (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (persisting: &lt;3%); Skin disorder (G3/4: 0.6%); Nail disorders (G3/4: 0.4%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (G3/4: 0.7%); Arthralgia (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### MedDRA System Organ classes

<table>
<thead>
<tr>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproductive system and breast disorders</td>
<td>Amenorrhoea (G3/4: NA)</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (G3/4: 10.0%); Pyrexia (G3/4: NA); Oedema peripheral (G3/4: 0.2%)</td>
<td>Weight increased (G3/4: 0%); Weight decreased (G3/4: 0.2%)</td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description of selected adverse reactions for adjuvant therapy with TAXOTERE 75 mg/m² in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer

**Nervous system disorders**

In study TAX316 peripheral sensory neuropathy started during the treatment period and persisted into the follow-up period in 84 patients (11.3%) in TAC arm and 15 patients (2%) in FAC arm. At the end of the follow-up period (median follow-up time of 8 years), peripheral sensory neuropathy was observed to be ongoing in 10 patients (1.3%) in TAC arm, and in 2 patients (0.3%) in FAC arm. In GEICAM 9805 study peripheral sensory neuropathy that started during the treatment period persisted into the follow-up period in 10 patients (1.9%) in TAC arm and 4 patients (0.8%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), peripheral sensory neuropathy was observed to be ongoing in 3 patients (0.6%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

**Cardiac disorders**

In study TAX316, 26 patients (3.5%) in the TAC arm and 17 patients (2.3%) in the FAC arm experienced congestive heart failure. All except one patient in each arm were diagnosed with CHF more than 30 days after the treatment period. Two patients in the TAC arm and 4 patients in the FAC arm died because of cardiac failure. In GEICAM 9805 study, 3 patients (0.6%) in TAC arm and 3 patients (0.6%) in FAC arm developed congestive heart failure during the follow-up period. At the end of the follow-up period (actual median follow-up time of 10 years and 5 months), no patients had CHF in TAC arm and 1 patient in TAC arm died because of dilated cardiomyopathy, and CHF was observed to be ongoing in 1 patient (0.2%) in FAC arm.

**Skin and subcutaneous tissue disorders**

In study TAX316 alopecia persisting into the follow-up period after the end of chemotherapy was reported in 687 of 744 TAC patients (92.3%) and 645 of 736 FAC patients (87.6%). At the end of the follow-up period (actual median follow-up time of 8 years), alopecia was observed to be ongoing in 29 TAC patients (3.9%) and 16 FAC patients (2.2%). In GEICAM 9805 study alopecia that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 49 patients (9.2%) in TAC arm and 35 patients (6.7%) in FAC arm. Alopecia related to study drug started or worsened during the follow-up period in 42 patients (7.9%) in TAC arm and 30 patients (5.8%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), alopecia was observed to be ongoing in 3 patients (0.6%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

**Reproductive system and breast disorders**

In TAX316 amenorrhoea that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 202 of 744 TAC patients (27.2%) and 125 of 736
FAC patients (17.0%). Amenorrhea was observed to be ongoing at the end of the follow-up period (median follow-up time of 8 years) in 121 of 744 TAC patients (16.3%) and 86 FAC patients (11.7%). In GEICAM 9805 study amenorrhea that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 18 patients (3.4%) in TAC arm and 5 patients (1.0%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), amenorrhoea was observed to be ongoing in 7 patients (1.3%) in TAC arm, and in 4 patients (0.8%) in FAC arm.

**General disorders and administration site conditions**

In study TAX316 peripheral oedema that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was observed in 119 of 744 TAC patients (16.0%) and 23 of 736 FAC patients (3.1%). At the end of the follow-up period (actual median follow-up time of 8 years), peripheral oedema was ongoing in 19 TAC patients (2.6%) and 4 FAC patients (0.5%).

In study TAX316 lymphoedema that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 11 of 744 TAC patients (1.5%) and 1 of 736 FAC patients (0.1%). At the end of the follow-up period (actual median follow-up time of 8 years), lymphoedema was observed to be ongoing in 6 TAC patients (0.8%) and 1 FAC patient (0.1%).

In study TAX316 asthenia that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 236 of 744 TAC patients (31.7%) and 180 of 736 FAC patients (24.5%). At the end of the follow-up period (actual median follow-up time of 8 years), asthenia was observed to be ongoing in 29 TAC patients (3.9%) and 16 FAC patients (2.2%).

In study GEICAM 9805 peripheral oedema that started during the treatment period persisted into the follow-up period in 4 patients (0.8%) in TAC arm and in 2 patients (0.4%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), no patients (0%) in TAC arm had peripheral oedema and it was observed to be ongoing in 1 patient (0.2%) in FAC arm.

Lymphoedema that started during the treatment period persisted into the follow-up period in 5 patients (0.9%) in TAC arm and 2 patients (0.4%) in FAC arm. At the end of the follow-up period, lymphoedema was observed to be ongoing in 4 patients (0.8%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

Asthenia that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 12 patients (2.3%) in TAC arm and 4 patients (0.8%) in FAC arm. At the end of the follow-up period, asthenia was observed to be ongoing in 2 patients (0.4%) in TAC arm, and in 2 patients (0.4%) in FAC arm.

**Acute leukaemia / Myelodysplastic syndrome.**

After 10 years of follow up in study TAX316, acute leukaemia was reported in 3 of 744 TAC patients (0.4%) and in 1 of 736 FAC patients (0.1%). One TAC patient (0.1%) and 1 FAC patient (0.1%) died due to AML during the follow-up period (median follow-up time of 8 years). Myelodysplastic syndrome was reported in 2 of 744 TAC patients (0.3%) and in 1 of 736 FAC patients (0.1%).

After 10 years of follow-up in GEICAM 9805 study, acute leukaemia occurred in 1 of 532 (0.2%) patients in TAC arm. No cases were reported in patients in FAC arm. No patient was diagnosed with myelodysplastic syndrome in either treatment groups.

**Neutropenic complications**

Table below shows that the incidence of Grade 4 neutropenia, febrile neutropenia and neutropenic infection was decreased in patients who received primary G-CSF prophylaxis after it was made mandatory in the TAC arm - GEICAM study.

**Neutropenic complications in patients receiving TAC with or without primary G-CSF prophylaxis (GEICAM 9805)**

<table>
<thead>
<tr>
<th></th>
<th>Without primary G-CSF prophylaxis (n = 111) n (%)</th>
<th>With primary G-CSF prophylaxis (n = 421) n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

22
### Tabulated list of adverse reactions in gastric adenocarcinoma cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Neutropenic infection; Infection (G3/4: 11.7%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Anaemia (G3/4: 20.9%); Neutropenia (G3/4: 83.2%); Thrombocytopenia (G3/4: 8.8%); Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 1.7%)</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 11.7%)</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 8.7%); Dizziness (G3/4: 2.3%); Peripheral motor neuropathy (G3/4: 1.3%)</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td>Lacrimation increased (G3/4: 0%)</td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td></td>
<td>Hearing impaired (G3/4: 0%)</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Arrhythmia (G3/4: 1.0%)</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Diarrhoea (G3/4: 19.7%); Nausea (G3/4: 16%); Stomatitis (G3/4: 23.7%); Vomiting (G3/4: 14.3%); Constipation (G3/4: 1.0%); Gastrointestinal pain (G3/4: 1.0%); Oesophagitis/dysphagia/odynophagia (G3/4: 0.7%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 4.0%); Rash pruritus (G3/4: 0.7%); Nail disorders (G3/4: 0.7%); Skin exfoliation (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 19.0%); Fever (G3/4: 2.3%); Fluid retention (severe/life-threatening: 1%)</td>
<td></td>
</tr>
</tbody>
</table>

### Description of selected adverse reactions in gastric adenocarcinoma cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

**Blood and lymphatic system disorders**

Febrile neutropenia and neutropenic infection occurred in 17.2% and 13.5% of patients respectively, regardless of G-CSF use. G-CSF was used for secondary prophylaxis in 19.3% of patients (10.7% of the cycles). Febrile neutropenia and neutropenic infection occurred respectively in 12.1% and 3.4% of patients when patients received prophylactic G-CSF, in 15.6% and 12.9% of patients without prophylactic G-CSF (see section 4.2).
Tabulated list of adverse reactions in head and neck cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

- Induction chemotherapy followed by radiotherapy (TAX 323)

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 6.3%); Neutropenic infection</td>
<td>Cancer pain (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Neutropenia (G3/4: 76.3%); Anaemia (G3/4: 9.2%); Thrombocytopenia (G3/4: 5.2%)</td>
<td>Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Dysgeusia/Parosmia; Peripheral sensory neuropathy (G3/4: 0.6%)</td>
<td>Dizziness</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (no severe)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 0.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Constipation; Esophagitis/dysphagia/odynophagia (G3/4: 0.6%); Abdominal pain; Dyspepsia; Gastrointestinal haemorrhage (G3/4: 0.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Venous disorder (G3/4: 0.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 0.6%); Stomatitis (G3/4: 4.0%); Diarrhoea (G3/4: 2.9%); Vomiting (G3/4: 0.6%)</td>
<td>Weight increased</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 10.9%)</td>
<td>Rash pruritic; Dry skin; Skin exfoliative (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (G3/4: 0.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 3.4%); Pyrexia (G3/4: 0.6%); Fluid retention; Oedema</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
- Induction chemotherapy followed by chemoradiotherapy (TAX 324)

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 3.6%)</td>
<td>Neutropenic infection</td>
<td></td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Neutropenia (G3/4: 83.5%); Anaemia (G3/4: 12.4%); Thrombocytopenia (G3/4: 4.0%); Febrile neutropenia</td>
<td>Cancer pain (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 12.0%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia/Parosmia (G3/4: 0.4%); Peripheral sensory neuropathy (G3/4: 1.2%)</td>
<td>Dizziness (G3/4: 2.0%); Peripheral motor neuropathy (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td>Hearing impaired (G3/4: 1.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 13.9%); Stomatitis (G3/4: 20.7%); Vomiting (G3/4: 8.4%); Diarrhoea (G3/4: 6.8%); Esophagitis/dysphagia/odynophagia (G3/4: 12.0%); Constipation (G3/4: 0.4%)</td>
<td>Dyspepsia (G3/4: 0.8%); Gastrointestinal pain (G3/4: 1.2%); Gastrointestinal haemorrhage (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 4.0%); Rash pruritic</td>
<td>Dry skin; Desquamation</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal, connective tissue bone disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 4.0%); Pyrexia (G3/4: 3.6%); Fluid retention (G3/4: 1.2%); Oedema (G3/4: 1.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------------------------</td>
<td>--------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight decreased</td>
<td>Weight increased</td>
<td></td>
</tr>
</tbody>
</table>

Post-marketing experience

**Neoplasms benign, malignant and unspecified (incl cysts and polyps)**
Cases of acute myeloid leukaemia and myelodysplastic syndrome have been reported in association with docetaxel when used in combination with other chemotherapy agents and/or radiotherapy.

**Blood and lymphatic system disorders**
Bone marrow suppression and other haematologic adverse reactions have been reported. Disseminated intravascular coagulation (DIC), often in association with sepsis or multiorgan failure, has been reported.

**Immune system disorders**
Some cases of anaphylactic shock, sometimes fatal, have been reported.

**Nervous system disorders**
Rare cases of convulsion or transient loss of consciousness have been observed with docetaxel administration. These reactions sometimes appear during the infusion of the medicinal product.

**Eye disorders**
Very rare cases of transient visual disturbances (flashes, flashing lights, scotomata) typically occurring during infusion of the medicinal product and in association with hypersensitivity reactions have been reported. These were reversible upon discontinuation of the infusion. Cases of lacrimation with or without conjunctivitis, as cases of lacrimal duct obstruction resulting in excessive tearing have been rarely reported. Cases of cystoid macular oedema (CMO) have been reported in patients treated with docetaxel.

**Ear and labyrinth disorders**
Rare cases of ototoxicity, hearing impaired and/or hearing loss have been reported.

**Cardiac disorders**
Rare cases of myocardial infarction have been reported.
Ventricular arrhythmia including ventricular tachycardia (frequency not known), sometimes fatal, has been reported in patients treated with docetaxel in combination regimens including doxorubicin, 5-fluorouracil and/or cyclophosphamide.

**Vascular disorders**
Venous thromboembolic events have rarely been reported.

**Respiratory, thoracic and mediastinal disorders**
Acute respiratory distress syndrome and cases of interstitial pneumonia/ pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure sometimes fatal have rarely been reported. Rare cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.

**Gastrointestinal disorders**
Rare occurrences of dehydration as a consequence of gastrointestinal events, gastrointestinal perforation, colitis ischaemic, colitis and neutropenic enterocolitis have been reported. Rare cases of ileus and intestinal obstruction have been reported.

**Hepatobiliary disorders**
Very rare cases of hepatitis, sometimes fatal primarily in patients with pre-existing liver disorders, have been reported.
Skin and subcutaneous tissue disorders
Very rare cases of cutaneous lupus erythematosus and bullous eruptions such as erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis, have been reported with docetaxel. In some cases concomitant factors may have contributed to the development of these effects. Sclerodermal-like changes usually preceded by peripheral lymphoedema have been reported with docetaxel. Cases of permanent alopecia (frequency not known) have been reported.

Renal and urinary disorders
Renal insufficiency and renal failure have been reported. In about 20% of these cases there were no risk factors for acute renal failure such as concomitant nephrotoxic medicinal products and gastrointestinal disorders.

General disorders and administration site conditions
Radiation recall phenomena have rarely been reported. Fluid retention has not been accompanied by acute episodes of oliguria or hypotension. Dehydration and pulmonary oedema have rarely been reported.

Metabolism and nutrition disorders
Cases of electrolyte imbalance have been reported. Cases of hyponatraemia have been reported, mostly associated with dehydration, vomiting and pneumonia. Hypokalaemia, hypomagnesaemia, and hypocalcaemia were observed, usually in association with gastrointestinal disorders and in particular with diarrhoea.

Reporting of suspected adverse reactions
Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

4.9 Overdose

There were a few reports of overdose. There is no known antidote for docetaxel overdose. In case of overdose, the patient should be kept in a specialised unit and vital functions closely monitored. In cases of overdose, exacerbation of adverse events may be expected. The primary anticipated complications of overdose would consist of bone marrow suppression, peripheral neurotoxicity and mucositis. Patients should receive therapeutic G-CSF as soon as possible after discovery of overdose. Other appropriate symptomatic measures should be taken, as needed.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Taxanes, ATC Code: L01CD 02

Mechanism of action

Docetaxel is an antineoplastic agent which acts by promoting the assembly of tubulin into stable microtubules and inhibits their disassembly which leads to a marked decrease of free tubulin. The binding of docetaxel to microtubules does not alter the number of protofilaments.

Docetaxel has been shown in vitro to disrupt the microtubular network in cells which is essential for vital mitotic and interphase cellular functions.

Pharmacodynamic effects
Docetaxel was found to be cytotoxic in vitro against various murine and human tumour cell lines and against freshly excised human tumour cells in clonogenic assays. Docetaxel achieves high intracellular concentrations with a long cell residence time. In addition, docetaxel was found to be active on some but not all cell lines over expressing the p-glycoprotein which is encoded by the multidrug resistance gene. In vivo, docetaxel is schedule independent and has a broad spectrum of experimental antitumour activity against advanced murine and human grafted tumours.

Clinical efficacy and safety

Breast cancer

TAXOTERE in combination with doxorubicin and cyclophosphamide: adjuvant therapy

Patients with operable node-positive breast cancer (TAX 316)

Data from a multicenter open label randomized study support the use of docetaxel for the adjuvant treatment of patients with operable node-positive breast cancer and KPS ≥ 80%, between 18 and 70 years of age. After stratification according to the number of positive lymph nodes (1-3, 4+), 1491 patients were randomized to receive either docetaxel 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² (TAC arm), or doxorubicin 50 mg/m² followed by fluorouracil 500 mg/m² and cyclophosphamide 500 mg/m² (FAC arm). Both regimens were administered once every 3 weeks for 6 cycles. Docetaxel was administered as a 1-hour infusion, all other medicinal products were given as intravenous bolus on day one. G-CSF was administered as secondary prophylaxis to patients who experienced complicated neutropenia (febrile neutropenia, prolonged neutropenia, or infection). Patients on the TAC arm received antibiotic prophylaxis with ciprofloxacin 500 mg orally twice daily for 10 days starting on day 5 of each cycle, or equivalent. In both arms, after the last cycle of chemotherapy, patients with positive estrogen and/or progesterone receptors received tamoxifen 20 mg daily for up to 5 years. Adjuvant radiation therapy was prescribed according to guidelines in place at participating institutions and was given to 69% of patients who received TAC and 72% of patients who received FAC. Two interim analyses and one final analysis were performed. The first interim analysis was planned 3 years after the date when half of study enrollment was done. The second interim analysis was done after 400 DFS events had been recorded overall, which led to a median follow-up of 55 months. The final analysis was performed when all patients had reached their 10-year follow-up visit (unless they had a DFS event or were lost to follow-up before). Disease-free survival (DFS) was the primary efficacy endpoint and Overall survival (OS) was the secondary efficacy endpoint.

A final analysis was performed with an actual median follow up of 96 months. Significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. Incidence of relapses at 10 years was reduced in patients receiving TAC compared to those who received FAC (39% versus 45%, respectively) i.e. an absolute risk reduction by 6% (p = 0.0043). Overall survival at 10 years was also significantly increased with TAC compared to FAC (76% versus 69%, respectively) i.e. an absolute reduction of the risk of death by 7% (p = 0.002). As the benefit observed in patients with 4+ nodes was not statistically significant on DFS and OS, the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis.

Overall, the study results demonstrate a positive benefit risk ratio for TAC compared to FAC.
TAC-treated patient subsets according to prospectively defined major prognostic factors were analyzed:

<table>
<thead>
<tr>
<th>Patient subset</th>
<th>Number of patients</th>
<th>Hazard ratio*</th>
<th>95% CI</th>
<th>p =</th>
<th>Hazard ratio*</th>
<th>95% CI</th>
<th>p =</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of positive nodes</td>
<td>Overall</td>
<td>745</td>
<td>0.80</td>
<td>0.68-0.93</td>
<td>0.0043</td>
<td>0.74</td>
<td>0.61-0.90</td>
</tr>
<tr>
<td></td>
<td>1-3</td>
<td>467</td>
<td>0.72</td>
<td>0.58-0.91</td>
<td>0.0047</td>
<td>0.62</td>
<td>0.46-0.82</td>
</tr>
<tr>
<td></td>
<td>4+</td>
<td>278</td>
<td>0.87</td>
<td>0.70-1.09</td>
<td>0.2290</td>
<td>0.87</td>
<td>0.67-1.12</td>
</tr>
</tbody>
</table>

*a hazard ratio of less than 1 indicates that TAC is associated with a longer disease-free survival and overall survival compared to FAC.

 Patients with operable node-negative breast cancer eligible to receive chemotherapy (GEICAM 9805)

Data from a multicenter open label randomized trial support the use of TAXOTERE for the adjuvant treatment of patients with operable node-negative breast cancer eligible to receive chemotherapy. 1060 patients were randomized to receive either TAXOTERE 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² (539 patients in TAC arm), or doxorubicin 50 mg/m² followed by fluorouracil 500 mg/m² and cyclophosphamide 500 mg/m² (521 patients in FAC arm), as adjuvant treatment of operable node-negative breast cancer patients with high risk of relapse according to 1998 St. Gallen criteria (tumour size >2 cm and/or negative ER and PR and/or high histological/nuclear grade (grade 2 to 3) and/or age <35 years). Both regimens were administered once every 3 weeks for 6 cycles. TAXOTERE was administered as a 1-hour infusion, all other medicinal products were given intravenously on day 1 every three weeks. Primary prophylactic G-CSF was made mandatory in TAC arm after 230 patients were randomized. The incidence of Grade 4 neutropenia, febrile neutropenia and neutropenic infection was decreased in patients who received primary G-CSF prophylaxis (see section 4.8). In both arms, after the last cycle of chemotherapy, patients with ER+ and/or PgR+ tumours received tamoxifen 20 mg once a day for up to 5 years. Adjuvant radiation therapy was administered according to guidelines in place at participating institutions and was given to 57.3% of patients who received TAC and 51.2% of patients who received FAC.

One primary analysis and one updated analysis were performed. The primary analysis was done when all patients had a follow-up of greater than 5 years (median follow-up time of 77 months). The updated analysis was performed when all patients had reached their 10-year (median follow up time of 10 years and 5 months) follow-up visit (unless they had a DFS event or were lost to follow-up previously). Disease-free survival (DFS) was the primary efficacy endpoint and Overall survival (OS) was the secondary efficacy endpoint.

At the median follow-up time of 77 months, significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. TAC-treated patients had a 32% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.68, 95% CI (0.49-0.93), p = 0.01). At the median follow up time of 10 years and 5 months, TAC-treated patients had a 16.5% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.84, 95% CI (0.65-1.08), p=0.1646). DFS data were not statistically significant but were still associated with a positive trend in favour of TAC.

At the median follow-up time of 77 months, overall survival (OS) was longer in the TAC arm with TAC-treated patients having a 24% reduction in the risk of death compared to FAC (hazard ratio = 0.76, 95% CI (0.46-1.26), p = 0.29). However, the distribution of OS was not significantly different between the 2 groups. At the median follow up time of 10 years and 5 months, TAC-treated patients had a 9% reduction in the risk of death compared to FAC-treated patients (hazard ratio = 0.91, 95% CI (0.63-1.32)).
The survival rate was 93.7% in the TAC arm and 91.4% in the FAC arm, at the 8-year follow-up timepoint, and 91.3% in the TAC arm and 89% in the FAC arm, at the 10-year follow-up timepoint.

The positive benefit risk ratio for TAC compared to FAC remained unchanged.

TAC-treated patient subsets according to prospectively defined major prognostic factors were analysed in the primary analysis (at the median follow-up time of 77 months) (see table below):

Subset Analyses-Adjuvant Therapy in Patients with Node-negative Breast Cancer Study (Intent-to-Treat Analysis)

<table>
<thead>
<tr>
<th>Patient subset</th>
<th>Number of patients in TAC group</th>
<th>Hazard ratio*</th>
<th>95% CI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>539</td>
<td>0.68</td>
<td>0.49-0.93</td>
</tr>
<tr>
<td>Age category 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;50 years</td>
<td>260</td>
<td>0.67</td>
<td>0.43-1.05</td>
</tr>
<tr>
<td>≥50 years</td>
<td>279</td>
<td>0.67</td>
<td>0.43-1.05</td>
</tr>
<tr>
<td>Age category 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;35 years</td>
<td>42</td>
<td>0.31</td>
<td>0.11-0.89</td>
</tr>
<tr>
<td>≥35 years</td>
<td>497</td>
<td>0.73</td>
<td>0.52-1.01</td>
</tr>
<tr>
<td>Hormonal receptor status</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Negative</td>
<td>195</td>
<td>0.7</td>
<td>0.45-1.1</td>
</tr>
<tr>
<td>Positive</td>
<td>344</td>
<td>0.62</td>
<td>0.4-0.97</td>
</tr>
<tr>
<td>Tumour size</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≤2 cm</td>
<td>285</td>
<td>0.69</td>
<td>0.43-1.1</td>
</tr>
<tr>
<td>&gt;2 cm</td>
<td>254</td>
<td>0.68</td>
<td>0.45-1.04</td>
</tr>
<tr>
<td>Histological grade</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade 1 (includes grade not assessed)</td>
<td>64</td>
<td>0.79</td>
<td>0.24-2.6</td>
</tr>
<tr>
<td>Grade 2</td>
<td>216</td>
<td>0.77</td>
<td>0.46-1.3</td>
</tr>
<tr>
<td>Grade 3</td>
<td>259</td>
<td>0.59</td>
<td>0.39-0.9</td>
</tr>
<tr>
<td>Menopausal status</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Menopausal</td>
<td>285</td>
<td>0.64</td>
<td>0.40-1</td>
</tr>
<tr>
<td>Post-Menopausal</td>
<td>254</td>
<td>0.72</td>
<td>0.47-1.12</td>
</tr>
</tbody>
</table>

*a hazard ratio (TAC/FAC) of less than 1 indicates that TAC is associated with a longer disease free survival compared to FAC.

Exploratory subgroup analyses for disease-free survival for patients who meet the 2009 St. Gallen chemotherapy criteria – (ITT population) were performed and presented here below:

<table>
<thead>
<tr>
<th>Subgroups</th>
<th>TAC (n=539)</th>
<th>FAC (n=521)</th>
<th>Hazard ratio (TAC/FAC) (95% CI)</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting relative indication for chemotherapy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>18/214 (8.4%)</td>
<td>26/227 (11.5%)</td>
<td>0.796 (0.434 - 1.459)</td>
<td>0.4593</td>
</tr>
<tr>
<td>Yes</td>
<td>48/325 (14.8%)</td>
<td>69/294 (23.5%)</td>
<td>0.606 (0.42 - 0.877)</td>
<td>0.0072</td>
</tr>
</tbody>
</table>

TAC = docetaxel, doxorubicin and cyclophosphamide
FAC = 5-fluorouracil, doxorubicin and cyclophosphamide
CI = confidence interval; ER = estrogen receptor
The estimated hazard ratio was using Cox proportional hazard model with treatment group as the factor.

**TAXOTERE as single agent**

Two randomised phase III comparative studies, involving a total of 326 alkylating or 392 anthracycline failure metastatic breast cancer patients, have been performed with docetaxel at the recommended dose and regimen of 100 mg/m² every 3 weeks.

In alkylating-failure patients, docetaxel was compared to doxorubicin (75 mg/m² every 3 weeks). Without affecting overall survival time (docetaxel 15 months vs. doxorubicin 14 months, p = 0.38) or time to progression (docetaxel 27 weeks vs. doxorubicin 23 weeks, p = 0.54), docetaxel increased response rate (52% vs. 37%, p = 0.01) and shortened time to response (12 weeks vs. 23 weeks, p = 0.007). Three docetaxel patients (2%) discontinued the treatment due to fluid retention, whereas 15 doxorubicin patients (9%) discontinued due to cardiac toxicity (three cases of fatal congestive heart failure).

In anthracycline-failure patients, docetaxel was compared to the combination of mitomycin C and vinblastine (12 mg/m² every 6 weeks and 6 mg/m² every 3 weeks). Docetaxel increased response rate (33% vs. 12%, p < 0.0001), prolonged time to progression (19 weeks vs. 11 weeks, p = 0.0004) and prolonged overall survival (11 months vs. 9 months, p = 0.01).

During these two phase III studies, the safety profile of docetaxel was consistent with the safety profile observed in phase II studies (see section 4.8).

An open-label, multicenter, randomized phase III study was conducted to compare docetaxel monotherapy and paclitaxel in the treatment of advanced breast cancer in patients whose previous therapy should have included an anthracycline. A total of 449 patients were randomized to receive either docetaxel monotherapy 100 mg/m² as a 1 hour infusion or paclitaxel 175 mg/m² as a 3 hour infusion. Both regimens were administered every 3 weeks.

Without affecting the primary endpoint, overall response rate (32% vs 25%, p = 0.10), docetaxel prolonged median time to progression (24.6 weeks vs 15.6 weeks; p < 0.01) and median survival (15.3 months vs 12.7 months; p = 0.03). More grade 3/4 adverse events were observed for docetaxel monotherapy (55.4%) compared to paclitaxel (23.0%).

**TAXOTERE in combination with doxorubicin**

One large randomized phase III study, involving 429 previously untreated patients with metastatic disease, has been performed with doxorubicin (50 mg/m²) in combination with docetaxel (75 mg/m²) (AT arm) versus doxorubicin (60 mg/m²) in combination with cyclophosphamide (600 mg/m²) (AC arm). Both regimens were administered on day 1 every 3 weeks.

- Time to progression (TTP) was significantly longer in the AT arm versus AC arm, p = 0.0138. The median TTP was 37.3 weeks (95% CI: 33.4 - 42.1) in AT arm and 31.9 weeks (95% CI: 27.4 - 36.0) in AC arm.
- Overall response rate (ORR) was significantly higher in the AT arm versus AC arm, p = 0.009. The ORR was 59.3% (95% CI: 52.8 - 65.9) in AT arm versus 46.5% (95% CI: 39.8 - 53.2) in AC arm.

In this study, AT arm showed a higher incidence of severe neutropenia (90% versus 68.6%), febrile neutropenia (33.3% versus 10%), infection (8% versus 2.4%), diarrhoea (7.5% versus 1.4%), asthenia (8.5% versus 2.4%), and pain (2.8% versus 0%) than AC arm. On the other hand, AC arm showed a higher incidence of severe anemia (15.8% versus 8.5%) than AT arm, and, in addition, a higher incidence of severe cardiac toxicity: congestive heart failure (3.8% versus 2.8%), absolute LVEF.
decrease ≥ 20% (13.1% versus 6.1%), absolute LVEF decrease ≥ 30% (6.2% versus 1.1%). Toxic deaths occurred in 1 patient in the AT arm (congestive heart failure) and in 4 patients in the AC arm (1 due to septic shock and 3 due to congestive heart failure).

In both arms, quality of life measured by the EORTC questionnaire was comparable and stable during treatment and follow-up.

**TAXOTERE in combination with trastuzumab**

Docetaxel in combination with trastuzumab was studied for the treatment of patients with metastatic breast cancer whose tumours over express HER2, and who previously had not received chemotherapy for metastatic disease. One hundred eighty six patients were randomized to receive docetaxel (100 mg/m²) with or without trastuzumab; 60% of patients received prior anthracycline-based adjuvant chemotherapy. Docetaxel plus trastuzumab was efficacious in patients whether or not they had received prior adjuvant anthracyclines. The main test method used to determine HER2 positivity in this pivotal study was immunohistochemistry (IHC). A minority of patients were tested using fluorescence in-situ hybridization (FISH). In this study, 87% of patients had disease that was IHC 3+, and 95% of patients entered had disease that was IHC 3+ and/or FISH positive. Efficacy results are summarized in the following table:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Docetaxel plus trastuzumab</th>
<th>Docetaxel</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n = 92</td>
<td>n = 94</td>
</tr>
<tr>
<td>Response rate (95% CI)</td>
<td>61% (50-71)</td>
<td>34% (25-45)</td>
</tr>
<tr>
<td>Median duration of response (months) (95% CI)</td>
<td>11.4 (9.2-15.0)</td>
<td>5.1 (4.4-6.2)</td>
</tr>
<tr>
<td>Median TTP (months) (95% CI)</td>
<td>10.6 (7.6-12.9)</td>
<td>5.7 (5.0-6.5)</td>
</tr>
<tr>
<td>Median survival (months) (95% CI)</td>
<td>30.5 (26.8-ne)</td>
<td>22.1 (17.6-28.9)</td>
</tr>
</tbody>
</table>

TTP = time to progression; “ne” indicates that it could not be estimated or it was not yet reached.

1 Full analysis set (intent-to-treat)

2 Estimated median survival

**TAXOTERE in combination with capecitabine**

Data from one multicenter, randomised, controlled phase III clinical study support the use of docetaxel in combination with capecitabine for treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy, including an anthracycline. In this study, 255 patients were randomised to treatment with docetaxel (75 mg/m² as a 1 hour intravenous infusion every 3 weeks) and capecitabine (1250 mg/m² twice daily for 2 weeks followed by 1-week rest period). 256 patients were randomised to treatment with docetaxel alone (100 mg/m² as a 1 hour intravenous infusion every 3 weeks). Survival was superior in the docetaxel + capecitabine combination arm (p = 0.0126). Median survival was 442 days (docetaxel + capecitabine) vs. 352 days (docetaxel alone). The overall objective response rates in the all-randomised population (investigator assessment) were 41.6% (docetaxel + capecitabine) vs. 29.7% (docetaxel alone); p = 0.0058. Time to progressive disease was superior in the docetaxel + capecitabine combination arm (p < 0.0001). The median time to progression was 186 days (docetaxel + capecitabine) vs. 128 days (docetaxel alone).

**Non-small cell lung cancer**

Patients previously treated with chemotherapy with or without radiotherapy

In a phase III study, in previously treated patients, time to progression (12.3 weeks versus 7 weeks) and overall survival were significantly longer for docetaxel at 75 mg/m² compared to Best Supportive Care. The 1-year survival rate was also significantly longer in docetaxel (40%) versus BSC (16%).

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There was less use of morphinic analgesic (p < 0.01), non-morphinic analgesics (p < 0.01), other disease-related medications (p = 0.06) and radiotherapy (p < 0.01) in patients treated with docetaxel at 75 mg/m² compared to those with BSC.

The overall response rate was 6.8% in the evaluable patients, and the median duration of response was 26.1 weeks.

**TAXOTERE in combination with platinum agents in chemotherapy-naïve patients**

In a phase III study, 1218 patients with unresectable stage IIIB or IV NSCLC, with KPS of 70% or greater, and who did not receive previous chemotherapy for this condition, were randomised to either docetaxel (T) 75 mg/m² as a 1 hour infusion immediately followed by cisplatin (Cis) 75 mg/m² over 30-60 minutes every 3 weeks (TCis), docetaxel 75 mg/m² as a 1 hour infusion in combination with carboplatin (AUC 6 mg/ml.min) over 30-60 minutes every 3 weeks, or vinorelbine (V) 25 mg/m² administered over 6-10 minutes on days 1, 8, 15, 22 followed by cisplatin 100 mg/m² administered on day 1 of cycles repeated every 4 weeks (VCis).

Survival data, median time to progression and response rates for two arms of the study are illustrated in the following table:

<table>
<thead>
<tr>
<th></th>
<th>TCis n = 408</th>
<th>VCis n = 404</th>
<th>Statistical analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall survival</td>
<td></td>
<td></td>
<td><strong>Statistical analysis</strong></td>
</tr>
<tr>
<td>(Primary end-point):</td>
<td></td>
<td></td>
<td><strong>Overall survival</strong></td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>11.3</td>
<td>10.1</td>
<td>Hazard ratio: 1.122 [97.2% CI: 0.937; 1.342]*</td>
</tr>
<tr>
<td>1-year Survival (%)</td>
<td>46</td>
<td>41</td>
<td>Treatment difference: 5.4% [95% CI: -1.1; 12.0]</td>
</tr>
<tr>
<td>2-year Survival (%)</td>
<td>21</td>
<td>14</td>
<td>Treatment difference: 6.2% [95% CI: 0.2; 12.3]</td>
</tr>
<tr>
<td>Median time to progression (weeks):</td>
<td>22.0</td>
<td>23.0</td>
<td>Hazard ratio: 1.032 [95% CI: 0.876; 1.216]</td>
</tr>
<tr>
<td>Overall response rate (%):</td>
<td>31.6</td>
<td>24.5</td>
<td>Treatment difference: 7.1% [95% CI: 0.7; 13.5]</td>
</tr>
</tbody>
</table>

*: Corrected for multiple comparisons and adjusted for stratification factors (stage of disease and region of treatment), based on evaluable patient population.

Secondary end-points included change of pain, global rating of quality of life by EuroQoL-5D, Lung Cancer Symptom Scale, and changes in Karnosky performance status. Results on these end-points were supportive of the primary end-points results.

For docetaxel/carboplatin combination, neither equivalent nor non-inferior efficacy could be proven compared to the reference treatment combination VCis.

**Prostate cancer**

The safety and efficacy of docetaxel in combination with prednisone or prednisolone in patients with hormone refractory metastatic prostate cancer were evaluated in a randomized multicenter phase III study. A total of 1006 patients with KPS ≥ 60 were randomized to the following treatment groups:

- Docetaxel 75 mg/m² every 3 weeks for 10 cycles.
- Docetaxel 30 mg/m² administered weekly for the first 5 weeks in a 6 week cycle for 5 cycles.
- Mitoxantrone 12 mg/m² every 3 weeks for 10 cycles.

All 3 regimens were administered in combination with prednisone or prednisolone 5 mg twice daily, continuously.
Patients who received docetaxel every three weeks demonstrated significantly longer overall survival compared to those treated with mitoxantrone. The increase in survival seen in the docetaxel weekly arm was not statistically significant compared to the mitoxantrone control arm. Efficacy endpoints for the docetaxel arms versus the control arm are summarized in the following table:

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel every 3 weeks</th>
<th>Docetaxel every week</th>
<th>Mitoxantrone every 3 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of patients</td>
<td>335</td>
<td>334</td>
<td>337</td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>18.9</td>
<td>17.4</td>
<td>16.5</td>
</tr>
<tr>
<td>95% CI</td>
<td>(17.0-21.2)</td>
<td>(15.7-19.0)</td>
<td>(14.4-18.6)</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>0.761</td>
<td>0.912</td>
<td>--</td>
</tr>
<tr>
<td>95% CI</td>
<td>(0.619-0.936)</td>
<td>(0.747-1.113)</td>
<td>--</td>
</tr>
<tr>
<td>p-value*</td>
<td>0.0094</td>
<td>0.3624</td>
<td>--</td>
</tr>
</tbody>
</table>

| Number of patients     | 291                     | 282                  | 300                       |
| PSA** response rate (%)| 45.4                    | 47.9                 | 31.7                      |
| 95% CI                 | (39.5-51.3)              | (41.9-53.9)          | (26.4-37.3)               |
| p-value*               | 0.0005                  | <0.0001              | --                        |

| Number of patients     | 153                     | 154                  | 157                       |
| Pain response rate (%)  | 34.6                    | 31.2                 | 21.7                      |
| 95% CI                 | (27.1-42.7)              | (24.0-39.1)          | (15.5-28.9)               |
| p-value*               | 0.0107                  | 0.0798               | --                        |

| Number of patients     | 141                     | 134                  | 137                       |
| Tumour response rate (%)| 12.1                    | 8.2                  | 6.6                       |
| 95% CI                 | (7.2-18.6)               | (4.2-14.2)           | (3.0-12.1)                |
| p-value*               | 0.1112                  | 0.5853               | --                        |

*Stratified log rank test
*Threshold for statistical significance = 0.0175
**PSA: Prostate-Specific Antigen

Given the fact that docetaxel every week presented a slightly better safety profile than docetaxel every 3 weeks, it is possible that certain patients may benefit from docetaxel every week.

No statistical differences were observed between treatment groups for Global Quality of Life.

**Gastric adenocarcinoma**

A multicenter, open-label, randomized study was conducted to evaluate the safety and efficacy of docetaxel for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction, who had not received prior chemotherapy for metastatic disease. A total of 445 patients with KPS > 70 were treated with either docetaxel (T) (75 mg/m² on day 1) in combination with cisplatin (C) (75 mg/m² on day 1) and 5-fluorouracil (F) (750 mg/m² per day for 5 days) or cisplatin (100 mg/m² on day 1) and 5-fluorouracil (1000 mg/m² per day for 5 days). The length of a treatment cycle was 3 weeks for the TCF arm and 4 weeks for the CF arm. The median number of cycles administered per patient was 6 (with a range of 1-16) for the TCF arm compared to 4 (with a range of 1-12) for the CF arm. Time to progression (TTP) was the primary endpoint. The risk reduction of progression was 32.1% and was associated with a significantly longer TTP (p = 0.0004) in favor of the TCF arm. Overall survival was also significantly longer (p = 0.0201) in favor of the TCF arm with a risk reduction of mortality of 22.7%. Efficacy results are summarized in the following table:
Efficacy of docetaxel in the treatment of patients with gastric adenocarcinoma

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>TCF n = 221</th>
<th>CF n = 224</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median TTP (months)</td>
<td>5.6</td>
<td>3.7</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(4.86-5.91)</td>
<td>(3.45-4.47)</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>1.473</td>
<td>0.0004</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(1.189-1.825)</td>
<td></td>
</tr>
<tr>
<td>*p-value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>9.2</td>
<td>8.6</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(8.38-10.58)</td>
<td>(7.16-9.46)</td>
</tr>
<tr>
<td>2-year estimate (%)</td>
<td>18.4</td>
<td>8.8</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>1.293</td>
<td>0.0201</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(1.041-1.606)</td>
<td></td>
</tr>
<tr>
<td>*p-value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall response rate (CR+PR) (%)</td>
<td>36.7</td>
<td>25.4</td>
</tr>
<tr>
<td>p-value</td>
<td></td>
<td>0.0106</td>
</tr>
<tr>
<td>Progressive disease as best overall Response (%)</td>
<td>16.7</td>
<td>25.9</td>
</tr>
</tbody>
</table>

*Unstratified logrank test

Subgroup analyses across age, gender and race consistently favored the TCF arm compared to the CF arm.

A survival update analysis conducted with a median follow-up time of 41.6 months no longer showed a statistically significant difference although always in favour of the TCF regimen and showed that the benefit of TCF over CF is clearly observed between 18 and 30 months of follow up.

Overall, quality of life (QoL) and clinical benefit results consistently indicated improvement in favor of the TCF arm. Patients treated with TCF had a longer time to 5% definitive deterioration of global health status on the QLQ-C30 questionnaire (p = 0.0121) and a longer time to definitive worsening of Karnofsky performance status (p = 0.0088) compared to patients treated with CF.

**Head and neck cancer**

- Induction chemotherapy followed by radiotherapy (TAX323)

The safety and efficacy of docetaxel in the induction treatment of patients with squamous cell carcinoma of the head and neck (SCCHN) was evaluated in a phase III, multicenter, open-label, randomized study (TAX323). In this study, 358 patients with inoperable locally advanced SCCHN, and WHO performance status 0 or 1, were randomized to one of two treatment arms. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² followed by cisplatin (P) 75 mg/m² followed by 5-fluorouracil (F) 750 mg/m² per day as a continuous infusion for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (≥ 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks and a maximal interval of 7 weeks, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines for 7 weeks (TPF/RT). Patients on the comparator arm received cisplatin (P) 100 mg/m² followed by 5-fluorouracil (F) 1000 mg/m² per day for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (≥ 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks and a maximal interval of 7 weeks, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines for 7 weeks (PF/RT). Locoregional therapy with radiation was delivered either with a conventional fraction (1.8 Gy - 2.0 Gy once a day, 5 days per week for a total dose of 66 to 70 Gy), or accelerated/hyperfractionated regimens of radiation therapy (twice a day, with a minimum interfraction interval of 6 hours, 5 days per week). A total of 70 Gy was recommended for accelerated regimens and 74 Gy for hyperfractionated schemes. Surgical resection was allowed following chemotherapy, before or after radiotherapy. Patients on the TPF arm received antibiotic prophylaxis...
with ciprofloxacin 500 mg orally twice daily for 10 days starting on day 5 of each cycle, or equivalent. The primary endpoint in this study, progression-free survival (PFS), was significantly longer in the TPF arm compared to the PF arm, \( p = 0.0042 \) (median PFS: 11.4 vs. 8.3 months respectively) with an overall median follow up time of 33.7 months. Median overall survival was also significantly longer in favor of the TPF arm compared to the PF arm (median OS: 18.6 vs. 14.5 months respectively) with a 28% risk reduction of mortality, \( p = 0.0128 \). Efficacy results are presented in the table below:

**Efficacy of docetaxel in the induction treatment of patients with inoperable locally advanced SCCHN (Intent-to-Treat Analysis)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel + Cis + 5-FU</th>
<th>Cis + 5-FU</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Endpoint</strong></td>
<td><strong>Docetaxel + Cis + 5-FU</strong></td>
<td><strong>Cis + 5-FU</strong></td>
</tr>
<tr>
<td><strong>n = 177</strong></td>
<td><strong>n = 181</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Median progression free survival (months)</strong></td>
<td>11.4 (10.1-14.0)</td>
<td>8.3 (7.4-9.1)</td>
</tr>
<tr>
<td><strong>Adjusted hazard ratio</strong></td>
<td>0.70 (0.55-0.89)</td>
<td></td>
</tr>
<tr>
<td><strong>(95% CI)</strong></td>
<td>(*p)-value 0.0042</td>
<td></td>
</tr>
<tr>
<td><strong>Median survival (months)</strong></td>
<td>18.6 (15.7-24.0)</td>
<td>14.5 (11.6-18.7)</td>
</tr>
<tr>
<td><strong>Hazard ratio</strong></td>
<td>0.72 (0.56-0.93)</td>
<td></td>
</tr>
<tr>
<td><strong>(95% CI)</strong></td>
<td>(**p)-value 0.0128</td>
<td></td>
</tr>
<tr>
<td><strong>Best overall response to chemotherapy (%)</strong></td>
<td>67.8 (60.4-74.6)</td>
<td>53.6 (46.0-61.0)</td>
</tr>
<tr>
<td><strong>(95% CI)</strong></td>
<td>(***p)-value 0.006</td>
<td></td>
</tr>
<tr>
<td><strong>Best overall response to study treatment</strong></td>
<td>72.3 (65.1-78.8)</td>
<td>58.6 (51.0-65.8)</td>
</tr>
<tr>
<td><strong>[chemotherapy +/- radiotherapy] (%)</strong></td>
<td>(***p)-value 0.006</td>
<td></td>
</tr>
<tr>
<td><strong>Median duration of response to chemotherapy ± radiotherapy (months)</strong></td>
<td>(n = 128) 15.7 (13.4-24.6)</td>
<td>(n = 106) 11.7 (10.2-17.4)</td>
</tr>
<tr>
<td><strong>Hazard ratio</strong></td>
<td>0.72 (0.52-0.99)</td>
<td></td>
</tr>
<tr>
<td><strong>(95% CI)</strong></td>
<td>(**p)-value 0.0457</td>
<td></td>
</tr>
</tbody>
</table>

A hazard ratio of less than 1 favors docetaxel + cisplatin + 5-FU
*\(p\)-value (adjustment for Primary tumour site, T and N clinical stages and PSWHO)
**Logrank test
***Chi-square test

**Quality of life parameters**
Patients treated with TPF experienced significantly less deterioration of their Global health score compared to those treated with PF (\( p = 0.01 \), using the EORTC QLQ-C30 scale).

**Clinical benefit parameters**
The performance status scale, for head and neck (PSS-HN) subscales designed to measure understandability of speech, ability to eat in public, and normalcy of diet, was significantly in favor of TPF as compared to PF.
Median time to first deterioration of WHO performance status was significantly longer in the TPF arm compared to PF. Pain intensity score improved during treatment in both groups indicating adequate pain management.
• Induction chemotherapy followed by chemoradiotherapy (TAX324)

The safety and efficacy of docetaxel in the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck (SCCHN) was evaluated in a randomized, multicenter open-label, phase III study (TAX324). In this study, 501 patients, with locally advanced SCCHN, and a WHO performance status of 0 or 1, were randomized to one of two arms. The study population comprised patients with technically unresectable disease, patients with low probability of surgical cure and patients aiming at organ preservation. The efficacy and safety evaluation solely addressed survival endpoints and the success of organ preservation was not formally addressed. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² by intravenous infusion on day 1 followed by cisplatin (P) 100 mg/m² administered as a 30-minute to three-hour intravenous infusion, followed by the continuous intravenous infusion of 5-fluorouracil (F) 1000 mg/m²/day from day 1 to day 4. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive chemoradiotherapy (CRT) as per protocol (TPF/CRT). Patients on the comparator arm received cisplatin (P) 100 mg/m² as a 30-minute to three-hour intravenous infusion on day 1 followed by the continuous intravenous infusion of 5-fluorouracil (F) 1000 mg/m²/day from day 1 to day 5. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive CRT as per protocol (PF/CRT).

Patients in both treatment arms were to receive 7 weeks of CRT following induction chemotherapy with a minimum interval of 3 weeks and no later than 8 weeks after start of the last cycle (day 22 to day 56 of last cycle). During radiotherapy, carboplatin (AUC 1.5) was given weekly as a one-hour intravenous infusion for a maximum of 7 doses. Radiation was delivered with megavoltage equipment using once daily fractionation (2 Gy per day, 5 days per week for 7 weeks, for a total dose of 70-72 Gy). Surgery on the primary site of disease and/or neck could be considered at anytime following completion of CRT. All patients on the docetaxel-containing arm of the study received prophylactic antibiotics. The primary efficacy endpoint in this study, overall survival (OS) was significantly longer (log-rank test, p = 0.0058) with the docetaxel-containing regimen compared to PF (median OS: 70.6 versus 30.1 months respectively), with a 30% risk reduction in mortality compared to PF (hazard ratio (HR) = 0.70, 95% confidence interval (CI) = 0.54-0.90) with an overall median follow up time of 41.9 months. The secondary endpoint, PFS, demonstrated a 29% risk reduction of progression or death and a 22 month improvement in median PFS (35.5 months for TPF and 13.1 for PF). This was also statistically significant with an HR of 0.71; 95% CI 0.56-0.90; log-rank test p = 0.004. Efficacy results are presented in the table below:
Efficacy of docetaxel in the induction treatment of patients with locally advanced SCCHN (Intent-to-Treat Analysis)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel + Cis + 5-FU</th>
<th>Cis + 5-FU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n = 255</td>
<td>n = 246</td>
</tr>
<tr>
<td>Median overall survival (months) (95% CI)</td>
<td>70.6 (49.0-NA)</td>
<td>30.1 (20.9-51.5)</td>
</tr>
<tr>
<td>Hazard ratio:</td>
<td>0.70 (0.54-0.90)</td>
<td>0.0058</td>
</tr>
<tr>
<td>*p-value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median PFS (months) (95% CI)</td>
<td>35.5 (19.3-NA)</td>
<td>13.1 (10.6 - 20.2)</td>
</tr>
<tr>
<td>Hazard ratio:</td>
<td>0.71 (0.56 - 0.90)</td>
<td>0.004</td>
</tr>
<tr>
<td>**p-value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Best overall response (CR + PR) to chemotherapy (%) (95% CI)</td>
<td>71.8 (65.8-77.2)</td>
<td>64.2 (57.9-70.2)</td>
</tr>
<tr>
<td>***p-value</td>
<td>0.070</td>
<td></td>
</tr>
<tr>
<td>Best overall response (CR + PR) to study treatment [chemotherapy +/- chemoradiotherapy] (%) (95% CI)</td>
<td>76.5 (70.8-81.5)</td>
<td>71.5 (65.5-77.1)</td>
</tr>
<tr>
<td>***p-value</td>
<td>0.209</td>
<td></td>
</tr>
</tbody>
</table>

A hazard ratio of less than 1 favors docetaxel + cisplatin + fluorouracil
*un-adjusted log-rank test
**un-adjusted log-rank test, not adjusted for multiple comparisons
***Chi square test, not adjusted for multiple comparisons
NA-not applicable

Paediatric population

The European Medicines Agency has waived the obligation to submit the results of studies with TAXOTERE in all subsets of the paediatric population in breast cancer, non-small cell lung cancer, prostated cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma (see section 4.2 for information on paediatric use).

5.2 Pharmacokinetic properties

Absorption

The pharmacokinetics of docetaxel have been evaluated in cancer patients after administration of 20-115 mg/m² in phase I studies. The kinetic profile of docetaxel is dose independent and consistent with a three-compartment pharmacokinetic model with half lives for the α, β and γ phases of 4 min, 36 min and 11.1 h, respectively. The late phase is due, in part, to a relatively slow efflux of docetaxel from the peripheral compartment.

Distribution

Following the administration of a 100 mg/m² dose given as a one-hour infusion a mean peak plasma level of 3.7 µg/ml was obtained with a corresponding AUC of 4.6 h.µg/ml. Mean values for total body clearance and steady-state volume of distribution were 21 l/h/m² and 113 l, respectively. Inter individual variation in total body clearance was approximately 50%. Docetaxel is more than 95% bound to plasma proteins.
Elimination

A study of $^{14}$C-docetaxel has been conducted in three cancer patients. Docetaxel was eliminated in both the urine and faeces following cytochrome P450-mediated oxidative metabolism of the tert-butyl ester group, within seven days, the urinary and faecal excretion accounted for about 6% and 75% of the administered radioactivity, respectively. About 80% of the radioactivity recovered in faeces is excreted during the first 48 hours as one major inactive metabolite and 3 minor inactive metabolites and very low amounts of unchanged medicinal product.

Special populations

Age and gender
A population pharmacokinetic analysis has been performed with docetaxel in 577 patients. Pharmacokinetic parameters estimated by the model were very close to those estimated from phase I studies. The pharmacokinetics of docetaxel were not altered by the age or sex of the patient.

Hepatic impairment
In a small number of patients ($n = 23$) with clinical chemistry data suggestive of mild to moderate liver function impairment (ALT, AST $\geq 1.5$ times the ULN associated with alkaline phosphatase $\geq 2.5$ times the ULN), total clearance was lowered by 27% on average (see section 4.2).

Fluid retention
Docetaxel clearance was not modified in patients with mild to moderate fluid retention and there are no data available in patients with severe fluid retention.

Combination therapy

Doxorubicin
When used in combination, docetaxel does not influence the clearance of doxorubicin and the plasma levels of doxorubicinol (a doxorubicin metabolite). The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their coadministration.

Capecitabine
Phase I study evaluating the effect of capecitabine on the pharmacokinetics of docetaxel and vice versa showed no effect by capecitabine on the pharmacokinetics of docetaxel ($C_{\text{max}}$ and $\text{AUC}$) and no effect by docetaxel on the pharmacokinetics of a relevant capecitabine metabolite 5'-DFUR.

Cisplatin
Clearance of docetaxel in combination therapy with cisplatin was similar to that observed following monotherapy. The pharmacokinetic profile of cisplatin administered shortly after docetaxel infusion is similar to that observed with cisplatin alone.

Cisplatin and 5-fluorouracil
The combined administration of docetaxel, cisplatin and 5-fluorouracil in 12 patients with solid tumours had no influence on the pharmacokinetics of each individual medicinal product.

Prednisone and dexamethasone
The effect of prednisone on the pharmacokinetics of docetaxel administered with standard dexamethasone premedication has been studied in 42 patients.

Prednisone
No effect of prednisone on the pharmacokinetics of docetaxel was observed.

5.3 Preclinical safety data

The carcinogenic potential of docetaxel has not been studied.
Docetaxel has been shown to be mutagenic in the *in vitro* micronucleus and chromosome aberration test in CHO-K1 cells and in the *in vivo* micronucleus test in the mouse. However, it did not induce mutagenicity in the Ames test or the CHO/HGPRT gene mutation assay. These results are consistent with the pharmacological activity of docetaxel.

Undesirable effects on the testis observed in rodent toxicity studies suggest that docetaxel may impair male fertility.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Concentrate vial:
- polysorbate 80
- citric acid.

Solvent vial:
- ethanol 95%
- water for injections.

6.2 Incompatibilities

This medicinal product must not be mixed with other medicinal products except those mentioned in section 6.6.

6.3 Shelf-life

- 2 years.
- Premix solution: The premix solution contains 10 mg/ml docetaxel and should be used immediately after preparation. However, the chemical and physical stability of the premix solution has been demonstrated for 8 hours when stored either between 2°C and 8°C or at room temperature (below 25°C).
- Infusion solution: The infusion solution should be used within 4 hours at room temperature (below 25°C).

6.4 Special precautions for storage

Do not store above 25°C or below 2°C.
Store in the original package in order to protect from light.
For storage conditions of the diluted medicinal product, see section 6.3.

6.5 Nature and contents of container

Each blister pack contains:
- one single-dose vial of concentrate and,
- one single-dose vial of solvent.

**TAXOTERE 20 mg/0.5 ml concentrate for solution for infusion vial**

7 ml clear glass Type I vial with a green flip-off cap.

This vial contains 0.5 ml of a 40 mg/ml solution of docetaxel in polysorbate 80 (fill volume: 24.4 mg/0.61 ml). This fill volume has been established during the development of TAXOTERE to compensate for liquid loss during preparation of the premix due to foaming, adhesion to the walls of the vial and "dead-volume". This overfill ensures that after dilution with the entire contents of the
accompanying solvent for TAXOTERE vial, there is a minimal extractable premix volume of 2 ml containing 10 mg/ml docetaxel which corresponds to the labelled amount of 20 mg/0.5 ml per vial.

Solvent vial

7 ml clear glass Type I vial with a transparent colourless flip-off cap.

Solvent vial contains 1.5 ml of a 13% w/w solution of ethanol 95% in water for injections (fill volume: 1.98 ml). The addition of the entire contents of the solvent vial to the contents of the TAXOTERE 20 mg/0.5 ml concentrate for solution for infusion vial ensures a premix concentration of 10 mg/ml docetaxel.

6.6 Special precautions for disposal and other handling

TAXOTERE is an antineoplastic agent and, as with other potentially toxic compounds, caution should be exercised when handling it and preparing TAXOTERE solutions. The use of gloves is recommended.

If TAXOTERE concentrate, premix solution or infusion solution should come into contact with skin, wash immediately and thoroughly with soap and water. If TAXOTERE concentrate, premix solution or infusion solution should come into contact with mucous membranes, wash immediately and thoroughly with water.

Preparation for the intravenous administration

a) Preparation of the TAXOTERE premix solution (10 mg docetaxel/ml)

If the vials are stored under refrigeration, allow the required number of TAXOTERE boxes to stand at room temperature (below 25°C) for 5 minutes.

Using a syringe fitted with a needle, aseptically withdraw the entire contents of the solvent for TAXOTERE vial by partially inverting the vial.

Inject the entire contents of the syringe into the corresponding TAXOTERE vial.

Remove the entire contents of the syringe into the corresponding TAXOTERE vial.

Inject the required premix volume into a 250 ml infusion bag or bottle containing either 5% glucose solution or sodium chloride 9 mg/ml (0.9%) solution for infusion.
If a dose greater than 200 mg of docetaxel is required, use a larger volume of the infusion vehicle so that a concentration of 0.74 mg/ml docetaxel is not exceeded.

Mix the infusion bag or bottle manually using a rocking motion.

The TAXOTERE infusion solution should be used within 4 hours and should be aseptically administered as a 1-hour infusion under room temperature (below 25°C) and normal lighting conditions.

As with all parenteral products, TAXOTERE premix solution and infusion solution should be visually inspected prior to use, solutions containing a precipitate should be discarded.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Aventis Pharma S.A., 20 avenue Raymond Aron, 92165 Antony Cedex, France

8. MARKETING AUTHORISATION NUMBER

EU/1/95/002/001

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 27 November 1995
Date of latest renewal: 27 November 2005

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.
1. NAME OF THE MEDICINAL PRODUCT

TAXOTERE 80 mg/2 ml concentrate and solvent for solution for infusion

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each single-dose vial of TAXOTERE 80 mg/2 ml concentrate contains docetaxel (as trihydrate) corresponding to 80 mg of docetaxel (anhydrous). The viscous solution contains 40 mg/ml docetaxel (anhydrous).

Excipient with known effect:
Each single-dose vial of solvent contains 13% (w/w) ethanol 95% v/v in water for injection (932 mg of ethanol 95% v/v).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Concentrate and solvent for solution for infusion.
The concentrate is a clear viscous, yellow to brown-yellow solution.
The solvent is a colourless solution.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Breast cancer

TAXOTERE in combination with doxorubicin and cyclophosphamide is indicated for the adjuvant treatment of patients with:

- operable node-positive breast cancer
- operable node-negative breast cancer

For patients with operable node-negative breast cancer, adjuvant treatment should be restricted to patients eligible to receive chemotherapy according to internationally established criteria for primary therapy of early breast cancer (see section 5.1).

TAXOTERE in combination with doxorubicin is indicated for the treatment of patients with locally advanced or metastatic breast cancer who have not previously received cytotoxic therapy for this condition.

TAXOTERE monotherapy is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic therapy. Previous chemotherapy should have included an anthracycline or an alkylating agent.

TAXOTERE in combination with trastuzumab is indicated for the treatment of patients with metastatic breast cancer whose tumours over express HER2 and who previously have not received chemotherapy for metastatic disease.

TAXOTERE in combination with capecitabine is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy. Previous therapy should have included an anthracycline.
Non-small cell lung cancer

TAXOTERE is indicated for the treatment of patients with locally advanced or metastatic non-small cell lung cancer after failure of prior chemotherapy.

TAXOTERE in combination with cisplatin is indicated for the treatment of patients with unresectable, locally advanced or metastatic non-small cell lung cancer, in patients who have not previously received chemotherapy for this condition.

Prostate cancer

TAXOTERE in combination with prednisone or prednisolone is indicated for the treatment of patients with hormone refractory metastatic prostate cancer.

Gastric adenocarcinoma

TAXOTERE in combination with cisplatin and 5-fluorouracil is indicated for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction, who have not received prior chemotherapy for metastatic disease.

Head and neck cancer

TAXOTERE in combination with cisplatin and 5-fluorouracil is indicated for the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck.

4.2 Posology and method of administration

The use of docetaxel should be confined to units specialised in the administration of cytotoxic chemotherapy and it should only be administered under the supervision of a physician qualified in the use of anticancer chemotherapy (see section 6.6).

Recommended dose

For breast, non-small cell lung, gastric, and head and neck cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day (e.g. 8 mg BID) for 3 days starting 1 day prior to docetaxel administration, unless contraindicated, can be used (see section 4.4). Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities.

For prostate cancer, given the concurrent use of prednisone or prednisolone the recommended premedication regimen is oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the docetaxel infusion (see section 4.4).

Docetaxel is administered as a one-hour infusion every three weeks.

Breast cancer

In the adjuvant treatment of operable node-positive and node-negative breast cancer, the recommended dose of docetaxel is 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² every 3 weeks for 6 cycles (TAC regimen) (see also Dose adjustments during treatment). For the treatment of patients with locally advanced or metastatic breast cancer, the recommended dose of docetaxel is 100 mg/m² in monotherapy. In first-line treatment, docetaxel 75 mg/m² is given in combination therapy with doxorubicin (50 mg/m²).

In combination with trastuzumab the recommended dose of docetaxel is 100 mg/m² every three weeks, with trastuzumab administered weekly. In the pivotal study the initial docetaxel infusion was started the day following the first dose of trastuzumab. The subsequent docetaxel doses were administered immediately after completion of the trastuzumab infusion, if the preceding dose of trastuzumab was well tolerated. For trastuzumab dose and administration, see trastuzumab summary of product characteristics.
In combination with capecitabine, the recommended dose of docetaxel is 75 mg/m² every three weeks, combined with capecitabine at 1250 mg/m² twice daily (within 30 minutes after a meal) for 2 weeks followed by a 1-week rest period. For capecitabine dose calculation according to body surface area, see capecitabine summary of product characteristics.

**Non-small cell lung cancer**
In chemotherapy naïve patients treated for non-small cell lung cancer, the recommended dose regimen is docetaxel 75 mg/m² immediately followed by cisplatin 75 mg/m² over 30-60 minutes. For treatment after failure of prior platinum-based chemotherapy, the recommended dose is 75 mg/m² as a single agent.

**Prostate cancer**
The recommended dose of docetaxel is 75 mg/m². Prednisone or prednisolone 5 mg orally twice daily is administered continuously (see section 5.1).

**Gastric adenocarcinoma**
The recommended dose of docetaxel is 75 mg/m² as a 1-hour infusion, followed by cisplatin 75 mg/m², as a 1- to 3-hour infusion (both on day 1 only), followed by 5-fluorouracil 750 mg/m² per day given as a 24-hour continuous infusion for 5 days, starting at the end of the cisplatin infusion. Treatment is repeated every three weeks. Patients must receive premedication with antiemetics and appropriate hydration for cisplatin administration. Prophylactic G-CSF should be used to mitigate the risk of haematological toxicities (see also Dose adjustments during treatment).

**Head and neck cancer**
Patients must receive premedication with antiemetics and appropriate hydration (prior to and after cisplatin administration). Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities. All patients on the docetaxel-containing arm of the TAX 323 and TAX 324 studies, received prophylactic antibiotics.

- **Induction chemotherapy followed by radiotherapy (TAX 323)**
  For the induction treatment of inoperable locally advanced squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1 hour infusion followed by cisplatin 75 mg/m² over 1 hour, on day one, followed by 5-fluorouracil as a continuous infusion at 750 mg/m² per day for five days. This regimen is administered every 3 weeks for 4 cycles. Following chemotherapy, patients should receive radiotherapy.

- **Induction chemotherapy followed by chemoradiotherapy (TAX 324)**
  For the induction treatment of patients with locally advanced (technically unresectable, low probability of surgical cure, and aiming at organ preservation) squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1 hour intravenous infusion on day 1, followed by cisplatin 100 mg/m² administered as a 30-minute to 3-hour infusion, followed by 5-fluorouracil 1000 mg/m²/day as a continuous infusion from day 1 to day 4. This regimen is administered every 3 weeks for 3 cycles. Following chemotherapy, patients should receive chemoradiotherapy.

For cisplatin and 5-fluorouracil dose modifications, see the corresponding summary of product characteristics.

**Dose adjustments during treatment**

**General**
Docetaxel should be administered when the neutrophil count is ≥ 1,500 cells/mm³. In patients who experienced either febrile neutropenia, neutrophil count < 500 cells/mm³ for more than one week, severe or cumulative cutaneous reactions or severe peripheral neuropathy during docetaxel therapy, the dose of docetaxel should be reduced from 100 mg/m² to 75 mg/m² and/or from 75 to
If the patient continues to experience these reactions at 60 mg/m², the treatment should be discontinued.

**Adjuvant therapy for breast cancer**
Primary G-CSF prophylaxis should be considered in patients who receive docetaxel, doxorubicin and cyclophosphamide (TAC) adjuvant therapy for breast cancer. Patients who experience febrile neutropenia and/or neutropenic infection should have their docetaxel dose reduced to 60 mg/m² in all subsequent cycles (see sections 4.4 and 4.8). Patients who experience Grade 3 or 4 stomatitis should have their dose decreased to 60 mg/m².

**In combination with cisplatin**
For patients who are dosed initially at docetaxel 75 mg/m² in combination with cisplatin and whose nadir of platelet count during the previous course of therapy is < 25,000 cells/mm³, or in patients who experience febrile neutropenia, or in patients with serious non-haematologic toxicities, the docetaxel dose in subsequent cycles should be reduced to 65 mg/m². For cisplatin dose adjustments, see the corresponding summary of product characteristics.

**In combination with capecitabine**
- For capecitabine dose modifications, see capecitabine summary of product characteristics.
- For patients developing the first appearance of Grade 2 toxicity, which persists at the time of the next docetaxel/capecitabine treatment, delay treatment until resolved to Grade 0-1, and resume at 100% of the original dose.
- For patients developing the second appearance of Grade 2 toxicity, or the first appearance of Grade 3 toxicity, at any time during the treatment cycle, delay treatment until resolved to Grade 0-1 and then resume treatment with docetaxel 55 mg/m².
- For any subsequent appearances of toxicities, or any Grade 4 toxicities, discontinue the docetaxel dose.

For trastuzumab dose modifications, see trastuzumab summary of product characteristics.

**In combination with cisplatin and 5-fluorouracil**
If an episode of febrile neutropenia, prolonged neutropenia or neutropenic infection occurs despite G-CSF use, the docetaxel dose should be reduced from 75 to 60 mg/m². If subsequent episodes of complicated neutropenia occur the docetaxel dose should be reduced from 60 to 45 mg/m². In case of Grade 4 thrombocytopenia the docetaxel dose should be reduced from 75 to 60 mg/m². Patients should not be retreated with subsequent cycles of docetaxel until neutrophils recover to a level > 1,500 cells/mm³ and platelets recover to a level > 100,000 cells/mm³. Discontinue treatment if these toxicities persist see section 4.4).
Recommended dose modifications for toxicities in patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (5-FU):

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Dose adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diarrhoea grade 3</td>
<td>First episode: reduce 5-FU dose by 20%.</td>
</tr>
<tr>
<td></td>
<td>Second episode: then reduce docetaxel dose by 20%.</td>
</tr>
<tr>
<td>Diarrhoea grade 4</td>
<td>First episode: reduce docetaxel and 5-FU doses by 20%.</td>
</tr>
<tr>
<td>Stomatitis/mucositis grade 3</td>
<td>First episode: reduce 5-FU dose by 20%.</td>
</tr>
<tr>
<td></td>
<td>Second episode: stop 5-FU only, at all subsequent cycles.</td>
</tr>
<tr>
<td></td>
<td>Third episode: reduce docetaxel dose by 20%.</td>
</tr>
<tr>
<td>Stomatitis/mucositis grade 4</td>
<td>First episode: stop 5-FU only, at all subsequent cycles.</td>
</tr>
<tr>
<td></td>
<td>Second episode: reduce docetaxel dose by 20%.</td>
</tr>
</tbody>
</table>

For cisplatin and 5-fluorouracil dose adjustments, see the corresponding summary of product characteristics.
In the pivotal SCCHN studies patients who experienced complicated neutropenia (including prolonged neutropenia, febrile neutropenia, or infection), it was recommended to use G-CSF to provide prophylactic coverage (e.g., day 6-15) in all subsequent cycles.

Special populations:

**Patients with hepatic impairment**
Based on pharmacokinetic data with docetaxel at 100 mg/m² as single agent, patients who have both elevations of transaminase (ALT and/or AST) greater than 1.5 times the upper limit of the normal range (ULN) and alkaline phosphatase greater than 2.5 times the ULN, the recommended dose of docetaxel is 75 mg/m² (see sections 4.4 and 5.2). For those patients with serum bilirubin > ULN and/or ALT and AST > 3.5 times the ULN associated with alkaline phosphatase > 6 times the ULN, no dose-reduction can be recommended and docetaxel should not be used unless strictly indicated.

In combination with cisplatin and 5-fluorouracil for the treatment of patients with gastric adenocarcinoma, the pivotal clinical study excluded patients with ALT and/or AST > 1.5 × ULN associated with alkaline phosphatase > 2.5 × ULN, and bilirubin > 1 × ULN; for these patients, no dose-reductions can be recommended and docetaxel should not be used unless strictly indicated. No data are available in patients with hepatic impairment treated by docetaxel in combination in the other indications.

**Paediatric population**
The safety and efficacy of TAXOTERE in nasopharyngeal carcinoma in children aged 1 month to less than 18 years have not yet been established.

There is no relevant use of TAXOTERE in the paediatric population in the indications breast cancer, non-small cell lung cancer, prostate cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma.

**Older people**
Based on a population pharmacokinetic analysis, there are no special instructions for use in older people.

In combination with capecitabine, for patients 60 years of age or more, a starting dose reduction of capecitabine to 75% is recommended (see capecitabine summary of product characteristics).

### 4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Docetaxel must not be used in patients with baseline neutrophil count of < 1,500 cells/mm³.

Docetaxel must not be used in patients with severe liver impairment since there is no data available (see sections 4.2 and 4.4).

Contraindications for other medicinal products also apply, when combined with docetaxel.

### 4.4 Special warnings and precautions for use

For breast and non-small cell lung cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day (e.g. 8 mg BID) for 3 days starting 1 day prior to docetaxel administration, unless contraindicated, can reduce the incidence and severity of fluid retention as well as the severity of hypersensitivity reactions. For prostate cancer, the premedication is oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the docetaxel infusion (see section 4.2).

**Haematology**

Neutropenia is the most frequent adverse reaction of docetaxel. Neutrophil nadirs occurred at a median of 7 days but this interval may be shorter in heavily pre-treated patients. Frequent monitoring of
complete blood counts should be conducted on all patients receiving docetaxel. Patients should be retreated with docetaxel when neutrophils recover to a level ≥ 1,500 cells/mm³ (see section 4.2).

In the case of severe neutropenia (< 500 cells/mm³ for seven days or more) during a course of docetaxel therapy, a reduction in dose for subsequent courses of therapy or the use of appropriate symptomatic measures are recommended (see section 4.2).

In patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (TCF), febrile neutropenia and neutropenic infection occurred at lower rates when patients received prophylactic G-CSF. Patients treated with TCF should receive prophylactic G-CSF to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients receiving TCF should be closely monitored (see sections 4.2 and 4.8).

In patients treated with docetaxel in combination with doxorubicin and cyclophosphamide (TAC), febrile neutropenia and/or neutropenic infection occurred at lower rates when patients received primary G-CSF prophylaxis. Primary G-CSF prophylaxis should be considered in patients who receive adjuvant therapy with TAC for breast cancer to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients receiving TAC should be closely monitored (see sections 4.2 and 4.8).

Hypersensitivity reactions

Patients should be observed closely for hypersensitivity reactions especially during the first and second infusions. Hypersensitivity reactions may occur within a few minutes following the initiation of the infusion of docetaxel, thus facilities for the treatment of hypotension and bronchospasm should be available. If hypersensitivity reactions occur, minor symptoms such as flushing or localised cutaneous reactions do not require interruption of therapy. However, severe reactions, such as severe hypotension, bronchospasm or generalised rash/erythema require immediate discontinuation of docetaxel and appropriate therapy. Patients who have developed severe hypersensitivity reactions should not be re-challenged with docetaxel.

Cutaneous reactions

Localised skin erythema of the extremities (palms of the hands and soles of the feet) with oedema followed by desquamation has been observed. Severe symptoms such as eruptions followed by desquamation which lead to interruption or discontinuation of docetaxel treatment were reported (see section 4.2).

Fluid retention

Patients with severe fluid retention such as pleural effusion, pericardial effusion and ascites should be monitored closely.

Respiratory disorders

Acute respiratory distress syndrome, interstitial pneumonia/pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure have been reported and may be associated with fatal outcome. Cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.

If new or worsening pulmonary symptoms develop, patients should be closely monitored, promptly investigated, and appropriately treated. Interruption of docetaxel therapy is recommended until diagnosis is available. Early use of supportive care measures may help improve the condition. The benefit of resuming docetaxel treatment must be carefully evaluated.
**Patients with liver impairment**

In patients treated with docetaxel at 100 mg/m² as single agent who have serum transaminase levels (ALT and/or AST) greater than 1.5 times the ULN concurrent with serum alkaline phosphatase levels greater than 2.5 times the ULN, there is a higher risk of developing severe adverse reactions such as toxic deaths including sepsis and gastrointestinal haemorrhage which can be fatal, febrile neutropenia, infections, thrombocytopenia, stomatitis and asthenia. Therefore, the recommended dose of docetaxel in those patients with elevated liver function test (LFTs) is 75 mg/m² and LFTs should be measured at baseline and before each cycle (see section 4.2).

For patients with serum bilirubin levels > ULN and/or ALT and AST > 3.5 times the ULN concurrent with serum alkaline phosphatase levels > 6 times the ULN, no dose-reduction can be recommended and docetaxel should not be used unless strictly indicated.

In combination with cisplatin and 5-fluorouracil for the treatment of patients with gastric adenocarcinoma, the pivotal clinical study excluded patients with ALT and/or AST > 1.5 × ULN associated with alkaline phosphatase > 2.5 × ULN, and bilirubin > 1 x ULN; for these patients, no dose-reductions can be recommended and docetaxel should not be used unless strictly indicated. No data are available in patients with hepatic impairment treated by docetaxel in combination in the other indications.

**Patients with renal impairment**

There are no data available in patients with severely impaired renal function treated with docetaxel.

**Nervous system**

The development of severe peripheral neurotoxicity requires a reduction of dose (see section 4.2).

**Cardiac toxicity**

Heart failure has been observed in patients receiving docetaxel in combination with trastuzumab, particularly following anthracycline (doxorubicin or epirubicin)-containing chemotherapy. This may be moderate to severe and has been associated with death (see section 4.8).

When patients are candidates for treatment with docetaxel in combination with trastuzumab, they should undergo baseline cardiac assessment. Cardiac function should be further monitored during treatment (e.g. every three months) to help identify patients who may develop cardiac dysfunction. For more details see summary of product characteristics of trastuzumab.

Ventricular arrhythmia including ventricular tachycardia (sometimes fatal) has been reported in patients treated with docetaxel in combination regimens including doxorubicin, 5-fluorouracil and/ or cyclophosphamide (see section 4.8).

Baseline cardiac assessment is recommended.

**Eye disorders**

Cystoid macular oedema (CMO) has been reported in patients treated with docetaxel. Patients with impaired vision should undergo a prompt and complete ophthalmologic examination. In case CMO is diagnosed, docetaxel treatment should be discontinued and appropriate treatment initiated (see section 4.8).

**Others**

Contraceptive measures must be taken by both men and women during treatment and for men at least 6 months after cessation of therapy (see section 4.6).
The concomitant use of docetaxel with strong CYP3A4 inhibitors (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin and voriconazole) should be avoided (see section 4.5).

Additional cautions for use in adjuvant treatment of breast cancer

Complicated neutropenia
For patients who experience complicated neutropenia (prolonged neutropenia, febrile neutropenia or infection), G-CSF and dose reduction should be considered (see section 4.2).

Gastrointestinal reactions
Symptoms such as early abdominal pain and tenderness, fever, diarrhoea, with or without neutropenia, may be early manifestations of serious gastrointestinal toxicity and should be evaluated and treated promptly.

Congestive heart failure (CHF)
Patients should be monitored for symptoms of congestive heart failure during therapy and during the follow up period. In patients treated with the TAC regimen for node positive breast cancer, the risk of CHF has been shown to be higher during the first year after treatment (see sections 4.8 and 5.1).

Leukaemia
In the docetaxel, doxorubicin and cyclophosphamide (TAC) treated patients, the risk of delayed myelodysplasia or myeloid leukaemia requires haematological follow-up.

Patients with 4+ nodes
As the benefit observed in patient with 4+ nodes was not statistically significant on disease-free survival (DFS) and overall survival (OS), the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis (see section 5.1).

Older people
There are limited data available in patients > 70 years of age on docetaxel use in combination with doxorubicin and cyclophosphamide.

Of the 333 patients treated with docetaxel every three weeks in a prostate cancer study, 209 patients were 65 years of age or greater and 68 patients were older than 75 years. In patients treated with docetaxel every three weeks, the incidence of related nail changes occurred at a rate ≥ 10% higher in patients who were 65 years of age or greater compared to younger patients. The incidence of related fever, diarrhoea, anorexia, and peripheral oedema occurred at rates ≥ 10% higher in patients who were 75 years of age or greater versus less than 65 years.

Among the 300 (221 patients in the phase III part of the study and 79 patients in the phase II part) patients treated with docetaxel in combination with cisplatin and 5-fluorouracil in the gastric cancer study, 74 were 65 years of age or older and 4 patients were 75 years of age or older. The incidence of serious adverse events was higher in older people compared to younger patients. The incidence of the following adverse events (all grades): lethargy, stomatitis, neutropenic infection occurred at rates ≥ 10% higher in patients who were 65 years of age or older compared to younger patients. Older people treated with TCF should be closely monitored.

Excipients
This medicinal product contains 13 % (w/w) ethanol 95% v/v (alcohol), i.e. up to 932 mg ethanol 95% v/v per solvent vial, equivalent to 23 ml of beer or 9.5 ml wine per vial.

Harmful for those suffering from alcoholism.
To be taken into account in pregnant or breast-feeding women, in children and in high-risk groups such as patients with liver disease, or epilepsy.
Consideration should be given to possible effects on the central nervous system.

The amount of alcohol in this medicinal product may alter the effects of other medicinal products.

The amount of alcohol in this medicinal product may impair the patients ability to drive or use machines (see section 4.7).

4.5 Interaction with other medicinal products and other forms of interaction

*In vitro* studies have shown that the metabolism of docetaxel may be modified by the concomitant administration of compounds which induce, inhibit or are metabolised by (and thus may inhibit the enzyme competitively) cytochrome P450-3A such as ciclosporine, ketoconazole and erythromycin. As a result, caution should be exercised when treating patients with these medicinal products as concomitant therapy since there is a potential for a significant interaction.

In case of combination with CYP3A4 inhibitors, the occurrence of docetaxel adverse reactions may increase, as a result of reduced metabolism. If the concomitant use of a strong CYP3A4 inhibitor (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, neflinavir, ritonavir, saquinavir, telithromycin and voriconazole) cannot be avoided, a close clinical surveillance is warranted and a dose-adjustment of docetaxel may be suitable during the treatment with the strong CYP3A4 inhibitor (see section 4.4). In a pharmacokinetic study with 7 patients, the co-administration of docetaxel with the strong CYP3A4 inhibitor ketoconazole leads to a significant decrease in docetaxel clearance by 49%.

Docetaxel pharmacokinetics in the presence of prednisone was studied in patients with metastatic prostate cancer. Docetaxel is metabolised by CYP3A4 and prednisone is known to induce CYP3A4. No statistically significant effect of prednisone on the pharmacokinetics of docetaxel was observed.

Docetaxel is highly protein bound (> 95%). Although the possible *in vivo* interaction of docetaxel with concomitantly administered medicinal product has not been investigated formally, *in vitro* interactions with tightly protein-bound agents such as erythromycin, diphenhydramine, propranolol, propafenone, phenytoin, salicylate, sulfamethoxazole and sodium valproate did not affect protein binding of docetaxel. In addition, dexamethasone did not affect protein binding of docetaxel. Docetaxel did not influence the binding of digitoxin.

The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their co-administration. Limited data from a single uncontrolled study were suggestive of an interaction between docetaxel and carboplatin. When combined to docetaxel, the clearance of carboplatin was about 50% higher than values previously reported for carboplatin monotherapy.

4.6 Fertility, pregnancy and lactation

**Pregnancy**

There is no information on the use of docetaxel in pregnant women. Docetaxel has been shown to be both embryotoxic and foetotoxic in rabbits and rats, and to reduce fertility in rats. As with other cytotoxic medicinal products, docetaxel may cause foetal harm when administered to pregnant women. Therefore, docetaxel must not be used during pregnancy unless clearly indicated.

Women of childbearing age receiving docetaxel should be advised to avoid becoming pregnant, and to inform the treating physician immediately should this occur.

**Breast-feeding**

Docetaxel is a lipophilic substance but it is not known whether it is excreted in human milk. Consequently, because of the potential for adverse reactions in nursing infants, breast feeding must be discontinued for the duration of docetaxel therapy.
Contraception in males and females

An effective method of contraception should be used during treatment.

Fertility

In non clinical studies, docetaxel has genotoxic effects and may alter male fertility (see section 5.3). Therefore, men being treated with docetaxel are advised not to father a child during and up to 6 months after treatment and to seek advice on conservation of sperm prior to treatment.

4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed. The amount of ethanol in Taxotere may impair the ability to drive or use machines (see section 4.4).

4.8 Undesirable effects

Summary of the safety profile for all indications

The adverse reactions considered to be possibly or probably related to the administration of docetaxel have been obtained in:

- 1312 and 121 patients who received 100 mg/m² and 75 mg/m² of docetaxel as a single agent respectively.
- 258 patients who received docetaxel in combination with doxorubicin.
- 406 patients who received docetaxel in combination with cisplatin.
- 92 patients treated with docetaxel in combination with trastuzumab.
- 255 patients who received docetaxel in combination with capecitabine.
- 332 patients who received docetaxel in combination with prednisone or prednisolone (clinically important treatment related adverse events are presented).
- 1276 patients (744 and 532 in TAX 316 and GEICAM 9805 respectively) who received docetaxel in combination with doxorubicin and cyclophosphamide (clinically important treatment related adverse events are presented).
- 300 gastric adenocarcinoma patients (221 patients in the phase III part of the study and 79 patients in the phase II part) who received docetaxel in combination with cisplatin and 5-fluorouracil (clinically important treatment related adverse events are presented).
- 174 and 251 head and neck cancer patients who received docetaxel in combination with cisplatin and 5-fluorouracil (clinically important treatment related adverse events are presented).

These reactions were described using the NCI Common Toxicity Criteria (grade 3 = G3; grade 3-4 = G3/4; grade 4 = G4), the COSTART and the MedDRA terms. Frequencies are defined as: very common (≥ 1/10), common (≥ 1/100 to < 1/10); uncommon (≥ 1/1,000 to < 1/100); rare (≥ 1/10,000 to < 1/1,000); very rare (< 1/10,000); not known (cannot be estimated from available data).

Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

The most commonly reported adverse reactions of docetaxel alone are: neutropenia (which was reversible and not cumulative; the median day to nadir was 7 days and the median duration of severe neutropenia (< 500 cells/mm³) was 7 days), anaemia, alopecia, nausea, vomiting, stomatitis, diarrhoea and asthenia. The severity of adverse events of docetaxel may be increased when docetaxel is given in combination with other chemotherapeutic agents.

For combination with trastuzumab, adverse events (all grades) reported in ≥ 10% are displayed. There was an increased incidence of SAEs (40% vs. 31%) and Grade 4 AEs (34% vs. 23%) in the trastuzumab combination arm compared to docetaxel monotherapy.
For combination with capecitabine, the most frequent treatment-related undesirable effects (≥ 5%) reported in a phase III study in breast cancer patients failing anthracycline treatment are presented (see capecitabine summary of product characteristics).

The following adverse reactions are frequently observed with docetaxel:

**Immune system disorders**

Hypersensitivity reactions have generally occurred within a few minutes following the start of the infusion of docetaxel and were usually mild to moderate. The most frequently reported symptoms were flushing, rash with or without pruritus, chest tightness, back pain, dyspnoea and fever or chills. Severe reactions were characterised by hypotension and/or bronchospasm or generalized rash/erythema (see section 4.4).

**Nervous system disorders**

The development of severe peripheral neurotoxicity requires a reduction of dose (see sections 4.2 and 4.4). Mild to moderate neuro-sensory signs are characterised by paresthesia, dysesthesia or pain including burning. Neuro-motor events are mainly characterised by weakness.

**Skin and subcutaneous tissue disorders**

Reversible cutaneous reactions have been observed and were generally considered as mild to moderate. Reactions were characterised by a rash including localised eruptions mainly on the feet and hands (including severe hand and foot syndrome), but also on the arms, face or thorax, and frequently associated with pruritus. Eruptions generally occurred within one week after the docetaxel infusion. Less frequently, severe symptoms such as eruptions followed by desquamation which rarely lead to interruption or discontinuation of docetaxel treatment were reported (see sections 4.2 and 4.4). Severe nail disorders are characterised by hypo- or hyperpigmentation and sometimes pain and onycholysis.

**General disorders and administration site conditions**

Infusion site reactions were generally mild and consisted of hyper pigmentation, inflammation, redness or dryness of the skin, phlebitis or extravasation and swelling of the vein. Fluid retention includes events such as peripheral oedema and less frequently pleural effusion, pericardial effusion, ascites and weight gain. The peripheral oedema usually starts at the lower extremities and may become generalised with a weight gain of 3 kg or more. Fluid retention is cumulative in incidence and severity (see section 4.4).

**Tabulated list of adverse reactions in breast cancer for TAXOTERE 100 mg/m² single agent**

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infections (G3/4: 5.7%; including sepsis and pneumonia, fatal in 1.7%)</td>
<td>Infection associated with G4 neutropenia (G3/4: 4.6%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 76.4%); Anaemia (G3/4: 8.9%); Febrile neutropenia</td>
<td>Thrombocytopenia (G4: 0.2%)</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 5.3%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system</td>
<td>Peripheral sensory</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MedDRA system organ classes</strong></td>
<td><strong>Very common adverse reactions</strong></td>
<td><strong>Common adverse reactions</strong></td>
<td><strong>Uncommon adverse reactions</strong></td>
</tr>
<tr>
<td>-------------------------------</td>
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<td>-------------------------------</td>
</tr>
<tr>
<td>disorders</td>
<td>neuropathy (G3: 4.1%); Peripheral motor neuropathy (G3/4: 4%); Dysgeusia (severe: 0.07%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Arrhythmia (G3/4: 0.7%)</td>
<td>Cardiac failure</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Hypotension; Hypertension; Haemorrhage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Dyspnoea (severe: 2.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Stomatitis (G3/4: 5.3%); Diarrhoea (G3/4: 4%); Nausea (G3/4: 4%); Vomiting (G3/4: 3%)</td>
<td>Constipation (severe: 0.2%); Abdominal pain (severe: 1%); Gastrointestinal haemorrhage (severe: 0.3%)</td>
<td>Oesophagitis (severe: 0.4%)</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Skin reaction (G3/4: 5.9%); Nail disorders (severe: 2.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (severe: 1.4%)</td>
<td>Arthralgia</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Fluid retention (severe: 6.5%); Asthenia (severe: 11.2%); Pain</td>
<td>Infusion site reaction; Non-cardiac chest pain (severe: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>G3/4 Blood bilirubin increased (&lt;5%); G3/4 Blood alkaline phosphatase increased (&lt;4%); G3/4 AST increased (&lt;3%); G3/4 ALT increased (&lt;2%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Description of selected adverse reactions in breast cancer for TAXOTERE 100 mg/m² single agent**

**Blood and lymphatic system disorders**
Rare: bleeding episodes associated with grade 3/4 thrombocytopenia.

**Nervous system disorders**
Reversibility data are available among 35.3% of patients who developed neurotoxicity following docetaxel treatment at 100 mg/m² as single agent. The events were spontaneously reversible within 3 months.
Skin and subcutaneous tissue disorders
Very rare: one case of alopecia non-reversible at the end of the study. 73% of the cutaneous reactions were reversible within 21 days.

General disorders and administration site conditions
The median cumulative dose to treatment discontinuation was more than 1,000 mg/m² and the median time to fluid retention reversibility was 16.4 weeks (range 0 to 42 weeks). The onset of moderate and severe retention is delayed (median cumulative dose: 818.9 mg/m²) in patients with premedication compared with patients without premedication (median cumulative dose: 489.7 mg/m²); however, it has been reported in some patients during the early courses of therapy.

Tabulated list of adverse reactions in non-small cell lung cancer for TAXOTERE 75 mg/m² single agent

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infections (G3/4: 5%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 54.2%); Anaemia (G3/4: 10.8%); Thrombocytopenia (G4: 1.7%)</td>
<td>Febrile neutropenia</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td>Hypersensitivity (no severe)</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 0.8%)</td>
<td>Peripheral motor neuropathy (G3/4: 2.5%)</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Arrhythmia (no severe)</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td>Hypotension</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 3.3%); Stomatitis (G3/4: 1.7%); Vomiting (G3/4: 0.8%); Diarrhoea (G3/4: 1.7%)</td>
<td>Constipation</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Skin reaction (G3/4: 0.8%)</td>
<td>Nail disorders (severe: 0.8%)</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td>Myalgia</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 12.4%); Fluid retention (severe: 0.8%); Pain</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td>G3/4 Blood bilirubin increased (&lt; 2%)</td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in breast cancer for TAXOTERE 75 mg/m² in combination with doxorubicin

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 7.8%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 91.7%); Anaemia (G3/4: 9.4%); Febrile neutropenia; Thrombocytopenia (G4: 0.8%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
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<tr>
<td>---------------------------------------------</td>
<td>------------------------------------------------------------------</td>
<td>------------------------------------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td>Hypersensitivity (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td></td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 0.4%)</td>
<td>Peripheral motor neuropathy (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Cardiac failure; Arrhythmia (no severe)</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td>Hypotension</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 5%); Stomatitis (G3/4: 7.8%); Diarrhoea (G3/4: 6.2%); Vomiting (G3/4: 5%); Constipation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (severe: 0.4%); Skin reaction (no severe)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td>Myalgia</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 8.1%); Fluid retention (severe: 1.2%); Pain</td>
<td></td>
<td>Infusion site reaction</td>
</tr>
<tr>
<td>Investigations</td>
<td>G3/4 Blood bilirubin increased (&lt; 2.5%); G3/4 Blood alkaline phosphatase increased (&lt; 2.5%)</td>
<td>G3/4 AST increased (&lt; 1%); G3/4 ALT increased (&lt; 1%)</td>
<td></td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions in non-small cell lung cancer for TAXOTERE 75 mg/m² in combination with cisplatin

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 5.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 51.5%); Anaemia (G3/4: 6.9%); Thrombocytopenia (G4: 0.5%)</td>
<td>Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 2.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 3.7%); Peripheral motor neuropathy (G3/4: 2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Arrhythmia (G3/4: 0.7%)</td>
<td>Cardiac failure</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Hypotension (G3/4: 0.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 9.6%); Vomiting (G3/4: 7.6%); Diarrhoea (G3/4: 6.4%); Stomatitis (G3/4: 2%)</td>
<td>Constipation</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (severe: 0.7%); Skin reaction (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (severe: 0.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 9.9%); Fluid retention (severe: 0.7%); Fever (G3/4: 1.2%)</td>
<td>Infusion site reaction; Pain</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>G3/4 Blood bilirubin increased (2.1%); G3/4 ALT increased (1.3%)</td>
<td>G3/4 AST increased (0.5%); G3/4 Blood alkaline phosphatase increased (0.3%)</td>
<td></td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions in breast cancer for TAXOTERE 100 mg/m² in combination with trastuzumab

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 32%); Febrile neutropenia (includes neutropenia associated with fever and antibiotic use) or neutropenic sepsis</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td>Insomnia</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Paresthesia; Headache; Dysgeusia; Hypoaesthesia</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased; Conjunctivitis</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Cardiac failure</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Lymphoedema</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Epistaxis; Pharyngolaryngeal pain; Nasopharyngitis; Dyspnocia; Cough; Rhinorrhea</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea; Diarrhoea; Vomiting; Constipation; Stomatitis; Dyspepsia; Abdominal pain</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Erythema; Rash; Nail disorders</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia; Arthralgia; Pain in extremity; Bone pain; Back pain</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia; Oedema peripheral; Pyrexia; Fatigue; Mucosal inflammation; Pain; Influenza like illness; Chest pain; Chills</td>
<td>Lethargy</td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight increased</td>
<td></td>
</tr>
</tbody>
</table>

Description of selected adverse reactions in breast cancer for Taxotere 100 mg/m² in combination with trastuzumab

**Cardiac disorders**
Symptomatic cardiac failure was reported in 2.2% of the patients who received docetaxel plus trastuzumab compared to 0% of patients given docetaxel alone. In the docetaxel plus trastuzumab arm, 64% had received a prior anthracycline as adjuvant therapy compared with 55% in the docetaxel arm alone.

**Blood and lymphatic system disorders**
Very common: Haematological toxicity was increased in patients receiving trastuzumab and docetaxel, compared with docetaxel alone (32% grade 3/4 neutropenia versus 22%, using NCI-CTC criteria). Note that this is likely to be an underestimate since docetaxel alone at a dose of 100 mg/m² is known to result in neutropenia in 97% of patients, 76% grade 4, based on nadir blood counts. The incidence of febrile neutropenia/neutropenic sepsis was also increased in patients treated with Herceptin plus docetaxel (23% versus 17% for patients treated with docetaxel alone).
Tabulated list of adverse reactions in breast cancer for TAXOTERE 75 mg/m² in combination with capecitabine

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td></td>
<td>Oral candidiasis (G3/4: &lt; 1%)</td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 63%);</td>
<td>Thrombocytopenia (G3/4: 3%)</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anaemia (G3/4: 10%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dehydration (G3/4: &lt; 1%)</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Anorexia (G3/4: 1%);</td>
<td>Dizziness;</td>
</tr>
<tr>
<td></td>
<td>Decreased appetite</td>
<td>Headache (G3/4: &lt; 1%);</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Neuropathy peripheral</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Pharyngolaryngeal pain (G3/4: 2%)</td>
<td>Dyspnoea (G3/4: 1%); Cough (G3/4: &lt; 1%); Epistaxis (G3/4: &lt; 1%)</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Stomatitis (G3/4: 18%);</td>
<td>Abdominal pain upper;</td>
</tr>
<tr>
<td></td>
<td>Diarrhoea (G3/4: 14%);</td>
<td>Dry mouth</td>
</tr>
<tr>
<td></td>
<td>Nausea (G3/4: 6%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vomiting (G3/4: 4%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Constipation (G3/4: 1%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Abdominal pain (G3/4: 2%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dyspepsia</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Hand-foot syndrome (G3/4: 24%);</td>
<td>Dermatitis;</td>
</tr>
<tr>
<td></td>
<td>Alopecia (G3/4: 6%);</td>
<td>Rash erythematous (G3/4: &lt; 1%);</td>
</tr>
<tr>
<td></td>
<td>Nail disorders (G3/4: 2%)</td>
<td>Nail discolouration;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Onycholysis (G3/4: 1%)</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (G3/4: 2%);</td>
<td>Pain in extremity (G3/4: &lt; 1%);</td>
</tr>
<tr>
<td></td>
<td>Arthralgia (G3/4: 1%);</td>
<td>Back pain (G3/4: 1%)</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (G3/4: 3%);</td>
<td>Lethargy;</td>
</tr>
<tr>
<td></td>
<td>Pyrexia (G3/4: 1%);</td>
<td>Pain</td>
</tr>
<tr>
<td></td>
<td>Fatigue/weakness (G3/4: 5%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oedema peripheral (G3/4: 1%)</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td>Weight decreased;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>G3/4 Blood bilirubin increased (9%)</td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions in prostate cancer for TAXOTERE 75 mg/m² in combination with prednisone or prednisolone

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 3.3%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 32%); Anaemia (G3/4: 4.9%)</td>
<td>Thrombocytopenia (G3/4: 0.6%); Febrile neutropenia</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td>Hypersensitivity (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 0.6%)</td>
<td>Peri neural sensory neuropathy (G3/4: 1.2%); Dysgeusia (G3/4: 0%)</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 1.2%); Dysgeusia (G3/4: 0%)</td>
<td>Peripheral motor neuropathy (G3/4: 0%)</td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td>Lacrimation increased (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Cardiac left ventricular function decrease (G3/4: 0.3%)</td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Epistaxis (G3/4: 0%); Dyspnoea (G3/4: 0.6%); Cough (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 2.4%); Diarrhoea (G3/4: 1.2%); Stomatitis/Pharyngitis (G3/4: 0.9%); Vomiting (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (no severe)</td>
<td>Exfoliative rash (G3/4: 0.3%)</td>
</tr>
<tr>
<td>Musculoskeletal and connective bone disorders</td>
<td></td>
<td>Arthralgia (G3/4: 0.3%); Myalgia (G3/4: 0.3%)</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Fatigue (G3/4: 3.9%); Fluid retention (severe: 0.6%)</td>
<td></td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in breast cancer for adjuvant therapy with TAXOTERE 75 mg/m² in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer - pooled data

<table>
<thead>
<tr>
<th>MedDRA System Organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 2.4%); Neutropenic infection (G3/4: 2.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Anaemia (G3/4: 3%); Neutropenia (G3/4: 59.2%); Thrombocytopenia (G3/4: 1.6%); Febrile neutropenia (G3/4: NA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td>Hypersensitivity (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Metabolism and</td>
<td>Anorexia (G3/4: 1.5%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### MedDRA System Organ classes

#### Nutrition disorders

- **Very common adverse reactions**
  - Dysgeusia (G3/4: 0.6%)
- **Common adverse reactions**
  - Peripheral motor neuropathy (G3/4: 0%)
- **Uncommon adverse reactions**
  - Syncope (G3/4: 0%); Neurotoxicity (G3/4: 0%); Somnolence (G3/4: 0%)

#### Nervous system disorders

- **Eye disorders**
  - Conjunctivitis (G3/4: <0.1%)
- **Cardiac disorders**
  - Arrhythmia (G3/4: 0.2%)

#### Vascular disorders

- **Eye disorders**
  - Conjunctivitis (G3/4: <0.1%)
- **Cardiac disorders**
  - Arrhythmia (G3/4: 0.2%)

#### Respiratory, thoracic and mediastinal disorders

- **Eye disorders**
  - Conjunctivitis (G3/4: <0.1%)
- **Cardiac disorders**
  - Arrhythmia (G3/4: 0.2%)

#### Gastrointestinal disorders

- **Gastrointestinal disorders**
  - Nausea (G3/4: 5.0%); Stomatitis (G3/4: 6.0%); Vomiting (G3/4: 4.2%); Diarrhoea (G3/4: 3.4%); Constipation (G3/4: 0.5%)

#### Skin and subcutaneous tissue disorders

- **Skin and subcutaneous tissue disorders**
  - Alopecia (persisting: <3%); Skin disorder (G3/4: 0.6%); Nail disorders (G3/4: 0.4%)

#### Musculoskeletal and connective tissue disorders

- **Musculoskeletal and connective tissue disorders**
  - Myalgia (G3/4: 0.7%); Arthralgia (G3/4: 0.2%)

#### Reproductive system and breast disorders

- **Reproductive system and breast disorders**
  - Amenorrhoea (G3/4: NA)

#### General disorders and administration site conditions

- **General disorders and administration site conditions**
  - Asthenia (G3/4: 10.0%); Pyrexia (G3/4: NA); Oedema peripheral (G3/4: 0.2%)

#### Investigations

- **Investigations**
  - Weight increased (G3/4: 0%); Weight decreased (G3/4: 0.2%)

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**Description of selected adverse reactions for adjuvant therapy with Taxotere 75 mg/m² in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer**

**Nervous system disorders**

In study TAX316 peripheral sensory neuropathy started during the treatment period and persisted into the follow-up period in 84 patients (11.3%) in TAC arm and 15 patients (2%) in FAC arm. At the end
of the follow-up period (median follow-up time of 8 years), peripheral sensory neuropathy was observed to be ongoing in 10 patients (1.3%) in TAC arm, and in 2 patients (0.3%) in FAC arm. In GEICAM 9805 study peripheral sensory neuropathy that started during the treatment period persisted into the follow-up period in 10 patients (1.9%) in TAC arm and 4 patients (0.8%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), peripheral sensory neuropathy was observed to be ongoing in 3 patients (0.6%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

**Cardiac disorders**

In study TAX316, 26 patients (3.5%) in the TAC arm and 17 patients (2.3%) in the FAC arm experienced congestive heart failure. All except one patient in each arm were diagnosed with CHF more than 30 days after the treatment period. Two patients in the TAC arm and 4 patients in the FAC arm died because of cardiac failure.

In GEICAM 9805 study, 3 patients (0.6%) in TAC arm and 3 patients (0.6%) in FAC arm developed congestive heart failure during the follow-up period. At the end of the follow-up period (actual median follow-up time of 10 years and 5 months), no patients had CHF in TAC arm and 1 patient in TAC arm died because of dilated cardiomyopathy, and CHF was observed to be ongoing in 1 patient (0.2%) in FAC arm.

**Skin and subcutaneous tissue disorders**

In study TAX316 alopecia persisting into the follow-up period after the end of chemotherapy was reported in 687 of 744 TAC patients (92.3%) and 645 of 736 FAC patients (87.6%). At the end of the follow-up period (actual median follow-up time of 8 years), alopecia was observed to be ongoing in 29 TAC patients (3.9%) and 16 FAC patients (2.2%).

In GEICAM 9805 study alopecia that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 49 patients (9.2%) in TAC arm and 35 patients (6.7%) in FAC arm. Alopecia related to study drug started or worsened during the follow-up period in 42 patients (7.9%) in TAC arm and 30 patients (5.8%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), alopecia was observed to be ongoing in 3 patients (0.6%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

**Reproductive system and breast disorders**

In TAX316 amenorrhoea that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 202 of 744 TAC patients (27.2%) and 125 of 736 FAC patients (17.0%). Amenorrhoea was observed to be ongoing at the end of the follow-up period (median follow-up time of 8 years) in 121 of 744 TAC patients (16.3%) and 86 FAC patients (11.7%). In GEICAM 9805 study amenorrhoea that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 18 patients (3.4%) in TAC arm and 5 patients (1.0%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), amenorrhoea was observed to be ongoing in 7 patients (1.3%) in TAC arm, and in 4 patients (0.8%) in FAC arm.

**General disorders and administration site conditions**

In study TAX316 peripheral oedema that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was observed in 119 of 744 TAC patients (16.0%) and 23 of 736 FAC patients (3.1%). At the end of the follow-up period (actual median follow-up time of 8 years), peripheral oedema was ongoing in 19 TAC patients (2.6%) and 4 FAC patients (0.5%).

In study TAX316 lymphoedema that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 11 of 744 TAC patients (1.5%) and 1 of 736 FAC patients (0.1%). At the end of the follow-up period (actual median follow-up time of 8 years), lymphoedema was observed to be ongoing in 6 TAC patients (0.8%) and 1 FAC patient (0.1%).

In study TAX316 asthenia that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 236 of 744 TAC patients (31.7%) and 180 of 736 FAC patients (24.5%). At the end of the follow-up period (actual median follow-up time of 8 years), asthenia was observed to be ongoing in 29 TAC patients (3.9%) and 16 FAC patients (2.2%).
In study GEICAM 9805 peripheral oedema that started during the treatment period persisted into the follow-up period in 4 patients (0.8%) in TAC arm and in 2 patients (0.4%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), no patients (0%) in TAC arm had peripheral oedema and it was observed to be ongoing in 1 patient (0.2%) in FAC arm. Lymphoedema that started during the treatment period persisted into the follow-up period in 5 patients (0.9%) in TAC arm and 2 patients (0.4%) in FAC arm. At the end of the follow-up period, lymphoedema was observed to be ongoing in 4 patients (0.8%) in TAC arm, and in 1 patient (0.2%) in FAC arm. Asthenia that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 12 patients (2.3%) in TAC arm and 4 patients (0.8%) in FAC arm. At the end of the follow-up period, asthenia was observed to be ongoing in 2 patients (0.4%) in TAC arm, and in 2 patients (0.4%) in FAC arm.

**Acute leukaemia / Myelodysplastic syndrome.**
After 10 years of follow up in study TAX316, acute leukaemia was reported in 3 of 744 TAC patients (0.4%) and in 1 of 736 FAC patients (0.1%). One TAC patient (0.1%) and 1 FAC patient (0.1%) died due to AML during the follow-up period (median follow-up time of 8 years). Myelodysplastic syndrome was reported in 2 of 744 TAC patients (0.3%) and in 1 of 736 FAC patients (0.1%). After 10 years of follow-up in GEICAM 9805 study, acute leukaemia occurred in 1 of 532 (0.2%) patients in TAC arm. No cases were reported in patients in FAC arm. No patient was diagnosed with myelodysplastic syndrome in either treatment groups.

**Neutropenic complications**
Table below shows that the incidence of Grade 4 neutropenia, febrile neutropenia and neutropenic infection was decreased in patients who received primary G-CSF prophylaxis after it was made mandatory in the TAC arm. – GEICAM study.

<table>
<thead>
<tr>
<th>Neutropenic complications</th>
<th>Patients without primary G-CSF prophylaxis (n = 111)</th>
<th>Patients with primary G-CSF prophylaxis (n = 421)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neutropenia (Grade 4)</td>
<td>104 (93.7)</td>
<td>135 (32.1)</td>
</tr>
<tr>
<td>Febrile neutropenia</td>
<td>28 (25.2)</td>
<td>23 (5.5)</td>
</tr>
<tr>
<td>Neutropenic infection</td>
<td>14 (12.6)</td>
<td>21 (5.0)</td>
</tr>
<tr>
<td>Neutropenic infection (Grade 3-4)</td>
<td>2 (1.8)</td>
<td>5 (1.2)</td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in gastric adenocarcinoma cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Neutropenic infection; Infection (G3/4: 11.7%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Anaemia (G3/4: 20.9%); Neutropenia (G3/4: 83.2%); Thrombocytopenia (G3/4: 8.8%); Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 1.7%)</td>
<td></td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------------------</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 11.7%)</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 8.7%); Dizziness (G3/4: 2.3%); Peripheral motor neuropathy (G3/4: 1.3%)</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td>Hearing impaired (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Arrhythmia (G3/4: 1.0%)</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Diarrhoea (G3/4: 19.7%); Nausea (G3/4: 16%); Stomatitis (G3/4: 23.7%); Vomiting (G3/4: 14.3%); Constipation (G3/4: 1.0%); Gastrointestinal pain (G3/4: 1.0%); Oesophagitis/dysphagia/odynophagia (G3/4: 0.7%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 4.0%); Rash pruritus (G3/4: 0.7%); Nail disorders (G3/4: 0.7%); Skin exfoliation (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 19.0%); Fever (G3/4: 2.3%); Fluid retention (severe/life-threatening: 1%)</td>
<td></td>
</tr>
</tbody>
</table>

Description of selected adverse reactions in gastric adenocarcinoma cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

**Blood and lymphatic system disorders**
Febrile neutropenia and neutropenic infection occurred in 17.2% and 13.5% of patients respectively, regardless of G-CSF use. G-CSF was used for secondary prophylaxis in 19.3% of patients (10.7% of the cycles). Febrile neutropenia and neutropenic infection occurred respectively in 12.1% and 3.4% of patients when patients received prophylactic G-CSF, in 15.6% and 12.9% of patients without prophylactic G-CSF (see section 4.2).

Tabulated list of adverse reactions in head and neck cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

- Induction chemotherapy followed by radiotherapy (TAX 323)

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 6.3%); Neutropenic infection</td>
<td>Cancer pain (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Neutropenia (G3/4: 76.3%); Anaemia (G3/4: 9.2%); Thrombocytopenia (G3/4: 5.2%)</td>
<td>Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td>Hypersensitivity (no severe)</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 0.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------------------------</td>
<td>--------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia/Parosmia; Peripheral sensory neuropathy (G3/4: 0.6%)</td>
<td>Dizziness</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td></td>
<td>Lacrimation increased; Conjunctivitis</td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td></td>
<td></td>
<td>Hearing impaired</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
<td>Myocardial ischemia (G3/4: 1.7%); Arrhythmia (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td></td>
<td>Venous disorder (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 0.6%); Stomatitis (G3/4: 4.0%); Diarrhoea (G3/4: 2.9%); Vomiting (G3/4: 0.6%)</td>
<td>Constipation; Esophagitis/dysphagia/odynophagia (G3/4: 0.6%); Abdominal pain; Dyspepsia; Gastrointestinal haemorrhage (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 10.9%)</td>
<td>Rash pruritic; Dry skin; Skin exfoliative (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td></td>
<td>Myalgia (G3/4: 0.6%)</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 3.4%); Pyrexia (G3/4: 0.6%); Fluid retention; Oedema</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td></td>
<td>Weight increased</td>
</tr>
</tbody>
</table>

- Induction chemotherapy followed by chemoradiotherapy (TAX 324)
<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immune system disorders</td>
<td></td>
<td></td>
<td>Hypersensitivity</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 12.0%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia/Parosmia (G3/4: 0.4%); Peripheral sensory neuropathy (G3/4: 1.2%)</td>
<td>Dizziness (G3/4: 2.0%); Peripheral motor neuropathy (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td>Lacrimation increased</td>
<td>Conjunctivitis</td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td>Hearing impaired (G3/4: 1.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Arrhythmia (G3/4: 2.0%)</td>
<td>Ischemia myocardial</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td></td>
<td>Venous disorder</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 13.9%); Stomatitis (G3/4: 20.7%); Vomiting (G3/4: 8.4%); Diarrhoea (G3/4: 6.8%); Esophagitis/dysphagia/odynophagia (G3/4: 12.0%); Constipation (G3/4: 0.4%)</td>
<td>Dyspepsia (G3/4: 0.8%); Gastrointestinal pain (G3/4: 1.2%); Gastrointestinal haemorrhage (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 4.0%); Rash pruritic</td>
<td>Dry skin ; Desquamation</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal, connective tissue bone disorders</td>
<td></td>
<td>Myalgia (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 4.0%); Pyrexia (G3/4: 3.6%); Fluid retention (G3/4: 1.2%); Oedema (G3/4: 1.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight decreased</td>
<td></td>
<td>Weight increased</td>
</tr>
</tbody>
</table>

**Post-marketing experience**

*Neoplasms benign, malignant and unspecified (incl cysts and polyps)*  
Cases of acute myeloid leukaemia and myelodysplastic syndrome have been reported in association with docetaxel when used in combination with other chemotherapy agents and/or radiotherapy.

*Blood and lymphatic system disorders*  
Bone marrow suppression and other haematologic adverse reactions have been reported. Disseminated intravascular coagulation (DIC), often in association with sepsis or multiorgan failure, has been reported.

*Immune system disorders*  
Some cases of anaphylactic shock, sometimes fatal, have been reported.

*Nervous system disorders*
Rare cases of convulsion or transient loss of consciousness have been observed with docetaxel administration. These reactions sometimes appear during the infusion of the medicinal product.

**Eye disorders**

Very rare cases of transient visual disturbances (flashes, flashing lights, scotomata) typically occurring during infusion of the medicinal product and in association with hypersensitivity reactions have been reported. These were reversible upon discontinuation of the infusion. Cases of lacrimation with or without conjunctivitis, as cases of lacrimal duct obstruction resulting in excessive tearing have been rarely reported. Cases of cystoid macular oedema (CMO) have been reported in patients treated with docetaxel.

**Ear and labyrinth disorders**

Rare cases of ototoxicity, hearing impaired and/or hearing loss have been reported.

**Cardiac disorders**

Rare cases of myocardial infarction have been reported. Ventricular arrhythmia including ventricular tachycardia (frequency not known), sometimes fatal, has been reported in patients treated with docetaxel in combination regimens including doxorubicin, 5-fluorouracil and/or cyclophosphamide.

**Vascular disorders**

Venous thromboembolic events have rarely been reported.

**Respiratory, thoracic and mediastinal disorders**

Acute respiratory distress syndrome and cases of interstitial pneumonia/ pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure sometimes fatal have rarely been reported. Rare cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.

**Gastrointestinal disorders**

Rare occurrences of dehydration as a consequence of gastrointestinal events, gastrointestinal perforation, colitis ischaemic, colitis and neutropenic enterocolitis have been reported. Rare cases of ileus and intestinal obstruction have been reported.

**Hepatobiliary disorders**

Very rare cases of hepatitis, sometimes fatal primarily in patients with pre-existing liver disorders, have been reported.

**Skin and subcutaneous tissue disorders**

Very rare cases of cutaneous lupus erythematosus and bullous eruptions such as erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis, have been reported with docetaxel. In some cases concomitant factors may have contributed to the development of these effects. Scleroderma-like changes usually preceded by peripheral lymphoedema have been reported with docetaxel. Cases of permanent alopecia (frequency not known) have been reported.

**Renal and urinary disorders**

Renal insufficiency and renal failure have been reported. In about 20% of these cases there were no risk factors for acute renal failure such as concomitant nephrotoxic medicinal products and gastrointestinal disorders.

**General disorders and administration site conditions**

Radiation recall phenomena have rarely been reported. Fluid retention has not been accompanied by acute episodes of oliguria or hypotension. Dehydration and pulmonary oedema have rarely been reported.

**Metabolism and nutrition disorders**

Cases of electrolyte imbalance have been reported. Cases of hyponatraemia have been reported, mostly associated with dehydration, vomiting and pneumonia. Hypokalaemia, hypomagnesaemia, and
hypocalcaemia were observed, usually in association with gastrointestinal disorders and in particular
with diarrhoea.

**Reporting of suspected adverse reactions**
Reporting suspected adverse reactions after authorisation of the medicinal product is important. It
allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare
professionals are asked to report any suspected adverse reactions via the national reporting system
listed in Appendix V.

### 4.9 Overdose

There were a few reports of overdose. There is no known antidote for docetaxel overdose. In case of
overdose, the patient should be kept in a specialised unit and vital functions closely monitored. In
cases of overdose, exacerbation of adverse events may be expected. The primary anticipated
complications of overdose would consist of bone marrow suppression, peripheral neurotoxicity and
mucositis. Patients should receive therapeutic G-CSF as soon as possible after discovery of overdose.
Other appropriate symptomatic measures should be taken, as needed.

### 5. PHARMACOLOGICAL PROPERTIES

#### 5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Taxanes, ATC Code: L01CD 02

**Mechanism of action**

Docetaxel is an antineoplastic agent which acts by promoting the assembly of tubulin into stable
microtubules and inhibits their disassembly which leads to a marked decrease of free tubulin. The
binding of docetaxel to microtubules does not alter the number of protofilaments.

Docetaxel has been shown *in vitro* to disrupt the microtubular network in cells which is essential for
vital mitotic and interphase cellular functions.

**Pharmacodynamic effects**

Docetaxel was found to be cytotoxic *in vitro* against various murine and human tumour cell lines and
against freshly excised human tumour cells in clonogenic assays. Docetaxel achieves high intracellular
concentrations with a long cell residence time. In addition, docetaxel was found to be active on some
but not all cell lines over expressing the p-glycoprotein which is encoded by the multidrug resistance
gene. *In vivo*, docetaxel is schedule independent and has a broad spectrum of experimental antitumour
activity against advanced murine and human grafted tumours.

**Clinical efficacy and safety**

**Breast cancer**

*TAXOTERE in combination with doxorubicin and cyclophosphamide: adjuvant therapy*

Patients with operable node-positive breast cancer (TAX 316)

Data from a multicenter open label randomized study support the use of docetaxel for the adjuvant
treatment of patients with operable node-positive breast cancer and KPS ≥ 80%, between 18 and
70 years of age. After stratification according to the number of positive lymph nodes (1-3, 4+),
1491 patients were randomized to receive either docetaxel 75 mg/m² administered 1-hour after
doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² (TAC arm), or doxorubicin 50 mg/m²
followed by fluorouracil 500 mg/m² and cyclophosphamide 500 mg/m² (FAC arm). Both regimens
were administered once every 3 weeks for 6 cycles. Docetaxel was administered as a 1-hour infusion, all other medicinal products were given as intravenous bolus on day one. G-CSF was administered as secondary prophylaxis to patients who experienced complicated neutropenia (febrile neutropenia, prolonged neutropenia, or infection). Patients on the TAC arm received antibiotic prophylaxis with ciprofloxacin 500 mg orally twice daily for 10 days starting on day 5 of each cycle, or equivalent. In both arms, after the last cycle of chemotherapy, patients with positive estrogen and/or progesterone receptors received tamoxifen 20 mg daily for up to 5 years. Adjuvant radiation therapy was prescribed according to guidelines in place at participating institutions and was given to 69% of patients who received TAC and 72% of patients who received FAC. Two interim analyses and one final analysis were performed. The first interim analysis was planned 3 years after the date when half of study enrollment was done. The second interim analysis was done after 400 DFS events had been recorded overall, which led to a median follow-up of 55 months. The final analysis was performed when all patients had reached their 10-year follow-up visit (unless they had a DFS event or were lost to follow-up before). Disease-free survival (DFS) was the primary efficacy endpoint and Overall survival (OS) was the secondary efficacy endpoint.

A final analysis was performed with an actual median follow up of 96 months. Significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. Incidence of relapses at 10 years was reduced in patients receiving TAC compared to those who received FAC (39% versus 45%, respectively) i.e. an absolute risk reduction by 6% (p = 0.0043). Overall survival at 10 years was also significantly increased with TAC compared to FAC (76% versus 69%, respectively) i.e. an absolute reduction of the risk of death by 7% (p = 0.002). As the benefit observed in patients with 4+ nodes was not statistically significant on DFS and OS, the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis.

Overall, the study results demonstrate a positive benefit risk ratio for TAC compared to FAC.

TAC-treated patient subsets according to prospectively defined major prognostic factors were analyzed:

<table>
<thead>
<tr>
<th>Patient subset</th>
<th>Number of patients</th>
<th>Hazard ratio*</th>
<th>95% CI</th>
<th>p =</th>
<th>Hazard ratio*</th>
<th>95% CI</th>
<th>p =</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of positive nodes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall</td>
<td>745</td>
<td>0.80</td>
<td>0.68-0.93</td>
<td>0.0043</td>
<td>0.74</td>
<td>0.61-0.90</td>
<td>0.0020</td>
</tr>
<tr>
<td>1-3</td>
<td>467</td>
<td>0.72</td>
<td>0.58-0.91</td>
<td>0.0047</td>
<td>0.62</td>
<td>0.46-0.82</td>
<td>0.0008</td>
</tr>
<tr>
<td>4+</td>
<td>278</td>
<td>0.87</td>
<td>0.70-1.09</td>
<td>0.2290</td>
<td>0.87</td>
<td>0.67-1.12</td>
<td>0.2746</td>
</tr>
</tbody>
</table>

*a a hazard ratio of less than 1 indicates that TAC is associated with a longer disease-free survival and overall survival compared to FAC

Patients with operable node-negative breast cancer eligible to receive chemotherapy (GEICAM 9805)

Data from a multicenter open label randomized trial support the use of TAXOTERE for the adjuvant treatment of patients with operable node-negative breast cancer eligible to receive chemotherapy. 1060 patients were randomized to receive either TAXOTERE 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² (539 patients in TAC arm), or doxorubicin 50 mg/m² followed by fluorouracil 500 mg/m² and cyclophosphamide 500 mg/m² (521 patients in FAC arm), as adjuvant treatment of operable node-negative breast cancer patients with high risk of relapse according to 1998 St. Gallen criteria (tumour size >2 cm and/or negative ER and PR and/or high histological/nuclear grade (grade 2 to 3) and/or age <35 years). Both regimens were administered once every 3 weeks for 6 cycles. TAXOTERE was administered as a 1-hour infusion, all other medicinal products were given as intravenously on day 1 every three weeks. Primary prophylactic G-CSF was made mandatory in TAC arm after 230 patients were randomized. The incidence of Grade 4 neutropenia, febrile neutropenia and neutropenic infection was decreased in patients who received primary G-CSF prophylaxis (see section 4.8). In both arms, after the last cycle of
chemotherapy, patients with ER+ and/or PgR+ tumours received tamoxifen 20 mg once a day for up to 5 years. Adjuvant radiation therapy was administered according to guidelines in place at participating institutions and was given to 57.3% of patients who received TAC and 51.2% of patients who received FAC.

One primary analysis and one updated analysis were performed. The primary analysis was done when all patients had a follow-up of greater than 5 years (median follow-up time of 77 months). The updated analysis was performed when all patients had reached their 10-year (median follow up time of 10 years and 5 months) follow-up visit (unless they had a DFS event or were lost to follow-up previously). Disease-free survival (DFS) was the primary efficacy endpoint and Overall survival (OS) was the secondary efficacy endpoint.

At the median follow-up time of 77 months, significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. TAC-treated patients had a 32% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.68, 95% CI (0.49-0.93), p = 0.01). At the median follow-up time of 10 years and 5 months, TAC-treated patients had a 16.5% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.84, 95% CI (0.65-1.08), p=0.1646). DFS data were not statistically significant but were still associated with a positive trend in favour of TAC.

At the median follow-up time of 77 months, overall survival (OS) was longer in the TAC arm with TAC-treated patients having a 24% reduction in the risk of death compared to FAC (hazard ratio = 0.76, 95% CI (0.46-1.26, p = 0.29). However, the distribution of OS was not significantly different between the 2 groups.

At the median follow-up time of 10 years and 5 months, TAC-treated patients had a 9% reduction in the risk of death compared to FAC-treated patients (hazard ratio = 0.91, 95% CI (0.63-1.32)). The survival rate was 93.7% in the TAC arm and 91.4 % in the FAC arm, at the 8-year follow-up timepoint, and 91.3 % in the TAC arm and 89 % in the FAC arm, at the 10-year follow-up timepoint.

The positive benefit risk ratio for TAC compared to FAC remained unchanged.

TAC-treated patient subsets according to prospectively defined major prognostic factors were analyzed in the primary analysis (at the median follow-up time of 77 months) (see table below):

| Subset Analyses-Adjuvant Therapy in Patients with Node-negative Breast Cancer Study (Intent-to-Treat Analysis) |
|----------------------------------------------------------|-----------------|-----------------|
| **Disease Free Survival**                                | **Hazard ratio** | **95% CI**      |
| **Patient subset**                                        | **Number of patients in TAC group** |                  |
| **Overall**                                               | 539             | 0.68            | 0.49-0.93         |
| **Age category 1**                                        |                 |                 |
| <50 years                                                 | 260             | 0.67            | 0.43-1.05         |
| ≥50 years                                                 | 279             | 0.67            | 0.43-1.05         |
| **Age category 2**                                        |                 |                 |
| <35 years                                                 | 42              | 0.31            | 0.11-0.89         |
| ≥35 years                                                 | 497             | 0.73            | 0.52-1.01         |
| **Hormonal receptor status**                              |                 |                 |
| Negative                                                 | 195             | 0.7             | 0.45-1.1          |
| Positive                                                 | 344             | 0.62            | 0.4-0.97          |
| **Tumour size**                                           |                 |                 |
| ≤2 cm                                                     | 285             | 0.69            | 0.43-1.1          |
| >2 cm                                                     | 254             | 0.68            | 0.45-1.04         |
| **Histological grade**                                   |                 |                 |
| Grade1 (includes grade not assessed)                      | 64              | 0.79            | 0.24-2.6          |
Exploratory subgroup analyses for disease-free survival for patients who meet the 2009 St. Gallen chemotherapy criteria – (ITT population) were performed and presented here below:

<table>
<thead>
<tr>
<th>Subgroups</th>
<th>TAC</th>
<th>FAC</th>
<th>Hazard ratio (TAC/FAC) (95% CI)</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting relative indication for chemotherapy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>18/214 (8.4%)</td>
<td>26/227 (11.5%)</td>
<td>0.796 (0.434 - 1.459)</td>
<td>0.4593</td>
</tr>
<tr>
<td>Yes</td>
<td>48/325 (14.8%)</td>
<td>69/294 (23.5%)</td>
<td>0.606 (0.42 - 0.877)</td>
<td>0.0072</td>
</tr>
</tbody>
</table>

TAC = docetaxel, doxorubicin and cyclophosphamide
FAC = 5-fluourouracil, doxorubicin and cyclophosphamide
CI = confidence interval
ER = estrogen receptor
PR = progesterone receptor
* ER/PR-negative or Grade 3 or tumor size >5 cm

The estimated hazard ratio was using Cox proportional hazard model with treatment group as the factor.

**TAXOTERE as single agent**

Two randomised phase III comparative studies, involving a total of 326 alkylating or 392 anthracycline failure metastatic breast cancer patients, have been performed with docetaxel at the recommended dose and regimen of 100 mg/m² every 3 weeks.

In alkylating-failure patients, docetaxel was compared to doxorubicin (75 mg/m² every 3 weeks). Without affecting overall survival time (docetaxel 15 months vs. doxorubicin 14 months, p = 0.38) or time to progression (docetaxel 27 weeks vs. doxorubicin 23 weeks, p = 0.54), docetaxel increased response rate (52% vs. 37%, p = 0.01) and shortened time to response (12 weeks vs. 23 weeks, p = 0.007). Three docetaxel patients (2%) discontinued the treatment due to fluid retention, whereas 15 doxorubicin patients (9%) discontinued due to cardiac toxicity (three cases of fatal congestive heart failure).

In anthracycline-failure patients, docetaxel was compared to the combination of mitomycin C and vinblastine (12 mg/m² every 6 weeks and 6 mg/m² every 3 weeks). Docetaxel increased response rate (33% vs. 12%, p < 0.0001), prolonged time to progression (19 weeks vs. 11 weeks, p = 0.0004) and prolonged overall survival (11 months vs. 9 months, p = 0.01).

During these two phase III studies, the safety profile of docetaxel was consistent with the safety profile observed in phase II studies (see section 4.8).

An open-label, multicenter, randomized phase III study was conducted to compare docetaxel monotherapy and paclitaxel in the treatment of advanced breast cancer in patients whose previous
therapy should have included an anthracycline. A total of 449 patients were randomized to receive either docetaxel monotherapy 100 mg/m² as a 1 hour infusion or paclitaxel 175 mg/m² as a 3 hour infusion. Both regimens were administered every 3 weeks. Without affecting the primary endpoint, overall response rate (32% vs 25%, p = 0.10), docetaxel prolonged median time to progression (24.6 weeks vs 15.6 weeks; p < 0.01) and median survival (15.3 months vs 12.7 months; p = 0.03). More grade 3/4 adverse events were observed for docetaxel monotherapy (55.4%) compared to paclitaxel (23.0%).

**TAXOTERE in combination with doxorubicin**

One large randomized phase III study, involving 429 previously untreated patients with metastatic disease, has been performed with doxorubicin (50 mg/m²) in combination with docetaxel (75 mg/m²) (AT arm) versus doxorubicin (60 mg/m²) in combination with cyclophosphamide (600 mg/m²) (AC arm). Both regimens were administered on day 1 every 3 weeks.

- Time to progression (TTP) was significantly longer in the AT arm versus AC arm, p = 0.0138. The median TTP was 37.3 weeks (95% CI: 33.4 - 42.1) in AT arm and 31.9 weeks (95% CI: 27.4 - 36.0) in AC arm.
- Overall response rate (ORR) was significantly higher in the AT arm versus AC arm, p = 0.009. The ORR was 59.3% (95% CI: 52.8 - 65.9) in AT arm versus 46.5% (95% CI: 39.8 - 53.2) in AC arm.

In this study, AT arm showed a higher incidence of severe neutropenia (90% versus 68.6%), febrile neutropenia (33.3% versus 10%), infection (8% versus 2.4%), diarrhoea (7.5% versus 1.4%), asthenia (8.5% versus 2.4%), and pain (2.8% versus 0%) than AC arm. On the other hand, AC arm showed a higher incidence of severe anemia (15.8% versus 8.5%) than AT arm, and, in addition, a higher incidence of severe cardiac toxicity: congestive heart failure (3.8% versus 2.8%), absolute LVEF decrease ≥ 20% (13.1% versus 6.1%), absolute LVEF decrease ≥ 30% (6.2% versus 1.1%). Toxic deaths occurred in 1 patient in the AT arm (congestive heart failure) and in 4 patients in the AC arm (1 due to septic shock and 3 due to congestive heart failure).

In both arms, quality of life measured by the EORTC questionnaire was comparable and stable during treatment and follow-up.

**TAXOTERE in combination with trastuzumab**

Docetaxel in combination with trastuzumab was studied for the treatment of patients with metastatic breast cancer whose tumours over express HER2, and who previously had not received chemotherapy for metastatic disease. One hundred eighty six patients were randomized to receive docetaxel (100 mg/m²) with or without trastuzumab; 60% of patients received prior anthracycline-based adjuvant chemotherapy. Docetaxel plus trastuzumab was efficacious in patients whether or not they had received prior adjuvant anthracyclines. The main test method used to determine HER2 positivity in this pivotal study was immunohistochemistry (IHC). A minority of patients were tested using fluorescence in-situ hybridization (FISH). In this study, 87% of patients had disease that was IHC 3+, and 95% of patients entered had disease that was IHC 3+ and/or FISH positive. Efficacy results are summarized in the following table:
**Parameter** | **Docetaxel plus trastuzumab**<sup>1</sup> | **Docetaxel**<sup>1</sup>  
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>n = 92</strong></td>
<td><strong>n = 94</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Response rate (95% CI)</strong></td>
<td>61% (50-71)</td>
<td>34% (25-45)</td>
</tr>
<tr>
<td><strong>Median duration of response (months) (95% CI)</strong></td>
<td>11.4 (9.2-15.0)</td>
<td>5.1 (4.4-6.2)</td>
</tr>
<tr>
<td><strong>Median TTP (months) (95% CI)</strong></td>
<td>10.6 (7.6-12.9)</td>
<td>5.7 (5.0-6.5)</td>
</tr>
<tr>
<td><strong>Median survival (months) (95% CI)</strong></td>
<td>30.5&lt;sup&gt;2&lt;/sup&gt; (26.8-ne)</td>
<td>22.1&lt;sup&gt;2&lt;/sup&gt; (17.6-28.9)</td>
</tr>
</tbody>
</table>

TTP = time to progression; “ne” indicates that it could not be estimated or it was not yet reached.  
<sup>1</sup>Full analysis set (intent-to-treat)  
<sup>2</sup> Estimated median survival

**TAXOTERE in combination with capecitabine**

Data from one multicenter, randomised, controlled phase III clinical study support the use of docetaxel in combination with capecitabine for treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy, including an anthracycline. In this study, 255 patients were randomised to treatment with docetaxel (75 mg/m² as a 1 hour intravenous infusion every 3 weeks) and capecitabine (1250 mg/m² twice daily for 2 weeks followed by 1-week rest period). 256 patients were randomised to treatment with docetaxel alone (100 mg/m² as a 1 hour intravenous infusion every 3 weeks). Survival was superior in the docetaxel + capecitabine combination arm (p = 0.0126). Median survival was 442 days (docetaxel + capecitabine) vs. 352 days (docetaxel alone). The overall objective response rates in the all-randomised population (investigator assessment) were 41.6% (docetaxel + capecitabine) vs. 29.7% (docetaxel alone); p = 0.0058. Time to progressive disease was superior in the docetaxel + capecitabine combination arm (p < 0.0001). The median time to progression was 186 days (docetaxel + capecitabine) vs. 128 days (docetaxel alone).

**Non-small cell lung cancer**

Patients previously treated with chemotherapy with or without radiotherapy

In a phase III study, in previously treated patients, time to progression (12.3 weeks versus 7 weeks) and overall survival were significantly longer for docetaxel at 75 mg/m² compared to Best Supportive Care. The 1-year survival rate was also significantly longer in docetaxel (40%) versus BSC (16%). There was less use of morphinic analgesic (p < 0.01), non-morphinic analgesics (p < 0.01), other disease-related medications (p = 0.06) and radiotherapy (p < 0.01) in patients treated with docetaxel at 75 mg/m² compared to those with BSC. The overall response rate was 6.8% in the evaluable patients, and the median duration of response was 26.1 weeks.

**TAXOTERE in combination with platinum agents in chemotherapy-naïve patients**

In a phase III study, 1218 patients with unresectable stage IIIB or IV NSCLC, with KPS of 70% or greater, and who did not receive previous chemotherapy for this condition, were randomised to either docetaxel (T) 75 mg/m² as a 1 hour infusion immediately followed by cisplatin (Cis) 75 mg/m² over 30-60 minutes every 3 weeks (TCis), docetaxel 75 mg/m² as a 1 hour infusion in combination with carboplatin (AUC 6 mg/ml.min) over 30-60 minutes every 3 weeks, or vinorelbine (V) 25 mg/m² administered over 6-10 minutes on days 1, 8, 15, 22 followed by cisplatin 100 mg/m² administered on day 1 of cycles repeated every 4 weeks (VCis).
Survival data, median time to progression and response rates for two arms of the study are illustrated in the following table:

<table>
<thead>
<tr>
<th></th>
<th>TCis n = 408</th>
<th>VCis n = 404</th>
<th>Statistical analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall survival</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Primary end-point):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>11.3</td>
<td>10.1</td>
<td>Hazard ratio: 1.122</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[97.2% CI: 0.937; 1.342]*</td>
</tr>
<tr>
<td>1-year Survival (%)</td>
<td>46</td>
<td>41</td>
<td>Treatment difference: 5.4%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: -1.1; 12.0]</td>
</tr>
<tr>
<td>2-year Survival (%)</td>
<td>21</td>
<td>14</td>
<td>Treatment difference: 6.2%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: 0.2; 12.3]</td>
</tr>
<tr>
<td>Median time to progression (weeks):</td>
<td>22.0</td>
<td>23.0</td>
<td>Hazard ratio: 1.032</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: 0.876; 1.216]</td>
</tr>
<tr>
<td>Overall response rate (%)</td>
<td>31.6</td>
<td>24.5</td>
<td>Treatment difference: 7.1%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: 0.7; 13.5]</td>
</tr>
</tbody>
</table>

*: Corrected for multiple comparisons and adjusted for stratification factors (stage of disease and region of treatment), based on evaluable patient population.

Secondary end-points included change of pain, global rating of quality of life by EuroQoL-5D, Lung Cancer Symptom Scale, and changes in Karnosfky performance status. Results on these end-points were supportive of the primary end-points results.

For docetaxel/carboplatin combination, neither equivalent nor non-inferior efficacy could be proven compared to the reference treatment combination VCis.

**Prostate cancer**

The safety and efficacy of docetaxel in combination with prednisone or prednisolone in patients with hormone refractory metastatic prostate cancer were evaluated in a randomized multicenter phase III study. A total of 1006 patients with KPS ≥ 60 were randomized to the following treatment groups:
- Docetaxel 75 mg/m² every 3 weeks for 10 cycles.
- Docetaxel 30 mg/m² administered weekly for the first 5 weeks in a 6 week cycle for 5 cycles.
- Mitoxantrone 12 mg/m² every 3 weeks for 10 cycles.
All 3 regimens were administered in combination with prednisone or prednisolone 5 mg twice daily, continuously.

Patients who received docetaxel every three weeks demonstrated significantly longer overall survival compared to those treated with mitoxantrone. The increase in survival seen in the docetaxel weekly arm was not statistically significant compared to the mitoxantrone control arm. Efficacy endpoints for the docetaxel arms versus the control arm are summarized in the following table:
Given the fact that docetaxel every week presented a slightly better safety profile than docetaxel every 3 weeks, it is possible that certain patients may benefit from docetaxel every week.

No statistical differences were observed between treatment groups for Global Quality of Life.

**Gastric adenocarcinoma**

A multicenter, open-label, randomized study was conducted to evaluate the safety and efficacy of docetaxel for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction, who had not received prior chemotherapy for metastatic disease. A total of 445 patients with KPS > 70 were treated with either docetaxel (T) (75 mg/m² on day 1) in combination with cisplatin (C) (75 mg/m² on day 1) and 5-fluorouracil (F) (750 mg/m² per day for 5 days) or cisplatin (100 mg/m² on day 1) and 5-fluorouracil (1000 mg/m² per day for 5 days). The length of a treatment cycle was 3 weeks for the TCF arm and 4 weeks for the CF arm. The median number of cycles administered per patient was 6 (with a range of 1-16) for the TCF arm compared to 4 (with a range of 1-12) for the CF arm. Time to progression (TTP) was the primary endpoint. The risk reduction of progression was 32.1% and was associated with a significantly longer TTP (p = 0.0004) in favor of the TCF arm. Overall survival was also significantly longer (p = 0.0201) in favor of the TCF arm with a risk reduction of mortality of 22.7%. Efficacy results are summarized in the following table:

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel every 3 weeks</th>
<th>Docetaxel every week</th>
<th>Mitoxantrone every 3 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of patients</td>
<td>335</td>
<td>334</td>
<td>337</td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>18.9</td>
<td>17.4</td>
<td>16.5</td>
</tr>
<tr>
<td>95% CI</td>
<td>(17.0-21.2)</td>
<td>(15.7-19.0)</td>
<td>(14.4-18.6)</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>0.761</td>
<td>0.912</td>
<td>--</td>
</tr>
<tr>
<td>95% CI</td>
<td>(0.619-0.936)</td>
<td>(0.747-1.113)</td>
<td>--</td>
</tr>
<tr>
<td>p-value*</td>
<td>0.0094</td>
<td>0.3624</td>
<td>--</td>
</tr>
</tbody>
</table>

| Number of patients                                 | 291                      | 282                  | 300                       |
| PSA** response rate (%)                            | 45.4                     | 47.9                 | 31.7                      |
| 95% CI                                             | (39.5-51.3)              | (41.9-53.9)          | (26.4-37.3)               |
| p-value*                                           | 0.0005                   | <0.0001              | --                       |

| Number of patients                                 | 153                      | 154                  | 157                       |
| Pain response rate (%)                             | 34.6                     | 31.2                 | 21.7                      |
| 95% CI                                             | (27.1-42.7)              | (24.0-39.1)          | (15.5-28.9)               |
| p-value*                                           | 0.0107                   | 0.0798               | --                       |

| Number of patients                                 | 141                      | 134                  | 137                       |
| Tumour response rate (%)                           | 12.1                     | 8.2                  | 6.6                       |
| 95% CI                                             | (7.2-18.6)               | (4.2-14.2)           | (3.0-12.1)                |
| p-value*                                           | 0.1112                   | 0.5853               | --                       |

*Stratified log rank test

** PSA: Prostate-Specific Antigen

---

**PSA**: Prostate-Specific Antigen

---

†Stratified log rank test

*Threshold for statistical significance = 0.0175
Efficacy of docetaxel in the treatment of patients with gastric adenocarcinoma

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>TCF</th>
<th>CF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median TTP (months) (95% CI)</td>
<td>5.6</td>
<td>3.7</td>
</tr>
<tr>
<td>Hazard ratio (95% CI)</td>
<td>1.473</td>
<td>(1.189-1.825)</td>
</tr>
<tr>
<td>*p-value</td>
<td>0.0004</td>
<td></td>
</tr>
<tr>
<td>Median survival (months) (95% CI)</td>
<td>9.2</td>
<td>8.6</td>
</tr>
<tr>
<td>2-year estimate (%)</td>
<td>18.4</td>
<td>8.8</td>
</tr>
<tr>
<td>Hazard ratio (95% CI)</td>
<td>1.293</td>
<td>(1.041-1.606)</td>
</tr>
<tr>
<td>*p-value</td>
<td>0.0201</td>
<td></td>
</tr>
<tr>
<td>Overall response rate (CR+PR) (%)</td>
<td>36.7</td>
<td>25.4</td>
</tr>
<tr>
<td>*p-value</td>
<td>0.0106</td>
<td></td>
</tr>
<tr>
<td>Progressive disease as best overall Response (%)</td>
<td>16.7</td>
<td>25.9</td>
</tr>
</tbody>
</table>

*Unstratified logrank test

Subgroup analyses across age, gender and race consistently favored the TCF arm compared to the CF arm.

A survival update analysis conducted with a median follow-up time of 41.6 months no longer showed a statistically significant difference although always in favour of the TCF regimen and showed that the benefit of TCF over CF is clearly observed between 18 and 30 months of follow up.

Overall, quality of life (QoL) and clinical benefit results consistently indicated improvement in favor of the TCF arm. Patients treated with TCF had a longer time to 5% definitive deterioration of global health status on the QLQ-C30 questionnaire (p = 0.0121) and a longer time to definitive worsening of Karnofsky performance status (p = 0.0088) compared to patients treated with CF.

**Head and neck cancer**

- Induction chemotherapy followed by radiotherapy (TAX323)

  The safety and efficacy of docetaxel in the induction treatment of patients with squamous cell carcinoma of the head and neck (SCCHN) was evaluated in a phase III, multicenter, open-label, randomized study (TAX323). In this study, 358 patients with inoperable locally advanced SCCHN, and WHO performance status 0 or 1, were randomized to one of two treatment arms. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² followed by cisplatin (P) 75 mg/m² followed by 5-fluorouracil (F) 750 mg/m² per day as a continuous infusion for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (≥ 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks and a maximal interval of 7 weeks, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines for 7 weeks (TPF/RT). Patients on the comparator arm received cisplatin (P) 100 mg/m² followed by 5-fluorouracil (F) 1000 mg/m² per day for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (≥ 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks and a maximal interval of 7 weeks, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines for 7 weeks (PF/RT). Locoregional therapy with radiation was delivered either with a conventional fraction (1.8 Gy - 2.0 Gy once a day, 5 days per week for a total dose of 66 to 70 Gy), or accelerated/hyperfractionated regimens of radiation therapy (twice a day, with a minimum interfraction interval of 6 hours, 5 days per week). A total of 70 Gy was recommended for accelerated regimens and 74 Gy for hyperfractionated schemes. Surgical resection was allowed following chemotherapy, before or after radiotherapy. Patients on the TPF arm received antibiotic prophylaxis...
with ciprofloxacin 500 mg orally twice daily for 10 days starting on day 5 of each cycle, or equivalent. The primary endpoint in this study, progression-free survival (PFS), was significantly longer in the TPF arm compared to the PF arm, $p = 0.0042$ (median PFS: 11.4 vs. 8.3 months respectively) with an overall median follow up time of 33.7 months. Median overall survival was also significantly longer in favor of the TPF arm compared to the PF arm (median OS: 18.6 vs. 14.5 months respectively) with a 28% risk reduction of mortality, $p = 0.0128$. Efficacy results are presented in the table below:

Efficacy of docetaxel in the induction treatment of patients with inoperable locally advanced SCCHN (Intent-to-Treat Analysis)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel + Cis + 5-FU</th>
<th>Cis + 5-FU</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>n</strong></td>
<td><strong>177</strong></td>
<td><strong>181</strong></td>
</tr>
<tr>
<td>Median progression free survival (months) (95% CI)</td>
<td>11.4 (10.1-14.0)</td>
<td>8.3 (7.4-9.1)</td>
</tr>
<tr>
<td>Adjusted hazard ratio (95% CI)</td>
<td>0.70 (0.55-0.89)</td>
<td>0.0042</td>
</tr>
<tr>
<td>Median survival (months) (95% CI)</td>
<td>18.6 (15.7-24.0)</td>
<td>14.5 (11.6-18.7)</td>
</tr>
<tr>
<td>Hazard ratio (95% CI)</td>
<td>0.72 (0.56-0.93)</td>
<td>0.0128</td>
</tr>
<tr>
<td>Best overall response to chemotherapy (%) (95% CI)</td>
<td>67.8 (60.4-74.6)</td>
<td>53.6 (46.0-61.0)</td>
</tr>
<tr>
<td>***p-value</td>
<td>0.006</td>
<td></td>
</tr>
<tr>
<td>Best overall response to study treatment [chemotherapy +/- radiotherapy] (%) (95% CI)</td>
<td>72.3 (65.1-78.8)</td>
<td>58.6 (51.0-65.8)</td>
</tr>
<tr>
<td>***p-value</td>
<td>0.006</td>
<td></td>
</tr>
<tr>
<td>Median duration of response to chemotherapy ± radiotherapy (months) (95% CI)</td>
<td>n = 128 15.7 (13.4-24.6)</td>
<td>n = 106 11.7 (10.2-17.4)</td>
</tr>
<tr>
<td>Hazard ratio (95% CI)</td>
<td>0.72 (0.52-0.99)</td>
<td>0.0457</td>
</tr>
</tbody>
</table>

A hazard ratio of less than 1 favors docetaxel + cisplatin + 5-FU

*Cox model (adjustment for Primary tumour site, T and N clinical stages and PSWHO)

**Logrank test

*** Chi-square test

Quality of life parameters

Patients treated with TPF experienced significantly less deterioration of their Global health score compared to those treated with PF ($p = 0.01$, using the EORTC QLQ-C30 scale).

Clinical benefit parameters

The performance status scale, for head and neck (PSS-HN) subscales designed to measure understandability of speech, ability to eat in public, and normalcy of diet, was significantly in favor of TPF as compared to PF.

Median time to first deterioration of WHO performance status was significantly longer in the TPF arm compared to PF. Pain intensity score improved during treatment in both groups indicating adequate pain management.
• Induction chemotherapy followed by chemoradiotherapy (TAX324)
The safety and efficacy of docetaxel in the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck (SCCHN) was evaluated in a randomized, multicenter open-label, phase III study (TAX324). In this study, 501 patients, with locally advanced SCCHN, and a WHO performance status of 0 or 1, were randomized to one of two arms. The study population comprised patients with technically unresectable disease, patients with low probability of surgical cure and patients aiming at organ preservation. The efficacy and safety evaluation solely addressed survival endpoints and the success of organ preservation was not formally addressed. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² by intravenous infusion on day 1 followed by cisplatin (P) 100 mg/m² administered as a 30-minute to three-hour intravenous infusion, followed by the continuous intravenous infusion of 5-fluorouracil (F) 1000 mg/m²/day from day 1 to day 4. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive chemoradiotherapy (CRT) as per protocol (TPF/CRT). Patients on the comparator arm received cisplatin (P) 100 mg/m² as a 30-minute to three-hour intravenous infusion on day 1 followed by the continuous intravenous infusion of 5-fluorouracil (F) 1000 mg/m²/day from day 1 to day 5. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive CRT as per protocol (PF/CRT).

Patients in both treatment arms were to receive 7 weeks of CRT following induction chemotherapy with a minimum interval of 3 weeks and no later than 8 weeks after start of the last cycle (day 22 to day 56 of last cycle). During radiotherapy, carboplatin (AUC 1.5) was given weekly as a one-hour intravenous infusion for a maximum of 7 doses. Radiation was delivered with megavoltage equipment using once daily fractionation (2 Gy per day, 5 days per week for 7 weeks, for a total dose of 70-72 Gy). Surgery on the primary site of disease and/or neck could be considered at anytime following completion of CRT. All patients on the docetaxel-containing arm of the study received prophylactic antibiotics. The primary efficacy endpoint in this study, overall survival (OS) was significantly longer (log-rank test, p = 0.0058) with the docetaxel-containing regimen compared to PF (median OS: 70.6 versus 30.1 months respectively), with a 30% risk reduction in mortality compared to PF (hazard ratio (HR) = 0.70, 95% confidence interval (CI) = 0.54-0.90) with an overall median follow up time of 41.9 months. The secondary endpoint, PFS, demonstrated a 29% risk reduction of progression or death and a 22 month improvement in median PFS (35.5 months for TPF and 13.1 for PF). This was also statistically significant with an HR of 0.71; 95% CI 0.56-0.90; log-rank test p = 0.004. Efficacy results are presented in the table below:
Efficacy of docetaxel in the induction treatment of patients with locally advanced SCCHN (Intent-to-Treat Analysis)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel + Cis + 5-FU</th>
<th>Cis + 5-FU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median overall survival (months) (95% CI)</td>
<td>70.6 (49.0-NA)</td>
<td>30.1 (20.9-51.5)</td>
</tr>
<tr>
<td>Hazard ratio: (95% CI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*p-value</td>
<td>0.70</td>
<td>0.0058</td>
</tr>
<tr>
<td>Median PFS (months) (95% CI)</td>
<td>35.5 (19.3-NA)</td>
<td>13.1 (10.6-20.2)</td>
</tr>
<tr>
<td>Hazard ratio: (95% CI)</td>
<td>0.71</td>
<td>0.004</td>
</tr>
<tr>
<td>**p-value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Best overall response (CR + PR) to chemotherapy (%) (95% CI)</td>
<td>71.8 (65.8-77.2)</td>
<td>64.2 (57.9-70.2)</td>
</tr>
<tr>
<td>***p-value</td>
<td></td>
<td>0.209</td>
</tr>
<tr>
<td>Best overall response (CR + PR) to study treatment [chemotherapy +/- chemoradiotherapy] (%) (95%CI)</td>
<td>76.5 (70.8-81.5)</td>
<td>71.5 (65.5-77.1)</td>
</tr>
<tr>
<td>***p-value</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A hazard ratio of less than 1 favors docetaxel + cisplatin + fluorouracil
*un-adjusted log-rank test
**un-adjusted log-rank test, not adjusted for multiple comparisons
***Chi square test, not adjusted for multiple comparisons
NA-not applicable

Paediatric population

The European Medicines Agency has waived the obligation to submit the results of studies with TAXOTERE in all subsets of the paediatric population in breast cancer, non-small cell lung cancer, prostated cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma (see section 4.2 for information on paediatric use).

5.2 Pharmacokinetic properties

Absorption

The pharmacokinetics of docetaxel have been evaluated in cancer patients after administration of 20-115 mg/m² in phase I studies. The kinetic profile of docetaxel is dose independent and consistent with a three-compartment pharmacokinetic model with half lives for the $\alpha$, $\beta$ and $\gamma$ phases of 4 min, 36 min and 11.1 h, respectively. The late phase is due, in part, to a relatively slow efflux of docetaxel from the peripheral compartment.

Distribution

Following the administration of a 100 mg/m² dose given as a one-hour infusion a mean peak plasma level of 3.7 µg/ml was obtained with a corresponding AUC of 4.6 h.µg/ml. Mean values for total body clearance and steady-state volume of distribution were 21 l/h/m² and 113 l, respectively. Inter individual variation in total body clearance was approximately 50%. Docetaxel is more than 95% bound to plasma proteins.
Elimination

A study of $^{14}$C-docetaxel has been conducted in three cancer patients. Docetaxel was eliminated in both the urine and faeces following cytochrome P450-mediated oxidative metabolism of the tert-butyl ester group, within seven days, the urinary and faecal excretion accounted for about 6% and 75% of the administered radioactivity, respectively. About 80% of the radioactivity recovered in faeces is excreted during the first 48 hours as one major inactive metabolite and 3 minor inactive metabolites and very low amounts of unchanged medicinal product.

Special populations

Age and gender
A population pharmacokinetic analysis has been performed with docetaxel in 577 patients. Pharmacokinetic parameters estimated by the model were very close to those estimated from phase I studies. The pharmacokinetics of docetaxel were not altered by the age or sex of the patient.

Hepatic impairment
In a small number of patients (n = 23) with clinical chemistry data suggestive of mild to moderate liver function impairment (ALT, AST $\geq$ 1.5 times the ULN associated with alkaline phosphatase $\geq$ 2.5 times the ULN), total clearance was lowered by 27% on average (see section 4.2).

Fluid retention
Docetaxel clearance was not modified in patients with mild to moderate fluid retention and there are no data available in patients with severe fluid retention.

Combination therapy

Doxorubicin
When used in combination, docetaxel does not influence the clearance of doxorubicin and the plasma levels of doxorubicinol (a doxorubicin metabolite). The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their coadministration.

Capecitabine
Phase I study evaluating the effect of capecitabine on the pharmacokinetics of docetaxel and vice versa showed no effect by capecitabine on the pharmacokinetics of docetaxel ($C_{\text{max}}$ and AUC) and no effect by docetaxel on the pharmacokinetics of a relevant capecitabine metabolite 5'-DFUR.

Cisplatin
Clearance of docetaxel in combination therapy with cisplatin was similar to that observed following monotherapy. The pharmacokinetic profile of cisplatin administered shortly after docetaxel infusion is similar to that observed with cisplatin alone.

5-fluorouracil
The combined administration of docetaxel, cisplatin and 5-fluorouracil in 12 patients with solid tumours had no influence on the pharmacokinetics of each individual medicinal product.

Prednisone and dexamethasone
The effect of prednisone on the pharmacokinetics of docetaxel administered with standard dexamethasone premedication has been studied in 42 patients.

Prednisone
No effect of prednisone on the pharmacokinetics of docetaxel was observed.

5.3 Preclinical safety data
The carcinogenic potential of docetaxel has not been studied.
Docetaxel has been shown to be mutagenic in the *in vitro* micronucleus and chromosome aberration test in CHO-K1 cells and in the *in vivo* micronucleus test in the mouse. However, it did not induce mutagenicity in the Ames test or the CHO/HGPRT gene mutation assay. These results are consistent with the pharmacological activity of docetaxel.

Undesirable effects on the testis observed in rodent toxicity studies suggest that docetaxel may impair male fertility.

6. **PHARMACEUTICAL PARTICULARS**

6.1 **List of excipients**

Concentrate vial:
- polysorbate 80
- citric acid.

Solvent vial:
- ethanol 95%
- water for injections.

6.2 **Incompatibilities**

This medicinal product must not be mixed with other medicinal products except those mentioned in section 6.6.

6.3 **Shelf-life**

- 3 years.
- Premix solution: The premix solution contains 10 mg/ml docetaxel and should be used immediately after preparation. However the chemical and physical stability of the premix solution has been demonstrated for 8 hours when stored either between 2°C and 8°C or at room temperature (below 25°C).
- Infusion solution: the infusion solution should be used within 4 hours at room temperature (below 25°C).

6.4 **Special precautions for storage**

Do not store above 25°C or below 2°C.
Store in the original package in order to protect from light.
For storage conditions of the diluted medicinal product, see section 6.3.

6.5 **Nature and contents of container**

Each blister pack contains:
- one single-dose vial of concentrate and,
- one single-dose vial of solvent.

**TAXOTERE 80 mg/2 ml concentrate for solution for infusion vial**

15 ml clear glass Type I vial with a red flip-off cap.

This vial contains 2 ml of a 40 mg/ml solution of docetaxel in polysorbate 80 (fill volume: 94.4 mg/2.36 ml). This fill volume has been established during the development of TAXOTERE to compensate for liquid loss during preparation of the premix due to foaming, adhesion to the walls of the vial and "dead-volume". This overfill ensures that after dilution with the entire contents of the
accompanying solvent for TAXOTERE vial, there is a minimal extractable premix volume of 8 ml containing 10 mg/ml docetaxel which corresponds to the labelled amount of 80 mg/2 ml per vial.

**Solvent vial**

15 ml clear glass Type I vial with a transparent colourless flip-off cap.

Solvent vial contains 6 ml of a 13% w/w solution of ethanol 95% in water for injections (fill volume: 7.33 ml). The addition of the entire contents of the solvent vial to the contents of the TAXOTERE 80 mg/2 ml concentrate for solution for infusion vial ensures a premix concentration of 10 mg/ml docetaxel.

6.6 **Special precautions for disposal and other handling**

TAXOTERE is an antineoplastic agent and, as with other potentially toxic compounds, caution should be exercised when handling it and preparing TAXOTERE solutions. The use of gloves is recommended.

If TAXOTERE concentrate, premix solution or infusion solution should come into contact with skin, wash immediately and thoroughly with soap and water. If TAXOTERE concentrate, premix solution or infusion solution should come into contact with mucous membranes, wash immediately and thoroughly with water.

**Preparation for the intravenous administration**

*a) Preparation of the TAXOTERE premix solution (10 mg docetaxel/ml)*

If the vials are stored under refrigeration, allow the required number of TAXOTERE boxes to stand at room temperature (below 25°C) for 5 minutes.

Using a syringe fitted with a needle, aseptically withdraw the entire contents of the solvent for TAXOTERE vial by partially inverting the vial.

Inject the entire contents of the syringe into the corresponding TAXOTERE vial.

Remove the syringe and needle and mix manually by repeated inversions for at least 45 seconds. Do not shake.

Allow the premix vial to stand for 5 minutes at room temperature (below 25°C) and then check that the solution is homogenous and clear (foaming is normal even after 5 minutes due to the presence of polysorbate 80 in the formulation).

The premix solution contains 10 mg/ml docetaxel and should be used immediately after preparation. However the chemical and physical stability of the premix solution has been demonstrated for 8 hours when stored either between 2°C and 8°C or at room temperature (below 25°C).

*b) Preparation of the infusion solution*

More than one premix vial may be necessary to obtain the required dose for the patient. Based on the required dose for the patient expressed in mg, aseptically withdraw the corresponding premix volume containing 10 mg/ml docetaxel from the appropriate number of premix vials using graduated syringes fitted with a needle. For example, a dose of 140 mg docetaxel would require 14 ml docetaxel premix solution.

Inject the required premix volume into a 250 ml infusion bag or bottle containing either 5% glucose solution or sodium chloride 9 mg/ml (0.9%) solution for infusion.
If a dose greater than 200 mg of docetaxel is required, use a larger volume of the infusion vehicle so that a concentration of 0.74 mg/ml docetaxel is not exceeded.

Mix the infusion bag or bottle manually using a rocking motion.

The TAXOTERE infusion solution should be used within 4 hours and should be aseptically administered as a 1-hour infusion under room temperature (below 25°C) and normal lighting conditions.

As with all parenteral products, TAXOTERE premix solution and infusion solution should be visually inspected prior to use, solutions containing a precipitate should be discarded.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER
Aventis Pharma S.A., 20 avenue Raymond Aron, 92165 Antony Cedex, France

8. MARKETING AUTHORISATION NUMBER
EU/1/95/002/002

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION
Date of first authorisation: 27 November 1995
Date of latest renewal: 27 November 2005

10. DATE OF REVISION OF THE TEXT
Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.
1. NAME OF THE MEDICINAL PRODUCT

TAXOTERE 20 mg/1 ml concentrate for solution for infusion

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each ml of concentrate contains 20 mg docetaxel (as trihydrate).

One vial of 1 ml of concentrate contains 20 mg of docetaxel.

Excipient with known effect:
Each vial of concentrate contains 0.5 ml of ethanol anhydrous (395 mg).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Concentrate for solution for infusion (sterile concentrate).

The concentrate is a pale yellow to brownish-yellow solution.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Breast cancer

TAXOTERE in combination with doxorubicin and cyclophosphamide is indicated for the adjuvant treatment of patients with:
- operable node-positive breast cancer
- operable node-negative breast cancer.

For patients with operable node-negative breast cancer, adjuvant treatment should be restricted to patients eligible to receive chemotherapy according to internationally established criteria for primary therapy of early breast cancer (see section 5.1).

TAXOTERE in combination with doxorubicin is indicated for the treatment of patients with locally advanced or metastatic breast cancer who have not previously received cytotoxic therapy for this condition.

TAXOTERE monotherapy is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic therapy. Previous chemotherapy should have included an anthracycline or an alkylating agent.

TAXOTERE in combination with trastuzumab is indicated for the treatment of patients with metastatic breast cancer whose tumours over express HER2 and who previously have not received chemotherapy for metastatic disease.

TAXOTERE in combination with capecitabine is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy. Previous therapy should have included an anthracycline.
Non-small cell lung cancer

TAXOTERE is indicated for the treatment of patients with locally advanced or metastatic non-small cell lung cancer after failure of prior chemotherapy.

TAXOTERE in combination with cisplatin is indicated for the treatment of patients with unresectable, locally advanced or metastatic non-small cell lung cancer, in patients who have not previously received chemotherapy for this condition.

Prostate cancer

TAXOTERE in combination with prednisone or prednisolone is indicated for the treatment of patients with hormone refractory metastatic prostate cancer.

Gastric adenocarcinoma

TAXOTERE in combination with cisplatin and 5-fluorouracil is indicated for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction, who have not received prior chemotherapy for metastatic disease.

Head and neck cancer

TAXOTERE in combination with cisplatin and 5-fluorouracil is indicated for the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck.

4.2 Posology and method of administration

The use of docetaxel should be confined to units specialised in the administration of cytotoxic chemotherapy and it should only be administered under the supervision of a physician qualified in the use of anticancer chemotherapy (see section 6.6).

Recommended dose

For breast, non-small cell lung, gastric, and head and neck cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day (e.g. 8 mg BID) for 3 days starting 1 day prior to docetaxel administration, unless contraindicated, can be used (see section 4.4). Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities.

For prostate cancer, given the concurrent use of prednisone or prednisolone the recommended premedication regimen is oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the docetaxel infusion (see section 4.4).

Docetaxel is administered as a one-hour infusion every three weeks.

Breast cancer

In the adjuvant treatment of operable node-positive and node-negative breast cancer, the recommended dose of docetaxel is 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² every 3 weeks for 6 cycles (TAC regimen) (see also Dose adjustments during treatment). For the treatment of patients with locally advanced or metastatic breast cancer, the recommended dose of docetaxel is 100 mg/m² in monotherapy. In first-line treatment, docetaxel 75 mg/m² is given in combination therapy with doxorubicin (50 mg/m²).

In combination with trastuzumab the recommended dose of docetaxel is 100 mg/m² every three weeks, with trastuzumab administered weekly. In the pivotal study the initial docetaxel infusion was started the day following the first dose of trastuzumab. The subsequent docetaxel doses were administered immediately after completion of the trastuzumab infusion, if the preceding dose of trastuzumab was well tolerated. For trastuzumab dose and administration, see trastuzumab summary of product characteristics.
In combination with capecitabine, the recommended dose of docetaxel is 75 mg/m² every three weeks, combined with capecitabine at 1250 mg/m² twice daily (within 30 minutes after a meal) for 2 weeks followed by a 1-week rest period. For capecitabine dose calculation according to body surface area, see capecitabine summary of product characteristics.

**Non-small cell lung cancer**
In chemotherapy naïve patients treated for non-small cell lung cancer, the recommended dose regimen is docetaxel 75 mg/m² immediately followed by cisplatin 75 mg/m² over 30-60 minutes. For treatment after failure of prior platinum-based chemotherapy, the recommended dose is 75 mg/m² as a single agent.

**Prostate cancer**
The recommended dose of docetaxel is 75 mg/m². Prednisone or prednisolone 5 mg orally twice daily is administered continuously (see section 5.1).

**Gastric adenocarcinoma**
The recommended dose of docetaxel is 75 mg/m² as a 1-hour infusion, followed by cisplatin 75 mg/m², as a 1- to 3-hour infusion (both on day 1 only), followed by 5-fluorouracil 750 mg/m² per day given as a 24-hour continuous infusion for 5 days, starting at the end of the cisplatin infusion. Treatment is repeated every three weeks. Patients must receive premedication with antiemetics and appropriate hydration for cisplatin administration. Prophylactic G-CSF should be used to mitigate the risk of haematological toxicities (see also Dose adjustments during treatment).

**Head and neck cancer**
Patients must receive premedication with antiemetics and appropriate hydration (prior to and after cisplatin administration). Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities. All patients on the docetaxel-containing arm of the TAX 323 and TAX 324 studies, received prophylactic antibiotics.

- Induction chemotherapy followed by radiotherapy (TAX 323)
  For the induction treatment of inoperable locally advanced squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1 hour infusion followed by cisplatin 75 mg/m² over 1 hour, on day one, followed by 5-fluorouracil as a continuous infusion at 750 mg/m² per day for five days. This regimen is administered every 3 weeks for 4 cycles. Following chemotherapy, patients should receive radiotherapy.

- Induction chemotherapy followed by chemoradiotherapy (TAX 324)
  For the induction treatment of patients with locally advanced (technically unresectable, low probability of surgical cure, and aiming at organ preservation) squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1 hour intravenous infusion on day 1, followed by cisplatin 100 mg/m² administered as a 30-minute to 3-hour infusion, followed by 5-fluorouracil 1000 mg/m³/day as a continuous infusion from day 1 to day 4. This regimen is administered every 3 weeks for 3 cycles. Following chemotherapy, patients should receive chemoradiotherapy.

For cisplatin and 5-fluorouracil dose modifications, see the corresponding summary of product characteristics.

**Dose adjustments during treatment**

**General**
Docetaxel should be administered when the neutrophil count is ≥ 1,500 cells/mm³.
In patients who experienced either febrile neutropenia, neutrophil count < 500 cells/mm³ for more than one week, severe or cumulative cutaneous reactions or severe peripheral neuropathy during docetaxel therapy, the dose of docetaxel should be reduced from 100 mg/m² to 75 mg/m² and/or from 75 to
60 mg/m². If the patient continues to experience these reactions at 60 mg/m², the treatment should be discontinued.

**Adjuvant therapy for breast cancer**
Primary G-CSF prophylaxis should be considered in patients who receive docetaxel, doxorubicin and cyclophosphamide (TAC) adjuvant therapy for breast cancer. Patients who experience febrile neutropenia and/or neutropenic infection should have their docetaxel dose reduced to 60 mg/m² in all subsequent cycles (see sections 4.4 and 4.8). Patients who experience Grade 3 or 4 stomatitis should have their dose decreased to 60 mg/m².

**In combination with cisplatin**
For patients who are dosed initially at docetaxel 75 mg/m² in combination with cisplatin and whose nadir of platelet count during the previous course of therapy is < 25,000 cells/mm³, or in patients who experience febrile neutropenia, or in patients with serious non-haematologic toxicities, the docetaxel dose in subsequent cycles should be reduced to 65 mg/m². For cisplatin dose adjustments, see the corresponding summary of product characteristics.

**In combination with capecitabine**
- For capecitabine dose modifications, see capecitabine summary of product characteristics.
- For patients developing the first appearance of Grade 2 toxicity, which persists at the time of the next docetaxel/capecitabine treatment, delay treatment until resolved to Grade 0-1, and resume at 100% of the original dose.
- For patients developing the second appearance of Grade 2 toxicity, or the first appearance of Grade 3 toxicity, at any time during the treatment cycle, delay treatment until resolved to Grade 0-1 and then resume treatment with docetaxel 55 mg/m².
- For any subsequent appearances of toxicities, or any Grade 4 toxicities, discontinue the docetaxel dose.

For trastuzumab dose modifications, see trastuzumab summary of product characteristics.

**In combination with cisplatin and 5-fluorouracil**
If an episode of febrile neutropenia, prolonged neutropenia or neutropenic infection occurs despite G-CSF use, the docetaxel dose should be reduced from 75 to 60 mg/m². If subsequent episodes of complicated neutropenia occur the docetaxel dose should be reduced from 60 to 45 mg/m². In case of Grade 4 thrombocytopenia the docetaxel dose should be reduced from 75 to 60 mg/m². Patients should not be retreated with subsequent cycles of docetaxel until neutrophils recover to a level > 1,500 cells/mm³ and platelets recover to a level > 100,000 cells/mm³. Discontinue treatment if these toxicities persist (see section 4.4).

Recommended dose modifications for toxicities in patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (5-FU):

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Dose adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diarrhoea grade 3</td>
<td>First episode: reduce 5-FU dose by 20%.</td>
</tr>
<tr>
<td></td>
<td>Second episode: then reduce docetaxel dose by 20%.</td>
</tr>
<tr>
<td>Diarrhoea grade 4</td>
<td>First episode: reduce docetaxel and 5-FU doses by 20%.</td>
</tr>
<tr>
<td>Stomatitis/mucositis grade 3</td>
<td>First episode: reduce 5-FU dose by 20%.</td>
</tr>
<tr>
<td></td>
<td>Second episode: stop 5-FU only, at all subsequent cycles.</td>
</tr>
<tr>
<td></td>
<td>Third episode: reduce docetaxel dose by 20%.</td>
</tr>
<tr>
<td>Stomatitis/mucositis grade 4</td>
<td>First episode: stop 5-FU only, at all subsequent cycles.</td>
</tr>
<tr>
<td></td>
<td>Second episode: reduce docetaxel dose by 20%.</td>
</tr>
</tbody>
</table>

For cisplatin and 5-fluorouracil dose adjustments, see the corresponding summary of product characteristics.
In the pivotal SCCHN studies patients who experienced complicated neutropenia (including prolonged neutropenia, febrile neutropenia, or infection), it was recommended to use G-CSF to provide prophylactic coverage (eg, day 6-15) in all subsequent cycles.

**Special populations**

*Patients with hepatic impairment*

Based on pharmacokinetic data with docetaxel at 100 mg/m² as single agent, patients who have both elevations of transaminase (ALT and/or AST) greater than 1.5 times the upper limit of the normal range (ULN) and alkaline phosphatase greater than 2.5 times the ULN, the recommended dose of docetaxel is 75 mg/m² (see sections 4.4 and 5.2). For those patients with serum bilirubin > ULN and/or ALT and AST > 3.5 times the ULN associated with alkaline phosphatase > 6 times the ULN, no dose-reduction can be recommended and docetaxel should not be used unless strictly indicated.

In combination with cisplatin and 5-fluorouracil for the treatment of patients with gastric adenocarcinoma, the pivotal clinical study excluded patients with ALT and/or AST > 1.5 × ULN associated with alkaline phosphatase > 2.5 × ULN, and bilirubin > 1 × ULN; for these patients, no dose-reductions can be recommended and docetaxel should not be used unless strictly indicated. No data are available in patients with hepatic impairment treated by docetaxel in combination in the other indications.

*Paediatric population*

The safety and efficacy of TAXOTERE in nasopharyngeal carcinoma in children aged 1 month to less than 18 years have not yet been established.

There is no relevant use of TAXOTERE in the paediatric population in the indications breast cancer, non-small cell lung cancer, prostate cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma.

*Older people*

Based on a population pharmacokinetic analysis, there are no special instructions for use in the older people.

In combination with capecitabine, for patients 60 years of age or more, a starting dose reduction of capecitabine to 75% is recommended (see capecitabine summary of product characteristics).

### 4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Patients with baseline neutrophil count of < 1,500 cells/mm³.

Patients with severe liver impairment (see sections 4.2 and 4.4).

Contraindications for other medicinal products also apply, when combined with docetaxel.

### 4.4 Special warnings and precautions for use

For breast and non-small cell lung cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day (e.g. 8 mg BID) for 3 days starting 1 day prior to docetaxel administration, unless contraindicated, can reduce the incidence and severity of fluid retention as well as the severity of hypersensitivity reactions. For prostate cancer, the premedication is oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the docetaxel infusion (see section 4.2).

**Haematology**

Neutropenia is the most frequent adverse reaction of docetaxel. Neutrophil nadirs occurred at a median of 7 days but this interval may be shorter in heavily pre-treated patients. Frequent monitoring of complete blood counts should be conducted on all patients receiving docetaxel. Patients should be retreated with docetaxel when neutrophils recover to a level ≥ 1,500 cells/mm³ (see section 4.2).
In the case of severe neutropenia (< 500 cells/mm³ for seven days or more) during a course of docetaxel therapy, a reduction in dose for subsequent courses of therapy or the use of appropriate symptomatic measures are recommended (see section 4.2).

In patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (TCF), febrile neutropenia and neutropenic infection occurred at lower rates when patients received prophylactic G-CSF. Patients treated with TCF should receive prophylactic G-CSF to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients receiving TCF should be closely monitored (see sections 4.2 and 4.8).

In patients treated with docetaxel in combination with doxorubicin and cyclophosphamide (TAC), febrile neutropenia and/or neutropenic infection occurred at lower rates when patients received primary G-CSF prophylaxis. Primary G-CSF prophylaxis should be considered in patients who receive adjuvant therapy with TAC for breast cancer to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients receiving TAC should be closely monitored (see sections 4.2 and 4.8).

**Hypersensitivity reactions**

Patients should be observed closely for hypersensitivity reactions especially during the first and second infusions. Hypersensitivity reactions may occur within a few minutes following the initiation of the infusion of docetaxel, thus facilities for the treatment of hypotension and bronchospasm should be available. If hypersensitivity reactions occur, minor symptoms such as flushing or localised cutaneous reactions do not require interruption of therapy. However, severe reactions, such as severe hypotension, bronchospasm or generalised rash/erythema require immediate discontinuation of docetaxel and appropriate therapy. Patients who have developed severe hypersensitivity reactions should not be re-challenged with docetaxel.

**Cutaneous reactions**

Localised skin erythema of the extremities (palms of the hands and soles of the feet) with oedema followed by desquamation has been observed. Severe symptoms such as eruptions followed by desquamation which lead to interruption or discontinuation of docetaxel treatment were reported (see section 4.2).

**Fluid retention**

Patients with severe fluid retention such as pleural effusion, pericardial effusion and ascites should be monitored closely.

**Respiratory disorders**

Acute respiratory distress syndrome, interstitial pneumonia/pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure have been reported and may be associated with fatal outcome. Cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.

If new or worsening pulmonary symptoms develop, patients should be closely monitored, promptly investigated, and appropriately treated. Interruption of docetaxel therapy is recommended until diagnosis is available. Early use of supportive care measures may help improve the condition. The benefit of resuming docetaxel treatment must be carefully evaluated.

**Patients with liver impairment**

In patients treated with docetaxel at 100 mg/m² as single agent who have serum transaminase levels (ALT and/or AST) greater than 1.5 times the ULN concurrent with serum alkaline phosphatase levels greater than 2.5 times the ULN, there is a higher risk of developing severe adverse reactions such as
toxic deaths including sepsis and gastrointestinal haemorrhage which can be fatal, febrile neutropenia, infections, thrombocytopenia, stomatitis and asthenia. Therefore, the recommended dose of docetaxel in those patients with elevated liver function test (LFTs) is 75 mg/m² and LFTs should be measured at baseline and before each cycle (see section 4.2).

For patients with serum bilirubin levels > ULN and/or ALT > 3.5 times the ULN concurrent with serum alkaline phosphatase levels > 6 times the ULN, no dose-reduction can be recommended and docetaxel should not be used unless strictly indicated.

In combination with cisplatin and 5-fluorouracil for the treatment of patients with gastric adenocarcinoma, the pivotal clinical study excluded patients with ALT and/or AST > 1.5 × ULN associated with alkaline phosphatase > 2.5 × ULN, and bilirubin > 1 × ULN; for these patients, no dose-reductions can be recommended and docetaxel should not be used unless strictly indicated. No data are available in patients with hepatic impairment treated by docetaxel in combination in the other indications.

**Patients with renal impairment**

There are no data available in patients with severely impaired renal function treated with docetaxel.

**Nervous system**

The development of severe peripheral neurotoxicity requires a reduction of dose (see section 4.2).

**Cardiac toxicity**

Heart failure has been observed in patients receiving docetaxel in combination with trastuzumab, particularly following anthracycline (doxorubicin or epirubicin)-containing chemotherapy. This may be moderate to severe and has been associated with death (see section 4.8).

When patients are candidates for treatment with docetaxel in combination with trastuzumab, they should undergo baseline cardiac assessment. Cardiac function should be further monitored during treatment (e.g. every three months) to help identify patients who may develop cardiac dysfunction. For more details see summary of product characteristics of trastuzumab.

Ventricular arrhythmia including ventricular tachycardia (sometimes fatal) has been reported in patients treated with docetaxel in combination regimens including doxorubicin, 5-fluorouracil and/or cyclophosphamide (see section 4.8).

Baseline cardiac assessment is recommended

**Eye disorders**

Cystoid macular oedema (CMO) has been reported in patients treated with docetaxel. Patients with impaired vision should undergo a prompt and complete ophthalmologic examination. In case CMO is diagnosed, docetaxel treatment should be discontinued and appropriate treatment initiated (see section 4.8).

**Others**

Contraceptive measures must be taken by both men and women during treatment and for men at least 6 months after cessation of therapy (see section 4.6).

The concomitant use of docetaxel with strong CYP3A4 inhibitors (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin and voriconazole) should be avoided (see section 4.5).

**Additional cautions for use in adjuvant treatment of breast cancer**

*Complicated neutropenia*
For patients who experience complicated neutropenia (prolonged neutropenia, febrile neutropenia or infection), G-CSF and dose reduction should be considered (see section 4.2).

**Gastrointestinal reactions**
Symptoms such as early abdominal pain and tenderness, fever, diarrhoea, with or without neutropenia, may be early manifestations of serious gastrointestinal toxicity and should be evaluated and treated promptly.

**Congestive heart failure (CHF)**
Patients should be monitored for symptoms of congestive heart failure during therapy and during the follow up period. In patients treated with the TAC regimen for node positive breast cancer, the risk of CHF has been shown to be higher during the first year after treatment (see sections 4.8 and 5.1).

**Leukaemia**
In the docetaxel, doxorubicin and cyclophosphamide (TAC) treated patients, the risk of delayed myelodysplasia or myeloid leukaemia requires haematological follow-up.

**Patients with 4+ nodes**
As the benefit observed in patient with 4+ nodes was not statistically significant on disease-free survival (DFS) and overall survival (OS), the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis (see section 5.1).

**Older people**
There are limited data available in patients > 70 years of age on docetaxel use in combination with doxorubicin and cyclophosphamide.

Of the 333 patients treated with docetaxel every three weeks in a prostate cancer study, 209 patients were 65 years of age or greater and 68 patients were older than 75 years. In patients treated with docetaxel every three weeks, the incidence of related nail changes occurred at a rate ≥ 10% higher in patients who were 65 years of age or greater compared to younger patients. The incidence of related fever, diarrhoea, anorexia, and peripheral oedema occurred at rates ≥ 10% higher in patients who were 75 years of age or greater versus less than 65 years.

Among the 300 (221 patients in the phase III part of the study and 79 patients in the phase II part) patients treated with docetaxel in combination with cisplatin and 5-fluorouracil in the gastric cancer study, 74 were 65 years of age or older and 4 patients were 75 years of age or older. The incidence of serious adverse events was higher in older people compared to younger patients. The incidence of the following adverse events (all grades): lethargy, stomatitis, neutropenic infection occurred at rates ≥ 10% higher in patients who were 65 years of age or older compared to younger patients. Older people treated with TCF should be closely monitored.

**Excipients**
This medicinal product contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 395 mg ethanol anhydrous per vial, equivalent to 10 ml of beer or 4 ml wine per vial.
Harmful for those suffering from alcoholism.
To be taken into account in pregnant or breast-feeding women, children and high-risk groups such as patients with liver disease, or epilepsy.

Consideration should be given to possible effects on the central nervous system.

The amount of alcohol in this medicinal product may alter the effects of other medicinal products.

The amount of alcohol in this medicinal product may impair the patients ability to drive or use machines (see section 4.7).
4.5 Interaction with other medicinal products and other forms of interaction

*In vitro* studies have shown that the metabolism of docetaxel may be modified by the concomitant administration of compounds which induce, inhibit or are metabolised by (and thus may inhibit the enzyme competitively) cytochrome P450-3A such as ciclosporine, ketoconazole and erythromycin. As a result, caution should be exercised when treating patients with these medicinal products as concomitant therapy since there is a potential for a significant interaction.

In case of combination with CYP3A4 inhibitors, the occurrence of docetaxel adverse reactions may increase, as a result of reduced metabolism. If the concomitant use of a strong CYP3A4 inhibitor (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin and voriconazole) cannot be avoided, a close clinical surveillance is warranted and a dose-adjustment of docetaxel may be suitable during the treatment with the strong CYP3A4 inhibitor (see section 4.4). In a pharmacokinetic study with 7 patients, the co-administration of docetaxel with the strong CYP3A4 inhibitor ketoconazole leads to a significant decrease in docetaxel clearance by 49%.

Docetaxel pharmacokinetics in the presence of prednisone was studied in patients with metastatic prostate cancer. Docetaxel is metabolised by CYP3A4 and prednisone is known to induce CYP3A4. No statistically significant effect of prednisone on the pharmacokinetics of docetaxel was observed.

Docetaxel is highly protein bound (> 95%). Although the possible *in vivo* interaction of docetaxel with concomitantly administered medicinal product has not been investigated formally, *in vitro* interactions with tightly protein-bound agents such as erythromycin, diphenhydramine, propranolol, propafenone, phenytoin, salicylate, sulfamethoxazole and sodium valproate did not affect protein binding of docetaxel. In addition, dexamethasone did not affect protein binding of docetaxel. Docetaxel did not influence the binding of digitoxin.

The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their co-administration. Limited data from a single uncontrolled study were suggestive of an interaction between docetaxel and carboplatin. When combined to docetaxel, the clearance of carboplatin was about 50% higher than values previously reported for carboplatin monotherapy.

4.6 Fertility, pregnancy and lactation

**Pregnancy**

There is no information on the use of docetaxel in pregnant women. Docetaxel has been shown to be both embryotoxic and foetotoxic in rabbits and rats, and to reduce fertility in rats. As with other cytotoxic medicinal products, docetaxel may cause foetal harm when administered to pregnant women. Therefore, docetaxel must not be used during pregnancy unless clearly indicated.

Women of childbearing age receiving docetaxel should be advised to avoid becoming pregnant, and to inform the treating physician immediately should this occur.

**Breast-feeding**

Docetaxel is a lipophilic substance but it is not known whether it is excreted in human milk. Consequently, because of the potential for adverse reactions in nursing infants, breast feeding must be discontinued for the duration of docetaxel therapy.

**Contraception in males and females**

An effective method of contraception should be used during treatment.
Fertility

In non-clinical studies, docetaxel has genotoxic effects and may alter male fertility (see section 5.3). Therefore, men being treated with docetaxel are advised not to father a child during and up to 6 months after treatment and to seek advice on conservation of sperm prior to treatment.

4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed. The amount of ethanol in Taxotere may impair the ability to drive or use machines (see section 4.4).

4.8 Undesirable effects

Summary of the safety profile for all indications

The adverse reactions considered to be possibly or probably related to the administration of docetaxel have been obtained in:

- 1312 and 121 patients who received 100 mg/m² and 75 mg/m² of docetaxel as a single agent respectively.
- 258 patients who received docetaxel in combination with doxorubicin.
- 406 patients who received docetaxel in combination with cisplatin.
- 92 patients treated with docetaxel in combination with trastuzumab.
- 255 patients who received docetaxel in combination with capecitabine.
- 332 patients who received docetaxel in combination with prednisone or prednisolone (clinically important treatment-related adverse events are presented).
- 1276 patients (744 and 532 in TAX 316 and GEICAM 9805 respectively) who received docetaxel in combination with doxorubicin and cyclophosphamide (clinically important treatment-related adverse events are presented).
- 300 gastric adenocarcinoma patients (221 patients in the phase III part of the study and 79 patients in the phase II part) who received docetaxel in combination with cisplatin and 5-fluorouracil (clinically important treatment-related adverse events are presented).
- 174 and 251 head and neck cancer patients who received docetaxel in combination with cisplatin and 5-fluorouracil (clinically important treatment-related adverse events are presented).

These reactions were described using the NCI Common Toxicity Criteria (grade 3 = G3; grade 3-4 = G3/4; grade 4 = G4), the COSTART and the MedDRA terms. Frequencies are defined as: very common (≥ 1/10), common (≥ 1/100 to < 1/10); uncommon (≥ 1/1,000 to < 1/100); rare (≥ 1/10,000 to < 1/1,000); very rare (< 1/10,000); not known (cannot be estimated from available data).

Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

The most commonly reported adverse reactions of docetaxel alone are: neutropenia (which was reversible and not cumulative; the median day to nadir was 7 days and the median duration of severe neutropenia (< 500 cells/mm³) was 7 days), anaemia, alopecia, nausea, vomiting, stomatitis, diarrhoea and asthenia. The severity of adverse events of docetaxel may be increased when docetaxel is given in combination with other chemotherapeutic agents.

For combination with trastuzumab, adverse events (all grades) reported in ≥ 10% are displayed. There was an increased incidence of SAEs (40% vs. 31%) and Grade 4 AE (34% vs. 23%) in the trastuzumab combination arm compared to docetaxel monotherapy.

For combination with capecitabine, the most frequent treatment-related undesirable effects (≥ 5%) reported in a phase III study in breast cancer patients failing anthracycline treatment are presented (see capecitabine summary of product characteristics).
The following adverse reactions are frequently observed with docetaxel:

**Immune system disorders**

Hypersensitivity reactions have generally occurred within a few minutes following the start of the infusion of docetaxel and were usually mild to moderate. The most frequently reported symptoms were flushing, rash with or without pruritus, chest tightness, back pain, dyspnoea and fever or chills. Severe reactions were characterised by hypotension and/or bronchospasm or generalized rash/erythema (see section 4.4).

**Nervous system disorders**

The development of severe peripheral neurotoxicity requires a reduction of dose (see sections 4.2 and 4.4). Mild to moderate neuro-sensory signs are characterised by paresthesia, dysesthesia or pain including burning. Neuro-motor events are mainly characterised by weakness.

**Skin and subcutaneous tissue disorders**

Reversible cutaneous reactions have been observed and were generally considered as mild to moderate. Reactions were characterised by a rash including localised eruptions mainly on the feet and hands (including severe hand and foot syndrome), but also on the arms, face or thorax, and frequently associated with pruritus. Eruptions generally occurred within one week after the docetaxel infusion. Less frequently, severe symptoms such as eruptions followed by desquamation which rarely lead to interruption or discontinuation of docetaxel treatment were reported (see sections 4.2 and 4.4). Severe nail disorders are characterised by hypo- or hyperpigmentation and sometimes pain and onycholysis.

**General disorders and administration site conditions**

Infusion site reactions were generally mild and consisted of hyper pigmentation, inflammation, redness or dryness of the skin, phlebitis or extravasation and swelling of the vein. Fluid retention includes events such as peripheral oedema and less frequently pleural effusion, pericardial effusion, ascites and weight gain. The peripheral oedema usually starts at the lower extremities and may become generalised with a weight gain of 3 kg or more. Fluid retention is cumulative in incidence and severity (see section 4.4).

**Tabulated list of adverse reactions in breast cancer for TAXOTERE 100 mg/m² single agent**

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infections (G3/4: 5.7%; including sepsis and pneumonia, fatal in 1.7%)</td>
<td>Infection associated with G4 neutropenia (G3/4: 4.6%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 76.4%); Anaemia (G3/4: 8.9%); Febrile neutropenia</td>
<td>Thrombocytopenia (G4: 0.2%)</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 5.3%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 4.1%); Peripheral motor neuropathy (G3/4: 4%); Dysgeusia (severe:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
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<tr>
<td>-----------------------------</td>
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</tr>
<tr>
<td></td>
<td>0.07%</td>
<td>Arrhythmia (G3/4: 0.7%)</td>
<td>Cardiac failure</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td>Hypotension; Hypertension; Haemorrhage</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Dyspnoea (severe: 2.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Stomatitis (G3/4: 5.3%); Diarrhoea (G3/4: 4%); Nausea (G3/4: 4%); Vomiting (G3/4: 3%)</td>
<td>Constipation (severe: 0.2%); Abdominal pain (severe: 1%); Gastrointestinal haemorrhage (severe: 0.3%)</td>
<td>Oesophagitis (severe: 0.4%)</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Skin reaction (G3/4: 5.9%); Nail disorders (severe: 2.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (severe: 1.4%)</td>
<td>Arthralgia</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Fluid retention (severe: 6.5%); Asthenia (severe: 11.2%); Pain</td>
<td>Infusion site reaction; Non-cardiac chest pain (severe: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td>G3/4 Blood bilirubin increased (&lt; 5%); G3/4 Blood alkaline phosphatase increased (&lt; 4%); G3/4 AST increased (&lt; 3%); G3/4 ALT increased (&lt; 2%)</td>
<td></td>
</tr>
</tbody>
</table>

Description of selected adverse reactions in breast cancer for Taxotere 100 mg/m² single agent

**Blood and lymphatic system disorders**
Rare: bleeding episodes associated with grade 3/4 thrombocytopenia.

**Nervous system disorders**
Reversibility data are available among 35.3% of patients who developed neurotoxicity following docetaxel treatment at 100 mg/m² as single agent. The events were spontaneously reversible within 3 months.

**Skin and subcutaneous tissue disorders**
Very rare: one case of alopecia non-reversible at the end of the study. 73% of the cutaneous reactions were reversible within 21 days.
**General disorders and administration site conditions**
The median cumulative dose to treatment discontinuation was more than 1,000 mg/m² and the median time to fluid retention reversibility was 16.4 weeks (range 0 to 42 weeks). The onset of moderate and severe retention is delayed (median cumulative dose: 818.9 mg/m²) in patients with premedication compared with patients without premedication (median cumulative dose: 489.7 mg/m²); however, it has been reported in some patients during the early courses of therapy.

Tabulated list of adverse reactions in non-small cell lung cancer for TAXOTERE 75 mg/m² single agent

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infections (G3/4: 5%)</td>
<td>Febrile neutropenia</td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 54.2%); Anaemia (G3/4: 10.8%); Thrombocytopenia (G4: 1.7%)</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>¼</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 0.8%)</td>
<td>Peripheral motor neuropathy (G3/4: 2.5%)</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Arrhythmia (no severe)</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 3.3%); Stomatitis (G3/4: 1.7%); Vomiting (G3/4: 0.8%); Diarrhoea (G3/4: 1.7%)</td>
<td>Constipation</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Skin reaction (G3/4: 0.8%)</td>
<td>Nail disorders (severe: 0.8%)</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td>Myalgia</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 12.4%); Fluid retention (severe: 0.8%); Pain</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td>G3/4 Blood bilirubin increased (&lt; 2%)</td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in breast cancer for TAXOTERE 75 mg/m² in combination with doxorubicin

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 7.8%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 91.7%); Anaemia (G3/4: 9.4%); Febrile neutropenia; Thrombocytopenia (G4: 0.8%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td>Hyposensitivity (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td></td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
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</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 0.4%)</td>
<td>Peripheral motor neuropathy (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Cardiac failure; Arrhythmia (no severe)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Hypotension</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 5%); Stomatitis (G3/4: 7.8%); Diarrhoea (G3/4: 6.2%); Vomiting (G3/4: 5%); Constipation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (severe: 0.4%); Skin reaction (no severe)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 8.1%); Fluid retention (severe: 1.2%); Pain</td>
<td>Infusion site reaction</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>G3/4 Blood bilirubin increased (&lt; 2.5%); G3/4 Blood alkaline phosphatase increased (&lt; 2.5%)</td>
<td>G3/4 AST increased (&lt; 1%); G3/4 ALT increased (&lt; 1%)</td>
<td></td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in non-small cell lung cancer for TAXOTERE 75 mg/m² in combination with cisplatin

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 5.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 51.5%); Anaemia (G3/4: 6.9%); Thrombocytopenia (G4: 0.5%)</td>
<td>Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 2.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 3.7%); Peripheral motor neuropathy (G3/4: 2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Arrhythmia (G3/4: 8.1%); Cardiac failure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>------------------------------------------------------------</td>
<td>-------------------------------------------------------------</td>
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</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td>Hypotension (G3/4: 0.7%)</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 9.6%); Vomiting (G3/4: 7.6%); Diarrhoea (G3/4: 6.4%); Stomatitis (G3/4: 2%)</td>
<td>Constipation</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (severe: 0.7%); Skin reaction (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (severe: 0.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 9.9%); Fluid retention (severe: 0.7%); Fever (G3/4: 1.2%)</td>
<td>Infusion site reaction; Pain</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td>G3/4 Blood bilirubin increased (2.1%); G3/4 ALT increased (1.3%)</td>
<td>G3/4 AST increased (0.5%); G3/4 Blood alkaline phosphatase increased (0.3%)</td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in breast cancer for TAXOTERE 100 mg/m² in combination with trastuzumab

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 32%); Febrile neutropenia (includes neutropenia associated with fever and antibiotic use) or neutropenic sepsis</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td>Insomnia</td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
<td>--------------------------</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Paresthesia; Headache; Dysgeusia; Hypoaesthesia</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased; Conjunctivitis</td>
<td>Cardiac failure</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Lymphoedema</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Epistaxis; Pharyngolaryngeal pain; Nasopharyngitis; Dyspnœa; Cough; Rhinorrhoea</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea; Diarrhoea; Vomiting; Constipation; Stomatitis; Dyspepsia; Abdominal pain</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Erythema; Rash; Nail disorders</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia; Arthralgia; Pain in extremity; Bone pain; Back pain</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia; Oedema peripheral; Pyrexia; Fatigue; Mucosal inflammation; Pain; Influenza like illness; Chest pain; Chills</td>
<td>Lethargy</td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight increased</td>
<td></td>
</tr>
</tbody>
</table>

**Description of selected adverse reactions in breast cancer for Taxotere 100 mg/m² in combination with trastuzumab**

**Blood and lymphatic system disorders**

Very common: Haematological toxicity was increased in patients receiving trastuzumab and docetaxel, compared with docetaxel alone (32% grade 3/4 neutropenia versus 22%, using NCI-CTC criteria). Note that this is likely to be an underestimate since docetaxel alone at a dose of 100 mg/m² is known to result in neutropenia in 97% of patients, 76% grade 4, based on nadir blood counts. The incidence of febrile neutropenia/neutropenic sepsis was also increased in patients treated with Herceptin plus docetaxel (23% versus 17% for patients treated with docetaxel alone).

**Cardiac disorders**

Symptomatic cardiac failure was reported in 2.2% of the patients who received docetaxel plus trastuzumab compared to 0% of patients given docetaxel alone. In the docetaxel plus trastuzumab arm, 64% had received a prior anthracycline as adjuvant therapy compared with 55% in the docetaxel arm alone.
Tabulated list of adverse reactions in breast cancer for TAXOTERE 75 mg/m² in combination with capecitabine

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Oral candidiasis (G3/4: &lt; 1%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 63%); Anaemia (G3/4: 10%)</td>
<td>Thrombocytopenia (G3/4: 3%)</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 1%); Decreased appetite</td>
<td>Dehydration (G3/4: 2%)</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia (G3/4: &lt; 1%); Paraesthesia (G3/4: &lt; 1%)</td>
<td>Dizziness; Headache (G3/4: &lt; 1%); Neuropathy peripheral</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Pharyngolaryngeal pain (G3/4: 2%)</td>
<td>Dyspnoea (G3/4: 1%); Cough (G3/4: &lt; 1%); Epistaxis (G3/4: &lt; 1%)</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Stomatitis (G3/4: 18%); Diarrhoea (G3/4: 14%); Nausea (G3/4: 6%); Vomiting (G3/4: 4%); Constipation (G3/4: 1%); Abdominal pain (G3/4: 2%); Dyspepsia</td>
<td>Abdominal pain upper; Dry mouth</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Hand-foot syndrome (G3/4: 24%); Alopecia (G3/4: 6%); Nail disorders (G3/4: 2%)</td>
<td>Dermatitis; Rash erythematous (G3/4: &lt; 1%); Nail discolouration; Onycholysis (G3/4: 1%)</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalga (G3/4: 2%); Arthralgia (G3/4: 1%)</td>
<td>Pain in extremity (G3/4: &lt; 1%); Back pain (G3/4: 1%)</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (G3/4: 3%); Pyrexia (G3/4: 1%); Fatigue/weakness (G3/4: 5%); Oedema peripheral (G3/4: 1%)</td>
<td>Lethargy; Pain</td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight decreased; G3/4 Blood bilirubin increased (9%)</td>
<td></td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions in prostate cancer for TAXOTERE 75 mg/m² in combination with prednisone or prednisolone

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 3.3%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 32%);</td>
<td>Thrombocytopenia (G3/4:</td>
</tr>
<tr>
<td></td>
<td>Anaemia (G3/4: 4.9%)</td>
<td>0.6%); Febrile neutropenia</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(G3/4: 1.2%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dysgeusia (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 2.4%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diarrhoea (G3/4: 1.2%);</td>
<td></td>
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<tr>
<td></td>
<td>Stomatitis/Pharyngitis (G3/4:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.9%); Vomiting (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia;</td>
<td></td>
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<tr>
<td></td>
<td>Nail disorders (no severe)</td>
<td></td>
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<tr>
<td>Musclekeletal and connective bone disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Fatigue (G3/4: 3.9%);</td>
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<tr>
<td></td>
<td>Fluid retention (severe: 0.6%)</td>
<td></td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in breast cancer for adjuvant therapy with TAXOTERE 75 mg/m² in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer - pooled data

<table>
<thead>
<tr>
<th>MedDRA System Organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 2.4%);</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Neutropenic infection (G3/4: 2.6%)</td>
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</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Anaemia (G3/4: 3%);</td>
<td></td>
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<tr>
<td></td>
<td>Neutropenia (G3/4: 59.2%);</td>
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<td></td>
<td>Thrombocytopenia (G3/4: 1.6%);</td>
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<tr>
<td></td>
<td>Febrile neutropenia (G3/4: NA)</td>
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<tr>
<td>Immune system disorders</td>
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<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 1.5%)</td>
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<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia (G3/4: 0.6%); Peripheral sensory neuropathy (G3/4: &lt;0.1%)</td>
<td>Peripheral motor neuropathy (G3/4: 0%); Syncope (G3/4: 0%); Neurotoxicity (G3/4: 0%); Somnolence (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Conjunctivitis (G3/4: &lt;0.1%)</td>
<td>Lacrimation increased (G3/4: &lt;0.1%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Arrhythmia (G3/4: 0.2%)</td>
<td></td>
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</tr>
<tr>
<td>Vascular disorders</td>
<td>Hot flush (G3/4: 0.5%)</td>
<td>Hypotension (G3/4: 0%); Phlebitis (G3/4: 0%); Lymphoedema (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Cough (G3/4: 0%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 5.0%); Stomatitis (G3/4: 6.0%); Vomiting (G3/4: 4.2%); Diarrhoea (G3/4: 3.4%); Constipation (G3/4: 0.5%)</td>
<td>Abdominal pain (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (persisting: &lt;3%); Skin disorder (G3/4: 0.6%); Nail disorders (G3/4: 0.4%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (G3/4: 0.7%); Arthralgia (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproductive system and breast disorders</td>
<td>Amenorrhoea (G3/4: NA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (G3/4: 10.0%); Pyrexia (G3/4: NA); Oedema peripheral (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight increased (G3/4: 0%); Weight decreased (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description of selected adverse reactions for adjuvant therapy with TAXOTERE 75 mg/m² in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer

*Nervous system disorders*
In study TAX316 peripheral sensory neuropathy started during the treatment period and persisted into the follow-up period in 84 patients (11.3%) in TAC arm and 15 patients (2%) in FAC arm. At the end of the follow-up period (median follow-up time of 8 years), peripheral sensory neuropathy was observed to be ongoing in 10 patients (1.3%) in TAC arm, and in 2 patients (0.3%) in FAC arm.
In GEICAM 9805 study peripheral sensory neuropathy that started during the treatment period persisted into the follow-up period in 10 patients (1.9%) in TAC arm and 4 patients (0.8%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), peripheral sensory neuropathy was observed to be ongoing in 3 patients (0.6%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

**Cardiac disorders**
In study TAX316, 26 patients (3.5%) in the TAC arm and 17 patients (2.3%) in the FAC arm experienced congestive heart failure. All except one patient in each arm were diagnosed with CHF more than 30 days after the treatment period. Two patients in the TAC arm and 4 patients in the FAC arm died because of cardiac failure.
In GEICAM 9805 study, 3 patients (0.6 %) in TAC arm and 3 patients (0.6 %) in FAC arm developed congestive heart failure during the follow-up period. At the end of the follow-up period (actual median follow-up time of 10 years and 5 months), no patients had CHF in TAC arm and 1 patient in TAC arm died because of dilated cardiomyopathy, and CHF was observed to be ongoing in 1 patient (0.2%) in FAC arm.

**Skin and subcutaneous tissue disorders**
In study TAX316 alopecia persisting into the follow-up period after the end of chemotherapy was reported in 687 of 744 TAC patients (92.3%) and 645 of 736 FAC patients (87.6%). At the end of the follow-up period (actual median follow-up time of 8 years), alopecia was observed to be ongoing in 29 TAC patients (3.9%) and 16 FAC patients (2.2%).
In GEICAM 9805 study alopecia that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 49 patients (9.2 %) in TAC arm and 35 patients (6.7 %) in FAC arm. Alopecia related to study drug started or worsened during the follow-up period in 42 patients (7.9 %) in TAC arm and 30 patients (5.8 %) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), alopecia was observed to be ongoing in 3 patients (0.6%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

**Reproductive system and breast disorders**
In TAX316 amenorrhea that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 202 of 744 TAC patients (27.2%) and 125 of 736 FAC patients (17.0%). Amenorrhea was observed to be ongoing at the end of the follow-up period (median follow-up time of 8 years) in 121 of 744 TAC patients (16.3%) and 86 FAC patients (11.7%). In GEICAM 9805 study amenorrhea that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 18 patients (3.4 %) in TAC arm and 5 patients (1.0 %) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), amenorrhea was observed to be ongoing in 7 patients (1.3%) in TAC arm, and in 4 patients (0.8%) in FAC arm.

**General disorders and administration site conditions**
In study TAX316 peripheral oedema that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was observed in 119 of 744 TAC patients (16.0%) and 23 of 736 FAC patients (3.1%). Peripheral oedema was ongoing at the end of the follow-up period (median follow-up time of 8 years) in 11 of 744 TAC patients (1.5%) and 1 of 736 FAC patients (0.1%). In study TAX316 lymphoedema that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 11 of 744 TAC patients (1.5%) and 1 of 736 FAC patients (0.1%). At the end of the follow-up period (median follow-up time of 8 years), lymphoedema was observed to be ongoing in 6 TAC patients (0.8%) and 1 FAC patient (0.1%).
In study TAX316 asthenia that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 236 of 744 TAC patients (31.7%) and 180 of 736 FAC patients (24.5%). At the end of the follow-up period (actual median follow-up time of 8 years), asthenia was observed to be ongoing in 29 TAC patients (3.9%) and 16 FAC patients (2.2%).

In study GEICAM 9805 peripheral oedema that started during the treatment period persisted into the follow-up period in 4 patients (0.8%) in TAC arm and in 2 patients (0.4%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), no patients (0%) in TAC arm
had peripheral oedema and it was observed to be ongoing in 1 patient (0.2%) in FAC arm. Lymphoedema that started during the treatment period persisted into the follow-up period in 5 patients (0.9%) in TAC arm and 2 patients (0.4%) in FAC arm. At the end of the follow-up period, lymphoedema was observed to be ongoing in 4 patients (0.8%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

Asthenia that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 12 patients (2.3%) in TAC arm and 4 patients (0.8%) in FAC arm. At the end of the follow-up period, asthenia was observed to be ongoing in 2 patients (0.4%) in TAC arm, and in 2 patients (0.4%) in FAC arm.

**Acute leukaemia / Myelodysplastic syndrome.**

After 10 years of follow up in study TAX316, acute leukaemia was reported in 3 of 744 TAC patients (0.4%) and in 1 of 736 FAC patients (0.1%). One TAC patient (0.1%) and 1 FAC patient (0.1%) died due to AML during the follow-up period (median follow-up time of 8 years). Myelodysplastic syndrome was reported in 2 of 744 TAC patients (0.3%) and in 1 of 736 FAC patients (0.1%). After 10 years of follow-up in GEICAM 9805 study, acute leukaemia occurred in 1 of 532 (0.2%) patients in TAC arm. No cases were reported in patients in FAC arm. No patient was diagnosed with myelodysplastic syndrome in either treatment groups.

**Neutropenic complications**

Table below shows that the incidence of Grade 4 neutropenia, febrile neutropenia and neutropenic infection was decreased in patients who received primary G-CSF prophylaxis after it was made mandatory in the TAC arm – GEICAM study.

**Neutropenic complications in patients receiving TAC with or without primary G-CSF prophylaxis (GEICAM 9805)**

<table>
<thead>
<tr>
<th></th>
<th>Without primary G-CSF prophylaxis (n = 111) n (%)</th>
<th>With primary G-CSF prophylaxis (n = 421) n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neutropenia (Grade 4)</td>
<td>104 (93.7)</td>
<td>135 (32.1)</td>
</tr>
<tr>
<td>Febrile neutropenia</td>
<td>28 (25.2)</td>
<td>23 (5.5)</td>
</tr>
<tr>
<td>Neutropenic infection</td>
<td>14 (12.6)</td>
<td>21 (5.0)</td>
</tr>
<tr>
<td>Neutropenic infection (Grade 3-4)</td>
<td>2 (1.8)</td>
<td>5 (1.2)</td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in gastric adenocarcinoma cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Neutropenic infection; Infection (G3/4: 11.7%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Anaemia (G3/4: 20.9%); Neutropenia (G3/4: 83.2%); Thrombocytopenia (G3/4: 8.8%); Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 1.7%)</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition</td>
<td>Anorexia (G3/4: 11.7%)</td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
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<tr>
<td>disorders</td>
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<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 8.7%)</td>
<td>Dizziness (G3/4: 2.3%); Peripheral motor neuropathy (G3/4: 1.3%)</td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td>Lacrimation increased (G3/4: 0%)</td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td></td>
<td>Hearing impaired (G3/4: 0%)</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Arrhythmia (G3/4: 1.0%)</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Diarrhoea (G3/4: 19.7%); Nausea (G3/4: 16%); Stomatitis (G3/4: 23.7%); Vomiting (G3/4: 14.3%)</td>
<td>Constipation (G3/4: 1.0%); Gastrointestinal pain (G3/4: 1.0%); Oesophagitis/dysphagia/odynophagia (G3/4: 0.7%)</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 4.0%)</td>
<td>Rash pruritus (G3/4: 0.7%); Nail disorders (G3/4: 0.7%); Skin exfoliation (G3/4: 0%)</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 19.0%); Fever (G3/4: 2.3%); Fluid retention (severe/life-threatening: 1%)</td>
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</tr>
</tbody>
</table>
Description of selected adverse reactions in gastric adenocarcinoma cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

**Blood and lymphatic system disorders**
Febrile neutropenia and neutropenic infection occurred in 17.2% and 13.5% of patients respectively, regardless of G-CSF use. G-CSF was used for secondary prophylaxis in 19.3% of patients (10.7% of the cycles). Febrile neutropenia and neutropenic infection occurred respectively in 12.1% and 3.4% of patients when patients received prophylactic G-CSF, in 15.6% and 12.9% of patients without prophylactic G-CSF (see section 4.2).

Tabulated list of adverse reactions in head and neck cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

- Induction chemotherapy followed by radiotherapy (TAX 323)

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 6.3%); Neutropenic infection</td>
<td>Cancer pain (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Neutropenia (G3/4: 76.3%); Anaemia (G3/4: 9.2%); Thrombocytopenia (G3/4: 5.2%)</td>
<td>Febrile neutropenia</td>
<td></td>
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<tr>
<td>Blood and lymphatic system disorders</td>
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<tr>
<td>Immune system disorders</td>
<td></td>
<td></td>
<td>Hypersensitivity (no severe)</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 0.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia/Parosmia; Peripheral sensory neuropathy (G3/4: 0.6%)</td>
<td>Dizziness</td>
<td></td>
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<tr>
<td>Eye disorders</td>
<td></td>
<td></td>
<td>Lacrimation increased; Conjunctivitis</td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td></td>
<td></td>
<td>Hearing impaired</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
<td>Myocardial ischemia (G3/4: 1.7%); Arrhythmia (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td></td>
<td>Venous disorder (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 0.6%); Stomatitis (G3/4: 4.0%); Diarrhoea (G3/4: 2.9%); Vomiting (G3/4: 0.6%)</td>
<td>Constipation; Esophagitis/dysphagia/odynophagia (G3/4: 0.6%); Abdominal pain; Dyspepsia; Gastrointestinal haemorrhage (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>------------------------------------------------</td>
<td>------------------------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 10.9%)</td>
<td>Rash pruritic;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dry skin; Skin exfoliative (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td>Myalgia (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 3.4%); Pyrexia (G3/4: 0.6%); Fluid retention; Oedema</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight increased</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Induction chemotherapy followed by chemoradiotherapy (TAX 324)

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 3.6%)</td>
<td>Neutropenic infection</td>
<td></td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Neutropenia (G3/4: 83.5%); Anaemia (G3/4: 12.4%); Thrombocytopenia (G3/4: 4.0%); Febrile neutropenia</td>
<td>Cancer pain (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Dysgeusia/Parosmia (G3/4: 0.4%); Peripheral sensory neuropathy (G3/4: 1.2%)</td>
<td>Dizziness (G3/4: 2.0%); Peripheral motor neuropathy (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Anorexia (G3/4: 12.0%)</td>
<td>Hypersensitivity</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Hearing impaired (G3/4: 1.2%)</td>
<td>Arrhythmia (G3/4: 2.0%)</td>
<td>Ischemia myocardial</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lactation increased</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td></td>
<td>Venous disorder</td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------------------</td>
<td>-------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 13.9%); Stomatitis (G3/4: 20.7%); Vomiting (G3/4: 8.4%); Diarrhoea (G3/4: 6.8%); Esophagitis/dysphagia/odynophagia (G3/4: 12.0%); Constipation (G3/4: 0.4%)</td>
<td>Dyspepsia (G3/4: 0.8%); Gastrointestinal pain (G3/4: 1.2%); Gastrointestinal haemorrhage (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 4.0%); Rash pruritic</td>
<td>Dry skin; Desquamation</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal, connective tissue bone disorders</td>
<td></td>
<td>Myalgia (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 4.0%); Pyrexia (G3/4: 3.6%); Fluid retention (G3/4: 1.2%); Oedema (G3/4: 1.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight decreased</td>
<td></td>
<td>Weight increased</td>
</tr>
</tbody>
</table>

Post-marketing experience

**Neoplasms benign, malignant and unspecified (incl cysts and polyps)**
Cases of acute myeloid leukaemia and myelodysplastic syndrome have been reported in association with docetaxel when used in combination with other chemotherapy agents and/or radiotherapy.

**Blood and lymphatic system disorders**
Bone marrow suppression and other haematologic adverse reactions have been reported. Disseminated intravascular coagulation (DIC), often in association with sepsis or multiorgan failure, has been reported.

**Immune system disorders**
Some cases of anaphylactic shock, sometimes fatal, have been reported.

**Nervous system disorders**
Rare cases of convulsion or transient loss of consciousness have been observed with docetaxel administration. These reactions sometimes appear during the infusion of the medicinal product.

**Eye disorders**
Very rare cases of transient visual disturbances (flashes, flashing lights, scotomata) typically occurring during infusion of the medicinal product and in association with hypersensitivity reactions have been reported. These were reversible upon discontinuation of the infusion. Cases of lacrimation with or without conjunctivitis, as cases of lacrimal duct obstruction resulting in excessive tearing have been rarely reported. Cases of cystoid macular oedema (CMO) have been reported in patients treated with docetaxel.

**Ear and labyrinth disorders**
Rare cases of ototoxicity, hearing impaired and/or hearing loss have been reported.
Cardiac disorders
Rare cases of myocardial infarction have been reported. Ventricular arrhythmia including ventricular tachycardia (frequency not known), sometimes fatal, has been reported in patients treated with docetaxel in combination regimens including doxorubicin, 5-fluorouracil and/or cyclophosphamide.

Vascular disorders
Venous thromboembolic events have rarely been reported.

Respiratory, thoracic and mediastinal disorders
Acute respiratory distress syndrome and cases of interstitial pneumonia/pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure sometimes fatal have rarely been reported. Rare cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.

Gastrointestinal disorders
Rare occurrences of dehydration as a consequence of gastrointestinal events, gastrointestinal perforation, colitis ischaemic, colitis and neutropenic enterocolitis have been reported. Rare cases of ileus and intestinal obstruction have been reported.

Hepatobiliary disorders
Very rare cases of hepatitis, sometimes fatal primarily in patients with pre-existing liver disorders, have been reported.

Skin and subcutaneous tissue disorders
Very rare cases of cutaneous lupus erythematosus and bullous eruptions such as erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis, have been reported with docetaxel. In some cases concomitant factors may have contributed to the development of these effects. Sclerodermal-like changes usually preceded by peripheral lymphoedema have been reported with docetaxel. Cases of permanent alopecia (frequency not known) have been reported.

Renal and urinary disorders
Renal insufficiency and renal failure have been reported. In about 20% of these cases there were no risk factors for acute renal failure such as concomitant nephrotoxic medicinal products and gastrointestinal disorders.

General disorders and administration site conditions
Radiation recall phenomena have rarely been reported. Fluid retention has not been accompanied by acute episodes of oliguria or hypotension. Dehydration and pulmonary oedema have rarely been reported.

Metabolism and nutrition disorders
Cases of electrolyte imbalance have been reported. Cases of hyponatraemia have been reported, mostly associated with dehydration, vomiting and pneumonia. Hypokalaemia, hypomagnesaemia, and hypocalcaemia were observed, usually in association with gastrointestinal disorders and in particular with diarrhoea.

Reporting of suspected adverse reactions
Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

4.9 Overdose
There were a few reports of overdose. There is no known antidote for docetaxel overdose. In case of overdose, the patient should be kept in a specialised unit and vital functions closely monitored. In cases of overdose, exacerbation of adverse events may be expected. The primary anticipated
complications of overdose would consist of bone marrow suppression, peripheral neurotoxicity and mucositis. Patients should receive therapeutic G-CSF as soon as possible after discovery of overdose. Other appropriate symptomatic measures should be taken, as needed.

5.  PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Taxanes, ATC Code: L01CD02

Mechanism of action

Docetaxel is an antineoplastic agent which acts by promoting the assembly of tubulin into stable microtubules and inhibits their disassembly which leads to a marked decrease of free tubulin. The binding of docetaxel to microtubules does not alter the number of protofilaments.

Docetaxel has been shown in vitro to disrupt the microtubular network in cells which is essential for vital mitotic and interphase cellular functions.

Pharmacodynamic effects

Docetaxel was found to be cytotoxic in vitro against various murine and human tumour cell lines and against freshly excised human tumour cells in clonogenic assays. Docetaxel achieves high intracellular concentrations with a long cell residence time. In addition, docetaxel was found to be active on some but not all cell lines over expressing the p-glycoprotein which is encoded by the multidrug resistance gene. In vivo, docetaxel is schedule independent and has a broad spectrum of experimental antitumour activity against advanced murine and human grafted tumours.

Clinical efficacy and safety

Breast cancer

TAXOTERE in combination with doxorubicin and cyclophosphamide: adjuvant therapy

Patients with operable node-positive breast cancer (TAX 316)

Data from a multicenter open label randomized study support the use of docetaxel for the adjuvant treatment of patients with operable node-positive breast cancer and KPS ≥ 80%, between 18 and 70 years of age. After stratification according to the number of positive lymph nodes (1-3, 4+), 1491 patients were randomized to receive either docetaxel 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² (TAC arm), or doxorubicin 50 mg/m² followed by fluorouracil 500 mg/m² and cyclophosphamide 500 mg/m² (FAC arm). Both regimens were administered once every 3 weeks for 6 cycles. Docetaxel was administered as a 1-hour infusion, all other medicinal products were given as intravenous bolus on day one. G-CSF was administered as secondary prophylaxis to patients who experienced complicated neutropenia (febrile neutropenia, prolonged neutropenia, or infection). Patients on the TAC arm received antibiotic prophylaxis with ciprofloxacin 500 mg orally twice daily for 10 days starting on day 5 of each cycle, or equivalent. In both arms, after the last cycle of chemotherapy, patients with positive estrogen and/or progesterone receptors received tamoxifen 20 mg daily for up to 5 years. Adjuvant radiation therapy was prescribed according to guidelines in place at participating institutions and was given to 69% of patients who received TAC and 72% of patients who received FAC. Two interim analyses and one final analysis were performed. The first interim analysis was planned 3 years after the date when half of study enrollment was done. The second interim analysis was done after 400 DFS events had been recorded overall, which led to a median follow-up of 55 months. The final analysis was performed when all patients had reached their 10-year follow-up visit (unless they had a DFS event or were lost to follow-
Disease-free survival (DFS) was the primary efficacy endpoint and Overall survival (OS) was the secondary efficacy endpoint.

A final analysis was performed with an actual median follow up of 96 months. Significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. Incidence of relapses at 10 years was reduced in patients receiving TAC compared to those who received FAC (39% versus 45%, respectively) i.e. an absolute risk reduction by 6% (p = 0.0043). Overall survival at 10 years was also significantly increased with TAC compared to FAC (76% versus 69%, respectively) i.e. an absolute reduction of the risk of death by 7% (p = 0.002). As the benefit observed in patients with 4+ nodes was not statistically significant on DFS and OS, the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis.

Overall, the study results demonstrate a positive benefit risk ratio for TAC compared to FAC.

TAC-treated patient subsets according to prospectively defined major prognostic factors were analyzed:

<table>
<thead>
<tr>
<th>Patient subset</th>
<th>Number of patients</th>
<th>Hazard ratio*</th>
<th>95% CI</th>
<th>p =</th>
<th>Hazard ratio*</th>
<th>95% CI</th>
<th>p =</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of positive nodes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall</td>
<td>745</td>
<td>0.80</td>
<td>0.68-0.93</td>
<td>0.0043</td>
<td>0.74</td>
<td>0.61-0.90</td>
<td>0.0020</td>
</tr>
<tr>
<td>1-3</td>
<td>467</td>
<td>0.72</td>
<td>0.58-0.91</td>
<td>0.0047</td>
<td>0.62</td>
<td>0.46-0.82</td>
<td>0.0008</td>
</tr>
<tr>
<td>4+</td>
<td>278</td>
<td>0.87</td>
<td>0.70-1.09</td>
<td>0.2290</td>
<td>0.87</td>
<td>0.67-1.12</td>
<td>0.2746</td>
</tr>
</tbody>
</table>

*a hazard ratio of less than 1 indicates that TAC is associated with a longer disease-free survival and overall survival compared to FAC.

Patients with operable node-negative breast cancer eligible to receive chemotherapy (GEICAM 9805)

Data from a multicenter open label randomized trial support the use of TAXOTERE for the adjuvant treatment of patients with operable node-negative breast cancer eligible to receive chemotherapy. 1060 patients were randomized to receive either TAXOTERE 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² (539 patients in TAC arm), or doxorubicin 50 mg/m² followed by fluorouracil 500 mg/m² and cyclophosphamide 500 mg/m² (521 patients in FAC arm), as adjuvant treatment of operable node-negative breast cancer patients with high risk of relapse according to 1998 St. Gallen criteria (tumour size >2 cm and/or negative ER and PR and/or high histological/nuclear grade (grade 2 to 3) and/or age <35 years). Both regimens were administered once every 3 weeks for 6 cycles. TAXOTERE was administered as a 1-hour infusion, all other medicinal products were given intravenously on day 1 every three weeks. Primary prophylactic G-CSF was made mandatory in TAC arm after 230 patients were randomized. The incidence of Grade 4 neutropenia, febrile neutropenia and neutropenic infection was decreased in patients who received primary G-CSF prophylaxis (see section 4.8). In both arms, after the last cycle of chemotherapy, patients with ER+ and/or PgR+ tumours received tamoxifen 20 mg once a day for up to 5 years. Adjuvant radiation therapy was administered according to guidelines in place at participating institutions and was given to 57.3% of patients who received TAC and 51.2% of patients who received FAC.

One primary analysis and one updated analysis were performed. The primary analysis was done when all patients had a follow-up of greater than 5 years (median follow-up time of 77 months). The updated analysis was performed when all patients had reached their 10-year (median follow up time of 10 years and 5 months) follow-up visit (unless they had a DFS event or were lost to follow-up previously). Disease-free survival (DFS) was the primary efficacy endpoint and Overall survival (OS) was the secondary efficacy endpoint.
At the median follow-up time of 77 months, significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. TAC-treated patients had a 32% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.68, 95% CI (0.49-0.93), p = 0.01). At the median follow up time of 10 years and 5 months, TAC-treated patients had a 16.5% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.84, 95% CI (0.65-1.08), p=0.1646). DFS data were not statistically significant but were still associated with a positive trend in favour of TAC.

At the median follow-up time of 77 months, overall survival (OS) was longer in the TAC arm with TAC-treated patients having a 24% reduction in the risk of death compared to FAC (hazard ratio = 0.76, 95% CI (0.46-1.26, p = 0.29). However, the distribution of OS was not significantly different between the 2 groups.

At the median follow up time of 10 years and 5 months, TAC-treated patients had a 9% reduction in the risk of death compared to FAC-treated patients (hazard ratio = 0.91, 95% CI (0.63-1.32)). The survival rate was 93.7% in the TAC arm and 91.4% in the FAC arm, at the 8-year follow-up timepoint, and 91.3% in the TAC arm and 89% in the FAC arm, at the 10-year follow-up timepoint.

The positive benefit risk ratio for TAC compared to FAC remained unchanged.

TAC-treated patient subsets according to prospectively defined major prognostic factors were analyzed in the primary analysis (at the median follow-up time of 77 months) (see table below):

**Subset Analyses-Adjuvant Therapy in Patients with Node-negative Breast Cancer Study (Intent-to-Treat Analysis)**

<table>
<thead>
<tr>
<th>Patient subset</th>
<th>Number of patients in TAC group</th>
<th>Disease Free Survival</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Hazard ratio*</td>
</tr>
<tr>
<td>Overall</td>
<td>539</td>
<td>0.68</td>
</tr>
<tr>
<td><strong>Age category 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;50 years</td>
<td>260</td>
<td>0.67</td>
</tr>
<tr>
<td>≥50 years</td>
<td>279</td>
<td>0.67</td>
</tr>
<tr>
<td><strong>Age category 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;35 years</td>
<td>42</td>
<td>0.31</td>
</tr>
<tr>
<td>≥35 years</td>
<td>497</td>
<td>0.73</td>
</tr>
<tr>
<td><strong>Hormonal receptor status</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Negative</td>
<td>195</td>
<td>0.7</td>
</tr>
<tr>
<td>Positive</td>
<td>344</td>
<td>0.62</td>
</tr>
<tr>
<td><strong>Tumour size</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≤2 cm</td>
<td>285</td>
<td>0.69</td>
</tr>
<tr>
<td>&gt;2 cm</td>
<td>254</td>
<td>0.68</td>
</tr>
<tr>
<td><strong>Histological grade</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade 1 (includes grade not assessed)</td>
<td>64</td>
<td>0.79</td>
</tr>
<tr>
<td>Grade 2</td>
<td>216</td>
<td>0.77</td>
</tr>
<tr>
<td>Grade 3</td>
<td>259</td>
<td>0.59</td>
</tr>
<tr>
<td><strong>Menopausal status</strong></td>
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<td></td>
</tr>
<tr>
<td>Pre-Menopausal</td>
<td>285</td>
<td>0.64</td>
</tr>
<tr>
<td>Post-Menopausal</td>
<td>254</td>
<td>0.72</td>
</tr>
</tbody>
</table>

*a hazard ratio (TAC/FAC) of less than 1 indicates that TAC is associated with a longer disease free survival compared to FAC.*
Exploratory subgroup analyses for disease-free survival for patients who meet the 2009 St. Gallen chemotherapy criteria – (ITT population) were performed and presented here below:

<table>
<thead>
<tr>
<th>Subgroups</th>
<th>TAC (n=539)</th>
<th>FAC (n=521)</th>
<th>Hazard ratio (TAC/FAC) (95% CI)</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting relative indication for chemotherapy a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>18/214 (8.4%)</td>
<td>26/227 (11.5%)</td>
<td>0.796 (0.434 - 1.459)</td>
<td>0.4593</td>
</tr>
<tr>
<td>Yes</td>
<td>48/325 (14.8%)</td>
<td>69/294 (23.5%)</td>
<td>0.606 (0.42 - 0.877)</td>
<td>0.0072</td>
</tr>
</tbody>
</table>

TAC = docetaxel, doxorubicin and cyclophosphamide
FAC = 5-fluorouracil, doxorubicin and cyclophosphamide
CI = confidence interval; ER = estrogen receptor
PR = progesterone receptor
a ER/PR-negative or Grade 3 or tumor size >5 cm

The estimated hazard ratio was using Cox proportional hazard model with treatment group as the factor.

**TAXOTERE as single agent**

Two randomised phase III comparative studies, involving a total of 326 alkylating or 392 anthracycline failure metastatic breast cancer patients, have been performed with docetaxel at the recommended dose and regimen of 100 mg/m² every 3 weeks.

In alkylating-failure patients, docetaxel was compared to doxorubicin (75 mg/m² every 3 weeks). Without affecting overall survival time (docetaxel 15 months vs. doxorubicin 14 months, p = 0.38) or time to progression (docetaxel 27 weeks vs. doxorubicin 23 weeks, p = 0.54), docetaxel increased response rate (52% vs. 37%, p = 0.01) and shortened time to response (12 weeks vs. 23 weeks, p = 0.007). Three docetaxel patients (2%) discontinued the treatment due to fluid retention, whereas 15 doxorubicin patients (9%) discontinued due to cardiac toxicity (three cases of fatal congestive heart failure).

In anthracycline-failure patients, docetaxel was compared to the combination of mitomycin C and vinblastine (12 mg/m² every 6 weeks and 6 mg/m² every 3 weeks). Docetaxel increased response rate (33% vs. 12%, p < 0.0001), prolonged time to progression (19 weeks vs. 11 weeks, p = 0.0004) and prolonged overall survival (11 months vs. 9 months, p = 0.01).

During these two phase III studies, the safety profile of docetaxel was consistent with the safety profile observed in phase II studies (see section 4.8).

An open-label, multicenter, randomized phase III study was conducted to compare docetaxel monotherapy and paclitaxel in the treatment of advanced breast cancer in patients whose previous therapy should have included an anthracycline. A total of 449 patients were randomized to receive either docetaxel monotherapy 100 mg/m² as a 1 hour infusion or paclitaxel 175 mg/m² as a 3 hour infusion. Both regimens were administered every 3 weeks.

Without affecting the primary endpoint, overall response rate (32% vs 25%, p = 0.10), docetaxel prolonged median time to progression (24.6 weeks vs 15.6 weeks; p < 0.01) and median survival (15.3 months vs 12.7 months; p = 0.03).

More grade 3/4 adverse events were observed for docetaxel monotherapy (55.4%) compared to paclitaxel (23.0%).
**TAXOTERE in combination with doxorubicin**

One large randomized phase III study, involving 429 previously untreated patients with metastatic disease, has been performed with doxorubicin (50 mg/m²) in combination with docetaxel (75 mg/m²) (AT arm) versus doxorubicin (60 mg/m²) in combination with cyclophosphamide (600 mg/m²) (AC arm). Both regimens were administered on day 1 every 3 weeks.

- Time to progression (TTP) was significantly longer in the AT arm versus AC arm, \( p = 0.0138 \). The median TTP was 37.3 weeks (95% CI: 33.4 - 42.1) in AT arm and 31.9 weeks (95% CI: 27.4 - 36.0) in AC arm.
- Overall response rate (ORR) was significantly higher in the AT arm versus AC arm, \( p = 0.009 \). The ORR was 59.3% (95% CI: 52.8 - 65.9) in AT arm versus 46.5% (95% CI: 39.8 - 53.2) in AC arm.

In this study, AT arm showed a higher incidence of severe neutropenia (90% versus 68.6%), febrile neutropenia (33.3% versus 10%), infection (8% versus 2.4%), diarrhoea (7.5% versus 1.4%), asthenia (8.5% versus 2.4%), and pain (2.8% versus 0%) than AC arm. On the other hand, AC arm showed a higher incidence of severe anaemia (15.8% versus 8.5%) than AT arm, and, in addition, a higher incidence of severe cardiac toxicity: congestive heart failure (3.8% versus 2.8%), absolute LVEF decrease ≥ 20% (13.1% versus 6.1%), absolute LVEF decrease ≥ 30% (6.2% versus 1.1%). Toxic deaths occurred in 1 patient in the AT arm (congestive heart failure) and in 4 patients in the AC arm (1 due to septic shock and 3 due to congestive heart failure).

In both arms, quality of life measured by the EORTC questionnaire was comparable and stable during treatment and follow-up.

**TAXOTERE in combination with trastuzumab**

Docetaxel in combination with trastuzumab was studied for the treatment of patients with metastatic breast cancer whose tumours overexpress HER2, and who previously had not received chemotherapy for metastatic disease. One hundred eighty six patients were randomized to receive docetaxel (100 mg/m²) with or without trastuzumab; 60% of patients received prior anthracycline-based adjuvant chemotherapy. Docetaxel plus trastuzumab was efficacious in patients whether or not they had received prior adjuvant anthracyclines. The main test method used to determine HER2 positivity in this pivotal study was immunohistochemistry (IHC). A minority of patients were tested using fluorescence in-situ hybridization (FISH). In this study, 87% of patients had disease that was IHC 3+, and 95% of patients entered had disease that was IHC 3+ and/or FISH positive. Efficacy results are summarized in the following table:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Docetaxel plus trastuzumab(^1) n = 92</th>
<th>Docetaxel(^1) n = 94</th>
</tr>
</thead>
<tbody>
<tr>
<td>Response rate ((95% CI))</td>
<td>61% ((50-71))</td>
<td>34% ((25-45))</td>
</tr>
<tr>
<td>Median duration of response () (\text{months}) ((95% CI))</td>
<td>11.4 ((9.2-15.0))</td>
<td>5.1 ((4.4-6.2))</td>
</tr>
<tr>
<td>Median TTP ((95% CI))</td>
<td>10.6 ((7.6-12.9))</td>
<td>5.7 ((5.0-6.5))</td>
</tr>
<tr>
<td>Median survival () (\text{months}) ((95% CI))</td>
<td>30.5(^2) ((26.8-ne))</td>
<td>22.1(^2) ((17.6-28.9))</td>
</tr>
</tbody>
</table>

TTP = time to progression; “ne” indicates that it could not be estimated or it was not yet reached.

\(^1\)Full analysis set (intent-to-treat)

\(^2\)Estimated median survival
**TAXOTERE in combination with capecitabine**

Data from one multicenter, randomised, controlled phase III clinical study support the use of docetaxel in combination with capecitabine for treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy, including an anthracycline. In this study, 255 patients were randomised to treatment with docetaxel (75 mg/m² as a 1 hour intravenous infusion every 3 weeks) and capecitabine (1250 mg/m² twice daily for 2 weeks followed by 1-week rest period). 256 patients were randomised to treatment with docetaxel alone (100 mg/m² as a 1 hour intravenous infusion every 3 weeks). Survival was superior in the docetaxel + capecitabine combination arm (p = 0.0126). Median survival was 442 days (docetaxel + capecitabine) vs. 352 days (docetaxel alone).

The overall objective response rates in the all-randomised population (investigator assessment) were 41.6% (docetaxel + capecitabine) vs. 29.7% (docetaxel alone); p = 0.0058. Time to progressive disease was superior in the docetaxel + capecitabine combination arm (p < 0.0001). The median time to progression was 186 days (docetaxel + capecitabine) vs. 128 days (docetaxel alone).

**Non-small cell lung cancer**

*Patients previously treated with chemotherapy with or without radiotherapy*

In a phase III study, in previously treated patients, time to progression (12.3 weeks versus 7 weeks) and overall survival were significantly longer for docetaxel at 75 mg/m² compared to Best Supportive Care. The 1-year survival rate was also significantly longer in docetaxel (40%) versus BSC (16%). There was less use of morphinic analgesics (p < 0.01), non-morphinic analgesics (p < 0.01), other disease-related medicinal products (p = 0.06) and radiotherapy (p < 0.01) in patients treated with docetaxel at 75 mg/m² compared to those with BSC.

The overall response rate was 6.8% in the evaluable patients, and the median duration of response was 26.1 weeks.

**TAXOTERE in combination with platinum agents in chemotherapy-naïve patients**

In a phase III study, 1218 patients with unresectable stage IIIB or IV NSCLC, with KPS of 70% or greater, and who did not receive previous chemotherapy for this condition, were randomised to either docetaxel (T) 75 mg/m² as a 1 hour infusion immediately followed by cisplatin (Cis) 75 mg/m² over 30-60 minutes every 3 weeks (TCis), docetaxel 75 mg/m² as a 1 hour infusion in combination with carboplatin (AUC 6 mg/ml.min) over 30-60 minutes every 3 weeks, or vinorelbine (V) 25 mg/m² administered over 6-10 minutes on days 1, 8, 15, 22 followed by cisplatin 100 mg/m² administered on day 1 of cycles repeated every 4 weeks (VCis).
Survival data, median time to progression and response rates for two arms of the study are illustrated in the following table:

<table>
<thead>
<tr>
<th></th>
<th>TCis n = 408</th>
<th>VCis n = 404</th>
<th>Statistical analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Overall survival</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Primary end-point):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>11.3</td>
<td>10.1</td>
<td>Hazard Ratio: 1.122</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[97.2% CI: 0.937; 1.342]*</td>
</tr>
<tr>
<td>1-year Survival (%)</td>
<td>46</td>
<td>41</td>
<td>Treatment difference: 5.4%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: -1.1; 12.0]</td>
</tr>
<tr>
<td>2-year Survival (%)</td>
<td>21</td>
<td>14</td>
<td>Treatment difference: 6.2%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: 0.2; 12.3]</td>
</tr>
<tr>
<td><strong>Median time to progression (weeks):</strong></td>
<td>22.0</td>
<td>23.0</td>
<td>Hazard Ratio: 1.032</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: 0.876; 1.216]</td>
</tr>
<tr>
<td><strong>Overall response rate (%):</strong></td>
<td>31.6</td>
<td>24.5</td>
<td>Treatment difference: 7.1%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: 0.7; 13.5]</td>
</tr>
</tbody>
</table>

*: Corrected for multiple comparisons and adjusted for stratification factors (stage of disease and region of treatment), based on evaluable patient population.

Secondary end-points included change of pain, global rating of quality of life by EuroQoL-5D, Lung Cancer Symptom Scale, and changes in Karnosfky performance status. Results on these end-points were supportive of the primary end-points results.

For docetaxel/carboplatin combination, neither equivalent nor non-inferior efficacy could be proven compared to the reference treatment combination VCis.

**Prostate cancer**

The safety and efficacy of docetaxel in combination with prednisone or prednisolone in patients with hormone refractory metastatic prostate cancer were evaluated in a randomized multicenter phase III study. A total of 1006 patients with KPS ≥ 60 were randomized to the following treatment groups:

- Docetaxel 75 mg/m² every 3 weeks for 10 cycles.
- Docetaxel 30 mg/m² administered weekly for the first 5 weeks in a 6 week cycle for 5 cycles.
- Mitoxantrone 12 mg/m² every 3 weeks for 10 cycles.

All 3 regimens were administered in combination with prednisone or prednisolone 5 mg twice daily, continuously.

Patients who received docetaxel every three weeks demonstrated significantly longer overall survival compared to those treated with mitoxantrone. The increase in survival seen in the docetaxel weekly arm was not statistically significant compared to the mitoxantrone control arm. Efficacy endpoints for the docetaxel arms versus the control arm are summarized in the following table:
Given the fact that docetaxel every week presented a slightly better safety profile than docetaxel every 3 weeks, it is possible that certain patients may benefit from docetaxel every week.

No statistical differences were observed between treatment groups for Global Quality of Life.

**Gastric adenocarcinoma**

A multicenter, open-label, randomized study was conducted to evaluate the safety and efficacy of docetaxel for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction, who had not received prior chemotherapy for metastatic disease. A total of 445 patients with KPS > 70 were treated with either docetaxel (T) (75 mg/m² on day 1) in combination with cisplatin (C) (75 mg/m² on day 1) and 5-fluorouracil (F) (750 mg/m² per day for 5 days) or cisplatin (100 mg/m² on day 1) and 5-fluorouracil (1000 mg/m² per day for 5 days). The length of a treatment cycle was 3 weeks for the TCF arm and 4 weeks for the CF arm. The median number of cycles administered per patient was 6 (with a range of 1-16) for the TCF arm compared to 4 (with a range of 1-12) for the CF arm. Time to progression (TTP) was the primary endpoint. The risk reduction of progression was 32.1% and was associated with a significantly longer TTP (p = 0.0004) in favor of the TCF arm. Overall survival was also significantly longer (p = 0.0201) in favor of the TCF arm with a risk reduction of mortality of 22.7%. Efficacy results are summarized in the following table:

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel every 3 weeks</th>
<th>Docetaxel every week</th>
<th>Mitoxantrone every 3 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of patients</td>
<td>335</td>
<td>334</td>
<td>337</td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>18.9</td>
<td>17.4</td>
<td>16.5</td>
</tr>
<tr>
<td>95% CI</td>
<td>(17.0-21.2)</td>
<td>(15.7-19.0)</td>
<td>(14.4-18.6)</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>0.761</td>
<td>0.912</td>
<td>--</td>
</tr>
<tr>
<td>95% CI</td>
<td>(0.619-0.936)</td>
<td>(0.747-1.113)</td>
<td>--</td>
</tr>
<tr>
<td>p-value*</td>
<td>0.0094</td>
<td>0.3624</td>
<td>--</td>
</tr>
<tr>
<td>Number of patients</td>
<td>291</td>
<td>282</td>
<td>300</td>
</tr>
<tr>
<td>PSA** response rate (%)</td>
<td>45.4</td>
<td>47.9</td>
<td>31.7</td>
</tr>
<tr>
<td>95% CI</td>
<td>(39.5-51.3)</td>
<td>(41.9-53.9)</td>
<td>(26.4-37.3)</td>
</tr>
<tr>
<td>p-value*</td>
<td>0.0005</td>
<td>&lt;0.0001</td>
<td>--</td>
</tr>
<tr>
<td>Number of patients</td>
<td>153</td>
<td>154</td>
<td>157</td>
</tr>
<tr>
<td>Pain response rate (%)</td>
<td>34.6</td>
<td>31.2</td>
<td>21.7</td>
</tr>
<tr>
<td>95% CI</td>
<td>(27.1-42.7)</td>
<td>(24.0-39.1)</td>
<td>(15.5-28.9)</td>
</tr>
<tr>
<td>p-value*</td>
<td>0.0107</td>
<td>0.0798</td>
<td>--</td>
</tr>
<tr>
<td>Number of patients</td>
<td>141</td>
<td>134</td>
<td>137</td>
</tr>
<tr>
<td>Tumour response rate (%)</td>
<td>12.1</td>
<td>8.2</td>
<td>6.6</td>
</tr>
<tr>
<td>95% CI</td>
<td>(7.2-18.6)</td>
<td>(4.2-14.2)</td>
<td>(3.0-12.1)</td>
</tr>
<tr>
<td>p-value*</td>
<td>0.1112</td>
<td>0.5853</td>
<td>--</td>
</tr>
</tbody>
</table>

*Stratified log rank test

*Threshold for statistical significance = 0.0175

**PSA: Prostate-Specific Antigen
Efficacy of docetaxel in the treatment of patients with gastric adenocarcinoma

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>TCF</th>
<th>CF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median TTP (months)</td>
<td>5.6</td>
<td>3.7</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(4.86-5.91)</td>
<td>(3.45-4.47)</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>1.473</td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(1.189-1.825)</td>
<td></td>
</tr>
<tr>
<td>*p-value</td>
<td>0.004</td>
<td></td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>9.2</td>
<td>8.6</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(8.38-10.58)</td>
<td>(7.16-9.46)</td>
</tr>
<tr>
<td>2-year estimate (%)</td>
<td>18.4</td>
<td>8.8</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>1.293</td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(1.041-1.606)</td>
<td></td>
</tr>
<tr>
<td>*p-value</td>
<td>0.020</td>
<td></td>
</tr>
<tr>
<td>Overall response rate (CR+PR) (%)</td>
<td>36.7</td>
<td>25.4</td>
</tr>
<tr>
<td>p-value</td>
<td>0.0106</td>
<td></td>
</tr>
<tr>
<td>Progressive disease as best overall response (%)</td>
<td>16.7</td>
<td>25.9</td>
</tr>
</tbody>
</table>

*Unstratified logrank test

Subgroup analyses across age, gender and race consistently favored the TCF arm compared to the CF arm.

A survival update analysis conducted with a median follow-up time of 41.6 months no longer showed a statistically significant difference although always in favour of the TCF regimen and showed that the benefit of TCF over CF is clearly observed between 18 and 30 months of follow up.

Overall, quality of life (QoL) and clinical benefit results consistently indicated improvement in favor of the TCF arm. Patients treated with TCF had a longer time to 5% definitive deterioration of global health status on the QLQ-C30 questionnaire (p = 0.0121) and a longer time to definitive worsening of Karnofsky performance status (p = 0.0088) compared to patients treated with CF.

**Head and neck cancer**

- **Induction chemotherapy followed by radiotherapy (TAX323)**
  
The safety and efficacy of docetaxel in the induction treatment of patients with squamous cell carcinoma of the head and neck (SCCHN) was evaluated in a phase III, multicenter, open-label, randomized study (TAX323). In this study, 358 patients with inoperable locally advanced SCCHN, and WHO performance status 0 or 1, were randomized to one of two treatment arms. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² followed by cisplatin (P) 75 mg/m² followed by 5-fluorouracil (F) 750 mg/m² per day as a continuous infusion for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (≥ 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks and a maximal interval of 7 weeks, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines for 7 weeks (TPF/RT). Patients on the comparator arm received cisplatin (P) 100 mg/m² followed by 5-fluorouracil (F) 1000 mg/m² per day for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (≥ 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks and a maximal interval of 7 weeks, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines for 7 weeks (PF/RT). Locoregional therapy with radiation was delivered either with a conventional fraction (1.8 Gy - 2.0 Gy once a day, 5 days per week for a total dose of 66 to 70 Gy), or accelerated/hyperfractionated regimens of radiation therapy (twice a day, with a minimum interfraction interval of 6 hours, 5 days per week). A total of 70 Gy was recommended for accelerated regimens and 74 Gy for hyperfractionated schemes. Surgical resection was allowed following chemotherapy, before or after radiotherapy. Patients on the TPF arm received antibiotic prophylaxis with ciprofloxacin 500 mg orally twice daily for 10 days starting on day 5 of each cycle, or equivalent.
The primary endpoint in this study, progression-free survival (PFS), was significantly longer in the TPF arm compared to the PF arm, \( p = 0.0042 \) (median PFS: 11.4 vs. 8.3 months respectively) with an overall median follow up time of 33.7 months. Median overall survival was also significantly longer in favor of the TPF arm compared to the PF arm (median OS: 18.6 vs. 14.5 months respectively) with a 28% risk reduction of mortality, \( p = 0.0128 \). Efficacy results are presented in the table below:

### Efficacy of docetaxel in the induction treatment of patients with inoperable locally advanced SCCHN (Intent-to-Treat Analysis)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel + Cis + 5-FU</th>
<th>Cis + 5-FU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median progression free survival (months)</td>
<td>n = 177</td>
<td>n = 181</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>11.4 (10.1-14.0)</td>
<td>8.3 (7.4-9.1)</td>
</tr>
<tr>
<td>Adjusted hazard ratio</td>
<td>0.70 (0.55-0.89)</td>
<td>0.0042</td>
</tr>
<tr>
<td>Median survival (months) (95% CI)</td>
<td>18.6 (15.7-24.0)</td>
<td>14.5 (11.6-18.7)</td>
</tr>
<tr>
<td>Hazard ratio (95% CI)</td>
<td>0.72 (0.56-0.93)</td>
<td>0.0128</td>
</tr>
<tr>
<td>Best overall response to chemotherapy (%)</td>
<td>67.8 (60.4-74.6)</td>
<td>53.6 (46.0-61.0)</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>0.006</td>
<td></td>
</tr>
<tr>
<td>Best overall response to study treatment [chemotherapy +/- radiotherapy] (%) (95% CI)</td>
<td>72.3 (65.1-78.8)</td>
<td>58.6 (51.0-65.8)</td>
</tr>
<tr>
<td>***p-value</td>
<td>0.006</td>
<td></td>
</tr>
<tr>
<td>Median duration of response to chemotherapy ± radiotherapy (months) (95% CI)</td>
<td>n = 128</td>
<td>n = 106</td>
</tr>
<tr>
<td>15.7 (13.4-24.6)</td>
<td>11.7 (10.2-17.4)</td>
<td></td>
</tr>
<tr>
<td>Hazard ratio (95% CI)</td>
<td>0.72 (0.52-0.99)</td>
<td>0.0457</td>
</tr>
<tr>
<td>**p-value</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A hazard ratio of less than 1 favors docetaxel + cisplatin + 5-FU

*Cox model (adjustment for Primary tumour site, T and N clinical stages and PSWHO)*

**Logrank test

*** Chi-square test

### Quality of life parameters

Patients treated with TPF experienced significantly less deterioration of their Global health score compared to those treated with PF (\( p = 0.01 \), using the EORTC QLQ-C30 scale).

### Clinical benefit parameters

The performance status scale, for head and neck (PSS-HN) subscales designed to measure understandability of speech, ability to eat in public, and normalcy of diet, was significantly in favor of TPF as compared to PF.

Median time to first deterioration of WHO performance status was significantly longer in the TPF arm compared to PF. Pain intensity score improved during treatment in both groups indicating adequate pain management.
• Induction chemotherapy followed by chemoradiotherapy (TAX324)
The safety and efficacy of docetaxel in the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck (SCCHN) was evaluated in a randomized, multicenter open-label, phase III study (TAX324). In this study, 501 patients, with locally advanced SCCHN, and a WHO performance status of 0 or 1, were randomized to one of two arms. The study population comprised patients with technically unresectable disease, patients with low probability of surgical cure and patients aiming at organ preservation. The efficacy and safety evaluation solely addressed survival endpoints and the success of organ preservation was not formally addressed. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² by intravenous infusion on day 1 followed by cisplatin (P) 100 mg/m² administered as a 30-minute to three-hour intravenous infusion, followed by the continuous intravenous infusion of 5-fluorouracil (F) 1000 mg/m²/day from day 1 to day 4. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive chemoradiotherapy (CRT) as per protocol (TPF/CRT). Patients on the comparator arm received cisplatin (P) 100 mg/m² as a 30-minute to three-hour intravenous infusion on day 1 followed by the continuous intravenous infusion of 5-fluorouracil (F) 1000 mg/m²/day from day 1 to day 5. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive CRT as per protocol (PF/CRT).

Patients in both treatment arms were to receive 7 weeks of CRT following induction chemotherapy with a minimum interval of 3 weeks and no later than 8 weeks after start of the last cycle (day 22 to day 56 of last cycle). During radiotherapy, carboplatin (AUC 1.5) was given weekly as a one-hour intravenous infusion for a maximum of 7 doses. Radiation was delivered with megavoltage equipment using once daily fractionation (2 Gy per day, 5 days per week for 7 weeks, for a total dose of 70-72 Gy). Surgery on the primary site of disease and/or neck could be considered at anytime following completion of CRT. All patients on the docetaxel-containing arm of the study received prophylactic antibiotics. The primary efficacy endpoint in this study, overall survival (OS) was significantly longer (log-rank test, p = 0.0058) with the docetaxel-containing regimen compared to PF (median OS: 70.6 versus 30.1 months respectively), with a 30% risk reduction in mortality compared to PF (hazard ratio (HR) = 0.70, 95% confidence interval (CI) = 0.54-0.90) with an overall median follow up time of 41.9 months. The secondary endpoint, PFS, demonstrated a 29% risk reduction of progression or death and a 22 month improvement in median PFS (35.5 months for TPF and 13.1 for PF). This was also statistically significant with an HR of 0.71; 95% CI 0.56-0.90; log-rank test p = 0.004. Efficacy results are presented in the table below:
**Efficacy of docetaxel in the induction treatment of patients with locally advanced SCCHN (Intent-to-Treat Analysis)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel + Cis + 5-FU</th>
<th>Cis + 5-FU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n = 255</td>
<td>n = 246</td>
</tr>
<tr>
<td>Median overall survival (months) (95% CI)</td>
<td>70.6 (49.0-NA)</td>
<td>30.1 (20.9-51.5)</td>
</tr>
<tr>
<td>Hazard ratio: (95% CI) *p-value</td>
<td>0.70 (0.54-0.90)</td>
<td>0.0058</td>
</tr>
<tr>
<td>Median PFS (months) (95% CI)</td>
<td>35.5 (19.3-NA)</td>
<td>13.1 (10.6-20.2)</td>
</tr>
<tr>
<td>Hazard ratio: (95% CI) **p-value</td>
<td>0.71 (0.56 - 0.90)</td>
<td>0.004</td>
</tr>
<tr>
<td>Best overall response (CR + PR) to chemotherapy (%) (95% CI) ***p-value</td>
<td>71.8 (65.8-77.2)</td>
<td>64.2 (57.9-70.2)</td>
</tr>
<tr>
<td>Best overall response (CR + PR) to study treatment [chemotherapy +/- chemoradiotherapy] (%) (95%CI) ***p-value</td>
<td>76.5 (70.8-81.5)</td>
<td>71.5 (65.5-77.1)</td>
</tr>
</tbody>
</table>

A hazard ratio of less than 1 favors docetaxel + cisplatin + fluorouracil
*un-adjusted log-rank test
**un-adjusted log-rank test, not adjusted for multiple comparisons
***Chi square test, not adjusted for multiple comparisons
NA-not applicable

**Paediatric population**

The European Medicines Agency has waived the obligation to submit the results of studies with TAXOTERE in all subsets of the paediatric population in breast cancer, non-small cell lung cancer, prostatic cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma (see section 4.2 for information on paediatric use).

**5.2 Pharmacokinetic properties**

**Absorption**

The pharmacokinetics of docetaxel have been evaluated in cancer patients after administration of 20-115 mg/m² in phase I studies. The kinetic profile of docetaxel is dose independent and consistent with a three-compartment pharmacokinetic model with half lives for the α, β and γ phases of 4 min, 36 min and 11.1 h, respectively. The late phase is due, in part, to a relatively slow efflux of docetaxel from the peripheral compartment.

**Distribution**

Following the administration of a 100 mg/m² dose given as a one-hour infusion a mean peak plasma level of 3.7 µg/ml was obtained with a corresponding AUC of 4.6 h.µg/ml. Mean values for total body clearance and steady-state volume of distribution were 21 l/h/m² and 113 l, respectively. Inter individual variation in total body clearance was approximately 50%. Docetaxel is more than 95% bound to plasma proteins.
Elimination

A study of $^{14}$C-docetaxel has been conducted in three cancer patients. Docetaxel was eliminated in both the urine and faeces following cytochrome P450-mediated oxidative metabolism of the tert-butyl ester group, within seven days, the urinary and faecal excretion accounted for about 6% and 75% of the administered radioactivity, respectively. About 80% of the radioactivity recovered in faeces is excreted during the first 48 hours as one major inactive metabolite and 3 minor inactive metabolites and very low amounts of unchanged medicinal product.

Special populations

Age and gender
A population pharmacokinetic analysis has been performed with docetaxel in 577 patients. Pharmacokinetic parameters estimated by the model were very close to those estimated from phase I studies. The pharmacokinetics of docetaxel were not altered by the age or sex of the patient.

Hepatic impairment
In a small number of patients ($n = 23$) with clinical chemistry data suggestive of mild to moderate liver function impairment (ALT, AST $\geq 1.5$ times the ULN associated with alkaline phosphatase $\geq 2.5$ times the ULN), total clearance was lowered by 27% on average (see section 4.2).

Fluid retention
Docetaxel clearance was not modified in patients with mild to moderate fluid retention and there are no data available in patients with severe fluid retention.

Combination therapy

Doxorubicin
When used in combination, docetaxel does not influence the clearance of doxorubicin and the plasma levels of doxorubicinol (a doxorubicin metabolite). The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their co-administration.

Capecitabine
Phase I study evaluating the effect of capecitabine on the pharmacokinetics of docetaxel and vice versa showed no effect by capecitabine on the pharmacokinetics of docetaxel (Cmax and AUC) and no effect by docetaxel on the pharmacokinetics of a relevant capecitabine metabolite 5’-DFUR.

Cisplatin
Clearance of docetaxel in combination therapy with cisplatin was similar to that observed following monotherapy. The pharmacokinetic profile of cisplatin administered shortly after docetaxel infusion is similar to that observed with cisplatin alone.

Cisplatin and 5-fluorouracil
The combined administration of docetaxel, cisplatin and 5-fluorouracil in 12 patients with solid tumours had no influence on the pharmacokinetics of each individual medicinal product.

Prednisone and dexamethasone
The effect of prednisone on the pharmacokinetics of docetaxel administered with standard dexamethasone premedication has been studied in 42 patients.

Prednisone
No effect of prednisone on the pharmacokinetics of docetaxel was observed.

5.3 Preclinical safety data

The carcinogenic potential of docetaxel has not been studied.
Docetaxel has been shown to be mutagenic in the \textit{in vitro} micronucleus and chromosome aberration test in CHO-K1 cells and in the \textit{in vivo} micronucleus test in the mouse. However, it did not induce mutagenicity in the Ames test or the CHO/HGPRT gene mutation assay. These results are consistent with the pharmacological activity of docetaxel.

Undesirable effects on the testis observed in rodent toxicity studies suggest that docetaxel may impair male fertility.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Polysorbate 80
Ethanol anhydrous
Citric acid

6.2 Incompatibilities

This medicinal product must not be mixed with other medicinal products except those mentioned in section 6.6.

6.3 Shelf-life

\textbf{Unopened vial}

2 years

\textbf{After opening of the vial}

Each vial is for single use and should be used immediately after opening. If not used immediately, in-use storage times and conditions are the responsibility of the user.

\textbf{Once added to the infusion bag}

From a microbiological point of view, reconstitution/dilution must take place in controlled and aseptic conditions and the medicinal product should be used immediately. If not used immediately, in-use storage times and conditions are the responsibility of the user.

Once added as recommended into the infusion bag, the docetaxel infusion solution, if stored below 25°C, is stable for 6 hours. It should be used within 6 hours (including the one hour infusion intravenous administration).

In addition, physical and chemical in-use stability of the infusion solution prepared as recommended has been demonstrated in non-PVC bags up to 48 hours when stored between 2 to 8°C.

Docetaxel infusion solution is supersaturated, therefore may crystallize over time. If crystals appear, the solution must no longer be used and shall be discarded.

6.4 Special precautions for storage

Do not store above 25°C.
Store in the original package in order to protect from light.

For storage conditions of the diluted medicinal product, see section 6.3.
6.5 Nature and contents of container

7 ml clear glass (type I) vial with a green aluminium seal and a green plastic flip-off cap containing 1 ml of concentrate.

Each box contains one vial.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

TAXOTERE is an antineoplastic agent and, as with other potentially toxic compounds, caution should be exercised when handling it and preparing TAXOTERE solutions. The use of gloves is recommended.

If TAXOTERE concentrate or infusion solution should come into contact with skin, wash immediately and thoroughly with soap and water. If TAXOTERE concentrate or infusion solution should come into contact with mucous membranes, wash immediately and thoroughly with water.

Preparation for the intravenous administration

Preparation of the infusion solution

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (TAXOTERE 20 mg/1 ml concentrate for solution for infusion, which contains only 1 vial).

TAXOTERE 20 mg/1 ml concentrate for solution for infusion requires NO prior dilution with a solvent and is ready to add to the infusion solution.

Each vial is of single use and should be used immediately.

If the vials are stored under refrigeration, allow the required number of boxes of TAXOTERE concentrate for solution for infusion to stand below 25°C for 5 minutes before use.

More than one vial of TAXOTERE concentrate for solution for infusion may be necessary to obtain the required dose for the patient. Aseptically withdraw the required amount of TAXOTERE concentrate for solution for infusion using a calibrated syringe fitted with a 21G needle.

In TAXOTERE 20 mg /1 ml vial the concentration of docetaxel is 20 mg/ml.

The required volume of TAXOTERE concentrate for solution for infusion must be injected via a single injection (one shot) into a 250 ml infusion bag or bottle containing either 5% glucose solution or sodium chloride 9 mg/ml (0.9%) solution for infusion.

If a dose greater than 190 mg of docetaxel is required, use a larger volume of the infusion vehicle so that a concentration of 0.74 mg/ml docetaxel is not exceeded.

Mix the infusion bag or bottle manually using a rocking motion.

The infusion bag solution should be used within 6 hours below 25°C including the one hour infusion to the patient.

As with all parenteral products, TAXOTERE infusion solution should be visually inspected prior to use, solutions containing a precipitate should be discarded.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.
7. MARKETING AUTHORISATION HOLDER
Aventis Pharma S.A., 20 avenue Raymond Aron, 92165 Antony Cedex, France

8. MARKETING AUTHORISATION NUMBER
EU/1/95/002/003

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION
Date of first authorisation: 27 November 1995
Date of latest renewal: 27 November 2005

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu
1. NAME OF THE MEDICINAL PRODUCT

TAXOTERE 80 mg/4 ml concentrate for solution for infusion

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each ml of concentrate contains 20 mg docetaxel (as trihydrate).

One vial of 4 ml of concentrate contains 80 mg of docetaxel.

Excipient with known effect:
Each vial of concentrate contains 2 ml of ethanol anhydrous (1.58 g).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Concentrate for solution for infusion (sterile concentrate).

The concentrate is a pale yellow to brownish-yellow solution.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Breast cancer

TAXOTERE in combination with doxorubicin and cyclophosphamide is indicated for the adjuvant treatment of patients with:

- operable node-positive breast cancer
- operable node-negative breast cancer.

For patients with operable node-negative breast cancer, adjuvant treatment should be restricted to patients eligible to receive chemotherapy according to internationally established criteria for primary therapy of early breast cancer (see section 5.1).

TAXOTERE in combination with doxorubicin is indicated for the treatment of patients with locally advanced or metastatic breast cancer who have not previously received cytotoxic therapy for this condition.

TAXOTERE monotherapy is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic therapy. Previous chemotherapy should have included an anthracycline or an alkylating agent.

TAXOTERE in combination with trastuzumab is indicated for the treatment of patients with metastatic breast cancer whose tumours over express HER2 and who previously have not received chemotherapy for metastatic disease.

TAXOTERE in combination with capecitabine is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy. Previous therapy should have included an anthracycline.
Non-small cell lung cancer

TAXOTERE is indicated for the treatment of patients with locally advanced or metastatic non-small cell lung cancer after failure of prior chemotherapy.

TAXOTERE in combination with cisplatin is indicated for the treatment of patients with unresectable, locally advanced or metastatic non-small cell lung cancer, in patients who have not previously received chemotherapy for this condition.

Prostate cancer

TAXOTERE in combination with prednisone or prednisolone is indicated for the treatment of patients with hormone refractory metastatic prostate cancer.

Gastric adenocarcinoma

TAXOTERE in combination with cisplatin and 5-fluorouracil is indicated for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction, who have not received prior chemotherapy for metastatic disease.

Head and neck cancer

TAXOTERE in combination with cisplatin and 5-fluorouracil is indicated for the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck.

4.2 Posology and method of administration

The use of docetaxel should be confined to units specialised in the administration of cytotoxic chemotherapy and it should only be administered under the supervision of a physician qualified in the use of anticancer chemotherapy (see section 6.6).

Recommended dose

For breast, non-small cell lung, gastric, and head and neck cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day (e.g. 8 mg BID) for 3 days starting 1 day prior to docetaxel administration, unless contraindicated, can be used (see section 4.4). Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities.

For prostate cancer, given the concurrent use of prednisone or prednisolone the recommended premedication regimen is oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the docetaxel infusion (see section 4.4).

Docetaxel is administered as a one-hour infusion every three weeks.

Breast cancer

In the adjuvant treatment of operable node-positive and node-negative breast cancer, the recommended dose of docetaxel is 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² every 3 weeks for 6 cycles (TAC regimen) (see also Dose adjustments during treatment). For the treatment of patients with locally advanced or metastatic breast cancer, the recommended dose of docetaxel is 100 mg/m² in monotherapy. In first-line treatment, docetaxel 75 mg/m² is given in combination therapy with doxorubicin (50 mg/m²).

In combination with trastuzumab the recommended dose of docetaxel is 100 mg/m² every three weeks, with trastuzumab administered weekly. In the pivotal study the initial docetaxel infusion was started the day following the first dose of trastuzumab. The subsequent docetaxel doses were administered immediately after completion of the trastuzumab infusion, if the preceding dose of trastuzumab was well tolerated. For trastuzumab dose and administration, see trastuzumab summary of product characteristics.
In combination with capecitabine, the recommended dose of docetaxel is 75 mg/m² every three weeks, combined with capecitabine at 1250 mg/m² twice daily (within 30 minutes after a meal) for 2 weeks followed by a 1-week rest period. For capecitabine dose calculation according to body surface area, see capecitabine summary of product characteristics.

**Non-small cell lung cancer**
In chemotherapy naïve patients treated for non-small cell lung cancer, the recommended dose regimen is docetaxel 75 mg/m² immediately followed by cisplatin 75 mg/m² over 30-60 minutes. For treatment after failure of prior platinum-based chemotherapy, the recommended dose is 75 mg/m² as a single agent.

**Prostate cancer**
The recommended dose of docetaxel is 75 mg/m². Prednisone or prednisolone 5 mg orally twice daily is administered continuously (see section 5.1).

**Gastric adenocarcinoma**
The recommended dose of docetaxel is 75 mg/m² as a 1-hour infusion, followed by cisplatin 75 mg/m², as a 1- to 3-hour infusion (both on day 1 only), followed by 5-fluorouracil 750 mg/m² per day given as a 24-hour continuous infusion for 5 days, starting at the end of the cisplatin infusion. Treatment is repeated every three weeks. Patients must receive premedication with antiemetics and appropriate hydration for cisplatin administration. Prophylactic G-CSF should be used to mitigate the risk of haematological toxicities (see also Dose adjustments during treatment).

**Head and neck cancer**
Patients must receive premedication with antiemetics and appropriate hydration (prior to and after cisplatin administration). Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities. All patients on the docetaxel-containing arm of the TAX 323 and TAX 324 studies, received prophylactic antibiotics.

- Induction chemotherapy followed by radiotherapy (TAX 323)
  For the induction treatment of inoperable locally advanced squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1 hour infusion followed by cisplatin 75 mg/m² over 1 hour, on day one, followed by 5-fluorouracil as a continuous infusion at 750 mg/m² per day for five days. This regimen is administered every 3 weeks for 4 cycles. Following chemotherapy, patients should receive radiotherapy.

- Induction chemotherapy followed by chemoradiotherapy (TAX 324)
  For the induction treatment of patients with locally advanced (technically unresectable, low probability of surgical cure, and aiming at organ preservation) squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1 hour intravenous infusion on day 1, followed by cisplatin 100 mg/m² administered as a 30-minute to 3-hour infusion, followed by 5-fluorouracil 1000 mg/m²/day as a continuous infusion from day 1 to day 4. This regimen is administered every 3 weeks for 3 cycles. Following chemotherapy, patients should receive chemoradiotherapy.

For cisplatin and 5-fluorouracil dose modifications, see the corresponding summary of product characteristics.

**Dose adjustments during treatment**

**General**
Docetaxel should be administered when the neutrophil count is ≥ 1,500 cells/mm³. In patients who experienced either febrile neutropenia, neutrophil count < 500 cells/mm³ for more than one week, severe or cumulative cutaneous reactions or severe peripheral neuropathy during docetaxel therapy, the dose of docetaxel should be reduced from 100 mg/m² to 75 mg/m² and/or from 75 to
60 mg/m². If the patient continues to experience these reactions at 60 mg/m², the treatment should be discontinued.

**Adjuvant therapy for breast cancer**
Primary G-CSF prophylaxis should be considered in patients who receive docetaxel, doxorubicin and cyclophosphamide (TAC) adjuvant therapy for breast cancer. Patients who experience febrile neutropenia and/or neutropenic infection should have their docetaxel dose reduced to 60 mg/m² in all subsequent cycles (see sections 4.4 and 4.8). Patients who experience Grade 3 or 4 stomatitis should have their dose decreased to 60 mg/m².

**In combination with cisplatin**
For patients who are dosed initially at docetaxel 75 mg/m² in combination with cisplatin and whose nadir of platelet count during the previous course of therapy is < 25,000 cells/mm³, or in patients who experience febrile neutropenia, or in patients with serious non-haematologic toxicities, the docetaxel dose in subsequent cycles should be reduced to 65 mg/m². For cisplatin dose adjustments, see the corresponding summary of product characteristics.

**In combination with capecitabine**
- For capecitabine dose modifications, see capecitabine summary of product characteristics.
- For patients developing the first appearance of Grade 2 toxicity, which persists at the time of the next docetaxel/capecitabine treatment, delay treatment until resolved to Grade 0-1, and resume at 100% of the original dose.
- For patients developing the second appearance of Grade 2 toxicity, or the first appearance of Grade 3 toxicity, at any time during the treatment cycle, delay treatment until resolved to Grade 0-1 and then resume treatment with docetaxel 55 mg/m².
- For any subsequent appearances of toxicities, or any Grade 4 toxicities, discontinue the docetaxel dose.

For trastuzumab dose modifications, see trastuzumab summary of product characteristics.

**In combination with cisplatin and 5-fluorouracil**
If an episode of febrile neutropenia, prolonged neutropenia or neutropenic infection occurs despite G-CSF use, the docetaxel dose should be reduced from 75 to 60 mg/m². If subsequent episodes of complicated neutropenia occur the docetaxel dose should be reduced from 60 to 45 mg/m². In case of Grade 4 thrombocytopenia the docetaxel dose should be reduced from 75 to 60 mg/m². Patients should not be retreated with subsequent cycles of docetaxel until neutrophils recover to a level > 1,500 cells/mm³ and platelets recover to a level > 100,000 cells/mm³. Discontinue treatment if these toxicities persist (see section 4.4).
Recommended dose modifications for toxicities in patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (5-FU):

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Dose adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diarrhoea grade 3</td>
<td>First episode: reduce 5-FU dose by 20%.</td>
</tr>
<tr>
<td></td>
<td>Second episode: then reduce docetaxel dose by 20%.</td>
</tr>
<tr>
<td>Diarrhoea grade 4</td>
<td>First episode: reduce docetaxel and 5-FU doses by 20%.</td>
</tr>
<tr>
<td>Stomatitis/mucositis grade 3</td>
<td>First episode: reduce 5-FU dose by 20%.</td>
</tr>
<tr>
<td></td>
<td>Second episode: stop 5-FU only, at all subsequent cycles.</td>
</tr>
<tr>
<td></td>
<td>Third episode: reduce docetaxel dose by 20%.</td>
</tr>
<tr>
<td>Stomatitis/mucositis grade 4</td>
<td>First episode: stop 5-FU only, at all subsequent cycles.</td>
</tr>
<tr>
<td></td>
<td>Second episode: reduce docetaxel dose by 20%.</td>
</tr>
</tbody>
</table>

For cisplatin and 5-fluorouracil dose adjustments, see the corresponding summary of product characteristics.
In the pivotal SCCHN studies patients who experienced complicated neutropenia (including prolonged neutropenia, febrile neutropenia, or infection), it was recommended to use G-CSF to provide prophylactic coverage (e.g., day 6-15) in all subsequent cycles.

**Special populations**

*Patients with hepatic impairment*
Based on pharmacokinetic data with docetaxel at 100 mg/m² as single agent, patients who have both elevations of transaminase (ALT and/or AST) greater than 1.5 times the upper limit of the normal range (ULN) and alkaline phosphatase greater than 2.5 times the ULN, the recommended dose of docetaxel is 75 mg/m² (see sections 4.4 and 5.2). For those patients with serum bilirubin > ULN and/or ALT and AST > 3.5 times the ULN associated with alkaline phosphatase > 6 times the ULN, no dose-reduction can be recommended and docetaxel should not be used unless strictly indicated.

In combination with cisplatin and 5-fluourouracil for the treatment of patients with gastric adenocarcinoma, the pivotal clinical study excluded patients with ALT and/or AST > 1.5 × ULN associated with alkaline phosphatase > 2.5 × ULN, and bilirubin > 1 x ULN; for these patients, no dose-reductions can be recommended and docetaxel should not be used unless strictly indicated. No data are available in patients with hepatic impairment treated by docetaxel in combination in the other indications.

*Paediatric population*
The safety and efficacy of TAXOTERE in nasopharyngeal carcinoma in children aged 1 month to less than 18 years have not yet been established.

There is no relevant use of TAXOTERE in the paediatric population in the indications breast cancer, non-small cell lung cancer, prostate cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma.

*Older people*
Based on a population pharmacokinetic analysis, there are no special instructions for use in the older people.

In combination with capecitabine, for patients 60 years of age or more, a starting dose reduction of capecitabine to 75% is recommended (see capecitabine summary of product characteristics).

**4.3 Contraindications**

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Patients with baseline neutrophil count of < 1,500 cells/mm³.

Patients with severe liver impairment (see sections 4.2 and 4.4).

Contraindications for other medicinal products also apply, when combined with docetaxel.

**4.4 Special warnings and precautions for use**

For breast and non-small cell lung cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day (e.g. 8 mg BID) for 3 days starting 1 day prior to docetaxel administration, unless contraindicated, can reduce the incidence and severity of fluid retention as well as the severity of hypersensitivity reactions. For prostate cancer, the premedication is oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the docetaxel infusion (see section 4.2).

**Haematology**

Neutropenia is the most frequent adverse reaction of docetaxel. Neutrophil nadirs occurred at a median of 7 days but this interval may be shorter in heavily pre-treated patients. Frequent monitoring of complete blood counts should be conducted on all patients receiving docetaxel. Patients should be retreated with docetaxel when neutrophils recover to a level ≥ 1,500 cells/mm³ (see section 4.2).
In the case of severe neutropenia (< 500 cells/mm³ for seven days or more) during a course of docetaxel therapy, a reduction in dose for subsequent courses of therapy or the use of appropriate symptomatic measures are recommended (see section 4.2).

In patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (TCF), febrile neutropenia and neutropenic infection occurred at lower rates when patients received prophylactic G-CSF. Patients treated with TCF should receive prophylactic G-CSF to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients receiving TCF should be closely monitored (see sections 4.2 and 4.8).

In patients treated with docetaxel in combination with doxorubicin and cyclophosphamide (TAC), febrile neutropenia and/or neutropenic infection occurred at lower rates when patients received primary G-CSF prophylaxis. Primary G-CSF prophylaxis should be considered in patients who receive adjuvant therapy with TAC for breast cancer to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients receiving TAC should be closely monitored (see sections 4.2 and 4.8).

Hypersensitivity reactions

Patients should be observed closely for hypersensitivity reactions especially during the first and second infusions. Hypersensitivity reactions may occur within a few minutes following the initiation of the infusion of docetaxel, thus facilities for the treatment of hypotension and bronchospasm should be available. If hypersensitivity reactions occur, minor symptoms such as flushing or localised cutaneous reactions do not require interruption of therapy. However, severe reactions, such as severe hypotension, bronchospasm or generalised rash/erythema require immediate discontinuation of docetaxel and appropriate therapy. Patients who have developed severe hypersensitivity reactions should not be re-challenged with docetaxel.

Cutaneous reactions

Localised skin erythema of the extremities (palms of the hands and soles of the feet) with oedema followed by desquamation has been observed. Severe symptoms such as eruptions followed by desquamation which lead to interruption or discontinuation of docetaxel treatment were reported (see section 4.2).

Fluid retention

Patients with severe fluid retention such as pleural effusion, pericardial effusion and ascites should be monitored closely.

Respiratory disorders

Acute respiratory distress syndrome, interstitial pneumonia/pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure have been reported and may be associated with fatal outcome. Cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.

If new or worsening pulmonary symptoms develop, patients should be closely monitored, promptly investigated, and appropriately treated. Interruption of docetaxel therapy is recommended until diagnosis is available. Early use of supportive care measures may help improve the condition. The benefit of resuming docetaxel treatment must be carefully evaluated.

Patients with liver impairment

In patients treated with docetaxel at 100 mg/m² as single agent who have serum transaminase levels (ALT and/or AST) greater than 1.5 times the ULN concurrent with serum alkaline phosphatase levels greater than 2.5 times the ULN, there is a higher risk of developing severe adverse reactions such as
toxic deaths including sepsis and gastrointestinal haemorrhage which can be fatal, febrile neutropenia, infections, thrombocytopenia, stomatitis and asthenia. Therefore, the recommended dose of docetaxel in those patients with elevated liver function test (LFTs) is 75 mg/m² and LFTs should be measured at baseline and before each cycle (see section 4.2).

For patients with serum bilirubin levels > ULN and/or ALT and AST > 3.5 times the ULN concurrent with serum alkaline phosphatase levels > 6 times the ULN, no dose-reduction can be recommended and docetaxel should not be used unless strictly indicated.

In combination with cisplatin and 5-fluorouracil for the treatment of patients with gastric adenocarcinoma, the pivotal clinical study excluded patients with ALT and/or AST > 1.5 × ULN associated with alkaline phosphatase > 2.5 × ULN, and bilirubin > 1 × ULN; for these patients, no dose-reductions can be recommended and docetaxel should not be used unless strictly indicated. No data are available in patients with hepatic impairment treated by docetaxel in combination in the other indications.

Patients with renal impairment

There are no data available in patients with severely impaired renal function treated with docetaxel.

Nervous system

The development of severe peripheral neurotoxicity requires a reduction of dose (see section 4.2).

Cardiac toxicity

Heart failure has been observed in patients receiving docetaxel in combination with trastuzumab, particularly following anthracycline (doxorubicin or epirubicin)-containing chemotherapy. This may be moderate to severe and has been associated with death (see section 4.8).

When patients are candidates for treatment with docetaxel in combination with trastuzumab, they should undergo baseline cardiac assessment. Cardiac function should be further monitored during treatment (e.g. every three months) to help identify patients who may develop cardiac dysfunction. For more details see summary of product characteristics of trastuzumab.

Ventricular arrhythmia including ventricular tachycardia (sometimes fatal) has been reported in patients treated with docetaxel in combination regimens including doxorubicin, 5-fluorouracil and/or cyclophosphamide (see section 4.8).

Baseline cardiac assessment is recommended.

Eye disorders

Cystoid macular oedema (CMO) has been reported in patients treated with docetaxel. Patients with impaired vision should undergo a prompt and complete ophthalmologic examination. In case CMO is diagnosed, docetaxel treatment should be discontinued and appropriate treatment initiated (see section 4.8).

Others

Contraceptive measures must be taken by both men and women during treatment and for men at least 6 months after cessation of therapy (see section 4.6).

The concomitant use of docetaxel with strong CYP3A4 inhibitors (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin and voriconazole) should be avoided (see section 4.5).

Additional cautions for use in adjuvant treatment of breast cancer

Complicated neutropenia
For patients who experience complicated neutropenia (prolonged neutropenia, febrile neutropenia or infection), G-CSF and dose reduction should be considered (see section 4.2).

*Gastrointestinal reactions*
Symptoms such as early abdominal pain and tenderness, fever, diarrhoea, with or without neutropenia, may be early manifestations of serious gastrointestinal toxicity and should be evaluated and treated promptly.

*Congestive heart failure (CHF)*
Patients should be monitored for symptoms of congestive heart failure during therapy and during the follow up period. In patients treated with the TAC regimen for node positive breast cancer, the risk of CHF has been shown to be higher during the first year after treatment (see sections 4.8 and 5.1).

*Leukaemia*
In the docetaxel, doxorubicin and cyclophosphamide (TAC) treated patients, the risk of delayed myelodysplasia or myeloid leukaemia requires haematological follow-up.

*Patients with 4+ nodes*
As the benefit observed in patient with 4+ nodes was not statistically significant on disease-free survival (DFS) and overall survival (OS), the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis (see section 5.1).

*Older people*
There are limited data available in patients > 70 years of age on docetaxel use in combination with doxorubicin and cyclophosphamide.

Of the 333 patients treated with docetaxel every three weeks in a prostate cancer study, 209 patients were 65 years of age or greater and 68 patients were older than 75 years. In patients treated with docetaxel every three weeks, the incidence of related nail changes occurred at a rate ≥ 10% higher in patients who were 65 years of age or greater compared to younger patients. The incidence of related fever, diarrhoea, anorexia, and peripheral oedema occurred at rates ≥ 10% higher in patients who were 75 years of age or greater versus less than 65 years.

Among the 300 (221 patients in the phase III part of the study and 79 patients in the phase II part) patients treated with docetaxel in combination with cisplatin and 5-fluorouracil in the gastric cancer study, 74 were 65 years of age or older and 4 patients were 75 years of age or older. The incidence of serious adverse events was higher in older people compared to younger patients. The incidence of the following adverse events (all grades): lethargy, stomatitis, neutropenic infection occurred at rates ≥ 10% higher in patients who were 65 years of age or older compared to younger patients.

Older people treated with TCF should be closely monitored.

*Excipients*
This medicinal product contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 1.58 g ethanol anhydrous per vial, equivalent to 40 ml of beer or 17 ml wine per vial. Harmful for those suffering from alcoholism.

To be taken into account in pregnant or breast-feeding women, children and high-risk groups such as patients with liver disease, or epilepsy.

Consideration should be given to possible effects on the central nervous system.

The amount of alcohol in this medicinal product may alter the effects of other medicinal products.

The amount of alcohol in this medicinal product may impair the patients ability to drive or use machines (see section 4.7).
4.5 Interaction with other medicinal products and other forms of interaction

*In vitro* studies have shown that the metabolism of docetaxel may be modified by the concomitant administration of compounds which induce, inhibit or are metabolised by (and thus may inhibit the enzyme competitively) cytochrome P450-3A such as ciclosporine, ketoconazole and erythromycin. As a result, caution should be exercised when treating patients with these medicinal products as concomitant therapy since there is a potential for a significant interaction.

In case of combination with CYP3A4 inhibitors, the occurrence of docetaxel adverse reactions may increase, as a result of reduced metabolism. If the concomitant use of a strong CYP3A4 inhibitor (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin and voriconazole) cannot be avoided, a close clinical surveillance is warranted and a dose-adjustment of docetaxel may be suitable during the treatment with the strong CYP3A4 inhibitor (see section 4.4). In a pharmacokinetic study with 7 patients, the co-administration of docetaxel with the strong CYP3A4 inhibitor ketoconazole leads to a significant decrease in docetaxel clearance by 49%.

Docetaxel pharmacokinetics in the presence of prednisone was studied in patients with metastatic prostate cancer. Docetaxel is metabolised by CYP3A4 and prednisone is known to induce CYP3A4. No statistically significant effect of prednisone on the pharmacokinetics of docetaxel was observed.

Docetaxel is highly protein bound (> 95%). Although the possible *in vivo* interaction of docetaxel with concomitantly administered medicinal product has not been investigated formally, *in vitro* interactions with tightly protein-bound agents such as erythromycin, diphenhydramine, propranolol, propafenone, phenytoin, salicylate, sulfamethoxazole and sodium valproate did not affect protein binding of docetaxel. In addition, dexamethasone did not affect protein binding of docetaxel. Docetaxel did not influence the binding of digitoxin.

The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their co-administration. Limited data from a single uncontrolled study were suggestive of an interaction between docetaxel and carboplatin. When combined to docetaxel, the clearance of carboplatin was about 50% higher than values previously reported for carboplatin monotherapy.

4.6 Fertility, pregnancy and lactation

**Pregnancy**

There is no information on the use of docetaxel in pregnant women. Docetaxel has been shown to be both embryotoxic and foetotoxic in rabbits and rats, and to reduce fertility in rats. As with other cytotoxic medicinal products, docetaxel may cause foetal harm when administered to pregnant women. Therefore, docetaxel must not be used during pregnancy unless clearly indicated.

Women of childbearing age receiving docetaxel should be advised to avoid becoming pregnant, and to inform the treating physician immediately should this occur.

**Breast-feeding**

Docetaxel is a lipophilic substance but it is not known whether it is excreted in human milk. Consequently, because of the potential for adverse reactions in nursing infants, breast feeding must be discontinued for the duration of docetaxel therapy.

**Contraception in males and females**

An effective method of contraception should be used during treatment.
Fertility

In non clinical studies, docetaxel has genotoxic effects and may alter male fertility (see section 5.3). Therefore, men being treated with docetaxel are advised not to father a child during and up to 6 months after treatment and to seek advice on conservation of sperm prior to treatment.

4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed. The amount of ethanol in Taxotere may impair the ability to drive or use machines (see section 4.4).

4.8 Undesirable effects

Summary of the safety profile for all indications

The adverse reactions considered to be possibly or probably related to the administration of docetaxel have been obtained in:

- 1312 and 121 patients who received 100 mg/m² and 75 mg/m² of docetaxel as a single agent respectively.
- 258 patients who received docetaxel in combination with doxorubicin.
- 406 patients who received docetaxel in combination with cisplatin.
- 92 patients treated with docetaxel in combination with trastuzumab.
- 255 patients who received docetaxel in combination with capecitabine.
- 332 patients who received docetaxel in combination with prednisone or prednisolone (clinically important treatment related adverse events are presented).
- 1276 patients (744 and 532 in TAX 316 and GEICAM 9805 respectively) who received docetaxel in combination with doxorubicin and cyclophosphamide (clinically important treatment related adverse events are presented).
- 300 gastric adenocarcinoma patients (221 patients in the phase III part of the study and 79 patients in the phase II part) who received docetaxel in combination with cisplatin and 5-fluorouracil (clinically important treatment related adverse events are presented).
- 174 and 251 head and neck cancer patients who received docetaxel in combination with cisplatin and 5-fluorouracil (clinically important treatment related adverse events are presented).

These reactions were described using the NCI Common Toxicity Criteria (grade 3 = G3; grade 3-4 = G3/4; grade 4 = G4), the COSTART and the MedDRA terms. Frequencies are defined as: very common (≥ 1/10), common (≥ 1/100 to < 1/10); uncommon (≥ 1/1,000 to < 1/100); rare (≥ 1/10,000 to < 1/1,000); very rare (< 1/10,000); not known (cannot be estimated from available data).

Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

The most commonly reported adverse reactions of docetaxel alone are: neutropenia (which was reversible and not cumulative; the median day to nadir was 7 days and the median duration of severe neutropenia (< 500 cells/mm³) was 7 days), anaemia, alopecia, nausea, vomiting, stomatitis, diarrhoea and asthenia. The severity of adverse events of docetaxel may be increased when docetaxel is given in combination with other chemotherapeutic agents.

For combination with trastuzumab, adverse events (all grades) reported in ≥ 10% are displayed. There was an increased incidence of SAEs (40% vs. 31%) and Grade 4 AEs (34% vs. 23%) in the trastuzumab combination arm compared to docetaxel monotherapy.

For combination with capecitabine, the most frequent treatment-related undesirable effects (≥ 5%) reported in a phase III study in breast cancer patients failing anthracycline treatment are presented (see capecitabine summary of product characteristics).
The following adverse reactions are frequently observed with docetaxel:

**Immune system disorders**

Hypersensitivity reactions have generally occurred within a few minutes following the start of the infusion of docetaxel and were usually mild to moderate. The most frequently reported symptoms were flushing, rash with or without pruritus, chest tightness, back pain, dyspnoea and fever or chills. Severe reactions were characterised by hypotension and/or bronchospasm or generalized rash/erythema (see section 4.4).

**Nervous system disorders**

The development of severe peripheral neurotoxicity requires a reduction of dose (see sections 4.2 and 4.4). Mild to moderate neuro-sensory signs are characterised by paresthesia, dysesthesia or pain including burning. Neuro-motor events are mainly characterised by weakness.

**Skin and subcutaneous tissue disorders**

Reversible cutaneous reactions have been observed and were generally considered as mild to moderate. Reactions were characterised by a rash including localised eruptions mainly on the feet and hands (including severe hand and foot syndrome), but also on the arms, face or thorax, and frequently associated with pruritus. Eruptions generally occurred within one week after the docetaxel infusion. Less frequently, severe symptoms such as eruptions followed by desquamation which rarely lead to interruption or discontinuation of docetaxel treatment were reported (see sections 4.2 and 4.4). Severe nail disorders are characterised by hypo- or hyperpigmentation and sometimes pain and onycholysis.

**General disorders and administration site conditions**

Infusion site reactions were generally mild and consisted of hyper pigmentation, inflammation, redness or dryness of the skin, phlebitis or extravasation and swelling of the vein. Fluid retention includes events such as peripheral oedema and less frequently pleural effusion, pericardial effusion, ascites and weight gain. The peripheral oedema usually starts at the lower extremities and may become generalised with a weight gain of 3 kg or more. Fluid retention is cumulative in incidence and severity (see section 4.4).

**Tabulated list of adverse reactions in breast cancer for TAXOTERE 100 mg/m² single agent**

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infections (G3/4: 5.7%; including sepsis and pneumonia, fatal in 1.7%)</td>
<td>Infection associated with G4 neutropenia (G3/4: 4.6%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 76.4%); Anaemia (G3/4: 8.9%); Febrile neutropenia</td>
<td>Thrombocytopenia (G4: 0.2%)</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 5.3%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 4.1%); Peripheral motor neuropathy (G3/4: 4%); Dysgeusia (severe:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-------------------------------</td>
<td>-------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>0.07%)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Arrhythmia (G3/4: 0.7%)</td>
<td>Cardiac failure</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td>Hypotension; Hypertension; Haemorrhage</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Dyspnoea (severe: 2.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Stomatitis (G3/4: 5.3%); Diarrhoea (G3/4: 4%); Nausea (G3/4: 4%); Vomiting (G3/4: 3%)</td>
<td>Constipation (severe: 0.2%); Abdominal pain (severe: 1%); Gastrointestinal haemorrhage (severe: 0.3%)</td>
<td>Oesophagitis (severe: 0.4%)</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Skin reaction (G3/4: 5.9%); Nail disorders (severe: 2.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (severe: 1.4%)</td>
<td>Arthralgia</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Fluid retention (severe: 6.5%); Asthenia (severe: 11.2%); Pain</td>
<td>Infusion site reaction; Non-cardiac chest pain (severe: 0.4%)</td>
<td>G3/4 Blood bilirubin increased (&lt; 5%); G3/4 Blood alkaline phosphatase increased (&lt; 4%); G3/4 AST increased (&lt; 3%); G3/4 ALT increased (&lt; 2%)</td>
</tr>
</tbody>
</table>

Description of selected adverse reactions in breast cancer for TAXOTERE 100 mg/m² single agent

**Blood and lymphatic system disorders**
Rare: bleeding episodes associated with grade 3/4 thrombocytopenia.

**Nervous system disorders**
Reversibility data are available among 35.3% of patients who developed neurotoxicity following docetaxel treatment at 100 mg/m² as single agent. The events were spontaneously reversible within 3 months.

**Skin and subcutaneous tissue disorders**
Very rare: one case of alopecia non-reversible at the end of the study. 73% of the cutaneous reactions were reversible within 21 days.
**General disorders and administration site conditions**
The median cumulative dose to treatment discontinuation was more than 1,000 mg/m² and the median time to fluid retention reversibility was 16.4 weeks (range 0 to 42 weeks). The onset of moderate and severe retention is delayed (median cumulative dose: 818.9 mg/m²) in patients with premedication compared with patients without premedication (median cumulative dose: 489.7 mg/m²); however, it has been reported in some patients during the early courses of therapy.

Tabulated list of adverse reactions in non-small cell lung cancer for TAXOTERE 75 mg/m² single agent

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infections (G3/4: 5%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 54.2%); Anaemia (G3/4: 10.8%); Thrombocytopenia (G4: 1.7%)</td>
<td>Febrile neutropenia</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 0.8%)</td>
<td>Peripheral motor neuropathy (G3/4: 2.5%)</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 3.3%); Stomatitis (G3/4: 1.7%); Vomiting (G3/4: 0.8%); Diarrhoea (G3/4: 1.7%)</td>
<td>Constipation</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Skin reaction (G3/4: 0.8%)</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 12.4%); Fluid retention (severe: 0.8%); Pain</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td>G3/4 Blood bilirubin increased (&lt; 2%)</td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions in breast cancer for TAXOTERE 75 mg/m² in combination with doxorubicin

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 7.8%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 91.7%); Anaemia (G3/4: 9.4%); Febrile neutropenia; Thrombocytopenia (G4: 0.8%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 1.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 0.4%)</td>
<td>Peripheral motor neuropathy (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Cardiac failure; Arrhythmia (no severe)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Hypotension</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 5%); Stomatitis (G3/4: 7.8%); Diarrhoea (G3/4: 6.2%); Vomiting (G3/4: 5%); Constipation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (severe: 0.4%); Skin reaction (no severe)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td>Myalgia</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 8.1%); Fluid retention (severe: 1.2%); Pain</td>
<td>Infusion site reaction</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>G3/4 Blood bilirubin increased (&lt; 2.5%); G3/4 Blood alkaline phosphatase increased (&lt; 2.5%)</td>
<td>G3/4 AST increased (&lt; 1%); G3/4 ALT increased (&lt; 1%)</td>
<td></td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions in non-small cell lung cancer for TAXOTERE 75 mg/m² in combination with cisplatin

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 5.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 51.5%);</td>
<td>Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anaemia (G3/4: 6.9%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thrombocytopenia (G4: 0.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 2.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 3.7%); Peripheral motor neuropathy (G3/4: 2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Arrhythmia (G3/4: 0.7%)</td>
<td>Cardiac failure</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Hypotension (G3/4: 0.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 9.6%);</td>
<td>Constipation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vomiting (G3/4: 7.6%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diarrhoea (G3/4: 6.4%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stomatitis (G3/4: 2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (severe: 0.7%); Skin reaction (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue</td>
<td>Myalgia (severe: 0.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site</td>
<td>Asthenia (severe: 9.9%);</td>
<td>Infusion site reaction;</td>
<td></td>
</tr>
<tr>
<td>conditions</td>
<td>Fluid retention (severe: 0.7%); Fever (G3/4: 1.2%)</td>
<td>Pain</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>G3/4 Blood bilirubin increased (2.1%); G3/4 ALT increased (1.3%)</td>
<td>G3/4 AST increased (0.5%); G3/4 Blood alkaline phosphatase increased (0.3%)</td>
<td></td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions in breast cancer for TAXOTERE 100 mg/m² in combination with trastuzumab

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 32%); Febrile neutropenia (includes neutropenia associated with fever and antibiotic use) or neutropenic sepsis</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td>Insomnia</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Paresthesia; Headache; Dysgeusia; Hypoaesthesia</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased; Conjunctivitis</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Cardiac failure</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Lymphoedema</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Epistaxis; Pharyngolaryngeal pain; Nasopharyngitis; Dyspnoea; Cough; Rhinorrhoea</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea; Diarrhoea; Vomiting; Constipation; Stomatitis; Dyspepsia; Abdominal pain</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Erythema; Rash; Nail disorders</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia; Arthralgia; Pain in extremity; Bone pain; Back pain</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia; Oedema peripheral; Pyrexia; Fatigue; Mucosal inflammation; Pain; Influenza like illness; Chest pain; Chills</td>
<td>Lethargy</td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight increased</td>
<td></td>
</tr>
</tbody>
</table>

Description of selected adverse reactions in breast cancer for TAXOTERE 100 mg/m² in combination with trastuzumab

**Blood and lymphatic system disorders**

Very common: Haematological toxicity was increased in patients receiving trastuzumab and docetaxel, compared with docetaxel alone (32% grade 3/4 neutropenia versus 22%, using NCI-CTC criteria). Note that this is likely to be an underestimate since docetaxel alone at a dose of 100 mg/m² is known to result in neutropenia in 97% of patients, 76% grade 4, based on nadir blood counts. The incidence of febrile neutropenia/neutropenic sepsis was also increased in patients treated with Herceptin plus docetaxel (23% versus 17% for patients treated with docetaxel alone).

**Cardiac disorders**

Symptomatic cardiac failure was reported in 2.2% of the patients who received docetaxel plus trastuzumab compared to 0% of patients given docetaxel alone. In the docetaxel plus trastuzumab arm, 64% had received a prior anthracycline as adjuvant therapy compared with 55% in the docetaxel arm alone.
Tabulated list of adverse reactions in breast cancer for TAXOTERE 75 mg/m² in combination with capecitabine

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Oral candidiasis (G3/4: &lt; 1%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 63%); Anaemia (G3/4: 10%)</td>
<td>Thrombocytopenia (G3/4: 3%)</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 1%); Decreased appetite</td>
<td>Dehydration (G3/4: 2%)</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia (G3/4: &lt; 1%); Paraesthesia (G3/4: &lt; 1%)</td>
<td>Dizziness; Headache (G3/4: &lt; 1%); Neuropathy peripheral</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Pharyngolaryngeal pain (G3/4: 2%)</td>
<td>Dyspnoea (G3/4: 1%); Cough (G3/4: &lt; 1%); Epistaxis (G3/4: &lt; 1%)</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Stomatitis (G3/4: 18%); Diarrhoea (G3/4: 14%); Nausea (G3/4: 6%); Vomiting (G3/4: 4%); Constipation (G3/4: 1%); Abdominal pain (G3/4: 2%); Dyspepsia</td>
<td>Abdominal pain upper; Dry mouth</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Hand-foot syndrome (G3/4: 24%); Alopecia (G3/4: 6%); Nail disorders (G3/4: 2%)</td>
<td>Dermatitis; Rash erythematous (G3/4: &lt; 1%); Nail discolouration; Onycholysis (G3/4: 1%)</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (G3/4: 2%); Arthralgia (G3/4: 1%)</td>
<td>Pain in extremity (G3/4: &lt; 1%); Back pain (G3/4: 1%)</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (G3/4: 3%); Pyrexia (G3/4: 1%); Fatigue/weakness (G3/4: 5%); Oedema peripheral (G3/4: 1%)</td>
<td>Lethargy; Pain</td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight decreased; G3/4 Blood bilirubin increased (9%)</td>
<td></td>
</tr>
</tbody>
</table>
### Tabulated list of adverse reactions in prostate cancer for TAXOTERE 75 mg/m² in combination with prednisone or prednisolone

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 3.3%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 32%); Anaemia (G3/4: 4.9%)</td>
<td>Thrombocytopenia (G3/4: 0.6%); Febrile neutropenia</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td>Hypersensitivity (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 1.2%); Dysgeusia (G3/4: 0%)</td>
<td>Peripheral motor neuropathy (G3/4: 0%)</td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td>Lacrimation increased (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Cardiac left ventricular function decrease (G3/4: 0.3%)</td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Epistaxis (G3/4: 0%); Dyspnoea (G3/4: 0.6%); Cough (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 2.4%); Diarrhoea (G3/4: 1.2%); Stomatitis/Pharyngitis (G3/4: 0.9%); Vomiting (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (no severe)</td>
<td>Exfoliative rash (G3/4: 0.3%)</td>
</tr>
<tr>
<td>Musculoskeletal and connective bone disorders</td>
<td></td>
<td>Arthralgia (G3/4: 0.3%); Myalgia (G3/4: 0.3%)</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Fatigue (G3/4: 3.9%); Fluid retention (severe: 0.6%)</td>
<td></td>
</tr>
</tbody>
</table>

### Tabulated list of adverse reactions in breast cancer for adjuvant therapy with TAXOTERE 75 mg/m² in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer - pooled data

<table>
<thead>
<tr>
<th>MedDRA System Organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 2.4%); Neutropenic infection (G3/4: 2.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Anaemia (G3/4: 3%); Neutropenia (G3/4: 59.2%); Thrombocytopenia (G3/4: 1.6%); Febrile neutropenia (G3/4: NA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 1.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 1.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 1.2%); Dysgeusia (G3/4: 0%)</td>
<td>Peripheral motor neuropathy (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td>Lacrimation increased (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Cardiac left ventricular function decrease (G3/4: 0.3%)</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Epistaxis (G3/4: 0%); Dyspnoea (G3/4: 0.6%); Cough (G3/4: 0%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 2.4%); Diarrhoea (G3/4: 1.2%); Stomatitis/Pharyngitis (G3/4: 0.9%); Vomiting (G3/4: 1.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (no severe)</td>
<td>Exfoliative rash (G3/4: 0.3%)</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective bone disorders</td>
<td>Arthralgia (G3/4: 0.3%); Myalgia (G3/4: 0.3%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Fatigue (G3/4: 3.9%); Fluid retention (severe: 0.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MedDRA System Organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------------------------</td>
<td>-------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>nutrition disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia (G3/4: 0.6%);</td>
<td>Peripheral motor</td>
<td>Syncope (G3/4: 0%);</td>
</tr>
<tr>
<td></td>
<td>Peripheral sensory</td>
<td>neuropathy (G3/4:</td>
<td>Neurotoxicity (G3/4: 0%);</td>
</tr>
<tr>
<td></td>
<td>neuropathy (G3/4: &lt;0.1%)</td>
<td>&lt;0.1%)</td>
<td>Somnolence (G3/4: 0%)</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Conjunctivitis (G3/4: &lt;0.1%)</td>
<td>Lacrimation increased (G3/4: &lt;0.1%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Arrhythmia (G3/4: 0.2%)</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Hot flush (G3/4: 0.5%)</td>
<td>Hypotension (G3/4: 0%);</td>
<td>Lymphoedema (G3/4: 0%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Phlebitis (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and</td>
<td></td>
<td>Cough (G3/4: 0%)</td>
<td></td>
</tr>
<tr>
<td>mediastinal disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 5.0%);</td>
<td>Abdominal pain (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stomatitis (G3/4: 6.0%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vomiting (G3/4: 4.2%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diarrhoea (G3/4: 3.4%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Constipation (G3/4: 0.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous</td>
<td>Alopecia (persisting: &lt;3%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td>tissue disorders</td>
<td>Skin disorder (G3/4: 0.6%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nail disorders (G3/4: 0.4%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and</td>
<td>Myalgia (G3/4: 0.7%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td>connective tissue disorders</td>
<td>Arthralgia (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproductive system and</td>
<td>Amenorrhoea (G3/4: NA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>breast disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and</td>
<td>Asthenia (G3/4: 10.0%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td>administration site</td>
<td>Pyrexia (G3/4: NA);</td>
<td></td>
<td></td>
</tr>
<tr>
<td>conditions</td>
<td>Oedema peripheral (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td>Weight increased (G3/4: 0%);</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Weight decreased (G3/4: 0.2%)</td>
<td></td>
</tr>
</tbody>
</table>

Description of selected adverse reactions for adjuvant therapy with TAXOTERE 75 mg/m² in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer

**Nervous system disorders**
In study TAX316 peripheral sensory neuropathy started during the treatment period and persisted into the follow-up period in 84 patients (11.3%) in TAC arm and 15 patients (2%) in FAC arm. At the end
of the follow-up period (median follow-up time of 8 years), peripheral sensory neuropathy was observed to be ongoing in 10 patients (1.3%) in TAC arm, and in 2 patients (0.3%) in FAC arm. In GEICAM 9805 study peripheral sensory neuropathy that started during the treatment period persisted into the follow-up period in 10 patients (1.9%) in TAC arm and 4 patients (0.8%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), peripheral sensory neuropathy was observed to be ongoing in 3 patients (0.6%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

Cardiac disorders
In study TAX316, 26 patients (3.5%) in the TAC arm and 17 patients (2.3%) in the FAC arm experienced congestive heart failure. All except one patient in each arm were diagnosed with CHF more than 30 days after the treatment period. Two patients in the TAC arm and 4 patients in the FAC arm died because of cardiac failure.

In GEICAM 9805 study, 3 patients (0.6%) in TAC arm and 3 patients (0.6%) in FAC arm developed congestive heart failure during the follow-up period. At the end of the follow-up period (actual median follow-up time of 10 years and 5 months), no patients had CHF in TAC arm and 1 patient in TAC arm died because of dilated cardiomyopathy, and CHF was observed to be ongoing in 1 patient (0.2%) in FAC arm.

Skin and subcutaneous tissue disorders
In study TAX316 alopecia persisting into the follow-up period after the end of chemotherapy was reported in 687 of 744 TAC patients (92.3%) and 645 of 736 FAC patients (87.6%). At the end of the follow-up period (actual median follow-up time of 8 years), alopecia was observed to be ongoing in 29 TAC patients (3.9%) and 16 FAC patients (2.2%).

In GEICAM 9805 study alopecia that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 49 patients (9.2%) in TAC arm and 35 patients (6.7%) in FAC arm. Alopecia related to study drug started or worsened during the follow-up period in 42 patients (7.9%) in TAC arm and 30 patients (5.8%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), alopecia was observed to be ongoing in 3 patients (0.6%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

Reproductive system and breast disorders
In TAX316 amenorrhoea that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 202 of 744 TAC patients (27.2%) and 125 of 736 FAC patients (17.0%). Amenorrhoea was observed to be ongoing at the end of the follow-up period (median follow-up time of 8 years) in 121 of 744 TAC patients (16.3%) and 86 FAC patients (11.7%).

In GEICAM 9805 study amenorrhoea that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 18 patients (3.4%) in TAC arm and 5 patients (1.0%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), amenorrhoea was observed to be ongoing in 7 patients (1.3%) in TAC arm, and in 4 patients (0.8%) in FAC arm.

General disorders and administration site conditions
In study TAX316 peripheral oedema that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was observed in 119 of 744 TAC patients (16.0%) and 23 of 736 FAC patients (3.1%). Peripheral oedema was ongoing in 19 TAC patients (2.6%) and 4 FAC patients (0.5%).

In study TAX316 lymphoedema that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 11 of 744 TAC patients (1.5%) and 1 of 736 FAC patients (0.1%). At the end of the follow-up period (actual median follow-up time of 8 years), lymphoedema was observed to be ongoing in 6 TAC patients (0.8%) and 1 FAC patient (0.1%).

In study TAX316 asthenia that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 236 of 744 TAC patients (31.7%) and 180 of 736 FAC patients (24.5%). At the end of the follow-up period (actual median follow-up time of 8 years), asthenia was observed to be ongoing in 29 TAC patients (3.9%) and 16 FAC patients (2.2%).
In study GEICAM 9805 peripheral oedema that started during the treatment period persisted into the follow-up period in 4 patients (0.8%) in TAC arm and in 2 patients (0.4%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), no patients (0%) in TAC arm had peripheral oedema and it was observed to be ongoing in 1 patient (0.2%) in FAC arm. Lymphoedema that started during the treatment period persisted into the follow-up period in 5 patients (0.9%) in TAC arm and 2 patients (0.4%) in FAC arm. At the end of the follow-up period, lymphoedema was observed to be ongoing in 4 patients (0.8%) in TAC arm, and in 1 patient (0.2%) in FAC arm. Asthenia that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 12 patients (2.3%) in TAC arm and 4 patients (0.8%) in FAC arm. At the end of the follow-up period, asthenia was observed to be ongoing in 2 patients (0.4%) in TAC arm, and in 2 patients (0.4%) in FAC arm.

Acute leukaemia / Myelodysplastic syndrome.
After 10 years of follow up in study TAX316, acute leukaemia was reported in 3 of 744 TAC patients (0.4%) and in 1 of 736 FAC patients (0.1%). One TAC patient (0.1%) and 1 FAC patient (0.1%) died due to AML during the follow-up period (median follow-up time of 8 years). Myelodysplastic syndrome was reported in 2 of 744 TAC patients (0.3%) and in 1 of 736 FAC patients (0.1%). After 10 years of follow-up in GEICAM 9805 study, acute leukaemia occurred in 1 of 532 (0.2%) patients in TAC arm. No cases were reported in patients in FAC arm. No patient was diagnosed with myelodysplastic syndrome in either treatment groups.

Neutropenic complications
Table below shows that the incidence of Grade 4 neutropenia, febrile neutropenia and neutropenic infection was decreased in patients who received primary G-CSF prophylaxis after it was made mandatory in the TAC arm – GEICAM study.

Neutropenic complications in patients receiving TAC with or without primary G-CSF prophylaxis (GEICAM 9805)

<table>
<thead>
<tr>
<th></th>
<th>Without primary G-CSF prophylaxis (n = 111)</th>
<th>With primary G-CSF prophylaxis (n = 421)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neutropenia (Grade 4)</td>
<td>104 (93.7)</td>
<td>135 (32.1)</td>
</tr>
<tr>
<td>Febrile neutropenia</td>
<td>28 (25.2)</td>
<td>23 (5.5)</td>
</tr>
<tr>
<td>Neutropenic infection</td>
<td>14 (12.6)</td>
<td>21 (5.0)</td>
</tr>
<tr>
<td>Neutropenic infection</td>
<td>2 (1.8)</td>
<td>5 (1.2)</td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in gastric adenocarcinoma center for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Neutropenic infection; Infection (G3/4: 11.7%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system</td>
<td>Anaemia (G3/4: 20.9%); Neutropenia (G3/4: 83.2%); Thrombocytopenia (G3/4: 8.8%);</td>
<td></td>
</tr>
</tbody>
</table>
### MedDRA system organ classes

<table>
<thead>
<tr>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Febrile neutropenia</td>
<td></td>
</tr>
</tbody>
</table>

**Immune system disorders**

- Hypersensitivity (G3/4: 1.7%)

**Metabolism and nutrition disorders**

- Anorexia (G3/4: 11.7%)

**Nervous system disorders**

- Peripheral sensory neuropathy (G3/4: 8.7%)
- Peripheral motor neuropathy (G3/4: 1.3%)

**Eye disorders**

- Lacrimation increased (G3/4: 0%)

**Ear and labyrinth disorders**

- Hearing impaired (G3/4: 0%)

**Cardiac disorders**

- Arrhythmia (G3/4: 1.0%)

**Gastrointestinal disorders**

- Diarrhoea (G3/4: 19.7%)
- Nausea (G3/4: 16%)
- Stomatitis (G3/4: 23.7%)
- Vomiting (G3/4: 14.3%)

**Skin and subcutaneous tissue disorders**

- Alopecia (G3/4: 4.0%)

**General disorders and administration site conditions**

- Lethargy (G3/4: 19.0%)
- Fever (G3/4: 2.3%)
- Fluid retention (severe/life-threatening: 1%)

### Description of selected adverse reactions in gastric adenocarcinoma cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

**Blood and lymphatic system disorders**

Febrile neutropenia and neutropenic infection occurred in 17.2% and 13.5% of patients respectively, regardless of G-CSF use. G-CSF was used for secondary prophylaxis in 19.3% of patients (10.7% of the cycles). Febrile neutropenia and neutropenic infection occurred respectively in 12.1% and 3.4% of patients when patients received prophylactic G-CSF, in 15.6% and 12.9% of patients without prophylactic G-CSF (see section 4.2).

**Tabulated list of adverse reactions in head and neck cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil**

- Induction chemotherapy followed by radiotherapy (TAX 323)

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 6.3%); Neutropenic infection</td>
<td>Cancer pain (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Neutropenia (G3/4: 76.3%); Anaemia (G3/4: 9.2%); Thrombocytopenia (G3/4: 5.2%)</td>
<td>Febrile neutropenia</td>
<td></td>
</tr>
</tbody>
</table>
## MedDRA system organ classes

<table>
<thead>
<tr>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Immune system disorders</strong></td>
<td>Hypersensitivity (no severe)</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia/Parosmia; Peripheral sensory neuropathy (G3/4: 0.6%)</td>
<td>Dizziness</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased; Conjunctivitis</td>
<td></td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td>Hearing impaired</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Myocardial ischemia (G3/4:1.7%)</td>
<td>Arrhythmia (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Venous disorder (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 0.6%); Stomatitis (G3/4: 4.0%); Diarrhoea (G3/4: 2.9%); Vomiting (G3/4: 0.6%)</td>
<td>Constipation; Esophagitis/dysphagia/odynophagia (G3/4: 0.6%); Abdominal pain; Dyspepsia; Gastrointestinal haemorrhage (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 10.9%)</td>
<td>Rash pruritic; Dry skin; Skin exfoliative (G3/4: 0.6%)</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 3.4%); Pyrexia (G3/4: 0.6%); Fluid retention; Oedema</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight increased</td>
<td></td>
</tr>
</tbody>
</table>

- Induction chemotherapy followed by chemoradiotherapy (TAX 324)

## MedDRA system organ classes

<table>
<thead>
<tr>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 3.6%)</td>
<td>Neutropenic infection</td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Cancer pain (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 83.5%); Anaemia (G3/4: 12.4%); Thrombocytopenia (G3/4: 4.0%); Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td>Hypersensitivity</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 12.0%)</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia/Parosmia (G3/4: 0.4%); Peripheral sensory neuropathy (G3/4: 1.2%)</td>
<td>Dizziness (G3/4: 2.0%); Peripheral motor neuropathy (G3/4: 0.4%)</td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td>Lacrimation increased</td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td>Hearing impaired (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Arrhythmia (G3/4: 2.0%)</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td>Venous disorder</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 13.9%); Stomatitis (G3/4: 20.7%); Vomiting (G3/4: 8.4%); Diarrhoea (G3/4: 6.8%); Esophagitis/dysphagia/odynophagia (G3/4: 12.0%); Constipation (G3/4: 0.4%)</td>
<td>Dyspepsia (G3/4: 0.8%); Gastrointestinal pain (G3/4: 1.2%); Gastrointestinal haemorrhage (G3/4: 0.4%)</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 4.0%); Rash pruritic</td>
<td>Dry skin ; Desquamation</td>
</tr>
<tr>
<td>Musculoskeletal, connective tissue bone disorders</td>
<td></td>
<td>Myalgia (G3/4: 0.4%)</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight decreased</td>
<td>Weight increased</td>
</tr>
</tbody>
</table>

Post-marketing experience

*Neoplasms benign, malignant and unspecified (incl cysts and polyps)*
Cases of acute myeloid leukaemia and myelodysplastic syndrome have been reported in association with docetaxel when used in combination with other chemotherapy agents and/or radiotherapy.

*Blood and lymphatic system disorders*
Bone marrow suppression and other haematologic adverse reactions have been reported. Disseminated intravascular coagulation (DIC), often in association with sepsis or multiorgan failure, has been reported.

**Immune system disorders**
Some cases of anaphylactic shock, sometimes fatal, have been reported.

**Nervous system disorders**
Rare cases of convulsion or transient loss of consciousness have been observed with docetaxel administration. These reactions sometimes appear during the infusion of the medicinal product.

**Eye disorders**
Very rare cases of transient visual disturbances (flashes, flashing lights, scotomata) typically occurring during infusion of the medicinal product and in association with hypersensitivity reactions have been reported. These were reversible upon discontinuation of the infusion. Cases of lacrimation with or without conjunctivitis, as cases of lacrimal duct obstruction resulting in excessive tearing have been rarely reported. Cases of cystoid macular oedema (CMO) have been reported in patients treated with docetaxel.

**Ear and labyrinth disorders**
Rare cases of ototoxicity, hearing impaired and/or hearing loss have been reported.

**Cardiac disorders**
Rare cases of myocardial infarction have been reported.
Ventricular arrhythmia including ventricular tachycardia (frequency not known), sometimes fatal, has been reported in patients treated with docetaxel in combination regimens including doxorubicin, 5-fluorouracil and/or cyclophosphamide.

**Vascular disorders**
Venous thromboembolic events have rarely been reported.

**Respiratory, thoracic and mediastinal disorders**
Acute respiratory distress syndrome and cases of interstitial pneumonia/ pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure sometimes fatal have rarely been reported. Rare cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.

**Gastrointestinal disorders**
Rare occurrences of dehydration as a consequence of gastrointestinal events, gastrointestinal perforation, colitis ischaemic, colitis and neutropenic enterocolitis have been reported. Rare cases of ileus and intestinal obstruction have been reported.

**Hepatobiliary disorders**
Very rare cases of hepatitis, sometimes fatal primarily in patients with pre-existing liver disorders, have been reported.

**Skin and subcutaneous tissue disorders**
Very rare cases of cutaneous lupus erythematosus and bullous eruptions such as erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis, have been reported with docetaxel. In some cases concomitant factors may have contributed to the development of these effects. Sclerodermal-like changes usually preceded by peripheral lymphoedema have been reported with docetaxel. Cases of permanent alopecia (frequency not known) have been reported.

**Renal and urinary disorders**
Renal insufficiency and renal failure have been reported. In about 20% of these cases there were no risk factors for acute renal failure such as concomitant nephrotoxic medicinal products and gastrointestinal disorders.
**General disorders and administration site conditions**
Radiation recall phenomena have rarely been reported. Fluid retention has not been accompanied by acute episodes of oliguria or hypotension. Dehydration and pulmonary oedema have rarely been reported.

**Metabolism and nutrition disorders**
Cases of electrolyte imbalance have been reported. Cases of hyponatraemia have been reported, mostly associated with dehydration, vomiting and pneumonia. Hypokalaemia, hypomagnesaemia, and hypocalcaemia were observed, usually in association with gastrointestinal disorders and in particular with diarrhoea.

**Reporting of suspected adverse reactions**
Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

4.9 **Overdose**

There were a few reports of overdose. There is no known antidote for docetaxel overdose. In case of overdose, the patient should be kept in a specialised unit and vital functions closely monitored. In cases of overdose, exacerbation of adverse events may be expected. The primary anticipated complications of overdose would consist of bone marrow suppression, peripheral neurotoxicity and mucositis. Patients should receive therapeutic G-CSF as soon as possible after discovery of overdose. Other appropriate symptomatic measures should be taken, as needed.

5. **PHARMACOLOGICAL PROPERTIES**

5.1 **Pharmacodynamic properties**

Pharmacotherapeutic group: Taxanes, ATC Code: L01CD02

**Mechanism of action**

Docetaxel is an antineoplastic agent which acts by promoting the assembly of tubulin into stable microtubules and inhibits their disassembly which leads to a marked decrease of free tubulin. The binding of docetaxel to microtubules does not alter the number of protofilaments.

Docetaxel has been shown in vitro to disrupt the microtubular network in cells which is essential for vital mitotic and interphase cellular functions.

**Pharmacodynamic effects**

Docetaxel was found to be cytotoxic in vitro against various murine and human tumour cell lines and against freshly excised human tumour cells in clonogenic assays. Docetaxel achieves high intracellular concentrations with a long cell residence time. In addition, docetaxel was found to be active on some but not all cell lines over expressing the p-glycoprotein which is encoded by the multidrug resistance gene. In vivo, docetaxel is schedule independent and has a broad spectrum of experimental antitumour activity against advanced murine and human grafted tumours.

**Clinical efficacy and safety**

**Breast cancer**

*TAXOTERE in combination with doxorubicin and cyclophosphamide: adjuvant therapy*
Patients with operable node-positive breast cancer (TAX 316)

Data from a multicenter open label randomized study support the use of docetaxel for the adjuvant treatment of patients with operable node-positive breast cancer and KPS ≥ 80%, between 18 and 70 years of age. After stratification according to the number of positive lymph nodes (1-3, 4+), 1491 patients were randomized to receive either docetaxel 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² (TAC arm), or doxorubicin 50 mg/m² followed by fluorouracil 500 mg/m² and cyclophosphamide 500 mg/m² (FAC arm). Both regimens were administered once every 3 weeks for 6 cycles. Docetaxel was administered as a 1-hour infusion, all other medicinal products were given as intravenous bolus on day one. G-CSF was administered as secondary prophylaxis to patients who experienced complicated neutropenia (febrile neutropenia, prolonged neutropenia, or infection). Patients on the TAC arm received antibiotic prophylaxis with ciprofloxacin 500 mg orally twice daily for 10 days starting on day 5 of each cycle, or equivalent. In both arms, after the last cycle of chemotherapy, patients with positive estrogen and/or progesterone receptors received tamoxifen 20 mg daily for up to 5 years. Adjuvant radiation therapy was prescribed according to guidelines in place at participating institutions and was given to 69% of patients who received TAC and 72% of patients who received FAC. Two interim analyses and one final analysis were performed. The first interim analysis was planned 3 years after the date when half of study enrollment was done. The second interim analysis was done after 400 DFS events had been recorded overall, which led to a median follow-up of 55 months. The final analysis was performed when all patients had reached their 10-year follow-up visit (unless they had a DFS event or were lost to follow-up before). Disease-free survival (DFS) was the primary efficacy endpoint and Overall survival (OS) was the secondary efficacy endpoint.

A final analysis was performed with an actual median follow up of 96 months. Significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. Incidence of relapses at 10 years was reduced in patients receiving TAC compared to those who received FAC (39% versus 45%, respectively) i.e. an absolute risk reduction by 6% (p = 0.0043). Overall survival at 10 years was also significantly increased with TAC compared to FAC (76% versus 69%, respectively) i.e. an absolute reduction of the risk of death by 7% (p = 0.002). As the benefit observed in patients with 4+ nodes was not statistically significant on DFS and OS, the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis.

Overall, the study results demonstrate a positive benefit risk ratio for TAC compared to FAC.

TAC-treated patient subsets according to prospectively defined major prognostic factors were analyzed:

<table>
<thead>
<tr>
<th>Patient subset</th>
<th>Number of patients</th>
<th>Disease free survival</th>
<th>Overall survival</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Hazard ratio*</td>
<td>95% CI</td>
</tr>
<tr>
<td>No of positive nodes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall</td>
<td>745</td>
<td>0.80</td>
<td>0.68-0.93</td>
</tr>
<tr>
<td>1-3</td>
<td>467</td>
<td>0.72</td>
<td>0.58-0.91</td>
</tr>
<tr>
<td>4+</td>
<td>278</td>
<td>0.87</td>
<td>0.70-1.09</td>
</tr>
</tbody>
</table>

*a hazard ratio of less than 1 indicates that TAC is associated with a longer disease-free survival and overall survival compared to FAC

Patients with operable node-negative breast cancer eligible to receive chemotherapy (GEICAM 9805)

Data from a multicenter open label randomized trial support the use of TAXOTERE for the adjuvant treatment of patients with operable node-negative breast cancer eligible to receive chemotherapy. 1060 patients were randomized to receive either TAXOTERE 75 mg/m² administered 1-hour after
doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² (539 patients in TAC arm), or doxorubicin 50 mg/m² followed by fluorouracil 500 mg/m² and cyclophosphamide 500 mg/m² (521 patients in FAC arm), as adjuvant treatment of operable node-negative breast cancer patients with high risk of relapse according to 1998 St. Gallen criteria (tumour size >2 cm and/or negative ER and PR and/or high histological/nuclear grade (grade 2 to 3) and/or age <35 years). Both regimens were administered once every 3 weeks for 6 cycles. TAXOTERE was administered as a 1-hour infusion, all other medicinal products were given intravenously on day 1 every three weeks. Primary prophylactic G-CSF was made mandatory in TAC arm after 230 patients were randomized. The incidence of Grade 4 neutropenia, febrile neutropenia and neutropenic infection was decreased in patients who received primary G-CSF prophylaxis (see section 4.8). In both arms, after the last cycle of chemotherapy, patients with ER+ and/or PgR+ tumours received tamoxifen 20 mg once a day for up to 5 years. Adjuvant radiation therapy was administered according to guidelines in place at participating institutions and was given to 57.3% of patients who received TAC and 51.2% of patients who received FAC.

One primary analysis and one updated analysis were performed. The primary analysis was done when all patients had a follow-up of greater than 5 years (median follow-up time of 77 months). The updated analysis was performed when all patients had reached their 10-year (median follow up time of 10 years and 5 months) follow-up visit (unless they had a DFS event or were lost to follow-up previously). Disease-free survival (DFS) was the primary efficacy endpoint and Overall survival (OS) was the secondary efficacy endpoint.

At the median follow-up time of 77 months, significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. TAC-treated patients had a 32% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.68, 95% CI (0.49-0.93), p = 0.01). At the median follow up time of 10 years and 5 months, TAC-treated patients had a 16.5% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.84, 95% CI (0.65-1.08), p=0.1646). DFS data were not statistically significant but were still associated with a positive trend in favour of TAC.

At the median follow-up time of 77 months, overall survival (OS) was longer in the TAC arm with TAC-treated patients having a 24% reduction in the risk of death compared to FAC (hazard ratio = 0.76, 95% CI (0.46-1.26, p = 0.29). However, the distribution of OS was not significantly different between the 2 groups. At the median follow up time of 10 years and 5 months, TAC-treated patients had a 9% reduction in the risk of death compared to FAC-treated patients (hazard ratio = 0.91, 95% CI (0.63-1.32)). The survival rate was 93.7% in the TAC arm and 91.4 % in the FAC arm, at the 8-year follow-up timepoint, and 91.3 % in the TAC arm and 89 % in the FAC arm, at the 10-year follow-up timepoint.

The positive benefit risk ratio for TAC compared to FAC remained unchanged.

TAC-treated patient subsets according to prospectively defined major prognostic factors were analyzed in the primary analysis (at the median follow-up time of 77 months) (see table below):
**Subset Analyses-Adjuvant Therapy in Patients with Node-negative Breast Cancer Study (Intent-to-Treat Analysis)**

<table>
<thead>
<tr>
<th>Patient subset</th>
<th>Number of patients in TAC group</th>
<th>Disease Free Survival</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Hazard ratio*</td>
</tr>
<tr>
<td>Overall</td>
<td>539</td>
<td>0.68</td>
</tr>
<tr>
<td><strong>Age category 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;50 years</td>
<td>260</td>
<td>0.67</td>
</tr>
<tr>
<td>≥50 years</td>
<td>279</td>
<td>0.67</td>
</tr>
<tr>
<td><strong>Age category 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;35 years</td>
<td>42</td>
<td>0.31</td>
</tr>
<tr>
<td>≥35 years</td>
<td>497</td>
<td>0.73</td>
</tr>
<tr>
<td><strong>Hormonal receptor status</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Negative</td>
<td>195</td>
<td>0.7</td>
</tr>
<tr>
<td>Positive</td>
<td>344</td>
<td>0.62</td>
</tr>
<tr>
<td><strong>Tumour size</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≤2 cm</td>
<td>285</td>
<td>0.69</td>
</tr>
<tr>
<td>&gt;2 cm</td>
<td>254</td>
<td>0.68</td>
</tr>
<tr>
<td><strong>Histological grade</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade 1 (includes grade not assessed)</td>
<td>64</td>
<td>0.79</td>
</tr>
<tr>
<td>Grade 2</td>
<td>216</td>
<td>0.77</td>
</tr>
<tr>
<td>Grade 3</td>
<td>259</td>
<td>0.59</td>
</tr>
<tr>
<td><strong>Menopausal status</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Menopausal</td>
<td>285</td>
<td>0.64</td>
</tr>
<tr>
<td>Post-Menopausal</td>
<td>254</td>
<td>0.72</td>
</tr>
</tbody>
</table>

* a hazard ratio (TAC/FAC) of less than 1 indicates that TAC is associated with a longer disease free survival compared to FAC.

**Exploratory subgroup analyses for disease-free survival for patients who meet the 2009 St. Gallen chemotherapy criteria – (ITT population) were performed and presented here below:**

<table>
<thead>
<tr>
<th>Subgroups</th>
<th>TAC (n=539)</th>
<th>FAC (n=521)</th>
<th>Hazard ratio (TAC/FAC) (95% CI)</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting relative indication for chemotherapy *</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>18/214 (8.4%)</td>
<td>26/227 (11.5%)</td>
<td>0.796 (0.434 - 1.459)</td>
<td>0.4593</td>
</tr>
<tr>
<td>Yes</td>
<td>48/325 (14.8%)</td>
<td>69/294 (23.5%)</td>
<td>0.606 (0.42 - 0.877)</td>
<td>0.0072</td>
</tr>
</tbody>
</table>

TAC = docetaxel, doxorubicin and cyclophosphamide
FAC = 5-fluorouracil, doxorubicin and cyclophosphamide
CI = confidence interval
ER = estrogen receptor
PR = progesterone receptor

* ER/PR-negative or Grade 3 or tumor size >5 cm

The estimated hazard ratio was using Cox proportional hazard model with treatment group as the factor.
TAXOTERE as single agent

Two randomised phase III comparative studies, involving a total of 326 alkylating or 392 anthracycline failure metastatic breast cancer patients, have been performed with docetaxel at the recommended dose and regimen of 100 mg/m² every 3 weeks.

In alkylating-failure patients, docetaxel was compared to doxorubicin (75 mg/m² every 3 weeks). Without affecting overall survival time (docetaxel 15 months vs. doxorubicin 14 months, p = 0.38) or time to progression (docetaxel 27 weeks vs. doxorubicin 23 weeks, p = 0.54), docetaxel increased response rate (52% vs. 37%, p = 0.01) and shortened time to response (12 weeks vs. 23 weeks, p = 0.007). Three docetaxel patients (2%) discontinued the treatment due to fluid retention, whereas 15 doxorubicin patients (9%) discontinued due to cardiac toxicity (three cases of fatal congestive heart failure).

In anthracycline-failure patients, docetaxel was compared to the combination of mitomycin C and vinblastine (12 mg/m² every 6 weeks and 6 mg/m² every 3 weeks). Docetaxel increased response rate (33% vs. 12%, p < 0.0001), prolonged time to progression (19 weeks vs. 11 weeks, p = 0.0004) and prolonged overall survival (11 months vs. 9 months, p = 0.01).

During these two phase III studies, the safety profile of docetaxel was consistent with the safety profile observed in phase II studies (see section 4.8).

An open-label, multicenter, randomized phase III study was conducted to compare docetaxel monotherapy and paclitaxel in the treatment of advanced breast cancer in patients whose previous therapy should have included an anthracycline. A total of 449 patients were randomized to receive either docetaxel monotherapy 100 mg/m² as a 1 hour infusion or paclitaxel 175 mg/m² as a 3 hour infusion. Both regimens were administered every 3 weeks. Without affecting the primary endpoint, overall response rate (32% vs 25%, p = 0.10), docetaxel prolonged median time to progression (24.6 weeks vs 15.6 weeks; p < 0.01) and median survival (15.3 months vs 12.7 months; p = 0.03).

More grade 3/4 adverse events were observed for docetaxel monotherapy (55.4%) compared to paclitaxel (23.0%).

TAXOTERE in combination with doxorubicin

One large randomized phase III study, involving 429 previously untreated patients with metastatic disease, has been performed with doxorubicin (50 mg/m²) in combination with docetaxel (75 mg/m²) (AT arm) versus doxorubicin (60 mg/m²) in combination with cyclophosphamide (600 mg/m²) (AC arm). Both regimens were administered on day 1 every 3 weeks.

- Time to progression (TTP) was significantly longer in the AT arm versus AC arm, p = 0.0138. The median TTP was 37.3 weeks (95% CI: 33.4 - 42.1) in AT arm and 31.9 weeks (95% CI: 27.4 - 36.0) in AC arm.
- Overall response rate (ORR) was significantly higher in the AT arm versus AC arm, p = 0.009. The ORR was 59.3% (95% CI: 52.8 - 65.9) in AT arm versus 46.5% (95% CI: 39.8 - 53.2) in AC arm.

In this study, AT arm showed a higher incidence of severe neutropenia (90% versus 68.6%), febrile neutropenia (33.3% versus 10%), infection (8% versus 2.4%), diarrhoea (7.5% versus 1.4%), asthenia (8.5% versus 2.4%), and pain (2.8% versus 0%) than AC arm. On the other hand, AC arm showed a higher incidence of severe anaemia (15.8% versus 8.5%) than AT arm, and, in addition, a higher incidence of severe cardiac toxicity: congestive heart failure (3.8% versus 2.8%), absolute LVEF decrease ≥ 20% (13.1% versus 6.1%), absolute LVEF decrease ≥ 30% (6.2% versus 1.1%). Toxic deaths occurred in 1 patient in the AT arm (congestive heart failure) and in 4 patients in the AC arm (1 due to septic shock and 3 due to congestive heart failure).

In both arms, quality of life measured by the EORTC questionnaire was comparable and stable during treatment and follow-up.
TAXOTERE in combination with trastuzumab

Docetaxel in combination with trastuzumab was studied for the treatment of patients with metastatic breast cancer whose tumours overexpress HER2, and who previously had not received chemotherapy for metastatic disease. One hundred eighty six patients were randomized to receive docetaxel (100 mg/m²) with or without trastuzumab; 60% of patients received prior anthracycline-based adjuvant chemotherapy. Docetaxel plus trastuzumab was efficacious in patients whether or not they had received prior adjuvant anthracyclines. The main test method used to determine HER2 positivity in this pivotal study was immunohistochemistry (IHC). A minority of patients were tested using fluorescence in-situ hybridization (FISH). In this study, 87% of patients had disease that was IHC 3+, and 95% of patients entered had disease that was IHC 3+ and/or FISH positive. Efficacy results are summarized in the following table:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Docetaxel plus trastuzumab naïve</th>
<th>Docetaxel naïve</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n = 92</td>
<td>n = 94</td>
</tr>
<tr>
<td>Response rate (95% CI)</td>
<td>61% (50-71)</td>
<td>34% (25-45)</td>
</tr>
<tr>
<td>Median duration of response (months) (95% CI)</td>
<td>11.4 (9.2-15.0)</td>
<td>5.1 (4.4-6.2)</td>
</tr>
<tr>
<td>Median TTP (months) (95% CI)</td>
<td>10.6 (7.6-12.9)</td>
<td>5.7 (5.0-6.5)</td>
</tr>
<tr>
<td>Median survival (months) (95% CI)</td>
<td>30.5 (26.8-nc)</td>
<td>22.1 (17.6-28.9)</td>
</tr>
</tbody>
</table>

TTP = time to progression; “ne” indicates that it could not be estimated or it was not yet reached.

1 Full analysis set (intent-to-treat)

2 Estimated median survival

TAXOTERE in combination with capecitabine

Data from one multicenter, randomised, controlled phase III clinical study support the use of docetaxel in combination with capecitabine for treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy, including an anthracycline. In this study, 255 patients were randomised to treatment with docetaxel (75 mg/m² as a 1 hour intravenous infusion every 3 weeks) and capecitabine (1250 mg/m² twice daily for 2 weeks followed by 1-week rest period). 256 patients were randomised to treatment with docetaxel alone (100 mg/m² as a 1 hour intravenous infusion every 3 weeks). Survival was superior in the docetaxel + capecitabine combination arm (p = 0.0126). Median survival was 442 days (docetaxel + capecitabine) vs. 352 days (docetaxel alone). The overall objective response rates in the all-randomised population (investigator assessment) were 41.6% (docetaxel + capecitabine) vs. 29.7% (docetaxel alone); p = 0.0058. Time to progressive disease was superior in the docetaxel + capecitabine combination arm (p < 0.0001). The median time to progression was 186 days (docetaxel + capecitabine) vs. 128 days (docetaxel alone).

Non-small cell lung cancer

Patients previously treated with chemotherapy with or without radiotherapy

In a phase III study, in previously treated patients, time to progression (12.3 weeks versus 7 weeks) and overall survival were significantly longer for docetaxel at 75 mg/m² compared to Best Supportive Care. The 1-year survival rate was also significantly longer in docetaxel (40%) versus BSC (16%). There was less use of morphin and analgesic (p < 0.01), non-morphin analgesics (p < 0.01), other disease-related medicinal products (p = 0.06) and radiotherapy (p < 0.01) in patients treated with docetaxel at 75 mg/m² compared to those with BSC.

The overall response rate was 6.8% in the evaluable patients, and the median duration of response was 26.1 weeks.
TAXOTERE in combination with platinum agents in chemotherapy-naïve patients

In a phase III study, 1218 patients with unresectable stage IIIB or IV NSCLC, with KPS of 70% or greater, and who did not receive previous chemotherapy for this condition, were randomised to either docetaxel (T) 75 mg/m² as a 1 hour infusion immediately followed by cisplatin (Cis) 75 mg/m² over 30-60 minutes every 3 weeks (TCis), docetaxel 75 mg/m² as a 1 hour infusion in combination with carboplatin (AUC 6 mg/ml.min) over 30-60 minutes every 3 weeks, or vinorelbine (V) 25 mg/m² administered over 6-10 minutes on days 1, 8, 15, 22 followed by cisplatin 100 mg/m² administered on day 1 of cycles repeated every 4 weeks (VCis).

Survival data, median time to progression and response rates for two arms of the study are illustrated in the following table:

<table>
<thead>
<tr>
<th></th>
<th>TCis n = 408</th>
<th>VCis n = 404</th>
<th>Statistical analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall survival</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Primary end-point):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>11.3</td>
<td>10.1</td>
<td>Hazard Ratio: 1.122</td>
</tr>
<tr>
<td>1-year Survival (%)</td>
<td>46</td>
<td>41</td>
<td>Treatment difference: 5.4%</td>
</tr>
<tr>
<td>2-year Survival (%)</td>
<td>21</td>
<td>14</td>
<td>Treatment difference: 6.2%</td>
</tr>
<tr>
<td>Median time to progression (weeks):</td>
<td>22.0</td>
<td>23.0</td>
<td>Hazard Ratio: 1.032</td>
</tr>
<tr>
<td>Overall response rate (%):</td>
<td>31.6</td>
<td>24.5</td>
<td>Treatment difference: 7.1%</td>
</tr>
</tbody>
</table>

*: Corrected for multiple comparisons and adjusted for stratification factors (stage of disease and region of treatment), based on evaluable patient population.

Secondary end-points included change of pain, global rating of quality of life by EuroQoL-5D, Lung Cancer Symptom Scale, and changes in Karnofsky performance status. Results on these end-points were supportive of the primary end-points results.

For docetaxel/carboplatin combination, neither equivalent nor non-inferior efficacy could be proven compared to the reference treatment combination VCis.

Prostate cancer

The safety and efficacy of docetaxel in combination with prednisone or prednisolone in patients with hormone refractory metastatic prostate cancer were evaluated in a randomized multicenter phase III study. A total of 1006 patients with KPS ≥ 60 were randomized to the following treatment groups:

- Docetaxel 75 mg/m² every 3 weeks for 10 cycles.
- Docetaxel 30 mg/m² administered weekly for the first 5 weeks in a 6 week cycle for 5 cycles.
- Mitoxantrone 12 mg/m² every 3 weeks for 10 cycles.

All 3 regimens were administered in combination with prednisone or prednisolone 5 mg twice daily, continuously.

Patients who received docetaxel every three weeks demonstrated significantly longer overall survival compared to those treated with mitoxantrone. The increase in survival seen in the docetaxel weekly arm was not statistically significant compared to the mitoxantrone control arm. Efficacy endpoints for the docetaxel arms versus the control arm are summarized in the following table:
Given the fact that docetaxel every week presented a slightly better safety profile than docetaxel every 3 weeks, it is possible that certain patients may benefit from docetaxel every week.

No statistical differences were observed between treatment groups for Global Quality of Life.

**Gastric adenocarcinoma**

A multicenter, open-label, randomized study was conducted to evaluate the safety and efficacy of docetaxel for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction, who had not received prior chemotherapy for metastatic disease. A total of 445 patients with KPS > 70 were treated with either docetaxel (T) (75 mg/m² on day 1) in combination with cisplatin (C) (75 mg/m² on day 1) and 5-fluorouracil (F) (750 mg/m² per day for 5 days) or cisplatin (100 mg/m² on day 1) and 5-fluorouracil (1000 mg/m² per day for 5 days). The length of a treatment cycle was 3 weeks for the TCF arm and 4 weeks for the CF arm. The median number of cycles administered per patient was 6 (with a range of 1-16) for the TCF arm compared to 4 (with a range of 1-12) for the CF arm. Time to progression (TTP) was the primary endpoint. The risk reduction of progression was 32.1% and was associated with a significantly longer TTP (p = 0.0004) in favor of the TCF arm. Overall survival was also significantly longer (p = 0.0201) in favor of the TCF arm with a risk reduction of mortality of 22.7%. Efficacy results are summarized in the following table:

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel every 3 weeks</th>
<th>Docetaxel every week</th>
<th>Mitoxantrone every 3 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of patients</td>
<td>335</td>
<td>334</td>
<td>337</td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>18.9</td>
<td>17.4</td>
<td>16.5</td>
</tr>
<tr>
<td>95% CI</td>
<td>(17.0-21.2)</td>
<td>(15.7-19.0)</td>
<td>(14.4-18.6)</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>0.761</td>
<td>0.912</td>
<td>--</td>
</tr>
<tr>
<td>95% CI</td>
<td>(0.619-0.936)</td>
<td>(0.747-1.113)</td>
<td>--</td>
</tr>
<tr>
<td>p-value *</td>
<td>0.0094</td>
<td>0.3624</td>
<td>--</td>
</tr>
<tr>
<td>Number of patients</td>
<td>291</td>
<td>282</td>
<td>300</td>
</tr>
<tr>
<td>PSA** response rate (%)</td>
<td>45.4</td>
<td>47.9</td>
<td>31.7</td>
</tr>
<tr>
<td>95% CI</td>
<td>(39.5-51.3)</td>
<td>(41.9-53.9)</td>
<td>(26.4-37.3)</td>
</tr>
<tr>
<td>p-value *</td>
<td>0.0005</td>
<td>&lt;0.0001</td>
<td>--</td>
</tr>
<tr>
<td>Number of patients</td>
<td>153</td>
<td>154</td>
<td>157</td>
</tr>
<tr>
<td>Pain response rate (%)</td>
<td>34.6</td>
<td>31.2</td>
<td>21.7</td>
</tr>
<tr>
<td>95% CI</td>
<td>(27.1-42.7)</td>
<td>(24.0-39.1)</td>
<td>(15.5-28.9)</td>
</tr>
<tr>
<td>p-value *</td>
<td>0.0107</td>
<td>0.0798</td>
<td>--</td>
</tr>
<tr>
<td>Number of patients</td>
<td>141</td>
<td>134</td>
<td>137</td>
</tr>
<tr>
<td>Tumour response rate (%)</td>
<td>12.1</td>
<td>8.2</td>
<td>6.6</td>
</tr>
<tr>
<td>95% CI</td>
<td>(7.2-18.6)</td>
<td>(4.2-14.2)</td>
<td>(3.0-12.1)</td>
</tr>
<tr>
<td>p-value *</td>
<td>0.1112</td>
<td>0.5853</td>
<td>--</td>
</tr>
</tbody>
</table>

*Stratified log rank test

*Threshold for statistical significance = 0.0175

**PSA: Prostate-Specific Antigen
Efficacy of docetaxel in the treatment of patients with gastric adenocarcinoma

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>TCF n = 221</th>
<th>CF n = 224</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median TTP (months)</td>
<td>5.6</td>
<td>3.7</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(4.86-5.91)</td>
<td>(3.45-4.47)</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>1.473</td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(1.189-1.825)</td>
<td></td>
</tr>
<tr>
<td>*p-value</td>
<td>0.0004</td>
<td></td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>9.2</td>
<td>8.6</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(8.38-10.58)</td>
<td>(7.16-9.46)</td>
</tr>
<tr>
<td>2-year estimate (%)</td>
<td>18.4</td>
<td>8.8</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>1.293</td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(1.041-1.606)</td>
<td></td>
</tr>
<tr>
<td>*p-value</td>
<td>0.0201</td>
<td></td>
</tr>
<tr>
<td>Overall response rate (CR+PR) (%)</td>
<td>36.7</td>
<td>25.4</td>
</tr>
<tr>
<td>p-value</td>
<td>0.0106</td>
<td></td>
</tr>
<tr>
<td>Progressive disease as best overall response (%)</td>
<td>16.7</td>
<td>25.9</td>
</tr>
</tbody>
</table>

*Unstratified logrank test

Subgroup analyses across age, gender and race consistently favored the TCF arm compared to the CF arm.

A survival update analysis conducted with a median follow-up time of 41.6 months no longer showed a statistically significant difference although always in favour of the TCF regimen and showed that the benefit of TCF over CF is clearly observed between 18 and 30 months of follow up.

Overall, quality of life (QoL) and clinical benefit results consistently indicated improvement in favor of the TCF arm. Patients treated with TCF had a longer time to 5% definitive deterioration of global health status on the QLQ-C30 questionnaire (p = 0.0121) and a longer time to definitive worsening of Karnofsky performance status (p = 0.0088) compared to patients treated with CF.

**Head and neck cancer**

- Induction chemotherapy followed by radiotherapy (TAX323)
  
The safety and efficacy of docetaxel in the induction treatment of patients with squamous cell carcinoma of the head and neck (SCCHN) was evaluated in a phase III, multicenter, open-label, randomized study (TAX323). In this study, 358 patients with inoperable locally advanced SCCHN, and WHO performance status 0 or 1, were randomized to one of two treatment arms. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² followed by cisplatin (P) 75 mg/m² followed by 5-fluorouracil (F) 750 mg/m² per day as a continuous infusion for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (≥ 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks and a maximal interval of 7 weeks, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines for 7 weeks (TPF/RT). Patients on the comparator arm received cisplatin (P) 100 mg/m² followed by 5-fluorouracil (F) 1000 mg/m² per day for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (≥ 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks and a maximal interval of 7 weeks, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines for 7 weeks (PF/RT). Locoregional therapy with radiation was delivered either with a conventional fraction (1.8 Gy - 2.0 Gy once a day, 5 days per week for a total dose of 66 to 70 Gy), or accelerated/hyperfractionated regimens of radiation therapy (twice a day, with a minimum interfraction interval of 6 hours, 5 days per week). A total of 70 Gy was recommended for accelerated regimens and 74 Gy for hyperfractionated schemes. Surgical resection was allowed following chemotherapy, before or after radiotherapy. Patients on the TPF arm received antibiotic prophylaxis with ciprofloxacin 500 mg orally twice daily for 10 days starting on day 5 of each cycle, or equivalent.
The primary endpoint in this study, progression-free survival (PFS), was significantly longer in the TPF arm compared to the PF arm, \( p = 0.0042 \) (median PFS: 11.4 vs. 8.3 months respectively) with an overall median follow up time of 33.7 months. Median overall survival was also significantly longer in favor of the TPF arm compared to the PF arm (median OS: 18.6 vs. 14.5 months respectively) with a 28% risk reduction of mortality, \( p = 0.0128 \). Efficacy results are presented in the table below:

### Efficacy of docetaxel in the induction treatment of patients with inoperable locally advanced SCCHN (Intent-to-Treat Analysis)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel + Cis + 5-FU</th>
<th>Cis + 5-FU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median progression free survival (months)</td>
<td>11.4 (10.1-14.0)</td>
<td>8.3 (7.4-9.1)</td>
</tr>
<tr>
<td>(95% CI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adjusted hazard ratio</td>
<td>0.70</td>
<td>(0.55-0.89)</td>
</tr>
<tr>
<td>(95% CI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*p-value</td>
<td>0.0042</td>
<td></td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>18.6 (15.7-24.0)</td>
<td>14.5 (11.6-18.7)</td>
</tr>
<tr>
<td>(95% CI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>0.72</td>
<td>(0.56-0.93)</td>
</tr>
<tr>
<td>(95% CI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>**p-value</td>
<td>0.0128</td>
<td></td>
</tr>
<tr>
<td>Best overall response to chemotherapy (%)</td>
<td>67.8 (60.4-74.6)</td>
<td>53.6 (46.0-61.0)</td>
</tr>
<tr>
<td>(95% CI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>***p-value</td>
<td>0.006</td>
<td></td>
</tr>
<tr>
<td>Best overall response to study treatment [chemotherapy +/- radiotherapy] (%)</td>
<td>72.3 (65.1-78.8)</td>
<td>58.6 (51.0-65.8)</td>
</tr>
<tr>
<td>(95% CI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>***p-value</td>
<td>0.006</td>
<td></td>
</tr>
<tr>
<td>Median duration of response to chemotherapy ± radiotherapy (months)</td>
<td>n = 128 15.7 (13.4-24.6)</td>
<td>n = 106 11.7 (10.2-17.4)</td>
</tr>
<tr>
<td>(95% CI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>0.72</td>
<td>(0.52-0.99)</td>
</tr>
<tr>
<td>(95% CI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>**p-value</td>
<td>0.0457</td>
<td></td>
</tr>
</tbody>
</table>

A hazard ratio of less than 1 favors docetaxel + cisplatin + 5-FU
* Cox model (adjustment for Primary tumour site, T and N clinical stages and PSWHO)
** Logrank test
*** Chi-square test

**Quality of life parameters**

Patients treated with TPF experienced significantly less deterioration of their Global health score compared to those treated with PF (\( p = 0.01 \), using the EORTC QLQ-C30 scale).

**Clinical benefit parameters**

The performance status scale, for head and neck (PSS-HN) subscales designed to measure understandability of speech, ability to eat in public, and normalcy of diet, was significantly in favor of TPF as compared to PF. Median time to first deterioration of WHO performance status was significantly longer in the TPF arm compared to PF. Pain intensity score improved during treatment in both groups indicating adequate pain management.
• Induction chemotherapy followed by chemoradiotherapy (TAX324)
The safety and efficacy of docetaxel in the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck (SCCHN) was evaluated in a randomized, multicenter open-label, phase III study (TAX324). In this study, 501 patients, with locally advanced SCCHN, and a WHO performance status of 0 or 1, were randomized to one of two arms. The study population comprised patients with technically unresectable disease, patients with low probability of surgical cure and patients aiming at organ preservation. The efficacy and safety evaluation solely addressed survival endpoints and the success of organ preservation was not formally addressed. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² by intravenous infusion on day 1 followed by cisplatin (P) 100 mg/m² administered as a 30-minute to three-hour intravenous infusion, followed by the continuous intravenous infusion of 5-fluorouracil (F) 1000 mg/m²/day from day 1 to day 4. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive chemoradiotherapy (CRT) as per protocol (TPF/CRT). Patients on the comparator arm received cisplatin (P) 100 mg/m² as a 30-minute to three-hour intravenous infusion on day 1 followed by the continuous intravenous infusion of 5-fluorouracil (F) 1000 mg/m²/day from day 1 to day 5. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive CRT as per protocol (PF/CRT).

Patients in both treatment arms were to receive 7 weeks of CRT following induction chemotherapy with a minimum interval of 3 weeks and no later than 8 weeks after start of the last cycle (day 22 to day 56 of last cycle). During radiotherapy, carboplatin (AUC 1.5) was given weekly as a one-hour intravenous infusion for a maximum of 7 doses. Radiation was delivered with megavoltage equipment using once daily fractionation (2 Gy per day, 5 days per week for 7 weeks, for a total dose of 70-72 Gy). Surgery on the primary site of disease and/or neck could be considered at anytime following completion of CRT. All patients on the docetaxel-containing arm of the study received prophylactic antibiotics. The primary efficacy endpoint in this study, overall survival (OS) was significantly longer (log-rank test, p = 0.0058) with the docetaxel-containing regimen compared to PF (median OS: 70.6 versus 30.1 months respectively), with a 30% risk reduction in mortality compared to PF (hazard ratio (HR) = 0.70, 95% confidence interval (CI) = 0.54-0.90) with an overall median follow up time of 41.9 months. The secondary endpoint, PFS, demonstrated a 29% risk reduction of progression or death and a 22 month improvement in median PFS (35.5 months for TPF and 13.1 for PF). This was also statistically significant with an HR of 0.71; 95% CI 0.56-0.90; log-rank test p = 0.004. Efficacy results are presented in the table below:
### Efficacy of docetaxel in the induction treatment of patients with locally advanced SCCHN (Intent-to-Treat Analysis)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel + Cis + 5-FU</th>
<th>Cis + 5-FU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median overall survival (months)</td>
<td>70.6 (49.0-NA)</td>
<td>30.1 (20.9-51.5)</td>
</tr>
<tr>
<td>Hazard ratio:</td>
<td>0.70</td>
<td>0.54-0.90</td>
</tr>
<tr>
<td>*p-value</td>
<td>0.0058</td>
<td></td>
</tr>
<tr>
<td>Median PFS (months)</td>
<td>35.5 (19.3-NA)</td>
<td>13.1 (10.6 - 20.2)</td>
</tr>
<tr>
<td>Hazard ratio:</td>
<td>0.71</td>
<td>0.56 - 0.90</td>
</tr>
<tr>
<td>**p-value</td>
<td>0.004</td>
<td></td>
</tr>
<tr>
<td>Best overall response (CR + PR) to chemotherapy (%)</td>
<td>71.8 (65.8-77.2)</td>
<td>64.2 (57.9-70.2)</td>
</tr>
<tr>
<td>***p-value</td>
<td>0.070</td>
<td></td>
</tr>
<tr>
<td>Best overall response (CR + PR) to study treatment [chemotherapy +/- chemoradiotherapy] (%)</td>
<td>76.5 (70.8-81.5)</td>
<td>71.5 (65.5-77.1)</td>
</tr>
<tr>
<td>(95%CI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>***p-value</td>
<td>0.209</td>
<td></td>
</tr>
</tbody>
</table>

A hazard ratio of less than 1 favors docetaxel + cisplatin + fluorouracil

*un-adjusted log-rank test

**un-adjusted log-rank test, not adjusted for multiple comparisons

***Chi square test, not adjusted for multiple comparisons

NA-not applicable

### Paediatric population

The European Medicines Agency has waived the obligation to submit the results of studies with TAXOTERE in all subsets of the paediatric population in breast cancer, non-small cell lung cancer, prostatic cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma (see section 4.2 for information on paediatric use).

### 5.2 Pharmacokinetic properties

#### Absorption

The pharmacokinetics of docetaxel have been evaluated in cancer patients after administration of 20-115 mg/m² in phase I studies. The kinetic profile of docetaxel is dose independent and consistent with a three-compartment pharmacokinetic model with half lives for the α, β and γ phases of 4 min, 36 min and 11.1 h, respectively. The late phase is due, in part, to a relatively slow efflux of docetaxel from the peripheral compartment.

#### Distribution

Following the administration of a 100 mg/m² dose given as a one-hour infusion a mean peak plasma level of 3.7 µg/ml was obtained with a corresponding AUC of 4.6 h.µg/ml. Mean values for total body clearance and steady-state volume of distribution were 21 l/h/m² and 113 l, respectively. Inter individual variation in total body clearance was approximately 50%. Docetaxel is more than 95% bound to plasma proteins.
Elimination

A study of $^{14}$C-docetaxel has been conducted in three cancer patients. Docetaxel was eliminated in both the urine and faeces following cytochrome P450-mediated oxidative metabolism of the tert-butyl ester group, within seven days, the urinary and faecal excretion accounted for about 6% and 75% of the administered radioactivity, respectively. About 80% of the radioactivity recovered in faeces is excreted during the first 48 hours as one major inactive metabolite and 3 minor inactive metabolites and very low amounts of unchanged medicinal product.

Special populations

Age and gender
A population pharmacokinetic analysis has been performed with docetaxel in 577 patients. Pharmacokinetic parameters estimated by the model were very close to those estimated from phase I studies. The pharmacokinetics of docetaxel were not altered by the age or sex of the patient.

Hepatic impairment
In a small number of patients (n = 23) with clinical chemistry data suggestive of mild to moderate liver function impairment (ALT, AST $\geq 1.5$ times the ULN associated with alkaline phosphatase $\geq 2.5$ times the ULN), total clearance was lowered by 27% on average (see section 4.2).

Fluid retention
Docetaxel clearance was not modified in patients with mild to moderate fluid retention and there are no data available in patients with severe fluid retention.

Combination therapy

Doxorubicin
When used in combination, docetaxel does not influence the clearance of doxorubicin and the plasma levels of doxorubicinol (a doxorubicin metabolite). The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their co-administration.

Capecitabine
Phase I study evaluating the effect of capecitabine on the pharmacokinetics of docetaxel and vice versa showed no effect by capecitabine on the pharmacokinetics of docetaxel (Cmax and AUC) and no effect by docetaxel on the pharmacokinetics of a relevant capecitabine metabolite 5'-DFUR.

Cisplatin
Clearance of docetaxel in combination therapy with cisplatin was similar to that observed following monotherapy. The pharmacokinetic profile of cisplatin administered shortly after docetaxel infusion is similar to that observed with cisplatin alone.

Cisplatin and 5-fluorouracil
The combined administration of docetaxel, cisplatin and 5-fluorouracil in 12 patients with solid tumours had no influence on the pharmacokinetics of each individual medicinal product.

Prednisone and dexamethasone
The effect of prednisone on the pharmacokinetics of docetaxel administered with standard dexamethasone premedication has been studied in 42 patients.

Prednisone
No effect of prednisone on the pharmacokinetics of docetaxel was observed.

5.3 Preclinical safety data

The carcinogenic potential of docetaxel has not been studied.
Docetaxel has been shown to be mutagenic in the *in vitro* micronucleus and chromosome aberration test in CHO-K1 cells and in the *in vivo* micronucleus test in the mouse. However, it did not induce mutagenicity in the Ames test or the CHO/HGPRT gene mutation assay. These results are consistent with the pharmacological activity of docetaxel.

Undesirable effects on the testis observed in rodent toxicity studies suggest that docetaxel may impair male fertility.

### 6. PHARMACEUTICAL PARTICULARS

#### 6.1 List of excipients

- Polysorbate 80
- Ethanol anhydrous
- Citric acid

#### 6.2 Incompatibilities

This medicinal product must not be mixed with other medicinal products except those mentioned in section 6.6.

#### 6.3 Shelf-life

**Unopened vial**

3 years

**After opening of the vial**

Each vial is for single use and should be used immediately after opening. If not used immediately, in-use storage times and conditions are the responsibility of the user.

**Once added to the infusion bag**

From a microbiological point of view, reconstitution/dilution must take place in controlled and aseptic conditions and the medicinal product should be used immediately. If not used immediately, in-use storage times and conditions are the responsibility of the user.

Once added as recommended into the infusion bag, the docetaxel infusion solution, if stored below 25°C, is stable for 6 hours. It should be used within 6 hours (including the one hour infusion intravenous administration).

In addition, physical and chemical in-use stability of the infusion solution prepared as recommended has been demonstrated in non-PVC bags up to 48 hours when stored between 2 to 8°C.

Docetaxel infusion solution is supersaturated, therefore may crystallize over time. If crystals appear, the solution must no longer be used and shall be discarded.

#### 6.4 Special precautions for storage

Do not store above 25°C.

Store in the original package in order to protect from light.

For storage conditions of the diluted medicinal product, see section 6.3.

#### 6.5 Nature and contents of container

7 ml clear glass (type I) vial with a magenta aluminium seal and a magenta plastic flip-off cap containing 4 ml of concentrate.
Each box contains one vial.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

TAXOTERE is an antineoplastic agent and, as with other potentially toxic compounds, caution should be exercised when handling it and preparing TAXOTERE solutions. The use of gloves is recommended.

If TAXOTERE concentrate or infusion solution should come into contact with skin, wash immediately and thoroughly with soap and water. If TAXOTERE concentrate or infusion solution should come into contact with mucous membranes, wash immediately and thoroughly with water.

Preparation for the intravenous administration

Preparation of the infusion solution

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (TAXOTERE 80 mg/4 ml concentrate for solution for infusion, which contains only 1 vial).

TAXOTERE 80 mg/4 ml concentrate for solution for infusion requires NO prior dilution with a solvent and is ready to add to the infusion solution.

Each vial is of single use and should be used immediately.

If the vials are stored under refrigeration, allow the required number of boxes of TAXOTERE concentrate for solution for infusion to stand below 25°C for 5 minutes before use.

More than one vial of TAXOTERE concentrate for solution for infusion may be necessary to obtain the required dose for the patient. Aseptically withdraw the required amount of TAXOTERE concentrate for solution for infusion using a calibrated syringe fitted with a 21G needle.

In TAXOTERE 80 mg /4 ml vial the concentration of docetaxel is 20 mg/ml. The required volume of TAXOTERE concentrate for solution for infusion must be injected via a single injection (one shot) into a 250 ml infusion bag or bottle containing either 5% glucose solution or sodium chloride 9 mg/ml (0.9%) solution for infusion.

If a dose greater than 190 mg of docetaxel is required, use a larger volume of the infusion vehicle so that a concentration of 0.74 mg/ml docetaxel is not exceeded.

Mix the infusion bag or bottle manually using a rocking motion.

The infusion bag solution should be used within 6 hours below 25°C including the one hour infusion to the patient.

As with all parenteral products, TAXOTERE infusion solution should be visually inspected prior to use, solutions containing a precipitate should be discarded.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

7. MARKETING AUTHORISATION HOLDER

Aventis Pharma S.A., 20 avenue Raymond Aron, 92165 Antony Cedex, France
8. MARKETING AUTHORISATION NUMBER

EU/1/95/002/004

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 27 November 1995
Date of latest renewal: 27 November 2005

10. DATE OF REVISION OF THE TEXT

Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.
1. **NAME OF THE MEDICINAL PRODUCT**

   TAXOTERE 160 mg/8 ml concentrate for solution for infusion.

2. **QUALITATIVE AND QUANTITATIVE COMPOSITION**

   Each ml of concentrate contains 20 mg docetaxel (as trihydrate).

   One vial of 8 ml of concentrate contains 160 mg of docetaxel.

   **Excipient with known effect:**
   Each vial of concentrate contains 4 ml of ethanol anhydrous (3.16 g).

   For the full list of excipients, see section 6.1.

3. **PHARMACEUTICAL FORM**

   Concentrate for solution for infusion (sterile concentrate).

   The concentrate is a pale yellow to brownish-yellow solution.

4. **CLINICAL PARTICULARS**

   4.1 **Therapeutic indications**

   **Breast cancer**

   TAXOTERE in combination with doxorubicin and cyclophosphamide is indicated for the adjuvant treatment of patients with:
   - operable node-positive breast cancer
   - operable node-negative breast cancer

   For patients with operable node-negative breast cancer, adjuvant treatment should be restricted to patients eligible to receive chemotherapy according to internationally established criteria for primary therapy of early breast cancer (see section 5.1).

   TAXOTERE in combination with doxorubicin is indicated for the treatment of patients with locally advanced or metastatic breast cancer who have not previously received cytotoxic therapy for this condition.

   TAXOTERE monotherapy is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic therapy. Previous chemotherapy should have included an anthracycline or an alkylating agent.

   TAXOTERE in combination with trastuzumab is indicated for the treatment of patients with metastatic breast cancer whose tumours over express HER2 and who previously have not received chemotherapy for metastatic disease.

   TAXOTERE in combination with capecitabine is indicated for the treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy. Previous therapy should have included an anthracycline.
Non-small cell lung cancer

TAXOTERE is indicated for the treatment of patients with locally advanced or metastatic non-small cell lung cancer after failure of prior chemotherapy.

TAXOTERE in combination with cisplatin is indicated for the treatment of patients with unresectable, locally advanced or metastatic non-small cell lung cancer, in patients who have not previously received chemotherapy for this condition.

Prostate cancer

TAXOTERE in combination with prednisone or prednisolone is indicated for the treatment of patients with hormone refractory metastatic prostate cancer.

Gastric adenocarcinoma

TAXOTERE in combination with cisplatin and 5-fluorouracil is indicated for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction, who have not received prior chemotherapy for metastatic disease.

Head and neck cancer

TAXOTERE in combination with cisplatin and 5-fluorouracil is indicated for the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck.

4.2 Posology and method of administration

The use of docetaxel should be confined to units specialised in the administration of cytotoxic chemotherapy and it should only be administered under the supervision of a physician qualified in the use of anticancer chemotherapy (see section 6.6).

Recommended dose

For breast, non-small cell lung, gastric, and head and neck cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day (e.g. 8 mg BID) for 3 days starting 1 day prior to docetaxel administration, unless contraindicated, can be used (see section 4.4). Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities.

For prostate cancer, given the concurrent use of prednisone or prednisolone the recommended premedication regimen is oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the docetaxel infusion (see section 4.4).

Docetaxel is administered as a one-hour infusion every three weeks.

Breast cancer

In the adjuvant treatment of operable node-positive and node-negative breast cancer, the recommended dose of docetaxel is 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² every 3 weeks for 6 cycles (TAC regimen) (see also Dose adjustments during treatment).

For the treatment of patients with locally advanced or metastatic breast cancer, the recommended dose of docetaxel is 100 mg/m² in monotherapy. In first-line treatment, docetaxel 75 mg/m² is given in combination therapy with doxorubicin (50 mg/m²).

In combination with trastuzumab the recommended dose of docetaxel is 100 mg/m² every three weeks, with trastuzumab administered weekly. In the pivotal study the initial docetaxel infusion was started the day following the first dose of trastuzumab. The subsequent docetaxel doses were administered immediately after completion of the trastuzumab infusion, if the preceding dose of trastuzumab was well tolerated. For trastuzumab dose and administration, see trastuzumab summary of product characteristics.
In combination with capecitabine, the recommended dose of docetaxel is 75 mg/m² every three weeks, combined with capecitabine at 1250 mg/m² twice daily (within 30 minutes after a meal) for 2 weeks followed by a 1-week rest period. For capecitabine dose calculation according to body surface area, see capecitabine summary of product characteristics.

Non-small cell lung cancer
In chemotherapy naïve patients treated for non-small cell lung cancer, the recommended dose regimen is docetaxel 75 mg/m² immediately followed by cisplatin 75 mg/m² over 30-60 minutes. For treatment after failure of prior platinum-based chemotherapy, the recommended dose is 75 mg/m² as a single agent.

Prostate cancer
The recommended dose of docetaxel is 75 mg/m². Prednisone or prednisolone 5 mg orally twice daily is administered continuously (see section 5.1).

Gastric adenocarcinoma
The recommended dose of docetaxel is 75 mg/m² as a 1-hour infusion, followed by cisplatin 75 mg/m² as a 1- to 3-hour infusion (both on day 1 only), followed by 5-fluorouracil 750 mg/m² per day given as a 24-hour continuous infusion for 5 days, starting at the end of the cisplatin infusion. Treatment is repeated every three weeks. Patients must receive premedication with antiemetics and appropriate hydration for cisplatin administration. Prophylactic G-CSF should be used to mitigate the risk of haematological toxicities (see also Dose adjustments during treatment).

Head and neck cancer
Patients must receive premedication with antiemetics and appropriate hydration (prior to and after cisplatin administration). Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities. All patients on the docetaxel-containing arm of the TAX 323 and TAX 324 studies, received prophylactic antibiotics.

- Induction chemotherapy followed by radiotherapy (TAX 323)
  For the induction treatment of inoperable locally advanced squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1 hour infusion followed by cisplatin 75 mg/m² over 1 hour, on day one, followed by 5-fluorouracil as a continuous infusion at 750 mg/m² per day for five days. This regimen is administered every 3 weeks for 4 cycles. Following chemotherapy, patients should receive radiotherapy.

- Induction chemotherapy followed by chemoradiotherapy (TAX 324)
  For the induction treatment of patients with locally advanced (technically unreseetable, low probability of surgical cure, and aiming at organ preservation) squamous cell carcinoma of the head and neck (SCCHN), the recommended dose of docetaxel is 75 mg/m² as a 1 hour intravenous infusion on day 1, followed by cisplatin 100 mg/m² administered as a 30-minute to 3-hour infusion, followed by 5-fluorouracil 1000 mg/m³/day as a continuous infusion from day 1 to day 4. This regimen is administered every 3 weeks for 3 cycles. Following chemotherapy, patients should receive chemoradiotherapy.

For cisplatin and 5-fluorouracil dose modifications, see the corresponding summary of product characteristics.

Dose adjustments during treatment

General
Docetaxel should be administered when the neutrophil count is ≥ 1,500 cells/mm³. In patients who experienced either febrile neutropenia, neutrophil count < 500 cells/mm³ for more than one week, severe or cumulative cutaneous reactions or severe peripheral neuropathy during docetaxel therapy, the dose of docetaxel should be reduced from 100 mg/m² to 75 mg/m² and/or from 75 to
60 mg/m². If the patient continues to experience these reactions at 60 mg/m², the treatment should be discontinued.

**Adjuvant therapy for breast cancer**

Primary G-CSF prophylaxis should be considered in patients who receive docetaxel, doxorubicin and cyclophosphamide (TAC) adjuvant therapy for breast cancer. Patients who experience febrile neutropenia and/or neutropenic infection should have their docetaxel dose reduced to 60 mg/m² in all subsequent cycles (see sections 4.4 and 4.8). Patients who experience Grade 3 or 4 stomatitis should have their dose decreased to 60 mg/m².

**In combination with cisplatin**

For patients who are dosed initially at docetaxel 75 mg/m² in combination with cisplatin and whose nadir of platelet count during the previous course of therapy is < 25,000 cells/mm³, or in patients who experience febrile neutropenia, or in patients with serious non-haematologic toxicities, the docetaxel dose in subsequent cycles should be reduced to 65 mg/m². For cisplatin dose adjustments, see the corresponding summary of product characteristics.

**In combination with capecitabine**

- For capecitabine dose modifications, see capecitabine summary of product characteristics.
- For patients developing the first appearance of Grade 2 toxicity, which persists at the time of the next docetaxel/capecitabine treatment, delay treatment until resolved to Grade 0-1, and resume at 100% of the original dose.
- For patients developing the second appearance of Grade 2 toxicity, or the first appearance of Grade 3 toxicity, at any time during the treatment cycle, delay treatment until resolved to Grade 0-1 and then resume treatment with docetaxel 55 mg/m².
- For any subsequent appearances of toxicities, or any Grade 4 toxicities, discontinue the docetaxel dose.

For trastuzumab dose modifications, see trastuzumab summary of product characteristics.

**In combination with cisplatin and 5-fluorouracil**

If an episode of febrile neutropenia, prolonged neutropenia or neutropenic infection occurs despite G-CSF use, the docetaxel dose should be reduced from 75 to 60 mg/m². If subsequent episodes of complicated neutropenia occur the docetaxel dose should be reduced from 60 to 45 mg/m². In case of Grade 4 thrombocytopenia the docetaxel dose should be reduced from 75 to 60 mg/m². Patients should not be retreated with subsequent cycles of docetaxel until neutrophils recover to a level > 1,500 cells/mm³ and platelets recover to a level > 100,000 cells/mm³. Discontinue treatment if these toxicities persist (see section 4.4).

Recommended dose modifications for toxicities in patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (5-FU):

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Dose adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Diarrhoea grade 3</strong></td>
<td>First episode: reduce 5-FU dose by 20%. Second episode: then reduce docetaxel dose by 20%.</td>
</tr>
<tr>
<td><strong>Diarrhoea grade 4</strong></td>
<td>First episode: reduce docetaxel and 5-FU doses by 20%. Second episode: discontinue treatment.</td>
</tr>
<tr>
<td><strong>Stomatitis/mucositis grade 3</strong></td>
<td>First episode: reduce 5-FU dose by 20%. Second episode: stop 5-FU only, at all subsequent cycles. Third episode: reduce docetaxel dose by 20%.</td>
</tr>
<tr>
<td><strong>Stomatitis/mucositis grade 4</strong></td>
<td>First episode: stop 5-FU only, at all subsequent cycles. Second episode: reduce docetaxel dose by 20%.</td>
</tr>
</tbody>
</table>

For cisplatin and 5-fluorouracil dose adjustments, see the corresponding summary of product characteristics.
In the pivotal SCCHN studies patients who experienced complicated neutropenia (including prolonged neutropenia, febrile neutropenia, or infection), it was recommended to use G-CSF to provide prophylactic coverage (eg, day 6-15) in all subsequent cycles.

**Special populations**

*Patients with hepatic impairment*

Based on pharmacokinetic data with docetaxel at 100 mg/m² as single agent, patients who have both elevations of transaminase (ALT and/or AST) greater than 1.5 times the upper limit of the normal range (ULN) and alkaline phosphatase greater than 2.5 times the ULN, the recommended dose of docetaxel is 75 mg/m² (see sections 4.4 and 5.2). For those patients with serum bilirubin > ULN and/or ALT and AST > 3.5 times the ULN associated with alkaline phosphatase > 6 times the ULN, no dose-reduction can be recommended and docetaxel should not be used unless strictly indicated.

In combination with cisplatin and 5-fluorouracil for the treatment of patients with gastric adenocarcinoma, the pivotal clinical study excluded patients with ALT and/or AST > 1.5 × ULN associated with alkaline phosphatase > 2.5 × ULN, and bilirubin > 1 x ULN; for these patients, no dose-reductions can be recommended and docetaxel should not be used unless strictly indicated. No data are available in patients with hepatic impairment treated by docetaxel in combination in the other indications.

*Paediatric population*

The safety and efficacy of TAXOTERE in nasopharyngeal carcinoma in children aged 1 month to less than 18 years have not yet been established.

There is no relevant use of TAXOTERE in the paediatric population in the indications breast cancer, non-small cell lung cancer, prostate cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma.

*Older people*

Based on a population pharmacokinetic analysis, there are no special instructions for use in the older people.

In combination with capcitabine, for patients 60 years of age or more, a starting dose reduction of capcitabine to 75% is recommended (see capcitabine summary of product characteristics).

### 4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Patients with baseline neutrophil count of < 1,500 cells/mm³.

Patients with severe liver impairment (see sections 4.2 and 4.4).

Contraindications for other medicinal products also apply, when combined with docetaxel.

### 4.4 Special warnings and precautions for use

For breast and non-small cell lung cancers, premedication consisting of an oral corticosteroid, such as dexamethasone 16 mg per day (e.g. 8 mg BID) for 3 days starting 1 day prior to docetaxel administration, unless contraindicated, can reduce the incidence and severity of fluid retention as well as the severity of hypersensitivity reactions. For prostate cancer, the premedication is oral dexamethasone 8 mg, 12 hours, 3 hours and 1 hour before the docetaxel infusion (see section 4.2).

**Haematology**

Neutropenia is the most frequent adverse reaction of docetaxel. Neutrophil nadirs occurred at a median of 7 days but this interval may be shorter in heavily pre-treated patients. Frequent monitoring of complete blood counts should be conducted on all patients receiving docetaxel. Patients should be retreated with docetaxel when neutrophils recover to a level ≥ 1,500 cells/mm³ (see section 4.2).
In the case of severe neutropenia (< 500 cells/mm³ for seven days or more) during a course of docetaxel therapy, a reduction in dose for subsequent courses of therapy or the use of appropriate symptomatic measures are recommended (see section 4.2).

In patients treated with docetaxel in combination with cisplatin and 5-fluorouracil (TCF), febrile neutropenia and neutropenic infection occurred at lower rates when patients received prophylactic G-CSF. Patients treated with TCF should receive prophylactic G-CSF to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients receiving TCF should be closely monitored (see sections 4.2 and 4.8).

In patients treated with docetaxel in combination with doxorubicin and cyclophosphamide (TAC), febrile neutropenia and/or neutropenic infection occurred at lower rates when patients received primary G-CSF prophylaxis. Primary G-CSF prophylaxis should be considered in patients who receive adjuvant therapy with TAC for breast cancer to mitigate the risk of complicated neutropenia (febrile neutropenia, prolonged neutropenia or neutropenic infection). Patients receiving TAC should be closely monitored (see sections 4.2 and 4.8).

Hypersensitivity reactions

Patients should be observed closely for hypersensitivity reactions especially during the first and second infusions. Hypersensitivity reactions may occur within a few minutes following the initiation of the infusion of docetaxel, thus facilities for the treatment of hypotension and bronchospasm should be available. If hypersensitivity reactions occur, minor symptoms such as flushing or localised cutaneous reactions do not require interruption of therapy. However, severe reactions, such as severe hypotension, bronchospasm or generalised rash/erythema require immediate discontinuation of docetaxel and appropriate therapy. Patients who have developed severe hypersensitivity reactions should not be re-challenged with docetaxel.

Cutaneous reactions

Localised skin erythema of the extremities (palms of the hands and soles of the feet) with oedema followed by desquamation has been observed. Severe symptoms such as eruptions followed by desquamation which lead to interruption or discontinuation of docetaxel treatment were reported (see section 4.2).

Fluid retention

Patients with severe fluid retention such as pleural effusion, pericardial effusion and ascites should be monitored closely.

Respiratory disorders

Acute respiratory distress syndrome, interstitial pneumonia/pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure have been reported and may be associated with fatal outcome. Cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.
If new or worsening pulmonary symptoms develop, patients should be closely monitored, promptly investigated, and appropriately treated. Interruption of docetaxel therapy is recommended until diagnosis is available. Early use of supportive care measures may help improve the condition. The benefit of resuming docetaxel treatment must be carefully evaluated.

Patients with liver impairment

In patients treated with docetaxel at 100 mg/m² as single agent who have serum transaminase levels (ALT and/or AST) greater than 1.5 times the ULN concurrent with serum alkaline phosphatase levels greater than 2.5 times the ULN, there is a higher risk of developing severe adverse reactions such as
toxic deaths including sepsis and gastrointestinal haemorrhage which can be fatal, febrile neutropenia, infections, thrombocytopenia, stomatitis and asthenia. Therefore, the recommended dose of docetaxel in those patients with elevated liver function test (LFTs) is 75 mg/m² and LFTs should be measured at baseline and before each cycle (see section 4.2).

For patients with serum bilirubin levels > ULN and/or ALT and AST > 3.5 times the ULN concurrent with serum alkaline phosphatase levels > 6 times the ULN, no dose-reduction can be recommended and docetaxel should not be used unless strictly indicated.

In combination with cisplatin and 5-fluourouracil for the treatment of patients with gastric adenocarcinoma, the pivotal clinical study excluded patients with ALT and/or AST > 1.5 × ULN associated with alkaline phosphatase > 2.5 × ULN, and bilirubin > 1 x ULN; for these patients, no dose-reductions can be recommended and docetaxel should not be used unless strictly indicated. No data are available in patients with hepatic impairment treated by docetaxel in combination in the other indications.

Patients with renal impairment

There are no data available in patients with severely impaired renal function treated with docetaxel.

Nervous system

The development of severe peripheral neurotoxicity requires a reduction of dose (see section 4.2).

Cardiac toxicity

Heart failure has been observed in patients receiving docetaxel in combination with trastuzumab, particularly following anthracycline (doxorubicin or epirubicin)-containing chemotherapy. This may be moderate to severe and has been associated with death (see section 4.8).

When patients are candidates for treatment with docetaxel in combination with trastuzumab, they should undergo baseline cardiac assessment. Cardiac function should be further monitored during treatment (e.g. every three months) to help identify patients who may develop cardiac dysfunction. For more details see summary of product characteristics of trastuzumab.

Ventricular arrhythmia including ventricular tachycardia (sometimes fatal) has been reported in patients treated with docetaxel in combination regimens including doxorubicin, 5-fluorouracil and/ or cyclophosphamide (see section 4.8).

Baseline cardiac assessment is recommended.

Eye disorders

Cystoid macular oedema (CMO) has been reported in patients treated with docetaxel. Patients with impaired vision should undergo a prompt and complete ophthalmologic examination. In case CMO is diagnosed, docetaxel treatment should be discontinued and appropriate treatment initiated (see section 4.8).

Others

Contraceptive measures must be taken by both men and women during treatment and for men at least 6 months after cessation of therapy (see section 4.6).

The concomitant use of docetaxel with strong CYP3A4 inhibitors (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin and voriconazole) should be avoided (see section 4.5).

Additional cautions for use in adjuvant treatment of breast cancer

Complicated neutropenia
For patients who experience complicated neutropenia (prolonged neutropenia, febrile neutropenia or infection), G-CSF and dose reduction should be considered (see section 4.2).

**Gastrointestinal reactions**

Symptoms such as early abdominal pain and tenderness, fever, diarrhoea, with or without neutropenia, may be early manifestations of serious gastrointestinal toxicity and should be evaluated and treated promptly.

**Congestive heart failure (CHF)**

Patients should be monitored for symptoms of congestive heart failure during therapy and during the follow up period. In patients treated with the TAC regimen for node positive breast cancer, the risk of CHF has been shown to be higher during the first year after treatment (see sections 4.8 and 5.1).

**Leukaemia**

In the docetaxel, doxorubicin and cyclophosphamide (TAC) treated patients, the risk of delayed myelodysplasia or myeloid leukaemia requires haematological follow-up.

**Patients with 4+ nodes**

As the benefit observed in patient with 4+ nodes was not statistically significant on disease-free survival (DFS) and overall survival (OS), the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis (see section 5.1).

**Older people**

There are limited data available in patients > 70 years of age on docetaxel use in combination with doxorubicin and cyclophosphamide.

Of the 333 patients treated with docetaxel every three weeks in a prostate cancer study, 209 patients were 65 years of age or greater and 68 patients were older than 75 years. In patients treated with docetaxel every three weeks, the incidence of related nail changes occurred at a rate ≥ 10% higher in patients who were 65 years of age or greater compared to younger patients. The incidence of related fever, diarrhoea, anorexia, and peripheral oedema occurred at rates ≥ 10% higher in patients who were 75 years of age or greater versus less than 65 years.

Among the 300 (221 patients in the phase III part of the study and 79 patients in the phase II part) patients treated with docetaxel in combination with cisplatin and 5-fluorouracil in the gastric cancer study, 74 were 65 years of age or older and 4 patients were 75 years of age or older. The incidence of serious adverse events was higher in older people compared to younger patients. The incidence of the following adverse events (all grades): lethargy, stomatitis, neutropenic infection occurred at rates ≥ 10% higher in patients who were 65 years of age or older compared to younger patients. Older people treated with TCF should be closely monitored.

**Excipients**

This medicinal product contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 3.16 g ethanol anhydrous per vial, equivalent to 80 ml of beer or 33 ml wine per vial. Harmful for those suffering from alcoholism. To be taken into account in pregnant or breast-feeding women, children and high-risk groups such as patients with liver disease, or epilepsy.

Consideration should be given to possible effects on the central nervous system.

The amount of alcohol in this medicinal product may alter the effects of other medicinal products.

The amount of alcohol in this medicinal product may impair the patients ability to drive or use machines (see section 4.7).
4.5 Interaction with other medicinal products and other forms of interaction

*In vitro* studies have shown that the metabolism of docetaxel may be modified by the concomitant administration of compounds which induce, inhibit or are metabolised by (and thus may inhibit the enzyme competitively) cytochrome P450-3A such as ciclosporine, ketoconazole and erythromycin. As a result, caution should be exercised when treating patients with these medicinal products as concomitant therapy since there is a potential for a significant interaction.

In case of combination with CYP3A4 inhibitors, the occurrence of docetaxel adverse reactions may increase, as a result of reduced metabolism. If the concomitant use of a strong CYP3A4 inhibitor (e.g., ketoconazole, itraconazole, clarithromycin, indinavir, nefazodone, nelfinavir, ritonavir, saquinavir, telithromycin and voriconazole) cannot be avoided, a close clinical surveillance is warranted and a dose-adjustment of docetaxel may be suitable during the treatment with the strong CYP3A4 inhibitor (see section 4.4). In a pharmacokinetic study with 7 patients, the co-administration of docetaxel with the strong CYP3A4 inhibitor ketoconazole leads to a significant decrease in docetaxel clearance by 49%.

Docetaxel pharmacokinetics in the presence of prednisone was studied in patients with metastatic prostate cancer. Docetaxel is metabolised by CYP3A4 and prednisone is known to induce CYP3A4. No statistically significant effect of prednisone on the pharmacokinetics of docetaxel was observed.

Docetaxel is highly protein bound (> 95%). Although the possible *in vivo* interaction of docetaxel with concomitantly administered medicinal product has not been investigated formally, *in vitro* interactions with tightly protein-bound agents such as erythromycin, diphenhydramine, propranolol, propafenone, phenytoin, salicylate, sulfamethoxazole and sodium valproate did not affect protein binding of docetaxel. In addition, dexamethasone did not affect protein binding of docetaxel. Docetaxel did not influence the binding of digitoxin.

The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their co-administration. Limited data from a single uncontrolled study were suggestive of an interaction between docetaxel and carboplatin. When combined to docetaxel, the clearance of carboplatin was about 50% higher than values previously reported for carboplatin monotherapy.

4.6 Fertility, pregnancy and lactation

**Pregnancy**

There is no information on the use of docetaxel in pregnant women. Docetaxel has been shown to be both embryotoxic and foetotoxic in rabbits and rats, and to reduce fertility in rats. As with other cytotoxic medicinal products, docetaxel may cause foetal harm when administered to pregnant women. Therefore, docetaxel must not be used during pregnancy unless clearly indicated.

Women of childbearing age receiving docetaxel should be advised to avoid becoming pregnant, and to inform the treating physician immediately should this occur.

**Breast-feeding**

Docetaxel is a lipophilic substance but it is not known whether it is excreted in human milk. Consequently, because of the potential for adverse reactions in nursing infants, breast feeding must be discontinued for the duration of docetaxel therapy.

**Contraception in males and females**

An effective method of contraception should be used during treatment.
Fertility

In non clinical studies, docetaxel has genotoxic effects and may alter male fertility (see section 5.3). Therefore, men being treated with docetaxel are advised not to father a child during and up to 6 months after treatment and to seek advice on conservation of sperm prior to treatment.

4.7 Effects on ability to drive and use machines

No studies on the effects on the ability to drive and use machines have been performed. The amount of ethanol in Taxotere may impair the ability to drive or use machines (see section 4.4).

4.8 Undesirable effects

Summary of the safety profile for all indications

The adverse reactions considered to be possibly or probably related to the administration of docetaxel have been obtained in:
- 1312 and 121 patients who received 100 mg/m² and 75 mg/m² of docetaxel as a single agent respectively.
- 258 patients who received docetaxel in combination with doxorubicin.
- 406 patients who received docetaxel in combination with cisplatin.
- 92 patients treated with docetaxel in combination with trastuzumab.
- 255 patients who received docetaxel in combination with capecitabine.
- 332 patients who received docetaxel in combination with prednisone or prednisolone (clinically important treatment related adverse events are presented).
- 1276 patients (744 and 532 in TAX 316 and GEICAM 9805 respectively) who received docetaxel in combination with doxorubicin and cyclophosphamide (clinically important treatment related adverse events are presented).
- 300 gastric adenocarcinoma patients (221 patients in the phase III part of the study and 79 patients in the phase II part) who received docetaxel in combination with cisplatin and 5-fluorouracil (clinically important treatment related adverse events are presented).
- 174 and 251 head and neck cancer patients who received docetaxel in combination with cisplatin and 5-fluorouracil (clinically important treatment related adverse events are presented).

These reactions were described using the NCI Common Toxicity Criteria (grade 3 = G3; grade 3-4 = G3/4; grade 4 = G4), the COSTART and the MedDRA terms. Frequencies are defined as:
- very common (≥ 1/10),
- common (≥ 1/100 to < 1/10),
- uncommon (≥ 1/1,000 to < 1/100),
- rare (≥ 1/10,000 to < 1/1,000),
- very rare (< 1/10,000),
- not known (cannot be estimated from available data).

Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.

The most commonly reported adverse reactions of docetaxel alone are: neutropenia (which was reversible and not cumulative; the median day to nadir was 7 days and the median duration of severe neutropenia (< 500 cells/mm³) was 7 days), anaemia, alopecia, nausea, vomiting, stomatitis, diarrhoea and asthenia. The severity of adverse events of docetaxel may be increased when docetaxel is given in combination with other chemotherapeutic agents.

For combination with trastuzumab, adverse events (all grades) reported in ≥ 10% are displayed. There was an increased incidence of SAEs (40% vs. 31%) and Grade 4 AEs (34% vs. 23%) in the trastuzumab combination arm compared to docetaxel monotherapy.

For combination with capecitabine, the most frequent treatment-related undesirable effects (≥ 5%) reported in a phase III study in breast cancer patients failing anthracycline treatment are presented (see capecitabine summary of product characteristics).
The following adverse reactions are frequently observed with docetaxel:

**Immune system disorders**

Hypersensitivity reactions have generally occurred within a few minutes following the start of the infusion of docetaxel and were usually mild to moderate. The most frequently reported symptoms were flushing, rash with or without pruritus, chest tightness, back pain, dyspnoea and fever or chills. Severe reactions were characterised by hypotension and/or bronchospasm or generalized rash/erythema (see section 4.4).

**Nervous system disorders**

The development of severe peripheral neurotoxicity requires a reduction of dose (see sections 4.2 and 4.4). Mild to moderate neuro-sensory signs are characterised by paresthesia, dysesthesia or pain including burning. Neuro-motor events are mainly characterised by weakness.

**Skin and subcutaneous tissue disorders**

Reversible cutaneous reactions have been observed and were generally considered as mild to moderate. Reactions were characterised by a rash including localised eruptions mainly on the feet and hands (including severe hand and foot syndrome), but also on the arms, face or thorax, and frequently associated with pruritus. Eruptions generally occurred within one week after the docetaxel infusion. Less frequently, severe symptoms such as eruptions followed by desquamation which rarely lead to interruption or discontinuation of docetaxel treatment were reported (see sections 4.2 and 4.4). Severe nail disorders are characterised by hypo- or hyperpigmentation and sometimes pain and onycholysis.

**General disorders and administration site conditions**

Infusion site reactions were generally mild and consisted of hyper pigmentation, inflammation, redness or dryness of the skin, phlebitis or extravasation and swelling of the vein. Fluid retention includes events such as peripheral oedema and less frequently pleural effusion, pericardial effusion, ascites and weight gain. The peripheral oedema usually starts at the lower extremities and may become generalised with a weight gain of 3 kg or more. Fluid retention is cumulative in incidence and severity (see section 4.4).

**Tabulated list of adverse reactions in breast cancer for TAXOTERE 100 mg/m² single agent**

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infections (G3/4: 5.7%; including sepsis and pneumonia, fatal in 1.7%)</td>
<td>Infection associated with G4 neutropenia (G3/4: 4.6%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 76.4%); Anaemia (G3/4: 8.9%); Febrile neutropenia</td>
<td>Thrombocytopenia (G4: 0.2%)</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 5.3%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 4.1%); Peripheral motor neuropathy (G3/4: 4%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Tab.

177
<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Arrhythmia (G3/4: 0.7%)</td>
<td>Cardiac failure</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Hypotension; Hypertension; Haemorrhage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Dyspnoea (severe: 2.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Stomatitis (G3/4: 5.3%); Diarrhoea (G3/4: 4%); Nausea (G3/4: 4%); Vomiting (G3/4: 3%)</td>
<td>Constipation (severe: 0.2%); Abdominal pain (severe: 1%); Gastrointestinal haemorrhage (severe: 0.3%)</td>
<td>Oesophagitis (severe: 0.4%)</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Skin reaction (G3/4: 5.9%); Nail disorders (severe: 2.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (severe: 1.4%)</td>
<td>Arthralgia</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Fluid retention (severe: 6.5%); Asthenia (severe: 11.2%); Pain</td>
<td>Infusion site reaction; Non-cardiac chest pain (severe: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>G3/4 Blood bilirubin increased (&lt; 5%); G3/4 Blood alkaline phosphatase increased (&lt; 4%); G3/4 AST increased (&lt; 3%); G3/4 ALT increased (&lt; 2%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description of selected adverse reactions in breast cancer for TAXOTERE 100 mg/m² single agent

**Blood and lymphatic system disorders**
Rare: bleeding episodes associated with grade 3/4 thrombocytopenia.

**Nervous system disorders**
Reversibility data are available among 35.3% of patients who developed neurotoxicity following docetaxel treatment at 100 mg/m² as single agent. The events were spontaneously reversible within 3 months.

**Skin and subcutaneous tissue disorders**
Very rare: one case of alopecia non-reversible at the end of the study. 73% of the cutaneous reactions were reversible within 21 days.

**General disorders and administration site conditions**
The median cumulative dose to treatment discontinuation was more than 1,000 mg/m² and the median time to fluid retention reversibility was 16.4 weeks (range 0 to 42 weeks). The onset of moderate and severe retention is delayed (median cumulative dose: 818.9 mg/m²) in patients with premedication compared with patients without premedication (median cumulative dose: 489.7 mg/m²); however, it has been reported in some patients during the early courses of therapy.

Tabulated list of adverse reactions in non-small cell lung cancer for TAXOTERE 75 mg/m² single agent

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infections (G3/4: 5%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 54.2%); Anaemia (G3/4: 10.8%); Thrombocytopenia (G4: 1.7%)</td>
<td>Febrile neutropenia</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 0.8%)</td>
<td>Peripheral motor neuropathy (G3/4: 2.5%)</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 3.3%); Stomatitis (G3/4: 1.7%); Vomiting (G3/4: 0.8%); Diarrhoea (G3/4: 1.7%)</td>
<td>Constipation</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Skin reaction (G3/4: 0.8%)</td>
<td>Nail disorders (severe: 0.8%)</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td></td>
<td>Myalgia</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 12.4%); Fluid retention (severe: 0.8%); Pain</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td>G3/4 Blood bilirubin increased (&lt; 2%)</td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in breast cancer for TAXOTERE 75 mg/m² in combination with doxorubicin

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 7.8%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 91.7%); Anaemia (G3/4: 9.4%); Febrile neutropenia; Thrombocytopenia (G4: 0.8%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td>Hyposensitivity (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system</td>
<td>Peripheral sensory neuropathy</td>
<td>Peripheral motor neuropathy</td>
<td></td>
</tr>
</tbody>
</table>

179
<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>disorders</td>
<td>neuropathy (G3: 0.4%)</td>
<td>neuropathy (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Cardiac failure;</td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td>Arrhythmia (no severe)</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 5%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stomatitis (G3/4: 7.8%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diarrhoea (G3/4: 6.2%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vomiting (G3/4: 5%);</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Constipation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (severe: 0.4%); Skin reaction (no severe)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Asthenia (severe: 8.1%); Fluid retention (severe: 1.2%); Pain</td>
<td></td>
<td>Myalgia</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>G3/4 Blood bilirubin increased (&lt; 2.5%); G3/4 Blood alkaline phosphatase increased (&lt; 2.5%); Pain</td>
<td></td>
<td>G3/4 AST increased (&lt; 1%); G3/4 ALT increased (&lt; 1%)</td>
</tr>
<tr>
<td>Investigations</td>
<td>G3/4 Blood bilirubin increased (&lt; 2.5%); G3/4 Blood alkaline phosphatase increased (&lt; 2.5%); Pain</td>
<td></td>
<td>G3/4 AST increased (&lt; 1%); G3/4 ALT increased (&lt; 1%)</td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in non-small cell lung cancer for TAXOTERE 75 mg/m² in combination with cisplatin

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 5.7%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G4: 51.5%); Anaemia (G3/4: 6.9%); Thrombocytopenia (G4: 0.5%)</td>
<td></td>
<td>Febrile neutropenia</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 2.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3: 3.7%); Peripheral motor neuropathy (G3/4: 2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Arrhythmia (G3/4: 0.7%)</td>
<td>Cardiac failure</td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-------------------------------</td>
<td>--------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td>Hypotension (G3/4: 0.7%)</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 9.6%); Vomiting (G3/4: 7.6%); Diarrhoea (G3/4: 6.4%); Stomatitis (G3/4: 2%)</td>
<td>Constipation</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia; Nail disorders (severe: 0.7%); Skin reaction (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myaligia (severe: 0.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Asthenia (severe: 9.9%); Fluid retention (severe: 0.7%); Fever (G3/4: 1.2%)</td>
<td>Infusion site reaction; Pain</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td></td>
<td>G3/4 Blood bilirubin increased (2.1%); G3/4 ALT increased (1.3%)</td>
<td>G3/4 AST increased (0.5%); G3/4 Blood alkaline phosphatase increased (0.3%)</td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in breast cancer for TAXOTERE 100 mg/m² in combination with trastuzumab

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Neutropenia (G3/4: 32%); Febrile neutropenia (includes neutropenia associated with fever and antibiotic use) or neutropenic sepsis</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia</td>
<td></td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td>Insomnia</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Paresthesia; Headache; Dysgeusia; Hypoaesthesia</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased; Conjunctivitis</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td>Cardiac failure</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Lymphoedema</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Epistaxis; Pharyngolaryngeal pain; Nasopharyngitis; Dyspnœa; Cough; Rhinorrhœa</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea; Diarrhoea; Vomiting; Constipation; Stomatitis; Dyspepsia; Abdominal pain</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue</td>
<td>Alopecia; Erythema; Rash; Nail</td>
<td></td>
</tr>
</tbody>
</table>
Description of selected adverse reactions in breast cancer for TAXOTERE 100 mg/m² in combination with trastuzumab

**Blood and lymphatic system disorders**
Very common: Haematological toxicity was increased in patients receiving trastuzumab and docetaxel, compared with docetaxel alone (32% grade 3/4 neutropenia versus 22%, using NCI-CTC criteria). Note that this is likely to be an underestimate since docetaxel alone at a dose of 100 mg/m² is known to result in neutropenia in 97% of patients, 76% grade 4, based on nadir blood counts. The incidence of febrile neutropenia/neutropenic sepsis was also increased in patients treated with Herceptin plus docetaxel (23% versus 17% for patients treated with docetaxel alone).

**Cardiac disorders**
Symptomatic cardiac failure was reported in 2.2% of the patients who received docetaxel plus trastuzumab compared to 0% of patients given docetaxel alone. In the docetaxel plus trastuzumab arm, 64% had received a prior anthracycline as adjuvant therapy compared with 55% in the docetaxel arm alone.

Tabulated list of adverse reactions in breast cancer for TAXOTERE 75 mg/m² in combination with capecitabine

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Neutropenia (G3/4: 63%); Anaemia (G3/4: 10%)</td>
<td>Oral candidiasis (G3/4: &lt; 1%)</td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Thrombocytopenia (G3/4: 3%)</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 1%); Decreased appetite</td>
<td>Dehydration (G3/4: 2%)</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia (G3/4: &lt; 1%); Paraesthesia (G3/4: &lt; 1%)</td>
<td>Dizziness; Headache (G3/4: &lt; 1%); Neuropathy peripheral</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Pharyngolaryngeal pain (G3/4: 2%)</td>
<td>Dyspnoea (G3/4: 1%); Cough (G3/4: &lt; 1%); Epistaxis (G3/4: &lt; 1%)</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Stomatitis (G3/4: 18%); Diarrhoea (G3/4: 14%); Nausea (G3/4: 6%); Vomiting (G3/4: 4%); Constipation (G3/4: 1%); Abdominal pain (G3/4: 2%); Dyspepsia</td>
<td>Abdominal pain upper; Dry mouth</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Hand-foot syndrome (G3/4: 24%);</td>
<td>Dermatitis; Rash erythematous (G3/4:</td>
</tr>
</tbody>
</table>
### MedDRA system organ classes

<table>
<thead>
<tr>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alopecia (G3/4: 6%); Nail disorders (G3/4: 2%)</td>
<td>&lt; 1%); Nail discolouration; Onycholyis (G3/4: 1%)</td>
</tr>
<tr>
<td><strong>Musculoskeletal and connective tissue disorders</strong></td>
<td>Pain in extremity (G3/4: &lt; 1%); Back pain (G3/4: 1%)</td>
</tr>
<tr>
<td><strong>General disorders and administration site conditions</strong></td>
<td>Lethargy; Pain</td>
</tr>
<tr>
<td><strong>Investigations</strong></td>
<td>Weight decreased; G3/4 Blood bilirubin increased (9%)</td>
</tr>
</tbody>
</table>

Tabulated list of adverse reactions in prostate cancer for TAXOTERE 75 mg/m² in combination with prednisone or prednisolone

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Infections and infestations</strong></td>
<td>Infection (G3/4: 3.3%)</td>
<td></td>
</tr>
<tr>
<td><strong>Blood and lymphatic system disorders</strong></td>
<td>Neutropenia (G3/4: 32%); Anaemia (G3/4: 4.9%)</td>
<td>Thrombocytopenia (G3/4: 0.6%); Febrile neutropenia</td>
</tr>
<tr>
<td><strong>Immune system disorders</strong></td>
<td></td>
<td>Hypersensitivity (G3/4: 0.6%)</td>
</tr>
<tr>
<td><strong>Metabolism and nutrition disorders</strong></td>
<td>Anorexia (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td><strong>Nervous system disorders</strong></td>
<td>Peripheral sensory neuropathy (G3/4: 1.2%); Dysgeusia (G3/4: 0%)</td>
<td>Peripheral motor neuropathy (G3/4: 0%)</td>
</tr>
<tr>
<td><strong>Eye disorders</strong></td>
<td></td>
<td>Lacrimation increased (G3/4: 0.6%)</td>
</tr>
<tr>
<td><strong>Cardiac disorders</strong></td>
<td></td>
<td>Cardiac left ventricular function decrease (G3/4: 0.3%)</td>
</tr>
<tr>
<td><strong>Respiratory, thoracic and mediastinal disorders</strong></td>
<td></td>
<td>Epistaxis (G3/4: 0%); Dyspnoea (G3/4: 0.6%); Cough (G3/4: 0%)</td>
</tr>
<tr>
<td><strong>Gastrointestinal disorders</strong></td>
<td>Nausea (G3/4: 2.4%); Diarrhoea (G3/4: 1.2%); Stomatitis/Pharyngitis (G3/4: 0.9%); Vomiting (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td><strong>Skin and subcutaneous tissue disorders</strong></td>
<td>Alopecia; Nail disorders (no severe)</td>
<td>Exfoliative rash (G3/4: 0.3%)</td>
</tr>
<tr>
<td><strong>Musculoskeletal and connective bone disorders</strong></td>
<td></td>
<td>Arthralgia (G3/4: 0.3%); Myalgia (G3/4: 0.3%)</td>
</tr>
<tr>
<td><strong>General disorders and administration site conditions</strong></td>
<td>Fatigue (G3/4: 3.9%); Fluid retention (severe: 0.6%)</td>
<td></td>
</tr>
</tbody>
</table>
Tabulated list of adverse reactions in breast cancer for adjuvant therapy with TAXOTERE 75 mg/m² in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer - pooled data

<table>
<thead>
<tr>
<th>MedDRA System Organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 2.4%); Neutropenic infection (G3/4: 2.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Anaemia (G3/4: 3%); Neutropenia (G3/4: 59.2%); Thrombocytopenia (G3/4: 1.6%); Febrile neutropenia (G3/4: NA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 0.6%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 1.5%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia (G3/4: 0.6%); Peripheral sensory neuropathy (G3/4: &lt;0.1%)</td>
<td>Peripheral motor neuropathy (G3/4: 0%)</td>
<td>Syncope (G3/4: 0%); Neurotoxicity (G3/4: 0%); Somnolence (G3/4: 0%)</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Conjunctivitis (G3/4: &lt;0.1%)</td>
<td>Lacrimation increased (G3/4: &lt;0.1%)</td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Arrhythmia (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Hot flush (G3/4: 0.5%)</td>
<td>Hypotension (G3/4: 0%); Phlebitis (G3/4: 0%)</td>
<td>Lymphoedema (G3/4: 0%)</td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Cough (G3/4: 0%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 5.0%); Stomatitis (G3/4: 6.0%); Vomiting (G3/4: 4.2%); Diarrhoea (G3/4: 3.4%); Constipation (G3/4: 0.5%)</td>
<td>Abdominal pain (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (persisting: &lt;3%); Skin disorder (G3/4: 0.6%); Nail disorders (G3/4: 0.4%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Myalgia (G3/4: 0.7%); Arthralgia (G3/4: 0.2%)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Description of selected adverse reactions in breast cancer for adjuvant therapy with TAXOTERE 75 mg/m² in combination with doxorubicin and cyclophosphamide in patients with node-positive (TAX 316) and node-negative (GEICAM 9805) breast cancer

**Nervous system disorders**
In study TAX316 peripheral sensory neuropathy started during the treatment period and persisted into the follow-up period in 84 patients (11.3%) in TAC arm and 15 patients (2%) in FAC arm. At the end of the follow-up period (median follow-up time of 8 years), peripheral sensory neuropathy was observed to be ongoing in 10 patients (1.3%) in TAC arm, and in 2 patients (0.3%) in FAC arm. In GEICAM 9805 study peripheral sensory neuropathy that started during the treatment period persisted into the follow-up period in 10 patients (1.9%) in TAC arm and 4 patients (0.8%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), peripheral sensory neuropathy was observed to be ongoing in 3 patients (0.6%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

**Cardiac disorders**
In study TAX316, 26 patients (3.5%) in the TAC arm and 17 patients (2.3%) in the FAC arm experienced congestive heart failure. All except one patient in each arm were diagnosed with CHF more than 30 days after the treatment period. Two patients in the TAC arm and 4 patients in the FAC arm died because of cardiac failure. In GEICAM 9805 study, 3 patients (0.6%) in TAC arm and 3 patients (0.6%) in FAC arm developed congestive heart failure during the follow-up period. At the end of the follow-up period (actual median follow-up time of 10 years and 5 months), no patients had CHF in TAC arm and 1 patient in TAC arm died because of dilated cardiomyopathy, and CHF was observed to be ongoing in 1 patient (0.2%) in FAC arm.

**Skin and subcutaneous tissue disorders**
In study TAX316 alopecia persisting into the follow-up period after the end of chemotherapy was reported in 687 of 744 TAC patients (92.3%) and 645 of 736 FAC patients (87.6%). At the end of the follow-up period (actual median follow-up time of 8 years), alopecia was observed to be ongoing in 29 TAC patients (3.9%) and 16 FAC patients (2.2%). In GEICAM 9805 study alopecia that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 49 patients (9.2%) in TAC arm and 35 patients (6.7%) in FAC arm. Alopecia related to study drug started or worsened during the follow-up period in 42 patients (7.9%) in TAC arm and 30 patients (5.8%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), alopecia was observed to be ongoing in 3 patients (0.6%) in TAC arm, and in 1 patient (0.2%) in FAC arm.

**Reproductive system and breast disorders**
In TAX316 amenorrhoea that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 202 of 744 TAC patients (27.2%) and 125 of 736...
FAC patients (17.0%). Amenorrhea was observed to be ongoing at the end of the follow-up period (median follow-up time of 8 years) in 121 of 744 TAC patients (16.3%) and 86 FAC patients (11.7%). In GEICAM 9805 study amenorrhoea that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 18 patients (3.4 %) in TAC arm and 5 patients (1.0 %) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), amenorrhoea was observed to be ongoing in 7 patients (1.3%) in TAC arm, and in 4 patients (0.8%) in FAC arm.

General disorders and administration site conditions
In study TAX316 peripheral oedema that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was observed in 119 of 744 TAC patients (16.0%) and 23 of 736 FAC patients (3.1%). At the end of the follow-up period (actual median follow-up time of 8 years), peripheral oedema was ongoing in 19 TAC patients (2.6%) and 4 FAC patients (0.5%).
In study TAX316 lymphoedema that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 11 of 744 TAC patients (1.5%) and 1 of 736 FAC patients (0.1%). At the end of the follow-up period (actual median follow-up time of 8 years), lymphoedema was observed to be ongoing in 6 TAC patients (0.8%) and 1 FAC patient (0.1%).
In study TAX316 asthenia that started during the treatment period and persisted into the follow-up period after the end of chemotherapy was reported in 236 of 744 TAC patients (31.7%) and 180 of 736 FAC patients (24.5%). At the end of the follow-up period (actual median follow-up time of 8 years), asthenia was observed to be ongoing in 29 TAC patients (3.9%) and 16 FAC patients (2.2%).

In study GEICAM 9805 peripheral oedema that started during the treatment period persisted into the follow-up period in 4 patients (0.8%) in TAC arm and in 2 patients (0.4%) in FAC arm. At the end of the follow-up period (median follow-up time of 10 years and 5 months), no patients (0%) in TAC arm had peripheral oedema and it was observed to be ongoing in 1 patient (0.2%) in FAC arm.
Lymphoedema that started during the treatment period persisted into the follow-up period in 5 patients (0.9%) in TAC arm and 2 patients (0.4 %) in FAC arm. At the end of the follow-up period, lymphoedema was observed to be ongoing in 4 patients (0.8%) in TAC arm, and in 1 patient (0.2%) in FAC arm.
Asthenia that started during the treatment period and persisted into the follow-up period was observed to be ongoing in 12 patients (2.3 %) in TAC arm and 4 patients (0.8 %) in FAC arm. At the end of the follow-up period, asthenia was observed to be ongoing in 2 patients (0.4%) in TAC arm, and in 2 patients (0.4%) in FAC arm.

Acute leukaemia / Myelodysplastic syndrome.
After 10 years of follow up in study TAX316, acute leukaemia was reported in 3 of 744 TAC patients (0.4%) and in 1 of 736 FAC patients (0.1%). One TAC patient (0.1%) and 1 FAC patient (0.1%) died due to AML during the follow-up period (median follow-up time of 8 years). Myelodysplastic syndrome was reported in 2 of 744 TAC patients (0.3%) and in 1 of 736 FAC patients (0.1%).
After 10 years of follow-up in GEICAM 9805 study, acute leukaemia occurred in 1 of 532 (0.2%) patients in TAC arm. No cases were reported in patients in FAC arm. No patient was diagnosed with myelodysplastic syndrome in either treatment groups.

Neutropenic complications
Table below shows that the incidence of Grade 4 neutropenia, febrile neutropenia and neutropenic infection was decreased in patients who received primary G-CSF prophylaxis after it was made mandatory in the TAC arm – GEICAM STUDY.

Neutropenic complications in patients receiving TAC with or without primary G-CSF prophylaxis (GEICAM 9805)

<table>
<thead>
<tr>
<th>Without primary G-CSF prophylaxis (n = 111)</th>
<th>With primary G-CSF prophylaxis (n = 421)</th>
</tr>
</thead>
<tbody>
<tr>
<td>n (%)</td>
<td>n (%)</td>
</tr>
</tbody>
</table>
Neutropenia (Grade 4) | 104 (93.7) | 135 (32.1)  
Febrile neutropenia | 28 (25.2) | 23 (5.5)  
Neutropenic infection | 14 (12.6) | 21 (5.0)  
Neutropenic infection (Grade 3-4) | 2 (1.8) | 5 (1.2)  

Tabulated list of adverse reactions in gastric adenocarcinoma cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Neutropenic infection; Infection (G3/4: 11.7%)</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Anaemia (G3/4: 20.9%); Neutropenia (G3/4: 83.2%); Thrombocytopenia (G3/4: 8.8%); Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Hypersensitivity (G3/4: 1.7%)</td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 11.7%)</td>
<td>Dizziness (G3/4: 2.3%); Peripheral motor neuropathy (G3/4: 1.3%)</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Peripheral sensory neuropathy (G3/4: 8.7%)</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Lacrimation increased (G3/4: 0%)</td>
<td>Hearing impaired (G3/4: 0%)</td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Arrhythmia (G3/4: 1.0%)</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Diarrhoea (G3/4: 19.7%); Nausea (G3/4: 16%); Stomatitis (G3/4: 23.7%); Vomiting (G3/4: 14.3%)</td>
<td>Constipation (G3/4: 1.0%); Gastrointestinal pain (G3/4: 1.0%); Oesophagitis/dysphagia/odynophagia (G3/4: 0.7%)</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 4.0%)</td>
<td>Rash pruritus (G3/4: 0.7%); Nail disorders (G3/4: 0.7%); Skin exfoliation (G3/4: 0%)</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 19.0%); Fever (G3/4: 2.3%); Fluid retention (severe/life-threatening: 1%)</td>
<td></td>
</tr>
</tbody>
</table>

Description of selected adverse reactions in gastric adenocarcinoma cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

**Blood and lymphatic system disorders**

Febrile neutropenia and neutropenic infection occurred in 17.2% and 13.5% of patients respectively, regardless of G-CSF use. G-CSF was used for secondary prophylaxis in 19.3% of patients (10.7% of the cycles). Febrile neutropenia and neutropenic infection occurred respectively in 12.1% and 3.4% of patients when patients received prophylactic G-CSF, in 15.6% and 12.9% of patients without prophylactic G-CSF (see section 4.2).
Tabulated list of adverse reactions in head and neck cancer for TAXOTERE 75 mg/m² in combination with cisplatin and 5-fluorouracil

- Induction chemotherapy followed by radiotherapy (TAX 323)

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Infection (G3/4: 6.3%); Neutropenic infection</td>
<td>Cancer pain (G3/4: 0.6%)</td>
<td></td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Neutropenia (G3/4: 76.3%); Anaemia (G3/4: 9.2%); Thrombocytopenia (G3/4: 5.2%)</td>
<td>Febrile neutropenia</td>
<td></td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Anorexia (G3/4: 0.6%)</td>
<td>Hypersensitivity (no severe)</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Dysgeusia/Parosmia; Peripheral sensory neuropathy (G3/4: 0.6%)</td>
<td>Dizziness</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vascular disorders</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 0.6%); Stomatitis (G3/4: 4.0%); Diarrhoea (G3/4: 2.9%); Vomiting (G3/4: 0.6%)</td>
<td>Constipation; Esophagitis/dysphagia/odynophagia (G3/4: 0.6%); Abdominal pain; Dyspepsia; Gastrointestinal haemorrhage (G3/4: 0.6%)</td>
<td></td>
</tr>
</tbody>
</table>
### MedDRA system organ classes

<table>
<thead>
<tr>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Skin and subcutaneous tissue disorders</strong></td>
<td>Alopecia (G3/4: 10.9%)</td>
<td>Rash pruritic; Dry skin; Skin exfoliative (G3/4: 0.6%)</td>
</tr>
<tr>
<td><strong>Musculoskeletal and connective tissue disorders</strong></td>
<td></td>
<td>Myalgia (G3/4: 0.6%)</td>
</tr>
<tr>
<td><strong>General disorders and administration site conditions</strong></td>
<td>Lethargy (G3/4: 3.4%); Pyrexia (G3/4: 0.6%); Fluid retention; Oedema</td>
<td></td>
</tr>
<tr>
<td><strong>Investigations</strong></td>
<td>Weight increased</td>
<td></td>
</tr>
</tbody>
</table>

- Induction chemotherapy followed by chemoradiotherapy (TAX 324)

<table>
<thead>
<tr>
<th>MedDRA system organ classes</th>
<th>Very common adverse reactions</th>
<th>Common adverse reactions</th>
<th>Uncommon adverse reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Infections and infestations</strong></td>
<td>Infection (G3/4: 3.6%)</td>
<td>Neutropenic infection</td>
<td></td>
</tr>
<tr>
<td><strong>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</strong></td>
<td>Neutropenia (G3/4: 83.5%); Anaemia (G3/4: 12.4%); Thrombocytopenia (G3/4: 4.0%); Febrile neutropenia</td>
<td>Cancer pain (G3/4: 1.2%)</td>
<td></td>
</tr>
<tr>
<td><strong>Blood and lymphatic system disorders</strong></td>
<td>Dysgeusia/Parosmia (G3/4: 0.4%); Peripheral sensory neuropathy (G3/4: 1.2%)</td>
<td>Dizziness (G3/4: 2.0%); Peripheral motor neuropathy (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td><strong>Immune system disorders</strong></td>
<td></td>
<td>Hypersensitivity</td>
<td></td>
</tr>
<tr>
<td><strong>Metabolism and nutrition disorders</strong></td>
<td>Anorexia (G3/4: 12.0%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Nervous system disorders</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Eye disorders</strong></td>
<td></td>
<td>Lacrimation increased</td>
<td>Conjunctivitis</td>
</tr>
<tr>
<td><strong>Ear and labyrinth disorders</strong></td>
<td>Hearing impaired (G3/4: 1.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cardiac disorders</strong></td>
<td></td>
<td>Arrhythmia (G3/4: 2.0%)</td>
<td>Ischemia myocardial</td>
</tr>
<tr>
<td><strong>Vascular disorders</strong></td>
<td></td>
<td></td>
<td>Venous disorder</td>
</tr>
<tr>
<td>MedDRA system organ classes</td>
<td>Very common adverse reactions</td>
<td>Common adverse reactions</td>
<td>Uncommon adverse reactions</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------------------------</td>
<td>-------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Nausea (G3/4: 13.9%); Stomatitis (G3/4: 20.7%); Vomiting (G3/4: 8.4%); Diarrhoea (G3/4: 6.8%); Esophagitis/dysphagia/odynophagia (G3/4: 12.0%); Constipation (G3/4: 0.4%)</td>
<td>Dyspepsia (G3/4: 0.8%); Gastrointestinal pain (G3/4: 1.2%); Gastrointestinal haemorrhage (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Alopecia (G3/4: 4.0%); Rash pruritic</td>
<td>Dry skin; Desquamation</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal, connective tissue bone disorders</td>
<td></td>
<td>Myalgia (G3/4: 0.4%)</td>
<td></td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Lethargy (G3/4: 4.0%); Pyrexia (G3/4: 3.6%); Fluid retention (G3/4: 1.2%); Oedema (G3/4: 1.2%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>Weight decreased</td>
<td></td>
<td>Weight increased</td>
</tr>
</tbody>
</table>

Post-marketing experience

*Neoplasms benign, malignant and unspecified (incl cysts and polyps)*
Cases of acute myeloid leukaemia and myelodysplastic syndrome have been reported in association with docetaxel when used in combination with other chemotherapy agents and/or radiotherapy.

*Blood and lymphatic system disorders*
Bone marrow suppression and other haematologic adverse reactions have been reported. Disseminated intravascular coagulation (DIC), often in association with sepsis or multiorgan failure, has been reported.

*Immune system disorders*
Some cases of anaphylactic shock, sometimes fatal, have been reported.

*Nervous system disorders*
Rare cases of convulsion or transient loss of consciousness have been observed with docetaxel administration. These reactions sometimes appear during the infusion of the medicinal product.

*Eye disorders*
Very rare cases of transient visual disturbances (flashes, flashing lights, scotomata) typically occurring during infusion of the medicinal product and in association with hypersensitivity reactions have been reported. These were reversible upon discontinuation of the infusion. Cases of lacrimation with or without conjunctivitis, as cases of lacrimal duct obstruction resulting in excessive tearing have been rarely reported. Cases of cystoid macular oedema (CMO) have been reported in patients treated with docetaxel.

*Ear and labyrinth disorders*
Rare cases of ototoxicity, hearing impaired and/or hearing loss have been reported.
Cardiac disorders
Rare cases of myocardial infarction have been reported. Ventricular arrhythmia including ventricular tachycardia (frequency not known), sometimes fatal, has been reported in patients treated with docetaxel in combination regimens including doxorubicin, 5-fluorouracil and/ or cyclophosphamide.

Vascular disorders
Venous thromboembolic events have rarely been reported.

Respiratory, thoracic and mediastinal disorders
Acute respiratory distress syndrome and cases of interstitial pneumonia/ pneumonitis, interstitial lung disease, pulmonary fibrosis and respiratory failure sometimes fatal have rarely been reported. Rare cases of radiation pneumonitis have been reported in patients receiving concomitant radiotherapy.

Gastrointestinal disorders
Rare occurrences of dehydration as a consequence of gastrointestinal events, gastrointestinal perforation, colitis ischaemic, colitis and neutropenic enterocolitis have been reported. Rare cases of ileus and intestinal obstruction have been reported.

Hepatobiliary disorders
Very rare cases of hepatitis, sometimes fatal primarily in patients with pre-existing liver disorders, have been reported.

Skin and subcutaneous tissue disorders
Very rare cases of cutaneous lupus erythematosus and bullous eruptions such as erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis, have been reported with docetaxel. In some cases concomitant factors may have contributed to the development of these effects. Sclerodermal-like changes usually preceded by peripheral lymphoedema have been reported with docetaxel. Cases of permanent alopecia (frequency not known) have been reported.

Renal and urinary disorders
Renal insufficiency and renal failure have been reported. In about 20% of these cases there were no risk factors for acute renal failure such as concomitant nephrotoxic medicinal products and gastrointestinal disorders.

Metabolism and nutrition disorders
Cases of electrolyte imbalance have been reported. Cases of hyponatraemia have been reported, mostly associated with dehydration, vomiting and pneumonia. Hypokalaemia, hypomagnesaemia, and hypocalcaemia were observed, usually in association with gastrointestinal disorders and in particular with diarrhoea.

Reporting of suspected adverse reactions
Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in Appendix V.

4.9 Overdose
There were a few reports of overdose. There is no known antidote for docetaxel overdose. In case of overdose, the patient should be kept in a specialised unit and vital functions closely monitored. In cases of overdose, exacerbation of adverse events may be expected. The primary anticipated
complications of overdose would consist of bone marrow suppression, peripheral neurotoxicity and mucositis. Patients should receive therapeutic G-CSF as soon as possible after discovery of overdose. Other appropriate symptomatic measures should be taken, as needed.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Taxanes, ATC Code: L01CD02

Mechanism of action

Docetaxel is an antineoplastic agent which acts by promoting the assembly of tubulin into stable microtubules and inhibits their disassembly which leads to a marked decrease of free tubulin. The binding of docetaxel to microtubules does not alter the number of protofilaments.

Docetaxel has been shown in vitro to disrupt the microtubular network in cells which is essential for vital mitotic and interphase cellular functions.

Pharmacodynamic effects

Docetaxel was found to be cytotoxic in vitro against various murine and human tumour cell lines and against freshly excised human tumour cells in clonogenic assays. Docetaxel achieves high intracellular concentrations with a long cell residence time. In addition, docetaxel was found to be active on some but not all cell lines over expressing the p-glycoprotein which is encoded by the multidrug resistance gene. In vivo, docetaxel is schedule independent and has a broad spectrum of experimental antitumour activity against advanced murine and human grafted tumours.

Clinical efficacy and safety

Breast cancer

TAXOTERE in combination with doxorubicin and cyclophosphamide: adjuvant therapy

Patients with operable node-positive breast cancer (TAX 316)

Data from a multicenter open label randomized study support the use of docetaxel for the adjuvant treatment of patients with operable node-positive breast cancer and KPS ≥ 80%, between 18 and 70 years of age. After stratification according to the number of positive lymph nodes (1-3, 4+), 1491 patients were randomized to receive either docetaxel 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² (TAC arm), or doxorubicin 50 mg/m² followed by fluorouracil 500 mg/m² and cyclophosphamide 500 mg/m² (FAC arm). Both regimens were administered once every 3 weeks for 6 cycles. Docetaxel was administered as a 1-hour infusion, all other medicinal products were given as intravenous bolus on day one. G-CSF was administered as secondary prophylaxis to patients who experienced complicated neutropenia (febrile neutropenia, prolonged neutropenia, or infection). Patients on the TAC arm received antibiotic prophylaxis with ciprofloxacin 500 mg orally twice daily for 10 days starting on day 5 of each cycle, or equivalent. In both arms, after the last cycle of chemotherapy, patients with positive estrogen and/or progesterone receptors received tamoxifen 20 mg daily for up to 5 years. Adjuvant radiation therapy was prescribed according to guidelines in place at participating institutions and was given to 69% of patients who received TAC and 72% of patients who received FAC. Two interim analyses and one final analysis were performed. The first interim analysis was planned 3 years after the date when half of study enrollment was done. The second interim analysis was done after 400 DFS events had been recorded overall, which led to a median follow-up of 55 months. The final analysis was performed when all patients had reached their 10-year follow-up visit (unless they had a DFS event or were lost to follow-
up before). Disease-free survival (DFS) was the primary efficacy endpoint and Overall survival (OS) was the secondary efficacy endpoint.

A final analysis was performed with an actual median follow up of 96 months. Significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. Incidence of relapses at 10 years was reduced in patients receiving TAC compared to those who received FAC (39% versus 45%, respectively) i.e. an absolute risk reduction by 6% (p = 0.0043). Overall survival at 10 years was also significantly increased with TAC compared to FAC (76% versus 69%, respectively) i.e. an absolute reduction of the risk of death by 7% (p = 0.002). As the benefit observed in patients with 4+ nodes was not statistically significant on DFS and OS, the positive benefit/risk ratio for TAC in patients with 4+ nodes was not fully demonstrated at the final analysis.

Overall, the study results demonstrate a positive benefit risk ratio for TAC compared to FAC.

TAC-treated patient subsets according to prospectively defined major prognostic factors were analyzed:

<table>
<thead>
<tr>
<th>Patient subset</th>
<th>Number of patients</th>
<th>Hazard ratio*</th>
<th>95% CI</th>
<th>p =</th>
<th>Hazard ratio*</th>
<th>95% CI</th>
<th>p =</th>
</tr>
</thead>
<tbody>
<tr>
<td>No of positive nodes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall</td>
<td>745</td>
<td>0.80</td>
<td>0.68-0.93</td>
<td>0.0043</td>
<td>0.74</td>
<td>0.61-0.90</td>
<td>0.0020</td>
</tr>
<tr>
<td>1-3</td>
<td>467</td>
<td>0.72</td>
<td>0.58-0.91</td>
<td>0.0047</td>
<td>0.62</td>
<td>0.46-0.82</td>
<td>0.0008</td>
</tr>
<tr>
<td>4+</td>
<td>278</td>
<td>0.87</td>
<td>0.70-1.09</td>
<td>0.2290</td>
<td>0.87</td>
<td>0.67-1.12</td>
<td>0.2746</td>
</tr>
</tbody>
</table>

*a hazard ratio of less than 1 indicates that TAC is associated with a longer disease-free survival and overall survival compared to FAC.

Patients with operable node-negative breast cancer eligible to receive chemotherapy (GEICAM 9805)

Data from a multicenter open label randomized trial support the use of TAXOTERE for the adjuvant treatment of patients with operable node-negative breast cancer eligible to receive chemotherapy. 1060 patients were randomized to receive either TAXOTERE 75 mg/m² administered 1-hour after doxorubicin 50 mg/m² and cyclophosphamide 500 mg/m² (539 patients in TAC arm), or doxorubicin 50 mg/m² followed by fluorouracil 500 mg/m² and cyclophosphamide 500 mg/m² (521 patients in FAC arm), as adjuvant treatment of operable node-negative breast cancer patients with high risk of relapse according to 1998 St. Gallen criteria (tumour size >2 cm and/or negative ER and PR and/or high histological/nuclear grade (grade 2 to 3) and/or age <35 years). Both regimens were administered once every 3 weeks for 6 cycles. TAXOTERE was administered as a 1-hour infusion, all other medicinal products were given intravenously on day 1 every three weeks. Primary prophylactic G-CSF was made mandatory in TAC arm after 230 patients were randomized. The incidence of Grade 4 neutropenia, febrile neutropenia and neutropenic infection was decreased in patients who received primary G-CSF prophylaxis (see section 4.8). In both arms, after the last cycle of chemotherapy, patients with ER+ and/or PgR+ tumours received tamoxifen 20 mg once a day for up to 5 years. Adjuvant radiation therapy was administered according to guidelines in place at participating institutions and was given to 57.3% of patients who received TAC and 51.2% of patients who received FAC.

One primary analysis and one updated analysis were performed. The primary analysis was done when all patients had a follow-up of greater than 5 years (median follow-up time of 77 months). The updated analysis was performed when all patients had reached their 10-year (median follow up time of 10 years and 5 months) follow-up visit (unless they had a DFS event or were lost to follow-up previously). Disease-free survival (DFS) was the primary efficacy endpoint and Overall survival (OS) was the secondary efficacy endpoint.
At the median follow-up time of 77 months, significantly longer disease-free survival for the TAC arm compared to the FAC arm was demonstrated. TAC-treated patients had a 32% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.68, 95% CI (0.49-0.93), p = 0.01). At the median follow up time of 10 years and 5 months, TAC-treated patients had a 16.5% reduction in the risk of relapse compared to those treated with FAC (hazard ratio = 0.84, 95% CI (0.65-1.08), p=0.1646). DFS data were not statistically significant but were still associated with a positive trend in favour of TAC.

At the median follow-up time of 77 months, overall survival (OS) was longer in the TAC arm with TAC-treated patients having a 24% reduction in the risk of death compared to FAC (hazard ratio = 0.76, 95% CI (0.46-1.26, p = 0.29). However, the distribution of OS was not significantly different between the 2 groups.

At the median follow up time of 10 years and 5 months, TAC-treated patients had a 9% reduction in the risk of death compared to FAC-treated patients (hazard ratio = 0.91, 95% CI (0.63-1.32)). The survival rate was 93.7% in the TAC arm and 91.4 % in the FAC arm, at the 8-year follow-up timepoint, and 91.3 % in the TAC arm and 89 % in the FAC arm, at the 10-year follow-up timepoint.

The positive benefit risk ratio for TAC compared to FAC remained unchanged.

TAC-treated patient subsets according to prospectively defined major prognostic factors were analyzed in the primary analysis (at the median follow-up time of 77 months) (see table below):

### Subset Analyses-Adjuvant Therapy in Patients with Node-negative Breast Cancer Study (Intent-to-Treat Analysis)

<table>
<thead>
<tr>
<th>Patient subset</th>
<th>Number of patients in TAC group</th>
<th>Disease Free Survival</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Hazard ratio*</td>
</tr>
<tr>
<td><strong>Overall</strong></td>
<td></td>
<td>0.68</td>
</tr>
<tr>
<td><strong>Age category 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;50 years</td>
<td>260</td>
<td>0.67</td>
</tr>
<tr>
<td>≥50 years</td>
<td>279</td>
<td>0.67</td>
</tr>
<tr>
<td><strong>Age category 2</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;35 years</td>
<td>42</td>
<td>0.31</td>
</tr>
<tr>
<td>≥35 years</td>
<td>497</td>
<td>0.73</td>
</tr>
<tr>
<td><strong>Hormonal receptor status</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Negative</td>
<td>195</td>
<td>0.7</td>
</tr>
<tr>
<td>Positive</td>
<td>344</td>
<td>0.62</td>
</tr>
<tr>
<td><strong>Tumour size</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≤2 cm</td>
<td>285</td>
<td>0.69</td>
</tr>
<tr>
<td>&gt;2 cm</td>
<td>254</td>
<td>0.68</td>
</tr>
<tr>
<td><strong>Histological grade</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade 1 (includes grade not assessed)</td>
<td>64</td>
<td>0.79</td>
</tr>
<tr>
<td>Grade 2</td>
<td>216</td>
<td>0.77</td>
</tr>
<tr>
<td>Grade 3</td>
<td>259</td>
<td>0.59</td>
</tr>
<tr>
<td><strong>Menopausal status</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-Menopausal</td>
<td>285</td>
<td>0.64</td>
</tr>
<tr>
<td>Post-Menopausal</td>
<td>254</td>
<td>0.72</td>
</tr>
</tbody>
</table>

*a hazard ratio (TAC/FAC) of less than 1 indicates that TAC is associated with a longer disease free survival compared to FAC.
Exploratory subgroup analyses for disease-free survival for patients who meet the 2009 St. Gallen chemotherapy criteria – (ITT population) were performed and presented here below:

<table>
<thead>
<tr>
<th>Subgroups</th>
<th>TAC (n=539)</th>
<th>FAC (n=521)</th>
<th>Hazard ratio (TAC/FAC) (95% CI)</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting relative indication for chemotherapy a</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>18/214 (8.4%)</td>
<td>26/227 (11.5%)</td>
<td>0.796 (0.434 - 1.459)</td>
<td>0.4593</td>
</tr>
<tr>
<td>Yes</td>
<td>48/325 (14.8%)</td>
<td>69/294 (23.5%)</td>
<td>0.606 (0.42 - 0.877)</td>
<td>0.0072</td>
</tr>
</tbody>
</table>

TAC = docetaxel, doxorubicin and cyclophosphamide  
FAC = 5-fluorouracil, doxorubicin and cyclophosphamide  
CI = confidence interval  
ER = estrogen receptor  
PR = progesterone receptor  
a ER/PR-negative or Grade 3 or tumor size >5 cm

The estimated hazard ratio was using Cox proportional hazard model with treatment group as the factor.

**TAXOTERE as single agent**

Two randomised phase III comparative studies, involving a total of 326 alkylating or 392 anthracycline failure metastatic breast cancer patients, have been performed with docetaxel at the recommended dose and regimen of 100 mg/m² every 3 weeks.

In alkylating-failure patients, docetaxel was compared to doxorubicin (75 mg/m² every 3 weeks). Without affecting overall survival time (docetaxel 15 months vs. doxorubicin 14 months, p = 0.38) or time to progression (docetaxel 27 weeks vs. doxorubicin 23 weeks, p = 0.54), docetaxel increased response rate (52% vs. 37%, p = 0.01) and shortened time to response (12 weeks vs. 23 weeks, p = 0.007). Three docetaxel patients (2%) discontinued the treatment due to fluid retention, whereas 15 doxorubicin patients (9%) discontinued due to cardiac toxicity (three cases of fatal congestive heart failure).

In anthracycline-failure patients, docetaxel was compared to the combination of mitomycin C and vinblastine (12 mg/m² every 6 weeks and 6 mg/m² every 3 weeks). Docetaxel increased response rate (33% vs. 12%, p < 0.0001), prolonged time to progression (19 weeks vs. 11 weeks, p = 0.0004) and prolonged overall survival (11 months vs. 9 months, p = 0.01).

During these two phase III studies, the safety profile of docetaxel was consistent with the safety profile observed in phase II studies (see section 4.8).

An open-label, multicenter, randomized phase III study was conducted to compare docetaxel monotherapy and paclitaxel in the treatment of advanced breast cancer in patients whose previous therapy should have included an anthracycline. A total of 449 patients were randomized to receive either docetaxel monotherapy 100 mg/m² as a 1 hour infusion or paclitaxel 175 mg/m² as a 3 hour infusion. Both regimens were administered every 3 weeks.

Without affecting the primary endpoint, overall response rate (32% vs 25%, p = 0.10), docetaxel prolonged median time to progression (24.6 weeks vs 15.6 weeks; p < 0.01) and median survival (15.3 months vs 12.7 months; p = 0.03).

More grade 3/4 adverse events were observed for docetaxel monotherapy (55.4%) compared to paclitaxel (23.0%).
**TAXOTERE in combination with doxorubicin**

One large randomized phase III study, involving 429 previously untreated patients with metastatic disease, has been performed with doxorubicin (50 mg/m²) in combination with docetaxel (75 mg/m²) (AT arm) versus doxorubicin (60 mg/m²) in combination with cyclophosphamide (600 mg/m²) (AC arm). Both regimens were administered on day 1 every 3 weeks.

- Time to progression (TTP) was significantly longer in the AT arm versus AC arm, p = 0.0138. The median TTP was 37.3 weeks (95% CI: 33.4 - 42.1) in AT arm and 31.9 weeks (95% CI: 27.4 - 36.0) in AC arm.
- Overall response rate (ORR) was significantly higher in the AT arm versus AC arm, p = 0.009. The ORR was 59.3% (95% CI: 52.8 - 65.9) in AT arm versus 46.5% (95% CI: 39.8 - 53.2) in AC arm.

In this study, AT arm showed a higher incidence of severe neutropenia (90% versus 68.6%), febrile neutropenia (33.3% versus 10%), infection (8% versus 2.4%), diarrhoea (7.5% versus 1.4%), asthenia (8.5% versus 2.4%), and pain (2.8% versus 0%) than AC arm. On the other hand, AC arm showed a higher incidence of severe anaemia (15.8% versus 8.5%) than AT arm, and, in addition, a higher incidence of severe cardiac toxicity: congestive heart failure (3.8% versus 2.8%), absolute LVEF decrease ≥ 20% (13.1% versus 6.1%), absolute LVEF decrease ≥ 30% (6.2% versus 1.1%). Toxic deaths occurred in 1 patient in the AT arm (congestive heart failure) and in 4 patients in the AC arm (1 due to septic shock and 3 due to congestive heart failure).

In both arms, quality of life measured by the EORTC questionnaire was comparable and stable during treatment and follow-up.

**TAXOTERE in combination with trastuzumab**

Docetaxel in combination with trastuzumab was studied for the treatment of patients with metastatic breast cancer whose tumours overexpress HER2, and who previously had not received chemotherapy for metastatic disease. One hundred eighty six patients were randomized to receive docetaxel (100 mg/m²) with or without trastuzumab; 60% of patients received prior anthracycline-based adjuvant chemotherapy. Docetaxel plus trastuzumab was efficacious in patients whether or not they had received prior adjuvant anthracyclines. The main test method used to determine HER2 positivity in this pivotal study was immunohistochemistry (IHC). A minority of patients were tested using fluorescence in-situ hybridization (FISH). In this study, 87% of patients had disease that was IHC 3+, and 95% of patients entered had disease that was IHC 3+ and/or FISH positive. Efficacy results are summarized in the following table:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Docetaxel plus trastuzumab¹ n = 92</th>
<th>Docetaxel¹ n = 94</th>
</tr>
</thead>
<tbody>
<tr>
<td>Response rate (95% CI)</td>
<td>61% (50-71)</td>
<td>34% (25-45)</td>
</tr>
<tr>
<td>Median duration of response</td>
<td>11.4 (9.2-15.0)</td>
<td>5.1 (4.4-6.2)</td>
</tr>
<tr>
<td>(months) (95% CI)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median TTP (months) (95% CI)</td>
<td>10.6 (7.6-12.9)</td>
<td>5.7 (5.0-6.5)</td>
</tr>
<tr>
<td>Median survival (months) (95% CI)</td>
<td>30.5² (26.8-ne)</td>
<td>22.1² (17.6-28.9)</td>
</tr>
</tbody>
</table>

TTP = time to progression; “ne” indicates that it could not be estimated or it was not yet reached.

¹Full analysis set (intent-to-treat)
²Estimated median survival
**TAXOTERE in combination with capecitabine**

Data from one multicenter, randomised, controlled phase III clinical study support the use of docetaxel in combination with capecitabine for treatment of patients with locally advanced or metastatic breast cancer after failure of cytotoxic chemotherapy, including an anthracycline. In this study, 255 patients were randomised to treatment with docetaxel (75 mg/m² as a 1 hour intravenous infusion every 3 weeks) and capecitabine (1250 mg/m² twice daily for 2 weeks followed by 1-week rest period). 256 patients were randomised to treatment with docetaxel alone (100 mg/m² as a 1 hour intravenous infusion every 3 weeks). Survival was superior in the docetaxel + capecitabine combination arm (p = 0.0126). Median survival was 442 days (docetaxel + capecitabine) vs. 352 days (docetaxel alone). The overall objective response rates in the all-randomised population (investigator assessment) were 41.6% (docetaxel + capecitabine) vs. 29.7% (docetaxel alone); p = 0.0058. Time to progressive disease was superior in the docetaxel + capecitabine combination arm (p < 0.0001). The median time to progression was 186 days (docetaxel + capecitabine) vs. 128 days (docetaxel alone).

**Non-small cell lung cancer**

Patients previously treated with chemotherapy with or without radiotherapy

In a phase III study, in previously treated patients, time to progression (12.3 weeks versus 7 weeks) and overall survival were significantly longer for docetaxel at 75 mg/m² compared to Best Supportive Care. The 1-year survival rate was also significantly longer in docetaxel (40%) versus BSC (16%). There was less use of morphinic analgesics (p < 0.01), non-morphinic analgesics (p < 0.01), other disease-related medicinal products (p = 0.06) and radiotherapy (p < 0.01) in patients treated with docetaxel at 75 mg/m² compared to those with BSC. The overall response rate was 6.8% in the evaluable patients, and the median duration of response was 26.1 weeks.

**TAXOTERE in combination with platinum agents in chemotherapy-naïve patients**

In a phase III study, 1218 patients with unresectable stage IIIB or IV NSCLC, with KPS of 70% or greater, and who did not receive previous chemotherapy for this condition, were randomised to either docetaxel (T) 75 mg/m² as a 1 hour infusion immediately followed by cisplatin (Cis) 75 mg/m² over 30-60 minutes every 3 weeks (TCis), docetaxel 75 mg/m² as a 1 hour infusion in combination with carboplatin (AUC 6 mg/ml.min) over 30-60 minutes every 3 weeks, or vinorelbine (V) 25 mg/m² administered over 6-10 minutes on days 1, 8, 15, 22 followed by cisplatin 100 mg/m² administered on day 1 of cycles repeated every 4 weeks (VCIs).
Survival data, median time to progression and response rates for two arms of the study are illustrated in the following table:

<table>
<thead>
<tr>
<th></th>
<th>TCis n = 408</th>
<th>VCis n = 404</th>
<th>Statistical analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall survival (Primary end-point):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>11.3</td>
<td>10.1</td>
<td>Hazard Ratio: 1.122</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[97.2% CI: 0.937; 1.342] *</td>
</tr>
<tr>
<td>1-year Survival (%)</td>
<td>46</td>
<td>41</td>
<td>Treatment difference: 5.4%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: -1.1; 12.0]</td>
</tr>
<tr>
<td>2-year Survival (%)</td>
<td>21</td>
<td>14</td>
<td>Treatment difference: 6.2%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: 0.2; 12.3]</td>
</tr>
<tr>
<td>Median time to progression (weeks):</td>
<td>22.0</td>
<td>23.0</td>
<td>Hazard Ratio: 1.032</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: 0.876; 1.216]</td>
</tr>
<tr>
<td>Overall response rate (%):</td>
<td>31.6</td>
<td>24.5</td>
<td>Treatment difference: 7.1%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>[95% CI: 0.7; 13.5]</td>
</tr>
</tbody>
</table>

*: Corrected for multiple comparisons and adjusted for stratification factors (stage of disease and region of treatment), based on evaluable patient population.

Secondary end-points included change of pain, global rating of quality of life by EuroQoL-5D, Lung Cancer Symptom Scale, and changes in Karnosky performance status. Results on these end-points were supportive of the primary end-points results.

For docetaxel/carboplatin combination, neither equivalent nor non-inferior efficacy could be proven compared to the reference treatment combination VCis.

**Prostate cancer**

The safety and efficacy of docetaxel in combination with prednisone or prednisolone in patients with hormone refractory metastatic prostate cancer were evaluated in a randomized multicenter phase III study. A total of 1006 patients with KPS ≥ 60 were randomized to the following treatment groups:

- Docetaxel 75 mg/m² every 3 weeks for 10 cycles.
- Docetaxel 30 mg/m² administered weekly for the first 5 weeks in a 6 week cycle for 5 cycles.
- Mitoxantrone 12 mg/m² every 3 weeks for 10 cycles.

All 3 regimens were administered in combination with prednisone or prednisolone 5 mg twice daily, continuously.

Patients who received docetaxel every three weeks demonstrated significantly longer overall survival compared to those treated with mitoxantrone. The increase in survival seen in the docetaxel weekly arm was not statistically significant compared to the mitoxantrone control arm. Efficacy endpoints for the docetaxel arms versus the control arm are summarized in the following table:
### Endpoint

<table>
<thead>
<tr>
<th></th>
<th>Docetaxel every 3 weeks</th>
<th>Docetaxel every week</th>
<th>Mitoxantrone every 3 weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of patients</td>
<td>335</td>
<td>334</td>
<td>337</td>
</tr>
<tr>
<td>Median survival</td>
<td>18.9</td>
<td>17.4</td>
<td>16.5</td>
</tr>
<tr>
<td>(months)</td>
<td>(17.0-21.2)</td>
<td>(15.7-19.0)</td>
<td>(14.4-18.6)</td>
</tr>
<tr>
<td>95% CI</td>
<td>0.761</td>
<td>0.912</td>
<td>--</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>(0.619-0.936)</td>
<td>(0.747-1.113)</td>
<td>--</td>
</tr>
<tr>
<td>p-value*†</td>
<td>0.0094</td>
<td>0.3624</td>
<td>--</td>
</tr>
<tr>
<td>Number of patients</td>
<td>291</td>
<td>282</td>
<td>300</td>
</tr>
<tr>
<td>PSA** response rate</td>
<td>45.4</td>
<td>47.9</td>
<td>31.7</td>
</tr>
<tr>
<td>(%)</td>
<td>(39.5-51.3)</td>
<td>(41.9-53.9)</td>
<td>(26.4-37.3)</td>
</tr>
<tr>
<td>p-value*†</td>
<td>0.0005</td>
<td>&lt;0.0001</td>
<td>--</td>
</tr>
<tr>
<td>Number of patients</td>
<td>153</td>
<td>154</td>
<td>157</td>
</tr>
<tr>
<td>Pain response rate</td>
<td>34.6</td>
<td>31.2</td>
<td>21.7</td>
</tr>
<tr>
<td>(%)</td>
<td>(27.1-42.7)</td>
<td>(24.0-39.1)</td>
<td>(15.5-28.9)</td>
</tr>
<tr>
<td>p-value*†</td>
<td>0.0107</td>
<td>0.0798</td>
<td>--</td>
</tr>
<tr>
<td>Number of patients</td>
<td>141</td>
<td>134</td>
<td>137</td>
</tr>
<tr>
<td>Tumour response rate</td>
<td>12.1</td>
<td>8.2</td>
<td>6.6</td>
</tr>
<tr>
<td>(%)</td>
<td>(7.2-18.6)</td>
<td>(4.2-14.2)</td>
<td>(3.0-12.1)</td>
</tr>
<tr>
<td>p-value*†</td>
<td>0.1112</td>
<td>0.5853</td>
<td>--</td>
</tr>
</tbody>
</table>

*Stratified log rank test

*Threshold for statistical significance = 0.0175

**PSA: Prostate-Specific Antigen

Given the fact that docetaxel every week presented a slightly better safety profile than docetaxel every 3 weeks, it is possible that certain patients may benefit from docetaxel every week.

No statistical differences were observed between treatment groups for Global Quality of Life.

**Gastric adenocarcinoma**

A multicenter, open-label, randomized study was conducted to evaluate the safety and efficacy of docetaxel for the treatment of patients with metastatic gastric adenocarcinoma, including adenocarcinoma of the gastroesophageal junction, who had not received prior chemotherapy for metastatic disease. A total of 445 patients with KPS > 70 were treated with either docetaxel (T) (75 mg/m² on day 1) in combination with cisplatin (C) (75 mg/m² on day 1) and 5-fluorouracil (F) (750 mg/m² per day for 5 days) or cisplatin (100 mg/m² on day 1) and 5-fluorouracil (1000 mg/m² per day for 5 days). The length of a treatment cycle was 3 weeks for the TCF arm and 4 weeks for the CF arm. The median number of cycles administered per patient was 6 (with a range of 1-16) for the TCF arm compared to 4 (with a range of 1-12) for the CF arm. Time to progression (TTP) was the primary endpoint. The risk reduction of progression was 32.1% and was associated with a significantly longer TTP (p = 0.0004) in favor of the TCF arm. Overall survival was also significantly longer (p = 0.0201) in favor of the TCF arm with a risk reduction of mortality of 22.7%. Efficacy results are summarized in the following table:
Efficacy of docetaxel in the treatment of patients with gastric adenocarcinoma

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>TCF</th>
<th>CF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median TTP (months)</td>
<td>5.6</td>
<td>3.7</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(4.86-5.91)</td>
<td>(3.45-4.47)</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>1.473</td>
<td>0.0004</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(1.189-1.825)</td>
<td></td>
</tr>
<tr>
<td>Median survival (months)</td>
<td>9.2</td>
<td>8.6</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(8.38-10.58)</td>
<td>(7.16-9.46)</td>
</tr>
<tr>
<td>2-year estimate (%)</td>
<td>18.4</td>
<td>8.8</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td>1.293</td>
<td>0.0201</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(1.041-1.606)</td>
<td></td>
</tr>
<tr>
<td>Overall response rate (CR+PR) (%)</td>
<td>36.7</td>
<td>25.4</td>
</tr>
<tr>
<td>p-value</td>
<td>0.0106</td>
<td></td>
</tr>
<tr>
<td>Progressive disease as best overall response (%)</td>
<td>16.7</td>
<td>25.9</td>
</tr>
</tbody>
</table>

*Unstratified logrank test

Subgroup analyses across age, gender and race consistently favored the TCF arm compared to the CF arm.

A survival update analysis conducted with a median follow-up time of 41.6 months no longer showed a statistically significant difference although always in favour of the TCF regimen and showed that the benefit of TCF over CF is clearly observed between 18 and 30 months of follow up.

Overall, quality of life (QoL) and clinical benefit results consistently indicated improvement in favor of the TCF arm. Patients treated with TCF had a longer time to 5% definitive deterioration of global health status on the QLQ-C30 questionnaire (p = 0.0121) and a longer time to definitive worsening of Karnofsky performance status (p = 0.0088) compared to patients treated with CF.

**Head and neck cancer**

- Induction chemotherapy followed by radiotherapy (TAX323)

  The safety and efficacy of docetaxel in the induction treatment of patients with squamous cell carcinoma of the head and neck (SCCHN) was evaluated in a phase III, multicenter, open-label, randomized study (TAX323). In this study, 358 patients with inoperable locally advanced SCCHN, and WHO performance status 0 or 1, were randomized to one of two treatment arms. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² followed by cisplatin (P) 75 mg/m² followed by 5-fluorouracil (F) 750 mg/m² per day as a continuous infusion for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (≥ 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks for 4 cycles in case at least a minor response (≥ 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines for 7 weeks (TPF/RT). Patients on the comparator arm received cisplatin (P) 100 mg/m² followed by 5-fluorouracil (F) 1000 mg/m² per day for 5 days. This regimen was administered every three weeks for 4 cycles in case at least a minor response (≥ 25% reduction in bidimensionally measured tumour size) was observed after 2 cycles. At the end of chemotherapy, with a minimal interval of 4 weeks and a maximal interval of 7 weeks, patients whose disease did not progress received radiotherapy (RT) according to institutional guidelines for 7 weeks (PF/RT). Locoregional therapy with radiation was delivered either with a conventional fraction (1.8 Gy - 2.0 Gy once a day, 5 days per week for a total dose of 66 to 70 Gy), or accelerated/hyperfractionated regimens of radiation therapy (twice a day, with a minimum interfraction interval of 6 hours, 5 days per week). A total of 70 Gy was recommended for accelerated regimens and 74 Gy for hyperfractionated schemes. Surgical resection was allowed following chemotherapy, before or after radiotherapy. Patients on the TPF arm received antibiotic prophylaxis with ciprofloxacin 500 mg orally twice daily for 10 days starting on day 5 of each cycle, or equivalent.
The primary endpoint in this study, progression-free survival (PFS), was significantly longer in the TPF arm compared to the PF arm, $p = 0.0042$ (median PFS: 11.4 vs. 8.3 months respectively) with an overall median follow up time of 33.7 months. Median overall survival was also significantly longer in favor of the TPF arm compared to the PF arm (median OS: 18.6 vs. 14.5 months respectively) with a 28% risk reduction of mortality, $p = 0.0128$. Efficacy results are presented in the table below:

### Efficacy of docetaxel in the induction treatment of patients with inoperable locally advanced SCCHN (Intent-to-Treat Analysis)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel + Cis + 5-FU</th>
<th>Cis + 5-FU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n = 177</td>
<td>n = 181</td>
</tr>
<tr>
<td>Median progression free survival (months)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>11.4</td>
<td>8.3</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(10.1-14.0)</td>
<td>(7.4-9.1)</td>
</tr>
<tr>
<td>Adjusted hazard ratio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>0.70</td>
<td></td>
</tr>
<tr>
<td>*p-value</td>
<td>(0.55-0.89)</td>
<td></td>
</tr>
<tr>
<td>Median survival (months)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>18.6</td>
<td>14.5</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(15.7-24.0)</td>
<td>(11.6-18.7)</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>0.72</td>
<td></td>
</tr>
<tr>
<td>**p-value</td>
<td>(0.56-0.93)</td>
<td></td>
</tr>
<tr>
<td>Best overall response to chemotherapy (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>67.8</td>
<td>53.6</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(60.4-74.6)</td>
<td>(46.0-61.0)</td>
</tr>
<tr>
<td>***p-value</td>
<td></td>
<td>0.006</td>
</tr>
<tr>
<td>Best overall response to study treatment [chemotherapy +/- radiotherapy] (%)</td>
<td>72.3</td>
<td>58.6</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(65.1-78.8)</td>
<td>(51.0-65.8)</td>
</tr>
<tr>
<td>***p-value</td>
<td></td>
<td>0.006</td>
</tr>
<tr>
<td>Median duration of response to chemotherapy ± radiotherapy (months)</td>
<td>n = 128</td>
<td>n = 106</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>15.7</td>
<td>11.7</td>
</tr>
<tr>
<td>(95% CI)</td>
<td>(13.4-24.6)</td>
<td>(10.2-17.4)</td>
</tr>
<tr>
<td>Hazard ratio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>0.72</td>
<td></td>
</tr>
<tr>
<td>**p-value</td>
<td>(0.52-0.99)</td>
<td></td>
</tr>
</tbody>
</table>

A hazard ratio of less than 1 favors docetaxel + cisplatin + 5-FU

* Cox model (adjustment for Primary tumour site, T and N clinical stages and PSWHO)

** Logrank test

*** Chi-square test

### Quality of life parameters

Patients treated with TPF experienced significantly less deterioration of their Global health score compared to those treated with PF ($p = 0.01$, using the EORTC QLQ-C30 scale).

### Clinical benefit parameters

The performance status scale, for head and neck (PSS-HN) subscales designed to measure understandability of speech, ability to eat in public, and normalcy of diet, was significantly in favor of TPF as compared to PF.

Median time to first deterioration of WHO performance status was significantly longer in the TPF arm compared to PF. Pain intensity score improved during treatment in both groups indicating adequate pain management.
• Induction chemotherapy followed by chemoradiotherapy (TAX324)
The safety and efficacy of docetaxel in the induction treatment of patients with locally advanced squamous cell carcinoma of the head and neck (SCCHN) was evaluated in a randomized, multicenter open-label, phase III study (TAX324). In this study, 501 patients, with locally advanced SCCHN, and a WHO performance status of 0 or 1, were randomized to one of two arms. The study population comprised patients with technically unresectable disease, patients with low probability of surgical cure and patients aiming at organ preservation. The efficacy and safety evaluation solely addressed survival endpoints and the success of organ preservation was not formally addressed. Patients on the docetaxel arm received docetaxel (T) 75 mg/m² by intravenous infusion on day 1 followed by cisplatin (P) 100 mg/m² administered as a 30-minute to three-hour intravenous infusion, followed by the continuous intravenous infusion of 5-fluorouracil (F) 1000 mg/m²/day from day 1 to day 4. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive chemoradiotherapy (CRT) as per protocol (TPF/CRT). Patients on the comparator arm received cisplatin (P) 100 mg/m² as a 30-minute to three-hour intravenous infusion on day 1 followed by the continuous intravenous infusion of 5-fluorouracil (F) 1000 mg/m²/day from day 1 to day 5. The cycles were repeated every 3 weeks for 3 cycles. All patients who did not have progressive disease were to receive CRT as per protocol (PF/CRT).

Patients in both treatment arms were to receive 7 weeks of CRT following induction chemotherapy with a minimum interval of 3 weeks and no later than 8 weeks after start of the last cycle (day 22 to day 56 of last cycle). During radiotherapy, carboplatin (AUC 1.5) was given weekly as a one-hour intravenous infusion for a maximum of 7 doses. Radiation was delivered with megavoltage equipment using once daily fractionation (2 Gy per day, 5 days per week for 7 weeks, for a total dose of 70-72 Gy). Surgery on the primary site of disease and/or neck could be considered at anytime following completion of CRT. All patients on the docetaxel-containing arm of the study received prophylactic antibiotics. The primary efficacy endpoint in this study, overall survival (OS) was significantly longer (log-rank test, p = 0.0058) with the docetaxel-containing regimen compared to PF (median OS: 70.6 versus 30.1 months respectively), with a 30% risk reduction in mortality compared to PF (hazard ratio (HR) = 0.70, 95% confidence interval (CI) = 0.54-0.90) with an overall median follow up time of 41.9 months. The secondary endpoint, PFS, demonstrated a 29% risk reduction of progression or death and a 22 month improvement in median PFS (35.5 months for TPF and 13.1 for PF). This was also statistically significant with an HR of 0.71; 95% CI 0.56-0.90; log-rank test p = 0.004. Efficacy results are presented in the table below:
Efficacy of docetaxel in the induction treatment of patients with locally advanced SCCHN (Intent-to-Treat Analysis)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Docetaxel + Cis + 5-FU n = 255</th>
<th>Cis + 5-FU n = 246</th>
</tr>
</thead>
<tbody>
<tr>
<td>Median overall survival (months) (95% CI)</td>
<td>70.6 (49.0-NA)</td>
<td>30.1 (20.9-51.5)</td>
</tr>
<tr>
<td>Hazard ratio:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>0.70 (0.54-0.90)</td>
<td></td>
</tr>
<tr>
<td>*p-value</td>
<td>0.0058</td>
<td></td>
</tr>
<tr>
<td>Median PFS (months) (95% CI)</td>
<td>35.5 (19.3-NA)</td>
<td>13.1 (10.6-20.2)</td>
</tr>
<tr>
<td>Hazard ratio:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(95% CI)</td>
<td>0.71 (0.56-0.90)</td>
<td></td>
</tr>
<tr>
<td>**p-value</td>
<td>0.004</td>
<td></td>
</tr>
<tr>
<td>Best overall response (CR + PR) to chemotherapy (%) (95% CI)</td>
<td>71.8 (65.8-77.2)</td>
<td>64.2 (57.9-70.2)</td>
</tr>
<tr>
<td>***p-value</td>
<td>0.070</td>
<td></td>
</tr>
<tr>
<td>Best overall response (CR + PR) to study treatment [chemotherapy +/- chemoradiotherapy] (%) (95% CI)</td>
<td>76.5 (70.8-81.5)</td>
<td>71.5 (65.5-77.1)</td>
</tr>
<tr>
<td>***p-value</td>
<td>0.209</td>
<td></td>
</tr>
</tbody>
</table>

A hazard ratio of less than 1 favors docetaxel + cisplatin + fluorouracil

*un-adjusted log-rank test
**un-adjusted log-rank test, not adjusted for multiple comparisons
***Chi square test, not adjusted for multiple comparisons

NA-not applicable

Paediatric population

The European Medicines Agency has waived the obligation to submit the results of studies with TAXOTERE in all subsets of the paediatric population in breast cancer, non-small cell lung cancer, prostatic cancer, gastric carcinoma and head and neck cancer, not including type II and III less differentiated nasopharyngeal carcinoma (see section 4.2 for information on paediatric use).

5.2 Pharmacokinetic properties

Absorption

The pharmacokinetics of docetaxel have been evaluated in cancer patients after administration of 20-115 mg/m² in phase I studies. The kinetic profile of docetaxel is dose independent and consistent with a three-compartment pharmacokinetic model with half lives for the α, β and γ phases of 4 min, 36 min and 11.1 h, respectively. The late phase is due, in part, to a relatively slow efflux of docetaxel from the peripheral compartment.

Distribution

Following the administration of a 100 mg/m² dose given as a one-hour infusion a mean peak plasma level of 3.7 μg/ml was obtained with a corresponding AUC of 4.6 h.μg/ml. Mean values for total body clearance and steady-state volume of distribution were 21 l/h/m² and 113 l, respectively. Inter individual variation in total body clearance was approximately 50%. Docetaxel is more than 95% bound to plasma proteins.
Elimination

A study of $^{14}$C-docetaxel has been conducted in three cancer patients. Docetaxel was eliminated in both the urine and faeces following cytochrome P450-mediated oxidative metabolism of the tert-butyl ester group, within seven days, the urinary and faecal excretion accounted for about 6% and 75% of the administered radioactivity, respectively. About 80% of the radioactivity recovered in faeces is excreted during the first 48 hours as one major inactive metabolite and 3 minor inactive metabolites and very low amounts of unchanged medicinal product.

Special populations

Age and gender
A population pharmacokinetic analysis has been performed with docetaxel in 577 patients. Pharmacokinetic parameters estimated by the model were very close to those estimated from phase I studies. The pharmacokinetics of docetaxel were not altered by the age or sex of the patient.

Hepatic impairment
In a small number of patients ($n = 23$) with clinical chemistry data suggestive of mild to moderate liver function impairment (ALT, AST $\geq$ 1.5 times the ULN associated with alkaline phosphatase $\geq$ 2.5 times the ULN), total clearance was lowered by 27% on average (see section 4.2).

Fluid retention
Docetaxel clearance was not modified in patients with mild to moderate fluid retention and there are no data available in patients with severe fluid retention.

Combination therapy

Doxorubicin
When used in combination, docetaxel does not influence the clearance of doxorubicin and the plasma levels of doxorubicinol (a doxorubicin metabolite). The pharmacokinetics of docetaxel, doxorubicin and cyclophosphamide were not influenced by their co-administration.

Capecitabine
Phase I study evaluating the effect of capecitabine on the pharmacokinetics of docetaxel and vice versa showed no effect by capecitabine on the pharmacokinetics of docetaxel (Cmax and AUC) and no effect by docetaxel on the pharmacokinetics of a relevant capecitabine metabolite 5'-DFUR.

Cisplatin
Clearance of docetaxel in combination therapy with cisplatin was similar to that observed following monotherapy. The pharmacokinetic profile of cisplatin administered shortly after docetaxel infusion is similar to that observed with cisplatin alone.

Cisplatin and 5-fluorouracil
The combined administration of docetaxel, cisplatin and 5-fluorouracil in 12 patients with solid tumours had no influence on the pharmacokinetics of each individual medicinal product.

Prednisone and dexamethasone
The effect of prednisone on the pharmacokinetics of docetaxel administered with standard dexamethasone premedication has been studied in 42 patients.

Prednisone
No effect of prednisone on the pharmacokinetics of docetaxel was observed.

5.3 Preclinical safety data

The carcinogenic potential of docetaxel has not been studied.
Docetaxel has been shown to be mutagenic in the *in vitro* micronucleus and chromosome aberration test in CHO-K1 cells and in the *in vivo* micronucleus test in the mouse. However, it did not induce mutagenicity in the Ames test or the CHO/HGPRT gene mutation assay. These results are consistent with the pharmacological activity of docetaxel.

Undesirable effects on the testis observed in rodent toxicity studies suggest that docetaxel may impair male fertility.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Polysorbate 80  
Ethanol anhydrous  
Citric acid

6.2 Incompatibilities

This medicinal product must not be mixed with other medicinal products except those mentioned in section 6.6.

6.3 Shelf-life

**Unopened vial**  
3 years

**After opening of the vial**

Each vial is for single use and should be used immediately after opening. If not used immediately, in-use storage times and conditions are the responsibility of the user.

**Once added to the infusion bag**

From a microbiological point of view, reconstitution/dilution must take place in controlled and aseptic conditions and the medicinal product should be used immediately. If not used immediately, in-use storage times and conditions are the responsibility of the user.

Once added as recommended into the infusion bag, the docetaxel infusion solution, if stored below 25°C, is stable for 6 hours. It should be used within 6 hours (including the one hour infusion intravenous administration).

In addition, physical and chemical in-use stability of the infusion solution prepared as recommended has been demonstrated in non-PVC bags up to 48 hours when stored between 2 to 8°C.

Docetaxel infusion solution is supersaturated, therefore may crystallize over time. If crystals appear, the solution must no longer be used and shall be discarded.

6.4 Special precautions for storage

Do not store above 25°C.  
Store in the original package in order to protect from light.

For storage conditions of the diluted medicinal product, see section 6.3.
6.5 Nature and contents of container

15 ml clear glass (type I) vial with a blue aluminium seal and blue plastic flip-off cap containing 8 ml of concentrate.

Each box contains one vial.

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling

TAXOTERE is an antineoplastic agent and, as with other potentially toxic compounds, caution should be exercised when handling it and preparing TAXOTERE solutions. The use of gloves is recommended.

If TAXOTERE concentrate or infusion solution should come into contact with skin, wash immediately and thoroughly with soap and water. If TAXOTERE concentrate or infusion solution should come into contact with mucous membranes, wash immediately and thoroughly with water.

Preparation for the intravenous administration

Preparation of the infusion solution

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (TAXOTERE 160 mg/8 ml concentrate for solution for infusion, which contains only 1 vial).

TAXOTERE 160 mg/8 ml concentrate for solution for infusion requires NO prior dilution with a solvent and is ready to add to the infusion solution.

Each vial is of single use and should be used immediately.

If the vials are stored under refrigeration, allow the required number of boxes of TAXOTERE concentrate for solution for infusion to stand below 25°C for 5 minutes before use. More than one vial of TAXOTERE concentrate for solution for infusion may be necessary to obtain the required dose for the patient. Aseptically withdraw the required amount of TAXOTERE concentrate for solution for infusion using a calibrated syringe fitted with a 21G needle.

In TAXOTERE 160 mg/8 ml vial the concentration of docetaxel is 20 mg/ml.

The required volume of TAXOTERE concentrate for solution for infusion must be injected via a single injection (one shot) into a 250 ml infusion bag or bottle containing either 5% glucose solution or sodium chloride 9 mg/ml (0.9%) solution for infusion.

If a dose greater than 190 mg of docetaxel is required, use a larger volume of the infusion vehicle so that a concentration of 0.74 mg/ml docetaxel is not exceeded.

Mix the infusion bag or bottle manually using a rocking motion.

The infusion bag solution should be used within 6 hours below 25°C including the one hour infusion to the patient.

As with all parenteral products, TAXOTERE infusion solution should be visually inspected prior to use, solutions containing a precipitate should be discarded.

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.
7. MARKETING AUTHORISATION HOLDER
Aventis Pharma S.A., 20 avenue Raymond Aron, 92165 Antony Cedex, France

8. MARKETING AUTHORISATION NUMBER
EU/1/95/002/005

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION
Date of first authorisation: 27 November 1995
Date of latest renewal: 27 November 2005

10. DATE OF REVISION OF THE TEXT
Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.
ANNEX II

A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT
A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer responsible for batch release

Sanofi-Aventis Deutschland GmbH
Industriepark Höchst
65926 Frankfurt am Main
Germany

Sanofi-Aventis Zrt.
(Harbor Park) 1, Campona utca
Budapest 1225
Hungary

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to restricted medical prescription (see Annex I: Summary of Product Characteristics, section 4.2).

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORIZATION

- Periodic Safety Update Reports

The marketing authorisation holder shall submit periodic safety update reports for this product in accordance with the requirements set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and published on the European medicines web-portal.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

- Risk Management Plan (RMP)

Not applicable

- Obligation to conduct post-authorisation measures

Not applicable
ANNEX III
LABELLING AND PACKAGE LEAFLET
A. LABELLING
1. **NAME OF THE MEDICINAL PRODUCT**

TAXOTERE 20 mg/0.5 ml concentrate and solvent for solution for infusion

docetaxel

2. **STATEMENT OF ACTIVE SUBSTANCE(S)**

1 vial of TAXOTERE 20 mg/0.5 ml concentrate for solution for infusion
   20 mg docetaxel in 0.5 ml polysorbate 80 (40 mg/ml)
   Fill: 24.4 mg/0.61 ml
1 vial of solvent for TAXOTERE
   13% (w/w) ethanol 95% in water for injections
   Fill: 1.98 ml

3. **LIST OF EXCIPIENTS**

TAXOTERE vial: polysorbate 80, citric acid.
Solvent vial: ethanol 95% (see leaflet for further information), water for injections.

4. **PHARMACEUTICAL FORM AND CONTENTS**

Each blister pack of TAXOTERE 20 mg/0.5 ml concentrate and solvent for solution for infusion contains:
- one single-dose vial of concentrate,
- one single-dose vial of solvent.

5. **METHOD AND ROUTE(S) OF ADMINISTRATION**

CAUTION: Dilution required with the entire contents of the solvent vial. See accompanying preparation guide.

Intravenous use

Read the package leaflet before use.

6. **SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

Keep out of the sight and reach of children.

7. **OTHER SPECIAL WARNING(S), IF NECESSARY**

CYTOTOXIC
To be administered under the supervision of a physician experienced in the use of cytotoxic agents.

8. **EXPIRY DATE**

EXP:

9. **SPECIAL STORAGE CONDITIONS**

Do not store above 25°C or below 2°C.
Store in the original package in order to protect from light.

10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

Single-use vials - discard unused contents appropriately.

11. **NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Aventis Pharma S.A., 20 avenue Raymond Aron, 92165 Antony Cedex, France

12. **MARKETING AUTHORISATION NUMBER**

EU/1/95/002/001

13. **BATCH NUMBER**

Batch:

14. **GENERAL CLASSIFICATION FOR SUPPLY**

Medicinal product subject to medical prescription.

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

Justification for not including Braille accepted.
1. **NAME OF THE MEDICINAL PRODUCT**

   TAXOTERE 20 mg/0.5 ml concentrate and solvent for solution for infusion
docetaxel

2. **NAME OF THE MARKETING AUTHORISATION HOLDER**

   Aventis Pharma S.A

3. **EXPIRY DATE**

   EXP:

4. **BATCH NUMBER**

   Batch:

5. **OTHER**

   TAXOTERE concentrate
   SOLVENT for TAXOTERE
<table>
<thead>
<tr>
<th>MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIAL/TAXOTERE 20 mg/0.5 ml</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAXOTERE 20 mg/0.5 ml concentrate for solution for infusion</td>
</tr>
<tr>
<td>docetaxel</td>
</tr>
<tr>
<td>intravenous use</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. METHOD OF ADMINISTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read the package leaflet before use.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. EXPIRY DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXP:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. BATCH NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 ml (Fill 0.61 ml)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. OTHER</th>
</tr>
</thead>
</table>
### MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

**VIAL/SOLVENT FOR TAXOTERE 20 mg/0.5 ml**

1. **NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION**

   SOLVENT for TAXOTERE 20 mg/0.5 ml

2. **METHOD OF ADMINISTRATION**

3. **EXPIRY DATE**

   EXP:

4. **BATCH NUMBER**

   Batch:

5. **CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT**

   13% (w/w) ethanol 95% in water for injections (see leaflet for further information)
   1.5 ml (Fill 1.98 ml)

6. **OTHER**
PARTICULARS TO APPEAR ON THE OUTER PACKAGING AND THE IMMEDIATE PACKAGING
CARTON/TAXOTERE 80 mg/2 ml

1. NAME OF THE MEDICINAL PRODUCT

TAXOTERE 80 mg/2 ml concentrate and solvent for solution for infusion
docetaxel

2. STATEMENT OF ACTIVE SUBSTANCE(S)

1 vial of TAXOTERE 80 mg/2 ml concentrate for solution for infusion
80 mg docetaxel in 2 ml polysorbate 80 (40 mg/ml)
Fill: 94.4 mg/2.36 ml
1 vial of solvent for TAXOTERE
13% (w/w) ethanol 95% in water for injections
Fill: 7.33 ml

3. LIST OF EXCIPIENTS

TAXOTERE vial: polysorbate 80, citric acid.
Solvent vial: ethanol 95% (see leaflet for further information), water for injections.

4. PHARMACEUTICAL FORM AND CONTENTS

Each blister pack of TAXOTERE 80 mg/2 ml concentrate and solvent for solution for infusion contains:
• one single-dose vial of concentrate,
• one single-dose vial of solvent.

5. METHOD AND ROUTE(S) OF ADMINISTRATION

CAUTION: Dilution required with the entire contents of the solvent vial. See accompanying preparation guide.

Intravenous use

Read the package leaflet before use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

CYTOTOXIC
To be administered under the supervision of a physician experienced in the use of cytotoxic agents.

8. EXPIRY DATE
EXP:

9. SPECIAL STORAGE CONDITIONS
Do not store above 25°C or below 2°C.
Store in the original package in order to protect from light.

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
Single-use vials - discard unused contents appropriately.

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Aventis Pharma S.A., 20 avenue Raymond Aron, 92165 Antony Cedex, France

12. MARKETING AUTHORISATION NUMBER
EU/1/95/002/002

13. BATCH NUMBER
Batch:

14. GENERAL CLASSIFICATION FOR SUPPLY
Medicinal product subject to medical prescription.

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE
Justification for not including Braille accepted.
### MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS
**CONCENTRATE and SOLVENT/TAXOTERE 80 mg/2 ml**

| 1. **NAME OF THE MEDICINAL PRODUCT** | TAXOTERE 80 mg/2 ml concentrate and solvent for solution for infusion
| docetaxel |
| 2. **NAME OF THE MARKETING AUTHORISATION HOLDER** | Aventis Pharma S.A |
| 3. **EXPIRY DATE** | EXP: |
| 4. **BATCH NUMBER** | Batch: |
| 5. **OTHER** | TAXOTERE concentrate
| SOLVENT for TAXOTERE |
MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS
VIAL/TAXOTERE 80 mg/2 ml

1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION

TAXOTERE 80 mg/2 ml concentrate for solution for infusion
docetaxel
intravenous use

2. METHOD OF ADMINISTRATION

Read the package leaflet before use.

3. EXPIRY DATE

EXP:

4. BATCH NUMBER

Batch:

5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT

2 ml (Fill 2.36 ml)

6. OTHER
<table>
<thead>
<tr>
<th>MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIAL/SOLVENT FOR TAXOTERE 80 mg/2 ml</td>
</tr>
</tbody>
</table>

1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
SOLVENT for TAXOTERE 80 mg/2 ml

2. METHOD OF ADMINISTRATION

3. EXPIRY DATE
EXP:

4. BATCH NUMBER
Batch:

5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
13% (w/w) ethanol 95% in water for injections (see leaflet for further information)
6 ml (Fill 7.33 ml)

6. OTHER
PARTICULARS TO APPEAR ON OUTER PACKAGING

OUTER CARTON / TAXOTERE 20 mg/1 ml

1. NAME OF THE MEDICINAL PRODUCT

TAXOTERE 20 mg/1 ml concentrate for solution for infusion
docetaxel

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each ml of concentrate contains 20 mg docetaxel as trihydrate.

One vial of 1 ml of concentrate contains 20 mg of docetaxel.

3. LIST OF EXCIPIENTS

Excipients: polysorbate 80, ethanol anhydrous (see leaflet for further information) and citric acid.

4. PHARMACEUTICAL FORM AND CONTENTS

Concentrate for solution for infusion
1 vial

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Ready to add to infusion solution.
CAUTION: Withdraw the required amount of this docetaxel concentrate (20 mg/ml) from the vial
and add it directly into the infusion solution. See accompanying preparation guide.

Single-use vial.

Read the package leaflet before use.

Intravenous use

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

CYTOTOXIC
To be administered under the supervision of a physician experienced in the use of cytotoxic agents.
8. **EXPIRY DATE**

EXP:

Shelf life in infusion bag: see the leaflet.

9. **SPECIAL STORAGE CONDITIONS**

Do not store above 25°C.
Store in the original package in order to protect from light.

10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

Discard unused contents appropriately in accordance with local requirements.

11. **NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Aventis Pharma S.A.
20 avenue Raymond Aron
92165 Antony Cedex
France

12. **MARKETING AUTHORISATION NUMBER**

EU/1/95/002/003

13. **BATCH NUMBER**

Lot:

14. **GENERAL CLASSIFICATION FOR SUPPLY**

Medicinal product subject to medical prescription.

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

Justification for not including Braille accepted.
### MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

**VIAL LABEL / TAXOTERE 20 mg/1 ml**

1. **NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION**

   TAXOTERE 20 mg/1 ml sterile concentrate
docetaxel
Intravenous use

2. **METHOD OF ADMINISTRATION**

3. **EXPIRY DATE**

   EXP:

4. **BATCH NUMBER**

   Lot:

5. **CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT**

   Contains anhydrous ethanol (see leaflet)
1. **NAME OF THE MEDICINAL PRODUCT**

   TAXOTERE 80 mg/4 ml concentrate for solution for infusion docetaxel

2. **STATEMENT OF ACTIVE SUBSTANCE(S)**

   Each ml of concentrate contains 20 mg docetaxel as trihydrate.

   One vial of 4 ml of concentrate contains 80 mg of docetaxel.

3. **LIST OF EXCIPIENTS**

   Excipients: polysorbate 80, ethanol anhydrous (see leaflet for further information) and citric acid.

4. **PHARMACEUTICAL FORM AND CONTENTS**

   Concentrate for solution for infusion
   1 vial

5. **METHOD AND ROUTE(S) OF ADMINISTRATION**

   **Ready to add to infusion solution.**

   **CAUTION:** Withdraw the required amount of this docetaxel concentrate (20 mg/ml) from the vial and add it directly into the infusion solution. See accompanying preparation guide.

   Single-use vial.

   Read the package leaflet before use.

   Intravenous use

6. **SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN**

   Keep out of the sight and reach of children.

7. **OTHER SPECIAL WARNING(S), IF NECESSARY**

   **CYTOTOXIC**

   To be administered under the supervision of a physician experienced in the use of cytotoxic agents.
8. EXPIRY DATE

EXP:

Shelf life in infusion bag: see the leaflet.

9. SPECIAL STORAGE CONDITIONS

Do not store above 25°C.
Store in the original package in order to protect from light.

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

Discard unused contents appropriately in accordance with local requirements.

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Aventis Pharma S.A.
20 avenue Raymond Aron
92165 Antony Cedex
France

12. MARKETING AUTHORISATION NUMBER

EU/1/95/002/004

13. BATCH NUMBER

Lot:

14. GENERAL CLASSIFICATION FOR SUPPLY

Medicinal product subject to medical prescription.

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Justification for not including Braille accepted.
### MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

**VIAL LABEL / TAXOTERE 80 mg/4 ml**

1. **NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION**

   TAXOTERE 80 mg/4 ml sterile concentrate
docetaxel
Intravenous use

2. **METHOD OF ADMINISTRATION**

3. **EXPIRY DATE**

   EXP:

4. **BATCH NUMBER**

   Lot:

5. **CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT**

6. **OTHER**

   Contains anhydrous ethanol (see leaflet)
### 1. NAME OF THE MEDICINAL PRODUCT

TAXOTERE 160 mg/8 ml concentrate for solution for infusion docetaxel

### 2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each ml of concentrate contains 20 mg docetaxel as trihydrate.

One vial of 8 ml of concentrate contains 160 mg of docetaxel.

### 3. LIST OF EXCIPIENTS

Excipients: polysorbate 80, ethanol anhydrous (see leaflet for further information) and citric acid.

### 4. PHARMACEUTICAL FORM AND CONTENTS

Concentrate for solution for infusion

1 vial

### 5. METHOD AND ROUTE(S) OF ADMINISTRATION

**Ready to add to infusion solution.**

**CAUTION:** Withdraw the required amount of this docetaxel concentrate (20 mg/ml) from the vial and add it directly into the infusion solution. See accompanying preparation guide.

Single-use vial.

Read the package leaflet before use.

Intravenous use

### 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

### 7. OTHER SPECIAL WARNING(S), IF NECESSARY

**CYTOTOXIC**

To be administered under the supervision of a physician experienced in the use of cytotoxic agents.
8. **EXPIRY DATE**

EXP:

Shelf life in infusion bag: see the leaflet.

9. **SPECIAL STORAGE CONDITIONS**

Do not store above 25°C.
Store in the original package in order to protect from light.

10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

Discard unused contents appropriately in accordance with local requirements.

11. **NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER**

Aventis Pharma S.A.
20 avenue Raymond Aron
92165 Antony Cedex
France

12. **MARKETING AUTHORISATION NUMBER**

EU/1/95/002/005

13. **BATCH NUMBER**

Lot:

14. **GENERAL CLASSIFICATION FOR SUPPLY**

Medicinal product subject to medical prescription.

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

Justification for not including Braille accepted.
**MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS**

**VIAL LABEL / TAXOTERE 160 mg/8 ml**

<table>
<thead>
<tr>
<th>1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION</th>
<th>TAXOTERE 160 mg/8 ml sterile concentrate docetaxel Intravenous use</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. METHOD OF ADMINISTRATION</td>
<td></td>
</tr>
<tr>
<td>3. EXPIRY DATE</td>
<td>EXP:</td>
</tr>
<tr>
<td>4. BATCH NUMBER</td>
<td>Lot:</td>
</tr>
<tr>
<td>5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT</td>
<td></td>
</tr>
<tr>
<td>6. OTHER</td>
<td>Contains anhydrous ethanol (see leaflet)</td>
</tr>
</tbody>
</table>
B. PACKAGE LEAFLET
Read all of this leaflet carefully before you start using this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, hospital pharmacist or nurse.
- If you get any side effects talk to your doctor, hospital pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet:
1. What TAXOTERE is and what it is used for
2. What you need to know before you use TAXOTERE
3. How to use TAXOTERE
4. Possible side effects
5. How to store TAXOTERE
6. Contents of the pack and other information

1. What TAXOTERE is and what it is used for

The name of this medicine is TAXOTERE. Its common name is docetaxel. Docetaxel is a substance derived from the needles of yew trees. Docetaxel belongs to the group of anti-cancer medicines called taxoids.

TAXOTERE has been prescribed by your doctor for the treatment of breast cancer, special forms of lung cancer (non-small cell lung cancer), prostate cancer, gastric cancer or head and neck cancer:
- For the treatment of advanced breast cancer, TAXOTERE could be administered either alone or in combination with doxorubicin, or trastuzumab, or capecitabine.
- For the treatment of early breast cancer with or without lymph node involvement, TAXOTERE could be administered in combination with doxorubicin and cyclophosphamide.
- For the treatment of lung cancer, TAXOTERE could be administered either alone or in combination with cisplatin.
- For the treatment of prostate cancer, TAXOTERE is administered in combination with prednisone or prednisolone.
- For the treatment of metastatic gastric cancer, TAXOTERE is administered in combination with cisplatin and 5-fluorouracil.
- For the treatment of head and neck cancer, TAXOTERE is administered in combination with cisplatin and 5-fluorouracil.

2. What you need to know before you use TAXOTERE

You must not be given TAXOTERE if
- you are allergic (hypersensitive) to docetaxel or any of the other ingredients of TAXOTERE.
- the number of white blood cells is too low.
- you have a severe liver disease.

Warnings and precautions
Before each treatment with TAXOTERE, you will have blood tests to check that you have enough blood cells and sufficient liver function to receive TAXOTERE. In case of white blood cells disturbances, you may experience associated fever or infections.
Tell your doctor, hospital pharmacist or nurse if you have vision problems. In case of vision problems, in particular blurred vision, you should immediately have your eyes and vision examined.

Tell your doctor, hospital pharmacist or nurse if you have heart problems.

If you develop acute or worsening problems with your lungs (fever, shortness of breath or cough), please tell your doctor, hospital pharmacist or nurse immediately. Your doctor may stop your treatment immediately.

You will be asked to take premedication consisting of an oral corticosteroid such as dexamethasone, one day prior to TAXOTERE administration and to continue for one or two days after it in order to minimise certain undesirable effects which may occur after the infusion of TAXOTERE in particular allergic reactions and fluid retention (swelling of the hands, feet, legs or weight gain).

During treatment, you may be given other medicines to maintain the number of your blood cells.

TAXOTERE contains alcohol. Discuss with your doctor if you suffer from alcohol dependency, epilepsy or liver impairment. See also section “TAXOTERE contains ethanol (alcohol)” below.

Other medicines and TAXOTERE

Please tell your doctor or hospital pharmacist if you are taking or have recently taken any other medicine, including medicines obtained without a prescription. This is because TAXOTERE or the other medicine may not work as well as expected and you may be more likely to get a side effect.

Pregnancy, breast-feeding and fertility

Ask your doctor for advice before being given any medicine.

TAXOTERE must NOT be administered if you are pregnant unless clearly indicated by your doctor.

You must not become pregnant during treatment with this medicine and must use an effective method of contraception during therapy, because TAXOTERE may be harmful for the unborn baby. If pregnancy occurs during your treatment, you must immediately inform your doctor.

You must not breast-feed while you are treated with TAXOTERE.

If you are a man being treated with TAXOTERE you are advised not to father a child during and up to 6 months after treatment and to seek advice on conservation of sperm prior to treatment because docetaxel may alter male fertility.

Driving and using machines

No studies on the effects on the ability to drive and use machines have been performed.

TAXOTERE contains ethanol (alcohol)

This medicinal product contains 13% (w/w) ethanol 95% v/v (alcohol), i.e. up to 252 mg ethanol 95% v/v per solvent vial, equivalent to 6 ml of beer or 2.6 ml wine per vial.

Harmful for those suffering from alcoholism.
To be taken into account if you are pregnant or if you are breast-feeding women, in children and in high-risk groups such as patients with liver disease, or epilepsy.

The amount of alcohol in this medicinal product may have effects on the central nervous system (the part of the nervous system that includes the brain and spinal cord).
3. How to use TAXOTERE

TAXOTERE will be administered to you by a healthcare professional.

Usual dose

The dose will depend on your weight and your general condition. Your doctor will calculate your body surface area in square meters (m²) and will determine the dose you should receive.

Method and route of administration

TAXOTERE will be given by infusion into one of your veins (intravenous use). The infusion will last approximately one hour during which you will be in the hospital.

Frequency of administration

You should usually receive your infusion once every 3 weeks.

Your doctor may change the dose and frequency of dosing depending on your blood tests, your general condition and your response to TAXOTERE. In particular, please inform your doctor in case of diarrhoea, sores in the mouth, feeling of numbness or pins and needles, fever and give her/him results of your blood tests. Such information will allow her/him to decide whether a dose reduction is needed. If you have any further questions on the use of this medicine, ask your doctor, or hospital pharmacist.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Your doctor will discuss these with you and will explain the potential risks and benefits of your treatment.

The most commonly reported adverse reactions of TAXOTERE alone are: decrease in the number of red blood cells or white blood cells, alopecia, nausea, vomiting, sores in the mouth, diarrhoea and tiredness.

The severity of adverse events of TAXOTERE may be increased when TAXOTERE is given in combination with other chemotherapeutic agents.

During the infusion at the hospital the following allergic reactions (may affect more than 1 in 10 people):
- flushing, skin reactions, itching
- chest tightness; difficulty in breathing
- fever or chills
- back pain
- low blood pressure.
More severe reactions may occur.

The hospital staff will monitor your condition closely during treatment. Tell them immediately if you notice any of these effects.
Between infusions of TAXOTERE the following may occur, and the frequency may vary with the combinations of medicines that are received:

**Very common** (may affect more than 1 in 10 people):
- infections, decrease in the number of red (anaemia), or white blood cells (which are important in fighting infection) and platelets
- fever: if this happens you must tell your doctor immediately
- allergic reactions as described above
- loss of appetite (anorexia)
- insomnia
- feeling of numbness or pins and needles or pain in the joints or muscles
- headache
- alteration in sense of taste
- inflammation of the eye or increased tearing of the eyes
- swelling caused by faulty lymphatic drainage
- shortness of breath
- nasal drainage; inflammation of the throat and nose; cough
- bleeding from the nose
- sores in the mouth
- stomach upsets including nausea, vomiting and diarrhoea, constipation
- abdominal pain
- indigestion
- hair loss: in most cases normal hair growth should return. In some cases (frequency not known) permanent hair loss has been observed
- redness and swelling of the palms of your hands or soles of your feet which may cause your skin to peel (this may also occur on the arms, face, or body)
- change in the color of your nails, which may detach
- muscle aches and pains; back pain or bone pain
- change or absence of menstrual period
- swelling of the hands, feet, legs
- tiredness; or flu-like symptoms
- weight gain or loss.

**Common** (may affect up to 1 in 10 people):
- oral candidiasis
- dehydration
- dizziness
- hearing impaired
- decrease in blood pressure; irregular or rapid heart beat
- heart failure
- oesophagitis
- dry mouth
- difficulty or painful swallowing
- haemorrhage
- raised liver enzymes (hence the need for regular blood tests).

**Uncommon** (may affect up to 1 in 100 people):
- fainting
- at the injection site, skin reactions, phlebitis (inflammation of the vein) or swelling
- inflammation of the colon, small intestine; intestinal perforation
- blood clots.

**Frequency not known** (cannot be estimated from the available data):
- interstitial lung disease (inflammation of the lungs causing coughing and difficulty breathing. Inflammation of the lungs can also develop when docetaxel therapy is used with radiotherapy)
pneumonia (infection of the lungs)
- pulmonary fibrosis (scarring and thickening in the lungs with shortness of breath)
- blurred vision due to swelling of the retina within the eye (cystoid macular oedema)
- decrease of the sodium, potassium, magnesium, and/or calcium in your blood (electrolyte balance disorders)
- ventricular arrhythmia or ventricular tachycardia (manifested as irregular and/or rapid heartbeat, severe shortness of breath, dizziness, and/or fainting). Some of these symptoms can be serious. If this happens, you must tell your doctor immediately.

**Reporting of side effects**
If you get any side effects talk to your doctor, hospital pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in [Appendix V](#). By reporting side effects you can help provide more information on the safety of this medicine.

5. **How to store TAXOTERE**

Keep this medicine out of the sight and reach of children.

This medicine should not be used after the expiry date shown on the carton, blister pack and vials.

Do not store above 25°C or below 2°C.

Store in the original package in order to protect from light.

The premix solution should be used immediately after preparation. However the chemical and physical stability of the premix solution has been demonstrated for 8 hours when stored either between 2°C and 8°C or at room temperature (below 25°C).

The infusion solution should be used within 4 hours at room temperature (below 25°C).

6. **Contents of the pack and other information**

**What TAXOTERE concentrate vial contains**
- The active substance is docetaxel (as trihydrate). Each ml of docetaxel solution contains 40 mg of docetaxel (anhydrous). One vial contains 20 mg/0.5 ml docetaxel.
- The other ingredients are polysorbate 80 and citric acid.

**What solvent vial contains**
13% (w/w) ethanol 95% (see section 2) in water for injections.

**What TAXOTERE looks like and contents of the pack**
TAXOTERE 20 mg/0.5 ml concentrate for solution for infusion is a clear viscous, yellow to brown-yellow solution.

Each blister pack contains:
- one single-dose vial of concentrate and,
- one single-dose vial of solvent.

**Marketing Authorisation Holder**
Aventis Pharma S.A.
20 avenue Raymond Aron
92165 Antony Cedex
France

**Manufacturers**
For any information about this medicinal product, please contact the local representative of the Marketing Authorisation Holder.

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Tel: +421 2 33 100 100
This leaflet was last revised in 2005.

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site: http://www.ema.europa.eu/.
The following information is intended for healthcare professionals only:

PREPARATION GUIDE FOR USE WITH TAXOTERE 20 mg/0.5 ml CONCENTRATE FOR SOLUTION FOR INFUSION AND SOLVENT FOR TAXOTERE

It is important that you read the entire contents of this guide prior to the preparation of either the TAXOTERE premix solution or the TAXOTERE infusion solution

1. FORMULATION

TAXOTERE 20 mg/0.5 ml concentrate for solution for infusion is a clear viscous, yellow to brown-yellow solution containing 40 mg/ml docetaxel (anhydrous) in polysorbate 80 and citric acid. The solvent for TAXOTERE is a 13% w/w solution of ethanol 95% in water for injections.

2. PRESENTATION

TAXOTERE is supplied as single-dose vials.

Each box contains one TAXOTERE vial (20 mg/0.5 ml) and one corresponding solvent for TAXOTERE vial in a blister pack.

TAXOTERE vials should be stored between 2°C and 25°C and protected from light.

TAXOTERE should not be used after the expiry date shown on the carton, blister pack and vials.

2.1 TAXOTERE 20 mg/0.5 ml vial

- The TAXOTERE 20 mg/0.5 ml vial is a 7 ml clear glass vial with a green flip-off cap.

- The TAXOTERE 20 mg/0.5 ml vial contains a solution of docetaxel in polysorbate 80 at a concentration of 40 mg/ml.

- Each TAXOTERE 20 mg/0.5 ml vial contains 0.5 ml of a 40 mg/ml solution of docetaxel in polysorbate 80 (fill volume: 24.4 mg/0.61 ml). This volume has been established during the development of TAXOTERE to compensate for liquid loss during preparation of the premix (see section 4) due to foaming, adhesion to the walls of the vial and "dead-volume". This overfill ensures that after dilution with the entire contents of the accompanying solvent for TAXOTERE vial, there is a minimal extractable premix volume of 2 ml containing 10 mg/ml docetaxel which corresponds to the labelled amount of 20 mg/0.5 ml per vial.

2.2 Solvent for TAXOTERE 20 mg/0.5 ml vial

- The solvent for TAXOTERE 20 mg/0.5 ml vial is a 7 ml clear glass vial with a transparent colourless flip-off cap.

- The solvent for TAXOTERE composition is a 13% w/w solution of ethanol 95% in water for injections.

- Each solvent for TAXOTERE 20 mg/0.5 ml vial contains 1.98 ml. This volume has been established based on the fill volume of the TAXOTERE 20 mg/0.5 ml vial. The addition of the entire contents of the solvent vial to the contents of the TAXOTERE 20 mg/0.5 ml vial ensures a premix concentration of 10 mg/ml docetaxel.
3. RECOMMENDATIONS FOR THE SAFE HANDLING

TAXOTERE is an antineoplastic agent and, as with other potentially toxic compounds, caution should be exercised when handling it and preparing TAXOTERE solutions. The use of gloves is recommended.

If TAXOTERE concentrate, premix solution or infusion solution should come into contact with skin, wash immediately and thoroughly with soap and water. If TAXOTERE concentrate, premix solution or infusion solution should come into contact with mucous membranes, wash immediately and thoroughly with water.

4. PREPARATION FOR THE INTRAVENOUS ADMINISTRATION

4.1 Preparation of the TAXOTERE premix solution (10 mg docetaxel/ml)

4.1.1 If the vials are stored under refrigeration, allow the required number of TAXOTERE boxes to stand at room temperature (below 25°C) for 5 minutes.

4.1.2 Using a syringe fitted with a needle, aseptically withdraw the entire contents of the solvent for TAXOTERE vial by partially inverting the vial.

4.1.3 Inject the entire contents of the syringe into the corresponding TAXOTERE vial.

4.1.4 Remove the syringe and needle and mix manually by repeated inversions for at least 45 seconds. Do not shake.
4.1.5 Allow the premix vial to stand for 5 minutes at room temperature (below 25°C) and then check that the solution is homogenous and clear (foaming is normal even after 5 minutes due to the presence of polysorbate 80 in the formulation).

The premix solution contains 10 mg/ml docetaxel and should be used immediately after preparation. However the chemical and physical stability of the premix solution has been demonstrated for 8 hours when stored either between + 2°C and + 8°C or at room temperature (below 25°C).

4.2 Preparation of the infusion solution

4.2.1 More than one premix vial may be necessary to obtain the required dose for the patient. Based on the required dose for the patient expressed in mg, aseptically withdraw the corresponding premix volume containing 10 mg/ml docetaxel from the appropriate number of premix vials using graduated syringes fitted with a needle. For example, a dose of 140 mg docetaxel would require 14 ml docetaxel premix solution.

4.2.2 Inject the required premix volume into a 250 ml infusion bag or bottle containing either 5% glucose solution or sodium chloride 9 mg/ml (0.9%) solution for infusion. If a dose greater than 200 mg of docetaxel is required, use a larger volume of the infusion vehicle so that a concentration of 0.74 mg/ml docetaxel is not exceeded.

4.2.3 Mix the infusion bag or bottle manually using a rocking motion.

4.2.4 The TAXOTERE infusion solution should be used within 4 hours and should be aseptically administered as a 1-hour infusion under room temperature (below 25°C) and normal lighting conditions.

4.2.5 As with all parenteral products, TAXOTERE premix solution and infusion solution should be visually inspected prior to use, solutions containing a precipitate should be discarded.
5. DISPOSAL

All materials that have been utilised for dilution and administration should be disposed of according to standard procedures. Do not throw away any medicines via wastewater. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.
Read all of this leaflet carefully before you start using this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, hospital pharmacist or nurse.
- If you get any side effects talk to your doctor, hospital pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet:
1. What TAXOTERE is and what it is used for
2. What you need to know before you use TAXOTERE
3. How to use TAXOTERE
4. Possible side effects
5. How to store TAXOTERE
6. Contents of the pack and other information

1. What TAXOTERE is and what it is used for

The name of this medicine is TAXOTERE. Its common name is docetaxel. Docetaxel is a substance derived from the needles of yew trees.

Docetaxel belongs to the group of anti-cancer medicines called taxoids.

TAXOTERE has been prescribed by your doctor for the treatment of breast cancer, special forms of lung cancer (non-small cell lung cancer), prostate cancer, gastric cancer or head and neck cancer:
- For the treatment of advanced breast cancer, TAXOTERE could be administered either alone or in combination with doxorubicin, or trastuzumab, or capecitabine.
- For the treatment of early breast cancer with or without lymph node involvement, TAXOTERE could be administered in combination with doxorubicin and cyclophosphamide.
- For the treatment of lung cancer, TAXOTERE could be administered either alone or in combination with cisplatin.
- For the treatment of prostate cancer, TAXOTERE is administered in combination with prednisone or prednisolone.
- For the treatment of metastatic gastric cancer, TAXOTERE is administered in combination with cisplatin and 5-fluorouracil.
- For the treatment of head and neck cancer, TAXOTERE is administered in combination with cisplatin and 5-fluorouracil.

2. What you need to know before you use TAXOTERE

You must not be given TAXOTERE if

- you are allergic (hypersensitive) to docetaxel or any of the other ingredients of TAXOTERE.
- the number of white blood cells is too low.
- you have a severe liver disease.

Warnings and precautions

Before each treatment with TAXOTERE, you will have blood tests to check that you have enough blood cells and sufficient liver function to receive TAXOTERE. In case of white blood cells disturbances, you may experience associated fever or infections.
Tell your doctor, hospital pharmacist or nurse if you have vision problems. In case of vision problems, in particular blurred vision, you should immediately have your eyes and vision examined.

Tell your doctor, hospital pharmacist or nurse if you have heart problems.

If you develop acute or worsening problems with your lungs (fever, shortness of breath or cough), please tell your doctor, hospital pharmacist or nurse immediately. Your doctor may stop your treatment immediately.

You will be asked to take premedication consisting of an oral corticosteroid such as dexamethasone, one day prior to TAXOTERE administration and to continue for one or two days after it in order to minimise certain undesirable effects which may occur after the infusion of TAXOTERE in particular allergic reactions and fluid retention (swelling of the hands, feet, legs or weight gain).

During treatment, you may be given other medicines to maintain the number of your blood cells.

TAXOTERE contains alcohol. Discuss with your doctor if you suffer from alcohol dependency, epilepsy or liver impairment. See also section “TAXOTERE contains ethanol (alcohol)” below.

Other medicines and TAXOTERE

Please tell your doctor or hospital pharmacist if you are taking or have recently taken any other medicine, including medicines obtained without a prescription. This is because TAXOTERE or the other medicine may not work as well as expected and you may be more likely to get a side effect.

Pregnancy, breast-feeding and fertility

Ask your doctor for advice before being given any medicine.

TAXOTERE must NOT be administered if you are pregnant unless clearly indicated by your doctor.

You must not become pregnant during treatment with this medicine and must use an effective method of contraception during therapy, because TAXOTERE may be harmful for the unborn baby. If pregnancy occurs during your treatment, you must immediately inform your doctor.

You must not breast-feed while you are treated with TAXOTERE.

If you are a man being treated with TAXOTERE you are advised not to father a child during and up to 6 months after treatment and to seek advice on conservation of sperm prior to treatment because docetaxel may alter male fertility.

Driving and using machines

No studies on the effects on the ability to drive and use machines have been performed.

TAXOTERE contains ethanol (alcohol)

This medicinal product contains 13% (w/w) ethanol 95% v/v (alcohol), i.e. up to 932 mg ethanol 95% v/v per solvent vial, equivalent to 23 ml of beer or 9.5 ml wine per vial.

Harmful for those suffering from alcoholism. To be taken into account if you are pregnant or if you are breast-feeding women, in children and in high-risk groups such as patients with liver disease, or epilepsy.
The amount of alcohol in this medicinal product may have effects on the central nervous system (the part of the nervous system that includes the brain and spinal cord).

The amount of alcohol in this medicinal product may alter the effects of other medicines.

The amount of alcohol in this medicine may impair your ability to drive or use machines.

3. **How to use TAXOTERE**

TAXOTERE will be administered to you by a healthcare professional.

**Usual dose**

The dose will depend on your weight and your general condition. Your doctor will calculate your body surface area in square meters (m²) and will determine the dose you should receive.

**Method and route of administration**

TAXOTERE will be given by infusion into one of your veins (intravenous use). The infusion will last approximately one hour during which you will be in the hospital.

**Frequency of administration**

You should usually receive your infusion once every 3 weeks.

Your doctor may change the dose and frequency of dosing depending on your blood tests, your general condition and your response to TAXOTERE. In particular, please inform your doctor in case of diarrhoea, sores in the mouth, feeling of numbness or pins and needles, fever and give her/him results of your blood tests. Such information will allow her/him to decide whether a dose reduction is needed. If you have any further questions on the use of this medicine, ask your doctor, or hospital pharmacist.

4. **Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Your doctor will discuss these with you and will explain the potential risks and benefits of your treatment.

The most commonly reported adverse reactions of TAXOTERE alone are: decrease in the number of red blood cells or white blood cells, alopecia, nausea, vomiting, sores in the mouth, diarrhoea and tiredness.

The severity of adverse events of TAXOTERE may be increased when TAXOTERE is given in combination with other chemotherapeutic agents.

During the infusion at the hospital the following allergic reactions (may affect more than 1 in 10 people):

- flushing, skin reactions, itching
- chest tightness; difficulty in breathing
- fever or chills
- back pain
- low blood pressure.

More severe reactions may occur.
The hospital staff will monitor your condition closely during treatment. Tell them immediately if you notice any of these effects.

Between infusions of TAXOTERE the following may occur, and the frequency may vary with the combinations of medicines that are received:

**Very common** (may affect more than 1 in 10 people):
- infections, decrease in the number of red (anaemia), or white blood cells (which are important in fighting infection) and platelets
- fever: if this happens you must tell your doctor immediately
- allergic reactions as described above
- loss of appetite (anorexia)
- insomnia
- feeling of numbness or pins and needles or pain in the joints or muscles
- headache
- alteration in sense of taste
- inflammation of the eye or increased tearing of the eyes
- swelling caused by faulty lymphatic drainage
- shortness of breath
- nasal drainage; inflammation of the throat and nose; cough
- bleeding from the nose
- sores in the mouth
- stomach upsets including nausea, vomiting and diarrhoea, constipation
- abdominal pain
- indigestion
- hair loss: in most cases normal hair growth should return. In some cases (frequency not known) permanent hair loss has been observed
- redness and swelling of the palms of your hands or soles of your feet which may cause your skin to peel (this may also occur on the arms, face, or body)
- change in the color of your nails, which may detach
- muscle aches and pains; back pain or bone pain
- change or absence of menstrual period
- swelling of the hands, feet, legs
- tiredness; or flu-like symptoms
- weight gain or loss.

**Common** (may affect up to 1 in 10 people):
- oral candidiasis
- dehydration
- dizziness
- hearing impaired
- decrease in blood pressure; irregular or rapid heart beat
- heart failure
- oesophagitis
- dry mouth
- difficulty or painful swallowing
- haemorrhage
- raised liver enzymes (hence the need for regular blood tests).

**Uncommon** (may affect up to 1 in 100 people):
- fainting
- at the injection site, skin reactions, phlebitis (inflammation of the vein) or swelling
- inflammation of the colon, small intestine; intestinal perforation
- blood clots
**Frequency not known** (cannot be estimated from the available data):
- interstitial lung disease (inflammation of the lungs causing coughing and difficulty breathing. Inflammation of the lungs can also develop when docetaxel therapy is used with radiotherapy)
- pneumonia (infection of the lungs)
- pulmonary fibrosis (scarring and thickening in the lungs with shortness of breath)
- blurred vision due to swelling of the retina within the eye (cystoid macular oedema)
- decrease of the sodium, potassium, magnesium, and/or calcium in your blood (electrolyte balance disorders)
- ventricular arrhythmia or ventricular tachycardia (manifested as irregular and/or rapid heartbeat, severe shortness of breath, dizziness, and/or fainting). Some of these symptoms can be serious. If this happens, you must tell your doctor immediately.

**Reporting of side effects**
If you get any side effects talk to your doctor, hospital pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. **How to store TAXOTERE**

Keep this medicine out of the sight and reach of children.

This medicine should not be used after the expiry date shown on the carton, blister pack and vials.

Do not store above 25°C or below 2°C.
Store in the original package in order to protect from light.

The premix solution should be used immediately after preparation. However the chemical and physical stability of the premix solution has been demonstrated for 8 hours when stored either between 2°C and 8°C or at room temperature (below 25°C).

The infusion solution should be used within 4 hours at room temperature (below 25°C).

6. **Contents of the pack and other information**

**What TAXOTERE concentrate vial contains**
- The active substance is docetaxel (as trihydrate). Each ml of docetaxel solution contains 40 mg of docetaxel (anhydrous). One vial contains 80 mg/2 ml docetaxel.
- The other ingredients are polysorbate 80 and citric acid.

**What solvent vial contains**
13% (w/w) ethanol 95% (see section 2) in water for injections.

**What TAXOTERE looks like and contents of the pack**
TAXOTERE 80 mg/2 ml concentrate for solution for infusion is a clear viscous, yellow to brown-yellow solution.

Each blister pack contains:
- one single-dose vial of concentrate and,
- one single-dose vial of solvent.

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This leaflet was last revised in.

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site: http://www.ema.europa.eu/.
The following information is intended for healthcare professionals only:

PREPARATION GUIDE FOR USE WITH TAXOTERE 80 mg/2 ml CONCENTRATE FOR SOLUTION FOR INFUSION AND SOLVENT FOR TAXOTERE

It is important that you read the entire contents of this guide prior to the preparation of either the TAXOTERE premix solution or the TAXOTERE infusion solution

1. FORMULATION

TAXOTERE 80 mg/2 ml concentrate for solution for infusion is a clear viscous, yellow to brown-yellow solution containing 40 mg/ml docetaxel (anhydrous) in polysorbate 80 and citric acid. The solvent for TAXOTERE is a 13% w/w solution of ethanol 95% in water for injections.

2. PRESENTATION

TAXOTERE is supplied as single-dose vials.

Each box contains one TAXOTERE vial (80 mg/2 ml) and one corresponding solvent for TAXOTERE vial in a blister pack.

TAXOTERE vials should be stored between 2°C and 25°C and protected from light. TAXOTERE should not be used after the expiry date shown on the carton, blister pack and vials.

2.1 TAXOTERE 80 mg/2 ml vial

- The TAXOTERE 80 mg/2 ml vial is a 15 ml clear glass vial with a red flip-off cap.

- The TAXOTERE 80 mg/2 ml vial contains a solution of docetaxel in polysorbate 80 at a concentration of 40 mg/ml.

- Each TAXOTERE 80 mg/2 ml vial contains 2.0 ml of a 40 mg/ml solution of docetaxel in polysorbate 80 (fill volume: 94.4 mg/2.36 ml). This volume has been established during the development of TAXOTERE to compensate for liquid loss during preparation of the premix (see section 4) due to foaming, adhesion to the walls of the vial and "dead-volume". This overfill ensures that after dilution with the entire contents of the accompanying solvent for TAXOTERE vial, there is a minimal extractable premix volume of 8 ml containing 10 mg/ml docetaxel which corresponds to the labelled amount of 80 mg/2 ml per vial.

2.2 Solvent for TAXOTERE 80 mg/2 ml vial

- The solvent for TAXOTERE 80 mg/2 ml vial is a 15 ml clear glass vial with a transparent colourless flip-off cap.

- The solvent for TAXOTERE composition is a 13% w/w solution of ethanol 95% in water for injections.

- Each solvent for TAXOTERE 80 mg/2 ml vial contains 7.33 ml. This volume has been established based on the fill volume of the TAXOTERE 80 mg/2 ml vial. The addition of the entire contents of the solvent vial to the contents of the TAXOTERE 80 mg/2 ml vial ensures a premix concentration of 10 mg/ml docetaxel.
3. RECOMMENDATIONS FOR THE SAFE HANDLING

TAXOTERE is an antineoplastic agent and, as with other potentially toxic compounds, caution should be exercised when handling it and preparing TAXOTERE solutions. The use of gloves is recommended.

If TAXOTERE concentrate, premix solution or infusion solution should come into contact with skin, wash immediately and thoroughly with soap and water. If TAXOTERE concentrate, premix solution or infusion solution should come into contact with mucous membranes, wash immediately and thoroughly with water.

4. PREPARATION FOR THE INTRAVENOUS ADMINISTRATION

4.1 Preparation of the TAXOTERE premix solution (10 mg docetaxel/ml)

4.1.1 If the vials are stored under refrigeration, allow the required number of TAXOTERE boxes to stand at room temperature (below 25°C) for 5 minutes.

4.1.2 Using a syringe fitted with a needle, aseptically withdraw the entire contents of the solvent for TAXOTERE vial by partially inverting the vial.

4.1.3 Inject the entire contents of the syringe into the corresponding TAXOTERE vial.

4.1.4 Remove the syringe and needle and mix manually by repeated inversions for at least 45 seconds. Do not shake.
4.1.5 Allow the premix vial to stand for 5 minutes at room temperature (below 25°C) and then check that the solution is homogenous and clear (foaming is normal even after 5 minutes due to the presence of polysorbate 80 in the formulation).

The premix solution contains 10 mg/ml docetaxel and should be used immediately after preparation. However the chemical and physical stability of the premix solution has been demonstrated for 8 hours when stored either between +2°C and +8°C or at room temperature (below 25°C).

4.2 Preparation of the infusion solution

4.2.1 More than one premix vial may be necessary to obtain the required dose for the patient. Based on the required dose for the patient expressed in mg, aseptically withdraw the corresponding premix volume containing 10 mg/ml docetaxel from the appropriate number of premix vials using graduated syringes fitted with a needle. For example, a dose of 140 mg docetaxel would require 14 ml docetaxel premix solution.

4.2.2 Inject the required premix volume into a 250 ml infusion bag or bottle containing either 5% glucose solution or sodium chloride 9 mg/ml (0.9%) solution for infusion. If a dose greater than 200 mg of docetaxel is required, use a larger volume of the infusion vehicle so that a concentration of 0.74 mg/ml docetaxel is not exceeded.

4.2.3 Mix the infusion bag or bottle manually using a rocking motion.

4.2.4 The TAXOTERE infusion solution should be used within 4 hours and should be aseptically administered as a 1-hour infusion under room temperature (below 25°C) and normal lighting conditions.

4.2.5 As with all parenteral products, TAXOTERE premix solution and infusion solution should be visually inspected prior to use, solutions containing a precipitate should be discarded.
5. **DISPOSAL**

All materials that have been utilised for dilution and administration should be disposed of according to standard procedures. Do not throw away any medicines via wastewater. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.
Read all of this leaflet carefully before you start using this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, hospital pharmacist or nurse.
- If you get any side effects talk to your doctor, hospital pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet:

1. What TAXOTERE is and what it is used for
2. What you need to know before you use TAXOTERE
3. How to use TAXOTERE
4. Possible side effects
5. How to store TAXOTERE
6. Contents of the pack and other information

1. **What TAXOTERE is and what it is used for**

The name of this medicine is TAXOTERE. Its common name is docetaxel. Docetaxel is a substance derived from the needles of yew trees. Docetaxel belongs to the group of anti-cancer medicines called taxoids.

TAXOTERE has been prescribed by your doctor for the treatment of breast cancer, special forms of lung cancer (non-small cell lung cancer), prostate cancer, gastric cancer or head and neck cancer:
- For the treatment of advanced breast cancer, TAXOTERE could be administered either alone or in combination with doxorubicin, or trastuzumab, or capecitabine.
- For the treatment of early breast cancer with or without lymph node involvement, TAXOTERE could be administered in combination with doxorubicin and cyclophosphamide.
- For the treatment of lung cancer, TAXOTERE could be administered either alone or in combination with cisplatin.
- For the treatment of prostate cancer, TAXOTERE is administered in combination with prednisone or prednisolone.
- For the treatment of metastatic gastric cancer, TAXOTERE is administered in combination with cisplatin and 5-fluorouracil.
- For the treatment of head and neck cancer, TAXOTERE is administered in combination with cisplatin and 5-fluorouracil.

2. **What you need to know before you use TAXOTERE**

You must not be given TAXOTERE
- if you are allergic (hypersensitive) to docetaxel or any of the other ingredients of TAXOTERE.
- if the number of white blood cells is too low.
- if you have a severe liver disease.
Warnings and precautions
Before each treatment with TAXOTERE, you will have blood tests to check that you have enough blood cells and sufficient liver function to receive TAXOTERE. In case of white blood cells disturbances, you may experience associated fever or infections.

Tell your doctor, hospital pharmacist or nurse if you have vision problems. In case of vision problems, in particular blurred vision, you should immediately have your eyes and vision examined.

Tell your doctor, hospital pharmacist or nurse if you have heart problems.

If you develop acute or worsening problems with your lungs (fever, shortness of breath or cough), please tell your doctor, hospital pharmacist or nurse immediately. Your doctor may stop your treatment immediately.

You will be asked to take premedication consisting of an oral corticosteroid such as dexamethasone, one day prior to TAXOTERE administration and to continue for one or two days after it in order to minimise certain undesirable effects which may occur after the infusion of TAXOTERE in particular allergic reactions and fluid retention (swelling of the hands, feet, legs or weight gain).

During treatment, you may be given other medicines to maintain the number of your blood cells.

TAXOTERE contains alcohol. Discuss with your doctor if you suffer from alcohol dependency, epilepsy or liver impairment. See also section “TAXOTERE contains ethanol (alcohol)” below.

Other medicines and TAXOTERE
Please tell your doctor or hospital pharmacist if you are taking or have recently taken any other medicine, including medicines obtained without a prescription. This is because TAXOTERE or the other medicine may not work as well as expected and you may be more likely to get a side effect.

Pregnancy, breast-feeding and fertility
Ask your doctor for advice before being given any medicine.

TAXOTERE must NOT be administered if you are pregnant unless clearly indicated by your doctor.

You must not become pregnant during treatment with this medicine and must use an effective method of contraception during therapy, because TAXOTERE may be harmful for the unborn baby. If pregnancy occurs during your treatment, you must immediately inform your doctor.

You must not breast-feed while you are treated with TAXOTERE.

If you are a man being treated with TAXOTERE you are advised not to father a child during and up to 6 months after treatment and to seek advice on conservation of sperm prior to treatment because docetaxel may alter male fertility.

Driving and using machines
No studies on the effects on the ability to drive and use machines have been performed.

TAXOTERE contains ethanol (alcohol)
This medicinal product contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 395 mg ethanol anhydrous per vial, equivalent to 10 ml of beer or 4 ml wine per vial.
Harmful for those suffering from alcoholism.
To be taken into account if you are pregnant or if you are breast-feeding women, in children and high-risk groups such as patients with liver disease, or epilepsy.

The amount of alcohol in this medicinal product may have effects on the central nervous system (the part of the nervous system that includes the brain and spinal cord).

The amount of alcohol in this medicinal product may alter the effects of other medicines.

The amount of alcohol in this medicine may impair your ability to drive or use machines.

3. **How to use** TAXOTERE

TAXOTERE will be administered to you by a healthcare professional.

**Usual dose**

The dose will depend on your weight and your general condition. Your doctor will calculate your body surface area in square meters (m²) and will determine the dose you should receive.

**Method and route of administration**

TAXOTERE will be given by infusion into one of your veins (intravenous use). The infusion will last approximately one hour during which you will be in the hospital.

**Frequency of administration**

You should usually receive your infusion once every 3 weeks.

Your doctor may change the dose and frequency of dosing depending on your blood tests, your general condition and your response to TAXOTERE. In particular, please inform your doctor in case of diarrhoea, sores in the mouth, feeling of numbness or pins and needles, fever and give her/him results of your blood tests. Such information will allow her/him to decide whether a dose reduction is needed. If you have any further questions on the use of this medicine, ask your doctor, or hospital pharmacist.

4. **Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Your doctor will discuss these with you and will explain the potential risks and benefits of your treatment.

The most commonly reported adverse reactions of TAXOTERE alone are: decrease in the number of red blood cells or white blood cells, alopecia, nausea, vomiting, sores in the mouth, diarrhoea and tiredness.

The severity of adverse events of TAXOTERE may be increased when TAXOTERE is given in combination with other chemotherapeutic agents.

During the infusion at the hospital the following allergic reactions (may affect more than 1 in 10 people):
- flushing, skin reactions, itching
- chest tightness; difficulty in breathing
- fever or chills
• back pain
• low blood pressure.

More severe reactions may occur.

The hospital staff will monitor your condition closely during treatment. Tell them immediately if you notice any of these effects.

Between infusions of TAXOTERE the following may occur, and the frequency may vary with the combinations of medicines that are received

**Very common** (may affect more than 1 in 10 people):

• infections, decrease in the number of red (anaemia), or white blood cells (which are important in fighting infection) and platelets
• fever: if this happens you must tell your doctor immediately
• allergic reactions as described above
• loss of appetite (anorexia)
• insomnia
• feeling of numbness or pins and needles or pain in the joints or muscles
• headache
• alteration in sense of taste
• inflammation of the eye or increased tearing of the eyes
• swelling caused by faulty lymphatic drainage
• shortness of breath
• nasal drainage; inflammation of the throat and nose; cough
• bleeding from the nose
• sores in the mouth
• stomach upsets including nausea, vomiting and diarrhoea, constipation
• abdominal pain
• indigestion
• hair loss: in most cases normal hair growth should return. In some cases (frequency not known) permanent hair loss has been observed
• redness and swelling of the palms of your hands or soles of your feet which may cause your skin to peel (this may also occur on the arms, face, or body)
• change in the color of your nails, which may detach
• muscle aches and pains; back pain or bone pain
• change or absence of menstrual period
• swelling of the hands, feet, legs
• tiredness; or flu-like symptoms
• weight gain or loss.

**Common** (may affect up to 1 in 10 people):

• oral candidiasis
• dehydration
• dizziness
• hearing impaired
• decrease in blood pressure; irregular or rapid heart beat
• heart failure
• oesophagitis
• dry mouth
• difficulty or painful swallowing
• haemorrhage
• raised liver enzymes (hence the need for regular blood tests).

**Uncommon** (may affect up to 1 in 100 people):

• fainting
• at the injection site, skin reactions, phlebitis (inflammation of the vein) or swelling
• inflammation of the colon, small intestine; intestinal perforation
• blood clots.

**Frequency not known** (cannot be estimated from the available data):
• interstitial lung disease (inflammation of the lungs causing coughing and difficulty breathing. Inflammation of the lungs can also develop when docetaxel therapy is used with radiotherapy)
• pneumonia (infection of the lungs)
• pulmonary fibrosis (scarring and thickening in the lungs with shortness of breath)
• blurred vision due to swelling of the retina within the eye (cystoid macular oedema)
• decrease of the sodium, potassium, magnesium, and/or calcium in your blood (electrolyte balance disorders)
• ventricular arrhythmia or ventricular tachycardia (manifested as irregular and/or rapid heartbeat, severe shortness of breath, dizziness, and/or fainting). Some of these symptoms can be serious. If this happens, you must tell your doctor immediately.

**Reporting of side effects**
If you get any side effects talk to your doctor, hospital pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. **How to store** TAXOTERE

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the outer carton and on the label of the vial after EXP. The expiry date refers to the last day of that month.

Do not store above 25°C.
Store in the original package in order to protect from light.

Use the vial immediately after its opening. If not used immediately, in-use storage times and conditions are the responsibility of the user.

From a microbiological point of view, reconstitution/dilution must take place in controlled and aseptic conditions.

Use immediately the medicine once added into the infusion bag. If not used immediately, in-use storage times and conditions are the responsibility of the user and would normally not be longer than 6 hours below 25°C including the one hour infusion.

Physical and chemical in-use stability of the infusion solution prepared as recommended has been demonstrated in non-PVC bags up to 48 hours when stored between 2 to 8°C.

Docetaxel infusion solution is supersaturated, therefore may crystallize over time. If crystals appear, the solution must no longer be used and shall be discarded.

Do not throw away any medicines via wastewater. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. **Contents of the pack and other information**

**What TAXOTERE contains**
- The active substance is docetaxel (as trihydrate). Each ml of concentrate for solution for infusion contains 20 mg docetaxel.
- The other ingredients are polysorbate 80, ethanol anhydrous (see section 2) and citric acid.

**What TAXOTERE looks like and contents of the pack**
TAXOTERE concentrated for solution for infusion is a pale yellow to brownish-yellow solution. The concentrate is supplied in a 7 ml clear colourless glass vial with a green aluminium seal and a green plastic flip-off cap.

Each box contains one vial of 1 ml concentrate (20 mg docetaxel).

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**Manufacturers**
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This leaflet was last revised in

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site: http://www.ema.europa.eu/.
PREPARATION GUIDE FOR USE WITH TAXOTERE 20 mg/1 ml CONCENTRATE FOR SOLUTION FOR INFUSION

It is important that you read the entire contents of this guide prior to the preparation of the TAXOTERE infusion solution.

Recommendations for the safe handling
Docetaxel is an antineoplastic agent and, as with other potentially toxic compounds, caution should be exercised when handling it and preparing its solutions. The use of gloves is recommended.

If TAXOTERE concentrate or infusion solution should come into contact with skin, wash immediately and thoroughly with soap and water. If it should come into contact with mucous membranes, wash immediately and thoroughly with water.

Preparation of the intravenous administration

Preparation of the infusion solution

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (TAXOTERE 20 mg/1 ml concentrate for solution for infusion, which contains only 1 vial).

TAXOTERE 20 mg/1 ml concentrate for solution for infusion requires NO prior dilution with a solvent and is ready to add to the infusion solution.

- Each vial is for single use and should be used immediately after opening. If not used immediately, in-use storage times and conditions are the responsibility of the user. More than one vial of concentrate for solution for infusion may be necessary to obtain the required dose for the patient. For example, a dose of 140 mg docetaxel would require 7 ml docetaxel concentrate for solution.
- Aseptically withdraw the required amount of concentrate for solution for infusion with a calibrated syringe fitted with a 21G needle.

In TAXOTERE 20 mg/1 ml vial the concentration of docetaxel is 20 mg/ml.

- Then, inject via a single injection (one shot) into a 250 ml infusion bag or bottle containing either 5% glucose solution or sodium chloride 9 mg/ml (0.9%) solution for infusion. If a dose greater than 190 mg of docetaxel is required, use a larger volume of the infusion vehicle so that a concentration of 0.74 mg/ml docetaxel is not exceeded.
- Mix the infusion bag or bottle manually using a rocking motion.
- From a microbiological point of view, reconstitution/dilution must take place in controlled and aseptic conditions and the infusion solution should be used immediately. If not used immediately, in-use storage times and conditions are the responsibility of the user. Once added as recommended into the infusion bag, the docetaxel infusion solution, if stored below 25°C, is stable for 6 hours. It should be used within 6 hours (including the one hour infusion intravenous administration).
  In addition, physical and chemical in-use stability of the infusion solution prepared as recommended has been demonstrated in non-PVC bags up to 48 hours when stored between 2°C to 8°C.
  Docetaxel infusion solution is supersaturated, therefore may crystallize over time. If crystals appear, the solution must no longer be used and shall be discarded.
- As with all parenteral products, infusion solution should be visually inspected prior to use, solutions containing a precipitate should be discarded.

Disposal
All materials that have been utilised for dilution and administration should be disposed of according to standard procedures. Do not throw away any medicines via wastewater. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.
Read all of this leaflet carefully before you start using this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, hospital pharmacist or nurse.
- If you get any side effects talk to your doctor, hospital pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet:
1. What TAXOTERE is and what it is used for
2. What you need to know before you use TAXOTERE
3. How to use TAXOTERE
4. Possible side effects
5. How to store TAXOTERE
6. Contents of the pack and other information

1. **What TAXOTERE is and what it is used for**

The name of this medicine is TAXOTERE. Its common name is docetaxel. Docetaxel is a substance derived from the needles of yew trees. Docetaxel belongs to the group of anti-cancer medicines called taxoids.

TAXOTERE has been prescribed by your doctor for the treatment of breast cancer, special forms of lung cancer (non-small cell lung cancer), prostate cancer, gastric cancer or head and neck cancer:
- For the treatment of advanced breast cancer, TAXOTERE could be administered either alone or in combination with doxorubicin, or trastuzumab, or capecitabine.
- For the treatment of early breast cancer with or without lymph node involvement, TAXOTERE could be administered in combination with doxorubicin and cyclophosphamide.
- For the treatment of lung cancer, TAXOTERE could be administered either alone or in combination with cisplatin.
- For the treatment of prostate cancer, TAXOTERE is administered in combination with prednisone or prednisolone.
- For the treatment of metastatic gastric cancer, TAXOTERE is administered in combination with cisplatin and 5-fluorouracil.
- For the treatment of head and neck cancer, TAXOTERE is administered in combination with cisplatin and 5-fluorouracil.

2. **What you need to know before you use TAXOTERE**

You must not be given TAXOTERE

- if you are allergic (hypersensitive) to docetaxel or any of the other ingredients of TAXOTERE.
- if the number of white blood cells is too low.
- if you have a severe liver disease.
**Warnings and precautions**

Before each treatment with TAXOTERE, you will have blood tests to check that you have enough blood cells and sufficient liver function to receive TAXOTERE. In case of white blood cells disturbances, you may experience associated fever or infections.

Tell your doctor, hospital pharmacist or nurse if you have vision problems. In case of vision problems, in particular blurred vision, you should immediately have your eyes and vision examined.

Tell your doctor, hospital pharmacist or nurse if you have heart problems.

If you develop acute or worsening problems with your lungs (fever, shortness of breath or cough), please tell your doctor, hospital pharmacist or nurse immediately. Your doctor may stop your treatment immediately.

You will be asked to take premedication consisting of an oral corticosteroid such as dexamethasone, one day prior to TAXOTERE administration and to continue for one or two days after it in order to minimise certain undesirable effects which may occur after the infusion of TAXOTERE in particular allergic reactions and fluid retention (swelling of the hands, feet, legs or weight gain).

During treatment, you may be given other medicines to maintain the number of your blood cells.

TAXOTERE contains alcohol. Discuss with your doctor if you suffer from alcohol dependency, epilepsy or liver impairment. See also section “TAXOTERE contains ethanol (alcohol)” below.

**Other medicines and TAXOTERE**

Please tell your doctor or hospital pharmacist if you are taking or have recently taken any other medicine, including medicines obtained without a prescription. This is because TAXOTERE or the other medicine may not work as well as expected and you may be more likely to get a side effect.

**Pregnancy, breast-feeding and fertility**

Ask your doctor for advice before being given any medicine.

TAXOTERE must NOT be administered if you are pregnant unless clearly indicated by your doctor.

You must not become pregnant during treatment with this medicine and must use an effective method of contraception during therapy, because TAXOTERE may be harmful for the unborn baby. If pregnancy occurs during your treatment, you must immediately inform your doctor.

You must not breast-feed while you are treated with TAXOTERE.

If you are a man being treated with TAXOTERE you are advised not to father a child during and up to 6 months after treatment and to seek advice on conservation of sperm prior to treatment because docetaxel may alter male fertility.

**Driving and using machines**

No studies on the effects on the ability to drive and use machines have been performed.

**TAXOTERE contains ethanol (alcohol)**

This medicinal product contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 1.58 g ethanol anhydrous per vial, equivalent to 40 ml of beer or 17 ml wine per vial.

Harmful for those suffering from alcoholism.
To be taken into account if you are pregnant or if you are breast-feeding women, in children and high-risk groups such as patients with liver disease, or epilepsy.

The amount of alcohol in this medicinal product may have effects on the central nervous system (the part of the nervous system that includes the brain and spinal cord).

The amount of alcohol in this medicinal product may alter the effects of other medicines.

The amount of alcohol in this medicine may impair your ability to drive or use machines.

3. **How to use TAXOTERE**

TAXOTERE will be administered to you by a healthcare professional.

**Usual dose**

The dose will depend on your weight and your general condition. Your doctor will calculate your body surface area in square meters (m²) and will determine the dose you should receive.

**Method and route of administration**

TAXOTERE will be given by infusion into one of your veins (intravenous use). The infusion will last approximately one hour during which you will be in the hospital.

**Frequency of administration**

You should usually receive your infusion once every 3 weeks.

Your doctor may change the dose and frequency of dosing depending on your blood tests, your general condition and your response to TAXOTERE. In particular, please inform your doctor in case of diarrhoea, sores in the mouth, feeling of numbness or pins and needles, fever and give her/him results of your blood tests. Such information will allow her/him to decide whether a dose reduction is needed. If you have any further questions on the use of this medicine, ask your doctor, or hospital pharmacist.

4. **Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Your doctor will discuss these with you and will explain the potential risks and benefits of your treatment.

The most commonly reported adverse reactions of TAXOTERE alone are: decrease in the number of red blood cells or white blood cells, alopecia, nausea, vomiting, sores in the mouth, diarrhoea and tiredness.

The severity of adverse events of TAXOTERE may be increased when TAXOTERE is given in combination with other chemotherapeutic agents.

During the infusion at the hospital the following allergic reactions (may affect more than 1 in 10 people):
- flushing, skin reactions, itching
- chest tightness; difficulty in breathing
- fever or chills
- back pain
• low blood pressure.
More severe reactions may occur.

The hospital staff will monitor your condition closely during treatment. Tell them immediately if you notice any of these effects.

Between infusions of TAXOTERE the following may occur, and the frequency may vary with the combinations of medicines that are received

**Very common** (may affect more than 1 in 10 people):
• infections, decrease in the number of red (anaemia), or white blood cells (which are important in fighting infection) and platelets
• fever: if this happens you must tell your doctor immediately
• allergic reactions as described above
• loss of appetite (anorexia)
• insomnia
• feeling of numbness or pins and needles or pain in the joints or muscles
• headache
• alteration in sense of taste
• inflammation of the eye or increased tearing of the eyes
• swelling caused by faulty lymphatic drainage
• shortness of breath
• nasal drainage; inflammation of the throat and nose; cough
• bleeding from the nose
• sores in the mouth
• stomach upsets including nausea, vomiting and diarrhoea, constipation
• abdominal pain
• indigestion
• hair loss: in most cases normal hair growth should return. In some cases (frequency not known) permanent hair loss has been observed
• redness and swelling of the palms of your hands or soles of your feet which may cause your skin to peel (this may also occur on the arms, face, or body)
• change in the color of your nails, which may detach
• muscle aches and pains; back pain or bone pain
• change or absence of menstrual period
• swelling of the hands, feet, legs
• tiredness; or flu-like symptoms
• weight gain or loss.

**Common** (may affect up to 1 in 10 people):
• oral candidiasis
• dehydration
• dizziness
• hearing impaired
• decrease in blood pressure; irregular or rapid heart beat
• heart failure
• oesophagitis
• dry mouth
• difficulty or painful swallowing
• haemorrhage
• raised liver enzymes (hence the need for regular blood tests).

**Uncommon** (may affect up to 1 in 100 people):
• fainting
• at the injection site, skin reactions, phlebitis (inflammation of the vein) or swelling
• inflammation of the colon, small intestine; intestinal perforation
• blood clots.

**Frequency not known** (cannot be estimated from the available data):
• interstitial lung disease (inflammation of the lungs causing coughing and difficulty breathing. Inflammation of the lungs can also develop when docetaxel therapy is used with radiotherapy)
• pneumonia (infection of the lungs)
• pulmonary fibrosis (scarring and thickening in the lungs with shortness of breath)
• blurred vision due to swelling of the retina within the eye (cystoid macular oedema)
• decrease of the sodium, potassium, magnesium, and/or calcium in your blood (electrolyte balance disorders)
• ventricular arrhythmia or ventricular tachycardia (manifested as irregular and/or rapid heartbeat, severe shortness of breath, dizziness, and/or fainting). Some of these symptoms can be serious. If this happens, you must tell your doctor immediately.

**Reporting of adverse effects**
If you get any side effects talk to your doctor, hospital pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. **How to store** TAXOTERE

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the outer carton and on the label of the vial after EXP. The expiry date refers to the last day of that month.

Do not store above 25°C.
Store in the original package in order to protect from light.

Use the vial immediately after its opening. If not used immediately, in-use storage times and conditions are the responsibility of the user.

From a microbiological point of view, reconstitution/dilution must take place in controlled and aseptic conditions.

Use immediately the medicine once added into the infusion bag. If not used immediately, in-use storage times and conditions are the responsibility of the user and would normally not be longer than 6 hours below 25°C including the one hour infusion.

Physical and chemical in-use stability of the infusion solution prepared as recommended has been demonstrated in non-PVC bags up to 48 hours when stored between 2 to 8°C.

Docetaxel infusion solution is supersaturated, therefore may cristallize over time. If crystals appear, the solution must no longer be used and shall be discarded.

Do not throw away any medicines via wastewater. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. **Contents of the pack and other information**

**What TAXOTERE contains**
- The active substance is docetaxel (as trihydrate). Each ml of concentrate for solution for infusion contains 20 mg docetaxel.
- The other ingredients are polysorbate 80, ethanol anhydrous (see section 2) and citric acid.

What TAXOTERE looks like and contents of the pack
TAXOTERE concentrate for solution for infusion is a pale yellow to brownish-yellow solution. The concentrate is supplied in a 7 ml clear colourless glass vial with a magenta aluminium seal and a magenta plastic flip-off cap.

Each box contains one vial of 4 ml concentrate (80 mg docetaxel).

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**This leaflet was last revised in**

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site:
The following information is intended for healthcare professionals only:

PREPARATION GUIDE FOR USE WITH TAXOTERE 80 mg/4 ml CONCENTRATE FOR SOLUTION FOR INFUSION

It is important that you read the entire contents of this guide prior to the preparation of the TAXOTERE infusion solution.

Recommendations for the safe handling
Docetaxel is an antineoplastic agent and, as with other potentially toxic compounds, caution should be exercised when handling it and preparing its solutions. The use of gloves is recommended.

If TAXOTERE concentrate or infusion solution should come into contact with skin, wash immediately and thoroughly with soap and water. If it should come into contact with mucous membranes, wash immediately and thoroughly with water.

Preparation of the intravenous administration

Preparation of the infusion solution
DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (TAXOTERE 80 mg/4 ml concentrate for solution for infusion, which contains only 1 vial).

TAXOTERE 80 mg/4 ml concentrate for solution for infusion requires NO prior dilution with a solvent and is ready to add to the infusion solution.
• Each vial is for single use and should be used immediately after opening. If not used immediately, in-use storage times and conditions are the responsibility of the user. More than one vial of concentrate for solution for infusion may be necessary to obtain the required dose for the patient. For example, a dose of 140 mg docetaxel would require 7 ml docetaxel concentrate for solution.
• Aseptically withdraw the required amount of concentrate for solution for infusion with a calibrated syringe fitted with a 21G needle.

In TAXOTERE 80 mg/4 ml vial the concentration of docetaxel is 20 mg/ml.
• Then, inject via a single injection (one shot) into a 250 ml infusion bag or bottle containing either 5% glucose solution or sodium chloride 9 mg/ml (0.9%) solution for infusion. If a dose greater than 190 mg of docetaxel is required, use a larger volume of the infusion vehicle so that a concentration of 0.74 mg/ml docetaxel is not exceeded.
• Mix the infusion bag or bottle manually using a rocking motion.
• From a microbiological point of view, reconstitution/dilution must take place in controlled and aseptic conditions and the infusion solution should be used immediately. If not used immediately, in-use storage times and conditions are the responsibility of the user. Once added as recommended into the infusion bag, the docetaxel infusion solution, if stored below 25°C, is stable for 6 hours. It should be used within 6 hours (including the one hour infusion intravenous administration).
In addition, physical and chemical in-use stability of the infusion solution prepared as recommended has been demonstrated in non-PVC bags up to 48 hours when stored between 2°C to 8°C.
Docetaxel infusion solution is supersaturated, therefore may crystallize over time. If crystals appear, the solution must no longer be used and shall be discarded.
• As with all parenteral products, infusion solution should be visually inspected prior to use, solutions containing a precipitate should be discarded.

Disposal
All materials that have been utilised for dilution and administration should be disposed of according to standard procedures. Do not throw away any medicines via wastewater. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.
Read all of this leaflet carefully before you start using this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, hospital pharmacist or nurse.
- If you get any side effects talk to your doctor, hospital pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet:

1. What TAXOTERE is and what it is used for
2. What you need to know before you use TAXOTERE
3. How to use TAXOTERE
4. Possible side effects
5. How to store TAXOTERE
6. Contents of the pack and other information

1. **What TAXOTERE is and what it is used for**

The name of this medicine is TAXOTERE. Its common name is docetaxel. Docetaxel is a substance derived from the needles of yew trees. Docetaxel belongs to the group of anti-cancer medicines called taxoids.

TAXOTERE has been prescribed by your doctor for the treatment of breast cancer, special forms of lung cancer (non-small cell lung cancer), prostate cancer, gastric cancer or head and neck cancer:
- For the treatment of advanced breast cancer, TAXOTERE could be administered either alone or in combination with doxorubicin, or trastuzumab, or capecitabine.
- For the treatment of early breast cancer with or without lymph node involvement, TAXOTERE could be administered in combination with doxorubicin and cyclophosphamide.
- For the treatment of lung cancer, TAXOTERE could be administered either alone or in combination with cisplatin.
- For the treatment of prostate cancer, TAXOTERE is administered in combination with prednisone or prednisolone.
- For the treatment of metastatic gastric cancer, TAXOTERE is administered in combination with cisplatin and 5-fluorouracil.
- For the treatment of head and neck cancer, TAXOTERE is administered in combination with cisplatin and 5-fluorouracil.

2. **What you need to know before you use TAXOTERE**

You must not be given TAXOTERE

- if you are allergic (hypersensitive) to docetaxel or any of the other ingredients of TAXOTERE.
- if the number of white blood cells is too low.
- if you have a severe liver disease.
Warnings and precautions

Before each treatment with TAXOTERE, you will have blood tests to check that you have enough blood cells and sufficient liver function to receive TAXOTERE. In case of white blood cells disturbances, you may experience associated fever or infections.

Tell your doctor, hospital pharmacist or nurse if you have vision problems. In case of vision problems, in particular blurred vision, you should immediately have your eyes and vision examined.

Tell your doctor, hospital pharmacist or nurse if you have heart problems.

If you develop acute or worsening problems with your lungs (fever, shortness of breath or cough), please tell your doctor, hospital pharmacist or nurse immediately. Your doctor may stop your treatment immediately.

You will be asked to take premedication consisting of an oral corticosteroid such as dexamethasone, one day prior to TAXOTERE administration and to continue for one or two days after it in order to minimise certain undesirable effects which may occur after the infusion of TAXOTERE in particular allergic reactions and fluid retention (swelling of the hands, feet, legs or weight gain).

During treatment, you may be given other medicines to maintain the number of your blood cells.

TAXOTERE contains alcohol. Discuss with your doctor if you suffer from alcohol dependency, epilepsy or liver impairment. See also section “TAXOTERE contains ethanol (alcohol)” below.

Other medicines and TAXOTERE

Please tell your doctor or hospital pharmacist if you are taking or have recently taken any other medicine, including medicines obtained without a prescription. This is because TAXOTERE or the other medicine may not work as well as expected and you may be more likely to get a side effect.

Pregnancy, breast-feeding and fertility

Ask your doctor for advice before being given any medicine.

TAXOTERE must NOT be administered if you are pregnant unless clearly indicated by your doctor.

You must not become pregnant during treatment with this medicine and must use an effective method of contraception during therapy, because TAXOTERE may be harmful for the unborn baby. If pregnancy occurs during your treatment, you must immediately inform your doctor.

You must not breast-feed while you are treated with TAXOTERE.

If you are a man being treated with TAXOTERE you are advised not to father a child during and up to 6 months after treatment and to seek advice on conservation of sperm prior to treatment because docetaxel may alter male fertility.

Driving and using machines

No studies on the effects on the ability to drive and use machines have been performed.

TAXOTERE contains ethanol (alcohol)

This medicinal product contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 3.16 g ethanol anhydrous per vial, equivalent to 80 ml of beer or 33 ml wine per vial.
Harmful for those suffering from alcoholism. 
To be taken into account if you are pregnant or if you are breast-feeding women, in children and 
high-risk groups such as patients with liver disease, or epilepsy.

The amount of alcohol in this medicinal product may have effects on the central nervous system (the 
part of the nervous system that includes the brain and spinal cord).

The amount of alcohol in this medicinal product may alter the effects of other medicines.

The amount of alcohol in this medicine may impair your ability to drive or use machines.

3. **How to use TAXOTERE**

TAXOTERE will be administered to you by a healthcare professional.

**Usual dose**

The dose will depend on your weight and your general condition. Your doctor will calculate your body 
surface area in square meters (m²) and will determine the dose you should receive.

**Method and route of administration**

TAXOTERE will be given by infusion into one of your veins (intravenous use). The infusion will last 
approximately one hour during which you will be in the hospital.

**Frequency of administration**

You should usually receive your infusion once every 3 weeks.

Your doctor may change the dose and frequency of dosing depending on your blood tests, your general 
condition and your response to TAXOTERE. In particular, please inform your doctor in case of 
diarrhoea, sores in the mouth, feeling of numbness or pins and needles, fever and give her/him results 
of your blood tests. Such information will allow her/him to decide whether a dose reduction is needed. 
If you have any further questions on the use of this medicine, ask your doctor, or hospital pharmacists.

4. **Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Your doctor will discuss these with you and will explain the potential risks and benefits of your 
treatment.

The most commonly reported adverse reactions of TAXOTERE alone are: decrease in the number of 
red blood cells or white blood cells, alopecia, nausea, vomiting, sores in the mouth, diarrhoea and 
tiredness.

The severity of adverse events of TAXOTERE may be increased when TAXOTERE is given in 
combination with other chemotherapeutic agents.

During the infusion at the hospital the following allergic reactions (may affect more than 1 in 10 people):
- flushing, skin reactions, itching
- chest tightness; difficulty in breathing
- fever or chills
• back pain
• low blood pressure.
More severe reactions may occur.

The hospital staff will monitor your condition closely during treatment. Tell them immediately if you notice any of these effects.

Between infusions of TAXOTERE the following may occur, and the frequency may vary with the combinations of medicines that are received

**Very common** (may affect more than 1 in 10 people):
• infections, decrease in the number of red (anaemia), or white blood cells (which are important in fighting infection) and platelets
• fever: if this happens you must tell your doctor immediately
• allergic reactions as described above
• loss of appetite (anorexia)
• insomnia
• feeling of numbness or pins and needles or pain in the joints or muscles
• headache
• alteration in sense of taste
• inflammation of the eye or increased tearing of the eyes
• swelling caused by faulty lymphatic drainage
• shortness of breath
• nasal drainage; inflammation of the throat and nose; cough
• bleeding from the nose
• sores in the mouth
• stomach upsets including nausea, vomiting and diarrhoea, constipation
• abdominal pain
• indigestion
• hair loss: in most cases normal hair growth should return. In some cases (frequency not known) permanent hair loss has been observed
• redness and swelling of the palms of your hands or soles of your feet which may cause your skin to peel (this may also occur on the arms, face, or body)
• change in the color of your nails, which may detach
• muscle aches and pains; back pain or bone pain
• change or absence of menstrual period
• swelling of the hands, feet, legs
• tiredness; or flu-like symptoms
• weight gain or loss.

**Common** (may affect up to 1 in 10 people):
• oral candidiasis
• dehydration
• dizziness
• hearing impaired
• decrease in blood pressure; irregular or rapid heart beat
• heart failure
• oesophagitis
• dry mouth
• difficulty or painful swallowing
• haemorrhage
• raised liver enzymes (hence the need for regular blood tests).

**Uncommon** (may affect up to 1 in 100 people):
• fainting
• at the injection site, skin reactions, phlebitis (inflammation of the vein) or swelling
• inflammation of the colon, small intestine; intestinal perforation
• blood clots.

**Frequency not known** (cannot be estimated from the available data):
• interstitial lung disease (inflammation of the lungs causing coughing and difficulty breathing. Inflammation of the lungs can also develop when docetaxel therapy is used with radiotherapy)
• pneumonia (infection of the lungs)
• pulmonary fibrosis (scarring and thickening in the lungs with shortness of breath)
• blurred vision due to swelling of the retina within the eye (cystoid macular oedema)
• decrease of the sodium, potassium, magnesium, and/or calcium in your blood (electrolyte balance disorders)
• ventricular arrhythmia or ventricular tachycardia (manifested as irregular and/or rapid heartbeat, severe shortness of breath, dizziness, and/or fainting). Some of these symptoms can be serious. If this happens, you must tell your doctor immediately.

**Reporting of side effects**
If you get any side effects talk to your doctor, hospital pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. **How to store TAXOTERE**

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the outer carton and on the label of the vial after EXP. The expiry date refers to the last day of that month.

Do not store above 25°C.
Store in the original package in order to protect from light.

Use the vial immediately after its opening. If not used immediately, in-use storage times and conditions are the responsibility of the user.

From a microbiological point of view, reconstitution/dilution must take place in controlled and aseptic conditions.

Use immediately the medicine once added into the infusion bag. If not used immediately, in-use storage times and conditions are the responsibility of the user and would normally not be longer than 6 hours below 25°C including the one hour infusion.

Physical and chemical in-use stability of the infusion solution prepared as recommended has been demonstrated in non-PVC bags up to 48 hours when stored between 2 to 8°C.

Docetaxel infusion solution is supersaturated, therefore may crystallize over time. If crystals appear, the solution must no longer be used and shall be discarded.

Do not throw away any medicines via wastewater. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. **Contents of the pack and other information**

What TAXOTERE contains
- The active substance is docetaxel (as trihydrate). Each ml of concentrate for solution for infusion contains 20 mg docetaxel.
- The other ingredients are polysorbate 80, ethanol anhydrous (see section 2) and citric acid.

What TAXOTERE looks like and contents of the pack
TAXOTERE concentrate for solution for infusion is a pale yellow to brownish-yellow solution. The concentrate is supplied in a 15 ml clear colourless glass vial with a blue aluminium seal and a blue plastic flip-off cap.

Each box contains one vial of 8 ml concentrate (160 mg docetaxel).

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Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site:
The following information is intended for healthcare professionals only:

PREPARATION GUIDE FOR USE WITH TAXOTERE 160 mg/8 ml CONCENTRATE FOR SOLUTION FOR INFUSION

It is important that you read the entire contents of this guide prior to the preparation of the TAXOTERE infusion solution.

Recommendations for the safe handling
Docetaxel is an antineoplastic agent and, as with other potentially toxic compounds, caution should be exercised when handling it and preparing its solutions. The use of gloves is recommended.

If TAXOTERE concentrate or infusion solution should come into contact with skin, wash immediately and thoroughly with soap and water. If it should come into contact with mucous membranes, wash immediately and thoroughly with water.

Preparation of the intravenous administration

Preparation of the infusion solution
DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (TAXOTERE 160 mg/8 ml concentrate for solution for infusion, which contains only 1 vial).

TAXOTERE 160 mg/8 ml concentrate for solution for infusion requires NO prior dilution with a solvent and is ready to add to the infusion solution.

- Each vial is for single use and should be used immediately after opening. If not used immediately, in-use storage times and conditions are the responsibility of the user. More than one vial of concentrate for solution for infusion may be necessary to obtain the required dose for the patient. For example, a dose of 140 mg docetaxel would require 7 ml docetaxel concentrate for solution.
- Aseptically withdraw the required amount of concentrate for solution for infusion with a calibrated syringe fitted with a 21G needle.

In TAXOTERE 160 mg/8 ml vial the concentration of docetaxel is 20 mg/ml.

- Then, inject via a single injection (one shot) into a 250 ml infusion bag or bottle containing either 5% glucose solution or sodium chloride 9 mg/ml (0.9%) solution for infusion. If a dose greater than 190 mg of docetaxel is required, use a larger volume of the infusion vehicle so that a concentration of 0.74 mg/ml docetaxel is not exceeded.
- Mix the infusion bag or bottle manually using a rocking motion.
- From a microbiological point of view, reconstitution/dilution must take place in controlled and aseptic conditions and the infusion solution should be used immediately. If not used immediately, in-use storage times and conditions are the responsibility of the user. Once added as recommended into the infusion bag, the docetaxel infusion solution, if stored below 25°C, is stable for 6 hours. It should be used within 6 hours (including the one hour infusion intravenous administration).
  In addition, physical and chemical in-use stability of the infusion solution prepared as recommended has been demonstrated in non-PVC bags up to 48 hours when stored between 2°C to 8°C.
  Docetaxel infusion solution is supersaturated, therefore may crystallize over time. If crystals appear, the solution must no longer be used and shall be discarded.
- As with all parenteral products, infusion solution should be visually inspected prior to use, solutions containing a precipitate should be discarded.

Disposal
All materials that have been utilised for dilution and administration should be disposed of according to standard procedures. Do not throw away any medicines via wastewater. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.