ANNEX I
SUMMARY OF PRODUCT CHARACTERISTICS

Wedicinal product

1. NAME OF THE MEDICINAL PRODUCT

Taxespira 20 mg/1 ml concentrate for solution for infusion Taxespira 80 mg/4 ml concentrate for solution for infusion Taxespira 120 mg/6 ml concentrate for solution for infusion Taxespira 140 mg/7 ml concentrate for solution for infusion Taxespira 160 mg/8 ml concentrate for solution for infusion

2. QUALITATIVE AND QUANTITATIVE COMPOSITION der authorised

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

20 mg/1 ml

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

80 mg/4 ml

One vial of 4 ml concentration contains 80 mg docetaxel.

120mg/6 ml

One vial of 6 ml concentration contains 120 mg docetaxel.

140mg/7 ml

One vial of 7 ml concentration contains 140 mg docetaxel.

160mg/8 ml

One vial of 8 ml concentration contains 160 mg docetaxe

Excipient with known effect

20 mg/1 ml

Each 1 ml vial of concentrate contains 0. 5 ml of ethanol anhydrous (395 mg).

80 mg/4 ml

Each 4 ml vial of concentrate contains 2 ml of ethanol anhydrous (1580 mg).

120mg/6 ml

Each 6 ml vial of concentrate contains 3 ml of ethanol anhydrous (2370 mg).

Each 7 ml vial of concentrate contains 3.5 ml of ethanol anhydrous (2765 mg).

Each 8 ml vial of concentrate contains 4 ml of ethanol anhydrous (3160 mg).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Concentrate for solution for infusion.

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

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Breast cancer

Taxespira 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).

Taxespira 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.

Taxespira 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.

Taxespira 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.

Taxespira 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

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

Taxespira 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

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

Gastric adenocarcinoma

Taxespira 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

Taxespira 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).

Posology

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).

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).

Prophylactic G-CSF may be used to mitigate the risk of haematological toxicities.

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/m 2 numediately followed by cisplatin 75 mg/m 2 over 30-60 minutes. For treatment after failure of prior platinum-based chemotherapy, the recommended dose is 75 mg/m 2 as a single agent.

<u>Prostate cance</u>i

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 >1,500cells/mm³ and platelets recover to a level >100,000 cells/mm³. Treatment must be discontinued 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):

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

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 $>1.5 \times ULN$ associated with alkaline phosphatase $>2.5 \times ULN$, and bilirubin $>1 \times ULN$; 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 Taxespira in nasopharyngeal carcinoma in children aged 1 month to less than 18 years have not yet been established.

There is no relevant use of Taxespira in the paediatric population for the indication of 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.

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

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).

Method of administration

For instructions on preparation and administration of the product, see section 6.6.

Hypersensitivity to the active substance or to any of the excipients listed in section 64.

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

Patients with severe 1:...

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

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/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).

Gastrointestinal reactions

Caution is recommended for patients with neutropenia, particularly at risk for developing gastrointestinal complications. Although majority of cases occurred during the first or second cycle of docetaxel containing regimen, enterocolitis could develop at any time, and could lead to death as early as on the first day of onset. Patients should be closely monitored for early manifestations of serious gastrointestinal toxicity (see sections 4.2, 4.4 Haematology, 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. Patients who have previously experienced a hypersensitivity reaction to paclitaxel may be at risk to develop hypersensitivity reaction to docetaxel, including more severe hypersensitivity reaction. These patients should be closely monitored during initiation of docetaxel therapy.

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 $>1.5 \times ULN$

associated with alkaline phosphatase $>2.5 \times ULN$, and bilirubin $>1 \times ULN$; 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.

Eve 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).

Elderly 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 \geq 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 \geq 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 $\geq 10\%$ 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

20mg/1 ml:

This medicinal product contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 395 mg ethanol anhydrous per 1 ml vial. This is equivalent to 10 ml of beer or 4 ml of wine.

80mg/4 ml:

This medicinal product contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 1580 mg ethanol anhydrous per 4 ml vial. This is equivalent to 40 ml of beer or 17 ml of wine.

120mg/6 ml

This medicinal product contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 2370 mg ethanol anhydrous per 6 ml vial. This is equivalent to 60 ml of beer or 25 ml of wine.

140mg/7 ml:

This medicinal product contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 2765 mg ethanol anhydrous per 7 ml vial. This is equivalent to 70 ml of beer or 29 ml of wine.

160mg/8 ml:

This medicinal product contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 3160 mg ethanol anhydrous per 8 ml vial. This is equivalent to 80 ml of beer or 33 ml of wine.

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.

4.5 Interaction with other medicinal products and other forms of interaction

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

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 alcohol in this medicinal product and the side effects of the product may impair the ability to drive or use machines (see sections 4.4 and 4.8). Therefore, patients should be warned of the potential impact of the amount of alcohol and the side effects of this medicinal product on the ability to drive or use machines, and be advised not to drive or use machines if they experience these side effects during treatment.

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:

- 1,312 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).
- 1,276 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 ($\geq 1/10$), common ($\geq 1/100$ to <1/10); uncommon ($\geq 1/1,000$ to <1/100); rare (<1/10,000); 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 $\ge 10\%$ 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 paraesthesia, 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 Taxespira 100 mg/m² single agent

MedDRA system	Very common adverse	Common adverse	Uncommon adverse
organ classes	reactions	reactions	reactions
Infections and	Infections (G3/4: 5.7%;	Infection associated	
infestations	including sepsis and	with G4 neutropenia	
	pneumonia, fatal in	(G3/4: 4.6%)	
	1.7%)		
Blood and lymphatic	Neutropenia (G4:	Thrombocytopenia	
system disorders	76.4%); Anaemia	(G4: 0.2%)	
	(G3/4: 8.9%); Febrile		
	neutropenia		
Immune system	Hypersensitivity (G3/4:		
disorders	5.3%)		
Metabolism and	Anorexia		
nutrition disorders			
Nervous system	Peripheral sensory		
disorders	neuropathy (G3: 4.1%);		
	Peripheral motor		
	neuropathy (G3/4: 4%);		
	Dysgeusia (severe:		

MedDRA system organ classes	Very common adverse reactions	Common adverse reactions	Uncommon adverse reactions
organ classes	0.07%)	Teactions	Teactions
Cardiac disorders	0.07,70)	Arrhythmia (G3/4: 0.7%)	Cardiac failure
Vascular disorders		Hypotension; Hypertension; Haemorrhage	
Respiratory, thoracic and mediastinal disorders	Dyspnoea (severe: 2.7%)		
Gastrointestinal disorders	Stomatitis (G3/4: 5.3%); Diarrhoea (G3/4: 4%); Nausea (G3/4: 4%); Vomiting (G3/4: 3%)	Constipation (severe: 0.2%); Abdominal pain (severe: 1%); Gastrointestinal haemorrhage (severe: 0.3%)	Oesophagitis (severe: 0.4%)
Skin and subcutaneous tissue disorders	Alopecia; Skin reaction (G3/4: 5.9%); Nail disorders (severe: 2.6%)		
Musculoskeletal and connective tissue disorders	Myalgia (severe: 1.4%)	Arthralgia	
General disorders and administration site conditions	Fluid retention (severe: 6.5%); Asthenia (severe: 11.2%); Pain	Infusion site reaction; Non-cardiac chest pain (severe: 0.4%)	
Investigations	, john	G3/4 Blood bilirubin increased (<5%); G3/4 Blood alkaline phosphatase increased (<4%); G3/4 AST	
	900	increased (<3%); G3/4 ALT increased (<2%)	

Description of selected adverse reactions in breast cancer for Taxespira 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 Taxespira 75 mg/m² single agent

MedDRA system organ classes	Very common adverse reactions	Common adverse reactions
Infections and infestations	Infections (G3/4: 5%)	
Blood and lymphatic system	Neutropenia (G4: 54.2%); Anaemia	Febrile neutropenia
disorders	(G3/4: 10.8%); Thrombocytopenia	_
	(G4: 1.7%)	
Immune system disorders		Hypersensitivity (no severe)
Metabolism and nutrition	Anorexia	
disorders		
Nervous system disorders	Peripheral sensory neuropathy	Peripheral motor neuropathy
	(G3/4: 0.8%)	(G3/4: 2.5%)
Cardiac disorders		Arrhythmia (no severe)
Vascular disorders		Hypotension
Gastrointestinal disorders	Nausea (G3/4: 3.3%);	Constipation • Constipation
	Stomatitis (G3/4: 1.7%); Vomiting	
	(G3/4: 0.8%); Diarrhoea (G3/4:	-0'
	1.7%)	
Skin and subcutaneous tissue	Alopecia;	Nail disorders (severe: 0.8%)
disorders	Skin reaction (G3/4: 0.8%)	~
Musculoskeletal and connective		Myalgia
tissue disorders		
General disorders and	Asthenia (severe: 12.4%);	
administration site conditions	Fluid retention (severe: 0.8%); Pain	
Investigations		G3/4 Blood bilirubin
	101	increased (<2%)

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

MedDRA system	Very common adverse	Common adverse	Uncommon adverse
organ classes	reactions	reactions	reactions
Infections and	Infection (G3/4: 7.8%)		
infestations	40		
Blood and lymphatic	Neutropenia (G4:		
system disorders	91.7%); Anaemia		
-9	(G3/4: 9.4%); Febrile		
	neutropenia;		
	Thrombocytopenia		
1,0	(G4: 0.8%)		
Immune system		Hypersensitivity (G3/4:	
disorders		1.2%)	
Metabolism and		Anorexia	
nutrition disorders			
Nervous system	Peripheral sensory	Peripheral motor	
disorders	neuropathy (G3: 0.4%)	neuropathy (G3/4:	
		0.4%)	
Cardiac disorders		Cardiac failure;	
		Arrhythmia (no severe)	
Vascular disorders			Hypotension
Gastrointestinal	Nausea (G3/4: 5%);		
disorders	Stomatitis (G3/4:		
	7.8%); Diarrhoea		
	(G3/4: 6.2%);		
	Vomiting (G3/4: 5%);		

	Constipation		
Skin and subcutaneous	Alopecia; Nail		
tissue disorders	disorders (severe:		
	0.4%); Skin reaction		
	(no severe)		
Musculoskeletal and		Myalgia	
connective tissue			
disorders			
General disorders and	Asthenia (severe:	Infusion site reaction	
administration site	8.1%); Fluid retention		
conditions	(severe: 1.2%);		
	Pain		
Investigations		G3/4 Blood bilirubin	G3/4 AST increased
		increased (<2.5%);	(<1%);
		G3/4 Blood alkaline	G3/4 ALT increased
		phosphatase increased	(<1%)
		(<2.5%)	

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

MedDRA system	Very common	Common adverse	Uncommon adverse
organ classes	adverse reactions	reactions	reactions
Infections and infestations	Infection (G3/4: 5.7%)	10/	
Blood and lymphatic system disorders	Neutropenia (G4: 51.5%); Anaemia (G3/4: 6.9%); Thrombocytopenia	Febrile neutropenia	
Immune system disorders	(G4: 0.5%) Hypersensitivity (G3/4: 2.5%)		
Metabolism and nutrition disorders	Anorexia		
Nervous system disorders	Peripheral sensory neuropathy (G3: 3.7%); Peripheral motor neuropathy (G3/4: 2%)		
Cardiac disorders		Arrhythmia (G3/4: 0.7%)	Cardiac failure
Vascular disorders		Hypotension (G3/4: 0.7%)	
Gastrointestinal disorders	Nausea (G3/4: 9.6%); Vomiting (G3/4: 7.6%); Diarrhoea (G3/4: 6.4%); Stomatitis (G3/4: 2%)	Constipation	
Skin and subcutaneous tissue disorders	Alopecia; Nail disorders (severe: 0.7%); Skin reaction (G3/4:		

	0.2%)		
Musculoskeletal and	Myalgia (severe:		
connective tissue	0.5%)		
disorders			
General disorders and	Asthenia (severe:	Infusion site	
administration site	9.9%); Fluid retention	reaction;	
conditions	(severe: 0.7%);	Pain	
	Fever (G3/4: 1.2%)		
Investigations		G3/4 Blood bilirubin	G3/4 AST increased (0.5%);
		increased (2.1%);	G3/4 Blood alkaline
		G3/4 ALT increased	phosphatase increased (0.3%)
		(1.3%)	

<u>Tabulated list of adverse reactions in breast cancer for Taxespira 100 mg/m² in combination with trastuzumab</u>

MedDRA system organ classes	Very common adverse reactions	Common adverse reactions
Blood and lymphatic system	Neutropenia (G3/4: 32%); Febrile	
disorders	neutropenia (includes neutropenia	
	associated with fever and antibiotic	2
	use) or neutropenic sepsis	
Metabolism and nutrition	Anorexia	
disorders		
Psychiatric disorders	Insomnia	
Nervous system disorders	Paresthesia; Headache; Dysgeusia;	
	Hypoaesthesia	
Eye disorders	Lacrimation increased;	
	Conjunctivitis	
Cardiac disorders		Cardiac failure
Vascular disorders	Lymphoedema	
Respiratory, thoracic and	Epistaxis, Pharyngolaryngeal pain;	
mediastinal disorders	Nasopharyngitis; Dyspnoea;	
	Cough; Rhinorrhoea	
Gastrointestinal disorders	Nausea; Diarrhoea; Vomiting;	
0	Constipation; Stomatitis;	
1 4	Dyspepsia; Abdominal pain	
Skin and subcutaneous tissue	Alopecia; Erythema; Rash; Nail	
disorders	disorders	
Musculoskeletal and connective	Myalgia; Arthralgia; Pain in	
tissue disorders	extremity; Bone pain; Back pain	
General disorders and	Asthenia; Oedema peripheral;	Lethargy
administration site conditions	Pyrexia; Fatigue; Mucosal	
	inflammation; Pain; Influenza like	
14	illness; Chest pain; Chills	
Investigations	Weight increased	

 $\underline{Description\ of\ selected\ adverse\ reactions\ in\ breast\ cancer\ for\ Taxespira\ 100\ mg/m^2\ in\ combination}}\\ \underline{with\ trastuzumab}$

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).

<u>Tabulated list of adverse reactions in breast cancer for Taxespira 75 mg/m² in combination with capecitabine</u>

MedDRA system organ classes	Very common adverse reactions	Common adverse reactions
Infections and infestations		Oral candidiasis (G3/4:
		<1%)
Blood and lymphatic system	Neutropenia (G3/4: 63%); Anaemia	Thrombocytopenia (G3/4:
disorders	(G3/4: 10%)	3%)
Metabolism and nutrition	Anorexia (G3/4: 1%); Decreased	Dehydration (G3/4: 2%)
disorders	appetite	
Nervous system disorders	Dysgeusia (G3/4: <1%);	Dizziness; Headache (G3/4:
	Paraesthesia (G3/4: <1%)	(1%); Neuropathy
	4	peripheral
Eye disorders	Lacrimation increased	
Respiratory, thoracic and	Pharyngolaryngeal pain (G3/4: 2%)	Dyspnoea (G3/4: 1%);
mediastinal disorders		Cough (G3/4: <1%);
		Epistaxis (G3/4: <1%)
Gastrointestinal disorders	Stomatitis (G3/4: 18%), Diarrhoea	Abdominal pain upper; Dry
	(G3/4: 14%); Nausea (G3/4: 6%);	mouth
	Vomiting (G3/4: 4%); Constipation	
	(G3/4: 1%); Abdominal pain (G3/4:	
	2%); Dyspepsia	
Skin and subcutaneous tissue	Hand-foot syndrome (G3/4: 24%);	Dermatitis; Rash
disorders	Alopecia (G3/4: 6%); Nail	erythematous (G3/4: <1%);
	disorders (G3/4: 2%)	Nail discolouration;
		Onycholysis (G3/4: 1%)
Musculoskeletal and connective	Myalgia (G3/4: 2%); Arthralgia	Pain in extremity (G3/4:
tissue disorders	(G3/4: 1%)	<1%); Back pain (G3/4: 1%)
General disorders and	Asthenia (G3/4: 3%); Pyrexia	Lethargy;
administration site conditions	(G3/4: 1%); Fatigue/weakness	Pain
	(G3/4: 5%); Oedema peripheral	
110	(G3/4: 1%)	W. 1. 1. 1. 00//
Investigations		Weight decreased; G3/4
(2)		Blood bilirubin increased
		(9%)

Tabulated list of adverse reactions in prostate cancer for Taxespira 75 mg/m² in combination with prednisone or prednisolone

MedDRA system organ classes	Very common adverse reactions	Common adverse reactions
Infections and infestations	Infection (G3/4: 3.3%)	
Blood and lymphatic system	Neutropenia (G3/4: 32%);	Thrombocytopenia (G3/4:
disorders	Anaemia (G3/4: 4.9%)	0.6%); Febrile neutropenia
Immune system disorders		Hypersensitivity (G3/4: 0.6%)
Metabolism and nutrition	Anorexia (G3/4: 0.6%)	
disorders		
Nervous system disorders	Peripheral sensory neuropathy	Peripheral motor neuropathy

	(G3/4: 1.2%); Dysgeusia (G3/4: 0%)	(G3/4: 0%)
Eye disorders		Lacrimation increased (G3/4: 0.6%)
Cardiac disorders		Cardiac left ventricular function decrease (G3/4: 0.3%)
Respiratory, thoracic and mediastinal disorders		Epistaxis (G3/4: 0%); Dyspnoea (G3/4: 0.6%); Cough (G3/4: 0%)
Gastrointestinal disorders	Nausea (G3/4: 2.4%); Diarrhoea (G3/4: 1.2%); Stomatitis/Pharyngitis (G3/4: 0.9%); Vomiting (G3/4: 1.2%)	60
Skin and subcutaneous tissue disorders	Alopecia; Nail disorders (no severe)	Exfoliative rash (63/4. 0.3%)
Musculoskeletal and connective bone disorders		Arthralgia (63/4: 0.3%); Myalgia (63/4: 0.3%)
General disorders and administration site conditions	Fatigue (G3/4: 3.9%); Fluid retention (severe: 0.6%)	

Tabulated list of adverse reactions in breast cancer for adjuvant therapy with Taxespira 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

MedDRA System	Very common adverse	Common adverse	Uncommon adverse
Organ classes	reactions	reactions	reactions
Infections and	Infection (G3/4: 2.4%);		
infestations	Neutropenic infection.		
	(G3/4: 2.6%)		
Blood and lymphatic	Anaemia (G3/4: 3%),		
system disorders	Neutropenia (G3/4.		
	59.2%);		
	Thrombocytopenia		
	(G3/4; 1.6%); Febrile		
	neutropenia (G3/4: NA)		
Immune system	(4	Hypersensitivity	
disorders		(G3/4: 0.6%)	
Metabolism and .	Anorexia (G3/4: 1.5%)		
nutrition disorders			
Nervous system	Dysgeusia (G3/4: 0.6%);	Peripheral motor	Syncope (G3/4: 0%);
disorders	Peripheral sensory	neuropathy (G3/4:	Neurotoxicity (G3/4:
101	neuropathy (G3/4:	0%)	0%); Somnolence
	<0.1%)		(G3/4: 0%)
Eye disorders	Conjunctivitis (G3/4:	Lacrimation increased	
*	<0.1%)	(G3/4: <0.1%)	
Cardiac disorders		Arrhythmia (G3/4:	
		0.2%)	
Vascular disorders	Hot flush (G3/4: 0.5%)	Hypotension (G3/4:	Lymphoedema (G3/4:
		0%); Phlebitis (G3/4:	0%)
D		0%)	
Respiratory, thoracic		Cough (G3/4: 0%)	
and mediastinal			
disorders	NT (CO / 1 7 00 /)	A1 1 ' 1 '	
Gastrointestinal	Nausea (G3/4: 5.0%);	Abdominal pain	
disorders	Stomatitis (G3/4: 6.0%);	(G3/4: 0.4%)	

	Vomiting (G3/4: 4.2%); Diarrhoea (G3/4: 3.4%); Constipation (G3/4: 0.5%)		
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	Myalgia (G3/4: 0.7%); Arthralgia (G3/4: 0.2%)		
Reproductive system and breast disorders	Amenorrhoea (G3/4: NA)		7
General disorders and administration site conditions	Asthenia (G3/4: 10.0%); Pyrexia (G3/4: NA); Oedema peripheral (G3/4: 0.2%)		dise
Investigations		Weight increased (G3/4: 0%); Weight decreased (G3/4: 0.2%)	

<u>Description of selected adverse reactions for adjuvant therapy with Taxespira 75 mg/m² in</u> 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 study 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 patients 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 and 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 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)

	Without primary G-CSF prophylaxis (n = 111) n (%)	With primary G-CSF prophylaxis (n = 421) n (%)
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(02)

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

MedDRA system organ	Very common adverse	Common adverse reactions
classes	reactions	
Infections and infestations	Neutropenic infection;	2)
	Infection (G3/4: 11.7%)	
Blood and lymphatic system	Anaemia (G3/4: 20.9%),	
disorders	Neutropenia (G3/4: 83.2%);	
	Thrombocytopenia (G3/4:	
	8.8%); Febrile neutropenia	
Immune system disorders	Hypersensitivity (G3/4: 1.7%)	
Metabolism and nutrition	Anorexia (G3/4: 11.7%)	
disorders	20.	
Nervous system disorders	Peripheral sensory neuropathy	Dizziness (G3/4: 2.3%); Peripheral
	(G3/4: 8.7%)	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%);	Constipation (G3/4: 1.0%);
	Nausea (G3/4: 16%);	Gastrointestinal pain (G3/4: 1.0%);
(10)	Stomatitis (G3/4: 23.7%);	Oesophagitis/dysphagia/odynophagia
0,	Vomiting (G3/4: 14.3%)	(G3/4: 0.7%)
Skin and subcutaneous tissue	Alopecia (G3/4: 4.0%)	Rash pruritus (G3/4: 0.7%); Nail
disorders		disorders (G3/4: 0.7%); Skin
		exfoliation (G3/4: 0%)
General disorders and	Lethargy (G3/4: 19.0%); Fever	
administration site conditions	(G3/4: 2.3%);	
	Fluid retention	
	(severe/life-threatening: 1%)	

Description of selected adverse reactions in gastric adenocarcinoma cancer for Taxespira 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).

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

• Induction chemotherapy followed by radiotherapy (TAX 323)

MedDRA system	Very common	Common adverse	Uncommon adverse
organ classes	adverse reactions	reactions	reactions
Infections and	Infection (G3/4: 6.3%);		
infestations	Neutropenic infection		-0
Neoplasms benign,		Cancer pain (G3/4:	
malignant and		0.6%)	.65
unspecified (incl cysts			
and polyps)			0
Blood and lymphatic	Neutropenia (G3/4:	Febrile neutropenia	
system disorders	76.3%); Anaemia		
	(G3/4: 9.2%);		•
	Thrombocytopenia	7	
	(G3/4: 5.2%)	4	
Immune system		Hypersensitivity (no	
disorders		severe)	
Metabolism and	Anorexia (G3/4: 0.6%)	,~9	
nutrition disorders			
Nervous system	Dysgeusia/Parosmia;	Dizziness	
disorders	Peripheral sensory	O ,	
	neuropathy (G3/4:		
	0.6%)		
Eye disorders		Lacrimation increased;	
		Conjunctivitis	
Ear and labyrinth	$\chi_{\mathcal{O}}$	Hearing impaired	
disorders			
Cardiac disorders	40	Myocardial ischemia	Arrhythmia (G3/4:
		(G3/4:1.7%)	0.6%)
Vascular disorders	/ Y	Venous disorder (G3/4:	
		0.6%)	
Gastrointestinal	Nausea (G3/4: 0.6%);	Constipation;	
disorders	Stomatitis (G3/4:	Oesophagitis/dysphagia/	
'''	4.0%); Diarrhoea	odynophagia (G3/4:	
	(G3/4: 2.9%);	0.6%); Abdominal pain;	
100	Vomiting (G3/4: 0.6%)	Dyspepsia;	
, No		Gastrointestinal	
<i>M</i> .		haemorrhage (G3/4:	
		0.6%)	
Skin and subcutaneous	Alopecia (G3/4:	Rash pruritic; Dry skin;	
tissue disorders	10.9%)	Skin exfoliative (G3/4:	
		0.6%)	
Musculoskeletal and		Myalgia (G3/4: 0.6%)	
connective tissue			
disorders			
General disorders and	Lethargy (G3/4: 3.4%);		
administration site	Pyrexia (G3/4: 0.6%);		
conditions	Fluid retention;		
	Oedema		
	1		

• Induction chemotherapy followed by chemoradiotherapy (TAX 324)

MedDRA system	Very common adverse reactions	Common adverse reactions	Uncommon adverse
organ classes Infections and	Infection (G3/4: 3.6%)	Neutropenic infection	reactions
infestations	infection (03/4, 3.0%)	Neuropenic infection	
		Cancer pain (G3/4:	
Neoplasms benign, malignant and		1.2%)	
unspecified (incl cysts		1.270)	
and polyps)			
Blood and lymphatic	Neutropenia (G3/4:		
system disorders	83.5%); Anaemia		disea
system disorders	(G3/4: 12.4%);		
	Thrombocytopenia		
	(G3/4: 4.0%); Febrile		
	neutropenia		, , 0
Immune system	пециорента		Hypersensitivity
disorders			Hypersensitivity
Metabolism and	Anorexia (G3/4: 12.0%)		J'
nutrition disorders	AHOICXIA (U3/4: 12.0%)	.0.	
	Dysgeusia/Parosmia	Dizziness (G3/4:	
Nervous system disorders	<i>y</i>		
disorders	(G3/4: 0.4%);	2.0%); Peripheral	
	Peripheral sensory	motor neuropathy	
	neuropathy (G3/4: 1.2%)	(G3/4: 0.4%)	
Evo digandana	1.270)	Domination in anagad	Comissantissitia
Eye disorders Ear and labyrinth	Haaring impaired	Dacrimation increased	Conjunctivitis
Ear and labyrinth disorders	Hearing impaired		
Cardiac disorders	(G3/4: 1.2%)	Ambrithmic (C2/A:	Inchamia myragardial
Cardiac disorders		Arrhythmia (G3/4: 2.0%)	Ischemia myocardial
Vascular disorders	Yo.	,	Venous disorder
Gastrointestinal	Nausea (63/4. 13.9%);	Dyspepsia (G3/4:	
disorders	Stomatitis (G3/4:	0.8%); Gastrointestinal	
	20.7%), Vomiting	pain (G3/4: 1.2%);	
•	(G3/4; 8.4%); Diarrhoea	Gastrointestinal	
	(3/4: 6.8%);	haemorrhage (G3/4:	
	Oesophagitis/dysphagia/	0.4%)	
	odynophagia (G3/4:		
(,(0)	12.0%); Constipation		
	(G3/4: 0.4%)		
Skin and subcutaneous	Alopecia (G3/4: 4.0%);	Dry skin;	
tissue disorders	Rash pruritic	Desquamation	
Musculoskeletal,		Myalgia (G3/4: 0.4%)	
connective tissue bone			
disorders			
General disorders and	Lethargy (G3/4: 4.0%);		
administration site	Pyrexia (G3/4: 3.6%);		
conditions	Fluid retention (G3/4:		
	1.2%); Oedema (G3/4:		
	1.2%)		
Investigations	Weight decreased		Weight increased

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.

Hypersensitivity reactions (frequency not known) have been reported with docetaxel in patients who previously experienced hypersensitivity reactions to paclitaxel.

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.

Eve 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 cases of enterocolitis, including colitis, ischemic colitis, and neutropenic enterocolitis, have been reported with a potential fatal outcome (frequency not known).

Rare occurrences of dehydration have been reported as a consequence of gastrointestinal events including enterocolitis and gastrointestinal perforation.

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 gastro-intestinal disorders.

General disorders and administration site conditions

Radiation recall phenomena have rarely been reported.

Injection site recall reaction (recurrence of skin reaction at a site of previous extravasation following administration of docetaxel at a different site) has been observed at the site of previous extravasation (frequency not known).

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: antineoplastic agents, 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

Taxespira 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+), 1,491 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 cyclosphosphamide 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 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). OS 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 analysed:

		Disease free survival			Overall su	Overall survival	
Patient subset	Number of patients	Hazard ratio*	95% CI	p =	Hazard ratio*	95% CI	p =
No of positive							

nodes							
Overall	745	0.80	0.68-0.93	0.0043	0.74	0.61-0.90	0.0020
1-3	467	0.72	0.58-0.91	0.0047	0.62	0.46-0.82	0.0008
4+	278	0.87	0.70-1.09	0.2290	0.87	0.67-1.12	0.2746

^{*}a hazard ratio of less than 1 indicates that TAC is associated with a longer disease-free survival and OS 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 Taxespira for the adjuvant treatment of patients with operable node-negative breast cancer eligible to receive chemotherapy. 1060 patients were randomized to receive either Taxespira 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 cyclosphosphamide 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. Taxespira 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 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, 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):

<u>Subset analyses-adjuvant therapy in patients with node-negative breast cancer study (intent-to-treat analysis)</u>

		Disease fre	e survival
Patient subset	Number of patients in TAC group	Hazard ratio*	95% CI
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			.60
≤2 cm	285	0.69	0.43-1.1
>2 cm	254	0.68	0.45-1.04
Histological grade			
Grade1 (includes grade	64	0.79	0.24-2.6
not assessed)			
Grade 2	216	0.77	0.46-1.3
Grade 3	259	0.59	0.39-0.9
Menopausal status			
Pre-Menopausal	285	0.64	0.40-1
Post-Menopausal	254	0.72	0.47-1.12

^{*}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:

	TAC	FAC	Hazard ratio	
Subgroups	(n=539)	(n=521)	(TAC/FAC) (95% CI)	p-value
Meeting relative	40	, , ,		•
indication for chemotherapy ^a	16,			
No	18/214	26/227	0.796	0.4593
•	(8.4%)	(11.5%)	(0.434 - 1.459)	
Yes	48/325	69/294	0.606	0.0072
1,10	(14.8%)	(23.5%)	(0.42 - 0.877)	

TAC = docetaxel, doxorubicin and cyclophosphamide

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

Taxespira 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.

FAC = 5-fluorouracil, doxorubicin and cyclophosphamide

CI = confidence interval; ER = estrogen receptor PR = progesterone receptor

^a ER/PR-negative or Grade 3 or tumour size >5 cm

In alkylating-failure patients, docetaxel was compared to doxorubicin (75 mg/m² every 3 weeks). Without affecting OS 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 OS (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%).

Taxespira 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 \geq 20% (13.1% versus 6.1%), absolute LVEF decrease \geq 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.

Taxespira 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:

Parameter	Docetaxel plus trastuzumab ¹	Docetaxel ¹
	n = 92	n = 94
Response rate	61%	34%
(95% CI)	(50-71)	(25-45)
Median duration of response		01
(months)	11.4	5.1
(95% CI)	(9.2-15.0)	(4.4-6.2)
Median TTP (months)	10.6	5.7
(95% CI)	(7.6-12.9)	(5.0-6.5)
Median survival (months)	30.5^2	22.12
(95% CI)	(26.8-ne)	(17.6-28.9)

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

Taxespira 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 cance

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 OS 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 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.

Taxespira 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

¹Full analysis set (intent-to-treat)

² Estimated median survival

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:

	TCis	VCis	Statistical analysis
	n = 408	n = 404	
OS			
(Primary end-point):			
Median survival (months)	11.3	10.1	Hazard Ratio: 1.122
			[97.2% CI: 0.937; 1.342]*
1-year Survival (%)	46	41	Treatment difference: 5.4%
			[95% CI: -1.1; 12.0]
2-year Survival (%)	21	14	Treatment difference: 6.2%
			[95% CI: 0. 2 ; 12.3]
Median time to progression			
(weeks):	22.0	23.0	Hazard Ratio: 1.032
			[95% Cl. 0.876; 1.216]
Overall response rate (%):	31.6	24.5	Treatment difference: 7.1%
			[95% CI: 0.7; 13.5]

^{*:} 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 $\text{KPS} \ge 60$ 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 OS 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	Docetaxel	Docetaxel	Mitoxantrone
	every 3 weeks	every week	every 3 weeks
Number of patients	335	334	337
Median survival (months)	18.9	17.4	16.5
95% CI	(17.0-21.2)	(15.7-19.0)	(14.4-18.6)
Hazard ratio	0.761	0.912	
95% CI	(0.619-0.936)	(0.747-1.113)	
p-value [†] *	0.0094	0.3624	
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

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) $(75 \text{ mg/m}^2 \text{ on day 1})$ in combination with cisplatin (C) $(75 \text{ mg/m}^2 \text{ on day 1})$ and 5-fluorouracil (F) $(750 \text{ mg/m}^2 \text{ per day for 5 days})$ or cisplatin $(100 \text{ mg/m}^2 \text{ on day 1})$ and 5-fluorouracil $(1000 \text{ mg/m}^2 \text{ per day for 5 days})$. 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 favour of the TCF arm. OS was also significantly longer (p = 0.0201) in favour 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

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

^{*}Unstratified logrank test

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

^{*}Threshold for statistical significance = 0.0175

^{**}PSA: Prostate-Specific Antigen

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 favour 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-laber, 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) 1,000 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 OS was also significantly longer in favour 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)

Endpoint	Docetaxel + Cis + 5-FU	Cis + 5-FU	
	n = 177	n = 181	
Median progression free survival (months)	11.4	8.3	
(95% CI)	(10.1-14.0)	(7.4-9.1)	
Adjusted hazard ratio	0.7	0.70	
(95% CI)	(0.55-	(0.55-0.89)	
*p-value	0.00	042	
Median survival (months)	18.6	14.5	
(95% CI)	(15.7-24.0)	(11.6-18.7)	
Hazard ratio	0.3	0.72	
(95% CI)	(0.56-	(0.56-0.93)	
**p-value	0.0	0.0128	
Best overall response to chemotherapy (%)	67.8	53.6	

(95% CI)	(60.4-74.6)	(46.0-61.0)	
***p-value	0.006		
Best overall response to study treatment			
[chemotherapy +/- radiotherapy] (%)	72.3	58.6	
(95% CI)	(65.1-78.8)	(51.0-65.8)	
***p-value	0.006		
Median duration of response to chemotherapy ±	n = 128	n = 106	
radiotherapy (months)	15.7	11.7	
(95% CI)	(13.4-24.6)	(10.2-17.4)	
Hazard ratio	0.72		
(95% CI)	(0.52-0.99)		
**p-value	0.0457		

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

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 thet, was significantly in favour 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) 1,000 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) 1,000 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, OS was significantly longer (log-rank test, p = 0.0058) with the docetaxel-containing regimen compared to PF (median OS: 70.6)

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

^{**}Logrank test

^{***} Chi-square test

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)

Endpoint	Docetaxel + Cis + 5-FU	Cis + 5-FU	
	n = 255	n = 246	
Median OS (months)	70.6	30.1	
(95% CI)	(49.0-NA)	(20.9-51.5)	
Hazard ratio:	0.	70	
(95% CI)	(0.54-0.90)		
*p-value	0.0	058	
Median PFS (months)	35.5	13.1	
(95% CI)	(19.3-NA)	(10.6 - 20.2)	
Hazard ratio:	0.70		
(95% CI)	(0.56 - 0.90)		
**p-value	(0.)	004	
Best overall response (CR + PR) to	4		
chemotherapy (%)	71.8	64.2	
(95% CI)	(65.8-77.2)	(57.9-70.2)	
***p-value	0.070		
Best overall response (CR + PR) to study treatment			
[chemotherapy +/- chemoradiotherapy] (%)	76.5	71.5	
(95%CI)	(70.8-81.5)	(65.5-77.1)	
***p-value	0.2	209	

A hazard ratio of less than 1 favours docetaxel + cisplatin + fluorouracil

NA-not applicable

Paediatric population

The European Medicines Agency has waived the obligation to submit the results of studies with Taxespira in all subsets of the paediatric population in 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 (see section 4.2 for information on paediatric use).

^{*}un-adjusted log-rank test

^{**}un-adjusted log-rank test, not adjusted for multiple comparisons

^{***}Chi square test, not adjusted for multiple comparisons

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/m^2 dose given as a one-hour infusion a mean peak plasma level of $3.7 \mu\text{g/ml}$ was obtained with a corresponding AUC of 4.6 h.\mu g/ml . Mean values for total body clearance and steady-state volume of distribution were 21 l/h/m^2 and 113 l, respectively. Interindividual variation in total body clearance was approximately 50%. Docetaxel is more than 95% bound to plasma proteins.

Elimination

A study of ¹⁴C-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 elinical 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 therap

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 ict no longe! male fertility.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Polysorbate 80 Ethanol (anhydrous) Citric acid monohydrate

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 24 months.

After opening

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 with sodium chloride 9 mg/ml (0.9%) or 5% glucose infused solution in non-PVC bags or with 5% glucose in glass bottles has been demonstrated for up to 48 hours when stored between 2°C to 8°C and for up to 6 hours when stored below 25°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.

Special precautions for storage 6.4

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

Clear glass (type I) vial with a chlorobutyl rubber stopper and an aluminium seal with a hip-off cap.

20mg/1 ml contains 1 ml of concentrate.

80mg/4 ml contains 6 ml of concentrate.

120mg/6 ml contains 7 ml of concentrate.

140mg/7 ml contains 8 ml of concentrate.

Pack size:

Each box contains 1 vial.

Not all pack sizes may be marketed.

Not all pack sizes may be marketed.

Special precautions for disposal and other handling 6.6

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

If Taxespira concentrate or infusion solution should come into contact with skin, wash immediately and thoroughly with soap and water. If Taxespira concentrate 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 (Taxespira 20 mg/1 ml concentrate for solution for infusion, which contains only 1 vial).

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (Taxespira 80 mg/4 ml concentrate for solution for infusion, which contains only 1 vial).

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (Taxespira 120 mg/6 ml concentrate for solution for infusion, which contains only 1 vial).

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (Taxespira 140 mg/7 ml concentrate for solution for infusion, which contains only 1 vial).

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (Taxespira 160 mg/8 ml concentrate for solution for infusion, which contains only 1 vial).

Taxespira 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 Taxespira concentrate for solution for infusion to stand below 25°C for 5 minutes before use.

More than one vial of Taxespira concentrate for solution for infusion may be necessary to obtain the required dose for the patient. Aseptically withdraw the required amount of Taxespira concentrate for solution for infusion using a calibrated syringe fitted with a 21G needle.

In Taxespira 20 mg/1 ml, 80 mg/4 ml, 120 mg/6 ml, 140 mg/7 ml and 160 mg/8 ml vials the concentration of docetaxel is 20 mg/ml.

The required volume of Taxespira concentrate for solution for infusion must be injected via a single infusion (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, docetaxel 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

Hospira UK Limited Horizon, Honey Lane, Hurley, Maidenhead, SL6 6RJ,

United Kingdom

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/15/1017/001 EU/1/15/1017/002 EU/1/15/1017/003 EU/1/15/1017/004 EU/1/15/1017/005

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION 28 August 2015

DATE OF REVISION OF THE TEXT 10.

Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu.

ANNEX II

- Jer authorised A. MANUFACTURERS 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 Medicinalip

A. MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturers responsible for batch release

Hospira UK Limited

Horizon,

Honey Lane,

Hurley,

Maidenhead,

SL6 6RJ,

United Kingdom

Hospira Enterprises B.V. Randstad 22-11 NL-1316 BN Almere The Netherlands

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 AUTHORISATION

• Periodic safety update reports

The requirements for submission of periodic safety update reports for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates 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)

The MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the Marketing Authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

ANNEX III
LABELLING AND PACKAGE PEAFLET

Notice that the state of the

A. LABELLING NO. OR BUTTONISED

Medicinal Product no longer authorised

Medicinal Product no longer authorised

Taxespira 20 mg/1 ml concentrate for solution for infusion. Docetaxel 2. STATEMENT OF ACTIVE SUBSTANCE(S) Each 1 ml of concentrate contains 20 mg docetaxel (as trihydrate). 3. LIST OF EXCIPIENTS Excipients: polysorbate 80, ethanol anhydrous (see leaflet for further information), citric acid monohydrate. PHARMACEUTICAL FORM AND CONTENT Concentrate for solution for infusion. 1 vial METHOD AND ROUTE(S) OF ADMINISTRATION 5. For intravenous use. Ready to add to infusion solution Read the package leafle before use.

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

NAME OF THE MEDICINAL PRODUCT

Outer Carton

1.

6.

7.

Cytotoxic

SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT

OF THE SIGHT AND REACH OF CHILDREN

OTHER SPECIAL WARNING(S), IF NECESSARY

Keep out of the sight and reach of children.

8.	EXPIRY DATE
Exp:	
9.	SPECIAL STORAGE CONDITIONS
Do no	ot store above 25°C.
	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	e use vials.
J	, vo,
11.	NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Цоспі	ra UV Limitad
Hurle	ra UK Limited
SL6 6	
	d Kingdom
12.	MARKETING AUTHORISATION NUMBER(S)
EU/1/	/15/1017/001 20 mg/1 ml vial x 1 vial
	C
13.	BATCH NUMBER
Lot:	400
	, <i>Q</i> '
14.	GENERAL CLASSIFICATION FOR SUPPLY
15.	INSTRUCTIONS ON USE
•	NEO.
16.	INFORMATION IN BRAILLE
Justifi	cation for not including Braille accepted
15	UNIONE INCIDIED AND ADDODE
17.	UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER – HUMAN READABLE DATA

PC: SN:

NN:

Medicinal product no longer authorised

PARTICULARS TO APPEAR ON THE OUTER PACKAGING	
Outer Carton	
1. NAME OF THE MEDICINAL PRODUCT	
Taxespira 80 mg/4 ml concentrate for solution for infusion. Docetaxel	
2. STATEMENT OF ACTIVE SUBSTANCE(S)	
Each 1 ml of concentrate contains 20 mg docetaxel (as trihydrate).	
3. LIST OF EXCIPIENTS	
Excipients: polysorbate 80, ethanol anhydrous (see leaflet for further information), citric acid monohydrate.	
4. PHARMACEUTICAL FORM AND CONTENTS	
Concentrate for solution for infusion.	
1 vial	
5. METHOD AND ROUTE(S) OF ADMINISTRATION	
For intravenous use	
Ready to add to infusion solution.	
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	
8. EXPIRY DATE	

Exp:

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.
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Hospira UK Limited Hurley, SL6 6RJ, United Kingdom
12. MARKETING AUTHORISATION NUMBER(S)
EU/1/15/1017/002 80 mg/4 ml vial x 1 vial
12 PATCH NUMBER
13. BATCH NUMBER
Lot:
14. GENERAL CLASSIFICATION FOR SUPPLY
400
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
Justification for not including Braille accepted
17. UNIQUE IDENTIFIER – 2D BARCODE
2D barcode carrying the unique identifier included.
18. UNIQUE IDENTIFIER – HUMAN READABLE DATA
PC: SN: NN:

9. SPECIAL STORAGE CONDITIONS

PARTICULARS TO APPEAR ON THE OUTER PACKAGING		
Outer Carton		
1. NAME OF THE MEDICINAL PRODUCT		
Taxespira 120 mg/6 ml concentrate for solution for infusion. Docetaxel		
2. STATEMENT OF ACTIVE SUBSTANCE(S)		
Each 1 ml of concentrate contains 20 mg docetaxel (as trihydrate).		
3. LIST OF EXCIPIENTS		
Excipients: polysorbate 80, ethanol anhydrous (see leaflet for further information), citric acid monohydrate.		
4. PHARMACEUTICAL FORM AND CONTENTS		
Concentrate for solution for infusion.		
1 vial		
5. METHOD AND ROUTE(S) OF ADMINISTRATION		
For intravenous use.		
Ready to add to infusion solution.		
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		
8. EXPIRY DATE		
Exp:		

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.
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Hospira UK Limited Hurley, SL6 6RJ, United Kingdom
12. MARKETING AUTHORISATION NUMBER(S)
EU/1/15/1017/003 120 mg/6 ml vial x 1 vial
12 DATCH NUMBER
13. BATCH NUMBER
Lot:
14. GENERAL CLASSIFICATION FOR SUPPLY
400
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
Justification for not including Braille accepted
17. UNIQUE IDENTIFIER – 2D BARCODE
2D barcode carrying the unique identifier included.
18. UNIQUE IDENTIFIER – HUMAN READABLE DATA
PC: SN: NN:

9. SPECIAL STORAGE CONDITIONS

Outer Carton	
1. NAME OF THE MEDICINAL PRODUCT	
Taxespira 140 mg/7 ml concentrate for solution for infusion. Docetaxel	
2. STATEMENT OF ACTIVE SUBSTANCE(S)	
Each 1 ml of concentrate contains 20 mg docetaxel (as trihydrate).	
3. LIST OF EXCIPIENTS	
Excipients: polysorbate 80, ethanol anhydrous (see leaflet for further information), citric acid monohydrate.	
4. PHARMACEUTICAL FORM AND CONTENTS	
Concentrate for solution for infusion.	
1 vial	
5. METHOD AND ROUTE(S) OF ADMINISTRATION	
For intravenous use.	
Ready to add to infusion solution.	
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	
8. EXPIRY DATE	
Exp:	

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

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.
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER
Hospira UK Limited Hurley, SL6 6RJ, United Kingdom
12. MARKETING AUTHORISATION NUMBER(S)
EU/1/15/1017/004 140 mg/7 ml vial x 1 vial
13. BATCH NUMBER
13. BATCH NUMBER
Lot:
14. GENERAL CLASSIFICATION FOR SUPPLY
400
15. INSTRUCTIONS ON USE
16. INFORMATION IN BRAILLE
Justification for not including Braille accepted
17. UNIQUE IDENTIFIER – 2D BARCODE
2D barcode carrying the unique identifier included.
18. UNIQUE IDENTIFIER – HUMAN READABLE DATA
PC: SN: NN:

9. SPECIAL STORAGE CONDITIONS

Outer Carton	
1. NAME OF THE MEDICINAL PRODUCT	
Taxespira 160 mg/8 ml concentrate for solution for infusion. Docetaxel	
2. STATEMENT OF ACTIVE SUBSTANCE(S)	
Each 1 ml of concentrate contains 20 mg docetaxel (as trihydrate).	
3. LIST OF EXCIPIENTS	
Excipients: polysorbate 80, ethanol anhydrous (see leaflet for further information), citric acid monohydrate.	
4. PHARMACEUTICAL FORM AND CONTENTS	
Concentrate for solution for infusion.	
1 vial	
5. METHOD AND ROUTE(S) OF ADMINISTRATION	
For intravenous use.	
Ready to add to infusion solution.	
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	
8. EXPIRY DATE	
Exp:	

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

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		
Single use vials.		
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER		
Hospira UK Limited Hurley, SL6 6RJ, United Kingdom		
12. MARKETING AUTHORISATION NUMBER(S)		
EU/1/15/1017/005 160 mg/8 ml vial x 1 vial		
13. BATCH NUMBER		
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Lot:		
14. GENERAL CLASSIFICATION FOR SUPPLY		
400		
15. INSTRUCTIONS ON USE		
16. INFORMATION IN BRAILLE		
Justification for not including Braille accepted		
17. UNIQUE IDENTIFIER – 2D BARCODE		
2D barcode carrying the unique identifier included.		
18. UNIQUE IDENTIFIER – HUMAN READABLE DATA		
PC: SN: NN:		

9. SPECIAL STORAGE CONDITIONS

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS		
Vial label		
1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION		
Taxespira 20 mg/1 ml concentrate for solution for infusion. Docetaxel IV		
2. METHOD OF ADMINISTRATION		
3. EXPIRY DATE		
EXP:		
4. BATCH NUMBER		
Lot:		
5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT		
20 mg/1 ml		
20 mg/1 ml (20mg/ml)		
6. OTHER		
6. OTHER Redicinal Production of the state		

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MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS
Vial label
1 NAME OF THE MEDICINAL PRODUCT AND POUTE(6) OF ADMINISTRATION
1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
Taxespira 80 mg/4 ml concentrate for solution for infusion.
Docetaxel
IV
2. METHOD OF ADMINISTRATION
3. EXPIRY DATE
EXP:
4. BATCH NUMBER
Lot:
5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
80 mg/4 ml (20mg/ml)
(20mg/ml)
(20llig/lill)
40
6. OTHER
6. OTHER ORDER ORDER

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS
Vial label
1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION
Taxespira 120 mg/6 ml concentrate for solution for infusion. Docetaxel IV
2. METHOD OF ADMINISTRATION
3. EXPIRY DATE
EXP:
4. BATCH NUMBER
Lot:
5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT
120 mg/6 ml
120 mg/6 ml (20mg/ml)
6. OTHER
6. OTHER ORDER ORDER

1.	NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION	
Taxespira 140 mg/7 ml concentrate for solution for infusion. Docetaxel IV		
2.	METHOD OF ADMINISTRATION	
3.	EXPIRY DATE	
EXP:		
4.	BATCH NUMBER	
Lot:	DATER WOMBER	
	CONTENTS DU MEIGHT DU MOI HATE OF THE CONTENTS	
5.	CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT	
140 r	mg/7 ml	
140 mg/7 ml (20mg/ml)		
6.	OTHER	
•	Nedicinal Pro	

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

Vial label

1.	NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION	
Taxespira 160 mg/8 ml concentrate for solution for infusion. Docetaxel IV		
2.	METHOD OF ADMINISTRATION	
3.	EXPIRY DATE	
EXP:	autino	
4.	BATCH NUMBER	
Lot:	ander	
5.	CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT	
160 mg/8 ml (20mg/ml) 6. OTHER		
6.	OTHER	
	Nedicinal P	

MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

Vial label

B. PACKAGE LEAFLET BY AUTHORISE OF BUTTON OF THE SECOND OF

Package leaflet: Information for the patient

Taxespira 20 mg/1 ml concentrate for solution for infusion Taxespira 80 mg/4 ml concentrate for solution for infusion Taxespira 120 mg/6 ml concentrate for solution for infusion Taxespira 140 mg/7 ml concentrate for solution for infusion Taxespira 160 mg/8 ml concentrate for solution for infusion

Docetaxel

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 Taxespira is and what it is used for
- 2. What you need to know before you use Taxespira
- 3. How to use Taxespira
- 4. Possible side effects
- 5. How to store Taxespira
- 6. Contents of the pack and other information

1. What Taxespira is and what it is used for

The name of this medicine is Taxespira. 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.

Taxespira 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, Taxespira 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, Taxespira could be administered in combination with doxorubicin and cyclophosphamide.
- For the treatment of lung cancer, Taxespira could be administered either alone or in combination with cisplatin.
- For the treatment of prostate cancer, Taxespira is administered in combination with prednisone or prednisolone.
- For the treatment of metastatic gastric cancer, Taxespira is administered in combination with cisplatin and 5-fluorouracil.
- For the treatment of head and neck cancer, Taxespira is administered in combination with cisplatin and 5-fluorouracil.

2. What you need to know before you use Taxespira

You must not be given Taxespira

• if you are allergic (hypersensitive) to docetaxel or any of the other ingredients of Taxespira (listed in section 6).

- if the number of your white blood cells is too low.
- if you have a severe liver disease.

Warnings and precautions

Before each treatment with Taxespira, you will have blood tests to check that you have enough blood cells and sufficient liver function to receive Taxespira. In case of white blood cells disturbances, you may experience associated fever or infections.

Tell your doctor, hospital pharmacist, or nurse immediately if you have abdominal pain or tenderness, diarrhoea, rectal haemorrhage, blood in stool or fever. These symptoms may be the first signs of a serious gastrointestinal toxicity, which could be fatal. Your doctor should address them immediately.

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.

Tell your doctor, hospital pharmacist or nurse if you have experienced an allergic reaction to previous paclitaxel therapy.

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 Taxespira 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 Taxespira 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.

Taxespira contains alcohol. Discuss with your doctor if you suffer from alcohol dependency, epilepsy, or liver impairment. See also section "Taxespira contains ethanol (alcohol)" below.

Other medicines and Taxespira

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 Taxespira or the other medicine may not work as well as expected and you may be more likely to get a side effect. The amount of alcohol in this medicinal product may alter the effects of other medicines.

Pregnancy, breast-feeding and fertility

Ask your doctor for advice before being given any medicine.

Taxespira must <u>NOT</u> 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 Taxespira 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 Taxespira.

If you are a man being treated with Taxespira 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

The amount of alcohol in this medicinal product may impair your ability to drive or use machines. You may experience side effects of this medicine that may impair your ability to drive, use tools or operate machines (see section 4 Possible side effects). If this happens, do not drive or use any tools or machines before discussing with your doctor, nurse or hospital pharmacist.

Taxespira contains ethanol (alcohol)

20mg/1ml:

This medicine contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 395 mg ethanol anhydrous per 1 ml, equivalent to 10 ml of beer or 4 ml wine.

80mg/4 ml:

This medicine contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 1580 mg ethanol anyhdrous per 4 ml vial, equivalent to 40 ml of beer or 17 ml wine.

120mg/6 ml:

This medicine contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 2370 mg ethanol anhydrous per 6 ml vial, equivalent to 60 ml of beer or 25 ml wine.

140mg/7 ml:

This medicine contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 2765 mg ethanol anhydrous per 7 ml vial, equivalent to 70 ml of beer or 29 ml wine.

160mg/8 ml:

This medicine contains 50 vol % ethanol anhydrous (alcohol), i.e. up to 3160 mg ethanol anhydrous per 8 ml vial, equivalent to 80 ml of beer or 33 ml wine.

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).

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.

3. How to use Taxespira

Taxespira 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

Taxespira 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 Taxespira. 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 the 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 Taxespira alone are: decrease in the number of red blood cells or white blood cells, alopecia (hair loss), nausea, vomiting, sores in the mouth, diarrhoea and tiredness.

The severity of adverse events of Taxespira may be increased when Taxespira is given in combination with other chemotherapeutic agents.

During the infusion at the hospital the following allergic reactions may occur (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.

If you had an allergic reaction to paclitaxel, you may also experience an allergic reaction to docetaxel, which may be more severe.

The hospital staff will monitor your condition closely during treatment. Tell them immediately if you notice any of these effects.

Between infusions of Taxespira 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 blood cells (anaemia), or white blood cells (which are important in fighting infection) and platelets (important in blood clotting)
- 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
- 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 colour of your nails, which may detach
- muscle aches and pains; back pain or bone pain
- change or absence of menstrual periods
- 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 (thrush)
- dehydration
- dizziness
- hearing impaired
- decrease in blood pressure; irregular or rapid heart beat
- heart failure
- oesophagitis (inflammation of the gullet)
- dry mouth
- difficulty or painful swallowing
- haemorrhage (bleeding)
- at John British and the second of the second 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 •
- blood clots.

Rare (may affect up to 1 in 1,000 people):

inflammation of the colon, small intestine, which could be fatal (frequency not known); intestinal perforation.

Frequency not known (cannot be estimated from 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.
- injection site reactions at the site of a previous reaction.

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

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system listed in <u>Appendix V</u>. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Taxespira

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°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.

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 Taxespira contains

- The active substance is docetaxel (as trihydrate). Each ml of solution contains 20 mg of docetaxel (as trihydrate).

<u> 20mg/1 ml</u>

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

80 mg/4 ml

One vial of 4 ml concentrate contains 80 mg docetaxel.

120 mg/6 ml

One vial of 6 ml concentrate contains 120 mg docetaxel.

140mg/7 ml

One vial of 7 ml concentrate contains 140 mg docetaxel.

160mg/8 ml

One vial of 8 ml concentrate contains 160 mg docetaxel.

- The other ingredients are polysorbate 80, ethanol anhydrous (see section 2) and citric acid monohydrate.

What Taxespira looks like and contents of the pack

Taxespira concentrate for solution for infusion is a pale yellow to brownish-yellow solution provided in glass vials.

Vials containing 20 mg/1 ml, 80 mg/4 ml, 120 mg/6 ml, 140 mg/7 ml and 160 mg/8 ml are available in packs containing a single vial.

Not all pack sizes are marketed.

Marketing Authorisation Holder and Manufacturer

Hospira UK Limited Horizon, Honey Lane, Hurley, Maidenhead, SL6 6RJ, United Kingdom

For any information about this medicine, please contact the local representative of the Marketing Authorisation Holder:

BE / LU

Pfizer SA/NV

Tél/Tel: +32 2 554 62 11

BG/EL/MT/RO/UK

Hospira UK Limited

Tel: +44 (0) 1628 515500

\mathbf{CZ}

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$\mathbf{E}\mathbf{E}$

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FR

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69

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This leaflet was last revised in {month YY

Detailed information on this medicine is available on the European Medicines Agency web site: http://www.ema.europa.eu.

This leaflet is available in all EU/EEA languages on the European Medicines Agency website.

The following information is intended for healthcare professionals only:

PREPARATION GUIDE FOR USE WITH TAXESPIRA CONCENTRATE FOR SOLUTION FOR INFUSION

portant that you read the entire contents of this guide prior to the preparation of the Taxespira 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 Taxespira 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 (Taxespira 20 mg/1 ml concentrate for solution for infusion, which contains only 1 vial).

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (Taxespira 80 mg/4 ml concentrate for solution for infusion, which contains only 1 vial).

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (Taxespira 120 mg/6 ml concentrate for solution for infusion, which contains only 1 vial).

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (Taxespira 140 mg/7 ml concentrate for solution for infusion, which contains only 1 vial).

DO NOT use other docetaxel medicinal products consisting of 2 vials (concentrate and solvent) with this medicinal product (Taxespira 160 mg/8 ml concentrate for solution for infusion, which contains only 1 vial).

Taxespira 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 Taxespira 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 Taxespira 20 mg/1 ml concentrate for solution for infusion.
- Aseptically withdraw the required amount of concentrate for solution for infusion with a calibrated syringe fitted with a 21G needle.

In Taxespira 20 mg/1 ml, 80 mg/4 ml, 120 mg/6 ml, 140 mg/7 ml and 160 mg/8 ml vials the concentration of docetaxel is 20 mg/ml.

- Inject the required dose (in mg) via a single injection (one shot) into a 250 ml non-PVC infusion bag containing either 5% glucose solution or sodium chloride 9 mg/ml (0.9%) solution for infusion or with 5% glucose solution in a glass bottle. 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 in non-PVC bags or bottles has been demonstrated up to 48 hours when stored between 2°C to 8°C, and for up to 6 hours when stored below 25°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. These measures will help protect the environment.

Medicinal product no longer authorised