ANNEX I

SUMMARY OF PRODUCT CHARACTERISTICS
1. NAME OF THE MEDICINAL PRODUCT

Revolade 12.5 mg film-coated tablets
Revolade 25 mg film-coated tablets
Revolade 50 mg film-coated tablets
Revolade 75 mg film-coated tablets

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Revolade 12.5 mg film-coated tablets
Each film-coated tablet contains eltrombopag olamine equivalent to 12.5 mg eltrombopag.

Revolade 25 mg film-coated tablets
Each film-coated tablet contains eltrombopag olamine equivalent to 25 mg eltrombopag.

Revolade 50 mg film-coated tablets
Each film-coated tablet contains eltrombopag olamine equivalent to 50 mg eltrombopag.

Revolade 75 mg film-coated tablets
Each film-coated tablet contains eltrombopag olamine equivalent to 75 mg eltrombopag.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Film-coated tablet.

Revolade 12.5 mg film-coated tablets
White, round, biconvex film-coated tablet (approximately 7.9 mm in diameter) debossed with ‘GS MZ1’ and ‘12.5’ on one side.

Revolade 25 mg film-coated tablets
White, round, biconvex film-coated tablet (approximately 10.3 mm in diameter) debossed with ‘GS NX3’ and ‘25’ on one side.

Revolade 50 mg film-coated tablets
Brown, round, biconvex film-coated tablet (approximately 10.3 mm in diameter) debossed with ‘GS UFU’ and ‘50’ on one side.

Revolade 75 mg film-coated tablets
Pink, round, biconvex film-coated tablet (approximately 10.3 mm in diameter) debossed with ‘GS FFS’ and ‘75’ on one side.
4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Revolade is indicated for the treatment of adult patients with primary immune thrombocytopenia (ITP) who are refractory to other treatments (e.g. corticosteroids, immunoglobulins) (see sections 4.2 and 5.1).

Revolade is indicated for the treatment of paediatric patients aged 1 year and above with primary immune thrombocytopenia (ITP) lasting 6 months or longer from diagnosis and who are refractory to other treatments (e.g. corticosteroids, immunoglobulins) (see sections 4.2 and 5.1).

Revolade is indicated in adult patients with chronic hepatitis C virus (HCV) infection for the treatment of thrombocytopenia, where the degree of thrombocytopenia is the main factor preventing the initiation or limiting the ability to maintain optimal interferon-based therapy (see sections 4.4 and 5.1).

Revolade is indicated in adult patients with acquired severe aplastic anaemia (SAA) who were either refractory to prior immunosuppressive therapy or heavily pretreated and are unsuitable for haematopoietic stem cell transplantation (see section 5.1).

4.2 Posology and method of administration

Eltrombopag treatment should be initiated by and remain under the supervision of a physician who is experienced in the treatment of haematological diseases or the management of chronic hepatitis C and its complications.

Posology

Eltrombopag dosing requirements must be individualised based on the patient’s platelet counts. The objective of treatment with eltrombopag should not be to normalise platelet counts.

The powder for oral suspension may lead to higher eltrombopag exposure than the tablet formulation (see section 5.2). When switching between the tablet and the powder for oral suspension formulations, platelet counts should be monitored weekly for 2 weeks.

Immune (primary) thrombocytopenia

The lowest dose of eltrombopag to achieve and maintain a platelet count ≥50 000/µl should be used. Dose adjustments are based upon the platelet count response. Eltrombopag must not be used to normalise platelet counts. In clinical studies, platelet counts generally increased within 1 to 2 weeks after starting eltrombopag and decreased within 1 to 2 weeks after discontinuation.

Adults and paediatric population aged 6 to 17 years
The recommended starting dose of eltrombopag is 50 mg once daily. For patients of East-/Southeast-Asian ancestry, eltrombopag should be initiated at a reduced dose of 25 mg once daily (see section 5.2).

Paediatric population aged 1 to 5 years
The recommended starting dose of eltrombopag is 25 mg once daily.
**Monitoring and dose adjustment**

After initiating eltrombopag, the dose must be adjusted to achieve and maintain a platelet count ≥50 000/µl as necessary to reduce the risk for bleeding. A daily dose of 75 mg must not be exceeded.

Clinical haematology and liver tests should be monitored regularly throughout therapy with eltrombopag and the dose regimen of eltrombopag modified based on platelet counts as outlined in Table 1. During therapy with eltrombopag full blood counts (FBCs), including platelet count and peripheral blood smears, should be assessed weekly until a stable platelet count (≥50 000/µl for at least 4 weeks) has been achieved. FBCs including platelet counts and peripheral blood smears should be obtained monthly thereafter.

**Table 1  Dose adjustments of eltrombopag in ITP patients**

<table>
<thead>
<tr>
<th>Platelet count</th>
<th>Dose adjustment or response</th>
</tr>
</thead>
</table>
| <50 000/µl following at least 2 weeks of therapy | Increase daily dose by 25 mg to a maximum of 75 mg/day*.
| ≥50 000/µl to ≤150 000/µl | Use lowest dose of eltrombopag and/or concomitant ITP treatment to maintain platelet counts that avoid or reduce bleeding. |
| >150 000/µl to ≤250 000/µl | Decrease the daily dose by 25 mg. Wait 2 weeks to assess the effects of this and any subsequent dose adjustments*. |
| >250 000/µl | Stop eltrombopag; increase the frequency of platelet monitoring to twice weekly. Once the platelet count is ≤100 000/µl, reinitiate therapy at a daily dose reduced by 25 mg. |

* For patients taking 25 mg eltrombopag once every other day, increase dose to 25 mg once daily.
♦ For patients taking 25 mg eltrombopag once daily, consideration should be given to dosing at 12.5 mg once daily or alternatively a dose of 25 mg once every other day.

Eltrombopag can be administered in addition to other ITP medicinal products. The dose regimen of concomitant ITP medicinal products should be modified, as medically appropriate, to avoid excessive increases in platelet counts during therapy with eltrombopag.

It is necessary to wait for at least 2 weeks to see the effect of any dose adjustment on the patient’s platelet response prior to considering another dose adjustment.

The standard eltrombopag dose adjustment, either decrease or increase, would be 25 mg once daily.

**Discontinuation**

Treatment with eltrombopag should be discontinued if the platelet count does not increase to a level sufficient to avoid clinically important bleeding after 4 weeks of eltrombopag therapy at 75 mg once daily.

Patients should be clinically evaluated periodically and continuation of treatment should be decided on an individual basis by the treating physician. In non-splenectomised patients this should include evaluation relative to splenectomy. The reoccurrence of thrombocytopenia is possible upon discontinuation of treatment (see section 4.4).

**Chronic hepatitis C (HCV) associated thrombocytopenia**

When eltrombopag is given in combination with antivirals reference should be made to the full summary of product characteristics of the respective coadministered medicinal products for comprehensive details of relevant safety information or contraindications.
In clinical studies, platelet counts generally began to increase within 1 week of starting eltrombopag. The aim of treatment with eltrombopag should be to achieve the minimum level of platelet counts needed to initiate antiviral therapy, in adherence to clinical practice recommendations. During antiviral therapy, the aim of treatment should be to keep platelet counts at a level that prevents the risk of bleeding complications, normally around 50 000-75 000/µl. Platelet counts >75 000/µl should be avoided. The lowest dose of eltrombopag needed to achieve the targets should be used. Dose adjustments are based upon the platelet count response.

Initial dose regimen
Eltrombopag should be initiated at a dose of 25 mg once daily. No dosage adjustment is necessary for HCV patients of East-/Southeast-Asian ancestry or patients with mild hepatic impairment (see section 5.2).

Monitoring and dose adjustment
The dose of eltrombopag should be adjusted in 25 mg increments every 2 weeks as necessary to achieve the target platelet count required to initiate antiviral therapy. Platelet counts should be monitored every week prior to starting antiviral therapy. On initiation of antiviral therapy the platelet count may fall, so immediate eltrombopag dose adjustments should be avoided (see Table 2).

During antiviral therapy, the dose of eltrombopag should be adjusted as necessary to avoid dose reductions of peginterferon due to decreasing platelet counts that may put patients at risk of bleeding (see Table 2). Platelet counts should be monitored weekly during antiviral therapy until a stable platelet count is achieved, normally around 50 000-75 000/µl. FBCs including platelet counts and peripheral blood smears should be obtained monthly thereafter. Dose reductions on the daily dose by 25 mg should be considered if platelet counts exceed the required target. It is recommended to wait for 2 weeks to assess the effects of this and any subsequent dose adjustments.

A dose of 100 mg eltrombopag once daily must not be exceeded.

Table 2 Dose adjustments of eltrombopag in HCV patients during antiviral therapy

<table>
<thead>
<tr>
<th>Platelet count</th>
<th>Dose adjustment or response</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;50 000/µl following at least 2 weeks of therapy</td>
<td>Increase daily dose by 25 mg to a maximum of 100 mg/day.</td>
</tr>
<tr>
<td>≥50 000/µl to ≤100 000/µl</td>
<td>Use lowest dose of eltrombopag as necessary to avoid dose reductions of peginterferon.</td>
</tr>
<tr>
<td>&gt;100 000/µl to ≤150 000/µl</td>
<td>Decrease the daily dose by 25 mg. Wait 2 weeks to assess the effects of this and any subsequent dose adjustments*.</td>
</tr>
<tr>
<td>&gt;150 000/µl</td>
<td>Stop eltrombopag; increase the frequency of platelet monitoring to twice weekly. Once the platelet count is ≤100 000/µl, reinitiate therapy at a daily dose reduced by 25 mg*.</td>
</tr>
</tbody>
</table>

* For patients taking 25 mg eltrombopag once daily, consideration should be given to reinitiating dosing at 25 mg every other day.
* On initiation of antiviral therapy the platelet count may fall, so immediate eltrombopag dose reductions should be avoided.

Discontinuation
If after 2 weeks of eltrombopag therapy at 100 mg the required platelet level to initiate antiviral therapy is not achieved, eltrombopag should be discontinued.

Eltrombopag treatment should be terminated when antiviral therapy is discontinued unless otherwise justified. Excessive platelet count responses or important liver test abnormalities also necessitate discontinuation.
**Severe aplastic anaemia**

**Initial dose regimen**
Eltrombopag should be initiated at a dose of 50 mg once daily. For patients of East-/Southeast-Asian ancestry, eltrombopag should be initiated at a reduced dose of 25 mg once daily (see section 5.2). The treatment should not be initiated when the patient has existing cytogenetic abnormalities of chromosome 7.

**Monitoring and dose adjustment**
Haematological response requires dose titration, generally up to 150 mg, and may take up to 16 weeks after starting eltrombopag (see section 5.1). The dose of eltrombopag should be adjusted in 50 mg increments every 2 weeks as necessary to achieve the target platelet count ≥50 000/μl. For patients taking 25 mg once daily, the dose should be increased to 50 mg daily before increasing the dose amount by 50 mg. A dose of 150 mg daily must not be exceeded. Clinical haematology and liver tests should be monitored regularly throughout therapy with eltrombopag and the dosage regimen of eltrombopag modified based on platelet counts as outlined in Table 3.

**Table 3  Dose adjustments of eltrombopag in patients with severe aplastic anaemia**

<table>
<thead>
<tr>
<th>Platelet count</th>
<th>Dose adjustment or response</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;50 000/μl following at least 2 weeks of therapy</td>
<td>Increase daily dose by 50 mg to a maximum of 150 mg/day. For patients taking 25 mg once daily, increase the dose to 50 mg daily before increasing the dose amount by 50 mg.</td>
</tr>
<tr>
<td>≥50 000/μl to ≤150 000/μl</td>
<td>Use lowest dose of eltrombopag to maintain platelet counts.</td>
</tr>
<tr>
<td>&gt;150 000/μl to ≤250 000/μl</td>
<td>Decrease the daily dose by 50 mg. Wait 2 weeks to assess the effects of this and any subsequent dose adjustments.</td>
</tr>
<tr>
<td>&gt;250 000/μl</td>
<td>Stop eltrombopag; for at least one week. Once the platelet count is ≤100 000/μl, reinitiate therapy at a daily dose reduced by 50 mg.</td>
</tr>
</tbody>
</table>

**Tapering for tri-lineage (white blood cells, red blood cells, and platelets) responders**
For patients who achieve tri-lineage response, including transfusion independence, lasting at least 8 weeks: the dose of eltrombopag may be reduced by 50%.

If counts remain stable after 8 weeks at the reduced dose, then eltrombopag must be discontinued and blood counts monitored. If platelet counts drop to <30 000/μl, haemoglobin drops to <9 g/dl or absolute neutrophil count (ANC) <0.5 x 10⁹/l, eltrombopag may be reinitiated at the previous effective dose.

**Discontinuation**
If no haematological response has occurred after 16 weeks of therapy with eltrombopag, therapy should be discontinued. If new cytogenetic abnormalities are detected, it must be evaluated whether continuation of eltrombopag is appropriate (see sections 4.4 and 4.8). Excessive platelet count responses (as outlined in Table 3) or important liver test abnormalities also necessitate discontinuation of eltrombopag (see section 4.8).

**Special populations**

**Renal impairment**
No dose adjustment is necessary in patients with renal impairment. Patients with impaired renal function should use eltrombopag with caution and close monitoring, for example by testing serum creatinine and/or performing urine analysis (see section 5.2).
**Hepatic impairment**

Eltrombopag should not be used in ITP patients with hepatic impairment (Child-Pugh score ≥5) unless the expected benefit outweighs the identified risk of portal venous thrombosis (see section 4.4).

If the use of eltrombopag is deemed necessary for ITP patients with hepatic impairment the starting dose must be 25 mg once daily. After initiating the dose of eltrombopag in patients with hepatic impairment an interval of 3 weeks should be observed before increasing the dose.

No dose adjustment is required for thrombocytopenic patients with chronic HCV and mild hepatic impairment (Child-Pugh score ≤6). Chronic HCV patients and severe aplastic anaemia patients with hepatic impairment should initiate eltrombopag at a dose of 25 mg once daily (see section 5.2). After initiating the dose of eltrombopag in patients with hepatic impairment an interval of 2 weeks should be observed before increasing the dose.

There is an increased risk for adverse events, including hepatic decompensation and thromboembolic events (TEEs), in thrombocytopenic patients with advanced chronic liver disease treated with eltrombopag, either in preparation for invasive procedure or in HCV patients undergoing antiviral therapy (see sections 4.4 and 4.8).

**Elderly**

There are limited data on the use of eltrombopag in ITP patients aged 65 years and older and no clinical experience in ITP patients aged over 85 years. In the clinical studies of eltrombopag, overall no clinically significant differences in safety of eltrombopag were observed between patients aged at least 65 years and younger patients. Other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out (see section 5.2).

There are limited data on the use of eltrombopag in HCV and SAA patients aged over 75 years. Caution should be exercised in these patients (see section 4.4).

**East-/Southeast-Asian patients**

For adult and paediatric patients of East-/Southeast-Asian ancestry, including those with hepatic impairment, eltrombopag should be initiated at a dose of 25 mg once daily (see section 5.2).

Patient platelet count should continue to be monitored and the standard criteria for further dose modification followed.

**Paediatric population**

Revolade is not recommended for use in children under the age of one year with ITP due to insufficient data on safety and efficacy. The safety and efficacy of eltrombopag has not been established in children and adolescents (<18 years) with chronic HCV related thrombocytopenia or SAA. No data are available.

**Method of administration**

Oral use.
The tablets should be taken at least two hours before or four hours after any products such as antacids, dairy products (or other calcium containing food products), or mineral supplements containing polyvalent cations (e.g. iron, calcium, magnesium, aluminium, selenium and zinc) (see sections 4.5 and 5.2).
4.3 Contraindications

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

4.4 Special warnings and precautions for use

There is an increased risk for adverse reactions, including potentially fatal hepatic decompensation and thromboembolic events, in thrombocytopenic HCV patients with advanced chronic liver disease, as defined by low albumin levels ≤35 g/l or model for end stage liver disease (MELD) score ≥10, when treated with eltrombopag in combination with interferon-based therapy. In addition, the benefits of treatment in terms of the proportion achieving sustained virological response (SVR) compared with placebo were modest in these patients (especially for those with baseline albumin ≤35g/l) compared with the group overall. Treatment with eltrombopag in these patients should be initiated only by physicians experienced in the management of advanced HCV, and only when the risks of thrombocytopenia or withholding antiviral therapy necessitate intervention. If treatment is considered clinically indicated, close monitoring of these patients is required.

Combination with direct-acting antiviral agents

Safety and efficacy have not been established in combination with direct-acting antiviral agents approved for treatment of chronic hepatitis C infection.

Risk of hepatotoxicity

Eltrombopag administration can cause abnormal liver function and severe hepatotoxicity, which might be life-threatening (see section 4.8).

Serum alanine aminotransferase (ALT), aspartate aminotransferase (AST) and bilirubin should be measured prior to initiation of eltrombopag, every 2 weeks during the dose adjustment phase and monthly following establishment of a stable dose. Eltrombopag inhibits UGT1A1 and OATP1B1, which may lead to indirect hyperbilirubinaemia. If bilirubin is elevated fractionation should be performed. Abnormal serum liver tests should be evaluated with repeat testing within 3 to 5 days. If the abnormalities are confirmed, serum liver tests should be monitored until the abnormalities resolve, stabilise, or return to baseline levels. Eltrombopag should be discontinued if ALT levels increase (≥3 times the upper limit of normal [x ULN] in patients with normal liver function, or ≥3 x baseline or >5 x ULN, whichever is the lower, in patients with pre-treatment elevations in transaminases) and are:

• progressive, or
• persistent for ≥4 weeks, or
• accompanied by increased direct bilirubin, or
• accompanied by clinical symptoms of liver injury or evidence for hepatic decompensation.

Caution is required when administering eltrombopag to patients with hepatic disease. In ITP and SAA patients a lower starting dose of eltrombopag should be used. Close monitoring is required when administering to patients with hepatic impairment (see section 4.2).

Hepatic decompensation (use with interferon)

Hepatic decompensation in patients with chronic hepatitis C: Monitoring is required in patients with low albumin levels (≤35 g/l) or with MELD score ≥10 at baseline.
Chronic HCV patients with liver cirrhosis may be at risk of hepatic decompensation when receiving alfa interferon therapy. In two controlled clinical studies in thrombocytopenic patients with HCV, hepatic decompensation (ascites, hepatic encephalopathy, variceal haemorrhage, spontaneous bacterial peritonitis) occurred more frequently in the eltrombopag arm (11%) than in the placebo arm (6%). In patients with low albumin levels (≤35 g/l) or with a MELD score ≥10 at baseline, there was a 3-fold greater risk of hepatic decompensation and an increase in the risk of a fatal adverse event compared to those with less advanced liver disease. In addition, the benefits of treatment in terms of the proportion achieving SVR compared with placebo were modest in these patients (especially for those with baseline albumin ≤35 g/l) compared with the group overall. Ertomobopag should only be administered to such patients after careful consideration of the expected benefits in comparison with the risks. Patients with these characteristics should be closely monitored for signs and symptoms of hepatic decompensation. The respective interferon summary of product characteristics should be referenced for discontinuation criteria. Ertomobopag should be terminated if antiviral therapy is discontinued for hepatic decompensation.

Thrombotic/thromboembolic complications

In controlled studies in thrombocytopenic patients with HCV receiving interferon-based therapy (n=1 439), 38 out of 955 patients (4%) treated with eltrombopag and 6 out of 484 patients (1%) in the placebo group experienced TEEs. Reported thrombotic/thromboembolic complications included both venous and arterial events. The majority of TEEs were non-serious and resolved by the end of the study. Portal vein thrombosis was the most common TEE in both treatment groups (2% in patients treated with eltrombopag versus <1% for placebo). No specific temporal relationship between start of treatment and event of TEE was observed. Patients with low albumin levels (≤35 g/l) or MELD ≥10 had a 2-fold greater risk of TEEs than those with higher albumin levels; those aged ≥60 years had a 2-fold greater risk of TEEs compared to younger patients. Ertomobopag should only be administered to such patients after careful consideration of the expected benefits in comparison with the risks. Patients should be closely monitored for signs and symptoms of TEE.

The risk of TEEs has been found to be increased in patients with chronic liver disease (CLD) treated with 75 mg eltrombopag once daily for 2 weeks in preparation for invasive procedures. Six of 143 (4%) adult patients with CLD receiving eltrombopag experienced TEEs (all of the portal venous system) and two of 145 (1%) patients in the placebo group experienced TEEs (one in the portal venous system and one myocardial infarction). Five of the 6 patients treated with eltrombopag experienced the thrombotic complication at a platelet count >200 000/µl and within 30 days of the last dose of eltrombopag. Ertomobopag is not indicated for the treatment of thrombocytopenia in patients with chronic liver disease in preparation for invasive procedures.

In eltrombopag clinical studies in ITP thromboembolic events were observed at low and normal platelet counts. Caution should be used when administering eltrombopag to patients with known risk factors for thromboembolism including but not limited to inherited (e.g. Factor V Leiden) or acquired risk factors (e.g. ATIII deficiency, antiphospholipid syndrome), advanced age, patients with prolonged periods of immobilisation, malignancies, contraceptives and hormone replacement therapy, surgery/trauma, obesity and smoking. Platelet counts should be closely monitored and consideration given to reducing the dose or discontinuing eltrombopag treatment if the platelet count exceeds the target levels (see section 4.2). The risk-benefit balance should be considered in patients at risk of TEEs of any aetiology.

No case of TEE was identified from a clinical study in refractory SAA, however the risk of these events cannot be excluded in this patient population due to the limited number of exposed patients. As the highest authorised dose is indicated for patients with SAA (150 mg/day) and due to the nature of the reaction, TEEs might be expected in this patient population.

Eltrombopag should not be used in ITP patients with hepatic impairment (Child-Pugh score ≥5) unless the expected benefit outweighs the identified risk of portal venous thrombosis. When treatment is considered appropriate, caution is required when administering eltrombopag to patients with hepatic impairment (see sections 4.2 and 4.8).
Bleeding following discontinuation of eltrombopag

Thrombocytopenia is likely to reoccur in ITP patients upon discontinuation of treatment with eltrombopag. Following discontinuation of eltrombopag, platelet counts return to baseline levels within 2 weeks in the majority of patients, which increases the bleeding risk and in some cases may lead to bleeding. This risk is increased if eltrombopag treatment is discontinued in the presence of anticoagulants or anti-platelet agents. It is recommended that, if treatment with eltrombopag is discontinued, ITP treatment be restarted according to current treatment guidelines. Additional medical management may include cessation of anticoagulant and/or anti-platelet therapy, reversal of anticoagulation, or platelet support. Platelet counts must be monitored weekly for 4 weeks following discontinuation of eltrombopag.

In HCV clinical studies, a higher incidence of gastrointestinal bleeding, including serious and fatal cases, was reported following discontinuation of peginterferon, ribavirin, and eltrombopag. Following discontinuation of therapy, patients should be monitored for any signs or symptoms of gastrointestinal bleeding.

Bone marrow reticulin formation and risk of bone marrow fibrosis

Eltrombopag may increase the risk for development or progression of reticulin fibres within the bone marrow. The relevance of this finding, as with other thrombopoietin-receptor (TPO-R) agonists, has not been established yet.

Prior to initiation of eltrombopag, the peripheral blood smear should be examined closely to establish a baseline level of cellular morphologic abnormalities. Following identification of a stable dose of eltrombopag, full blood count (FBC) with white blood cell count (WBC) differential should be performed monthly. If immature or dysplastic cells are observed, peripheral blood smears should be examined for new or worsening morphological abnormalities (e.g. teardrop and nucleated red blood cells, immature white blood cells) or cytopenia(s). If the patient develops new or worsening morphological abnormalities or cytopenia(s), treatment with eltrombopag should be discontinued and a bone marrow biopsy considered, including staining for fibrosis.

Progression of existing myelodysplastic syndrome (MDS)

There is a theoretical concern that TPO-R agonists may stimulate the progression of existing haematological malignancies such as MDS. TPO-R agonists are growth factors that lead to thrombopoietic progenitor cell expansion, differentiation and platelet production. The TPO-R is predominantly expressed on the surface of cells of the myeloid lineage.

In clinical studies with a TPO-R agonist in patients with MDS, cases of transient increases in blast cell counts were observed and cases of MDS disease progression to acute myeloid leukaemia (AML) were reported.

The diagnosis of ITP or SAA in adults and elderly patients should be confirmed by the exclusion of other clinical entities presenting with thrombocytopenia, in particular the diagnosis of MDS must be excluded. Consideration should be given to performing a bone marrow aspirate and biopsy over the course of the disease and treatment, particularly in patients over 60 years of age, those with systemic symptoms, or abnormal signs such as increased peripheral blast cells.

The effectiveness and safety of Revolade have not been established for the treatment of thrombocytopenia due to MDS. Revolade should not be used outside of clinical studies for the treatment of thrombocytopenia due to MDS.
Cytogenetic abnormalities and progression to MDS/AML in patients with SAA

Cytogenetic abnormalities are known to occur in SAA patients. It is not known whether eltrombopag increases the risk of cytogenetic abnormalities in patients with SAA. In the phase II refractory SAA clinical study with eltrombopag with a starting dose of 50 mg/day (escalated every 2 weeks to a maximum of 150 mg/day) (ELT112523), the incidence of new cytogenetic abnormalities was observed in 17.1% of adult patients [7/41 (where 4 of them had changes in chromosome 7)]. The median time on study to a cytogenetic abnormality was 2.9 months.

In the phase II refractory SAA clinical study with eltrombopag at a dose of 150 mg/day (with ethnic or age related modifications as indicated) (ELT116826), the incidence of new cytogenetic abnormalities was observed in 22.6% of adult patients [7/31 (where 3 of them had changes in chromosome 7)]. All 7 patients had normal cytogenetics at baseline. Six patients had cytogenetic abnormality at Month 3 of eltrombopag therapy and one patient had cytogenetic abnormality at Month 6.

In clinical studies with eltrombopag in SAA, 4% of patients (5/133) were diagnosed with MDS. The median time to diagnosis was 3 months from the start of eltrombopag treatment.

For SAA patients refractory to or heavily pretreated with prior immunosuppressive therapy, bone marrow examination with aspirations for cytogenetics is recommended prior to initiation of eltrombopag, at 3 months of treatment and 6 months thereafter. If new cytogenetic abnormalities are detected, it must be evaluated whether continuation of eltrombopag is appropriate.

Ocular changes

Cataracts were observed in toxicology studies of eltrombopag in rodents (see section 5.3). In controlled studies in thrombocytopenic patients with HCV receiving interferon therapy (n=1439), progression of pre-existing baseline cataract(s) or incident cataracts was reported in 8% of the eltrombopag group and 5% of the placebo group. Retinal haemorrhages, mostly Grade 1 or 2, have been reported in HCV patients receiving interferon, ribavirin and eltrombopag (2% of the eltrombopag group and 2% of the placebo group. Haemorrhages occurred on the surface of the retina (preretinal), under the retina (subretinal), or within the retinal tissue. Routine ophthalmologic monitoring of patients is recommended.

QT/QTc prolongation

A QTc study in healthy volunteers dosed 150 mg eltrombopag per day did not show a clinically significant effect on cardiac repolarisation. QTc interval prolongation has been reported in clinical studies of patients with ITP and thrombocytopenic patients with HCV. The clinical significance of these QTc prolongation events is unknown.

Loss of response to eltrombopag

A loss of response or failure to maintain a platelet response with eltrombopag treatment within the recommended dosing range should prompt a search for causative factors, including an increased bone marrow reticulin.

Paediatric population

The above warnings and precautions for ITP also apply to the paediatric population.

Interference with laboratory tests

Eltrombopag is highly coloured and so has the potential to interfere with some laboratory tests. Serum discoloration and interference with total bilirubin and creatinine testing have been reported in patients taking Revolade. If the laboratory results and clinical observations are inconsistent, re-testing using another method may help in determining the validity of the result.
Sodium content

This medicinal product contains less than 1 mmol sodium (23 mg) per film-coated tablet, that is to say essentially ‘sodium-free’.

4.5 Interaction with other medicinal products and other forms of interaction

Effects of eltrombopag on other medicinal products

HMG CoA reductase inhibitors

Administration of eltrombopag 75 mg once daily for 5 days with a single 10 mg dose of the OATP1B1 and BCRP substrate rosuvastatin to 39 healthy adult subjects increased plasma rosuvastatin $C_{\text{max}}$ 103% (90% confidence interval [CI]: 82%, 126%) and AUC$_{0-\infty}$ 55% (90% CI: 42%, 69%). Interactions are also expected with other HMG-CoA reductase inhibitors, including atorvastatin, fluvastatin, lovastatin, pravastatin and simvastatin. When co-administered with eltrombopag, a reduced dose of statins should be considered and careful monitoring for statin adverse reactions should be undertaken (see section 5.2).

OATP1B1 and BCRP substrates

Concomitant administration of eltrombopag and OATP1B1 (e.g. methotrexate) and BCRP (e.g. topotecan and methotrexate) substrates should be undertaken with caution (see section 5.2).

Cytochrome P450 substrates

In studies utilising human liver microsomes, eltrombopag (up to 100 µM) showed no in vitro inhibition of the CYP450 enzymes 1A2, 2A6, 2C19, 2D6, 2E1, 3A4/5, and 4A9/11 and was an inhibitor of CYP2C8 and CYP2C9 as measured using paclitaxel and diclofenac as the probe substrates. Administration of eltrombopag 75 mg once daily for 7 days to 24 healthy male subjects did not inhibit or induce the metabolism of probe substrates for 1A2 (caffeine), 2C19 (omeprazole), 2C9 (flurbiprofen), or 3A4 (midazolam) in humans. No clinically significant interactions are expected when eltrombopag and CYP450 substrates are co-administered (see section 5.2).

HCV protease inhibitors

Dose adjustment is not required when eltrombopag is co-administered with either telaprevir or boceprevir. Co-administration of a single dose of eltrombopag 200 mg with telaprevir 750 mg every 8 hours did not alter plasma telaprevir exposure.

Co-administration of a single dose of eltrombopag 200 mg with boceprevir 800 mg every 8 hours did not alter plasma boceprevir AUC$_{0-\tau}$, but increased $C_{\text{max}}$ by 20%, and decreased $C_{\text{min}}$ by 32%. The clinical relevance of the decrease in $C_{\text{min}}$ has not been established, increased clinical and laboratory monitoring for HCV suppression is recommended.

Effects of other medicinal products on eltrombopag

Ciclosporin

A decrease in eltrombopag exposure was observed with co-administration of 200 mg and 600 mg ciclosporin (a BCRP inhibitor). The co-administration of 200 mg ciclosporin decreased the $C_{\text{max}}$ and the AUC$_{0-\infty}$ of eltrombopag by 25% and 18%, respectively. The co-administration of 600 mg ciclosporin decreased the $C_{\text{max}}$ and the AUC$_{0-\infty}$ of eltrombopag by 39% and 24%, respectively. Elnrombopag dose adjustment is permitted during the course of the treatment based on the patient’s platelet count (see section 4.2). Platelet count should be monitored at least weekly for 2 to 3 weeks when eltrombopag is co-administered with ciclosporin. Elnrombopag dose may need to be increased based on these platelet counts.
**Polyvalent cations (chelation)**

Eltrombopag chelates with polyvalent cations such as iron, calcium, magnesium, aluminium, selenium and zinc. Administration of a single dose of eltrombopag 75 mg with a polyvalent cation-containing antacid (1 524 mg aluminium hydroxide and 1 425 mg magnesium carbonate) decreased plasma eltrombopag $AUC_{0-\infty}$ by 70% (90% CI: 64%, 76%) and $C_{\text{max}}$ by 70% (90% CI: 62%, 76%). Eltrombopag should be taken at least two hours before or four hours after any products such as antacids, dairy products or mineral supplements containing polyvalent cations to avoid significant reduction in eltrombopag absorption due to chelation (see sections 4.2 and 5.2).

**Lopinavir/ritonavir**

Co-administration of eltrombopag with lopinavir/ritonavir may cause a decrease in the concentration of eltrombopag. A study in 40 healthy volunteers showed that the co-administration of a single 100 mg dose of eltrombopag with repeat dose lopinavir/ritonavir 400/100 mg twice daily resulted in a reduction in eltrombopag plasma $AUC_{0-\infty}$ by 17% (90% CI: 6.6%, 26.6%). Therefore, caution should be used when co-administration of eltrombopag with lopinavir/ritonavir takes place. Platelet count should be closely monitored in order to ensure appropriate medical management of the dose of eltrombopag when lopinavir/ritonavir therapy is initiated or discontinued.

**CYP1A2 and CYP2C8 inhibitors and inducers**

Eltrombopag is metabolised through multiple pathways including CYP1A2, CYP2C8, UGT1A1, and UGT1A3 (see section 5.2). Medicinal products that inhibit or induce a single enzyme are unlikely to significantly affect plasma eltrombopag concentrations, whereas medicinal products that inhibit or induce multiple enzymes have the potential to increase (e.g. fluvoxamine) or decrease (e.g. rifampicin) eltrombopag concentrations.

**HCV protease inhibitors**

Results of a drug-drug pharmacokinetic (PK) interaction study show that co-administration of repeat doses of boceprevir 800 mg every 8 hours or telaprevir 750 mg every 8 hours with a single dose of eltrombopag 200 mg did not alter plasma eltrombopag exposure to a clinically significant extent.

**Medicinal products for treatment of ITP**

Medicinal products used in the treatment of ITP in combination with eltrombopag in clinical studies included corticosteroids, danazol, and/or azathioprine, intravenous immunoglobulin (IVIG), and anti-D immunoglobulin. Platelet counts should be monitored when combining eltrombopag with other medicinal products for the treatment of ITP in order to avoid platelet counts outside of the recommended range (see section 4.2).

**Food interaction**

The administration of eltrombopag tablet or powder for oral suspension formulations with a high-calcium meal (e.g. a meal that included dairy products) significantly reduced plasma eltrombopag $AUC_{0-\infty}$ and $C_{\text{max}}$. In contrast, the administration of eltrombopag 2 hours before or 4 hours after a high-calcium meal or with low-calcium food [<50 mg calcium] did not alter plasma eltrombopag exposure to a clinically significant extent (see section 4.2).

Administration of a single 50 mg dose of eltrombopag in tablet form with a standard high-calorie, high-fat breakfast that included dairy products reduced plasma eltrombopag mean $AUC_{0-\infty}$ by 59% and mean $C_{\text{max}}$ by 65%.
Administration of a single 25 mg dose of eltrombopag as powder for oral suspension with a high-calcium, moderate-fat and moderate-calorie meal reduced plasma eltrombopag mean AUC\textsubscript{0-\infty} by 75% and mean C\textsubscript{max} by 79%. This decrease of exposure was attenuated when a single 25 mg dose of eltrombopag powder for oral suspension was administered 2 hours before a high-calcium meal (mean AUC\textsubscript{0-\infty} was decreased by 20% and mean C\textsubscript{max} by 14%).

Food low in calcium (<50 mg calcium), including fruit, lean ham, beef and unfortified (no added calcium, magnesium or iron) fruit juice, unfortified soya milk and unfortified grain, did not significantly impact plasma eltrombopag exposure, regardless of calorie and fat content (see sections 4.2 and 4.5).

4.6 Fertility, pregnancy and lactation

Pregnancy

There are no or limited amount of data from the use of eltrombopag in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). The potential risk for humans is unknown.

Revolade is not recommended during pregnancy.

Women of childbearing potential / Contraception in males and females

Revolade is not recommended in women of childbearing potential not using contraception.

Breast-feeding

It is not known whether eltrombopag/metabolites are excreted in human milk. Studies in animals have shown that eltrombopag is likely secreted into milk (see section 5.3); therefore a risk to the suckling child cannot be excluded. A decision must be made whether to discontinue breast-feeding or to continue/abstain from Revolade therapy, taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman.

Fertility

Fertility was not affected in male or female rats at exposures that were comparable to those in humans. However a risk for humans cannot be ruled out (see section 5.3).

4.7 Effects on ability to drive and use machines

Eltrombopag has negligible influence on the ability to drive and use machines. The clinical status of the patient and the adverse reaction profile of eltrombopag, including dizziness and lack of alertness, should be borne in mind when considering the patient’s ability to perform tasks that require judgement, motor and cognitive skills.
4.8 Undesirable effects

Summary of the safety profile

Immune thrombocytopenia in adult and paediatric patients

The safety of Revolade was assessed in adult patients (N=763) using the pooled double-blind, placebo-controlled studies TRA100773A and B, TRA102537 (RAISE) and TRA113765, in which 403 patients were exposed to Revolade and 179 to placebo, in addition to data from the completed open-label studies (N=360) TRA108057 (REPEAT), TRA105325 (EXTEND) and TRA112940 (see section 5.1). Patients received study medication for up to 8 years (in EXTEND). The most important serious adverse reactions were hepatotoxicity and thrombotic/thromboembolic events. The most common adverse reactions occurring in at least 10% of patients included nausea, diarrhoea, increased alanine aminotransferase and back pain.

The safety of Revolade in paediatric patients (aged 1 to 17 years) with previously treated ITP has been demonstrated in two studies (N=171) (see section 5.1). PETIT2 (TRA115450) was a two-part, double-blind and open-label, randomised, placebo-controlled study. Patients were randomised 2:1 and received Revolade (n=63) or placebo (n=29) for up to 13 weeks in the randomised period of the study. PETIT (TRA108062) was a three-part, staggered-cohort, open-label and double-blind, randomised, placebo-controlled study. Patients were randomised 2:1 and received Revolade (n=44) or placebo (n=21), for up to 7 weeks. The profile of adverse reactions was comparable to that seen in adults with some additional adverse reactions, marked ♦ in the table below. The most common adverse reactions in paediatric ITP patients 1 year and older (≥3% and greater than placebo) were upper respiratory tract infection, nasopharyngitis, cough, pyrexia, abdominal pain, oropharyngeal pain, toothache and rhinorrhoea.

Thrombocytopenia with HCV infection in adult patients

ENABLE 1 (TPL103922 n=716, 715 treated with eltrombopag) and ENABLE 2 (TPL108390 n=805) were randomised, double-blind, placebo-controlled, multicentre studies to assess the efficacy and safety of Revolade in thrombocytopenic patients with HCV infection who were otherwise eligible to initiate antiviral therapy. In the HCV studies the safety population consisted of all randomised patients who received double-blind study medicinal product during Part 2 of ENABLE 1 (Revolade treatment n=450, placebo treatment n=232) and ENABLE 2 (Revolade treatment n=506, placebo treatment n=252). Patients are analysed according to the treatment received (total safety double-blind population, Revolade n=955 and placebo n=484). The most important serious adverse reactions identified were hepatotoxicity and thrombotic/thromboembolic events. The most common adverse reactions occurring in at least 10% of patients included headache, anaemia, decreased appetite, cough, nausea, diarrhoea, hyperbilirubinaemia, alopecia, pruritus, myalgia, pyrexia, fatigue, influenza-like illness, asthenia, chills and oedema.

Severe aplastic anaemia in adult patients

The safety of Revolade in severe aplastic anaemia was assessed in a single-arm, open-label study (N=43) in which 11 patients (26%) were treated for >6 months and 7 patients (16%) were treated for >1 year (see section 5.1). The most common adverse reactions occurring in at least 10% of patients included headache, dizziness, cough, oropharyngeal pain, rhinorrhea, nausea, diarrhoea, abdominal pain, transaminases increased, arthralgia, pain in extremity, muscle spasms, fatigue and pyrexia.
<table>
<thead>
<tr>
<th>System organ class</th>
<th>Frequency</th>
<th>Adverse reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Very common</td>
<td>Nasopharyngitis*, upper respiratory tract infection*</td>
</tr>
<tr>
<td>Common</td>
<td>Pharyngitis, influenza, oral herpes, pneumonia, sinusitis, tonsillitis, respiratory tract infection, gingivitis</td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Skin infection</td>
<td></td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Uncommon</td>
<td>Rectosigmoid cancer</td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Common</td>
<td>Anaemia, eosinophilia, leukocytosis, thrombocytopenia, haemoglobin decreased, white blood cell count decreased</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Anisocytosis, haemolytic anaemia, myelocytosis, band neutrophil count increased, myelocyte present, platelet count increased, haemoglobin increased</td>
<td></td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Uncommon</td>
<td>Hypersensitivity</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Common</td>
<td>Hypokalaemia, decreased appetite, blood uric acid increased</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Anorexia, gout, hypocalcaemia</td>
<td></td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td>Common</td>
<td>Sleep disorder, depression</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Apathy, mood altered, tearfulness</td>
<td></td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Common</td>
<td>Paraesthesia, hypoesthesia, somnolence, migraine</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Tremor, balance disorder, dysaesthesia, hemiparesis, migraine with aura, neuropathy peripheral, peripheral sensory neuropathy, speech disorder, toxic neuropathy, vascular headache</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Common</td>
<td>Dry eye, vision blurred, eye pain, visual acuity reduced</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Lenticular opacities, astigmatism, cataract cortical, lacrimation increased, retinal haemorrhage, retinal pigment epitheliopathy, visual impairment, visual acuity tests abnormal, blepharitis, keratoconjunctivitis sicca</td>
<td></td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td>Common</td>
<td>Ear pain, vertigo</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Uncommon</td>
<td>Tachycardia, acute myocardial infarction, cardiovascular disorder, cyanosis, sinus tachycardia, electrocardiogram QT prolonged</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Common</td>
<td>Deep vein thrombosis, haematoma, hot flush</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Embolism, thrombophlebitis superficial, flushing</td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Very common</td>
<td>Cough*</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Oropharyngeal pain*, rhinorrhoea*</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Pulmonary embolism, pulmonary infarction, nasal discomfort, oropharyngeal blistering, sinus disorder, sleep apnoea syndrome</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Very common</td>
<td>Nausea, diarrhoea</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Mouth ulceration, toothache*, vomiting, abdominal pain*, mouth haemorrhage, flatulence</td>
</tr>
<tr>
<td></td>
<td>* Very common in paediatric ITP</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Dry mouth, glossodynia, abdominal tenderness, faeces discoloured, food poisoning, frequent bowel movements, haematemesis, oral discomfort</td>
</tr>
<tr>
<td>Hepatobiliary disorders</td>
<td>Very common</td>
<td>Alanine aminotransferase increased†</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Aspartate aminotransferase increased†, hyperbilirubinaemia, hepatic function abnormal</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Cholestasis, hepatic lesion, hepatitis, drug-induced liver injury</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Common</td>
<td>Rash, alopecia, hyperhidrosis, pruritus generalised, petechiae</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Urticaria, dermatosis, cold sweat, erythema, melanosis, pigmentation disorder, skin discoulouration, skin exfoliation</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Very common</td>
<td>Back pain</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Myalgia, muscle spasm, musculoskeletal pain, bone pain</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Muscular weakness</td>
</tr>
<tr>
<td>Renal and urinary disorders</td>
<td>Common</td>
<td>Proteinuria, blood creatinine increased, thrombotic microangiopathy with renal failure‡</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Renal failure, leukocyturia, lupus nephritis, nocturia, blood urea increased, urine protein/creatinine ratio increased</td>
</tr>
<tr>
<td>Reproductive system and breast disorders</td>
<td>Common</td>
<td>Menorrhagia</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Common</td>
<td>Pyrexia*, chest pain, asthenia</td>
</tr>
<tr>
<td></td>
<td>* Very common in paediatric ITP</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Feeling hot, vessel puncture site haemorrhage, feeling jittery, inflammation of wound, malaise, sensation of foreign body</td>
</tr>
<tr>
<td>Investigations</td>
<td>Common</td>
<td>Blood alkaline phosphatase increased</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Blood albumin increased, protein total increased, blood albumin decreased, pH urine increased</td>
</tr>
<tr>
<td>Injury, poisoning and procedural complications</td>
<td>Uncommon</td>
<td>Sunburn</td>
</tr>
</tbody>
</table>

* Additional adverse reactions observed in paediatric studies (aged 1 to 17 years).
† Increase of alanine aminotransferase and aspartate aminotransferase may occur simultaneously, although at a lower frequency.
‡ Grouped term with preferred terms acute kidney injury and renal failure
### HCV study population (in combination with anti-viral interferon and ribavirin therapy)

<table>
<thead>
<tr>
<th>System organ class</th>
<th>Frequency</th>
<th>Adverse reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Common</td>
<td>Urinary tract infection, upper respiratory tract infection, bronchitis, nasopharyngitis, influenza, oral herpes</td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Common</td>
<td>Hepatic neoplasm malignant</td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Very common</td>
<td>Anaemia</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Lymphopenia</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Haemolytic anaemia</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Very common</td>
<td>Decreased appetite</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Hyperglycaemia, abnormal loss of weight</td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td>Common</td>
<td>Depression, anxiety, sleep disorder</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Confusional state, agitation</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Very common</td>
<td>Headache</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Dizziness, disturbance in attention, dysgeusia, hepatic encephalopathy, lethargy, memory impairment, paraesthesia</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Common</td>
<td>Cataract, retinal exudates, dry eye, ocular icterus, retinal haemorrhage</td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td>Common</td>
<td>Vertigo</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Common</td>
<td>Palpitations</td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Very common</td>
<td>Cough</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Dyspnoea, oropharyngeal pain, dyspnoea exertional, productive cough</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Very common</td>
<td>Nausea, diarrhoea</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Vomiting, ascites, abdominal pain, abdominal pain upper, dyspepsia, dry mouth, constipation, abdominal distension, toothache, stomatitis, gastrooesophageal reflux disease, haemorrhoids, abdominal discomfort, varices oesophageal</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Oesophageal varices haemorrhage, gastritis, aphthous stomatitis</td>
</tr>
<tr>
<td>Hepatobiliary disorders</td>
<td>Common</td>
<td>Hyperbilirubinaemia, jaundice, drug-induced liver injury</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Portal vein thrombosis, hepatic failure</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Very common</td>
<td>Pruritus</td>
</tr>
<tr>
<td>---------------------------------------</td>
<td>-------------</td>
<td>---------</td>
</tr>
<tr>
<td>Common</td>
<td>Rash, dry skin, eczema, rash pruritic, erythema, hyperhidrosis, pruritus generalised, alopecia</td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Skin lesion, skin discolouration, skin hyperpigmentation, night sweats</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorder</td>
<td>Very common</td>
<td>Myalgia</td>
</tr>
<tr>
<td>Common</td>
<td>Arthralgia, muscle spasms, back pain, pain in extremity, musculoskeletal pain, bone pain</td>
<td></td>
</tr>
<tr>
<td>Renal and urinary disorders</td>
<td>Uncommon</td>
<td>Thrombotic microangiopathy with acute renal failure†, dysuria</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Very common</td>
<td>Pyrexia, fatigue, influenza-like illness, asthenia, chills</td>
</tr>
<tr>
<td>Common</td>
<td>Irritability, pain, malaise, injection site reaction, non-cardiac chest pain, oedema, oedema peripheral</td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Injection site pruritus, injection site rash, chest discomfort</td>
<td></td>
</tr>
<tr>
<td>Investigations</td>
<td>Common</td>
<td>Blood bilirubin increased, weight decreased, white blood cell count decreased, haemoglobin decreased, neutrophil count decreased, international normalised ratio increased, activated partial thromboplastin time prolonged, blood glucose increased, blood albumin decreased</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Electrocardiogram QT prolonged</td>
<td></td>
</tr>
</tbody>
</table>

† Grouped term with preferred terms oliguria, renal failure and renal impairment
SAA study population

<table>
<thead>
<tr>
<th>System organ class</th>
<th>Frequency</th>
<th>Adverse reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Common</td>
<td>Neutropenia, splenic infarction</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Common</td>
<td>Iron overload, decreased appetite, hypoglycaemia, increased appetite</td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td>Common</td>
<td>Anxiety, depression</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Very common</td>
<td>Headache, dizziness</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Syncope</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Common</td>
<td>Dry eye, cataract, ocular icterus, vision blurred, visual impairment, vitreous floaters</td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Very common</td>
<td>Cough, oropharyngeal pain, rhinorrhea</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Epistaxis</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Very common</td>
<td>Diarrhoea, nausea, gingival bleeding, abdominal pain</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Oral mucosal blistering, oral pain, vomiting, abdominal discomfort, constipation, abdominal distension, dysphagia, faeces discoloured, swollen tongue, gastrointestinal motility disorder, flatulence</td>
</tr>
<tr>
<td>Hepatobiliary disorders</td>
<td>Very common</td>
<td>Transaminases increased</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Blood bilirubin increased (hyperbilirubinemia), jaundice</td>
</tr>
<tr>
<td></td>
<td>Not known</td>
<td>Drug-induced liver injury*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Cases of drug-induced liver injury have been reported in patients with ITP and HCV</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Common</td>
<td>Petechiae, rash, pruritus, urticaria, skin lesion, rash macular</td>
</tr>
<tr>
<td></td>
<td>Not known</td>
<td>Skin discolouration, skin hyperpigmentation</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Very common</td>
<td>Arthralgia, pain in extremity, muscle spasms</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Back pain, myalgia, bone pain</td>
</tr>
<tr>
<td>Renal and urinary disorders</td>
<td>Common</td>
<td>Chromaturia</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Very common</td>
<td>Fatigue, pyrexia, chills</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Asthenia, oedema peripheral, malaise</td>
</tr>
<tr>
<td>Investigations</td>
<td>Common</td>
<td>Blood creatine phosphokinase increased</td>
</tr>
</tbody>
</table>

Description of selected adverse reactions

**Thrombotic/thromboembolic events (TEEs)**

In 3 controlled and 2 uncontrolled clinical studies among adult ITP patients receiving eltrombopag (n=446), 17 patients experienced a total of 19 TEEs, which included (in descending order of occurrence) deep vein thrombosis (n=6), pulmonary embolism (n=6), acute myocardial infarction (n=2), cerebral infarction (n=2), embolism (n=1) (see section 4.4).

In a placebo-controlled study (n=288, Safety population), following 2 weeks’ treatment in preparation for invasive procedures, 6 of 143 (4%) adult patients with chronic liver disease receiving eltrombopag experienced 7 TEEs of the portal venous system and 2 of 145 (1%) patients in the placebo group experienced 3 TEEs. Five of the 6 patients treated with eltrombopag experienced the TEE at a platelet count >200 000/µl.
No specific risk factors were identified in those patients who experienced a TEE with the exception of platelet counts ≥200 000/µl (see section 4.4).

In controlled studies in thrombocytopenic patients with HCV (n=1 439), 38 out of 955 patients (4%) treated with eltrombopag experienced a TEE and 6 out of 484 patients (1%) in the placebo group experienced TEEs. Portal vein thrombosis was the most common TEE in both treatment groups (2% in patients treated with eltrombopag versus < 1% for placebo) (see section 4.4). Patients with low albumin levels (≤ 35 g/l) or MELD ≥10 had a 2-fold greater risk of TEEs than those with higher albumin levels; those aged ≥60 years had a 2-fold greater risk of TEEs compared to younger patients.

**Hepatic decompensation (use with interferon)**

Chronic HCV patients with cirrhosis may be at risk of hepatic decompensation when receiving alfa interferon therapy. In 2 controlled clinical studies in thrombocytopenic patients with HCV, hepatic decompensation (ascites, hepatic encephalopathy, variceal haemorrhage, spontaneous bacterial peritonitis) was reported more frequently in the eltrombopag arm (11%) than in the placebo arm (6%). In patients with low albumin levels (≤35 g/l) or MELD score ≥10 at baseline, there was a 3-fold greater risk of hepatic decompensation and an increase in the risk of a fatal adverse event compared to those with less advanced liver disease. Eltrombopag should only be administered to such patients after careful consideration of the expected benefits in comparison with the risks. Patients with these characteristics should be closely monitored for signs and symptoms of hepatic decompensation (see section 4.4).

**Hepatotoxicity**

In the controlled clinical studies in chronic ITP with eltrombopag, increases in serum ALT, AST and bilirubin were observed (see section 4.4).

These findings were mostly mild (Grade 1-2), reversible and not accompanied by clinically significant symptoms that would indicate an impaired liver function. Across the 3 placebo-controlled studies in adults with chronic ITP, 1 patient in the placebo group and 1 patient in the eltrombopag group experienced a Grade 4 liver test abnormality. In two placebo-controlled studies in paediatric patients (aged 1 to 17 years) with chronic ITP, ALT ≥3 x ULN was reported in 4.7% and 0% of the eltrombopag and placebo groups, respectively.

In 2 controlled clinical studies in patients with HCV, ALT or AST ≥3 x ULN was reported in 34% and 38% of the eltrombopag and placebo groups, respectively. Most patients receiving eltrombopag in combination with peginterferon / ribavirin therapy will experience indirect hyperbilirubinaemia. Overall, total bilirubin ≥1.5 x ULN was reported in 76% and 50% of the eltrombopag and placebo groups, respectively.

In the single-arm phase II monotherapy refractory SAA study, concurrent ALT or AST >3 x ULN with total (indirect) bilirubin >1.5 x ULN were reported in 5% of patients. Total bilirubin >1.5 x ULN occurred in 14% of patients.

**Thrombocytopenia following discontinuation of treatment**

In the 3 controlled clinical ITP studies, transient decreases in platelet counts to levels lower than baseline were observed following discontinuation of treatment in 8% and 8% of the eltrombopag and placebo groups, respectively (see section 4.4).

**Increased bone marrow reticulin**

Across the programme, no patients had evidence of clinically relevant bone marrow abnormalities or clinical findings that would indicate bone marrow dysfunction. In a small number of ITP patients, eltrombopag treatment was discontinued due to bone marrow reticulin (see section 4.4).
**Cytogenetic abnormalities**

In the phase II refractory SAA clinical study with eltrombopag with a starting dose of 50 mg/day (escalated every 2 weeks to a maximum of 150 mg/day) (ELT112523), the incidence of new cytogenetic abnormalities was observed in 17.1% of adult patients [7/41 (where 4 of them had changes in chromosome 7)]. The median time on study to a cytogenetic abnormality was 2.9 months.

In the phase II refractory SAA clinical study with eltrombopag at a dose of 150 mg/day (with ethnic or age related modifications as indicated) (ELT116826), the incidence of new cytogenetic abnormalities was observed in 22.6% of adult patients [7/31 (where 3 of them had changes in chromosome 7)]. All 7 patients had normal cytogenetics at baseline. Six patients had cytogenetic abnormality at Month 3 of eltrombopag therapy and one patient had cytogenetic abnormality at Month 6.

**Haematologic malignancies**

In the single-arm, open-label study in SAA, three (7%) patients were diagnosed with MDS following treatment with eltrombopag, in the two ongoing studies (ELT116826 and ELT116643), 1/28 (4%) and 1/62 (2%) patient has been diagnosed with MDS or AML in each study.

** 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**

In the event of overdose, platelet counts may increase excessively and result in thrombotic/thromboembolic complications. In case of an overdose, consideration should be given to oral administration of a metal cation-containing preparation, such as calcium, aluminium, or magnesium preparations to chelate eltrombopag and thus limit absorption. Platelet counts should be closely monitored. Treatment with eltrombopag should be reinitiated in accordance with dosing and administration recommendations (see section 4.2).

In the clinical studies there was one report of overdose where the patient ingested 5 000 mg of eltrombopag. Reported adverse reactions included mild rash, transient bradycardia, ALT and AST elevation, and fatigue. Liver enzymes measured between Days 2 and 18 after ingestion peaked at a 1.6-fold ULN in AST, a 3.9-fold ULN in ALT, and a 2.4-fold ULN in total bilirubin. The platelet counts were 672 000/µl on Day 18 after ingestion and the maximum platelet count was 929 000/µl. All events were resolved without sequelae following treatment.

Because eltrombopag is not significantly renally excreted and is highly bound to plasma proteins, haemodialysis would not be expected to be an effective method to enhance the elimination of eltrombopag.
5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Antihemorrhagics, other systemic hemostatics. ATC code: B02BX 05.

Mechanism of action

TPO is the main cytokine involved in regulation of megakaryopoiesis and platelet production, and is the endogenous ligand for the TPO-R. Eltrombopag interacts with the transmembrane domain of the human TPO-R and initiates signalling cascades similar but not identical to that of endogenous thrombopoietin (TPO), inducing proliferation and differentiation from bone marrow progenitor cells.

Clinical efficacy and safety

Immune (primary) thrombocytopenia (ITP) studies

Two phase III, randomised, double-blind, placebo-controlled studies RAISE (TRA102537) and TRA100773B and two open-label studies REPEAT (TRA108057) and EXTEND (TRA105325) evaluated the safety and efficacy of eltrombopag in adult patients with previously treated ITP. Overall, eltrombopag was administered to 277 ITP patients for at least 6 months and 202 patients for at least 1 year. The single-arm phase II study TAPER (CETB115J2411) evaluated the safety and efficacy of eltrombopag and its ability to induce sustained response after treatment discontinuation in 105 adult ITP patients who relapsed or failed to respond to first-line corticosteroid treatment.

Double-blind placebo-controlled studies

RAISE:

197 ITP patients were randomised 2:1, eltrombopag (n=135) to placebo (n=62), and randomisation was stratified based upon splenectomy status, use of ITP medicinal products at baseline and baseline platelet count. The dose of eltrombopag was adjusted during the 6-month treatment period based on individual platelet counts. All patients initiated treatment with eltrombopag 50 mg. From Day 29 to the end of treatment, 15 to 28% of eltrombopag-treated patients were maintained on ≤25 mg and 29 to 53% received 75 mg.

In addition, patients could taper off concomitant ITP medicinal products and receive rescue treatments as dictated by local standard of care. More than half of all patients in each treatment group had ≥3 prior ITP therapies and 36% had a prior splenectomy.

Median platelet counts at baseline were 16 000/µl for both treatment groups and in the eltrombopag group were maintained above 50 000/µl at all on-therapy visits starting at Day 15; in contrast, median platelet counts in the placebo group remained <30 000/µl throughout the study.

Platelet count response between 50 000-400 000/µl in the absence of rescue treatment was achieved by significantly more patients in the eltrombopag treated group during the 6-month treatment period, p <0.001. Fifty-four percent of the eltrombopag-treated patients and 13% of placebo-treated patients achieved this level of response after 6 weeks of treatment. A similar platelet response was maintained throughout the study, with 52% and 16% of patients responding at the end of the 6-month treatment period.
### Table 4  Secondary efficacy results from RAISE

<table>
<thead>
<tr>
<th>Key secondary endpoints</th>
<th>Eltrombopag N=135</th>
<th>Placebo N=62</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cumulative weeks with platelet counts ≥50 000-400 000/µl, Mean (SD)</td>
<td>11.3 (9.46)</td>
<td>2.4 (5.95)</td>
</tr>
<tr>
<td>Patients with ≥75% of assessments in the target range (50 000 to 400 000/µl), n (%)</td>
<td>51 (38)</td>
<td>4 (7)</td>
</tr>
<tr>
<td>(\text{p-value}^a)</td>
<td>&lt;0.001</td>
<td></td>
</tr>
<tr>
<td>Patients with bleeding (WHO Grades 1-4) at any time during 6 months, n (%)</td>
<td>106 (79)</td>
<td>56 (93)</td>
</tr>
<tr>
<td>(\text{p-value}^a)</td>
<td>0.012</td>
<td></td>
</tr>
<tr>
<td>Patients with bleeding (WHO Grades 2-4) at any time during 6 months, n (%)</td>
<td>44 (33)</td>
<td>32 (53)</td>
</tr>
<tr>
<td>(\text{p-value}^a)</td>
<td>0.002</td>
<td></td>
</tr>
<tr>
<td>Requiring rescue therapy, n (%)</td>
<td>24 (18)</td>
<td>25 (40)</td>
</tr>
<tr>
<td>(\text{p-value}^a)</td>
<td>0.001</td>
<td></td>
</tr>
<tr>
<td>Patients receiving ITP therapy at baseline (n)</td>
<td>63</td>
<td>31</td>
</tr>
<tr>
<td>Patients who attempted to reduce or discontinue baseline therapy, n (%)(^b)</td>
<td>37 (59)</td>
<td>10 (32)</td>
</tr>
<tr>
<td>(\text{p-value}^a)</td>
<td>0.016</td>
<td></td>
</tr>
</tbody>
</table>

\(a^{\text{Logistic regression model adjusted for randomisation stratification variables}}\)

\(b^{21\text{ out of 63 (33%) patients treated with eltrombopag who were taking an ITP medicinal product at baseline permanently discontinued all baseline ITP medicinal products.}}\)

At baseline, more than 70% of ITP patients in each treatment group reported any bleeding (WHO Grades 1-4) and more than 20% reported clinically significant bleeding (WHO Grades 2-4), respectively. The proportion of eltrombopag-treated patients with any bleeding (Grades 1-4) and clinically significant bleeding (Grades 2-4) was reduced from baseline by approximately 50% from Day 15 to the end of treatment throughout the 6-month treatment period.

**TRA100773B:**

The primary efficacy endpoint was the proportion of responders, defined as ITP patients who had an increase in platelet counts to ≥50 000/µl at Day 43 from a baseline of <30 000/µl; patients who withdrew prematurely due to a platelet count >200 000/µl were considered responders, those that discontinued for any other reason were considered non-responders irrespective of platelet count. A total of 114 patients with previously treated ITP were randomised 2:1 eltrombopag (n=76) to placebo (n=38).
Table 5  Efficacy results from TRA100773B

<table>
<thead>
<tr>
<th></th>
<th>Eltrombopag N=74</th>
<th>Placebo N=38</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Key primary endpoints</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eligible for efficacy analysis, n</td>
<td>73</td>
<td>37</td>
</tr>
<tr>
<td>Patients with platelet count ≥50 000/µl after up to 42 days of dosing (compared to a baseline count of &lt;30 000/µl), n (%)</td>
<td>43 (59)</td>
<td>6 (16)</td>
</tr>
<tr>
<td><strong>p-value</strong></td>
<td>&lt;0.001</td>
<td></td>
</tr>
<tr>
<td><strong>Key secondary endpoints</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patients with a Day 43 bleeding assessment, n</td>
<td>51</td>
<td>30</td>
</tr>
<tr>
<td>Bleeding (WHO Grades 1-4) n (%)</td>
<td>20 (39)</td>
<td>18 (60)</td>
</tr>
<tr>
<td><strong>p-value</strong></td>
<td>0.029</td>
<td></td>
</tr>
</tbody>
</table>

*p-value* adjusted for randomisation stratification variables

In both RAISE and TRA100773B the response to eltrombopag relative to placebo was similar irrespective of ITP medicinal product use, splenectomy status and baseline platelet count (≤15 000/µl, >15 000/µl) at randomisation.

In RAISE and TRA100773B studies, in the subgroup of ITP patients with baseline platelet count ≤15 000/µl the median platelet counts did not reach the target level (>50 000/µl), although in both studies 43% of these patients treated with eltrombopag responded after 6 weeks of treatment. In addition, in the RAISE study, 42% of patients with baseline platelet count ≤15 000/µl treated with eltrombopag responded at the end of the 6-month treatment period. Forty-two to 60% of the eltrombopag-treated patients in the RAISE study were receiving 75 mg from Day 29 to the end of treatment.

**Open-label non-controlled studies**

**REPEAT (TRA108057):**
This open-label, repeat-dose study (3 cycles of 6 weeks of treatment, followed by 4 weeks off treatment) showed that episodic use with multiple courses of eltrombopag has demonstrated no loss of response.

**EXTEND (TRA105325):**
Eltrombopag was administered to 302 ITP patients in this open-label extension study, 218 patients completed 1 year, 180 completed 2 years, 107 completed 3 years, 75 completed 4 years, 34 completed 5 years and 18 completed 6 years. The median baseline platelet count was 19 000/µl prior to eltrombopag administration. Median platelet counts at 1, 2, 3, 4, 5, 6 and 7 years on study were 85 000/µl, 85 000/µl, 105 000/µl, 64 000/µl, 75 000/µl, 119 000/µl and 76 000/µl, respectively.

**TAPER (CETB115J2411):**
This was a single-arm phase II study including ITP patients treated with eltrombopag after first-line corticosteroid failure irrespective of time since diagnosis. A total of 105 patients were enrolled on the study and started eltrombopag treatment on 50 mg once daily (25 mg once daily for patients of East-/Southeast-Asian ancestry). The dose of eltrombopag was adjusted during the treatment period based on individual platelet counts with the goal to achieve a platelet count ≥100 000/µl.

Of the 105 patients who were enrolled in the study and who received at least one dose of eltrombopag, 69 patients (65.7%) completed treatment and 36 patients (34.3%) discontinued treatment early.
Analysis of sustained response off treatment
The primary endpoint was the proportion of patients with sustained response off treatment until Month 12. Patients who reached a platelet count of ≥100 000/µl and maintained platelet counts around 100 000/µl for 2 months (no counts below 70 000/µl) were eligible for tapering off eltrombopag and treatment discontinuation. To be considered as having achieved a sustained response off treatment, a patient had to maintain platelet counts ≥30 000/µl, in the absence of bleeding events or the use of rescue therapy, both during the treatment tapering period and following discontinuation of treatment until Month 12.

The duration of tapering was individualised depending on the starting dose and the response of the patient. The tapering schedule recommended dose reductions of 25 mg every 2 weeks if the platelet counts were stable. After the daily dose was reduced to 25 mg for 2 weeks, the dose of 25 mg was then only administered on alternate days for 2 weeks until treatment discontinuation. The tapering was done in smaller decrements of 12.5 mg every second week for patients of East-/Southeast-Asian ancestry. If a relapse (defined as platelet count <30 000/µl) occurred, patients were offered a new course of eltrombopag at the appropriate starting dose.

Eighty-nine patients (84.8%) achieved a complete response (platelet count ≥100 000/µl) (Step 1, Table 6) and 65 patients (61.9%) maintained the complete response for at least 2 months with no platelet counts below 70 000/µl (Step 2, Table 6). Forty-four patients (41.9%) were able to be tapered off eltrombopag until treatment discontinuation while maintaining platelet counts ≥30 000/µl in the absence of bleeding events or the use of rescue therapy (Step 3, Table 6).

The study met the primary objective by demonstrating that eltrombopag was able to induce sustained response off treatment, in the absence of bleeding events or the use of rescue therapy, by Month 12 in 32 of the 105 enrolled patients (30.5%; p<0.0001; 95% CI: 21.9, 40.2) (Step 4, Table 6). By Month 24, 20 of the 105 enrolled patients (19.0%; 95% CI: 12.0, 27.9) maintained sustained response off treatment in the absence of bleeding events or the use of rescue therapy (Step 5, Table 6).

The median duration of sustained response after treatment discontinuation to Month 12 was 33.3 weeks (min-max: 4-51), and the median duration of sustained response after treatment discontinuation to Month 24 was 88.6 weeks (min-max: 57-107).

After tapering off and discontinuation of eltrombopag treatment, 12 patients had a loss of response, 8 of them re-started eltrombopag and 7 had a recovery response.

During the 2-year follow-up, 6 out of 105 patients (5.7%) experienced thromboembolic events, of which 3 patients (2.9%) experienced deep vein thrombosis, 1 patient (1.0%) experienced superficial vein thrombosis, 1 patient (1.0%) experienced cavernous sinus thrombosis, 1 patient (1.0%) experienced cerebrovascular accident and 1 patient (1.0%) experienced pulmonary embolism. Of the 6 patients, 4 patients experienced thromboembolic events that were reported as serious. No fatal cases were reported.

Twenty out of 105 patients (19.0%) experienced mild to severe haemorrhage events on treatment before tapering started. Five out of 65 patients (7.7%) who started tapering experienced mild to moderate haemorrhage events during tapering. No severe haemorrhage event occurred during tapering. Two out of 44 patients (4.5%) who tapered off and discontinued eltrombopag treatment experienced mild to moderate haemorrhage events after treatment discontinuation until Month 12. No severe haemorrhage event occurred during this period. None of the patients who discontinued eltrombopag and entered the second year follow-up experienced haemorrhage event during the second year. Two fatal intracranial haemorrhage events were reported during the 2-year follow-up. Both events occurred on treatment, not in the context of tapering. The events were not considered to be related to study treatment.

The overall safety analysis is consistent with previously reported data and the risk-benefit assessment remained unchanged for the use of eltrombopag in patients with ITP.
Table 6  Proportion of patients with sustained response off treatment at Month 12 and at Month 24 (full analysis set) in TAPER

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>All patients N=105</th>
<th>Hypothesis testing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>n (%)</td>
<td>95% CI</td>
</tr>
<tr>
<td>1</td>
<td>Patients who reached platelet count ≥100 000/µl at least once</td>
<td>89 (84.8)</td>
<td>(76.4, 91.0)</td>
</tr>
<tr>
<td>2</td>
<td>Patients who maintained stable platelet count for 2 months after reaching 100 000/µl</td>
<td>65 (61.9)</td>
<td>(51.9, 71.2)</td>
</tr>
<tr>
<td>3</td>
<td>Patients who were able to be tapered off eltrombopag until treatment discontinuation, maintaining platelet count ≥30 000/µl in the absence of bleeding events or use of any rescue therapy</td>
<td>44 (41.9)</td>
<td>(32.3, 51.9)</td>
</tr>
<tr>
<td>4</td>
<td>Patients with sustained response off treatment until Month 12, with platelet count maintained ≥30 000/µl in the absence of bleeding events or use of any rescue therapy</td>
<td>32 (30.5)</td>
<td>(21.9, 40.2)</td>
</tr>
<tr>
<td>5</td>
<td>Patients with sustained response off treatment from Month 12 to Month 24, maintaining platelet count ≥30 000/µl in the absence of bleeding events or use of any rescue therapy</td>
<td>20 (19.0)</td>
<td>(12.0, 27.9)</td>
</tr>
</tbody>
</table>

N: The total number of patients in the treatment group. This is the denominator for percentage (%) calculation.
n: Number of patients in the corresponding category.
The 95% CI for the frequency distribution was computed using Clopper-Pearson exact method. Clopper-Pearson test was used for testing whether the proportion of responders was >15%. CI and p-values are reported.
* Indicates statistical significance (one-sided) at the 0.05 level.

Results of response on treatment analysis by time since ITP diagnosis
An ad-hoc analysis was conducted on the n=105 patients by time since ITP diagnosis to assess the response to eltrombopag across four different ITP categories by time since diagnosis (newly diagnosed ITP <3 months, persistent ITP 3 to <6 months, persistent ITP 6 to ≤12 months, and chronic ITP >12 months). 49% of patients (n=51) had an ITP diagnosis of <3 months, 20% (n=21) of 3 to <6 months, 17% (n=18) of 6 to ≤12 months and 14% (n=15) of >12 months.

Until the cut-off date (22-Oct-2021), patients were exposed to eltrombopag for a median (Q1-Q3) duration of 6.2 months (2.3-12.0 months). The median (Q1-Q3) platelet count at baseline was 16 000/µl (7 800-28 000/µl).

Platelet count response, defined as a platelet count ≥50 000/µl at least once by Week 9 without rescue therapy, was achieved in 84% (95% CI: 71% to 93%) of newly diagnosed ITP patients, 91% (95% CI: 70% to 99%) and 94% (95% CI: 73% to 100%) of persistent ITP patients (i.e. with ITP diagnosis 3 to <6 months and 6 to ≤12 months, respectively), and in 87% (95% CI: 60% to 98%) of chronic ITP patients.

The rate of complete response, defined as platelet count ≥100 000/µl without rescue therapy, was 75% (95% CI: 60% to 86%) in newly diagnosed ITP patients, 76% (95% CI: 53% to 92%) and 72% (95% CI: 47% to 90%) in persistent ITP patients (ITP diagnosis 3 to <6 months and 6 to ≤12 months, respectively), and 87% (95% CI: 60% to 98%) in chronic ITP patients.

The rate of durable response, defined as a platelet count ≥50 000/µl for at least 6 out of 8 consecutive assessments without rescue therapy during the first 6 months on study, was 71% (95% CI: 56% to 83%) in newly diagnosed ITP patients, 81% (95% CI: 58% to 95%) and 72% (95% CI: 47% to 90.3%) in persistent ITP patients (ITP diagnosis 3 to <6 months and 6 to ≤12 months, respectively), and 80% (95% CI: 52% to 96%) in chronic ITP patients.
When assessed with the WHO Bleeding Scale, the proportion of newly diagnosed and persistent ITP patients without bleeding at Week 4 ranged from 88% to 95% compared to 37% to 57% at baseline. For chronic ITP patients it was 93% compared to 73% at baseline.

The safety of eltrombopag was consistent across all ITP categories and in line with its known safety profile.

Clinical studies comparing eltrombopag to other treatment options (e.g. splenectomy) have not been conducted. The long-term safety of eltrombopag should be considered prior to starting therapy.

**Paediatric population (aged 1 to 17 years)**
The safety and efficacy of eltrombopag in paediatric patients have been investigated in two studies.

TRA115450 (PETIT2):
The primary endpoint was a sustained response, defined as the proportion of patients receiving eltrombopag, compared to placebo, achieving platelet counts ≥50 000/µl for at least 6 out of 8 weeks (in the absence of rescue therapy), between weeks 5 to 12 during the double-blind randomised period. Patients were diagnosed with chronic ITP for at least 1 year and were refractory or relapsed to at least one prior ITP therapy or unable to continue other ITP treatments for a medical reason and had platelet count <30 000/µl. Ninety-two patients were randomised by three age cohort strata (2:1) to eltrombopag (n=63) or placebo (n=29). The dose of eltrombopag could be adjusted based on individual platelet counts.

Overall, a significantly greater proportion of eltrombopag patients (40%) compared with placebo patients (3%) achieved the primary endpoint (Odds Ratio: 18.0 [95% CI: 2.3, 140.9] p <0.001) which was similar across the three age cohorts (Table 7).

**Table 7  Sustained platelet response rates by age cohort in paediatric patients with chronic ITP**

<table>
<thead>
<tr>
<th>Age Cohort</th>
<th>Eltrombopag n/N (%) [95% CI]</th>
<th>Placebo n/N (%) [95% CI]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cohort 1 (12 to 17 years)</td>
<td>9/23 (39%) [20%, 61%]</td>
<td>1/10 (10%) [0%, 45%]</td>
</tr>
<tr>
<td>Cohort 2 (6 to 11 years)</td>
<td>11/26 (42%) [23%, 63%]</td>
<td>0/13 (0%) [N/A]</td>
</tr>
<tr>
<td>Cohort 3 (1 to 5 years)</td>
<td>5/14 (36%) [13%, 65%]</td>
<td>0/6 (0%) [N/A]</td>
</tr>
</tbody>
</table>

Statistically fewer eltrombopag patients required rescue treatment during the randomised period compared to placebo patients (19% [12/63] vs. 24% [7/29], p=0.032).

At baseline, 71% of patients in the eltrombopag group and 69% in the placebo group reported any bleeding (WHO Grades 1-4). At Week 12, the proportion of eltrombopag patients reporting any bleeding was decreased to half of baseline (36%). In comparison, at Week 12, 55% of placebo patients reported any bleeding.

Patients were permitted to reduce or discontinue baseline ITP therapy only during the open-label phase of the study and 53% (8/15) of patients were able to reduce (n=1) or discontinue (n=7) baseline ITP therapy, mainly corticosteroids, without needing rescue therapy.
The primary endpoint was the proportion of patients achieving platelet counts $\geq 50\ 000/\mu l$ at least once between weeks 1 and 6 of the randomised period. Patients were diagnosed with ITP for at least 6 months and were refractory or relapsed to at least one prior ITP therapy with a platelet count $<30\ 000/\mu l$ (n=67). During the randomised period of the study, patients were randomised by three age cohort strata (2:1) to eltrombopag (n=45) or placebo (n=22). The dose of eltrombopag could be adjusted based on individual platelet counts.

Overall, a significantly greater proportion of eltrombopag patients (62%) compared with placebo patients (32%) met the primary endpoint (Odds Ratio: 4.3 [95% CI: 1.4, 13.3] p=0.011).

Sustained response was seen in 50% of the initial responders during 20 out of 24 weeks in the PETIT 2 study and 15 out of 24 weeks in the PETIT study.

**Chronic hepatitis C associated thrombocytopenia studies**

The efficacy and safety of eltrombopag for the treatment of thrombocytopenia in patients with HCV infection were evaluated in two randomised, double-blind, placebo-controlled studies. ENABLE 1 utilised peginterferon alfa-2a plus ribavirin for antiviral treatment and ENABLE 2 utilised peginterferon alfa-2b plus ribavirin. Patients did not receive direct acting antiviral agents. In both studies, patients with a platelet count of $<75\ 000/\mu l$ were enrolled and stratified by platelet count ($<50\ 000/\mu l$ and $\geq 50\ 000/\mu l$ to $<75\ 000/\mu l$), screening HCV RNA ($<800\ 000\ IU/ml$ and $\geq 800\ 000\ IU/ml$), and HCV genotype (genotype 2/3, and genotype 1/4/6).

Baseline disease characteristics were similar in both studies and were consistent with compensated cirrhotic HCV patient population. The majority of patients were HCV genotype 1 (64%) and had bridging fibrosis/cirrhosis. Thirty-one percent of patients had been treated with prior HCV therapies, primarily pegylated interferon plus ribavirin. The median baseline platelet count was 59 500/µl in both treatment groups: 0.8%, 28% and 72% of the patients recruited had platelet counts $<20\ 000/\mu l$, $<50\ 000/\mu l$ and $\geq 50\ 000/\mu l$ respectively.

The studies consisted of two phases – a pre-antiviral treatment phase and an antiviral treatment phase. In the pre-antiviral treatment phase, patients received open-label eltrombopag to increase the platelet count to $\geq 90\ 000/\mu l$ for ENABLE 1 and $\geq 100\ 000/\mu l$ for ENABLE 2. The median time to achieve the target platelet count $\geq 90\ 000/\mu l$ (ENABLE 1) or $\geq 100\ 000/\mu l$ (ENABLE 2) was 2 weeks.

The primary efficacy endpoint for both studies was sustained virologic response (SVR), defined as the percentage of patients with no detectable HCV-RNA at 24 weeks after completion of the planned treatment period.

In both HCV studies, a significantly greater proportion of patients treated with eltrombopag (n=201, 21%) achieved SVR compared to those treated with placebo (n=65, 13%) (see Table 8). The improvement in the proportion of patients who achieved SVR was consistent across all subgroups in the randomisation strata (baseline platelet counts ($<50\ 000$ vs. $\geq 50\ 000$), viral load ($<800\ 000\ IU/ml$ vs. $\geq 800\ 000\ IU/ml$) and genotype (2/3 vs. 1/4/6)).
Table 8  Virologic response in HCV patients in ENABLE 1 and ENABLE 2

<table>
<thead>
<tr>
<th>Patients achieving target platelet counts and initiating antiviral therapy</th>
<th>Pooled data</th>
<th>ENABLE 1a</th>
<th>ENABLE 2b</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eltrombopag</td>
<td>Placebo</td>
<td>Eltrombopag</td>
<td>Placebo</td>
</tr>
<tr>
<td>Eltrombopag</td>
<td>n=956</td>
<td>n=485</td>
<td>Eltrombopag</td>
</tr>
</tbody>
</table>

| Total number of patients entering antiviral treatment phase | % patients achieving virologic response |
|---|---|---|---|---|---|---|
| Overall SVR | 21 | 13 | 23 | 14 | 19 | 13 |
| HCV RNA Genotype | | | | | | |
| Genotype 2/3 | 35 | 25 | 35 | 24 | 34 | 25 |
| Genotype 1/4/6 | 15 | 8 | 18 | 10 | 13 | 7 |
| Albumin levels | | | | | | |
| ≤ 35g/l | 11 | 8 | | | | |
| > 35g/l | 25 | 16 | | | | |
| MELD score | | | | | | |
| ≥ 10 | 18 | 10 | | | | |
| < 10 | 23 | 17 | | | | |

a  Eltrombopag given in combination with peginterferon alfa-2a (180 μg once weekly for 48 weeks for genotypes 1/4/6; 24 weeks for genotype 2/3) plus ribavirin (800 to 1 200 mg daily in 2 divided doses orally)
b  Eltrombopag given in combination with peginterferon alfa-2b (1.5 μg/kg once weekly for 48 weeks for genotype 1/4/6; 24 weeks for genotype 2/3) plus ribavirin (800 to 1 400 mg orally in 2 divided doses)
c  Target platelet count was ≥90 000/µl for ENABLE 1 and ≥100 000/µl for ENABLE 2. For ENABLE 1, 682 patients were randomised to the antiviral treatment phase; however 2 patients then withdrew consent prior to receiving antiviral therapy
d  p-value <0.05 for eltrombopag versus placebo
e  64% patients participating in ENABLE 1 and ENABLE 2 were genotype 1
f  Post-hoc analyses

Other secondary findings of the studies included the following: significantly fewer patients treated with eltrombopag prematurely discontinued antiviral therapy compared to placebo (45% vs. 60%, p=<0.0001). A greater proportion of patients on eltrombopag did not require any antiviral dose reduction as compared to placebo (45% vs. 27%). Elnrombopag treatment delayed and reduced the number of peginterferon dose reductions.

Severe aplastic anaemia

Eltrombopag was studied in a single-arm, single-centre open-label study in 43 patients with severe aplastic anaemia with refractory thrombocytopenia following at least one prior immunosuppressive therapy (IST) and who had a platelet count ≤30 000/µl.

The majority of patients, 33 (77%), were considered to have ‘primary refractory disease’, defined as having no prior adequate response to IST in any lineage. The remaining 10 patients had insufficient platelet response to prior therapies. All 10 had received at least 2 prior IST regimens and 50% had received at least 3 prior IST regimens. Patients with diagnosis of Fanconi anaemia, infection not responding to appropriate therapy, PNH clone size in neutrophils of ≥50%, where excluded from participation.
At baseline the median platelet count was 20,000/µl, haemoglobin was 8.4 g/dl, ANC was 0.58 x 10⁹/l and absolute reticulocyte count was 24.3 x 10⁹/l. Eighty-six percent of patients were RBC transfusion dependent, and 91% were platelet transfusion dependent. The majority of patients (84%) had received at least 2 prior immunosuppressive therapies. Three patients had cytogenetic abnormalities at baseline.

The primary endpoint was haematological response assessed after 12 weeks of eltrombopag treatment. Haematological response was defined as meeting one or more of the following criteria: 1) platelet count increases to 20,000/µl above baseline or stable platelet counts with transfusion independence for a minimum of 8 weeks; 2) haemoglobin increase by >1.5 g/dl, or a reduction in ≥4 units of red blood cell (RBC) transfusions for 8 consecutive weeks; 3) absolute neutrophil count (ANC) increase of 100% or an ANC increase >0.5 x 10⁹/l.

The haematological response rate was 40% (17/43 patients; 95% CI 25, 56), the majority were unilineage responses (13/17, 76%) whilst there were 3 bilineage and 1 trilineage responses at week 12. Eltrombopag was discontinued after 16 weeks if no haematological response or transfusion independence was observed. Patients who responded continued therapy in an extension phase of the trial. A total of 14 patients entered the extension phase of the trial. Nine of these patients achieved a multi-lineage response, 4 of the 9 remain on treatment and 5 tapered off treatment with eltrombopag and maintained the response (median follow up: 20.6 months, range: 5.7 to 22.5 months). The remaining 5 patients discontinued treatment, three due to relapse at the month 3 extension visit.

During treatment with eltrombopag 59% (23/39) became platelet transfusion independent (28 days without platelet transfusion) and 27% (10/37) became RBC transfusion independent (56 days without RBC transfusion). The longest platelet transfusion-free period for non-responders was 27 days (median). The longest platelet transfusion-free period for responders was 287 days (median). The longest RBC transfusion-free period for non-responders was 29 days (median). The longest RBC transfusion-free period for responders was 266 days (median).

Over 50% of responders who were transfusion-dependent at baseline, had >80% reduction in both platelet and RBC transfusion requirements compared to baseline.

Preliminary results from a supportive study (Study ELT116826), an ongoing non-randomised, phase II, single-arm, open-label study in refractory SAA patients, showed consistent results. Data are limited to 21 out of the planned 60 patients with haematological responses reported by 52% of patients at 6 months. Multilineage responses were reported by 45% of patients.

5.2 Pharmacokinetic properties

Pharmacokinetics

The plasma eltrombopag concentration-time data collected in 88 patients with ITP in studies TRA100773A and TRA100773B were combined with data from 111 healthy adult subjects in a population PK analysis. Plasma eltrombopag AUC₁₀⁻τ and C_max estimates for ITP patients are presented (Table 9).

<table>
<thead>
<tr>
<th>Eltrombopag dose, once daily</th>
<th>N</th>
<th>AUC₁₀⁻τ, µg.h/ml</th>
<th>C_max, µg/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 mg</td>
<td>28</td>
<td>47 (39, 58)</td>
<td>3.78 (3.18, 4.49)</td>
</tr>
<tr>
<td>50 mg</td>
<td>34</td>
<td>108 (88, 134)</td>
<td>8.01 (6.73, 9.53)</td>
</tr>
<tr>
<td>75 mg</td>
<td>26</td>
<td>168 (143, 198)</td>
<td>12.7 (11.0, 14.5)</td>
</tr>
</tbody>
</table>

a AUC₁₀⁻τ and C_max based on population PK post-hoc estimates.
Plasma eltrombopag concentration-time data collected in 590 patients with HCV enrolled in phase III studies TPL103922/ENABLE 1 and TPL108390/ENABLE 2 were combined with data from patients with HCV enrolled in the phase II study TPL102357 and healthy adult subjects in a population PK analysis. Plasma eltrombopag $C_{\text{max}}$ and AUC$_{(0-\tau)}$ estimates for patients with HCV enrolled in the phase III studies are presented for each dose studied in Table 10.

Table 10  Geometric mean (95% CI) steady-state plasma eltrombopag pharmacokinetic parameters in patients with chronic HCV

<table>
<thead>
<tr>
<th>Eltrombopag dose (once daily)</th>
<th>N</th>
<th>AUC$_{(0-\tau)}$ ($\mu$g.h/ml)</th>
<th>$C_{\text{max}}$ ($\mu$g/ml)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 mg</td>
<td>330</td>
<td>118 (109, 128)</td>
<td>6.40 (5.97, 6.86)</td>
</tr>
<tr>
<td>50 mg</td>
<td>119</td>
<td>166 (143, 192)</td>
<td>9.08 (7.96, 10.35)</td>
</tr>
<tr>
<td>75 mg</td>
<td>45</td>
<td>301 (250, 363)</td>
<td>16.71 (14.26, 19.58)</td>
</tr>
<tr>
<td>100 mg</td>
<td>96</td>
<td>354 (304, 411)</td>
<td>19.19 (16.81, 21.91)</td>
</tr>
</tbody>
</table>

Data presented as geometric mean (95% CI). AUC$_{(0-\tau)}$ and $C_{\text{max}}$ based on population PK post-hoc estimates at the highest dose in the data for each patient.

Absorption and bioavailability

Eltrombopag is absorbed with a peak concentration occurring 2 to 6 hours after oral administration. Administration of eltrombopag concomitantly with antacids and other products containing polyvalent cations such as dairy products and mineral supplements significantly reduces eltrombopag exposure (see section 4.2). In a relative bioavailability study in adults, the eltrombopag powder for oral suspension delivered 22% higher plasma AUC$_{(0-\tau)}$ than the film-coated tablet formulation. The absolute oral bioavailability of eltrombopag after administration to humans has not been established. Based on urinary excretion and metabolites eliminated in faeces, the oral absorption of drug-related material following administration of a single 75 mg eltrombopag solution dose was estimated to be at least 52%.

Distribution

Eltrombopag is highly bound to human plasma proteins (>99.9%), predominantly to albumin. Eltrombopag is a substrate for BCRP, but is not a substrate for P-glycoprotein or OATP1B1.

Biotransformation

Eltrombopag is primarily metabolised through cleavage, oxidation and conjugation with glucuronic acid, glutathione, or cysteine. In a human radiolabel study, eltrombopag accounted for approximately 64% of plasma radiocarbon AUC$_{0-\infty}$. Minor metabolites due to glucuronidation and oxidation were also detected. In vitro studies suggest that CYP1A2 and CYP2C8 are responsible for oxidative metabolism of eltrombopag. Uridine diphosphoglucuronyl transferase UGT1A1 and UGT1A3 are responsible for glucuronidation, and bacteria in the lower gastrointestinal tract may be responsible for the cleavage pathway.
Elimination

Absorbed eltrombopag is extensively metabolised. The predominant route of eltrombopag excretion is via faeces (59%) with 31% of the dose found in the urine as metabolites. Unchanged parent compound (eltrombopag) is not detected in urine. Unchanged eltrombopag excreted in faeces accounts for approximately 20% of the dose. The plasma elimination half-life of eltrombopag is approximately 21-32 hours.

Pharmacokinetic interactions

Based on a human study with radiolabelled eltrombopag, glucuronidation plays a minor role in the metabolism of eltrombopag. Human liver microsome studies identified UGT1A1 and UGT1A3 as the enzymes responsible for eltrombopag glucuronidation. Eltrombopag was an inhibitor of a number of UGT enzymes in vitro. Clinically significant drug interactions involving glucuronidation are not anticipated due to limited contribution of individual UGT enzymes in the glucuronidation of eltrombopag.

Approximately 21% of an eltrombopag dose could undergo oxidative metabolism. Human liver microsome studies identified CYP1A2 and CYP2C8 as the enzymes responsible for eltrombopag oxidation. Eltrombopag does not inhibit or induce CYP enzymes based on in vitro and in vivo data (see section 4.5).

In vitro studies demonstrate that eltrombopag is an inhibitor of the OATP1B1 transporter and an inhibitor of the BCRP transporter and eltrombopag increased exposure of the OATP1B1 and BCRP substrate rosuvastatin in a clinical drug interaction study (see section 4.5). In clinical studies with eltrombopag, a dose reduction of statins by 50% was recommended.

Eltrombopag chelates with polyvalent cations such as iron, calcium, magnesium, aluminium, selenium and zinc (see sections 4.2 and 4.5).

In vitro studies demonstrated that eltrombopag is not a substrate for the organic anion transporter polypeptide, OATP1B1, but is an inhibitor of this transporter (IC$_{50}$ value of 2.7 μM [1.2 μg/ml]). In vitro studies also demonstrated that eltrombopag is a breast cancer resistance protein (BCRP) substrate and inhibitor (IC$_{50}$ value of 2.7 μM [1.2 μg/ml]).

Special patient populations

Renal impairment

The pharmacokinetics of eltrombopag have been studied after administration of eltrombopag to adult patients with renal impairment. Following administration of a single 50 mg dose, the AUC$_{0-\infty}$ of eltrombopag was 32% to 36% lower in patients with mild to moderate renal impairment, and 60% lower in patients with severe renal impairment compared with healthy volunteers. There was substantial variability and significant overlap in exposures between patients with renal impairment and healthy volunteers. Unbound eltrombopag (active) concentrations for this highly protein-bound medicinal product were not measured. Patients with impaired renal function should use eltrombopag with caution and close monitoring, for example by testing serum creatinine and/or urine analysis (see section 4.2). The efficacy and safety of eltrombopag have not been established in patients with both moderate to severe renal impairment and hepatic impairment.
**Hepatic impairment**

The pharmacokinetics of eltrombopag have been studied after administration of eltrombopag to adult patients with hepatic impairment. Following the administration of a single 50 mg dose, the AUC\(_{0-\infty}\) of eltrombopag was 41% higher in patients with mild hepatic impairment and 80% to 93% higher in patients with moderate to severe hepatic impairment compared with healthy volunteers. There was substantial variability and significant overlap in exposures between patients with hepatic impairment and healthy volunteers. Unbound eltrombopag (active) concentrations for this highly protein-bound medicinal product were not measured.

The influence of hepatic impairment on the pharmacokinetics of eltrombopag following repeat administration was evaluated using a population pharmacokinetic analysis in 28 healthy adults and 714 patients with hepatic impairment (673 patients with HCV and 41 patients with chronic liver disease of other aetiology). Of the 714 patients, 642 were with mild hepatic impairment, 67 with moderate hepatic impairment, and 2 with severe hepatic impairment. Compared to healthy volunteers, patients with mild hepatic impairment had approximately 111% (95% CI: 45% to 283%) higher plasma eltrombopag AUC\(_{0-\tau}\) values and patients with moderate hepatic impairment had approximately 183% (95% CI: 90% to 459%) higher plasma eltrombopag AUC\(_{0-\tau}\) values.

Therefore, eltrombopag should not be used in ITP patients with hepatic impairment (Child-Pugh score ≥5) unless the expected benefit outweighs the identified risk of portal venous thrombosis (see sections 4.2 and 4.4). For patients with HCV initiate eltrombopag at a dose of 25 mg once daily (see section 4.2).

**Race**

The influence of East-Asian ethnicity on the pharmacokinetics of eltrombopag was evaluated using a population pharmacokinetic analysis in 111 healthy adults (31 East-Asians) and 88 patients with ITP (18 East-Asians). Based on estimates from the population pharmacokinetic analysis, East-Asian ITP patients had approximately 49% higher plasma eltrombopag AUC\(_{0-\tau}\) values as compared to non-East-Asian patients who were predominantly Caucasian (see section 4.2).

The influence of East-/Southeast-Asian ethnicity on the pharmacokinetics of eltrombopag was evaluated using a population pharmacokinetic analysis in 635 patients with HCV (145 East-Asians and 69 Southeast-Asians). Based on estimates from the population pharmacokinetic analysis, East-/Southeast-Asian patients had approximately 55% higher plasma eltrombopag AUC\(_{0-\tau}\) values as compared to patients of other races who were predominantly Caucasian (see section 4.2).

**Gender**

The influence of gender on the pharmacokinetics of eltrombopag was evaluated using a population pharmacokinetic analysis in 111 healthy adults (14 females) and 88 patients with ITP (57 females). Based on estimates from the population pharmacokinetic analysis, female ITP patients had approximately 23% higher plasma eltrombopag AUC\(_{0-\tau}\) as compared to male patients, without adjustment for body weight differences.

The influence of gender on eltrombopag pharmacokinetics was evaluated using population pharmacokinetics analysis in 635 patients with HCV (260 females). Based on model estimate, female HCV patient had approximately 41% higher plasma eltrombopag AUC\(_{0-\tau}\) as compared to male patients.
**Age**

The influence of age on eltrombopag pharmacokinetics was evaluated using population pharmacokinetics analysis in 28 healthy subjects, 673 patients with HCV, and 41 patients with chronic liver disease of other aetiology ranging from 19 to 74 years old. There are no PK data on the use of eltrombopag in patients ≥75 years. Based on model estimate, elderly (≥65 years) patients had approximately 41% higher plasma eltrombopag AUC\(_{(0-\tau)}\) as compared to younger patients (see section 4.2).

**Paediatric population (aged 1 to 17 years)**

The pharmacokinetics of eltrombopag have been evaluated in 168 paediatric ITP patients dosed once daily in two studies, TRA108062/PETIT and TRA115450/PETIT-2. Plasma eltrombopag apparent clearance following oral administration (CL/F) increased with increasing body weight. The effects of race and sex on plasma eltrombopag CL/F estimates were consistent between paediatric and adult patients. East-/Southeast-Asian paediatric ITP patients had approximately 43% higher plasma eltrombopag AUC\(_{(0-\tau)}\) values as compared to non-Asian patients. Female paediatric ITP patients had approximately 25% higher plasma eltrombopag AUC\(_{(0-\tau)}\) values as compared to male patients.

The pharmacokinetic parameters of eltrombopag in paediatric patients with ITP are shown in Table 11.

**Table 11  Geometric mean (95% CI) steady-state plasma eltrombopag pharmacokinetic parameters in paediatric patients with ITP (50 mg once daily dosing regimen)**

<table>
<thead>
<tr>
<th>Age</th>
<th>(C_{\text{max}}) (µg/ml)</th>
<th>AUC(_{(0-\tau)}) (µg.hr/ml)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 to 17 years (n=62)</td>
<td>6.80 (6.17, 7.50)</td>
<td>103 (91.1, 116)</td>
</tr>
<tr>
<td>6 to 11 years (n=68)</td>
<td>10.3 (9.42, 11.2)</td>
<td>153 (137, 170)</td>
</tr>
<tr>
<td>1 to 5 years (n=38)</td>
<td>11.6 (10.4, 12.9)</td>
<td>162 (139, 187)</td>
</tr>
</tbody>
</table>

Data presented as geometric mean (95% CI). AUC\(_{(0-\tau)}\) and \(C_{\text{max}}\) based on population PK post-hoc estimates.
5.3 Preclinical safety data

Safety pharmacology and repeat-dose toxicity

Eltrombopag does not stimulate platelet production in mice, rats or dogs because of unique TPO receptor specificity. Therefore, data from these animals do not fully model potential adverse effects related to the pharmacology of eltrombopag in humans, including the reproduction and carcinogenicity studies.

Treatment-related cataracts were detected in rodents and were dose and time-dependent. At ≥6 times the human clinical exposure in adult ITP patients at 75 mg/day and 3 times the human clinical exposure in adult HCV patients at 100 mg/day, based on AUC, cataracts were observed in mice after 6 weeks and rats after 28 weeks of dosing. At ≥4 times the human clinical exposure in ITP patients at 75 mg/day and 2 times the human exposure in HCV patients at 100 mg/day, based on AUC, cataracts were observed in mice after 13 weeks and in rats after 39 weeks of dosing. At non-tolerated doses in pre-weaning juvenile rats dosed from Days 4-32 (approximately equating to a 2-year-old human at the end of the dosing period), ocular opacities were observed (histology not performed) at 9 times the maximum human clinical exposure in paediatric ITP patients at 75 mg/day, based on AUC. However, cataracts were not observed in juvenile rats given tolerated doses at 5 times the human clinical exposure in paediatric ITP patients, based on AUC. Cataracts have not been observed in adult dogs after 52 weeks of dosing at 2 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and equivalent to the human clinical exposure in HCV patients at 100 mg/day, based on AUC).

Renal tubular toxicity was observed in studies of up to 14 days duration in mice and rats at exposures that were generally associated with morbidity and mortality. Tubular toxicity was also observed in a 2-year oral carcinogenicity study in mice at doses of 25, 75 and 150 mg/kg/day. Effects were less severe at lower doses and were characterised by a spectrum of regenerative changes. The exposure at the lowest dose was 1.2 or 0.8 times the human clinical exposure based on AUC in adult or paediatric ITP patients at 75 mg/day and 0.6 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC. Renal effects were not observed in rats after 28 weeks or in dogs after 52 weeks at exposures 4 and 2 times the human clinical exposure in adult ITP patients and 3 and 2 times the human clinical exposure in paediatric ITP patients at 75 mg/day and 2 times and equivalent to the human clinical exposure in HCV patients at 100 mg/day, based on AUC.

Hepatocyte degeneration and/or necrosis, often accompanied by increased serum liver enzymes, was observed in mice, rats and dogs at doses that were associated with morbidity and mortality or were poorly tolerated. No hepatic effects were observed after chronic dosing in rats (28 weeks) and in dogs (52 weeks) at 4 or 2 times the human clinical exposure in adult ITP patients and 3 or 2 times the human clinical exposure in paediatric ITP patients at 75 mg/day and 2 times or equivalent to the human clinical exposure in HCV patients at 100 mg/day, based on AUC.

At poorly tolerated doses in rats and dogs (>10 or 7 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 4 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC), decreased reticulocyte counts and regenerative bone marrow erythroid hyperplasia (rats only) were observed in short-term studies. There were no effects of note on red cell mass or reticulocyte counts after dosing for up to 28 weeks in rats, 52 weeks in dogs and 2 years in mice or rats at maximally tolerated doses which were 2 to 4 times human clinical exposure in adult or paediatric ITP patients at 75 mg/day and ≤2 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC.

Endosteal hyperostosis was observed in a 28-week toxicity study in rats at a non-tolerated dose of 60 mg/kg/day (6 times or 4 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 3 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC). There were no bone changes observed in mice or rats after lifetime exposure (2 years) at 4 times or 2 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 2 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC.
Carcinogenicity and mutagenicity

Eltrombopag was not carcinogenic in mice at doses up to 75 mg/kg/day or in rats at doses up to 40 mg/kg/day (exposures up to 4 or 2 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 2 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC). Eltrombopag was not mutagenic or clastogenic in a bacterial mutation assay or in two in vivo assays in rats (micronucleus and unscheduled DNA synthesis, 10 times or 8 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 7 times the human clinical exposure in HCV patients at 100 mg/day, based on Cmax). In the in vitro mouse lymphoma assay, eltrombopag was marginally positive (<3-fold increase in mutation frequency). These in vitro and in vivo findings suggest that eltrombopag does not pose a genotoxic risk to humans.

Reproductive toxicity

Eltrombopag did not affect female fertility, early embryonic development or embryofetal development in rats at doses up to 20 mg/kg/day (2 times the human clinical exposure in adult or adolescent (12-17 years old) ITP patients at 75 mg/day and equivalent to the human clinical exposure in HCV patients at 100 mg/day, based on AUC). Also there was no effect on embryofetal development in rabbits at doses up to 150 mg/kg/day, the highest dose tested (0.3 to 0.5 times the human clinical exposure in ITP patients at 75 mg/day and HCV patients at 100 mg/day, based on AUC). However, at a maternally toxic dose of 60 mg/kg/day (6 times the human clinical exposure in ITP patients at 75 mg/day and 3 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC) in rats, eltrombopag treatment was associated with embryo lethality (increased pre- and post-implantation loss), reduced foetal body weight and gravid uterine weight in the female fertility study and a low incidence of cervical ribs and reduced foetal body weight in the embryofetal development study. Eltrombopag should be used during pregnancy only if the expected benefit justifies the potential risk to the foetus (see section 4.6). Eltrombopag did not affect male fertility in rats at doses up to 40 mg/kg/day, the highest dose tested (3 times the human clinical exposure in ITP patients at 75 mg/day and 2 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC). In the pre- and post-natal development study in rats, there were no undesirable effects on pregnancy, parturition or lactation of F0 female rats at maternally non-toxic doses (10 and 20 mg/kg/day) and no effects on the growth, development, neurobehavioural or reproductive function of the offspring (F1). Eltrombopag was detected in the plasma of all F1 rat pups for the entire 22 hour sampling period following administration of medicinal product to the F0 dams, suggesting that rat pup exposure to eltrombopag was likely via lactation.

Phototoxicity

In vitro studies with eltrombopag suggest a potential phototoxicity risk; however, in rodents there was no evidence of cutaneous phototoxicity (10 or 7 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 5 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC) or ocular phototoxicity (≥4 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 3 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC). Furthermore, a clinical pharmacology study in 36 subjects showed no evidence that photosensitivity was increased following administration of eltrombopag 75 mg. This was measured by delayed phototoxic index. Nevertheless, a potential risk of photoallergy cannot be ruled out since no specific preclinical study could be performed.

Juvenile animal studies

At non-tolerated doses in pre-weaning rats, ocular opacities were observed. At tolerated doses, no ocular opacities were observed (see above subsection ‘Safety pharmacology and repeat-dose toxicity’). In conclusion, taking into account the exposure margins based on AUC, a risk of eltrombopag-related cataracts in paediatric patients cannot be excluded. There are no findings in juvenile rats to suggest a greater risk of toxicity with eltrombopag treatment in paediatric vs. adult ITP patients.
6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Revolade 12.5 mg film-coated tablets

*Tablet core*
Magnesium stearate
Mannitol (E421)
Microcrystalline cellulose
Povidone
Sodium starch glycolate

*Tablet coating*
Hypromellose (E464)
Macrogol 400 (E1521)
Polysorbate 80 (E433)
Titanium dioxide (E171)

Revolade 25 mg film-coated tablets

*Tablet core*
Magnesium stearate
Mannitol (E421)
Microcrystalline cellulose
Povidone
Sodium starch glycolate

*Tablet coating*
Hypromellose (E464)
Macrogol 400 (E1521)
Polysorbate 80 (E433)
Titanium dioxide (E171)

Revolade 50 mg film-coated tablets

*Tablet core*
Magnesium stearate
Mannitol (E421)
Microcrystalline cellulose
Povidone
Sodium starch glycolate

*Tablet coating*
Hypromellose (E464)
Iron oxide red (E172)
Iron oxide yellow (E172)
Macrogol 400 (E1521)
Titanium dioxide (E171)
Revolade 75 mg film-coated tablets

**Tablet core**
Magnesium stearate  
Mannitol (E421)  
Microcrystalline cellulose  
Povidone  
Sodium starch glycolate

**Tablet coating**
Hypermellose (E464)  
Iron oxide red (E172)  
Iron oxide black (E172)  
Macrogol 400 (E1521)  
Titanium dioxide (E171)

**6.2 Incompatibilities**
Not applicable.

**6.3 Shelf life**
3 years.

**6.4 Special precautions for storage**
This medicinal product does not require any special storage conditions.

**6.5 Nature and contents of container**
Film-coated tablets
Aluminum blisters (PA/Alu/PVC/Alu) in a carton containing 14 or 28 film-coated tablets and multipacks containing 84 (3 packs of 28) film-coated tablets.

Not all pack sizes may be marketed.

**6.6 Special precautions for disposal**
Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

**7. MARKETING AUTHORISATION HOLDER**
Novartis Europharm Limited  
Vista Building  
Elm Park, Merrion Road  
Dublin 4  
Ireland
8. MARKETING AUTHORISATION NUMBER(S)

Revolade 12.5 mg film-coated tablets
EU/1/10/612/010
EU/1/10/612/011
EU/1/10/612/012

Revolade 25 mg film-coated tablets
EU/1/10/612/001
EU/1/10/612/002
EU/1/10/612/003

Revolade 50 mg film-coated tablets
EU/1/10/612/004
EU/1/10/612/005
EU/1/10/612/006

Revolade 75 mg film-coated tablets
EU/1/10/612/007
EU/1/10/612/008
EU/1/10/612/009

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 11 March 2010
Date of latest renewal: 15 January 2015

10. DATE OF REVISION OF THE TEXT

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

Revolade 25 mg powder for oral suspension

2. **QUALITATIVE AND QUANTITATIVE COMPOSITION**

Each sachet contains eltrombopag olamine equivalent to 25 mg of eltrombopag.

For the full list of excipients, see section 6.1.

3. **PHARMACEUTICAL FORM**

Powder for oral suspension

Reddish-brown to yellow powder.

4. **CLINICAL PARTICULARS**

4.1 **Therapeutic indications**

Revolade is indicated for the treatment of adult patients with primary immune thrombocytopenia (ITP) who are refractory to other treatments (e.g. corticosteroids, immunoglobulins) (see sections 4.2 and 5.1).

Revolade is indicated for the treatment of paediatric patients aged 1 year and above with primary immune thrombocytopenia (ITP) lasting 6 months or longer from diagnosis and who are refractory to other treatments (e.g. corticosteroids, immunoglobulins) (see sections 4.2 and 5.1).

Revolade is indicated in adult patients with chronic hepatitis C virus (HCV) infection for the treatment of thrombocytopenia, where the degree of thrombocytopenia is the main factor preventing the initiation or limiting the ability to maintain optimal interferon-based therapy (see sections 4.4 and 5.1).

Revolade is indicated in adult patients with acquired severe aplastic anaemia (SAA) who were either refractory to prior immunosuppressive therapy or heavily pretreated and are unsuitable for haematopoietic stem cell transplantation (see section 5.1).

4.2 **Posology and method of administration**

Eltrombopag treatment should be initiated by and remain under the supervision of a physician who is experienced in the treatment of haematological diseases or the management of chronic hepatitis C and its complications.

**Posology**

Eltrombopag dosing requirements must be individualised based on the patient’s platelet counts. The objective of treatment with eltrombopag should not be to normalise platelet counts.

The powder for oral suspension may lead to higher eltrombopag exposure than the tablet formulation (see section 5.2). When switching between the tablet and the powder for oral suspension formulations, platelet counts should be monitored weekly for 2 weeks.
**Immune (primary) thrombocytopenia**

The lowest dose of eltrombopag to achieve and maintain a platelet count $\geq 50\,000/\mu l$ should be used. Dose adjustments are based upon the platelet count response. Eltrombopag must not be used to normalise platelet counts. In clinical studies, platelet counts generally increased within 1 to 2 weeks after starting eltrombopag and decreased within 1 to 2 weeks after discontinuation.

**Adults and paediatric population aged 6 to 17 years**

The recommended starting dose of eltrombopag is 50 mg once daily. For patients of East-/Southeast-Asian ancestry, eltrombopag should be initiated at a reduced dose of 25 mg once daily (see section 5.2).

**Paediatric population aged 1 to 5 years**

The recommended starting dose of eltrombopag is 25 mg once daily.

**Monitoring and dose adjustment**

After initiating eltrombopag, the dose must be adjusted to achieve and maintain a platelet count $\geq 50\,000/\mu l$ as necessary to reduce the risk for bleeding. A daily dose of 75 mg must not be exceeded.

Clinical haematology and liver tests should be monitored regularly throughout therapy with eltrombopag and the dose regimen of eltrombopag modified based on platelet counts as outlined in Table 1. During therapy with eltrombopag full blood counts (FBCs), including platelet count and peripheral blood smears, should be assessed weekly until a stable platelet count ($\geq 50\,000/\mu l$ for at least 4 weeks) has been achieved. FBCs including platelet counts and peripheral blood smears should be obtained monthly thereafter.

**Table 1  Dose adjustments of eltrombopag in ITP patients**

<table>
<thead>
<tr>
<th>Platelet count</th>
<th>Dose adjustment or response</th>
</tr>
</thead>
<tbody>
<tr>
<td>$&lt;50,000/\mu l$ following at least 2 weeks of therapy</td>
<td>Increase daily dose by 25 mg to a maximum of 75 mg/day*.</td>
</tr>
<tr>
<td>$\geq 50,000/\mu l$ to $\leq 150,000/\mu l$</td>
<td>Use lowest dose of eltrombopag and/or concomitant ITP treatment to maintain platelet counts that avoid or reduce bleeding.</td>
</tr>
<tr>
<td>$&gt;150,000/\mu l$ to $\leq 250,000/\mu l$</td>
<td>Decrease the daily dose by 25 mg. Wait 2 weeks to assess the effects of this and any subsequent dose adjustments*.</td>
</tr>
<tr>
<td>$&gt;250,000/\mu l$</td>
<td>Stop eltrombopag; increase the frequency of platelet monitoring to twice weekly. Once the platelet count is $\leq 100,000/\mu l$, reinitiate therapy at a daily dose reduced by 25 mg.</td>
</tr>
</tbody>
</table>

* For patients taking 25 mg eltrombopag once every other day, increase dose to 25 mg once daily.

♦ For patients taking 25 mg eltrombopag once daily, consideration should be given to dosing at 12.5 mg once daily or alternatively a dose of 25 mg once every other day.

Eltrombopag can be administered in addition to other ITP medicinal products. The dose regimen of concomitant ITP medicinal products should be modified, as medically appropriate, to avoid excessive increases in platelet counts during therapy with eltrombopag.

It is necessary to wait for at least 2 weeks to see the effect of any dose adjustment on the patient’s platelet response prior to considering another dose adjustment.

The standard eltrombopag dose adjustment, either decrease or increase, would be 25 mg once daily.
Discontinuation
Treatment with eltrombopag should be discontinued if the platelet count does not increase to a level sufficient to avoid clinically important bleeding after 4 weeks of eltrombopag therapy at 75 mg once daily.

Patients should be clinically evaluated periodically and continuation of treatment should be decided on an individual basis by the treating physician. In non-splenectomised patients this should include evaluation relative to splenectomy. The reoccurrence of thrombocytopenia is possible upon discontinuation of treatment (see section 4.4).

Chronic hepatitis C (HCV) associated thrombocytopenia

When eltrombopag is given in combination with antivirals reference should be made to the full summary of product characteristics of the respective coadministered medicinal products for comprehensive details of relevant safety information or contraindications.

In clinical studies, platelet counts generally began to increase within 1 week of starting eltrombopag. The aim of treatment with eltrombopag should be to achieve the minimum level of platelet counts needed to initiate antiviral therapy, in adherence to clinical practice recommendations. During antiviral therapy, the aim of treatment should be to keep platelet counts at a level that prevents the risk of bleeding complications, normally around 50 000-75 000/µl. Platelet counts >75 000/µl should be avoided. The lowest dose of eltrombopag needed to achieve the targets should be used. Dose adjustments are based upon the platelet count response.

Initial dose regimen
Eltrombopag should be initiated at a dose of 25 mg once daily. No dosage adjustment is necessary for HCV patients of East-/Southeast-Asian ancestry or patients with mild hepatic impairment (see section 5.2).

Monitoring and dose adjustment
The dose of eltrombopag should be adjusted in 25 mg increments every 2 weeks as necessary to achieve the target platelet count required to initiate antiviral therapy. Platelet counts should be monitored every week prior to starting antiviral therapy. On initiation of antiviral therapy the platelet count may fall, so immediate eltrombopag dose adjustments should be avoided (see Table 2).

During antiviral therapy, the dose of eltrombopag should be adjusted as necessary to avoid dose reductions of peginterferon due to decreasing platelet counts that may put patients at risk of bleeding (see Table 2). Platelet counts should be monitored weekly during antiviral therapy until a stable platelet count is achieved, normally around 50 000-75 000/µl. FBCs including platelet counts and peripheral blood smears should be obtained monthly thereafter. Dose reductions on the daily dose by 25 mg should be considered if platelet counts exceed the required target. It is recommended to wait for 2 weeks to assess the effects of this and any subsequent dose adjustments.

A dose of 100 mg eltrombopag once daily must not be exceeded.
Table 2  Dose adjustments of eltrombopag in HCV patients during antiviral therapy

<table>
<thead>
<tr>
<th>Platelet count</th>
<th>Dose adjustment or response</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;50 000/µl following at least 2 weeks of therapy</td>
<td>Increase daily dose by 25 mg to a maximum of 100 mg/day.</td>
</tr>
<tr>
<td>≥50 000/µl to ≤100 000/µl</td>
<td>Use lowest dose of eltrombopag as necessary to avoid dose reductions of peginterferon.</td>
</tr>
<tr>
<td>&gt;100 000/µl to ≤150 000/µl</td>
<td>Decrease the daily dose by 25 mg. Wait 2 weeks to assess the effects of this and any subsequent dose adjustments*.</td>
</tr>
<tr>
<td>&gt;150 000/µl</td>
<td>Stop eltrombopag; increase the frequency of platelet monitoring to twice weekly. Once the platelet count is ≤100 000/µl, reinitiate therapy at a daily dose reduced by 25 mg*.</td>
</tr>
</tbody>
</table>

* For patients taking 25 mg eltrombopag once daily, consideration should be given to reinitiating dosing at 25 mg every other day.
* On initiation of antiviral therapy the platelet count may fall, so immediate eltrombopag dose reductions should be avoided.

Discontinuation
If after 2 weeks of eltrombopag therapy at 100 mg the required platelet level to initiate antiviral therapy is not achieved, eltrombopag should be discontinued.

Eltrombopag treatment should be terminated when antiviral therapy is discontinued unless otherwise justified. Excessive platelet count responses or important liver test abnormalities also necessitate discontinuation.

Severe aplastic anaemia

Initial dose regimen
Eltrombopag should be initiated at a dose of 50 mg once daily. For patients of East-/Southeast-Asian ancestry, eltrombopag should be initiated at a reduced dose of 25 mg once daily (see section 5.2). The treatment should not be initiated when the patient has existing cytogenetic abnormalities of chromosome 7.

Monitoring and dose adjustment
Haematological response requires dose titration, generally up to 150 mg, and may take up to 16 weeks after starting eltrombopag (see section 5.1). The dose of eltrombopag should be adjusted in 50 mg increments every 2 weeks as necessary to achieve the target platelet count ≥50 000/µl. For patients taking 25 mg once daily, the dose should be increased to 50 mg daily before increasing the dose amount by 50 mg. A dose of 150 mg daily must not be exceeded. Clinical haematology and liver tests should be monitored regularly throughout therapy with eltrombopag and the dosage regimen of eltrombopag modified based on platelet counts as outlined in Table 3.
Table 3  Dose adjustments of eltrombopag in patients with severe aplastic anaemia

<table>
<thead>
<tr>
<th>Platelet count</th>
<th>Dose adjustment or response</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;50 000/µl following at least 2 weeks of therapy</td>
<td>Increase daily dose by 50 mg to a maximum of 150 mg/day. For patients taking 25 mg once daily, increase the dose to 50 mg daily before increasing the dose amount by 50 mg.</td>
</tr>
<tr>
<td>≥50 000/µl to ≤150 000/µl</td>
<td>Use lowest dose of eltrombopag to maintain platelet counts.</td>
</tr>
<tr>
<td>&gt;150 000/µl to ≤250 000/µl</td>
<td>Decrease the daily dose by 50 mg. Wait 2 weeks to assess the effects of this and any subsequent dose adjustments.</td>
</tr>
<tr>
<td>&gt;250 000/µl</td>
<td>Stop eltrombopag; for at least one week. Once the platelet count is ≤100 000/µl, reinitiate therapy at a daily dose reduced by 50 mg.</td>
</tr>
</tbody>
</table>

Tapering for tri-lineage (white blood cells, red blood cells, and platelets) responders

For patients who achieve tri-lineage response, including transfusion independence, lasting at least 8 weeks: the dose of eltrombopag may be reduced by 50%.

If counts remain stable after 8 weeks at the reduced dose, then eltrombopag must be discontinued and blood counts monitored. If platelet counts drop to <30 000/µl, haemoglobin drops to <9 g/dl or absolute neutrophil count (ANC) to <0.5 x 10^9/l, eltrombopag may be reinitiated at the previous effective dose.

Discontinuation

If no haematological response has occurred after 16 weeks of therapy with eltrombopag, therapy should be discontinued. If new cytogenetic abnormalities are detected, it must be evaluated whether continuation of eltrombopag is appropriate (see sections 4.4 and 4.8). Excessive platelet count responses (as outlined in Table 3) or important liver test abnormalities also necessitate discontinuation of eltrombopag (see section 4.8).

Special populations

Renal impairment

No dose adjustment is necessary in patients with renal impairment. Patients with impaired renal function should use eltrombopag with caution and close monitoring, for example by testing serum creatinine and/or performing urine analysis (see section 5.2).

Hepatic impairment

Eltrombopag should not be used in ITP patients with hepatic impairment (Child-Pugh score ≥5) unless the expected benefit outweighs the identified risk of portal venous thrombosis (see section 4.4).

If the use of eltrombopag is deemed necessary for ITP patients with hepatic impairment the starting dose must be 25 mg once daily. After initiating the dose of eltrombopag in patients with hepatic impairment an interval of 3 weeks should be observed before increasing the dose.

No dose adjustment is required for thrombocytopenic patients with chronic HCV and mild hepatic impairment (Child-Pugh score ≤6). Chronic HCV patients and severe aplastic anaemia patients with hepatic impairment should initiate eltrombopag at a dose of 25 mg once daily (see section 5.2). After initiating the dose of eltrombopag in patients with hepatic impairment an interval of 2 weeks should be observed before increasing the dose.

There is an increased risk for adverse events, including hepatic decompensation and thromboembolic events (TEEs), in thrombocytopenic patients with advanced chronic liver disease treated with eltrombopag, either in preparation for invasive procedure or in HCV patients undergoing antiviral therapy (see sections 4.4 and 4.8).
Elderly
There are limited data on the use of eltrombopag in ITP patients aged 65 years and older and no clinical experience in ITP patients aged over 85 years. In the clinical studies of eltrombopag, overall no clinically significant differences in safety of eltrombopag were observed between patients aged at least 65 years and younger patients. Other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out (see section 5.2).

There are limited data on the use of eltrombopag in HCV and SAA patients aged over 75 years. Caution should be exercised in these patients (see section 4.4).

East-/Southeast-Asian patients
For adult and paediatric patients of East-/Southeast-Asian ancestry, including those with hepatic impairment, eltrombopag should be initiated at a dose of 25 mg once daily (see section 5.2).

Patient platelet count should continue to be monitored and the standard criteria for further dose modification followed.

Paediatric population
Revolade is not recommended for use in children under the age of one year with ITP due to insufficient data on safety and efficacy. The safety and efficacy of eltrombopag has not been established in children and adolescents (<18 years) with chronic HCV related thrombocytopenia or SAA. No data are available.

Method of administration (see section 6.6)
Oral use.
The suspension should be taken at least two hours before or four hours after any products such as antacids, dairy products (or other calcium containing food products), or mineral supplements containing polyvalent cations (e.g. iron, calcium, magnesium, aluminium, selenium and zinc) (see sections 4.5 and 5.2).

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

4.4 Special warnings and precautions for use

| There is an increased risk for adverse reactions, including potentially fatal hepatic decompensation and thromboembolic events, in thrombocytopenic HCV patients with advanced chronic liver disease, as defined by low albumin levels ≤35 g/l or model for end stage liver disease (MELD) score ≥10, when treated with eltrombopag in combination with interferon-based therapy. In addition, the benefits of treatment in terms of the proportion achieving sustained virological response (SVR) compared with placebo were modest in these patients (especially for those with baseline albumin ≤35 g/l) compared with the group overall. Treatment with eltrombopag in these patients should be initiated only by physicians experienced in the management of advanced HCV, and only when the risks of thrombocytopenia or withholding antiviral therapy necessitate intervention. If treatment is considered clinically indicated, close monitoring of these patients is required. |

Combination with direct-acting antiviral agents
Safety and efficacy have not been established in combination with direct-acting antiviral agents approved for treatment of chronic hepatitis C infection.
Risk of hepatotoxicity

Eltrombopag administration can cause abnormal liver function and severe hepatotoxicity, which might be life-threatening (see section 4.8).

Serum alanine aminotransferase (ALT), aspartate aminotransferase (AST) and bilirubin should be measured prior to initiation of eltrombopag, every 2 weeks during the dose adjustment phase and monthly following establishment of a stable dose. Eltrombopag inhibits UGT1A1 and OATP1B1, which may lead to indirect hyperbilirubinaemia. If bilirubin is elevated fractionation should be performed. Abnormal serum liver tests should be evaluated with repeat testing within 3 to 5 days. If the abnormalities are confirmed, serum liver tests should be monitored until the abnormalities resolve, stabilise, or return to baseline levels. Eltrombopag should be discontinued if ALT levels increase (≥3 times the upper limit of normal [x ULN] in patients with normal liver function, or ≥3 x baseline or >5 x ULN, whichever is the lower, in patients with pre-treatment elevations in transaminases) and are:

- progressive, or
- persistent for ≥4 weeks, or
- accompanied by increased direct bilirubin, or
- accompanied by clinical symptoms of liver injury or evidence for hepatic decompensation.

Caution is required when administering eltrombopag to patients with hepatic disease. In ITP and SAA patients a lower starting dose of eltrombopag should be used. Close monitoring is required when administering to patients with hepatic impairment (see section 4.2).

Hepatic decompensation (use with interferon)

Hepatic decompensation in patients with chronic hepatitis C: Monitoring is required in patients with low albumin levels (≤35 g/l) or with MELD score ≥10 at baseline.

Chronic HCV patients with liver cirrhosis may be at risk of hepatic decompensation when receiving alfa interferon therapy. In two controlled clinical studies in thrombocytopenic patients with HCV, hepatic decompensation (ascites, hepatic encephalopathy, variceal haemorrhage, spontaneous bacterial peritonitis) occurred more frequently in the eltrombopag arm (11%) than in the placebo arm (6%). In patients with low albumin levels (≤35 g/l) or with a MELD score ≥10 at baseline, there was a 3-fold greater risk of hepatic decompensation and an increase in the risk of a fatal adverse event compared to those with less advanced liver disease. In addition, the benefits of treatment in terms of the proportion achieving SVR compared with placebo were modest in these patients (especially for those with baseline albumin ≤35 g/l) compared with the group overall. Eltrombopag should only be administered to such patients after careful consideration of the expected benefits in comparison with the risks. Patients with these characteristics should be closely monitored for signs and symptoms of hepatic decompensation. The respective interferon summary of product characteristics should be referenced for discontinuation criteria. Eltrombopag should be terminated if antiviral therapy is discontinued for hepatic decompensation.

Thrombotic/thromboembolic complications

In controlled studies in thrombocytopenic patients with HCV receiving interferon-based therapy (n=1 439), 38 out of 955 patients (4%) treated with eltrombopag and 6 out of 484 patients (1%) in the placebo group experienced TEEs. Reported thrombotic/thromboembolic complications included both venous and arterial events. The majority of TEEs were non-serious and resolved by the end of the study. Portal vein thrombosis was the most common TEE in both treatment groups (2% in patients treated with eltrombopag versus <1% for placebo). No specific temporal relationship between start of treatment and event of TEE were observed. Patients with low albumin levels (≤35 g/l) or MELD ≥10 had a 2-fold greater risk of TEEs than those with higher albumin levels; those aged ≥60 years had a 2-fold greater risk of TEEs compared to younger patients. Eltrombopag should only be administered to such patients after careful consideration of the expected benefits in comparison with the risks. Patients should be closely monitored for signs and symptoms of TEE.
The risk of TEEs has been found to be increased in patients with chronic liver disease (CLD) treated with 75 mg eltrombopag once daily for 2 weeks in preparation for invasive procedures. Six of 143 (4%) adult patients with CLD receiving eltrombopag experienced TEEs (all of the portal venous system) and two of 145 (1%) patients in the placebo group experienced TEEs (one in the portal venous system and one myocardial infarction). Five of the 6 patients treated with eltrombopag experienced the thrombotic complication at a platelet count >200 000/µl and within 30 days of the last dose of eltrombopag. Eltrombopag is not indicated for the treatment of thrombocytopenia in patients with chronic liver disease in preparation for invasive procedures.

In eltrombopag clinical studies in ITP thromboembolic events were observed at low and normal platelet counts. Caution should be used when administering eltrombopag to patients with known risk factors for thromboembolism including but not limited to inherited (e.g. Factor V Leiden) or acquired risk factors (e.g. ATIII deficiency, antiphospholipid syndrome), advanced age, patients with prolonged periods of immobilisation, malignancies, contraceptives and hormone replacement therapy, surgery/trauma, obesity and smoking. Platelet counts should be closely monitored and consideration given to reducing the dose or discontinuing eltrombopag treatment if the platelet count exceeds the target levels (see section 4.2). The risk-benefit balance should be considered in patients at risk of TEEs of any aetiology.

No case of TEE was identified from a clinical study in refractory SAA, however the risk of these events cannot be excluded in this patient population due to the limited number of exposed patients. As the highest authorised dose is indicated for patients with SAA (150 mg/day) and due to the nature of the reaction, TEEs might be expected in this patient population.

Eltrombopag should not be used in ITP patients with hepatic impairment (Child-Pugh score ≥5) unless the expected benefit outweighs the identified risk of portal venous thrombosis. When treatment is considered appropriate, caution is required when administering eltrombopag to patients with hepatic impairment (see sections 4.2 and 4.8).

Bleeding following discontinuation of eltrombopag

Thrombocytopenia is likely to reoccur in ITP patients upon discontinuation of treatment with eltrombopag. Following discontinuation of eltrombopag, platelet counts return to baseline levels within 2 weeks in the majority of patients, which increases the bleeding risk and in some cases may lead to bleeding. This risk is increased if eltrombopag treatment is discontinued in the presence of anticoagulants or anti-platelet agents. It is recommended that, if treatment with eltrombopag is discontinued, ITP treatment be restarted according to current treatment guidelines. Additional medical management may include cessation of anticoagulant and/or anti-platelet therapy, reversal of anticoagulation, or platelet support. Platelet counts must be monitored weekly for 4 weeks following discontinuation of eltrombopag.

In HCV clinical studies, a higher incidence of gastrointestinal bleeding, including serious and fatal cases, was reported following discontinuation of peginterferon, ribavirin, and eltrombopag. Following discontinuation of therapy, patients should be monitored for any signs or symptoms of gastrointestinal bleeding.

Bone marrow reticulin formation and risk of bone marrow fibrosis

Eltrombopag may increase the risk for development or progression of reticulin fibres within the bone marrow. The relevance of this finding, as with other thrombopoietin-receptor (TPO-R) agonists, has not been established yet.
Prior to initiation of eltrombopag, the peripheral blood smear should be examined closely to establish a baseline level of cellular morphologic abnormalities. Following identification of a stable dose of eltrombopag, full blood count (FBC) with white blood cell count (WBC) differential should be performed monthly. If immature or dysplastic cells are observed, peripheral blood smears should be examined for new or worsening morphological abnormalities (e.g. teardrop and nucleated red blood cells, immature white blood cells) or cytopenia(s). If the patient develops new or worsening morphological abnormalities or cytopenia(s), treatment with eltrombopag should be discontinued and a bone marrow biopsy considered, including staining for fibrosis.

**Progression of existing myelodysplastic syndrome (MDS)**

There is a theoretical concern that TPO-R agonists may stimulate the progression of existing haematological malignancies such as MDS. TPO-R agonists are growth factors that lead to thrombopoietic progenitor cell expansion, differentiation and platelet production. The TPO-R is predominantly expressed on the surface of cells of the myeloid lineage.

In clinical studies with a TPO-R agonist in patients with MDS, cases of transient increases in blast cell counts were observed and cases of MDS disease progression to acute myeloid leukaemia (AML) were reported.

The diagnosis of ITP or SAA in adults and elderly patients should be confirmed by the exclusion of other clinical entities presenting with thrombocytopenia, in particular the diagnosis of MDS must be excluded. Consideration should be given to performing a bone marrow aspirate and biopsy over the course of the disease and treatment, particularly in patients over 60 years of age, those with systemic symptoms, or abnormal signs such as increased peripheral blast cells.

The effectiveness and safety of Revolade have not been established for the treatment of thrombocytopenia due to MDS. Revolade should not be used outside of clinical studies for the treatment of thrombocytopenia due to MDS.

**Cytogenetic abnormalities and progression to MDS/AML in patients with SAA**

Cytogenetic abnormalities are known to occur in SAA patients. It is not known whether eltrombopag increases the risk of cytogenetic abnormalities in patients with SAA. In the phase II refractory SAA clinical study with eltrombopag with a starting dose of 50 mg/day (escalated every 2 weeks to a maximum of 150 mg/day) (ELT112523), the incidence of new cytogenetic abnormalities was observed in 17.1% of patients [7/41 (where 4 of them had changes in chromosome 7)]. The median time on study to a cytogenetic abnormality was 2.9 months.

In the phase II refractory SAA clinical study with eltrombopag at a dose of 150 mg/day (with ethnic or age related modifications as indicated) (ELT116826), the incidence of new cytogenetic abnormalities was observed in 22.6% of adult patients [7/31 (where 3 of them had changes in chromosome 7)]. All 7 patients had normal cytogenetics at baseline. Six patients had cytogenetic abnormality at Month 3 of eltrombopag therapy and one patient had cytogenetic abnormality at Month 6.

In clinical studies with eltrombopag in SAA, 4% of patients (5/133) were diagnosed with MDS. The median time to diagnosis was 3 months from the start of eltrombopag treatment.

For SAA patients refractory to or heavily pretreated with prior immunosuppressive therapy, bone marrow examination with aspirations for cytogenetics is recommended prior to initiation of eltrombopag, at 3 months of treatment and 6 months thereafter. If new cytogenetic abnormalities are detected, it must be evaluated whether continuation of eltrombopag is appropriate.
Ocular changes

Cataracts were observed in toxicology studies of eltrombopag in rodents (see section 5.3). In controlled studies in thrombocytopenic patients with HCV receiving interferon therapy (n=1 439), progression of pre-existing baseline cataract(s) or incident cataracts was reported in 8% of the eltrombopag group and 5% of the placebo group. Retinal haemorrhages, mostly Grade 1 or 2, have been reported in HCV patients receiving interferon, ribavirin and eltrombopag (2% of the eltrombopag group and 2% of the placebo group. Haemorrhages occurred on the surface of the retina (preretinal), under the retina (subretinal), or within the retinal tissue. Routine ophthalmologic monitoring of patients is recommended.

QT/QTc prolongation

A QTc study in healthy volunteers dosed 150 mg eltrombopag per day did not show a clinically significant effect on cardiac repolarisation. QTc interval prolongation has been reported in clinical studies of patients with ITP and thrombocytopenic patients with HCV. The clinical significance of these QTc prolongation events is unknown.

Loss of response to eltrombopag

A loss of response or failure to maintain a platelet response with eltrombopag treatment within the recommended dosing range should prompt a search for causative factors, including an increased bone marrow reticulin.

Paediatric population

The above warnings and precautions for ITP also apply to the paediatric population.

Interference with laboratory tests

Eltrombopag is highly coloured and so has the potential to interfere with some laboratory tests. Serum discolouration and interference with total bilirubin and creatinine testing have been reported in patients taking Revolade. If the laboratory results and clinical observations are inconsistent, re-testing using another method may help in determining the validity of the result.

4.5 Interaction with other medicinal products and other forms of interaction

Effects of eltrombopag on other medicinal products

HMG CoA reductase inhibitors

Administration of eltrombopag 75 mg once daily for 5 days with a single 10 mg dose of the OATP1B1 and BCRP substrate rosuvastatin to 39 healthy adult subjects increased plasma rosuvastatin Cmax 103% (90% confidence interval [CI]: 82%, 126%) and AUC0-∞ 55% (90% CI: 42%, 69%). Interactions are also expected with other HMG-CoA reductase inhibitors, including atorvastatin, fluvastatin, lovastatin, pravastatin and simvastatin. When co-administered with eltrombopag, a reduced dose of statins should be considered and careful monitoring for statin adverse reactions should be undertaken (see section 5.2).

OATP1B1 and BCRP substrates

Concomitant administration of eltrombopag and OATP1B1 (e.g. methotrexate) and BCRP (e.g. topotecan and methotrexate) substrates should be undertaken with caution (see section 5.2).
Cytochrome P450 substrates

In studies utilising human liver microsomes, eltrombopag (up to 100 μM) showed no in vitro inhibition of the CYP450 enzymes 1A2, 2A6, 2C19, 2D6, 2E1, 3A4/5, and 4A9/11 and was an inhibitor of CYP2C8 and CYP2C9 as measured using paclitaxel and diclofenac as the probe substrates. Administration of eltrombopag 75 mg once daily for 7 days to 24 healthy male subjects did not inhibit or induce the metabolism of probe substrates for 1A2 (caffeine), 2C19 (omeprazole), 2C9 (flurbiprofen), or 3A4 (midazolam) in humans. No clinically significant interactions are expected when eltrombopag and CYP450 substrates are co-administered (see section 5.2).

HCV protease inhibitors

Dose adjustment is not required when eltrombopag is co-administered with either telaprevir or boceprevir. Co-administration of a single dose of eltrombopag 200 mg with telaprevir 750 mg every 8 hours did not alter plasma telaprevir exposure.

Co-administration of a single dose of eltrombopag 200 mg with boceprevir 800 mg every 8 hours did not alter plasma boceprevir \( \text{AUC}_{0-\infty} \), but increased \( C_{\text{max}} \) by 20%, and decreased \( C_{\text{min}} \) by 32%. The clinical relevance of the decrease in \( C_{\text{min}} \) has not been established, increased clinical and laboratory monitoring for HCV suppression is recommended.

Effects of other medicinal products on eltrombopag

Ciclosporin

A decrease in eltrombopag exposure was observed with co-administration of 200 mg and 600 mg ciclosporin (a BCRP inhibitor). The co-administration of 200 mg ciclosporin decreased the \( C_{\text{max}} \) and the \( \text{AUC}_{0-\infty} \) of eltrombopag by 25% and 18%, respectively. The co-administration of 600 mg ciclosporin decreased the \( C_{\text{max}} \) and the \( \text{AUC}_{0-\infty} \) of eltrombopag by 39% and 24%, respectively. Eltrombopag dose adjustment is permitted during the course of the treatment based on the patient’s platelet count (see section 4.2). Platelet count should be monitored at least weekly for 2 to 3 weeks when eltrombopag is co-administered with ciclosporin. Eltrombopag dose may need to be increased based on these platelet counts.

Polyvalent cations (chelation)

Eltrombopag chelates with polyvalent cations such as iron, calcium, magnesium, aluminium, selenium and zinc. Administration of a single dose of eltrombopag 75 mg with a polyvalent cation-containing antacid (1 524 mg aluminium hydroxide and 1 425 mg magnesium carbonate) decreased plasma eltrombopag \( \text{AUC}_{0-\infty} \) by 70% (90% CI: 64%, 76%) and \( C_{\text{max}} \) by 70% (90% CI: 62%, 76%). Eltrombopag should be taken at least two hours before or four hours after any products such as antacids, dairy products or mineral supplements containing polyvalent cations to avoid significant reduction in eltrombopag absorption due to chelation (see sections 4.2 and 5.2).

Lopinavir/ritonavir

Co-administration of eltrombopag with lopinavir/ritonavir may cause a decrease in the concentration of eltrombopag. A study in 40 healthy volunteers showed that the co-administration of a single 100 mg dose of eltrombopag with repeat dose lopinavir/ritonavir 400/100 mg twice daily resulted in a reduction in eltrombopag plasma \( \text{AUC}_{0-\infty} \) by 17% (90% CI: 6.6%, 26.6%). Therefore, caution should be used when co-administration of eltrombopag with lopinavir/ritonavir takes place. Platelet count should be closely monitored in order to ensure appropriate medical management of the dose of eltrombopag when lopinavir/ritonavir therapy is initiated or discontinued.
**CYP1A2 and CYP2C8 inhibitors and inducers**

Eltrombopag is metabolised through multiple pathways including CYP1A2, CYP2C8, UGT1A1, and UGT1A3 (see section 5.2). Medicinal products that inhibit or induce a single enzyme are unlikely to significantly affect plasma eltrombopag concentrations, whereas medicinal products that inhibit or induce multiple enzymes have the potential to increase (e.g. fluvoxamine) or decrease (e.g. rifampicin) eltrombopag concentrations.

**HCV protease inhibitors**

Results of a drug-drug pharmacokinetic (PK) interaction study show that co-administration of repeat doses of boceprevir 800 mg every 8 hours or telaprevir 750 mg every 8 hours with a single dose of eltrombopag 200 mg did not alter plasma eltrombopag exposure to a clinically significant extent.

**Medicinal products for treatment of ITP**

Medicinal products used in the treatment of ITP in combination with eltrombopag in clinical studies included corticosteroids, danazol, and/or azathioprine, intravenous immunoglobulin (IVIG), and anti-D immunoglobulin. Platelet counts should be monitored when combining eltrombopag with other medicinal products for the treatment of ITP in order to avoid platelet counts outside of the recommended range (see section 4.2).

**Food interaction**

The administration of eltrombopag tablet or powder for oral suspension formulations with a high-calcium meal (e.g. a meal that included dairy products) significantly reduced plasma eltrombopag AUC$_{0-\infty}$ and C$_{\text{max}}$. In contrast, the administration of eltrombopag 2 hours before or 4 hours after a high-calcium meal or with low-calcium food [<50 mg calcium] did not alter plasma eltrombopag exposure to a clinically significant extent (see section 4.2).

Administration of a single 50 mg dose of eltrombopag in tablet form with a standard high-calorie, high-fat breakfast that included dairy products reduced plasma eltrombopag mean AUC$_{0-\infty}$ by 59% and mean C$_{\text{max}}$ by 65%.

Administration of a single 25 mg dose of eltrombopag as powder for oral suspension with a high-calcium, moderate-fat and moderate-calorie meal reduced plasma eltrombopag mean AUC$_{0-\infty}$ by 75% and mean C$_{\text{max}}$ by 79%. This decrease of exposure was attenuated when a single 25 mg dose of eltrombopag powder for oral suspension was administered 2 hours before a high-calcium meal (mean AUC$_{0-\infty}$ was decreased by 20% and mean C$_{\text{max}}$ by 14%).

Food low in calcium (<50 mg calcium), including fruit, lean ham, beef and unfortified (no added calcium, magnesium or iron) fruit juice, unfortified soya milk and unfortified grain, did not significantly impact plasma eltrombopag exposure, regardless of calorie and fat content (see sections 4.2 and 4.5).

**4.6 Fertility, pregnancy and lactation**

**Pregnancy**

There are no or limited amount of data from the use of eltrombopag in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). The potential risk for humans is unknown. Revolade is not recommended during pregnancy.

**Women of childbearing potential / Contraception in males and females**

Revolade is not recommended in women of childbearing potential not using contraception.
Breast-feeding

It is not known whether eltrombopag/metabolites are excreted in human milk. Studies in animals have shown that eltrombopag is likely secreted into milk (see section 5.3); therefore a risk to the suckling child cannot be excluded. A decision must be made whether to discontinue breast-feeding or to continue/abstain from Revolade therapy, taking into account the benefit of breast-feeding for the child and the benefit of therapy for the woman.

Fertility

Fertility was not affected in male or female rats at exposures that were comparable to those in humans. However a risk for humans cannot be ruled out (see section 5.3).

4.7 Effects on ability to drive and use machines

Eltrombopag has negligible influence on the ability to drive and use machines. The clinical status of the patient and the adverse reaction profile of eltrombopag, including dizziness and lack of alertness, should be borne in mind when considering the patient’s ability to perform tasks that require judgement, motor and cognitive skills.

4.8 Undesirable effects

Summary of the safety profile

Immune thrombocytopenia in adult and paediatric patients

The safety of Revolade was assessed in adult patients (N=763) using the pooled double-blind, placebo-controlled studies TRA100773A and B, TRA102537 (RAISE) and TRA113765, in which 403 patients were exposed to Revolade and 179 to placebo, in addition to data from the completed open-label studies (N=360) TRA108057 (REPEAT), TRA105325 (EXTEND) and TRA112940 (see section 5.1). Patients received study medication for up to 8 years (in EXTEND). The most important serious adverse reactions were hepatotoxicity and thrombotic/thromboembolic events. The most common adverse reactions occurring in at least 10% of patients included nausea, diarrhoea, increased alanine aminotransferase and back pain.

The safety of Revolade in paediatric patients (aged 1 to 17 years) with previously treated ITP has been demonstrated in two studies (N=171) (see section 5.1). PETIT2 (TRA115450) was a two-part, double-blind and open-label, randomised, placebo-controlled study. Patients were randomised 2:1 and received Revolade (n=63) or placebo (n=29) for up to 13 weeks in the randomised period of the study. PETIT (TRA108062) was a three-part, staggered-cohort, open-label and double-blind, randomised, placebo-controlled study. Patients were randomised 2:1 and received Revolade (n=44) or placebo (n=21), for up to 7 weeks. The profile of adverse reactions was comparable to that seen in adults with some additional adverse reactions, marked ♦ in the table below. The most common adverse reactions in paediatric ITP patients 1 year and older (≥3% and greater than placebo) were upper respiratory tract infection, nasopharyngitis, cough, pyrexia, abdominal pain, oropharyngeal pain, toothache and rhinorrhea.
Thrombocytopenia with HCV infection in adult patients

ENABLE 1 (TPL103922 n=716, 715 treated with eltrombopag) and ENABLE 2 (TPL108390 n=805) were randomised, double-blind, placebo-controlled, multicentre studies to assess the efficacy and safety of Revolade in thrombocytopenic patients with HCV infection who were otherwise eligible to initiate antiviral therapy. In the HCV studies the safety population consisted of all randomised patients who received double-blind study medicinal product during Part 2 of ENABLE 1 (Revolade treatment n=450, placebo treatment n=232) and ENABLE 2 (Revolade treatment n=506, placebo treatment n=252). Patients are analysed according to the treatment received (total safety double-blind population, Revolade n=955 and placebo n=484). The most important serious adverse reactions identified were hepatotoxicity and thrombotic/thromboembolic events. The most common adverse reactions occurring in at least 10% of patients included headache, anaemia, decreased appetite, cough, nausea, diarrhoea, hyperbilirubinaemia, alopecia, pruritus, myalgia, pyrexia, fatigue, influenza-like illness, asthenia, chills and oedema.

Severe aplastic anaemia in adult patients

The safety of Revolade in severe aplastic anaemia was assessed in a single-arm, open-label study (N=43) in which 11 patients (26%) were treated for >6 months and 7 patients (16%) were treated for >1 year (see section 5.1). The most common adverse reactions occurring in at least 10% of patients included headache, dizziness, cough, oropharyngeal pain, rhinorrhoea, nausea, diarrhoea, abdominal pain, transaminases increased, arthralgia, pain in extremity, muscle spasms, fatigue and pyrexia.

List of adverse reactions

The adverse reactions in the adult ITP studies (N=763), paediatric ITP studies (N=171), the HCV studies (N=1,520), the SAA studies (N=43) and post-marketing reports are listed below by MedDRA system organ class and by frequency. Within each system organ class, the adverse drug reactions are ranked by frequency, with the most frequent reactions first. The corresponding frequency category for each adverse drug reaction is based on the following convention (CIOMS III): very common (≥1/10); common (≥1/100 to <1/10); uncommon (≥1/1000 to <1/100); rare (≥1/10 000 to <1/1000); not known (cannot be estimated from the available data).

ITP study population

<table>
<thead>
<tr>
<th>System organ class</th>
<th>Frequency</th>
<th>Adverse reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Very common</td>
<td>Nasopharyngitis*, upper respiratory tract infection*</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Pharyngitis, influenza, oral herpes, pneumonia, sinusitis, tonsillitis, respiratory tract infection, gingivitis</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Skin infection</td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Uncommon</td>
<td>Rectosigmoid cancer</td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Common</td>
<td>Anaemia, eosinophilia, leukocytosis, thrombocytopenia, haemoglobin decreased, white blood cell count decreased</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Anisocytosis, haemolytic anaemia, myelocytosis, band neutrophil count increased, myelocyte present, platelet count increased, haemoglobin increased</td>
</tr>
<tr>
<td>Immune system disorders</td>
<td>Uncommon</td>
<td>Hypersensitivity</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Common</td>
<td>Hypokalaemia, decreased appetite, blood uric acid increased</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Anorexia, gout, hypocalcaemia</td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td>Common</td>
<td>Sleep disorder, depression</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Apathy, mood altered, tearfulness</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Common</td>
<td>Paraesthesia, hypoaesthesia, somnolence, migraine</td>
</tr>
<tr>
<td>--------------------------</td>
<td>--------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Tremor, balance disorder, dysesthesia, hemiparesis, migraine with aura, neuropathy peripheral, peripheral sensory neuropathy, speech disorder, toxic neuropathy, vascular headache</td>
<td></td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Common</td>
<td>Dry eye, vision blurred, eye pain, visual acuity reduced</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Lenticular opacities, astigmatism, cataract cortical, lacrimation increased, retinal haemorrhage, retinal pigment epitheliopathy, visual impairment, visual acuity tests abnormal, blepharitis, keratoconjunctivitis sicca</td>
<td></td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td>Common</td>
<td>Ear pain, vertigo</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Uncommon</td>
<td>Tachycardia, acute myocardial infarction, cardiovascular disorder, cyanosis, sinus tachycardia, electrocardiogram QT prolonged</td>
</tr>
<tr>
<td>Vascular disorders</td>
<td>Common</td>
<td>Deep vein thrombosis, haematoma, hot flush</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Embolism, thrombophlebitis superficial, flushing</td>
<td></td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Very common</td>
<td>Cough*</td>
</tr>
<tr>
<td>Common</td>
<td>Oropharyngeal pain*, rhinorrhea*</td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Pulmonary embolism, pulmonary infarction, nasal discomfort, oropharyngeal blisters, sinus disorder, sleep apnoea syndrome</td>
<td></td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Very common</td>
<td>Nausea, diarrhoea</td>
</tr>
<tr>
<td>Common</td>
<td>Mouth ulceration, toothache*, vomiting, abdominal pain*, mouth haemorrhage, flatulence * Very common in paediatric ITP</td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Dry mouth, glossodynia, abdominal tenderness, faeces discoloured, food poisoning, frequent bowel movements, haematemesis, oral discomfort</td>
<td></td>
</tr>
<tr>
<td>Hepatobiliary disorders</td>
<td>Very common</td>
<td>Alanine aminotransferase increased†</td>
</tr>
<tr>
<td>Common</td>
<td>Aspartate aminotransferase increased†, hyperbilirubinaemia, hepatic function abnormal</td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Cholestasis, hepatic lesion, hepatitis, drug-induced liver injury</td>
<td></td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Common</td>
<td>Rash, alopecia, hyperhidrosis, pruritus generalised, petechiae</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Urticaria, dermatosis, cold sweat, erythema, melanosis, pigmentation disorder, skin discoloration, skin exfoliation</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Very common</td>
<td>Back pain</td>
</tr>
<tr>
<td>Common</td>
<td>Myalgia, muscle spasm, musculoskeletal pain, bone pain</td>
<td></td>
</tr>
<tr>
<td>Uncommon</td>
<td>Muscular weakness</td>
<td></td>
</tr>
<tr>
<td>Renal and urinary disorders</td>
<td>Common</td>
<td>Proteinuria, blood creatinine increased, thrombotic microangiopathy with renal failure†</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Renal failure, leukocyturia, lupus nephritis, nocturia, blood urea increased, urine protein/creatinine ratio increased</td>
<td></td>
</tr>
<tr>
<td>Reproductive system and breast disorders</td>
<td>Common</td>
<td>Menorrhagia</td>
</tr>
</tbody>
</table>
### General disorders and administration site conditions

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Adverse reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common</td>
<td>Pyrexia*, chest pain, asthenia</td>
</tr>
<tr>
<td></td>
<td>*Very common in paediatric ITP</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Feeling hot, vessel puncture site haemorrhage, feeling jittery, inflammation of wound, malaise, sensation of foreign body</td>
</tr>
</tbody>
</table>

### Investigations

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Adverse reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common</td>
<td>Blood alkaline phosphatase increased</td>
</tr>
<tr>
<td>Uncommon</td>
<td>Blood albumin increased, protein total increased, blood albumin decreased, pH urine increased</td>
</tr>
</tbody>
</table>

### Injury, poisoning and procedural complications

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Adverse reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uncommon</td>
<td>Sunburn</td>
</tr>
</tbody>
</table>

* Additional adverse reactions observed in paediatric studies (aged 1 to 17 years).
† Increase of alanine aminotransferase and aspartate aminotransferase may occur simultaneously, although at a lower frequency.
‡ Grouped term with preferred terms acute kidney injury and renal failure

### HCV study population (in combination with anti-viral interferon and ribavirin therapy)

<table>
<thead>
<tr>
<th>System organ class</th>
<th>Frequency</th>
<th>Adverse reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections and infestations</td>
<td>Common</td>
<td>Urinary tract infection, upper respiratory tract infection, bronchitis, nasopharyngitis, influenza, oral herpes</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Gastroenteritis, pharyngitis</td>
</tr>
<tr>
<td>Neoplasms benign, malignant and unspecified (incl cysts and polyps)</td>
<td>Common</td>
<td>Hepatic neoplasm malignant</td>
</tr>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Very common</td>
<td>Anaemia</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Lymphopenia</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Haemolytic anaemia</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Very common</td>
<td>Decreased appetite</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Hyperglycaemia, abnormal loss of weight</td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td>Common</td>
<td>Depression, anxiety, sleep disorder</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Confusional state, agitation</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Very common</td>
<td>Headache</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Dizziness, disturbance in attention, dysgeusia, hepatic encephalopathy, lethargy, memory impairment, paraesthesia</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Common</td>
<td>Cataract, retinal exudates, dry eye, ocular icterus, retinal haemorrhage</td>
</tr>
<tr>
<td>Ear and labyrinth disorders</td>
<td>Common</td>
<td>Vertigo</td>
</tr>
<tr>
<td>Cardiac disorders</td>
<td>Common</td>
<td>Palpitations</td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Very common</td>
<td>Cough</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Dyspnoea, oropharyngeal pain, dyspnoea exertional, productive cough</td>
</tr>
<tr>
<td>Disorder Category</td>
<td>Frequency</td>
<td>Symptoms</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Very common</td>
<td>Nausea, diarrhoea</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Vomiting, ascites, abdominal pain, abdominal pain upper, dyspepsia, dry mouth, constipation, abdominal distension, toothache, stomatitis, gastrooesophageal reflux disease, haemorrhoids, abdominal discomfort, varices oesophageal</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Oesophageal varices haemorrhage, gastritis, aphthous stomatitis</td>
</tr>
<tr>
<td>Hepatobiliary disorders</td>
<td>Common</td>
<td>Hyperbilirubinaemia, jaundice, drug-induced liver injury</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Portal vein thrombosis, hepatic failure</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Very common</td>
<td>Pruritus</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Rash, dry skin, eczema, rash pruritic, erythema, hyperhidrosis, pruritus generalised, alopecia</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Skin lesion, skin discolouration, skin hyperpigmentation, night sweats</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorder</td>
<td>Very common</td>
<td>Myalgia</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Arthralgia, muscle spasms, back pain, pain in extremity, musculoskeletal pain, bone pain</td>
</tr>
<tr>
<td>Renal and urinary disorders</td>
<td>Uncommon</td>
<td>Thrombotic microangiopathy with acute renal failure†, dysuria</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Very common</td>
<td>Pyrexia, fatigue, influenza-like illness, asthenia, chills</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Irritability, pain, malaise, injection site reaction, non-cardiac chest pain, oedema, oedema peripheral</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Injection site pruritus, injection site rash, chest discomfort</td>
</tr>
<tr>
<td>Investigations</td>
<td>Common</td>
<td>Blood bilirubin increased, weight decreased, white blood cell count decreased, haemoglobin decreased, neutrophil count decreased, international normalised ratio increased, activated partial thromboplastin time prolonged, blood glucose increased, blood albumin decreased</td>
</tr>
<tr>
<td></td>
<td>Uncommon</td>
<td>Electrocardiogram QT prolonged</td>
</tr>
</tbody>
</table>

† Grouped term with preferred terms oliguria, renal failure and renal impairment
SAA study population

<table>
<thead>
<tr>
<th>System organ class</th>
<th>Frequency</th>
<th>Adverse reaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood and lymphatic system disorders</td>
<td>Common</td>
<td>Neutropenia, splenic infarction</td>
</tr>
<tr>
<td>Metabolism and nutrition disorders</td>
<td>Common</td>
<td>Iron overload, decreased appetite, hypoglycaemia, increased appetite</td>
</tr>
<tr>
<td>Psychiatric disorders</td>
<td>Common</td>
<td>Anxiety, depression</td>
</tr>
<tr>
<td>Nervous system disorders</td>
<td>Very common</td>
<td>Headache, dizziness</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Syncope</td>
</tr>
<tr>
<td>Eye disorders</td>
<td>Common</td>
<td>Dry eye, cataract, ocular icterus, vision blurred, visual impairment, vitreous floaters</td>
</tr>
<tr>
<td>Respiratory, thoracic and mediastinal disorders</td>
<td>Very common</td>
<td>Cough, oropharyngeal pain, rhinorrhea</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Epistaxis</td>
</tr>
<tr>
<td>Gastrointestinal disorders</td>
<td>Very common</td>
<td>Diarrhoea, nausea, gingival bleeding, abdominal pain</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Oral mucosal blistering, oral pain, vomiting, abdominal discomfort, constipation, abdominal distension, dysphagia, faeces discoloured, swollen tongue, gastrointestinal motility disorder, flatulence</td>
</tr>
<tr>
<td>Hepatobiliary disorders</td>
<td>Very common</td>
<td>Transaminases increased</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Blood bilirubin (hyperbilirubinemia), jaundice</td>
</tr>
<tr>
<td></td>
<td>Not known</td>
<td>Drug-induced liver injury*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Cases of drug-induced liver injury have been reported in patients with ITP and HCV</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Common</td>
<td>Petechiae, rash, pruritus, urticaria, skin lesion, rash macular</td>
</tr>
<tr>
<td></td>
<td>Not known</td>
<td>Skin discoloration, skin hyperpigmentation</td>
</tr>
<tr>
<td>Musculoskeletal and connective tissue disorders</td>
<td>Very common</td>
<td>Arthralgia, pain in extremity, muscle spasms</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Back pain, myalgia, bone pain</td>
</tr>
<tr>
<td>Renal and urinary disorders</td>
<td>Common</td>
<td>Chromaturia</td>
</tr>
<tr>
<td>General disorders and administration site conditions</td>
<td>Very common</td>
<td>Fatigue, pyrexia, chills</td>
</tr>
<tr>
<td></td>
<td>Common</td>
<td>Asthenia, oedema peripheral, malaise</td>
</tr>
<tr>
<td>Investigations</td>
<td>Common</td>
<td>Blood creatine phosphokinase increased</td>
</tr>
</tbody>
</table>

Description of selected adverse reactions

Thrombotic/thromboembolic events (TEEs)

In 3 controlled and 2 uncontrolled clinical studies among adult ITP patients receiving eltrombopag (n=446), 17 patients experienced a total of 19 TEEs, which included (in descending order of occurrence) deep vein thrombosis (n=6), pulmonary embolism (n=6), acute myocardial infarction (n=2), cerebral infarction (n=2), embolism (n=1) (see section 4.4).

In a placebo-controlled study (n=288, Safety population), following 2 weeks’ treatment in preparation for invasive procedures, 6 of 143 (4%) adult patients with chronic liver disease receiving eltrombopag experienced 7 TEEs of the portal venous system and 2 of 145 (1%) patients in the placebo group experienced 3 TEEs. Five of the 6 patients treated with eltrombopag experienced the TEE at a platelet count >200 000/µl.
No specific risk factors were identified in those patients who experienced a TEE with the exception of platelet counts ≥200 000/µl (see section 4.4).

In controlled studies in thrombocytopenic patients with HCV (n=1 439), 38 out of 955 patients (4%) treated with eltrombopag experienced a TEE and 6 out of 484 patients (1%) in the placebo group experienced TEEs. Portal vein thrombosis was the most common TEE in both treatment groups (2% in patients treated with eltrombopag versus <1% for placebo) (see section 4.4). Patients with low albumin levels (≤35 g/l) or MELD ≥10 had a 2-fold greater risk of TEEs than those with higher albumin levels; those aged ≥60 years had a 2-fold greater risk of TEEs compared to younger patients.

**Hepatic decompensation (use with interferon)**

Chronic HCV patients with cirrhosis may be at risk of hepatic decompensation when receiving alfa interferon therapy. In 2 controlled clinical studies in thrombocytopenic patients with HCV, hepatic decompensation (ascites, hepatic encephalopathy, variceal haemorrhage, spontaneous bacterial peritonitis) was reported more frequently in the eltrombopag arm (11%) than in the placebo arm (6%). In patients with low albumin levels (≤35 g/l) or MELD score ≥10 at baseline, there was a 3-fold greater risk of hepatic decompensation and an increase in the risk of a fatal adverse event compared to those with less advanced liver disease. Eltrombopag should only be administered to such patients after careful consideration of the expected benefits in comparison with the risks. Patients with these characteristics should be closely monitored for signs and symptoms of hepatic decompensation (see section 4.4).

**Hepatotoxicity**

In the controlled clinical studies in chronic ITP with eltrombopag, increases in serum ALT, AST and bilirubin were observed (see section 4.4).

These findings were mostly mild (Grade 1-2), reversible and not accompanied by clinically significant symptoms that would indicate an impaired liver function. Across the 3 placebo-controlled studies in adults with chronic ITP, 1 patient in the placebo group and 1 patient in the eltrombopag group experienced a Grade 4 liver test abnormality. In two placebo-controlled studies in paediatric patients (aged 1 to 17 years) with chronic ITP, ALT ≥3 x ULN was reported in 4.7% and 0% of the eltrombopag and placebo groups, respectively.

In 2 controlled clinical studies in patients with HCV, ALT or AST ≥3 x ULN was reported in 34% and 38% of the eltrombopag and placebo groups, respectively. Most patients receiving eltrombopag in combination with peginterferon / ribavirin therapy will experience indirect hyperbilirubinaemia. Overall, total bilirubin ≥1.5 x ULN was reported in 76% and 50% of the eltrombopag and placebo groups, respectively.

In the single-arm phase II monotherapy refractory SAA study, concurrent ALT or AST >3 x ULN with total (indirect) bilirubin >1.5 x ULN were reported in 5% of patients. Total bilirubin >1.5 x ULN occurred in 14% of patients.

**Thrombocytopenia following discontinuation of treatment**

In the 3 controlled clinical ITP studies, transient decreases in platelet counts to levels lower than baseline were observed following discontinuation of treatment in 8% and 8% of the eltrombopag and placebo groups, respectively (see section 4.4).

**Increased bone marrow reticulin**

Across the programme, no patients had evidence of clinically relevant bone marrow abnormalities or clinical findings that would indicate bone marrow dysfunction. In a small number of ITP patients, eltrombopag treatment was discontinued due to bone marrow reticulin (see section 4.4).
Cytogenetic abnormalities

In the phase II refractory SAA clinical study with eltrombopag with a starting dose of 50 mg/day (escalated every 2 weeks to a maximum of 150 mg/day) (ELT112523), the incidence of new cytogenetic abnormalities was observed in 17.1% of adult patients [7/41 (where 4 of them had changes in chromosome 7)]. The median time on study to a cytogenetic abnormality was 2.9 months.

In the phase II refractory SAA clinical study with eltrombopag at a dose of 150 mg/day (with ethnic or age related modifications as indicated) (ELT116826), the incidence of new cytogenetic abnormalities was observed in 22.6% of adult patients [7/31 (where 3 of them had changes in chromosome 7)]. All 7 patients had normal cytogenetics at baseline. Six patients had cytogenetic abnormality at Month 3 of eltrombopag therapy and one patient had cytogenetic abnormality at Month 6.

Haematologic malignancies

In the single-arm, open-label study in SAA, three (7%) patients were diagnosed with MDS following treatment with eltrombopag, in the two ongoing studies (ELT116826 and ELT116643), 1/28 (4%) and 1/62 (2%) patient has been diagnosed with MDS or AML in each study.

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

In the event of overdose, platelet counts may increase excessively and result in thrombotic/thromboembolic complications. In case of an overdose, consideration should be given to oral administration of a metal cation-containing preparation, such as calcium, aluminium, or magnesium preparations to chelate eltrombopag and thus limit absorption. Platelet counts should be closely monitored. Treatment with eltrombopag should be reinitiated in accordance with dosing and administration recommendations (see section 4.2).

In the clinical studies there was one report of overdose where the patient ingested 5 000 mg of eltrombopag. Reported adverse reactions included mild rash, transient bradycardia, ALT and AST elevation, and fatigue. Liver enzymes measured between Days 2 and 18 after ingestion peaked at a 1.6-fold ULN in AST, a 3.9-fold ULN in ALT, and a 2.4-fold ULN in total bilirubin. The platelet counts were 672,000/µl on Day 18 after ingestion and the maximum platelet count was 929,000/µl. All events were resolved without sequelae following treatment.

Because eltrombopag is not significantly renally excreted and is highly bound to plasma proteins, haemodialysis would not be expected to be an effective method to enhance the elimination of eltrombopag.
5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Antihemorrhagics, other systemic hemostatics. ATC code: B02BX 05.

Mechanism of action

TPO is the main cytokine involved in regulation of megakaryopoiesis and platelet production, and is the endogenous ligand for the TPO-R. Eltrombopag interacts with the transmembrane domain of the human TPO-R and initiates signalling cascades similar but not identical to that of endogenous thrombopoietin (TPO), inducing proliferation and differentiation from bone marrow progenitor cells.

Clinical efficacy and safety

Immune (primary) thrombocytopenia (ITP) studies

Two phase III, randomised, double-blind, placebo-controlled studies RAISE (TRA102537) and TRA100773B and two open-label studies REPEAT (TRA108057) and EXTEND (TRA105325) evaluated the safety and efficacy of eltrombopag in adult patients with previously treated ITP. Overall, eltrombopag was administered to 277 ITP patients for at least 6 months and 202 patients for at least 1 year. The single-arm phase II study TAPER (CETB115J2411) evaluated the safety and efficacy of eltrombopag and its ability to induce sustained response after treatment discontinuation in 105 adult ITP patients who relapsed or failed to respond to first-line corticosteroid treatment.

Double-blind placebo-controlled studies
RAISE:
197 ITP patients were randomised 2:1, eltrombopag (n=135) to placebo (n=62), and randomisation was stratified based upon splenectomy status, use of ITP medicinal products at baseline and baseline platelet count. The dose of eltrombopag was adjusted during the 6 month treatment period based on individual platelet counts. All patients initiated treatment with eltrombopag 50 mg. From Day 29 to the end of treatment, 15 to 28% of eltrombopag treated patients were maintained on ≤25 mg and 29 to 53% received 75 mg.

In addition, patients could taper off concomitant ITP medicinal products and receive rescue treatments as dictated by local standard of care. More than half of all patients in each treatment group had ≥3 prior ITP therapies and 36% had a prior splenectomy.

Median platelet counts at baseline were 16 000/µl for both treatment groups and in the eltrombopag group were maintained above 50 000/µl at all on-therapy visits starting at Day 15; in contrast, median platelet counts in the placebo group remained <30 000/µl throughout the study. Platelet count response between 50 000-400 000/µl in the absence of rescue treatment was achieved by significantly more patients in the eltrombopag treated group during the 6-month treatment period, p <0.001. Fifty-four percent of the eltrombopag-treated patients and 13% of placebo-treated patients achieved this level of response after 6 weeks of treatment. A similar platelet response was maintained throughout the study, with 52% and 16% of patients responding at the end of the 6-month treatment period.
Table 4  Secondary efficacy results from RAISE

<table>
<thead>
<tr>
<th>Key secondary endpoints</th>
<th>Eltrombopag N=135</th>
<th>Placebo N=62</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cumulative weeks with platelet counts ≥50 000-400 000/µl, Mean (SD)</td>
<td>11.3 (9.46)</td>
<td>2.4 (5.95)</td>
</tr>
<tr>
<td>Patients with ≥75% of assessments in the target range (50 000 to 400 000/µl), n (%)</td>
<td>51 (38)</td>
<td>4 (7)</td>
</tr>
<tr>
<td>p-value&lt;sup&gt;a&lt;/sup&gt;</td>
<td>&lt;0.001</td>
<td></td>
</tr>
<tr>
<td>Patients with bleeding (WHO Grades 1-4) at any time during 6 months, n (%)</td>
<td>106 (79)</td>
<td>56 (93)</td>
</tr>
<tr>
<td>p-value&lt;sup&gt;a&lt;/sup&gt;</td>
<td>0.012</td>
<td></td>
</tr>
<tr>
<td>Patients with bleeding (WHO Grades 2-4) at any time during 6 months, n (%)</td>
<td>44 (33)</td>
<td>32 (53)</td>
</tr>
<tr>
<td>p-value&lt;sup&gt;a&lt;/sup&gt;</td>
<td>0.002</td>
<td></td>
</tr>
<tr>
<td>Requiring rescue therapy, n (%)</td>
<td>24 (18)</td>
<td>25 (40)</td>
</tr>
<tr>
<td>p-value&lt;sup&gt;a&lt;/sup&gt;</td>
<td>0.001</td>
<td></td>
</tr>
<tr>
<td>Patients receiving ITP therapy at baseline (n)</td>
<td>63</td>
<td>31</td>
</tr>
<tr>
<td>Patients who attempted to reduce or discontinue baseline therapy, n (%)&lt;sup&gt;b&lt;/sup&gt;</td>
<td>37 (59)</td>
<td>10 (32)</td>
</tr>
<tr>
<td>p-value&lt;sup&gt;a&lt;/sup&gt;</td>
<td>0.016</td>
<td></td>
</tr>
</tbody>
</table>

<sup>a</sup> Logistic regression model adjusted for randomisation stratification variables

<sup>b</sup> 21 out of 63 (33%) patients treated with eltrombopag who were taking an ITP medicinal product at baseline permanently discontinued all baseline ITP medicinal products.

At baseline, more than 70% of ITP patients in each treatment group reported any bleeding (WHO Grades 1-4) and more than 20% reported clinically significant bleeding (WHO Grades 2-4), respectively. The proportion of eltrombopag-treated patients with any bleeding (Grades 1-4) and clinically significant bleeding (Grades 2-4) was reduced from baseline by approximately 50% from Day 15 to the end of treatment throughout the 6-month treatment period.

TRA100773B:
The primary efficacy endpoint was the proportion of responders, defined as ITP patients who had an increase in platelet counts to ≥50 000/µl at Day 43 from a baseline of <30 000/µl; patients who withdrew prematurely due to a platelet count >200 000/µl were considered responders, those that discontinued for any other reason were considered non-responders irrespective of platelet count. A total of 114 patients with previously treated ITP were randomised 2:1 eltrombopag (n=76) to placebo (n=38).
Table 5  Efficacy results from TRA100773B

<table>
<thead>
<tr>
<th>Key primary endpoints</th>
<th>Eltrombopag N=74</th>
<th>Placebo N=38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eligible for efficacy analysis, n</td>
<td>73</td>
<td>37</td>
</tr>
<tr>
<td>Patients with platelet count ≥50 000/µl after up to 42 days of dosing (compared to a baseline count of &lt;30 000/µl), n (%)</td>
<td>43 (59)</td>
<td>6 (16)</td>
</tr>
<tr>
<td>p-value⁹</td>
<td>&lt;0.001</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Key secondary endpoints</th>
<th>Eltrombopag N=74</th>
<th>Placebo N=38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients with a Day 43 bleeding assessment, n</td>
<td>51</td>
<td>30</td>
</tr>
<tr>
<td>Bleeding (WHO Grades 1-4) n (%)</td>
<td>20 (39)</td>
<td>18 (60)</td>
</tr>
<tr>
<td>p-value⁹</td>
<td>0.029</td>
<td></td>
</tr>
</tbody>
</table>

In both RAISE and TRA100773B the response to eltrombopag relative to placebo was similar irrespective of ITP medicinal product use, splenectomy status and baseline platelet count (≤15 000/µl, >15 000/µl) at randomisation.

In RAISE and TRA100773B studies, in the subgroup of ITP patients with baseline platelet count ≤15 000/µl the median platelet counts did not reach the target level (>50 000/µl), although in both studies 43% of these patients treated with eltrombopag responded after 6 weeks of treatment. In addition, in the RAISE study, 42% of patients with baseline platelet count ≤15 000/µl treated with eltrombopag responded at the end of the 6-month treatment period. Forty-two to 60% of the eltrombopag-treated patients in the RAISE study were receiving 75 mg from Day 29 to the end of treatment.

Open-label non-controlled studies
REPEAT (TRA108057):
This open-label, repeat-dose study (3 cycles of 6 weeks of treatment, followed by 4 weeks off treatment) showed that episodic use with multiple courses of eltrombopag has demonstrated no loss of response.

EXTEND (TRA105325):
Eltrombopag was administered to 302 ITP patients in this open-label extension study, 218 patients completed 1 year, 180 completed 2 years, 107 completed 3 years, 75 completed 4 years, 34 completed 5 years and 18 completed 6 years. The median baseline platelet count was 19 000/µl prior to eltrombopag administration. Median platelet counts at 1, 2, 3, 4, 5, 6 and 7 years on study were 85 000/µl, 85 000/µl, 105 000/µl, 64 000/µl, 75 000/µl, 119 000/µl and 76 000/µl, respectively.

TAPER (CETB115J2411):
This was a single-arm phase II study including ITP patients treated with eltrombopag after first-line corticosteroid failure irrespective of time since diagnosis. A total of 105 patients were enrolled on the study and started eltrombopag treatment on 50 mg once daily (25 mg once daily for patients of East/Southeast-Asian ancestry). The dose of eltrombopag was adjusted during the treatment period based on individual platelet counts with the goal to achieve a platelet count ≥100 000/µl.

Of the 105 patients who were enrolled in the study and who received at least one dose of eltrombopag, 69 patients (65.7%) completed treatment and 36 patients (34.3%) discontinued treatment early.
Analysis of sustained response off treatment

The primary endpoint was the proportion of patients with sustained response off treatment until Month 12. Patients who reached a platelet count of ≥100 000/µl and maintained platelet counts around 100 000/µl for 2 months (no counts below 70 000/µl) were eligible for tapering off eltrombopag and treatment discontinuation. To be considered as having achieved a sustained response off treatment, a patient had to maintain platelet counts ≥30 000/µl, in the absence of bleeding events or the use of rescue therapy, both during the treatment tapering period and following discontinuation of treatment until Month 12.

The duration of tapering was individualised depending on the starting dose and the response of the patient. The tapering schedule recommended dose reductions of 25 mg every 2 weeks if the platelet counts were stable. After the daily dose was reduced to 25 mg for 2 weeks, the dose of 25 mg was then only administered on alternate days for 2 weeks until treatment discontinuation. The tapering was done in smaller decrements of 12.5 mg every second week for patients of East-/Southeast-Asian ancestry. If a relapse (defined as platelet count <30 000/µl) occurred, patients were offered a new course of eltrombopag at the appropriate starting dose.

Eighty-nine patients (84.8%) achieved a complete response (platelet count ≥100 000/µl) (Step 1, Table 6) and 65 patients (61.9%) maintained the complete response for at least 2 months with no platelet counts below 70 000/µl (Step 2, Table 6). Forty-four patients (41.9%) were able to be tapered off eltrombopag until treatment discontinuation while maintaining platelet counts ≥30 000/µl in the absence of bleeding events or the use of rescue therapy (Step 3, Table 6).

The study met the primary objective by demonstrating that eltrombopag was able to induce sustained response off treatment, in the absence of bleeding events or the use of rescue therapy, by Month 12 in 32 of the 105 enrolled patients (30.5%; p<0.0001; 95% CI: 21.9, 40.2) (Step 4, Table 6). By Month 24, 20 of the 105 enrolled patients (19.0%; 95% CI: 12.0, 27.9) maintained sustained response off treatment in the absence of bleeding events or the use of rescue therapy (Step 5, Table 6).

After tapering off and discontinuation of eltrombopag treatment, 12 patients had a loss of response, 8 of them re-started eltrombopag and 7 had a recovery response.

During the 2-year follow-up, 6 out of 105 patients (5.7%) experienced thromboembolic events, of which 3 patients (2.9%) experienced deep vein thrombosis, 1 patient (1.0%) experienced superficial vein thrombosis, 1 patient (1.0%) experienced cavernous sinus thrombosis, 1 patient (1.0%) experienced cerebrovascular accident and 1 patient (1.0%) experienced pulmonary embolism. Of the 6 patients, 4 patients experienced thromboembolic events that were reported at or greater than Grade 3, and 4 patients experienced thromboembolic event that were reported as serious. No fatal cases were reported.

Twenty out of 105 patients (19.0%) experienced mild to severe haemorrhage events on treatment before tapering started. Five out of 65 patients (7.7%) who started tapering experienced mild to moderate haemorrhage events during tapering. No severe haemorrhage event occurred during tapering. Two out of 44 patients (4.5%) who tapered off and discontinued eltrombopag treatment experienced mild to moderate haemorrhage events after treatment discontinuation until Month 12. No severe haemorrhage event occurred during this period. None of the patients who discontinued eltrombopag and entered the second year follow-up experienced haemorrhage event during the second year. Two fatal intracranial haemorrhage events were reported during the 2-year follow-up. Both events occurred on treatment, not in the context of tapering. The events were not considered to be related to study treatment.

The overall safety analysis is consistent with previously reported data and the risk-benefit assessment remained unchanged for the use of eltrombopag in patients with ITP.
### Table 6  Proportion of patients with sustained response off treatment at Month 12 and at Month 24 (full analysis set) in TAPER

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
<th>All patients N=105</th>
<th>Hypothesis testing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>n (%)</strong></td>
<td><strong>95% CI</strong></td>
</tr>
<tr>
<td>Step 1:</td>
<td>Patients who reached platelet count $\geq 100 000/\mu l$ at least once</td>
<td>89 (84.8)</td>
<td>(76.4, 91.0)</td>
</tr>
<tr>
<td>Step 2:</td>
<td>Patients who maintained stable platelet count for 2 months after reaching $100 000/\mu l$ (no counts $&lt;70 000/\mu l$)</td>
<td>65 (61.9)</td>
<td>(51.9, 71.2)</td>
</tr>
<tr>
<td>Step 3:</td>
<td>Patients who were able to be tapered off eltrombopag until treatment discontinuation, maintaining platelet count $\geq 30 000/\mu l$ in the absence of bleeding events or use of any rescue therapy</td>
<td>44 (41.9)</td>
<td>(32.3, 51.9)</td>
</tr>
<tr>
<td>Step 4:</td>
<td>Patients with sustained response off treatment until Month 12, with platelet count maintained $\geq 30 000/\mu l$ in the absence of bleeding events or use of any rescue therapy</td>
<td>32 (30.5)</td>
<td>(21.9, 40.2)</td>
</tr>
<tr>
<td>Step 5:</td>
<td>Patients with sustained response off treatment from Month 12 to Month 24, maintaining platelet count $\geq 30 000/\mu l$ in the absence of bleeding events or use of any rescue therapy</td>
<td>20 (19.0)</td>
<td>(12.0, 27.9)</td>
</tr>
</tbody>
</table>

N: The total number of patients in the treatment group. This is the denominator for percentage (%) calculation.  
n: Number of patients in the corresponding category.  
The 95% CI for the frequency distribution was computed using Clopper-Pearson exact method. Clopper-Pearson test was used for testing whether the proportion of responders was $>15$%. CI and p-values are reported.  
* Indicates statistical significance (one-sided) at the 0.05 level.

Results of response on treatment analysis by time since ITP diagnosis  
An ad-hoc analysis was conducted on the n=105 patients by time since ITP diagnosis to assess the response to eltrombopag across four different ITP categories by time since diagnosis (newly diagnosed ITP <3 months, persistent ITP 3 to <6 months, persistent ITP 6 to $\leq$12 months, and chronic ITP $>$12 months). 49% of patients (n=51) had an ITP diagnosis of <3 months, 20% (n=21) of 3 to <6 months, 17% (n=18) of 6 to $\leq$12 months and 14% (n=15) of $>$12 months.

Until the cut-off date (22-Oct-2021), patients were exposed to eltrombopag for a median (Q1-Q3) duration of 6.2 months (2.3-12.0 months). The median (Q1-Q3) platelet count at baseline was 16 000/µl (7 800-28 000/µl).

Platelet count response, defined as a platelet count $\geq 50 000/\mu l$ at least once by Week 9 without rescue therapy, was achieved in 84% (95% CI: 71% to 93%) of newly diagnosed ITP patients, 91% (95% CI: 70% to 99%) and 94% (95% CI: 73% to 100%) of persistent ITP patients (i.e. with ITP diagnosis 3 to <6 months and 6 to $\leq$12 months, respectively), and in 87% (95% CI: 60% to 98%) of chronic ITP patients.

The rate of complete response, defined as platelet count $\geq 100 000/\mu l$ at least once by Week 9 without rescue therapy, was 75% (95% CI: 60% to 86%) in newly diagnosed ITP patients, 76% (95% CI: 53% to 92%) and 72% (95% CI: 47% to 90%) in persistent ITP patients (ITP diagnosis 3 to <6 months and 6 to $\leq$12 months, respectively), and 87% (95% CI: 60% to 98%) in chronic ITP patients.

The rate of durable response, defined as a platelet count $\geq 50 000/\mu l$ for at least 6 out of 8 consecutive assessments without rescue therapy during the first 6 months on study, was 71% (95% CI: 56% to 83%) in newly diagnosed ITP patients, 81% (95% CI: 58% to 95%) and 72% (95% CI: 47% to 90.3%) in persistent ITP patients (ITP diagnosis 3 to <6 months and 6 to $\leq$12 months, respectively), and 80% (95% CI: 52% to 96%) in chronic ITP patients.
When assessed with the WHO Bleeding Scale, the proportion of newly diagnosed and persistent ITP patients without bleeding at Week 4 ranged from 88% to 95% compared to 37% to 57% at baseline. For chronic ITP patients it was 93% compared to 73% at baseline.

The safety of eltrombopag was consistent across all ITP categories and in line with its known safety profile.

Clinical studies comparing eltrombopag to other treatment options (e.g. splenectomy) have not been conducted. The long-term safety of eltrombopag should be considered prior to starting therapy.

**Paediatric population (aged 1 to 17 years)**
The safety and efficacy of eltrombopag in pediatric patients have been investigated two studies.

**TRA115450 (PETIT2):**
The primary endpoint was a sustained response, defined as the proportion of patients receiving eltrombopag, compared to placebo, achieving platelet counts $\geq 50,000/\mu l$ for at least 6 out of 8 weeks (in the absence of rescue therapy), between weeks 5 to 12 during the double-blind randomised period. Patients were diagnosed with chronic ITP for at least 1 year and were refractory or relapsed to at least one prior ITP therapy or unable to continue other ITP treatments for a medical reason and had platelet count $<30,000/\mu l$. Ninety-two patients were randomised by three age cohort strata (2:1) to eltrombopag (n=63) or placebo (n=29). The dose of eltrombopag could be adjusted based on individual platelet counts.

Overall, a significantly greater proportion of eltrombopag patients (40%) compared with placebo patients (3%) achieved the primary endpoint (Odds Ratio: 18.0 [95% CI: 2.3, 140.9] $p <0.001$) which was similar across the three age cohorts (Table 7).

<table>
<thead>
<tr>
<th>Table 7</th>
<th>Sustained platelet response rates by age cohort in paediatric patients with chronic ITP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Eltrombopag n/N (%) [95% CI]</td>
</tr>
<tr>
<td>Cohort 1 (12 to 17 years)</td>
<td>9/23 (39%) [20%, 61%]</td>
</tr>
<tr>
<td>Cohort 2 (6 to 11 years)</td>
<td>11/26 (42%) [23%, 63%]</td>
</tr>
<tr>
<td>Cohort 3 (1 to 5 years)</td>
<td>5/14 (36%) [13%, 65%]</td>
</tr>
</tbody>
</table>

Statistically fewer eltrombopag patients required rescue treatment during the randomised period compared to placebo patients (19% [12/63] vs. 24% [7/29], $p=0.032$).

At baseline, 71% of patients in the eltrombopag group and 69% in the placebo group reported any bleeding (WHO Grades 1-4). At Week 12, the proportion of eltrombopag patients reporting any bleeding was decreased to half of baseline (36%). In comparison, at Week 12, 55% of placebo patients reported any bleeding.

Patients were permitted to reduce or discontinue baseline ITP therapy only during the open-label phase of the study and 53% (8/15) of patients were able to reduce (n=1) or discontinue (n=7) baseline ITP therapy, mainly corticosteroids, without needing rescue therapy.
The primary endpoint was the proportion of patients achieving platelet counts ≥50 000/µl at least once between weeks 1 and 6 of the randomised period. Patients were diagnosed with ITP for at least 6 months and were refractory or relapsed to at least one prior ITP therapy with a platelet count <30 000/µl (n=67). During the randomised period of the study, patients were randomised by three age cohort strata (2:1) to eltrombopag (n=45) or placebo (n=22). The dose of eltrombopag could be adjusted based on individual platelet counts.

Overall, a significantly greater proportion of eltrombopag patients (62%) compared with placebo patients (32%) met the primary endpoint (Odds Ratio: 4.3 [95% CI: 1.4, 13.3] p=0.011).

Sustained response was seen in 50% of the initial responders during 20 out of 24 weeks in the PETIT 2 study and 15 out of 24 weeks in the PETIT Study.

**Chronic hepatitis C associated thrombocytopenia studies**

The efficacy and safety of eltrombopag for the treatment of thrombocytopenia in patients with HCV infection were evaluated in two randomised, double-blind, placebo-controlled studies. ENABLE 1 utilised peginterferon alfa-2a plus ribavirin for antiviral treatment and ENABLE 2 utilised peginterferon alfa-2b plus ribavirin. Patients did not receive direct acting antiviral agents. In both studies, patients with a platelet count of <75 000/µl were enrolled and stratified by platelet count (<50 000/µl and ≥50 000/µl to <75 000/µl), screening HCV RNA (<800 000 IU/ml and ≥800 000 IU/ml), and HCV genotype (genotype 2/3, and genotype 1/4/6).

Baseline disease characteristics were similar in both studies and were consistent with compensated cirrhotic HCV patient population. The majority of patients were HCV genotype 1 (64%) and had bridging fibrosis/cirrhosis. Thirty-one percent of patients had been treated with prior HCV therapies, primarily pegylated interferon plus ribavirin. The median baseline platelet count was 59 500/µl in both treatment groups: 0.8%, 28% and 72% of the patients recruited had platelet counts <20 000/µl, <50 000/µl and ≥50 000/µl respectively.

The studies consisted of two phases – a pre-antiviral treatment phase and an antiviral treatment phase. In the pre-antiviral treatment phase, patients received open-label eltrombopag to increase the platelet count to ≥90 000/µl for ENABLE 1 and ≥100 000/µl for ENABLE 2. The median time to achieve the target platelet count ≥90 000/µl (ENABLE 1) or ≥100 000/µl (ENABLE 2) was 2 weeks.

The primary efficacy endpoint for both studies was sustained virologic response (SVR), defined as the percentage of patients with no detectable HCV-RNA at 24 weeks after completion of the planned treatment period.

In both HCV studies, a significantly greater proportion of patients treated with eltrombopag (n=201, 21%) achieved SVR compared to those treated with placebo (n=65, 13%) (see Table 8). The improvement in the proportion of patients who achieved SVR was consistent across all subgroups in the randomisation strata (baseline platelet counts (<50 000 vs. ≥50 000), viral load (<800 000 IU/ml vs. ≥800 000 IU/ml) and genotype (2/3 vs. 1/4/6)).
Table 8  Virologic response in HCV patients in ENABLE 1 and ENABLE 2

<table>
<thead>
<tr>
<th>Patients achieving target platelet counts and initiating antiviral therapy</th>
<th>Pooled data</th>
<th>ENABLE 1(^a)</th>
<th>ENABLE 2(^b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eltrombopag</td>
<td>Placebo</td>
<td>Eltrombopag</td>
<td>Placebo</td>
</tr>
<tr>
<td>Total number of patients entering antiviral treatment phase</td>
<td>n=956</td>
<td>n=485</td>
<td>n=450</td>
</tr>
<tr>
<td>Overall SVR (^d)</td>
<td>21</td>
<td>13</td>
<td>23</td>
</tr>
<tr>
<td>HCV RNA Genotype</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Genotype 2/3</td>
<td>35</td>
<td>25</td>
<td>35</td>
</tr>
<tr>
<td>Genotype 1/4/6 (^e)</td>
<td>15</td>
<td>8</td>
<td>18</td>
</tr>
<tr>
<td>Albumin levels (^f)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≤35g/l</td>
<td>11</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>&gt;35g/l</td>
<td>25</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>MELD score (^f)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>≥10</td>
<td>18</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>&lt;10</td>
<td>23</td>
<td>17</td>
<td></td>
</tr>
</tbody>
</table>

\(a\) Eltrombopag given in combination with peginterferon alfa-2a (180 μg once weekly for 48 weeks for genotypes 1/4/6; 24 weeks for genotype 2/3) plus ribavirin (800 to 1 200 mg daily in 2 divided doses orally)

\(b\) Eltrombopag given in combination with peginterferon alfa-2b (1.5 μg/kg once weekly for 48 weeks for genotype 1/4/6; 24 weeks for genotype 2/3) plus ribavirin (800 to 1 400 mg orally in 2 divided doses)

\(c\) Target platelet count was ≥90 000/µl for ENABLE 1 and ≥100 000/µl for ENABLE 2. For ENABLE 1, 682 patients were randomised to the antiviral treatment phase; however 2 patients then withdrew consent prior to receiving antiviral therapy.

\(d\) \(p\)-value <0.05 for eltrombopag versus placebo

\(e\) 64% patients participating in ENABLE 1 and ENABLE 2 were genotype 1

\(f\) Post-hoc analyses

Other secondary findings of the studies included the following: significantly fewer patients treated with eltrombopag prematurely discontinued antiviral therapy compared to placebo (45% vs. 60%, \(p=0.0001\)). A greater proportion of patients on eltrombopag did not require any antiviral dose reduction as compared to placebo (45% vs. 27%). Eltrombopag treatment delayed and reduced the number of peginterferon dose reductions.

**Severe aplastic anaemia**

Eltrombopag was studied in a single-arm, single-centre open-label study in 43 patients with severe aplastic anaemia with refractory thrombocytopenia following at least one prior immunosuppressive therapy (IST) and who had a platelet count ≤30 000/µl.

The majority of patients, 33 (77%), were considered to have ‘primary refractory disease’, defined as having no prior adequate response to IST in any lineage. The remaining 10 patients had insufficient platelet response to prior therapies. All 10 had received at least 2 prior IST regimens and 50% had received at least 3 prior IST regimens. Patients with diagnosis of Fanconi anaemia, infection not responding to appropriate therapy, PNH clone size in neutrophils of ≥50%, where excluded from participation.
At baseline the median platelet count was 20,000/µl, haemoglobin was 8.4 g/dl, ANC was 0.58 x 10^9/l and absolute reticulocyte count was 24.3 x 10^9/l. Eighty-six percent of patients were RBC transfusion dependent, and 91% were platelet transfusion dependent. The majority of patients (84%) had received at least 2 prior immunosuppressive therapies. Three patients had cytogenetic abnormalities at baseline.

The primary endpoint was haematological response assessed after 12 weeks of eltrombopag treatment. Haematological response was defined as meeting one or more of the following criteria: 1) platelet count increases to 20,000/µl above baseline or stable platelet counts with transfusion independence for a minimum of 8 weeks; 2) haemoglobin increase by >1.5g/dl, or a reduction in ≥4 units of red blood cell (RBC) transfusions for 8 consecutive weeks; 3) absolute neutrophil count (ANC) increase of 100% or an ANC increase >0.5 x 10^9/l.

The haematological response rate was 40% (17/43 patients; 95% CI 25, 56), the majority were unilineage responses (13/17, 76%) whilst there were 3 bilineage and 1 trilineage responses at week 12. Ertomobopag was discontinued after 16 weeks if no haematological response or transfusion independence was observed. Patients who responded continued therapy in an extension phase of the trial. Nine of these patients achieved a multi-lineage response, 4 of the 9 remain on treatment and 5 tapered off treatment with eltrombopag and maintained the response (median follow up: 20.6 months, range: 5.7 to 22.5 months). The remaining 5 patients discontinued treatment, three due to relapse at the month 3 extension visit.

During treatment with eltrombopag 59% (23/39) became platelet transfusion independent (28 days without platelet transfusion) and 27% (10/37) became RBC transfusion independent (56 days without RBC transfusion). The longest platelet transfusion-free period for non-responders was 27 days (median). The longest platelet transfusion-free period for responders was 287 days (median). The longest RBC transfusion-free period for non-responders was 29 days (median). The longest RBC transfusion-free period for responders was 266 days (median).

Over 50% of responders who were transfusion-dependent at baseline, had >80% reduction in both platelet and RBC transfusion requirements compared to baseline.

Preliminary results from a supportive study (Study ELT116826), an ongoing non-randomised, phase II, single-arm, open-label study in refractory SAA patients, showed consistent results. Data are limited to 21 out of the planned 60 patients with haematological responses reported by 52% of patients at 6 months. Multilineage responses were reported by 45% of patients.

5.2 Pharmacokinetic properties

Pharmacokinetics

The plasma eltrombopag concentration-time data collected in 88 patients with ITP in studies TRA100773A and TRA100773B were combined with data from 111 healthy adult subjects in a population PK analysis. Plasma eltrombopag AUC(0-τ) and C_max estimates for ITP patients are presented (Table 9).

<table>
<thead>
<tr>
<th>Ertomobopag dose, once daily</th>
<th>N</th>
<th>AUC(0-τ) a, µg.h/ml</th>
<th>C_max a, µg/ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 mg</td>
<td>28</td>
<td>47 (39, 58)</td>
<td>3.78 (3.18, 4.49)</td>
</tr>
<tr>
<td>50 mg</td>
<td>34</td>
<td>108 (88, 134)</td>
<td>8.01 (6.73, 9.53)</td>
</tr>
<tr>
<td>75 mg</td>
<td>26</td>
<td>168 (143, 198)</td>
<td>12.7 (11.0, 14.5)</td>
</tr>
</tbody>
</table>

a AUC(0-τ) and C_max based on population PK post-hoc estimates.
Plasma eltrombopag concentration-time data collected in 590 patients with HCV enrolled in phase III studies TPL103922/ENABLE 1 and TPL108390/ENABLE 2 were combined with data from patients with HCV enrolled in the phase II study TPL102357 and healthy adult subjects in a population PK analysis. Plasma eltrombopag $C_{\text{max}}$ and $\text{AUC}_{(0-\tau)}$ estimates for patients with HCV enrolled in the phase III studies are presented for each dose studied in Table 10.

<table>
<thead>
<tr>
<th>Eltrombopag dose (once daily)</th>
<th>N</th>
<th>$\text{AUC}_{(0-\tau)}$ ($\mu\text{g.h/ml}$)</th>
<th>$C_{\text{max}}$ ($\mu\text{g/ml}$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25 mg</td>
<td>330</td>
<td>118 (109, 128)</td>
<td>6.40 (5.97, 6.86)</td>
</tr>
<tr>
<td>50 mg</td>
<td>119</td>
<td>166 (143, 192)</td>
<td>9.08 (7.96, 10.35)</td>
</tr>
<tr>
<td>75 mg</td>
<td>45</td>
<td>301 (250, 363)</td>
<td>16.71 (14.26, 19.58)</td>
</tr>
<tr>
<td>100 mg</td>
<td>96</td>
<td>354 (304, 411)</td>
<td>19.19 (16.81, 21.91)</td>
</tr>
</tbody>
</table>

Data presented as geometric mean (95% CI). $\text{AUC}_{(0-\tau)}$ and $C_{\text{max}}$ based on population PK post-hoc estimates at the highest dose in the data for each patient.

Absorption and bioavailability

Eltrombopag is absorbed with a peak concentration occurring 2 to 6 hours after oral administration. Administration of eltrombopag concomitantly with antacids and other products containing polyvalent cations such as dairy products and mineral supplements significantly reduces eltrombopag exposure (see section 4.2). In a relative bioavailability study in adults, the eltrombopag powder for oral suspension delivered 22% higher plasma $\text{AUC}_{(0-\infty)}$ than the film-coated tablet formulation. The absolute oral bioavailability of eltrombopag after administration to humans has not been established. Based on urinary excretion and metabolites eliminated in faeces, the oral absorption of drug-related material following administration of a single 75 mg eltrombopag solution dose was estimated to be at least 52%.

Distribution

Eltrombopag is highly bound to human plasma proteins (>99.9%), predominantly to albumin. Eltrombopag is a substrate for BCRP, but is not a substrate for P-glycoprotein or OATP1B1.

Biotransformation

Eltrombopag is primarily metabolised through cleavage, oxidation and conjugation with glucuronic acid, glutathione, or cysteine. In a human radiolabel study, eltrombopag accounted for approximately 64% of plasma radiocarbon $\text{AUC}_{0-\infty}$. Minor metabolites due to glucuronidation and oxidation were also detected. In vitro studies suggest that CYP1A2 and CYP2C8 are responsible for oxidative metabolism of eltrombopag. Uridine diphosphogluconaryl transferase UGT1A1 and UGT1A3 are responsible for glucuronidation, and bacteria in the lower gastrointestinal tract may be responsible for the cleavage pathway.
Elimination

Absorbed eltrombopag is extensively metabolised. The predominant route of eltrombopag excretion is via faeces (59%) with 31% of the dose found in the urine as metabolites. Unchanged parent compound (eltrombopag) is not detected in urine. Unchanged eltrombopag excreted in faeces accounts for approximately 20% of the dose. The plasma elimination half-life of eltrombopag is approximately 21-32 hours.

Pharmacokinetic interactions

Based on a human study with radiolabelled eltrombopag, glucuronidation plays a minor role in the metabolism of eltrombopag. Human liver microsome studies identified UGT1A1 and UGT1A3 as the enzymes responsible for eltrombopag glucuronidation. Eltrombopag was an inhibitor of a number of UGT enzymes in vitro. Clinically significant drug interactions involving glucuronidation are not anticipated due to limited contribution of individual UGT enzymes in the glucuronidation of eltrombopag.

Approximately 21% of an eltrombopag dose could undergo oxidative metabolism. Human liver microsome studies identified CYP1A2 and CYP2C8 as the enzymes responsible for eltrombopag oxidation. Eltrombopag does not inhibit or induce CYP enzymes based on in vitro and in vivo data (see section 4.5).

In vitro studies demonstrate that eltrombopag is an inhibitor of the OATP1B1 transporter and an inhibitor of the BCRP transporter and eltrombopag increased exposure of the OATP1B1 and BCRP substrate rosuvastatin in a clinical drug interaction study (see section 4.5). In clinical studies with eltrombopag, a dose reduction of statins by 50% was recommended.

Eltrombopag chelates with polyvalent cations such as iron, calcium, magnesium, aluminium, selenium and zinc (see sections 4.2 and 4.5).

In vitro studies demonstrated that eltrombopag is not a substrate for the organic anion transporter polypeptide, OATP1B1, but is an inhibitor of this transporter (IC₅₀ value of 2.7 μM [1.2 μg/ml]). In vitro studies also demonstrated that eltrombopag is a breast cancer resistance protein (BCRP) substrate and inhibitor (IC₅₀ value of 2.7 μM [1.2 μg/ml]).

Special patient populations

Renal impairment

The pharmacokinetics of eltrombopag have been studied after administration of eltrombopag to adult patients with renal impairment. Following administration of a single 50 mg dose, the AUC₀-∞ of eltrombopag was 32% to 36% lower in patients with mild to moderate renal impairment, and 60% lower in patients with severe renal impairment compared with healthy volunteers. There was substantial variability and significant overlap in exposures between patients with renal impairment and healthy volunteers. Unbound eltrombopag (active) concentrations for this highly protein-bound medicinal product were not measured. Patients with impaired renal function should use eltrombopag with caution and close monitoring, for example by testing serum creatinine and/or urine analysis (see section 4.2). The efficacy and safety of eltrombopag have not been established in patients with both moderate to severe renal impairment and hepatic impairment.
Hepatic impairment

The pharmacokinetics of eltrombopag have been studied after administration of eltrombopag to adult patients with hepatic impairment. Following the administration of a single 50 mg dose, the AUC_{0-∞} of eltrombopag was 41% higher in patients with mild hepatic impairment and 80% to 93% higher in patients with moderate to severe hepatic impairment compared with healthy volunteers. There was substantial variability and significant overlap in exposures between patients with hepatic impairment and healthy volunteers. Unbound eltrombopag (active) concentrations for this highly protein-bound medicinal product were not measured.

The influence of hepatic impairment on the pharmacokinetics of eltrombopag following repeat administration was evaluated using a population pharmacokinetic analysis in 28 healthy adults and 714 patients with hepatic impairment (673 patients with HCV and 41 patients with chronic liver disease of other aetiology). Of the 714 patients, 642 were with mild hepatic impairment, 67 with moderate hepatic impairment, and 2 with severe hepatic impairment. Compared to healthy volunteers, patients with mild hepatic impairment had approximately 111% (95% CI: 45% to 283%) higher plasma eltrombopag AUC_{(0-7)} values and patients with moderate hepatic impairment had approximately 183% (95% CI: 90% to 459%) higher plasma eltrombopag AUC_{(0-7)} values.

Therefore, eltrombopag should not be used in ITP patients with hepatic impairment (Child-Pugh score ≥5) unless the expected benefit outweighs the identified risk of portal venous thrombosis (see sections 4.2 and 4.4). For patients with HCV initiate eltrombopag at a dose of 25 mg once daily (see section 4.2).

Race

The influence of East-Asian ethnicity on the pharmacokinetics of eltrombopag was evaluated using a population pharmacokinetic analysis in 111 healthy adults (31 East-Asians) and 88 patients with ITP (18 East-Asians). Based on estimates from the population pharmacokinetic analysis, East-Asian ITP patients had approximately 49% higher plasma eltrombopag AUC_{(0-7)} values as compared to non-East-Asian patients who were predominantly Caucasian (see section 4.2).

The influence of East-/Southeast-Asian ethnicity on the pharmacokinetics of eltrombopag was evaluated using a population pharmacokinetic analysis in 635 patients with HCV (145 East-Asians and 69 Southeast-Asians). Based on estimates from the population pharmacokinetic analysis, East-/Southeast-Asian patients had approximately 55% higher plasma eltrombopag AUC_{(0-7)} values as compared to patients of other races who were predominantly Caucasian (see section 4.2).
**Gender**

The influence of gender on the pharmacokinetics of eltrombopag was evaluated using a population pharmacokinetic analysis in 111 healthy adults (14 females) and 88 patients with ITP (57 females). Based on estimates from the population pharmacokinetic analysis, female ITP patients had approximately 23% higher plasma eltrombopag AUC \(_{(0-\tau)}\) as compared to male patients, without adjustment for body weight differences.

The influence of gender on eltrombopag pharmacokinetics was evaluated using population pharmacokinetics analysis in 635 patients with HCV (260 females). Based on model estimate, female HCV patient had approximately 41% higher plasma eltrombopag AUC \(_{(0-\tau)}\) as compared to male patients.

**Age**

The influence of age on eltrombopag pharmacokinetics was evaluated using population pharmacokinetics analysis in 28 healthy subjects, 673 patients with HCV, and 41 patients with chronic liver disease of other aetiology ranging from 19 to 74 years old. There are no PK data on the use of eltrombopag in patients ≥75 years. Based on model estimate, elderly (≥65 years) patients had approximately 41% higher plasma eltrombopag AUC \(_{(0-\tau)}\) as compared to younger patients (see section 4.2).

**Paediatric Population (aged 1 to 17 years)**

The pharmacokinetics of eltrombopag have been evaluated in 168 paediatric ITP patients dosed once daily in two studies, TRA106062/PETIT and TRA115450/PETIT-2. Plasma eltrombopag apparent clearance following oral administration (CL/F) increased with increasing body weight. The effects of race and sex on plasma eltrombopag CL/F estimates were consistent between paediatric and adult patients. East-/Southeast-Asian paediatric ITP patients had approximately 43% higher plasma eltrombopag AUC \(_{(0-\tau)}\) values as compared to non-Asian patients. Female paediatric ITP patients had approximately 25% higher plasma eltrombopag AUC \(_{(0-\tau)}\) values as compared to male patients.

The pharmacokinetic parameters of eltrombopag in paediatric patients with ITP are shown in Table 11.

<table>
<thead>
<tr>
<th>Table 11</th>
<th>Geometric mean (95% CI) steady-state plasma eltrombopag pharmacokinetic parameters in paediatric patients with ITP (50 mg once daily dosing regimen)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>(C_{\text{max}}) ((\mu g/ml))</td>
</tr>
<tr>
<td>12 to 17 years (n=62)</td>
<td>6.80 (6.17, 7.50)</td>
</tr>
<tr>
<td>6 to 11 years (n=68)</td>
<td>10.3 (9.42, 11.2)</td>
</tr>
<tr>
<td>1 to 5 years (n=38)</td>
<td>11.6 (10.4, 12.9)</td>
</tr>
</tbody>
</table>

Data presented as geometric mean (95% CI). \(\text{AUC}_{(0-\tau)}\) and \(C_{\text{max}}\) based on population PK post-hoc estimates.
5.3 Preclinical safety data

Safety pharmacology and repeat-dose toxicity

Eltrombopag does not stimulate platelet production in mice, rats or dogs because of unique TPO receptor specificity. Therefore, data from these animals do not fully model potential adverse effects related to the pharmacology of eltrombopag in humans, including the reproduction and carcinogenicity studies.

Treatment-related cataracts were detected in rodents and were dose and time-dependent. At ≥6 times the human clinical exposure in adult ITP patients at 75 mg/day and 3 times the human clinical exposure in adult HCV patients at 100 mg/day, based on AUC, cataracts were observed in mice after 6 weeks and rats after 28 weeks of dosing. At ≥4 times the human clinical exposure in ITP patients at 75 mg/day and 2 times the human exposure in HCV patients at 100 mg/day, based on AUC, cataracts were observed in mice after 13 weeks and in rats after 39 weeks of dosing. At non-tolerated doses in pre-weaning juvenile rats dosed from days 4-32 (approximately equating to a 2-year-old human at the end of the dosing period), ocular opacities were observed (histology not performed) at 9 times the maximum human clinical exposure in paediatric ITP patients at 75 mg/day, based on AUC. However, cataracts were not observed in juvenile rats given tolerated doses at 5 times the human clinical exposure in paediatric ITP patients, based on AUC. Cataracts have not been observed in adult dogs after 52 weeks of dosing at 2 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and equivalent to the human clinical exposure in HCV patients at 100 mg/day, based on AUC.

Renal tubular toxicity was observed in studies of up to 14 days duration in mice and rats at exposures that were generally associated with morbidity and mortality. Tubular toxicity was also observed in a 2-year oral carcinogenicity study in mice at doses of 25, 75 and 150 mg/kg/day. Effects were less severe at lower doses and were characterised by a spectrum of regenerative changes. The exposure at the lowest dose was 1.2 or 0.8 times the human clinical exposure based on AUC in adult or paediatric ITP patients at 75 mg/day and 0.6 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC. Renal effects were not observed in rats after 28 weeks or in dogs after 52 weeks at exposures 4 and 2 times the human clinical exposure in adult ITP patients and 3 and 2 times the human clinical exposure in paediatric ITP patients at 75 mg/day and 2 times and equivalent to the human clinical exposure in HCV patients at 100 mg/day, based on AUC.

Hepatocyte degeneration and/or necrosis, often accompanied by increased serum liver enzymes, was observed in mice, rats and dogs at doses that were associated with morbidity and mortality or were poorly tolerated. No hepatic effects were observed after chronic dosing in rats (28 weeks) and in dogs (52 weeks) at 4 or 2 times the human clinical exposure in adult ITP and 3 or 2 times the human clinical exposure in paediatric ITP patients at 75 mg/day and 2 times and equivalent to the human clinical exposure in HCV patients at 100 mg/day, based on AUC.

At poorly tolerated doses in rats and dogs (>10 or 7 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 4 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC), decreased reticulocyte counts and regenerative bone marrow erythroid hyperplasia (rats only) were observed in short-term studies. There were no effects of note on red cell mass or reticulocyte counts after dosing for up to 28 weeks in rats, 52 weeks in dogs and 2 years in mice or rats at maximally tolerated doses which were 2 to 4 times human clinical exposure in adult or paediatric ITP patients at 75 mg/day and ≤2 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC.

Endosteal hyperostosis was observed in a 28-week toxicity study in rats at a non-tolerated dose of 60 mg/kg/day (6 times or 4 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 3 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC). There were no bone changes observed in mice or rats after lifetime exposure (2 years) at 4 times or 2 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 2 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC.
Carcinogenicity and mutagenicity

Eltrombopag was not carcinogenic in mice at doses up to 75 mg/kg/day or in rats at doses up to 40 mg/kg/day (exposures up to 4 or 2 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 2 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC). Eltrombopag was not mutagenic or clastogenic in a bacterial mutation assay or in two in vivo assays in rats (micronucleus and unscheduled DNA synthesis, 10 times or 8 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 7 times the human clinical exposure in HCV patients at 100 mg/day, based on Cmax). In the in vitro mouse lymphoma assay, eltrombopag was marginally positive (<3-fold increase in mutation frequency). These in vitro and in vivo findings suggest that eltrombopag does not pose a genotoxic risk to humans.

Reproductive toxicity

Eltrombopag did not affect female fertility, early embryonic development or embryofetal development in rats at doses up to 20 mg/kg/day (2 times the human clinical exposure in adult or adolescent (12-17 years) ITP patients at 75 mg/day and equivalent to the human clinical exposure in HCV patients at 100 mg/day, based on AUC). Also there was no effect on embryofetal development in rabbits at doses up to 150 mg/kg/day, the highest dose tested (0.3 to 0.5 times the human clinical exposure in ITP patients at 75 mg/day and HCV patients at 100 mg/day, based on AUC). However, at a maternally toxic dose of 60 mg/kg/day (6 times the human clinical exposure in ITP patients at 75 mg/day and 3 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC) in rats, eltrombopag treatment was associated with embryo lethality (increased pre- and post-implantation loss), reduced foetal body weight and gravid uterine weight in the female fertility study and a low incidence of cervical ribs and reduced foetal body weight in the embryofetal development study. Eltrombopag should be used during pregnancy only if the expected benefit justifies the potential risk to the foetus (see section 4.6). Eltrombopag did not affect male fertility in rats at doses up to 40 mg/kg/day, the highest dose tested (3 times the human clinical exposure in ITP patients at 75 mg/day and 2 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC). In the pre- and post-natal development study in rats, there were no undesirable effects on pregnancy, parturition or lactation of F0 female rats at maternally non-toxic doses (10 and 20 mg/kg/day) and no effects on the growth, development, neurobehavioural or reproductive function of the offspring (F1). Eltrombopag was detected in the plasma of all F1 rat pups for the entire 22 hour sampling period following administration of medicinal product to the F0 dams, suggesting that rat pup exposure to eltrombopag was likely via lactation.

Phototoxicity

In vitro studies with eltrombopag suggest a potential phototoxicity risk; however, in rodents there was no evidence of cutaneous phototoxicity (10 or 7 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 5 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC) or ocular phototoxicity (≥4 times the human clinical exposure in adult or paediatric ITP patients at 75 mg/day and 3 times the human clinical exposure in HCV patients at 100 mg/day, based on AUC). Furthermore, a clinical pharmacology study in 36 subjects showed no evidence that photosensitivity was increased following administration of eltrombopag 75 mg. This was measured by delayed phototoxic index. Nevertheless, a potential risk of photoallergy cannot be ruled out since no specific preclinical study could be performed.

Juvenile animal studies

At non-tolerated doses in pre-weaning rats, ocular opacities were observed. At tolerated doses, no ocular opacities were observed (see above subsection ‘Safety pharmacology and repeat-dose toxicity’). In conclusion, taking into account the exposure margins based on AUC, a risk of eltrombopag-related cataracts in paediatric patients cannot be excluded. There are no findings in juvenile rats to suggest a greater risk of toxicity with eltrombopag treatment in paediatric vs. adult ITP patients.
6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Mannitol (E421)
Sucralose
Xanthan gum

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

2 years.

Following reconstitution, the medicinal product should be administered immediately but may be stored for a maximum period of 30 minutes.

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

For storage conditions after reconstitution of the medicinal product, see section 6.3.

6.5 Nature and contents of container

Heat-sealed foil laminate sachets. The laminate material is comprised of polyester (PET) / orientated polyamide (OPA) / 9 µm aluminium foil (AL) / low density polyethylene heat seal layer (LDPE). The product contact material is the polyethylene heat seal layer. The sachets are co-packaged in a kit with a 40 ml HDPE mixing bottle, and 30 single-use 20 ml oral dosing syringes (polypropylene/silicon rubber) with 1 ml graduations. In addition, a screw cap (ethylene vinyl acetate / LDPE) with syringe-port capability is provided.

Pack size of 30 sachets.

6.6 Special precautions for disposal

Instructions for use

Avoid direct contact with the medicine. Wash any exposed area immediately with soap and water.

Preparation and administration of the powder for oral suspension:

- Administer the oral suspension immediately after preparation. Discard suspension if not administered within 30 minutes after preparation.
- Prepare the suspension with water only.
- Add 20 ml of water and the contents of the prescribed number of sachets (depending on the recommended dose) to the provided mixing bottle and mix gently.
- Give the entire contents of the bottle to the patient using one of the accompanying oral syringes.
- IMPORTANT: Because some medicine will remain in the mixing bottle, complete the following steps.
- Add 10 ml of water to the mixing bottle and mix gently.
- Give the entire contents of the bottle to the patient using the same oral syringe.
Cleaning of the mixing equipment:
- Discard the used oral syringe.
- Rinse the mixing bottle and lid, under running water. (The mixing bottle may become stained from the medicine. This is normal.)
- Let all the equipment dry in the air.
- Wash your hands with soap and water.

Do not re-use the oral dosing syringe. A new single-use oral dosing syringe should be used to prepare each dose of Revolade for oral suspension.

For more details on preparation and administration of the suspension, see Instructions for Use in the package leaflet.

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

7. MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/10/612/013

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 11 March 2010
Date of latest renewal: 15 January 2015

10. DATE OF REVISION OF THE TEXT

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

A. 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 AND EFFECTIVE USE OF THE MEDICINAL PRODUCT
A. MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturers responsible for batch release

Revolade 12.5 mg, 25 mg, 50 mg and 75 mg film-coated tablets:

Lek d.d
Verovskova Ulica 57
Ljubljana 1526
Slovenia

Novartis Pharmaceutical Manufacturing LLC
Verovskova Ulica 57
Ljubljana 1000
Slovenia

Novartis Farmacéutica SA
Gran Via de les Corts Catalanes, 764
08013 Barcelona
Spain

Novartis Pharma GmbH
Roonstraße 25
D-90429 Nuremberg
Germany

Glaxo Wellcome S.A.
Avenida de Extremadura 3
09400 Aranda de Duero
Burgos
Spain

Revolade 25 mg powder for oral suspension:

Lek d.d
Verovskova Ulica 57
Ljubljana 1526
Slovenia

Novartis Pharmaceutical Manufacturing LLC
Verovskova Ulica 57
Ljubljana 1000
Slovenia

Novartis Pharma GmbH
Roonstraße 25
D-90429 Nuremberg
Germany

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to restricted medical prescription. (see Annex I: Summary of Product Characteristics, section 4.2).
C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORIZATION

- Periodic safety update reports (PSURs)

The requirements for submission of PSURs 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 marketing authorisation holder (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 LEAFLET
A. LABELLING
PARTICULARS TO APPEAR ON THE OUTER PACKAGING
CARTON OF 12.5 mg – 14, 28, 84 (3 PACKS of 28) TABLETS

1. NAME OF THE MEDICINAL PRODUCT
Revolade 12.5 mg film-coated tablets
eltrombopag

2. STATEMENT OF ACTIVE SUBSTANCE(S)
Each film-coated tablet contains eltrombopag olamine equivalent to 12.5 mg eltrombopag.

3. LIST OF EXCIPIENTS

4. PHARMACEUTICAL FORM AND CONTENTS
14 film-coated tablets
28 film-coated tablets
Multipack containing 84 (3 packs of 28) film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION
Read the package leaflet before use. Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE REACH AND SIGHT OF CHILDREN
Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE
EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
11. **NAME AND ADDRESS OF THE MARKETING AUTHORIZATION HOLDER**

   Novartis Europharm Limited  
   Vista Building  
   Elm Park, Merrion Road  
   Dublin 4  
   Ireland

12. **MARKETING AUTHORIZATION NUMBER(S)**

   EU/1/10/612/010 (14 film-coated tablets)  
   EU/1/10/612/011 (28 film-coated tablets)  
   EU/1/10/612/012 84 film-coated tablets (3 packs of 28)

13. **BATCH NUMBER**

   Lot

14. **GENERAL CLASSIFICATION FOR SUPPLY**

15. **INSTRUCTIONS ON USE**

16. **INFORMATION IN BRAILLE**

   revolade 12.5 mg

17. **UNIQUE IDENTIFIER – 2D BARCODE**

   2D barcode carrying the unique identifier included.

18. **UNIQUE IDENTIFIER - HUMAN READABLE DATA**

   PC  
   SN  
   NN
## PARTICULARS TO APPEAR ON INTERMEDIATE CARTON

Multipacks of 84 (3 packs of 28 film-coated tablets) – without blue box – 12.5 mg film-coated tablets

---

1. **NAME OF THE MEDICINAL PRODUCT**

Revolade 12.5 mg film-coated tablets

eltrombopag

---

2. **STATEMENT OF ACTIVE SUBSTANCE(S)**

Each film-coated tablet contains eltrombopag olamine equivalent to 12.5 mg eltrombopag.

---

3. **LIST OF EXCIPIENTS**

---

4. **PHARMACEUTICAL FORM AND CONTENTS**

28 film-coated tablets. Component of a multipack, can’t be sold separately.

---

5. **METHOD AND ROUTE(S) OF ADMINISTRATION**

Read the package leaflet before use. Oral use.

---

6. **SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE REACH AND SIGHT OF CHILDREN**

Keep out of the sight and reach of children.

---

7. **OTHER SPECIAL WARNING(S), IF NECESSARY**

---

8. **EXPIRY DATE**

EXP

---

9. **SPECIAL STORAGE CONDITIONS**

---

10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**

---
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/10/612/012

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

revolade 12.5 mg
**MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS**

**Blister**

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<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>1. NAME OF THE MEDICINAL PRODUCT</strong></td>
<td></td>
</tr>
</tbody>
</table>
Revolade 12.5 mg film-coated tablets  
eltrombopag |
| **2. NAME OF THE MARKETING AUTHORISATION HOLDER** |  
Novartis Europharm Limited |
| **3. EXPIRY DATE** |  
EXP |
| **4. BATCH NUMBER** |  
Lot |
| **5. OTHER** |  |
1. NAME OF THE MEDICINAL PRODUCT

Revolade 25 mg film-coated tablets
eltrombopag

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains eltrombopag olamine equivalent to 25 mg eltrombopag.

3. LIST OF EXCIPIENTS

4. PHARMACEUTICAL FORM AND CONTENTS

14 film-coated tablets
28 film-coated tablets
Multipack containing 84 (3 packs of 28) film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use. Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE REACH AND SIGHT OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/10/612/001 (14 film-coated tablets)
EU/1/10/612/002 (28 film-coated tablets)
EU/1/10/612/003 84 film-coated tablets (3 packs of 28)

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

revolade 25 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN
**PARTICULARS TO APPEAR ON INTERMEDIATE CARTON**

Multipacks of 84 (3 packs of 28 film-coated tablets) – without blue box – 25 mg film-coated tablets

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<thead>
<tr>
<th>1. NAME OF THE MEDICINAL PRODUCT</th>
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<tbody>
<tr>
<td>Revolade 25 mg film-coated tablets</td>
</tr>
<tr>
<td>eltrombopag</td>
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<table>
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<tr>
<th>2. STATEMENT OF ACTIVE SUBSTANCE(S)</th>
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<tbody>
<tr>
<td>Each film-coated tablet contains eltrombopag olamine equivalent to 25 mg eltrombopag.</td>
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<tr>
<th>3. LIST OF EXCIPIENTS</th>
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<table>
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<tr>
<th>4. PHARMACEUTICAL FORM AND CONTENTS</th>
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<tbody>
<tr>
<td>28 film-coated tablets. Component of a multipack, can’t be sold separately.</td>
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<table>
<thead>
<tr>
<th>5. METHOD AND ROUTE(S) OF ADMINISTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read the package leaflet before use. Oral use.</td>
</tr>
</tbody>
</table>

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<tr>
<th>6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE REACH AND SIGHT OF CHILDREN</th>
</tr>
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<tbody>
<tr>
<td>Keep out of the sight and reach of children.</td>
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<tr>
<th>7. OTHER SPECIAL WARNING(S), IF NECESSARY</th>
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<th>8. EXPIRY DATE</th>
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<tr>
<td>EXP</td>
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<tr>
<th>9. SPECIAL STORAGE CONDITIONS</th>
</tr>
</thead>
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<tr>
<th>10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE</th>
</tr>
</thead>
</table>
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/10/612/003

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

revolade 25 mg
MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

Blister

1. NAME OF THE MEDICINAL PRODUCT

Revolade 25 mg film-coated tablets
eltrombopag

2. NAME OF THE MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. OTHER
1. NAME OF THE MEDICINAL PRODUCT

Revolade 50 mg film-coated tablets
eltrombopag

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains eltrombopag olamine equivalent to 50 mg eltrombopag

3. LIST OF EXCIPIENTS

4. PHARMACEUTICAL FORM AND CONTENTS

14 film-coated tablets
28 film-coated tablets
Multipack containing 84 (3 packs of 28) film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use. Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE REACH AND SIGHT OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/10/612/004 (14 film-coated tablets)
EU/1/10/612/005 (28 film-coated tablets)
EU/1/10/612/006 84 film-coated tablets (3 packs of 28)

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

revolade 50 mg

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC
SN
NN
PARTICULARS TO APPEAR ON INTERMEDIATE CARTON

Multipacks of 84 (3 packs of 28 film-coated tablets) – without blue box – 50 mg film-coated tablets

1. NAME OF THE MEDICINAL PRODUCT

Revolade 50 mg film-coated tablets
eltrombopag

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains eltrombopag olamine equivalent to 50 mg eltrombopag

3. LIST OF EXCIPIENTS

4. PHARMACEUTICAL FORM AND CONTENTS

28 film-coated tablets. Component of a multipack, can’t be sold separately.

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use. Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE REACH AND SIGHT OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Novartis Europharm Limited
Vista Building
Elm Park, Merrion Road
Dublin 4
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/10/612/006

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

revolade 50 mg
### MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS

**Blister**

<table>
<thead>
<tr>
<th>1. NAME OF THE MEDICINAL PRODUCT</th>
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<tbody>
<tr>
<td>Revolade 50 mg film-coated tablets</td>
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<tr>
<td>eltrombopag</td>
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<th>2. NAME OF THE MARKETING AUTHORITY</th>
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<tr>
<td>Novartis Europharm Limited</td>
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<th>4. BATCH NUMBER</th>
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<tr>
<th>5. OTHER</th>
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</table>
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

CARTON OF 75 mg – 14, 28, 84 (3 PACKS of 28) TABLETS

1. NAME OF THE MEDICINAL PRODUCT

Revolade 75 mg film-coated tablets
eltrombopag

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains eltrombopag olamine equivalent to 75 mg eltrombopag

3. LIST OF EXCIPIENTS

4. PHARMACEUTICAL FORM AND CONTENTS

14 film-coated tablets
28 film-coated tablets
Multipack containing 84 (3 packs of 28) film-coated tablets

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use. Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE REACH AND SIGHT OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
### 11. NAME AND ADDRESS OF THE MARKETING AUTHORITYHOLDER

Novartis Europharm Limited  
Vista Building  
Elm Park, Merrion Road  
Dublin 4  
Ireland

### 12. MARKETING AUTHORITYNUMBER(S)

- EU/1/10/612/007 (14 film-coated tablets)  
- EU/1/10/612/008 (28 film-coated tablets)  
- EU/1/10/612/009 84 film-coated tablets (3 packs of 28)

### 13. BATCH NUMBER

Lot

### 14. GENERAL CLASSIFICATION FOR SUPPLY

### 15. INSTRUCTIONS ON USE

### 16. INFORMATION IN BRAILLE

-revolade 75 mg

### 17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

### 18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

- PC  
- SN  
- NN
### PARTICULARS TO APPEAR ON INTERMEDIATE CARTON

Multipacks of 84 (3 packs of 28 film-coated tablets) – without blue box – 75 mg film-coated tablets

### 1. NAME OF THE MEDICINAL PRODUCT

Revolade 75 mg film-coated tablets
eltrombopag

### 2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each film-coated tablet contains eltrombopag olamine equivalent to 75 mg eltrombopag

### 3. LIST OF EXCIPIENTS

### 4. PHARMACEUTICAL FORM AND CONTENTS

28 film-coated tablets. Component of a multipack, can’t be sold separately.

### 5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use. Oral use.

### 6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE REACH AND SIGHT OF CHILDREN

Keep out of the sight and reach of children.

### 7. OTHER SPECIAL WARNING(S), IF NECESSARY

### 8. EXPIRY DATE

EXP

### 9. SPECIAL STORAGE CONDITIONS

### 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE
<table>
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<tr>
<th>11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER</th>
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<tbody>
<tr>
<td>Novartis Europharm Limited</td>
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<tr>
<td>Vista Building</td>
</tr>
<tr>
<td>Elm Park, Merrion Road</td>
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<tr>
<td>Dublin 4</td>
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<tr>
<td>Ireland</td>
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<th>12. MARKETING AUTHORISATION NUMBER(S)</th>
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<td>Lot</td>
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<tr>
<th>14. GENERAL CLASSIFICATION FOR SUPPLY</th>
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<tr>
<th>15. INSTRUCTIONS ON USE</th>
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<table>
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<tr>
<th>16. INFORMATION IN BRAILLE</th>
</tr>
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<tbody>
<tr>
<td>revolade 75 mg</td>
</tr>
<tr>
<td><strong>MINIMUM PARTICULARS TO APPEAR ON BLISTERS OR STRIPS</strong></td>
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<tr>
<td>--------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Blister</strong></td>
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<table>
<thead>
<tr>
<th><strong>1. NAME OF THE MEDICINAL PRODUCT</strong></th>
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<tbody>
<tr>
<td>Revolade 75 mg film-coated tablets</td>
</tr>
<tr>
<td>eltrombopag</td>
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</table>

<table>
<thead>
<tr>
<th><strong>2. NAME OF THE MARKETING AUTHORISATION HOLDER</strong></th>
</tr>
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<tbody>
<tr>
<td>Novartis Europharm Limited</td>
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<table>
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<tr>
<th><strong>3. EXPIRY DATE</strong></th>
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<th><strong>4. BATCH NUMBER</strong></th>
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<table>
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<tr>
<th><strong>5. OTHER</strong></th>
</tr>
</thead>
</table>
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

Carton of 25 mg powder for oral suspension

1. **NAME OF THE MEDICINAL PRODUCT**

Revolade 25 mg powder for oral suspension
eltrombopag

2. **STATEMENT OF ACTIVE SUBSTANCE(S)**

Each sachet contains eltrombopag olamine equivalent to 25 mg of eltrombopag.

3. **LIST OF EXCIPIENTS**

4. **PHARMACEUTICAL FORM AND CONTENTS**

30 sachets and 1 mixing bottle + 30 single-use oral syringes

5. **METHOD AND ROUTE(S) OF ADMINISTRATION**

Read the package leaflet before use.
Oral 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**

8. **EXPIRY DATE**

EXP
Use within 30 minutes of reconstitution.

9. **SPECIAL STORAGE CONDITIONS**

10. **SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**
<table>
<thead>
<tr>
<th>11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER</th>
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</thead>
<tbody>
<tr>
<td>Novartis Europharm Limited</td>
</tr>
<tr>
<td>Vista Building</td>
</tr>
<tr>
<td>Elm Park, Merrion Road</td>
</tr>
<tr>
<td>Dublin 4</td>
</tr>
<tr>
<td>Ireland</td>
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</tbody>
</table>

<table>
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<tr>
<th>12. MARKETING AUTHORISATION NUMBER(S)</th>
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<tbody>
<tr>
<td>EU/1/10/612/013 (30 sachets of powder for oral suspension)</td>
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</table>

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<tr>
<th>13. BATCH NUMBER</th>
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<tr>
<td>Lot</td>
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<th>14. GENERAL CLASSIFICATION FOR SUPPLY</th>
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<th>15. INSTRUCTIONS ON USE</th>
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<tr>
<th>16. INFORMATION IN BRAILLE</th>
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<tr>
<td>revolade 25 mg sachets</td>
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<tr>
<th>17. UNIQUE IDENTIFIER – 2D BARCODE</th>
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<td>2D barcode carrying the unique identifier included.</td>
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<th>18. UNIQUE IDENTIFIER - HUMAN READABLE DATA</th>
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<td>PC</td>
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<td>SN</td>
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**PARTICULARS TO APPEAR ON THE OUTER PACKAGING**

| Carton of 25 mg powder for oral suspension – without blue box – 30 sachets |

**1. NAME OF THE MEDICINAL PRODUCT**

Revolade 25 mg powder for oral suspension

eltrombopag

**2. STATEMENT OF ACTIVE SUBSTANCE(S)**

Each sachet contains eltrombopag olamine equivalent to 25 mg of eltrombopag.

**3. LIST OF EXCIPIENTS**

**4. PHARMACEUTICAL FORM AND CONTENTS**

30 sachets.

**5. METHOD AND ROUTE(S) OF ADMINISTRATION**

Read the package leaflet before use.

Oral 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**

**8. EXPIRY DATE**

EXP

Use within 30 minutes of reconstitution.

**9. SPECIAL STORAGE CONDITIONS**

**10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE**
<table>
<thead>
<tr>
<th>Section</th>
<th>Information</th>
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</table>
| 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER | Novartis Europharm Limited  
Vista Building  
Elm Park, Merrion Road  
Dublin 4  
Ireland |
<p>| 12. MARKETING AUTHORISATION NUMBER(S) | EU/1/10/612/013 |
| 13. BATCH NUMBER | Lot |
| 14. GENERAL CLASSIFICATION FOR SUPPLY | |
| 15. INSTRUCTIONS ON USE | |
| 16. INFORMATION IN BRAILLE | revolade 25 mg sachets |</p>
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<tr>
<th><strong>MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS</strong></th>
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<td><strong>SACHET</strong></td>
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<tr>
<td><strong>1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION</strong></td>
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<tr>
<td>Revolade 25 mg powder for oral suspension</td>
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<tr>
<td>eltrombopag</td>
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<tr>
<td>Oral use</td>
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<td><strong>2. NAME OF THE MARKETING AUTHORISATION HOLDER</strong></td>
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<td>Novartis Europharm Limited</td>
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<td><strong>3. EXPIRY DATE</strong></td>
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<td><strong>5. OTHER</strong></td>
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B. PACKAGE LEAFLET
Package Leaflet: Information for the patient

Revolade 12.5 mg film-coated tablets
Revolade 25 mg film-coated tablets
Revolade 50 mg film-coated tablets
Revolade 75 mg film-coated tablets
eltrombopag

Read all of this leaflet carefully before you start taking 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 or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any of the side effects talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4

What is in this leaflet:
1. What Revolade is and what it is used for
2. What you need to know before you take Revolade
3. How to take Revolade
4. Possible side effects
5. How to store Revolade
6. Contents of the pack and other information

1. What Revolade is and what it is used for

Revolade contains eltrombopag, which belongs to a group of medicines called thrombopoietin-receptor agonists. It is used to help increase the number of platelets in your blood. Platelets are blood cells that help to reduce or prevent bleeding.

- Revolade is used to treat a bleeding disorder called immune (primary) thrombocytopenia (ITP) in patients aged 1 year and above who have already taken other medicines (corticosteroids or immunoglobulins), which have not worked.

  ITP is caused by a low blood platelet count (thrombocytopenia). People with ITP have an increased risk of bleeding. Symptoms patients with ITP may notice include petechiae (pinpoint-sized flat round red spots under the skin), bruising, nosebleeds, bleeding gums and not being able to control bleeding if they are cut or injured.

- Revolade can also be used to treat low platelet count (thrombocytopenia) in adults with hepatitis C virus (HCV) infections, if they have had problems with side effects while on interferon treatment. Many people with hepatitis C have low platelet counts, not only as a result of the disease, but also due to some of the antiviral medicines that are used to treat it. Taking Revolade may make it easier for you to complete a full course of antiviral medicine (peginterferon and ribavirin).

- Revolade may also be used to treat adult patients with low blood counts caused by severe aplastic anaemia (SAA). SAA is a disease in which the bone marrow is damaged, causing a deficiency of the red blood cells (anaemia), white blood cells (leukopenia) and platelets (thrombocytopenia).
2. **What you need to know before you take Revolade**

**Do not take Revolade**
- **if you are allergic** to eltrombopag or any of the other ingredients of this medicine (listed in section 6 under ‘What Revolade contains’).
  ➔ Check with your doctor if you think this applies to you.

**Warnings and precautions**
Talk to your doctor before taking Revolade:
- **if you have liver problems.** People who have low platelet counts as well as advanced chronic (long-term) liver disease are more at risk of side effects, including life-threatening liver damage and blood clots. If your doctor considers that the benefits of taking Revolade outweigh the risks, you will be closely monitored during treatment.
- **if you are at risk of blood clots** in your veins or arteries, or you know that blood clots are common in your family.
  You may be at higher risk of blood clots:
  - as you get older
  - if you have had to stay in bed for a long time
  - if you have cancer
  - if you are taking the contraceptive birth control pill or hormone replacement therapy
  - if you have recently had surgery or received a physical injury
  - if you are very overweight (obese)
  - if you are a smoker
  - if you have advanced chronic liver disease
  ➔ If any of these apply to you, tell your doctor before starting treatment. You should not take Revolade unless your doctor considers that the expected benefits outweigh the risk of blood clots.
- **if you have cataracts** (the lens of the eye getting cloudy)
- **if you have another blood condition**, such as myelodysplastic syndrome (MDS). Your doctor will carry out tests to check that you do not have this blood condition before you start Revolade.
  If you have MDS and take Revolade, your MDS may get worse.
  ➔ Tell your doctor if any of these apply to you.

**Eye examinations**
Your doctor will recommend that you are checked for cataracts. If you do not have routine eye-tests your doctor should arrange regular testing. You may also be checked for the occurrence of any bleeding in or around your retina (the light-sensitive layer of cells at the back of the eye).

**You will need regular tests**
Before you start taking Revolade, your doctor will carry out blood tests to check your blood cells, including platelets. These tests will be repeated at intervals while you are taking it.

**Blood tests for liver function**
Revolade can cause blood test results that may be signs of liver damage - an increase of some liver enzymes, especially bilirubin and alanine/aspartate transaminases. If you are taking interferon-based treatments together with Revolade to treat low platelet count due to hepatitis C, some liver problems can get worse.

You will have blood tests to check your liver function before you start taking Revolade and at intervals while you are taking it. You may need to stop taking Revolade if the amount of these substances increases too much, or if you get other signs of liver damage.
  ➔ Read the information ‘Liver problems’ in section 4 of this leaflet.

**Blood tests for platelet count**
If you stop taking Revolade, your blood platelet count is likely to become low again within several days. The platelet count will be monitored, and your doctor will discuss appropriate precautions with you.
A very high blood platelet count may increase the risk of blood clotting. However blood clots can also form with normal or even low platelet counts. Your doctor will adjust your dose of Revolade to ensure that your platelet count does not become too high.

⚠️ Get medical help immediately if you have any of these signs of a blood clot:
- swelling, pain or tenderness in one leg
- sudden shortness of breath especially together with sharp pain in the chest or rapid breathing
- abdominal (stomach) pain, enlarged abdomen, blood in your stools

Tests to check your bone marrow
In people who have problems with their bone marrow, medicines like Revolade could make the problems worse. Signs of bone marrow changes may show up as abnormal results in your blood tests. Your doctor may also carry out tests to directly check your bone marrow during treatment with Revolade.

Checks for digestive bleeding
If you are taking interferon-based treatments together with Revolade you will be monitored for any signs of bleeding in your stomach or intestine after you stop taking Revolade.

Heart monitoring
Your doctor may consider it necessary to monitor your heart during treatment with Revolade and carry out an electrocardiogram (ECG) test.

Older people (65 years and above)
There are limited data on the use of Revolade in patients aged 65 years and older. Care should be taken when using Revolade if you are aged 65 years or above.

Children and adolescents
Revolade is not recommended for children aged under 1 year who have ITP. It is also not recommended for people under 18 years with low platelet counts due to hepatitis C or severe aplastic anaemia.

Other medicines and Revolade
Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines. This includes medicines obtained without prescription and vitamins.

Some everyday medicines interact with Revolade – including prescription and non-prescription medicines and minerals. These include:
- antacid medicines to treat indigestion, heartburn or stomach ulcers (see also ‘When to take it’ in section 3)
- medicines called statins, to lower cholesterol
- some medicines to treat HIV infection, such as lopinavir and/or ritonavir
- ciclosporin used in the context of transplantations or immune diseases
- minerals such as iron, calcium, magnesium, aluminium, selenium and zinc which may be found in vitamin and mineral supplements (see also ‘When to take it’ in section 3)
- medicines such as methotrexate and topotecan, to treat cancer

➔ Talk to your doctor if you take any of these. Some of them are not to be taken with Revolade, or the dose may need adjusting, or you may need to alter the timing of when you take them. Your doctor will review the medicines you are taking, and suggest suitable replacements if necessary.

If you are also taking medicines to prevent blood clots there is a greater risk of bleeding. Your doctor will discuss this with you.

If you are taking corticosteroids, danazol, and/or azathioprine you may need to take a lower dose or to stop taking them while you are taking Revolade.
Revolade with food and drink
Do not take Revolade with dairy foods or drinks as the calcium in dairy products affects the absorption of the medicine. For more information, see ‘When to take it’ in section 3.

Pregnancy and breast-feeding
Don’t use Revolade if you are pregnant unless your doctor specifically recommends it. The effect of Revolade during pregnancy is not known.
- Tell your doctor if you are pregnant, think you may be pregnant, or are planning to have a baby.
- Use a reliable method of contraception while you’re taking Revolade, to prevent pregnancy
- If you do become pregnant during treatment with Revolade, tell your doctor.

Don’t breast-feed while you are taking Revolade. It is not known whether Revolade passes into breast-milk.
⇒ If you are breast-feeding or planning to breast-feed, tell your doctor.

Driving and using machines
Revolade can make you dizzy and have other side effects that make you less alert.
⇒ Don’t drive or use machines unless you are sure you’re not affected.

Revolade contains sodium
This medicine contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially ‘sodium-free’.

3. How to take Revolade
Always take this medicine exactly as your doctor has told you. Check with your doctor or pharmacist if you are not sure. Do not change the dose or schedule for taking Revolade unless your doctor or pharmacist advises you to. While you are taking Revolade, you will be under the care of a doctor with specialist experience in treating your condition.

How much to take
For ITP
Adults and children (6 to 17 years) – the usual starting dose for ITP is one 50 mg tablet of Revolade a day. If you are of East-/Southeast-Asian origin you may need to start at a lower dose of 25 mg.

Children (1 to 5 years) — the usual starting dose for ITP is one 25 mg tablet of Revolade a day.

For hepatitis C
Adults - the usual starting dose for hepatitis C is one 25 mg tablet of Revolade a day. If you are of East-/Southeast-Asian origin you will start on the same 25 mg dose.

For SAA
Adults - the usual starting dose for SAA is one 50 mg tablet of Revolade a day. If you are of East-/Southeast-Asian origin you may need to start at a lower dose of 25 mg.

Revolade may take 1 to 2 weeks to work. Based on your response to Revolade your doctor may recommend that your daily dose is changed.

How to take the tablets
Swallow the tablet whole, with some water.
When to take it

Make sure that –

• in the 4 hours before you take Revolade
• and the 2 hours after you take Revolade

you don’t consume any of the following:

• dairy foods such as cheese, butter, yoghurt or ice cream
• milk or milk shakes, drinks containing milk, yoghurt or cream
• antacids, a type of medicine for indigestion and heartburn
• some mineral and vitamin supplements including iron, calcium, magnesium, aluminium, selenium and zinc

If you do, the medicine will not be properly absorbed into your body.

For more advice about suitable foods and drinks, talk to your doctor.

If you take more Revolade than you should
Contact a doctor or pharmacist immediately. If possible show them the pack, or this leaflet. You will be monitored for any signs or symptoms of side effects and given appropriate treatment immediately.

If you forget to take Revolade
Take the next dose at the usual time. Do not take more than one dose of Revolade in one day.

If you stop taking Revolade
Don’t stop taking Revolade without talking to your doctor. If your doctor advises you to stop treatment, your platelet count will then be checked each week for four weeks. See also ‘Bleeding or bruising after you stop treatment’ in section 4.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Symptoms needing attention: see a doctor
People taking Revolade for either ITP or low blood platelet counts due to hepatitis C could develop signs of potentially serious side effects. It is important to tell a doctor if you develop these symptoms.
Higher risk of blood clots
Certain people may have a higher risk of blood clots, and medicines like Revolade could make this problem worse. The sudden blocking of a blood vessel by a blood clot is an uncommon side effect and may affect up to 1 in 100 people.

⚠️ Get medical help immediately if you develop signs and symptoms of a blood clot, such as:
- swelling, pain, heat, redness, or tenderness in one leg
- sudden shortness of breath, especially together with sharp pain in the chest or rapid breathing
- abdominal (stomach) pain, enlarged abdomen, blood in your stools.

Liver problems
Revolade can cause changes that show up in blood tests, and may be signs of liver damage. Liver problems (increased enzymes showing up in blood tests) are common and may affect up to 1 in 10 people. Other liver problems are uncommon and may affect up to 1 in 100 people.

If you have either of these signs of liver problems:
- yellowing of the skin or the whites of the eyes (jaundice)
- unusually dark-coloured urine
⇒ tell your doctor immediately.

Bleeding or bruising after you stop treatment
Within two weeks of stopping Revolade, your blood platelet count will usually drop back down to what it was before starting Revolade. The lower platelet count may increase the risk of bleeding or bruising. Your doctor will check your platelet count for at least 4 weeks after you stop taking Revolade.
⇒ Tell your doctor if you have any bleeding or bruising after stopping Revolade.

Some people have bleeding in the digestive system after they stop taking peginterferon, ribavirin, and Revolade. Symptoms include:
- black tarry stools (discoloured bowel movements are a uncommon side effect that may affect up to 1 in 100 people)
- blood in your stools
- vomiting blood or something that looks like coffee grounds
⇒ Tell your doctor immediately if you have any of these symptoms.

The following side effects have been reported to be associated with treatment with Revolade in adult patients with ITP:

Very common side effects
These may affect more than 1 in 10 people:
- common cold
- feeling sick (nausea)
- diarrhoea
- cough
- infection in the nose, sinuses, throat and upper airways (upper respiratory tract infection)
- back pain

Very common side effects that may show up in blood tests:
- increased of liver enzymes (alanine aminotransferase (ALT))
Common side effects
These may affect up to 1 in 10 people:
- muscle pain, muscle spasm, muscle weakness
- bone pain
- heavy menstrual period
- sore throat and discomfort when swallowing
- eye problems including abnormal eye test, dry eye, eye pain and blurred vision
- vomiting
- flu (influenza)
- cold sore
- pneumonia
- irritation and inflammation (swelling) of the sinuses
- inflammation (swelling) and infection of the tonsils,
- infection of the lungs, sinuses, nose and throat
- inflammation of the gum tissue
- loss of appetite
- feeling of tingling, prickling or numbness, commonly called “pins and needles”
- decreased skin sensations
- feeling drowsy
- ear pain
- pain, swelling and tenderness in one of your legs (usually the calf) with warm skin in the affected area (signs of a blood clot in a deep vein)
- localised swelling filled with blood from a break in a blood vessel (haematoma)
- hot flushes
- mouth problems including dry mouth, sore mouth, sensitive tongue, bleeding gums, mouth ulcers
- runny nose
- toothache
- abdominal pain
- abnormal liver function
- skin changes including excessive sweating, itching bumpy rash, red spots, changes in appearance of the skin
- hair loss
- foamy, frothy or bubbly-looking urine (signs of protein in urine)
- high temperature, feeling hot
- chest pain
- feeling weak
- problems sleeping, depression
- migraine
- decreased vision
- spinning sensation (vertigo)
- digestive wind/gas
Common side effects that may show up in blood test:
- decreased number of red blood cells (anaemia)
- decreased number of platelets (thrombocytopenia)
- decreased number of white blood cells
- decreased haemoglobin level
- increased number of eosinophils
- increased number of white blood cells (leukocytosis)
- increased levels of uric acid
- decreased levels of potassium
- increased levels of creatinine
- increased levels of alkaline phosphatase
- increase of liver enzymes (aspartate aminotransferase (AST))
- increase in blood bilirubin (a substance produced by the liver)
- increased levels of some proteins

Uncommon side effects
These may affect up to 1 in 100 people:
- allergic reaction
- interruption of blood supply to part of the heart
- sudden shortness of breath, especially when accompanied with sharp pain in the chest and/or rapid breathing, which could be signs of a blood clot in the lungs (see ‘Higher risk of blood clots’ earlier in section 4)
- the loss of function of part of the lung caused by a blockage in the lung artery
- possible pain, swelling, and/or redness around a vein which could be signs of blood clot in a vein
- yellowing of the skin and/or abdominal pain which could be signs of a blockage in the bile tract, lesion on liver, liver damage due to inflammation (see ‘Liver problems’ earlier in section 4)
- liver injury due to medication
- heart beating faster, irregular heartbeat, bluish discolouration of the skin, disturbances of heart rhythm (QT prolongation) which could be signs of a disorder related to the heart and the blood vessels
- blood clot
- flushing
- painful swollen joints caused by uric acid (gout)
- lack of interest, mood changes, crying that is difficult to stop, or occurs at unexpected times
- problems with balance, speech and nerve function, shaking
- painful or abnormal skin sensations
- paralysis on one side of the body
- migraine with aura
- nerve damage
- dilation or swelling of blood vessels that cause headache
- eye problems including increased production of tears, cloudy lens in the eye (cataract), bleeding of the retina, dry eyes
- problems with the nose, throat and sinuses, breathing problems when sleeping
- mouth and throat blisters/sores
- loss of appetite
- digestive system problems including frequent bowel movements, food poisoning, blood in stool, vomiting of blood
- rectal bleeding, change in stool colour, abdominal bloating, constipation
- mouth problems, including dry or sore mouth, tongue pain, bleeding gums, discomfort in mouth
- sunburn
- feeling hot, feeling anxious
• redness or swelling around a wound
• bleeding around a catheter (if present) into the skin
• sensation of a foreign body
• kidney problems including inflammation of the kidney, excessive urination at night, kidney failure, white cells in urine
• cold sweat
• generally feeling unwell
• infection of the skin
• skin changes including skin discolouration, peeling, redness, itching and sweating
• muscular weakness
• cancer of rectum and colon

Uncommon side effects that may show up in laboratory tests:
• changes in the shape of red blood cells
• presence of developing white blood cells which may be indicative of certain diseases
• increased number of platelets
• decreased levels of calcium
• decreased number of red blood cells (anaemia) caused by excessive destruction of red blood cells (haemolytic anaemia)
• increased number of myelocytes
• increased band neutrophils
• increased blood urea
• increased levels of protein in urine
• increased levels of blood albumin
• increased levels of total protein
• decreased levels of blood albumin
• increased pH of urine
• increased level of haemoglobin

The following additional side effects have been reported to be associated with treatment with Revolade in children (aged 1 to 17 years) with ITP:
If these side effects become severe, please tell your doctor, pharmacist or nurse.

Very common side effects
These may affect more than 1 in 10 children:
• infection in the nose, sinuses, throat and upper airways, common cold (upper respiratory tract infection)
• diarrhoea
• abdominal pain
• cough
• high temperature
• feeling sick (nausea)

Common side effects
These may affect up to 1 in 10 children:
• difficulty in sleeping (insomnia)
• toothache
• pain in the nose and throat
• itchy, runny or blocked nose
• sore throat, runny nose, nasal congestion and sneezing
• mouth problems including dry mouth, sore mouth, sensitive tongue, bleeding gums, mouth ulcers
The following side effects have been reported to be associated with treatment with Revolade in combination with peginterferon and ribavirin in patients with HCV:

**Very common side effects**
These may affect **more than 1 in 10** people:
- headache
- loss of appetite
- cough
- feeling sick (nausea), diarrhoea
- muscle pain, muscle weakness
- itching
- feeling tired
- fever
- unusual hair loss
- feeling weak
- flu-like illness
- swelling in the hands or feet
- chills

**Very common side effects that may show up in blood tests:**
- decreased number of red blood cells (anaemia)

**Common side effects**
These may affect **up to 1 in 10** people:
- infection of the urinary system
- inflammation of the nasal passages, throat and mouth, flu-like symptoms, dry mouth, sore or inflamed mouth, toothache
- weight loss
- sleep disorders, abnormal drowsiness, depression, anxiety
- dizziness, problems with attention and memory, change in mood
- decreased brain function further to liver injury
- tingling or numbness of the hands or feet
- fever, headache
- eye problems, including cloudy lens in the eye (cataract), dry eye, small yellow deposits in the retina, yellowing of the whites of the eye
- bleeding of the retina
- spinning sensation (vertigo)
- fast or irregular heartbeat (palpitations), shortness of breath
- cough bringing up phlegm, runny nose, flu (influenza), cold sore, sore throat and discomfort when swallowing
- digestive system problems, including vomiting, stomach pain, indigestion, constipation, swollen stomach, taste disturbances, piles (haemorrhoids), stomach pain/discomfort, swollen blood vessels and bleeding in the gullet (oesophagus)
- toothache
- liver problems, including tumour in the liver, yellowing of the whites of the eyes or skin (jaundice), liver injury due to medication (see ‘Liver problems’ earlier in section 4)
- skin changes, including rash, dry skin, eczema, redness of the skin, itching, excessive sweating, unusual skin growths, hair loss
- joint pain, back pain, bone pain, pain in extremities (arms, legs, hands or feet), muscle spasms
- irritability, generally feeling unwell, skin reaction such as redness or swelling and pain at the site of injection, chest pain and discomfort, build-up of fluid in the body or extremities causing swelling
- infection in the nose, sinuses, throat and upper airways, common cold (upper respiratory tract infection), inflammation of mucous membrane lining the bronchi
- depression, anxiety, sleep problems, nervousness
Common side effects that may show up in blood tests:
- increased blood sugar (glucose)
- decreased number of white blood cells
- decreased number of neutrophils
- decreased level of blood albumin
- decreased level of haemoglobin
- increased levels of blood bilirubin (a substance produced by the liver)
- changes in the enzymes that control blood clotting

Uncommon side effects
These may affect up to 1 in 100 people:
- painful urination
- disturbances of heart rhythm (QT prolongation)
- stomach flu (gastroenteritis), sore throat
- mouth blisters/sores, inflammation of the stomach
- skin changes including change in colour, peeling, redness, itching, lesion and night sweats
- blood clots in a vein to the liver (possible liver and/or digestive system damage)
- abnormal blood clotting in small blood vessels with kidney failure
- rash, bruising at the injection site, chest discomfort
- decreased number of red blood cells (anaemia) caused by excessive destruction of red blood cells (haemolytic anaemia)
- confusion, agitation
- liver failure

The following side effects have been reported to be associated with treatment with Revolade in patients with severe aplastic anaemia (SAA):
If these side effects become severe, please tell your doctor, pharmacist or nurse.

Very common side effects
These may affect more than 1 in 10 people.
- cough
- headache
- mouth and throat pain
- diarrhoea
- feeling sick (nausea)
- joint pain (arthralgia)
- pain in extremities (arms, legs, hands and feet)
- dizziness
- feeling very tired
- fever
- chills
- itchy eyes
- blisters in the mouth
- bleeding of the gums
- abdominal pain
- muscle spasms

Very common side effects that may show up in the blood tests
- abnormal changes to the cells in your bone marrow
- increased levels of liver enzymes (aspartate aminotransferase (AST))
Common side effects
These may affect up to 1 in 10 people.

- anxiety
- depression
- feeling cold
- generally feeling unwell
- eye problems including vision problems, blurred vision, cloudy lens in the eye (cataract), spots or deposits in eye (vitreous floaters), dry eye, itchy eye, yellowing of the whites of the eyes or skin
- nose bleed
- digestive system problems including difficulty swallowing, mouth pain, swollen tongue, vomiting, loss of appetite, stomach pain/discomfort, swollen stomach, digestive wind/gas, constipation, intestinal motility disorder which can cause constipation, bloating, diarrhea and/or above mentioned symptoms, change in stool colour
- fainting
- skin problems including small red or purple spots caused by bleeding into the skin (petechiae) rash, itching, hives, skin lesion
- back pain
- muscle pain
- bone pain
- weakness (asthenia)
- swelling of the lower limbs due to the accumulation of fluids
- abnormal colored urine
- interruption in blood supply to spleen (splenic infarction)
- runny nose

Common side effects that may show up in the blood tests

- increase in enzymes due to muscle breakdown (creatine phosphokinase)
- accumulation of iron in the body (iron overload)
- decrease in blood sugar levels (hypoglycaemia)
- increased levels of blood bilirubin (a substance produced by the liver)
- decreased levels of white blood cells

Side effects with frequency not known
Frequency cannot be estimated from the available data

- skin discolouration
- darkening of the skin
- liver injury due to medication

Reporting of side effects
If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. **How to store Revolade**

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 carton and the blister.

This medicine does not require any special storage conditions.

Do not throw away any medicines via wastewater or household waste. 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 Revolade contains
The active substance in Revolade is eltrombopag.

12.5 mg film-coated tablets
Each film-coated tablet contains eltrombopag olamine equivalent to 12.5 mg eltrombopag.

25 mg film-coated tablets
Each film-coated tablet contains eltrombopag olamine equivalent to 25 mg eltrombopag.

50 mg film-coated tablets
Each film-coated tablet contains eltrombopag olamine equivalent to 50 mg eltrombopag.

75 mg film-coated tablets
Each film-coated tablet contains eltrombopag olamine equivalent to 75 mg eltrombopag.

The other ingredients are: hypromellose, macrogol 400, magnesium stearate, mannitol (E421), microcrystalline cellulose, povidone, sodium starch glycolate, titanium dioxide (E171).

Revolade 12.5 mg and 25 mg film-coated tablets also contain polysorbate 80 (E433).

Revolade 50 mg film-coated tablets also contain iron oxide red (E172) and iron oxide yellow (E172).

Revolade 75 mg film-coated tablets also contain iron oxide red (E172) and iron oxide black (E172).

What Revolade looks like and contents of the pack
Revolade 12.5 mg film-coated tablets are round, biconvex, white, debossed with ‘GS MZ1’ and ‘12.5’ on one side.

Revolade 25 mg film-coated tablets are round, biconvex, white, debossed with ‘GS NX3’ and ‘25’ on one side.

Revolade 50 mg film-coated tablets are round, biconvex, brown, debossed with ‘GS UFU’ and ‘50’ on one side.

Revolade 75 mg film-coated tablets are round, biconvex, pink, debossed with ‘GS FFS’ and ‘75’ on one side.

They are supplied in aluminum blisters in a carton containing 14 or 28 film-coated tablets and multipacks containing 84 (3 packs of 28) film-coated tablets.

Not all pack sizes may be available in your country.
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This leaflet was last revised in

Detailed information on this medicine is available on the European Medicines Agency web site:
Package Leaflet: Information for the patient

Revolade 25 mg powder for oral suspension
eltrombopag

Read all of this leaflet carefully before you start taking 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 or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any of the side effects talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4

What is in this leaflet:
1. What Revolade is and what it is used for
2. What you need to know before you take Revolade
3. How to take Revolade
4. Possible side effects
5. How to store Revolade
6. Contents of the pack and other information
   Instructions for use

1. What Revolade is and what it is used for

Revolade contains eltrombopag, which belongs to a group of medicines called thrombopoietin-receptor agonists. It is used to help increase the number of platelets in your blood. Platelets are blood cells that help to reduce or prevent bleeding.

- Revolade is used to treat a bleeding disorder called immune (primary) thrombocytopenia (ITP) in patients aged 1 year and above who have already taken other medicines (corticosteroids or immunoglobulins), which have not worked.
  
  ITP is caused by a low blood platelet count (thrombocytopenia). People with ITP have an increased risk of bleeding. Symptoms patients with ITP may notice include petechiae (pinpoint-sized flat round red spots under the skin), bruising, nosebleeds, bleeding gums and not being able to control bleeding if they are cut or injured.

- Revolade can also be used to treat low platelet count (thrombocytopenia) in adults with hepatitis C virus (HCV) infections, if they have had problems with side effects while on interferon treatment. Many people with hepatitis C have low platelet counts, not only as a result of the disease, but also due to some of the antiviral medicines that are used to treat it. Taking Revolade may make it easier for you to complete a full course of antiviral medicine (peginterferon and ribavirin).

- Revolade may also be used to treat adult patients with low blood counts caused by severe aplastic anaemia (SAA). SAA is a disease in which the bone marrow is damaged, causing a deficiency of the red blood cells (anaemia), white blood cells (leukopenia) and platelets (thrombocytopenia).
What you need to know before you take Revolade

Do not take Revolade

- if you are allergic to eltrombopag or any of the other ingredients of this medicine (listed in section 6 under ‘What Revolade contains’).
  ➔ Check with your doctor if you think this applies to you.

Warnings and precautions

Talk to your doctor before taking Revolade:

- if you have liver problems. People who have low platelet counts as well as advanced chronic (long-term) liver disease are more at risk of side effects, including life-threatening liver damage and blood clots. If your doctor considers that the benefits of taking Revolade outweigh the risks, you will be closely monitored during treatment.
- if you are at risk of blood clots in your veins or arteries, or you know that blood clots are common in your family.
  You may be at higher risk of blood clots:
  - as you get older
  - if you have had to stay in bed for a long time
  - if you have cancer
  - if you are taking the contraceptive birth control pill or hormone replacement therapy
  - if you have recently had surgery or received a physical injury
  - if you are very overweight (obese)
  - if you are a smoker
  - if you have advanced chronic liver disease
  ➔ If any of these apply to you tell your doctor before starting treatment. You should not take Revolade unless your doctor considers that the expected benefits outweigh the risk of blood clots.
- if you have cataracts (the lens of the eye getting cloudy)
- if you have another blood condition, such as myelodysplastic syndrome (MDS). Your doctor will carry out tests to check that you do not have this blood condition before you start Revolade. If you have MDS and take Revolade, your MDS may get worse.
  ➔ Tell your doctor if any of these apply to you.

Eye examinations

Your doctor will recommend that you are checked for cataracts. If you do not have routine eye-tests, your doctor should arrange regular testing. You may also be checked for the occurrence of any bleeding in or around your retina (the light-sensitive layer of cells at the back of the eye).

You will need regular tests

Before you start taking Revolade, your doctor will carry out blood tests to check your blood cells, including platelets. These tests will be repeated at intervals while you are taking it.

Blood tests for liver function

Revolade can cause blood test results that may be signs of liver damage - an increase of some liver enzymes, especially bilirubin and alanine / aspartate transaminases. If you are taking interferon-based treatments together with Revolade to treat low platelet count due to hepatitis C, some liver problems can get worse.

You will have blood tests to check your liver function before you start taking Revolade and at intervals while you are taking it. You may need to stop taking Revolade if the amount of these substances increases too much, or if you get other signs of liver damage.
  ➔ Read the information ‘Liver problems’ in section 4 of this leaflet.
**Blood tests for platelet count**
If you stop taking Revolade, your blood platelet count is likely to become low again within several days. The platelet count will be monitored, and your doctor will discuss appropriate precautions with you.

A very high blood platelet count may increase the risk of blood clotting. However blood clots can also form with normal or even low platelet counts. Your doctor will adjust your dose of Revolade to ensure that your platelet count does not become too high.

⚠️ **Get medical help immediately** if you have any of these signs of a **blood clot**:
- swelling, pain or tenderness in one leg
- sudden shortness of breath especially together with sharp pain in the chest or rapid breathing
- abdominal (stomach) pain, enlarged abdomen, blood in your stools

**Tests to check your bone marrow**
In people who have problems with their bone marrow, medicines like Revolade could make the problems worse. Signs of bone marrow changes may show up as abnormal results in your blood tests. Your doctor may also carry out tests to directly check your bone marrow during treatment with Revolade.

**Checks for digestive bleeding**
If you are taking interferon-based treatments together with Revolade you will be monitored for any signs of bleeding in your stomach or intestine after you stop taking Revolade.

**Heart monitoring**
Your doctor may consider it necessary to monitor your heart during treatment with Revolade and carry out an electrocardiogram (ECG) test.

**Older people (65 years and above)**
There are limited data on the use of Revolade in patients aged 65 years and older. Care should be taken when using Revolade if you are aged 65 years or above.

**Children and adolescents**
Revolade is not recommended for children aged under 1 year who have ITP. It is also not recommended for people under 18 years with low platelet counts due to hepatitis C or severe aplastic anaemia.

**Other medicines and Revolade**
Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines. This includes medicines obtained without prescription and vitamins.

Some everyday medicines interact with **Revolade** – including prescription and non-prescription medicines and minerals. These include:
- antacid medicines to treat **indigestion, heartburn** or **stomach ulcers** (see also ‘**When to take it**’ in section 3)
- medicines called statins, to **lower cholesterol**
- some medicines to treat **HIV infection**, such as lopinavir and/or ritonavir
- ciclosporin used in the context of **transplantations** or **immune diseases**
- minerals such as iron, calcium, magnesium, aluminium, selenium and zinc which may be found in **vitamin and mineral supplements** (see also ‘**When to take it**’ in section 3)
- medicines such as methotrexate and topotecan, to treat **cancer**

➔ **Talk to your doctor** if you take any of these. Some of them are not to be taken with Revolade, or the dose may need adjusting, or you may need to alter the timing of when you take them. Your doctor will review the medicines you are taking, and suggest suitable replacements if necessary.
If you are also taking medicines to prevent blood clots, there is a greater risk of bleeding. Your doctor will discuss this with you.

If you are taking corticosteroids, danazol, and/or azathioprine you may need to take a lower dose or to stop taking them while you are taking Revolade.

Revolade with food and drink
Do not take Revolade with dairy foods or drinks as the calcium in dairy products affects the absorption of the medicine. For more information, see ‘When to take it’ in section 3.

Pregnancy and breast-feeding
Don’t use Revolade if you are pregnant unless your doctor specifically recommends it. The effect of Revolade during pregnancy is not known.

- Tell your doctor if you are pregnant, think you may be pregnant, or are planning to have a baby.
- Use a reliable method of contraception while you’re taking Revolade, to prevent pregnancy.
- If you do become pregnant during treatment with Revolade, tell your doctor.

Don’t breast-feed while you are taking Revolade. It is not known whether Revolade passes into breast-milk.

➔ If you are breast-feeding or planning to breast-feed, tell your doctor.

Driving and using machines
Revolade can make you dizzy and have other side effects that make you less alert.

➔ Don’t drive or use machines unless you are sure you’re not affected.

3. **How to take Revolade**

Always take this medicine exactly as your doctor has told you. Check with your doctor or pharmacist if you are not sure. Do not change the dose or schedule for taking Revolade unless your doctor or pharmacist advises you to. While you are taking Revolade, you will be under the care of a doctor with specialist experience in treating your condition.

**How much to take**

For ITP

- **Adults** and **children** (6 to 17 years) - the usual starting dose for ITP is **two 25 mg sachets** of Revolade a day. If you are of East-/Southeast-Asian origin you may need to start at a **lower dose of 25 mg**.

- **Children** (1 to 5 years) — the usual starting dose for ITP is **one 25 mg sachet** of Revolade a day.

For hepatitis C

- **Adults** - the usual starting dose for hepatitis C is **one 25 mg sachet** of Revolade a day. If you are of East-/Southeast-Asian origin you will start on the **same 25 mg dose**.

For SAA

- **Adults** - the usual starting dose for SAA is **two 25 mg sachets** of Revolade a day. If you are of East-/Southeast-Asian origin you may need to start at a **lower dose of 25 mg**.

Revolade may take 1 to 2 weeks to work. Based on your response to Revolade your doctor may recommend that your daily dose is changed.
How to give a dose of medicine
The powder for oral suspension is in sachets, the contents of which will need to mixed before you can take the medicine. After section 6 of this leaflet there are Instructions For Use on how to mix and administer the medicine. If you have questions or do not understand the Instructions For Use, talk to your doctor, nurse or pharmacist.

IMPORTANT — Use the medicine immediately after you have mixed the powder with water. If you do not use it within 30 minutes of mixing it, you will need to mix a new dose. Do not re-use the oral dosing syringe. A new single-use oral dosing syringe should be used to prepare each dose of Revolade for oral suspension.

When to take it

Make sure —
• in the 4 hours before you take Revolade
• and the 2 hours after you take Revolade

you don’t consume any of the following:
• dairy foods such as cheese, butter, yoghurt or ice cream
• milk or milk shakes, drinks containing milk, yoghurt or cream
• antacids, a type of medicine for indigestion and heartburn
• some mineral and vitamin supplements including iron, calcium, magnesium, aluminium, selenium and zinc

If you do, the medicine will not be properly absorbed into your body.

For more advice about suitable foods and drinks, talk to your doctor.

If you take more Revolade than you should
Contact a doctor or pharmacist immediately. If possible show them the pack, or this leaflet. You will be monitored for any signs or symptoms of side effects and given appropriate treatment immediately.

If you forget to take Revolade
Take your next dose at the usual time. Do not take more than one dose of Revolade in one day.

If you stop taking Revolade
Don’t stop taking Revolade without talking to your doctor. If your doctor advises you to stop treatment, your platelet count will then be checked each week for four weeks. See also ‘Bleeding or bruising after you stop treatment’ in section 4.

If you have any further questions on the use of this medicine, ask your doctor or pharmacist.
4. **Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them.

**Symptoms needing attention: see a doctor**

People taking Revolade for either ITP or low blood platelet counts due to hepatitis C could develop signs of potentially serious side effects. **It is important to tell a doctor if you develop these symptoms.**

**Higher risk of blood clots**

Certain people may have a higher risk of blood clots, and medicines like Revolade could make this problem worse. The sudden blocking of a blood vessel by a blood clot is an uncommon side effect and may affect up to 1 in 100 people.

⚠️ **Get medical help immediately if you develop signs and symptoms of a blood clot, such as:**

- swelling, pain, heat, redness or tenderness in one leg
- sudden shortness of breath, especially together with sharp pain in the chest or rapid breathing
- abdominal (stomach) pain, enlarged abdomen, blood in your stools.

**Liver problems**

Revolade can cause changes that show up in blood tests, and may be signs of liver damage. Liver problems (increased enzymes showing up in blood tests) are common and may affect up to 1 in 10 people. Other liver problems are uncommon and may affect up to 1 in 100 people.

If you have either of these signs of liver problems:

- yellowing of the skin or the whites of the eyes (jaundice)
- unusually dark-coloured urine

➔ tell your doctor immediately.

**Bleeding or bruising after you stop treatment**

Within two weeks of stopping Revolade, your blood platelet count will usually drop back down to what it was before starting Revolade. The lower platelet count may increase the risk of bleeding or bruising. Your doctor will check your platelet count for at least 4 weeks after you stop taking Revolade.

➔ Tell your doctor if you have any bleeding or bruising after stopping Revolade.

Some people have **bleeding in the digestive system** after they stop taking peginterferon, ribavirin, and Revolade. Symptoms include:

- black tarry stools (discoloured bowel movements are a uncommon side effect that may affect up to 1 in 100 people)
- blood in your stools
- vomiting blood or something that looks like coffee grounds

➔ Tell your doctor immediately if you have any of these symptoms.

**The following side effects have been reported to be associated with treatment with Revolade in adult patients with ITP:**

**Very common side effects**

These may affect **more than 1 in 10** people:

- common cold
- feeling sick (nausea)
- diarrhoea
- cough
- infection in the nose, sinuses, throat and upper airways (upper respiratory tract infection)
- back pain
Very common side effects that may show up in blood tests:
• increased of liver enzymes (alanine aminotransferase (ALT))

Common side effects
These may affect up to 1 in 10 people:
• muscle pain, muscle spasm, muscle weakness
• bone pain
• heavy menstrual period
• sore throat and discomfort when swallowing
• eye problems including abnormal eye test, dry eye, eye pain and blurred vision
• vomiting
• flu (influenza)
• cold sore
• pneumonia
• irritation and inflammation (swelling) of the sinuses
• inflammation (swelling) and infection of the tonsils
• infection of the lungs, sinuses, nose and throat
• inflammation of the gum tissue
• loss of appetite
• feeling of tingling, prickling or numbness, commonly called “pins and needles”
• decreased skin sensations
• feeling drowsy
• ear pain
• pain, swelling and tenderness in one of your legs (usually the calf) with warm skin in the affected area (signs of a blood clot in a deep vein)
• localised swelling filled with blood from a break in a blood vessel (haematoma)
• hot flushes
• mouth problems including dry mouth, sore mouth, sensitive tongue, bleeding gums, mouth ulcers
• runny nose
• toothache
• abdominal pain
• abnormal liver function
• skin changes including excessive sweating, itching bumpy rash, red spots, changes in appearance of the skin
• hair loss
• foamy, frothy or bubbly-looking urine (signs of protein in urine)
• high temperature, feeling hot
• chest pain
• feeling weak
• problems sleeping, depression
• migraine
• decreased vision
• spinning sensation (vertigo)
• digestive wind/gas
Common side effects that may show up in blood test:
- decreased number of red blood cells (anaemia)
- decreased number of platelets (thrombocytopenia)
- decreased number of white blood cells
- decreased haemoglobin level
- increased number of eosinophils
- increased number of white blood cells (leukocytosis)
- increased levels of uric acid
- decreased levels of potassium
- increased levels of creatinin
- increased levels of alkaline phosphatase
- increase of liver enzymes (aspartate aminotransferase (AST))
- increase in blood bilirubin (a substance produced by the liver)
- increased levels of some proteins

Uncommon side effects
These may affect up to 1 in 100 people:
- allergic reaction
- interruption of blood supply to part of the heart
- sudden shortness of breath, especially when accompanied with sharp pain in the chest and/or rapid breathing, which could be signs of a blood clot in the lungs (see ‘Higher risk of blood clots’ earlier in section 4)
- the loss of function of part of the lung caused by a blockage in the lung artery
- possible pain, swelling, and/or redness around a vein which could be signs of blood clot in a vein
- yellowing of the skin and/or abdominal pain which could be signs of a blockage in the bile tract, lesion on liver, liver damage due to inflammation (see ‘Liver problems’ earlier in section 4)
- liver injury due to medication
- heart beating faster, irregular heartbeat, bluish discolouration of the skin, disturbances of heart rhythm (QT prolongation) which could be signs of a disorder related to the heart and the blood vessels
- blood clot
- flushing
- painful swollen joints caused by uric acid (gout)
- lack of interest, mood changes, crying that is difficult to stop, or occurs at unexpected times
- problems with balance, speech and nerve function, shaking
- painful or abnormal skin sensations
- paralysis on one side of the body
- migraine with aura
- nerve damage
- dilation or swelling of blood vessels that cause headache
- eye problems including increased production of tears, cloudy lens in the eye (cataract), bleeding of the retina, dry eyes
- problems with the nose, throat and sinuses, breathing problems when sleeping
- mouth and throat blisters/sores
- loss of appetite
- digestive system problems including frequent bowel movements, food poisoning, blood in stool, vomiting of blood
- rectal bleeding, change in stool colour, abdominal bloating, constipation
- mouth problems, including dry or sore mouth, tongue pain, bleeding gums, discomfort in mouth
- sunburn
- feeling hot, feeling anxious
• redness or swelling around a wound
• bleeding around a catheter (if present) into the skin
• sensation of a foreign body
• kidney problems including inflammation of the kidney, excessive urination at night, kidney failure, white cells in urine
• cold sweat
• generally feeling unwell
• infection of the skin
• skin changes including skin discolouration, peeling, redness, itching and sweating
• muscular weakness
• cancer of rectum and colon

Uncommon side effects that may show up in laboratory tests:
• changes in the shape of red blood cells
• presence of developing white blood cells which may be indicative of certain diseases
• increased number of platelets
• decreased levels of calcium
• decreased number of red blood cells (anaemia) caused by excessive destruction of red blood cells (haemolytic anaemia)
• increased number of myelocytes
• increased band neutrophils
• increased blood urea
• increased levels of protein in urine
• increased levels of blood albumin
• increased levels of total protein
• decreased levels of blood albumin
• increased pH of urine
• increased level of haemoglobin

The following additional side effects have been reported to be associated with treatment with Revolade in children (aged 1 to 17 years) with ITP:
If these side effects become severe, please tell your doctor, pharmacist or nurse.

Very common side effects
These may affect more than 1 in 10 children:
• infection in the nose, sinuses, throat and upper airways, common cold (upper respiratory tract infection)
• diarrhoea
• abdominal pain
• cough
• high temperature
• feeling sick (nausea)

Common side effects
These may affect up to 1 in 10 children:
• difficulty in sleeping (insomnia)
• toothache
• pain in the nose and throat
• itchy, runny or blocked nose
• sore throat, runny nose, nasal congestion and sneezing
• mouth problems including dry mouth, sore mouth, sensitive tongue, bleeding gums, mouth ulcers
The following side effects have been reported to be associated with treatment with Revolade in combination with peginterferon and ribavirin in patients with HCV:

**Very common side effects**

These may affect **more than 1 in 10** people:
- headache
- loss of appetite
- cough
- feeling sick (nausea), diarrhoea
- muscle pain, muscle weakness
- itching
- feeling tired
- fever
- unusual hair loss
- feeling weak
- flu-like illness
- swelling in the hands or feet
- chills

**Very common side effects that may show up in blood tests:**
- decreased number of red blood cells (anaemia)

**Common side effects**

These may affect **up to 1 in 10** people:
- infection of the urinary system
- inflammation of the nasal passages, throat and mouth, flu-like symptoms, dry mouth, sore or inflamed mouth, toothache
- weight loss
- sleep disorders, abnormal drowsiness, depression, anxiety
- dizziness, problems with attention and memory, change in mood
- decreased brain function further to liver injury
- tingling or numbness of the hands or feet
- fever, headache
- eye problems, including cloudy lens in the eye (cataract), dry eye, small yellow deposits in the retina, yellowing of the whites of the eye
- bleeding of the retina
- spinning sensation (vertigo)
- fast or irregular heartbeat (palpitations), shortness of breath
- cough bringing up phlegm, runny nose, flu (influenza), cold sore, sore throat and discomfort when swallowing
- digestive system problems, including vomiting, stomach pain, indigestion, constipation, swollen stomach, taste disturbances, piles (haemorrhoids), stomach pain/discomfort, swollen blood vessels and bleeding in the gullet (oesophagus)
- toothache
- liver problems, including tumour in the liver, yellowing of the whites of the eyes or skin (jaundice), liver injury due to medication (see 'Liver problems' earlier in section 4)
- skin changes, including rash, dry skin, eczema, redness of the skin, itching, excessive sweating, unusual skin growths, hair loss
- joint pain, back pain, bone pain, pain in extremities (arms, legs, hands or feet), muscle spasms
- irritability, generally feeling unwell, skin reaction such as redness or swelling and pain at the site of injection, chest pain and discomfort, build-up of fluid in the body or extremities causing swelling
- infection in the nose, sinuses, throat and upper airways, common cold (upper respiratory tract infection), inflammation of mucous membrane lining the bronchi
- depression, anxiety, sleep problems, nervousness
Common side effects that may show up in blood tests:
- increased blood sugar (glucose)
- decreased number of white blood cells
- decreased number of neutrophils
- decreased level of blood albumin
- decreased level of haemoglobin
- increased levels of blood bilirubin (a substance produced by the liver)
- changes in the enzymes that control blood clotting

Uncommon side effects
These may affect up to 1 in 100 people:
- painful urination
- disturbances of heart rhythm (QT prolongation)
- stomach flu (gastroenteritis), sore throat
- mouth blisters/sores, inflammation of the stomach
- skin changes including change in colour, peeling, redness, itching, lesion and night sweats
- blood clots in a vein to the liver (possible liver and/or digestive system damage)
- abnormal blood clotting in small blood vessels with kidney failure
- rash, bruising at the injection site, chest discomfort
- decreased number of red blood cells (anaemia) caused by excessive destruction of red blood cells (haemolytic anaemia)
- confusion, agitation
- liver failure

The following side effects have been reported to be associated with treatment with Revolade in patients with severe aplastic anaemia (SAA):
If these side effects become severe, please tell your doctor, pharmacist or nurse.

Very common side effects
These may affect more than 1 in 10 people.
- cough
- headache
- mouth and throat pain
- diarrhoea
- feeling sick (nausea)
- joint pain (arthritis)
- pain in extremities (arms, legs, hands and feet)
- dizziness
- feeling very tired
- fever
- chills
- itchy eyes
- blisters in the mouth
- bleeding of the gums
- abdominal pain
- muscle spasms

Very common side effects that may show up in the blood tests
- abnormal changes to the cells in your bone marrow
- increased levels of liver enzymes (aspartate aminotransferase (AST))
Common side effects
These may affect up to 1 in 10 people.

- anxiety
- depression
- feeling cold
- generally feeling unwell
- eye problems including vision problems, blurred vision, cloudy lens in the eye (cataract), spots or deposits in eye (vitreous floaters), dry eye, itchy eye, yellowing of the whites of the eyes or skin
- nose bleed
- digestive system problems including difficulty swallowing, mouth pain, swollen tongue, vomiting, loss of appetite, stomach pain/discomfort, swollen stomach, digestive wind/gas, constipation, intestinal motility disorder which can cause constipation, bloating, diarrhea and/or above mentioned symptoms, change in stool colour
- fainting
- skin problems including small red or purple spots caused by bleeding into the skin (petechiae) rash, itching, hives, skin lesion
- back pain
- muscle pain
- bone pain
- weakness (asthenia)
- swelling of the lower limbs due to the accumulation of fluids
- abnormal colored urine
- interruption in blood supply to spleen (splenic infarction)
- runny nose

Common side effects that may show up in the blood tests

- increase in enzymes due to muscle breakdown (creatine phosphokinase)
- accumulation of iron in the body (iron overload)
- decrease in blood sugar levels (hypoglycaemia)
- increased levels of blood bilirubin (a substance produced by the liver)
- decreased levels of white blood cells

Side effects with frequency not known
Frequency cannot be estimated from the available data

- skin discolouration
- darkening of the skin
- liver injury due to medication

Reporting of side effects
If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in Appendix V. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Revolade

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 carton and the sachet.

This medicine does not require any special storage conditions.

Do not open the foil sachets until ready for use. After mixing, Revolade oral suspension should be administered immediately, but may be stored for no more than 30 minutes at room temperature.
Do not throw away any medicines via wastewater or household waste. 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 Revolade contains
25 mg powder for oral suspension
The active substance in Revolade is eltrombopag. Each sachet contains a powder for reconstitution that delivers 32 mg eltrombopag olamine, equivalent to 25 mg of eltrombopag free acid.

The other ingredients are: mannitol, sucralose and xanthan gum.

What Revolade looks like and contents of the pack
Revolade 25 mg powder for oral suspension is available in kits containing 30 sachets; each sachet contains a reddish-brown to yellow powder. Each pack contains 30 sachets, one 40 ml reusable mixing bottle with lid and cap, and 30 single-use oral dosing syringes.

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This leaflet was last revised in.

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

Revolade 25 mg powder for oral suspension
(eltrombopag)

Read and follow these instructions to prepare a dose of Revolade and give it to the patient. If you have any questions, or if you damage or lose any of the supplies in your kit, ask your doctor, nurse or pharmacist for advice.

Before you start
Read these messages first

- Revolade powder must be mixed only with water at room temperature.

⚠️ Give the medicine to the patient immediately after you have mixed the powder with water. If you don’t use the medicine within 30 minutes of mixing it, you will need to mix a new dose. Dispose of the unused mixture in your household waste; don’t pour it down the drain.

- Try not to let the medicine touch your skin. If this happens, wash the area immediately with soap and water. If you get a skin reaction, or if you have any questions, contact the doctor.
- If you spill any powder or liquid, clean it up with a damp cloth (see step 14 of the instructions).
- Take care that children do not play with the bottle, cap, lid or syringes — there is a risk of choking if children put them in their mouth.

What you need
Each Revolade powder for oral suspension kit contains:

<table>
<thead>
<tr>
<th>30 sachets of powder</th>
<th>1 reusable mixing bottle with lid and cap (note — the mixing bottle may become stained)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 single-use oral dosing syringes</td>
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</table>

To prepare and give a dose of Revolade, you need:

- The correct number of sachets your doctor has prescribed (supplied in the kit)
- 1 reusable mixing bottle with lid and cap (supplied in the kit)
- 1 single-use oral dosing syringe (supplied in the kit)
- 1 clean glass or cup filled with drinking water (not supplied)
- scissors to cut sachet (not supplied)
Make sure that the bottle, cap and lid are dry before you use them.

To prepare the dose

1. Make sure the lid is not on the mixing bottle.

2. Fill the syringe with 20 ml drinking water from the glass or cup. A new single-use oral dosing syringe should be used to prepare each dose of Revolade for oral suspension.
   - Start with the plunger pushed all the way into the syringe.
   - Put the tip of the syringe all the way into the water
   - Pull back on the plunger to the 20 ml mark on the syringe.

3. Empty water into open mixing bottle
   - Slowly pushing the plunger all the way into the syringe.

4. Take only the prescribed number of sachets for one dose out of the kit.
   - 25 mg dose — 1 sachet
   - 50 mg dose — 2 sachets
   - 75 mg dose — 3 sachets

5. Add the powder from the prescribed number of sachets to the bottle.
   - Tap the top of each sachet to make sure the contents fall to the bottom
   - Cut off the top of each sachet with scissors
   - Empty all contents of each sachet into the mixing bottle
   - Make sure not to spill the powder outside the mixing bottle.

6. Screw the lid onto the mixing bottle. Make sure the cap is firmly pushed onto the lid, so it is closed.

7. Gently and slowly shake the mixing bottle backwards and forwards for at least 20 seconds to mix the water with the powder.
   - Don’t shake the bottle hard — that could make the medicine foam.

To give a dose to a patient

8. Make sure the plunger is pushed all the way into the syringe.
   - Pull cap off the lid of the mixing bottle
   - Insert the syringe tip into the hole in the bottle lid.

9. Fill the syringe with the medicine.
   - Turn the mixing bottle upside-down together with the syringe.
   - Pull back the plunger until all the medicine is in the syringe.
   - The medicine is a dark brown liquid.
   - Remove the syringe from the bottle.
10. **Give the medicine to the patient.** Do this straight away when you have mixed the dose.
   - Place the tip of the syringe into the inside of the patient’s cheek.
   - Slowly push the plunger all the way down so the medicine goes into the patient’s mouth.
   Make sure the patient has time to swallow.

**IMPORTANT:**
You have now given the patient nearly all of their dose of medicine. But there will still be some left in the bottle, even though you may not be able to see it.
Now **you need to complete steps 11 to 13** to make sure the patient receives all of the medicine.

11. **Again fill the syringe,** this time with 10 ml of drinking water.
   - Start with the plunger pushed all the way down into the syringe.
   - Put the tip of the syringe all the way into the water
   - Pull back on the plunger to the 10 ml mark on the syringe.

12. **Empty the water into the mixing bottle.**
   - Insert the tip of the syringe into the hole in the lid of the mixing bottle.
   - Slowly push the plunger all the way into the syringe.
   - Push the cap firmly back on to the lid of the mixing bottle.

13. **Repeat steps 7 to 10** – gently shake the bottle to mix the rest of the medicine, then give all the rest of the liquid to the patient.

**To clean up**

14. If you have spilt any powder or mixed medicine, **clean it up with a damp disposable cloth.** You may choose to wear disposable gloves so your skin doesn’t get stained.
   - Dispose of the cloth and gloves used to clean up the spillage in your household waste.

15. **Clean the mixing equipment.**
   - Throw away the used oral dosing syringe. A new oral dosing syringe should be used to prepare each dose of Revolade for oral suspension.
   - Rinse the mixing bottle and lid under running water. (The mixing bottle may become stained from the medicine. This is normal.)
   - Let all the equipment dry in the air.
   - Wash your hands with soap and water.

After you have used all 30 sachets in the kit, **dispose of the bottle.** Always start with a complete new kit for each 30 sachets.

Keep Revolade powder for oral suspension, including the dosing kit, and all medicines out of the reach of children.