PRODUCT MONOGRAPH INCLUDING PATIENT MEDICATION INFORMATION

PrTeva-Eltrombopag

Eltrombopag Tablets

Film-coated tablets, 25 mg and 50 mg Eltrombopag (as Eltrombopag Olamine), oral use

Thrombopoietin Receptor Agonist (B02BX05)

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RECENT MAJOR LABEL CHANGES

Not applicable

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Sections or subsections that are not applicable at the time of authorization are not listed.

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PART I: HEALTH PROFESSIONAL INFORMATION

1 INDICATIONS

- Teva-Eltrombopag (eltrombopag) tablets are indicated for the treatment of chronic immune thrombocytopenia (ITP) to increase platelet counts in adult and pediatric patients one year and older who have had an insufficient response to corticosteroids or immunoglobulins.
- Teva-Eltrombopag is indicated to increase platelet counts in thrombocytopenic patients with chronic hepatitis C virus (HCV) infection to allow the initiation and maintenance of interferon-based therapy.
- Teva-Eltrombopag is indicated for the treatment of adult patients with severe aplastic anemia (SAA) who have had an insufficient response to immunosuppressive therapy.

1.1 Pediatrics

Pediatrics (< 18 years): The safety and efficacy of Teva-Eltrombopag have not been established in pediatric ITP patients younger than 1 year. In pediatric ITP patients one year and older the long-term safety and efficacy of Teva-Eltrombopag have not been studied. The safety and efficacy of Teva-Eltrombopag in pediatric patients with chronic HCV or SAA have not been established.

1.2 Geriatrics

Geriatrics (≥ **65** years of age): Clinical studies of eltrombopag did not include sufficient numbers of patients aged 65 and older to determine whether they respond differently from younger patients. In general, caution should be exercised in the administration and monitoring of Teva-Eltrombopag in elderly patients, reflecting the greater frequency of decreased hepatic, renal or cardiac function and of concomitant disease or other drug therapy.

2 CONTRAINDICATIONS

- Teva-Eltrombopag is contraindicated in patients with severe hepatic impairment (Child-Pugh Class C) (see 7 Hepatic/Biliary/Pancreatic, Hepatic Impairment and Hepatotoxicity).
- Teva-Eltrombopag is contraindicated in patients who are hypersensitive to this drug or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container For a complete listing of excipients (see 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING). In patients with chronic hepatitis C virus (HCV) infection, the Product Monographs for both pegylated interferon and ribavirin should be consulted for relevant contraindications associated with the use of these products.

3 SERIOUS WARNINGS AND PRECAUTIONS BOX

Serious Warnings and Precautions

Teva-Eltrombopag should be used with caution in chronic hepatitis C patients with cirrhosis as it may

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increase the risk of hepatic decompensation and death when administered with pegylated interferon and ribavirin. Patients with low albumin levels (< 35 g/L) or Model for End-Stage Liver Disease (MELD) score ≥ 10 at baseline had a greater risk of hepatic decompensation. Patients with these characteristics should be closely monitored for signs and symptoms of hepatic decompensation (see 7 Hepatic/Biliary/Pancreatic, Hepatic Decompensation - Use with Interferon).

4 DOSAGE AND ADMINISTRATION

4.1 Dosing Considerations

Teva-Eltrombopag is only available as tablets and cannot be used in patients who are unable to swallow Teva-Eltrombopag tablets whole.

Chronic Immune Thrombocytopenia (ITP)

Teva-Eltrombopag (eltrombopag) treatment should be initiated and maintained by a physician who is experienced in the treatment of haematological diseases, who understands the benefits and risks associated with the treatment of ITP, and who is experienced in counselling patients for whom Teva-Eltrombopag is indicated.

Prior to prescribing Teva-Eltrombopag, physicians should:

- Ensure the eligibility of patients to meet the above criteria,
- Counsel each patient on the risks and benefits of Teva-Eltrombopag, and
- Ensure patients are able to swallow the Teva-Eltrombopag tablets whole (see **Administration** below).

Teva-Eltrombopag dosing regimens must be individualized based on the patient's platelet counts. The objective of treatment with Teva-Eltrombopag should not be to normalize platelet counts but to maintain platelet counts above the level for hemorrhagic risk (> 50×10^9 /L), and generally below 150 – 200 x 10^9 /L. Use the lowest effective dosing regimen to maintain platelet counts, as clinically indicated.

In most patients, measurable elevations in platelet counts take 1-2 weeks to occur (see 14 CLINICAL TRIALS).

Chronic Hepatitis C-related Thrombocytopenia

Teva-Eltrombopag is given in combination with pegylated interferon and ribavirin. Reference should be made to the full Product Monographs for each respective co-administered medicinal product for comprehensive details of administration. The directions regarding the dosage, dose adjustment guidelines in the event of toxicity and other relevant safety information or contraindications for pegylated interferon and ribavirin should be followed.

Teva-Eltrombopag should be used only in patients with chronic hepatitis C whose degree of thrombocytopenia prevents the initiation of interferon-based therapy and limits the ability to maintain interferon-based therapy.

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Use the lowest dose of Teva-Eltrombopag to achieve and maintain a platelet count necessary to initiate and maintain antiviral therapy. Dose adjustments are based upon the patient's platelet count response, see Table 2, below. Do not use Teva-Eltrombopag to normalize platelet counts. In clinical studies, platelet counts generally increased within 1 week of starting Teva-Eltrombopag.

The safety and efficacy of eltrombopag have not been established in combination with direct acting antiviral agents used in the treatment of chronic hepatitis C virus infection.

Severe Aplastic Anemia (SAA)

Use the lowest dose of Teva-Eltrombopag to achieve and maintain a hematologic response. Dose adjustments are based upon the platelet count. Do not use Teva-Eltrombopag to normalize platelet counts (see <u>7 Hematologic, Thrombotic or thromboembolic complications</u>). Hematologic response requires dose titration, generally up to 150 mg, and may take up to 16 weeks after starting Teva-Eltrombopag (see <u>14.1 Severe Aplastic Anemia</u>).

4.2 Recommended Dose and Dosage Adjustment Chronic Immune Thrombocytopenia (ITP)

Initial Dose Regimen

Adults and Pediatric Patients Aged 6 years and above:

The recommended starting dose of Teva-Eltrombopag is 50 mg once daily. For ITP patients of East-/Southeast-Asian ancestry aged 6 and above, initiate Teva-Eltrombopag at a reduced dose of 25 mg once daily (see 4 DOSAGE AND ADMINISTRATION).

Pediatric Patients Aged 1 to < 6 years:

The recommended starting dose of Teva-Eltrombopag is 25 mg once daily.

Monitoring and Dose Adjustment

Adults and Pediatric Patients Aged 1 to < 18 years:

If after 2 to 3 weeks of initial therapy, the platelet counts are below the clinically indicated levels (e.g. 50×10^9 /L), the dose may be increased to a maximum of 75 mg once daily (see Table 1).

A dose reduction should be considered with platelet counts increasing to over 150×10^9 /L. At platelet counts over 200×10^9 /L dose reduction is recommended (see Table 1).

Teva-Eltrombopag should be interrupted if platelet counts increase to $> 300 \times 10^9/L$. Once the platelet count is $< 150 \times 10^9/L$; reinitiate therapy at a reduced dose. If platelet counts remain at $> 300 \times 10^9/L$ after 2 weeks of therapy of the lowest dose of Teva-Eltrombopag, discontinue treatment (see Table 1).

Table 1: Dose Adjustments of Teva-Eltrombopag in ITP patients

Platelet Count Result	Dose Adjustment or Response
< 50 x 10 ⁹ /L following at least	Increase daily dose by 25 mg to a maximum of 75 mg/day.
2 weeks of Teva-Eltrombopag	

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Platelet Count Result	Dose Adjustment or Response
	For patients taking 25 mg once every other day, increase dose to 25
	mg once daily.
\geq 50 x 10 ⁹ /L to \leq 200 x 10 ⁹ /L	Use lowest dose of Teva-Eltrombopag and/or concomitant ITP
	treatment to maintain platelet counts that avoid or reduce bleeding.
$> 200 \times 10^9 / L \text{ to } \le 300 \times 10^9 / L$	Decrease the daily dose by 25 mg. Wait 2 weeks to assess the effects
at any time	of this and any subsequent dose adjustments.
	For patients taking 25 mg once daily, consideration should be given
	to dosing at 25 mg once every other day.
> 300 x 10 ⁹ /L	Stop Teva-Eltrombopag. Increase the frequency of platelet
	monitoring to twice weekly.
	Once the platelet count is < 150 x 10 ⁹ /L, reinitiate therapy at a daily
	dose reduced by 25 mg.
	For patients taking 25 mg once daily, consideration should be given
	to reinitiating therapy at 25 mg once every other day.
> 300 x 10 ⁹ /L after 2 weeks of	Discontinue Teva-Eltrombopag.
therapy at lowest dose of	
Teva-Eltrombopag	

The standard dose adjustment, whether decreased or increased, would be 25 mg once daily. However, in a few patients an alternate dosing of different tablet strengths on different days may be required.

After any Teva-Eltrombopag dose adjustment, platelet counts should be monitored at least once weekly for 2 to 3 weeks. Wait for at least 2 weeks to see the effect of any dose increase on the patient's platelet response prior to considering another dose adjustment. In patients with liver disease, wait at least 3 weeks before considering dose adjustment (see All Indications, Hepatic Impairment, below).

Monitor clinical hematology and liver tests regularly throughout therapy with Teva-Eltrombopag and modify the dose of Teva-Eltrombopag based on platelet counts as outlined in Table 1. During therapy with Teva-Eltrombopag, assess complete blood counts (CBC), including platelet count and peripheral blood smears, weekly until a stable platelet count ($\geq 50 \times 10^9/L$ for at least 4 weeks) has been achieved. Obtain CBC including platelet count and peripheral blood smears, monthly thereafter.

Teva-Eltrombopag can be administered in addition to other ITP medicinal products. Modify the dose regimen of concomitant ITP medicinal products, as medically appropriate, to avoid excessive increases in platelet counts during therapy with Teva-Eltrombopag.

Discontinuation

Discontinue Teva-Eltrombopag if the platelet count does not increase to a level sufficient to avoid clinically important bleeding after 4 weeks of therapy with Teva-Eltrombopag at the maximum daily dose of 75 mg. Excessive platelet count responses, as outlined in Table 1, or important liver test abnormalities also necessitate discontinuation of Teva-Eltrombopag (see <u>7 WARNINGS AND PRECAUTIONS</u>).

The reoccurrence of thrombocytopenia is possible upon discontinuation of treatment.

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Chronic Hepatitis C-related Thrombocytopenia

Adults (≥ 18 years of age):

Teva-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.

The dose of Teva-Eltrombopag should be adjusted in 25 mg increments every 2 weeks as necessary to achieve the target platelet count required to initiate antiviral therapy (see Table 2). Platelet counts should be monitored every week prior to starting antiviral therapy.

During antiviral therapy, the dose of Teva-Eltrombopag should be adjusted as necessary to avoid dose reduction of peginterferon. Platelet counts should be monitored weekly during antiviral therapy until a stable platelet count is achieved. CBC's, including platelet counts and peripheral blood smears should be obtained monthly thereafter.

Do not exceed a dose of 100 mg Teva-Eltrombopag once daily.

For specific dosage instructions for peginterferon alfa or ribavirin, refer to their respective Product Monographs.

Table 2: Dose Adjustments of Teva-Eltrombopag in HCV patients during antiviral therapy

Platelet Count Result	Dose Adjustment or Response
< 50 x 10 ⁹ /L following at least	Increase daily dose by 25 mg increments every 2 weeks as necessary
2 weeks of therapy	to a maximum of 100 mg/day.
	For patients taking 25 mg once every other day, increase the dose to
	25 mg once daily before increasing the dose amount by 25 mg.
\geq 50 x 10 ⁹ /L to \leq 150 x 10 ⁹ /L	Maintain the lowest dose of Teva-Eltrombopag to achieve these
	values so as to avoid dose reductions of peginterferon.
$> 150 \times 10^9 / L \text{ to } \le 200 \times 10^9 / L$	Decrease the daily dose by 25 mg. Wait 2 weeks to assess the effects
	of this and any subsequent dose adjustments.
	For patients taking 25 mg Teva-Eltrombopag once daily,
	consideration should be given to dosing at 25 mg once every other
	day.
> 200 x 10 ⁹ /L	Stop Teva-Eltrombopag. Increase the frequency of platelet
	monitoring to twice weekly.
	Once the platelet count is $< 150 \times 10^9/L$, reinitiate therapy at a lower daily dose.
	For patients taking 25 mg Teva-Eltrombopag once daily,
	consideration should be given to reinitiating therapy at 25 mg once
	every other day.
> 200 x 10 ⁹ /L after 2 weeks of	Discontinue Teva-Eltrombopag.
therapy at lowest dose of	
Teva-Eltrombopag	

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Discontinuation

When Teva-Eltrombopag is given in combination with antiviral therapies reference should be made to the full Product Monograph of the respective co-administered medicinal products for comprehensive details of administration. The directions regarding the dose, dose adjustment guidelines in the event of toxicity and other relevant safety information or contraindications for the respective antiviral medicinal products should be followed.

In patients with HCV genotype 1/4/6, independent of the decision to continue interferon therapy, discontinuation of Teva-Eltrombopag therapy should be considered in patients who do not achieve virological response at week 12. If HCV-RNA remains detectable after 24 weeks of treatment, Teva-Eltrombopag therapy should be discontinued.

Teva-Eltrombopag treatment should be terminated when antiviral therapy is discontinued. Excessive platelet count responses, as outlined in Table 2 or important liver test abnormalities may also necessitate discontinuation of Teva-Eltrombopag (see <u>7 WARNINGS AND PRECAUTIONS</u>).

Severe Aplastic Anemia (SAA)

Adults (≥ 18 years of age):

Teva-Eltrombopag should be initiated at a dose of 50 mg once daily. For SAA patients of East-/Southeast-Asian ancestry or those with mild or moderate hepatic impairment (Child-Pugh Class A, B), Teva-Eltrombopag should be initiated at a reduced dose of 25 mg once daily (see <u>4 DOSAGE AND ADMINISTRATION</u>).

The dose of Teva-Eltrombopag should be initiated in 50 mg increments every 2 weeks as necessary to achieve the target platelet count $\geq 50 \times 10^9 / L$. For patients with mild or moderate hepatic impairment or patients of East-/Southeast-Asian ancestry, increase the dose initially by 25 mg to achieve a 50 mg daily dose before considering further dose increases. Do not exceed a dose of 150 mg daily. Clinical hematology and liver tests should be monitored regularly throughout therapy with Teva-Eltrombopag and the dosage regimen of Teva-Eltrombopag should be modified based on platelet counts as outlined in Table 3.

Table 3: Dose Adjustments of Teva-Eltrombopag in SAA patients

Platelet Count Result	Dose Adjustment or Response
< 50 x 10 ⁹ /L following at least	Increase daily dose by 50 mg every 2 weeks as necessary to a
2 weeks of Teva-Eltrombopag	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.
\geq 50 x 10 ⁹ /L to \leq 200 x 10 ⁹ /L	Maintain the lowest dose of Teva-Eltrombopag to achieve these
	values.
$> 200 \times 10^9 / L \text{ to } \le 300 \times 10^9 / L$	Decrease the daily dose by 50 mg (or by 25 mg if these values are
at any time	achieved with a 50 mg daily dose – i.e. in the East-/Southeast Asian
	ancestry or in patients with liver disease). Wait 2 weeks to assess the
	effects of this and any subsequent dose adjustments.
> 300 x 10 ⁹ /L	Stop Teva-Eltrombopag for at least one week.

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Platelet Count Result	Dose Adjustment or Response
	Once the platelet count is < 150 x 10 ⁹ /L, reinitiate therapy at a dose
	reduced by 50 mg.
> 300 x 10 ⁹ /L after 2 weeks of	Discontinue Teva-Eltrombopag.
therapy at lowest dose of	
Teva-Eltrombopag	

Tapering for Tri-lineage (white blood cells, red blood cells, and platelets) Responders: Once platelet count is $> 50 \times 10^9$ /L, hemoglobin is > 100 g/L in the absence of red blood cell (RBC) transfusions, and absolute neutrophil count (ANC) is $> 1 \times 10^9$ /L for more than 8 weeks, the dose of Teva-Eltrombopag should be reduced by up to 50%. If counts stay stable after 8 weeks at the reduced dose, then Teva-Eltrombopag should be discontinued and blood counts monitored as clinically indicated. If platelet counts drop to $< 30 \times 10^9$ /L, hemoglobin to < 90 g/L, or ANC to $< 0.5 \times 10^9$ /L, Teva-Eltrombopag may be reinitiated at the previous dose.

Discontinuation

If no hematologic response has occurred after 16 weeks of therapy with Teva-Eltrombopag, therapy should be discontinued. Discontinuation of Teva-Eltrombopag should be considered if new cytogenetic abnormalities are observed (see **8.2 Clinical Trial Adverse Drug Reactions - Severe Aplastic Anemia**). Excessive platelet count responses (as outlined in Table 3) or important liver test abnormalities also necessitate discontinuation of Teva-Eltrombopag (see **7 Hepatic/Biliary/Pancreatic, Hepatotoxicity**).

All indications

Pediatrics (< 18 years of age): The safety and efficacy of eltrombopag have not been established in pediatric ITP patients younger than 1 year. The safety and efficacy of eltrombopag in pediatric patients with chronic HCV or SAA have not been established.

Hepatic Impairment: Teva-Eltrombopag is contraindicated in patients with severe hepatic impairment (Child-Pugh Class C) (see <u>2 CONTRAINDICATIONS</u>) and caution should be exercised when administering Teva-Eltrombopag to patients with mild or moderate hepatic impairment, since exposure to eltrombopag increases with increasing degrees of hepatic dysfunction (see <u>10.3 Pharmacokinetics</u>, <u>Special Populations and Conditions - Hepatic Impairment</u>).

The risk of thromboembolic events of the portal venous system has been found to be increased in patients with chronic liver disease treated with 75 mg eltrombopag once daily for two weeks in preparation for invasive procedures. Teva-Eltrombopag therefore should not be used in ITP or SAA patients with hepatic impairment (Child-Pugh Class A and B) unless the expected benefit outweighs the identified risk of portal venous thrombosis (see **7 WARNINGS AND PRECAUTIONS**).

If the use of Teva-Eltrombopag is deemed necessary in adult ITP or SAA patients with liver impairment (Child-Pugh Class A and B), the starting dose must be 25 mg once daily. Attempts to maintain platelet counts below 200×10^9 /L should be carried out in these patient populations. There are no data in pediatric patients with hepatic impairment.

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After initiating Teva-Eltrombopag or following any dose increase in ITP patients with liver impairment (Child-Pugh Class A and B), wait a minimum of 3 weeks before increasing the dose.

Thrombocytopenic patients with chronic HCV should initiate Teva-Eltrombopag at the usual dose of 25 mg once daily (see 14.1 Pharmacokinetic Interactions).

Renal Impairment: No dose adjustment is generally necessary in patients with renal impairment. Teva-Eltrombopag should be used in patients having impaired renal function with caution and close monitoring, for example by testing serum creatinine and/or performing urine analysis (see 10.3
Pharmacokinetics, Special Populations and Conditions - Renal Impairment).

There are limited data with the use of eltrombopag in patients with severe renal impairment (creatinine clearance < 30 mL/min), therefore it is generally not recommended for use in these patients (see **7 Renal** and **10.3 Pharmacokinetics, Special Populations and Conditions - Renal Impairment**).

Asian Patients: Teva-Eltrombopag should be initiated at a reduced dose of 25 mg once daily is recommended for SAA and adult and pediatric (aged 6 to < 18 years) ITP patients of East-/Southeast-Asian ancestry (see 10.3 Pharmacokinetics, Special Populations and Conditions - Ethnic Origin).

No dosage adjustment is necessary for chronic HCV patients of East-/Southeast-Asian ancestry. Teva-Eltrombopag should be initiated at the recommended dose of 25 mg once daily (see <u>10.3</u> <u>Pharmacokinetics, Special Populations and Conditions</u>).

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

Elderly: There are limited data on the use of eltrombopag in patients aged 65 years and older and no clinical experience in patients aged over 85 years. In the clinical studies of eltrombopag, overall no clinically significant differences in the 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 **10.3 Pharmacokinetics, Special Populations and Conditions**).

Food Interactions: Teva-Eltrombopag should be taken at least **two hours before or four hours** after antacids, dairy products, or mineral supplements, or any other products containing polyvalent cations (e.g. aluminium, calcium, iron, magnesium, selenium and zinc).

Teva-Eltrombopag may be taken with food containing little (< 50 mg) or preferably no calcium (see 14.1 Pharmacokinetic Interactions).

4.4 Administration

Patients should swallow the tablets whole, with some water. They should NOT crush tablets and then mix with food or liquids.

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4.5 Missed Dose

If a dose of Teva-Eltrombopag is missed, the patient should be advised to take it as soon as they remember, and then continue with the next dose at the regular interval. Two doses should not be taken at the same time to make up for a missed dose.

5 OVERDOSAGE

In the event of overdose, platelet counts may increase excessively and result in thrombotic/ thromboembolic complications. In case of an overdose, oral administration of a metal cation-containing preparation, such as calcium, aluminium or magnesium preparation at the earliest possible opportunity, to chelate eltrombopag and thus limit absorption should be considered. Platelet counts should be closely monitored. Treatment with Teva-Eltrombopag should be reinitiated in accordance with dosing and administration recommendations (see 4 DOSAGE AND ADMINISTRATION). Because eltrombopag is not significantly renally excreted and is highly bound to plasma proteins, hemodialysis would not be expected to be an effective method to enhance the elimination of eltrombopag.

For management of a suspected drug overdose, contact your regional poison control centre.

In the clinical studies, there was one report of overdose where the patient ingested 5,000 mg of eltrombopag. Reported adverse events included mild rash, transient bradycardia, fatigue and elevated transaminases. 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 patient's platelet count increased to a maximum of 929 x $10^9/L$ at 13 days following the ingestion. After 2 months follow-up, all events resolved without sequelae.

6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table 4: Dosage Forms, Strengths, Composition and Packaging

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Oral	Each tablet contains either 25 mg or 50 mg of eltrombopag as eltrombopag olamine	Microcrystalline cellulose, mannitol, povidone, sodium starch glycolate, colloidal anhydrous silica, talc, magnesium stearate, hypromellose, titanium dioxide, macrogol. Teva-Eltrombopag 50 mg tablets also contains iron oxide yellow and iron oxide red

Teva-Eltrombopag (eltrombopag) tablets are available as round, biconvex, film-coated tablets available in blister packs of 14 or 28.

Teva-Eltrombopag 25 mg tablets are white film-coated tablets debossed with '25' on one side and bisect on the other. Teva-Eltrombopag 50 mg tablets are light brown film-coated tablets debossed with '50' on one side and bisect on the other.

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7 WARNINGS AND PRECAUTIONS

Please see 3 SERIOUS WARNINGS AND PRECAUTIONS BOX.

General

The diagnosis of ITP in pediatric patients as well as adults and elderly patients should be confirmed by exclusion of other clinical entities presenting with thrombocytopenia. The effectiveness and safety of eltrombopag have not been established for use in other thrombocytopenic conditions including chemotherapy-induced thrombocytopenia and myelodysplastic syndromes (MDS). There is a theoretical concern that thrombopoietin receptor agonists, including eltrombopag, may stimulate the progression of existing hematopoietic malignancies such as MDS (see Hematologic, Hematologic malignancies below). 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 cell.

In patients with chronic hepatitis C virus (HCV) infection, the Product Monographs for both pegylated interferon and ribavirin should be consulted for relevant warnings and precautions associated with the use of these products.

The safety and efficacy of eltrombopag has not been established in combination with direct acting antiviral agents used in the treatment of chronic hepatitis C virus (see 9.4 Drug-Drug Interactions).

Carcinogenesis and Mutagenesis

Cytogenetic abnormalities: 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 SAA clinical study with eltrombopag, the incidence of new cytogenetic abnormalities was observed in 19% of patients [8/43 (where 5 of them had changes in chromosome 7)]. The median time on study to a cytogenetic abnormality was 2.9 months.

For SAA patients who have an insufficient response to immunosuppressive therapy, bone marrow examination with aspirations for cytogenetics is recommended prior to initiation of Teva-Eltrombopag, at 3 months of treatment and 6 months thereafter. Discontinuation of Teva-Eltrombopag should be considered if new cytogenetic abnormalities are observed.

Hematologic malignancies: 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. For TPO-R agonists there is a theoretical concern that they may stimulate the progression of existing hematopoietic malignancies such as myelodysplasia (MDS). The effectiveness and safety of eltrombopag have not been established for the treatment of thrombocytopenia due to MDS.

Increased risk of death and progression of MDS to acute myeloid leukemia (AML) were observed in a randomized, double-blind, placebo-controlled, multicenter study in patients with International Prognostic Scoring System (IPSS) intermediate-1, intermediate-2 or high risk MDS with thrombocytopenia, receiving azacitidine in combination with either eltrombopag or placebo. This study was terminated due to lack of efficacy and safety reasons, including increased progression to AML.

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Patients received eltrombopag or placebo at a starting dose of 200 mg once daily, up to a maximum of 300 mg once daily, in combination with azacitidine for at least six cycles. The incidence of death (overall survival) was 32% (57/179) in the eltrombopag arm versus 29% (51/177) in the placebo arm (HR [95% CI] = 1.42 [0.97, 2.08], showing an increased relative risk of death in this study by 42% in the eltrombopag arm). The incidence of progression to AML was 12% (21/179) in the eltrombopag arm versus 6% (10/177) in the placebo arm (HR [95% CI] = 2.66 [1.312, 5.41], showing an increased relative risk of progression to AML in this study by 166% in the eltrombopag arm).

In clinical studies with eltrombopag in SAA, 5% of patients (4/73) were diagnosed with MDS. The median time to diagnosis was 3 months from the start of eltrombopag treatment.

Prior to initiation of Teva-Eltrombopag, examine the peripheral blood smear closely to establish a baseline level of cellular morphologic abnormalities. Following identification of a stable dose of Teva-Eltrombopag, examine peripheral blood smears and complete blood counts (CBC) monthly 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), discontinue treatment with Teva-Eltrombopag and consider a bone marrow biopsy.

Discontinuation of Teva-Eltrombopag should be considered if hematologic malignancies develop.

Hematologic

Thrombotic or thromboembolic complications: Platelet counts above the normal range may present an increased risk of thrombotic complications. Thromboembolic events (TEE) were observed at low and normal platelet counts.

The risk of TEE, such as portal vein thrombosis, has been found to be increased in patients with chronic liver disease treated with 75 mg eltrombopag once daily for two weeks in preparation for invasive procedures. Therefore, Teva-Eltrombopag should not be used in ITP and SAA patients with hepatic impairment (Child-Pugh Class A and B) unless the expected benefit outweighs the identified risk of portal venous thrombosis, an adverse event which may lead to death (see 4 DOSAGE AND ADMINISTRATION).

In adult clinical studies with eltrombopag in ITP (n = 763), 42 patients experienced a total of 53 TEEs (a patient may have experienced more than 1 TEE), which included deep vein thrombosis (n = 10), pulmonary embolism (n = 7), cerebral infarction (n = 7), thrombophlebitis superficial (n=6), hemiparesis (n=4), acute myocardial infarction (n = 3), myocardial infarction (n=3), transient ischemic attack (n = 3), pulmonary infarction (n=2), cerebral venous thrombosis (n = 1), embolic cerebral infarction (n = 1), embolism (n = 1), coronary artery occlusion (n=1), thrombophlebitis (n=1), thrombosis (n=1), transverse sinus thrombosis (n = 1) and venous thrombosis limb (n=1). TEEs were observed at low and normal platelet counts.

In the two controlled Phase III studies in thrombocytopenic patients with HCV receiving interferon-based therapy (n = 1439), 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

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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 occurrence of TEE was observed. Patients with low albumin levels (\leq 35 g/L), MELD score \geq 10, or age greater than 60 years demonstrated an increased risk of TEE. Teva-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 TEEs.

During clinical study and post-market experience, cases of thrombotic microangiopathy with acute renal failure were reported in association with eltrombopag administration in ITP patients. Renal function recovered partially with discontinuation of eltrombopag and in one case renal function worsened on treatment. In some of these reported cases of thrombotic microangiopathy with acute renal failure the patients had concurrent risk factors for thromboembolism (e.g. antiphospholipid syndrome and systemic lupus erythematosus).

Caution should be used when administering Teva-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 and systemic lupus erythematosus), 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 Teva-Eltrombopag if the platelet count exceeds the target levels (see <u>4 DOSAGE AND ADMINISTRATION</u>). The risk-benefit balance should be considered in patients at risk of TEEs of any aetiology.

Re-occurrence of thrombocytopenia following discontinuation of Teva-Eltrombopag:

Thrombocytopenia is likely to reoccur upon discontinuation of treatment with Teva-Eltrombopag in ITP patients. Following discontinuation of eltrombopag, platelet counts returned to baseline levels within 2 weeks in the majority of patients (see 14 CLINICAL TRIALS), which increases the bleeding risk and in some cases may lead to bleeding. This risk is increased if Teva-Eltrombopag is discontinued in the presence of anticoagulants or antiplatelet agents. It is recommended that, if treatment with Teva-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 Teva-Eltrombopag.

Bone marrow reticulin formation and risk of bone marrow fibrosis: Thrombopoietin receptor (TPO-R) agonists, including eltrombopag, may increase the risk for development or progression of reticulin fibers within the bone marrow.

In a longitudinal 2-year bone marrow study with 162 previously treated adults with ITP, where serial bone marrow biopsies from baseline and after 1 and 2 years of treatment with eltrombopag were compared, results showed increases from baseline in bone marrow fibrosis grade and development of collagen fibres while on treatment in some patients (see 8.3 Less Common Clinical Trial Adverse Reactions - Bone Marrow Reticulin Formation). In the 4 patients who had post-treatment biopsies performed to assess the reversibility in fibrosis, 3 had post-treatment biopsies that showed a lower bone marrow fibrosis grade after discontinuation of treatment. The clinical relevance of these findings

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has not been established. None of the patients had clinical symptoms typical of bone marrow dysfunction or abnormalities of clinical concern reported in the complete blood count or peripheral blood smear.

In the adult ITP clinical studies 3 patients discontinued eltrombopag treatment due to bone marrow reticulin deposition.

Prior to initiation of Teva-Eltrombopag, examine the peripheral blood smear closely to establish a baseline level of cellular morphologic abnormalities. Following identification of a stable dose of Teva-Eltrombopag, examine peripheral blood smears and complete blood counts (CBC) monthly 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), discontinue treatment with Teva-Eltrombopag and consider a bone marrow biopsy, including staining for fibrosis.

Hepatic/Biliary/Pancreatic

Hepatotoxicity: Eltrombopag administration can cause abnormal liver function, severe hepatotoxicity and potentially fatal liver injury.

Cases of severe drug-induced liver injury have been reported during clinical studies and post-marketing. During clinical study, the elevation of liver laboratory values typically occurred within three months of initiation of eltrombopag; in all cases the events resolved following discontinuation of eltrombopag.

In the controlled clinical studies in adult and pediatric patients (aged 1 to 17 years) with chronic ITP who received eltrombopag (see $\frac{14 \text{ CLINICAL TRIALS}}{14 \text{ CLINICAL TRIALS}}$), increases in serum alanine aminotransferase (ALT), aspartate aminotransferase (AST) and indirect (unconjugated) bilirubin were observed. These findings were mostly mild (Grade 1-2), reversible and not accompanied by clinically significant symptoms that would indicate impaired liver function. Across three placebo-controlled Phase III studies in adults with chronic ITP, one patients in the placebo group and one patients in the eltrombopag group experienced a Grade 4 liver test abnormality. In two placebo-controlled studies in pediatric patients (aged 1 to 17 years) with chronic ITP, ALT \geq 3 times the upper limit of normal (x ULN) was reported in 5 (4.7%) patients and no (0%) patients in the eltrombopag and placebo groups, respectively. Two of the 5 eltrombopag patients (one White; one South East Asian) had increases in ALT \geq 5 x ULN. Most hepatobiliary laboratory abnormalities and hepatobiliary adverse events occurred in patients 6-11 years of age. Among 171 pediatric patients who received at least one dose of eltrombopag at any time in either study (median duration of treatment of 171 days), there were an additional 7 patients with ALT \geq 3x ULN, among them 5 patients (1 White; 4 Asian) with increases in ALT \geq 5 x ULN.

In clinical studies in patients with chronic hepatitis C, 11 patients treated with eltrombopag (1%) experienced drug-induced liver injury. In two controlled clinical studies in thrombocytopenic patients with HCV, ALT or AST \geq 3 x the upper limit of normal (ULN) were reported in 34% and 38% of the eltrombopag and placebo groups, respectively. Eltrombopag administration in combination with

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peginterferon/ribavirin therapy is associated with 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, monotherapy refractory SAA study, adverse events due to transaminase increases were reported in 26% (11/43) of patients. Concurrent ALT or AST > 3 x ULN with total bilirubin > 1.5 x ULN were reported in 5% of patients. ALT or AST > 3 x ULN were reported in 21% of patients and > 5 x ULN in 9% of patients. Total bilirubin > 1.5 x ULN occurred in 14% of patients.

Serum ALT, AST and bilirubin should be measured prior to initiation of Teva-Eltrombopag, every 2 weeks during the dose adjustment phase, and monthly following establishment of a stable dose. Eltrombopag inhibits UGT1A1 and OATP1B1 (see 14.1 Detailed Pharmacology), which may lead to indirect hyperbilirubinemia. 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, stabilize, or return to baseline levels. Teva-Eltrombopag should be discontinued if ALT levels increase (\geq 3x ULN) in patients with normal liver function or \geq 3x baseline (or > 5 x ULN, whichever is the lower) in patients with elevations in transaminases before treatment and that 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.

Hepatic Impairment: Caution should be exercised when administering Teva-Eltrombopag to patients with any degree of hepatic disease, since exposure to eltrombopag increases with increasing degrees of hepatic impairment (see 10.3 Pharmacokinetics, Special Populations and Conditions - Hepatic Impairment). Teva-Eltrombopag should not be used in ITP and SAA patients with mild or moderate hepatic impairment (Child-Pugh Class A and B) unless the expected benefit outweighs the identified risk of portal venous thrombosis, which can lead to death. Use a lower starting dose if Teva-Eltrombopag is administered to these patients (see 4.2. Recommended Dose and Dosage Adjustment - Hepatic Impairment). No dosage adjustment is necessary for HCV patients with mild or moderate hepatic impairment.

Teva-Eltrombopag is contraindicated in patients with severe hepatic impairment (see <u>2</u> <u>CONTRAINDICATIONS</u>). Due to limited data in patients with severe hepatic impairment (Child-Pugh Class C), a risk-benefit profile could not be established in this patient population.

Hepatic Decompensation – **Use with Interferon**: Chronic hepatitis C virus infected patients with liver cirrhosis may be at risk of hepatic decompensation and death when receiving therapy with pegylated interferon and ribavirin. In patients with low albumin levels (< 35 g/L) or with a Model for End-Stage Liver Disease (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 without advanced liver disease.

In the two controlled clinical studies in patients with chronic hepatitis C virus infection and thrombocytopenia, adverse events related to hepatic decompensation (ascites, hepatic encephalopathy, variceal hemorrhage, and spontaneous bacterial peritonitis) occurred more frequently in the eltrombopag arm (11%) than in the placebo arm (6%).

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Teva-Eltrombopag should only be administered to such patients after careful consideration of the expected benefits compared to the associated risks. Patients with these characteristics should be closely monitored for signs and symptoms of hepatic decompensation.

Monitoring and Laboratory Tests

Complete Blood Counts (CBC): Monitor CBC, including platelet counts and peripheral blood smears, prior to initiation, throughout, and following discontinuation of therapy with Teva-Eltrombopag. Prior to the initiation of Teva-Eltrombopag, examine the peripheral blood differential to establish the extent of red and white blood cell abnormalities. Obtain CBC, including platelet counts and peripheral blood smears, weekly during the dose adjustment phase of therapy with Teva-Eltrombopag and then monthly following establishment of a stable dose of Teva-Eltrombopag. The dose of Teva-Eltrombopag may need to be modified based on platelet counts (see 4 DOSAGE AND ADMINISTRATION). Examine the monthly peripheral blood smears and CBC for new or worsening morphologic abnormalities or cytopenia(s); if present, discontinue treatment with Teva-Eltrombopag and consider a bone marrow biopsy, including staining for fibrosis. Obtain CBC, including platelet counts, weekly for 4 weeks following discontinuation of Teva-Eltrombopag.

Liver Tests: Monitor serum liver tests (ALT, AST, and bilirubin) prior to initiation of Teva-Eltrombopag, then every 2 weeks during the dose adjustment phase, and monthly following establishment of a stable dose. If bilirubin is elevated, perform fractionation. If abnormal levels are detected, repeat the tests within 3 to 5 days. If the abnormalities are confirmed, monitor serum liver tests weekly until the abnormalities resolve, stabilize, or return to baseline levels. Discontinue Teva-Eltrombopag if important liver test abnormalities occur (see 4 DOSAGE AND ADMINISTRATION).

Bone Marrow Examination: For ITP patients, 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 cell. For SAA patients who have an insufficient response to immunosuppressive therapy, bone marrow examination with aspirations for cytogenetics is recommended prior to initiation of Teva-Eltrombopag, at 3 months of treatment and 6 months thereafter. Discontinuation of Teva-Eltrombopag should be considered if new cytogenetic abnormalities are observed.

Refer to the pegylated interferon and ribavirin Product Monographs for directions regarding dose reduction or discontinuation, as well as pregnancy testing requirements.

Ophthalmologic

Cataracts: In the two controlled clinical Phase III studies in thrombocytopenic adult patients with HCV (n=1439), receiving interferon therapy, progression of pre-existing baseline cataract(s) or incident cataract was reported in 8% of patients treated with eltrombopag and 5% of patients treated with placebo. In one uncontrolled extension study in adult patients with chronic ITP, cataract developed in 9% of patients and was considered a serious adverse event in 5% of patients. Cataracts were observed in toxicology studies of eltrombopag in rodents (see 16 Repeat Dose Toxicity).

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In two placebo-controlled studies in pediatric patients (aged 1 to 17 years) with chronic ITP, two cataract events occurred in patients who received at least one dose of eltrombopag at any time on study. In studies in pre-weaning juvenile rats treated with non-tolerated doses and younger mice treated with tolerated doses, ocular opacities have been observed (see 16 Juvenile Toxicity).

Perform a baseline ocular examination prior to administration of Teva-Eltrombopag, and regularly monitor patients for signs and symptoms of cataracts during therapy with Teva-Eltrombopag.

Renal

Renal Impairment: Patients with renal impairment may have decreased exposure to eltrombopag (see **10.3 Pharmacokinetics, Special Populations and Conditions - Renal Impairment**).

Teva-Eltrombopag should be used with caution in patients with impaired renal function, and close monitoring performed, for example, by testing serum creatinine and/or urine analysis (see <u>4.2</u> <u>Recommended Dose and Dosage Adjustment - Renal Impairment</u>).

There are limited data with the use of eltrombopag in patients with severe renal impairment (creatinine clearance < 30mL/min), therefore it is generally not recommended for use in these patients.

Reproductive Health: Female and Male Potential

Fertility

Eltrombopag did not affect female or male fertility in rats at doses 2 and 3 times respectively, the human clinical exposure based on AUC (see <u>16 Reproductive and Developmental Toxicity</u>).

7.1 Special Populations

7.1.1 Pregnant Women

Eltrombopag has not been studied in pregnant women. Teva-Eltrombopag should only be used during pregnancy if the expected benefit justifies the potential risk to the fetus.

Eltrombopag was studied in pregnant rats and rabbits, and caused a low incidence of cervical ribs (a fetal variation) along with reduced fetal body weight at doses that were maternally toxic (see 16
Reproductive and Developmental Toxicity).

In patients with chronic hepatitis C virus infection, Teva-Eltrombopag must be used in combination with pegylated interferon and ribavirin. Teratogenic and/or embryocidal effects have been demonstrated in all animal species exposed to ribavirin, while interferons have been shown to have abortifacient effects in animals. Refer to the prescribing information for pegylated interferon and ribavirin for full details.

7.1.2 Breast-feeding

It is not known whether eltrombopag is excreted in human milk. Studies in animals have shown that eltrombopag is likely secreted into milk (see 16 NON-CLINICAL TOXICOLOGY); therefore a risk to the

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suckling child cannot be excluded. Teva-Eltrombopag is not recommended for nursing mothers unless the expected benefit justifies the potential risk to the infant.

7.1.3 Pediatrics

Pediatrics (< 18 years of age): The safety and efficacy of eltrombopag have not been established in pediatric ITP patients younger than 1 year. Data are very limited for pediatric patients with chronic ITP between 1 and 2 years of age. Cataracts were observed in clinical studies with pediatric ITP patients and in juvenile rodents in an age-dependant manner with the youngest animals having the highest incidence. There are insufficient clinical data to determine whether pediatric patients are at an increased risk of eltrombopag-induced cataracts. For all patients, regardless of age, perform a baseline ocular examination prior to administration of Teva-Eltrombopag, and regularly monitor for signs and symptoms of cataracts during therapy with Teva-Eltrombopag.

The safety and efficacy of eltrombopag in pediatric patients with chronic HCV or SAA have not been established.

7.1.4 Geriatrics

Geriatrics (> 65 years of age): Clinical studies of eltrombopag did not include sufficient numbers of patients aged 65 and older to determine whether they respond differently from younger patients. In general, caution should be exercised in the administration and monitoring of Teva-Eltrombopag in elderly patients, reflecting the greater frequency of decreased hepatic, renal, or cardiac function and of concomitant disease or other drug therapy.

8 ADVERSE REACTIONS

8.1 Adverse Reaction Overview

In the adult ITP clinical studies, hemorrhage was the most common serious adverse reaction and most hemorrhage reactions followed discontinuation of eltrombopag. Other serious adverse reactions included liver test abnormalities and thromboembolic complications.

Based on an analysis of adult chronic ITP patients receiving eltrombopag in 3 controlled and 2 uncontrolled clinical studies, the median duration of exposure to eltrombopag was 379 days and patient year's exposure was 584 in this study population. Based on a final analysis of adult chronic ITP patients receiving eltrombopag in one uncontrolled extension study, the median daily dose was 51 mg and the median duration of exposure was 865 days. The safety of eltrombopag in pediatric patients (aged 1 to 17 years) with previously treated chronic ITP has been demonstrated in a pooled safety population of 157 patients, 107 treated with eltrombopag and 50 treated with placebo. The median exposure to eltrombopag in the randomized period was 91 days. The most common adverse reactions observed with eltrombopag (≥ 10% and greater than placebo) were upper respiratory tract infection and nasopharyngitis. The number of patients with adverse events leading to discontinuation from study treatment was 1.9% versus 2.0%, eltrombopag versus placebo, respectively.

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In the HCV clinical studies, the safety of eltrombopag in combination with interferon and ribavirin is supported by a clinical database of 1576 eltrombopag-treated adult patients enrolled in two pivotal, placebo-controlled, phase III studies and one supportive phase II study. The total patient years of exposure to eltrombopag in this study population was 674.06. The most commonly reported adverse events were fatigue, headache, myalgia, fever, and rigors. The Product Monographs for both pegylated interferon and ribavirin should be consulted for relevant safety information.

In the SAA pivotal phase II study (n=43), nausea, fatigue, cough, diarrhea, and headache were the most common adverse reactions reported. The most common serious adverse events reported were febrile neutropenia, sepsis and viral infection.

8.2 Clinical Trial Adverse Reactions

Clinical trials were conducted under very specific conditions. The adverse reaction rates observed in the clinical trials; therefore, may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials is useful for identifying and approximating rates of adverse drug reactions in the real-world use.

Adult Chronic Immune Thrombocytopenia (ITP)

The safety of eltrombopag has been demonstrated in two randomised, double-blind, placebo controlled studies in 211 adults with previously treated chronic ITP (see <u>14 CLINICAL TRIALS</u>). Most adverse reactions associated with eltrombopag were mild to moderate in severity, early in onset and rarely treatment limiting. The most common adverse events were nausea, vomiting, diarrhea and headache. The drug-related adverse events occurring in \geq 1% of adult patients, and which were more common in the treatment group as compared to placebo in the Phase III, double-blind, placebo-controlled 6 week study, TRA100773B, and 6 month study, RAISE (TRA102537), are presented in Table 5 and Table 6, respectively.

The safety of eltrombopag over long-term dosing was evaluated in one single arm, open-label, extension study, EXTEND (TRA105325), in 302 adult patients with previously treated chronic ITP who were previously enrolled in an eltrombopag study. Overall, the safety data from this study reflect the known safety profile of eltrombopag. Drug-related adverse events occurring in \geq 3% of patients are presented in Table 7.

Table 5: Drug-Related Adverse Events ≥ 1% in Adult ITP Patients over 6 weeks (Study TRA10073B)

	Treatment Group, n (%)	
Body System / Adverse Event	Eltrombopag	Placebo
	N = 76	N = 38
Cardiac disorders		
Sinus tachycardia	1 (1)	0
Gastrointestinal		
Nausea	4 (5)	0
Vomiting	2 (3)	0
Abdominal distension	1 (1)	0
Constipation	1 (1)	0

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	Treatment Group, n (%)	
Body System / Adverse Event	Eltrombopag	Placebo
	N = 76	N = 38
Diarrhea	1 (1)	0
Hemorrhoids	1 (1)	0
Hepatobiliary disorders		
Hepatic function abnormal	1 (1)	0
General disorders and administration site condit	ions	
Fatigue	2 (3)	0
Malaise	1 (1)	0
Investigations		
Protein total increased	3 (4)	1 (3)
ALT increased	2 (3)	0
AST increased	2 (3)	0
Metabolism and nutrition disorders		
Hypokalemia	1 (1)	0
Musculoskeletal and connective tissue disorders		
Myalgia	3 (4)	0
Arthralgia	1 (1)	0
Bone Pain	1 (1)	0
Nervous system disorders		
Headache	4 (5)	1 (3)
Psychiatric disorders		
Sleep disorder	1 (1)	0
Skin and subcutaneous tissue disorders		
Alopecia	1 (1)	0
Night sweats	1 (1)	0

Table 6: Drug-Related Adverse Events ≥ 1% in Adult ITP Patients over 6 months (RAISE)

	Treatment Group, n (%)	
Body System / Adverse Event	Eltrombopag	Placebo
	N = 135	N = 61
Eye disorders		
Dry eye	2 (1)	0
Gastrointestinal		
Nausea	6 (4)	0
Constipation	3 (2)	1 (2)
Diarrhea	4 (3)	0
Dry mouth	3 (2)	0
Vomiting	2 (1)	0
General disorders and administration site condi	tions	
Feeling hot	2 (1)	0
Hepatobiliary disorders		

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	Treatment Group, n (%)	
Body System / Adverse Event	Eltrombopag	Placebo
	N = 135	N = 61
Hepatic function abnormal	2 (1)	0
Investigations		
ALT increased	6 (4)	2 (3)
Hemoglobin increased	2 (1)	0
Transaminases increased	2 (1)	0
Musculoskeletal and connective tissue disorders	•	
Arthralgia	2 (1)	0
Nervous system disorders		
Headache	15 (11)	5 (8)
Paraesthesia	3 (2)	0
Skin and subcutaneous tissue disorders		
Hyperhidrosis	3 (2)	0
Rash	2 (1)	0

EXTEND (TRA105325)

Table 7: Drug-Related Adverse Events > 3% in Adult Chronic ITP Patients in EXTEND (Safety Population)

Preferred Term	Eltrombopag N = 302
Any AE; n (%)	133 (44)
Headache	30 (10)
Alanine aminotransferase increased	16 (5)
Aspartate aminotransferase increased	15 (5)
Cataract	15 (5)
Fatigue	14 (5)
Blood bilirubin increased	12 (4)
Nausea	11 (4)
Hyperbilirubinaemia	9 (3)
Diarrhoea	8 (3)

The safety of eltrombopag was also assessed in all patients treated in 7 adult ITP clinical studies (N=763 eltrombopag-treated patients and 179 placebo-treated patients). Thromboembolic events were reported in 6% of eltrombopag-treated patients versus 0% of placebo-treated patients and thrombotic microangiopathy with acute renal failure was reported in 1.2% of eltrombopag-treated patients versus 0% of placebo-treated patients. Dry mouth was reported in 1% of eltrombopag-treated patients versus 0% of placebo-treated patients. Back pain was reported in 10.5% of eltrombopag-treated patients versus 1.7% of placebo-treated patients.

Chronic Hepatitis C Virus Infection

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ENABLE 1 (N=716, 715 treated with eltrombopag) and ENABLE 2 (N=805) were randomized, double-blind, placebo-controlled, multicentre studies to assess the efficacy and safety of eltrombopag in thrombocytopenic patients with HCV infection who were otherwise eligible to initiate antiviral therapy (see 14 CLINICAL TRIALS).

In the HCV studies, the safety population consisted of all randomized patients who received double-blind study drug during Part 2 of ENABLE 1 (eltrombopag N=449, placebo N=232) and ENABLE 2 (eltrombopag N=506, placebo N=252).

Table 8 presents the most common adverse reactions, as determined by higher incidence in the eltrombopag arm and reported during the double-blind phase of ENABLE 1 and ENABLE 2 (experienced by \geq 3% of patients receiving eltrombopag, compared to placebo).

Table 8: Adverse Drug Reactions (Grades 2-4) > 3% in Two Placebo-Controlled Studies in Adults with Chronic Hepatitis C Virus (ENABLE 1 and ENABLE 2)

Body System / Adverse Event	Eltrombopag	Placebo
2007 070007 1000000 200	N = 955	N = 484
ANY EVENT	769 (81%)	392 (81%)
Blood and lymphatic system disorders		
Anaemia	236 (25%)	112 (23%)
Lymphopenia	26 (3%)	10 (2%)
General disorders and administration site condi	tions	
Fatigue	104 (11%)	45 (9%)
Pyrexia	71 (7%)	33 (7%)
Asthenia	54 (6%)	16 (3%)
Influenza like illness	52 (5%)	23 (5%)
Oedema peripheral	38 (4%)	5 (1%)
Irritability	25 (3%)	6 (1%)
Chills	24 (3%)	10 (2%)
Gastrointestinal disorders		
Diarrhea	60 (6%)	15 (3%)
Ascites	51 (5%)	14 (3%)
Abdominal pain	30 (3%)	11 (2%)
Vomiting	22 (2%)	8 (2%)
Abdominal pain upper	18 (2%)	6 (1%)
Investigations		
Blood bilirubin increased	58 (6%)	11 (2%)
White blood cell count decreased	44 (5%)	21 (4%)
Weight decreased	43 (5%)	14 (3%)
Haemoglobin decreased	41 (4%)	16 (3%)
Infections and Infestations		
Urinary tract infection	34 (4%)	12 (2%)
Bronchitis	19 (2%)	6 (1%)

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Pady System / Adverse Event	Eltrombopag	Placebo
Body System / Adverse Event	N = 955	N = 484
Pneumonia	15 (2%)	8 (2%)
Psychiatric disorders		
Insomnia	51 (5%)	22 (5%)
Depression	38 (4%)	18 (4%)
Nervous system disorders		
Headache	54 (6%)	24 (5%)
Hepatic encephalopathy	21 (2%)	1 (<1%)
Skin and subcutaneous tissue disorders		
Pruritus	26 (3%)	7 (1%)
Rash	26 (3%)	9 (2%)
Hepatobiliary disorders		
Hyperbilirubinaemia	68 (7%)	14 (3%)
Musculoskeletal and connective tissue disorders		
Arthralgia	27 (3%)	14 (3%)
Myalgia	26 (3%)	5 (1%)
Back Pain	21 (2%)	4 (<1%)
Respiratory, thoracic and mediastinal disorders		
Cough	30 (3%)	7 (1%)
Dyspnea	21 (2%)	7 (1%)
Metabolism and nutrition disorders		
Decreased appetite	30 (3%)	15 (3%)
Neoplasms benign, malignant and unspecified (in	cl cysts and polyps)	
Hepatic neoplasm, malignant	34 (4%)	13 (3%)

In ENABLE 1 and ENABLE 2, progression of pre-existing baseline cataract(s) or new case of cataract were reported in 8 % of patients treated with eltrombopag and 5 % of patients treated with placebo during the double blind-phase.

The most common adverse events occurring during open-label treatment with eltrombopag in Part 1 of ENABLE 1 and 2 (see 14 CLINICAL TRIALS) were headache, fatigue, nausea, diarrhea, and insomnia.

The safety of eltrombopag was also assessed in all patients treated with eltrombopag in the two controlled studies, including patients who initially received eltrombopag in the pre-antiviral treatment phase of the study and were later randomized to the placebo arm (N=1520 eltrombopag -treated patients). Thromboembolic events (including portal vein thrombosis) was reported in 3% of eltrombopag-treated patients and 1% of placebo-treated patients and hepatic failure was reported in 1% of eltrombopag-treated patients and <1% of placebo-treated patients.

Severe Aplastic Anemia (SAA)

In the single-arm phase II study, 43 patients with severe aplastic anemia received eltrombopag with 11 patients (26%) treated for > 6 months and 7 patients (16%) treated for > 1 year (see $\frac{14 \text{ CLINICAL}}{\text{TRIALS}}$). The most common adverse reactions (\geq 20%) were nausea, fatigue, cough, diarrhea, and

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headache.

Table 9: Adverse Reactions (> 5%) from the Single Arm Phase II Study in Adults with Severe Aplastic Anemia (Study ELT112523)

Adverse Reaction	Eltrombopag (n = 43) (%)
Gastrointestinal disorders	V
Nausea	33
Diarrhea	21
Abdominal pain	12
Abdominal discomfort	9
Gingival bleeding	9
Oral mucosal blistering	9
Oral pain	7
Vomiting	7
General disorders and administrative conditions	
Fatigue	30
Pyrexia	14
Asthenia	9
Chills	9
Edema peripheral	7
Respiratory, thoracic and mediastinal disorders	
Cough	23
Oropharyngeal pain	14
Rhinorrhea	12
Dyspnea exertional	9
Epistaxis	9
Hepatobiliary disorders	
Hyperbilirubinemia*	7
Nervous System disorders	
Headache	21
Dizziness	14
Musculoskeletal and connective tissue disorders	
Pain in extremity	19
Arthralgia	12
Muscle spasms	12
Back pain	9
Investigations	·
Transaminases increased	12
Liver function test abnormal	9
Alanine aminotransferase increased	7
Aspartate aminotransferase increased	7
Blood creatine phosphokinase increased	7

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Adverse Reaction	Eltrombopag (n = 43) (%)		
Skin and subcutaneous tissue disorders			
Petechiae	7		
Rash	7		
Eye disorders			
Dry eye	9		
Psychiatric disorders			
Insomnia	9		
Anxiety	7		
Depression	7		
Metabolism and nutrition disorders			
Iron overload	7		

^{*} Hyperbilirubinemia includes preferred terms of blood bilirubin increased and hyperbilirubinemia

The most common serious adverse events reported were febrile neutropenia, sepsis and viral infection.

Four patients (9%) discontinued treatment with eltrombopag due to cataract, abdominal discomfort, acute hepatitis B and sepsis.

8.2.1 Clinical Trial Adverse Reactions – Pediatrics

Pediatric Chronic Immune Thrombocytopenia (ITP)

PETIT2 (TRA115450)

The data described below reflect median exposure to eltrombopag of 91 days for 92 pediatric patients (aged 1 to 17 years) with chronic ITP in the Randomized Period of the randomized, placebo-controlled Phase III PETIT2 study (see 14 CLINICAL TRIALS).

The overall incidence of adverse events (AEs) was higher in eltrombopag patients (81%) than in placebo patients (72%). The incidence of Grade 3 AEs was 13% versus 7% in the eltrombopag group versus the placebo group, respectively. Grade 3 events were predominantly hepatobiliary AEs in the eltrombopag group and bleeding AEs in the placebo group. Adverse drug reactions in the adult ITP study population (Tables 5, 6 and 7) may also occur in the pediatric ITP population.

Table 10 presents the most common adverse reactions (experienced by greater than or equal to 3% of pediatric patients one year and older) in study PETIT2, with a higher incidence for eltrombopag versus placebo.

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Table 10: Adverse Reactions (≥ 3%) with a Higher Incidence for Eltrombopag versus Placebo in Pediatric Patients 1 Year and Older with Chronic ITP in Study PETIT2 (Randomized Period Safety Population)

	Treatment Group, n (%)		
Body System / Adverse Reaction	Eltrombopag	Placebo	
	N = 63	N = 29	
Gastrointestinal			
Abdominal Pain	6 (9.5)	0	
Diarrhea	3 (4.8)	0	
Toothache	3 (4.8)	0	
General disorders and administration site condit	ions		
Pyrexia	4 (6.3)	1 (3.4)	
Infections and Infestations			
Nasopharyngitis	11 (17.5)	2 (6.9)	
Upper respiratory tract infection	7 (11.1)	1 (3.4)	
Investigations			
AST increased	4 (6.3)	0	
ALT increased	3 (4.8)	0	
Metabolism and nutrition disorders			
Decreased appetite	3 (4.8)	0	
Vitamin D deficiency	3 (4.8)	0	
Respiratory, thoracic and mediastinal disorders			
Cough	7 (11.1)	0	
Oropharyngeal pain	3 (4.8)	0	
Skin and subcutaneous tissue disorders			
Rash	3 (4.8)	0	

8.3 Less Common Clinical Trial Adverse Reactions

Clinical Trial Adverse Drug Reactions occurring in < 1% of Adult ITP Patients

The drug-related adverse events occurring in < 1% of eltrombopag treated patients (with a higher incidence compared to placebo) in the phase III, double-blind, placebo-controlled studies are presented below. The events are categorized by body system.

Blood and lymphatic system disorders: bone marrow reticulin increased

Cardiac Disorders: tachycardia

Ear and labyrinth disorders: vertigo

Eye Disorders: eye pain, lacrimation increased, lenticular opacities, retinal depigmentation hemorrhage, visual acuity reduced

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Gastrointestinal: abdominal pain, abdominal pain upper, dyspepsia, feces discoloured, glossodynia, oral discomfort

General disorders and administration site conditions: asthenia, inflammation of wound, sensation of foreign body

Hepatobiliary disorders: hepatic lesions, hyperbilirubinemia

Infections and infestations: oral herpes, pharyngitis, sinusitis

Investigations: blood albumin increased, blood alkaline phosphatase increased, blood creatinine increased, hepatic enzyme increased

Metabolism and nutrition disorder: decreased appetite

Neoplasms, benign, malignant and unspecified (incl. cysts and polyps): Rectosigmoid cancer

Nervous system disorder: dysaesthesia, dysgeusia, hypoasthesia, somnolence

Respiratory, thoracic and mediastinal disorder: oropharyngeal blistering, pulmonary embolism, pulmonary infarction, sinus disorder

Skin and subcutaneous tissue disorders: cold sweat, pruritus, pruritus generalized, skin exfoliation, swelling face, urticaria

Vascular disorders: deep vein thrombosis, hot flush, thrombophlebitis superficial

In an additional clinical study in patients with chronic ITP, one patient treated with eltrombopag (< 1%) experienced drug-induced liver injury.

Bone Marrow Reticulin Formation:

Serial bone marrow biopsies were collected in a longitudinal 2-year bone marrow study with 162 previously treated adults with ITP. Results showed increases in bone marrow fibrosis grade from baseline in 34% of patients and the presence of collagen in 6 patients after 1 or 2 years of eltrombopag treatment. The shifts from baseline in patients with available biopsies are presented in Table 11. Collagen was not present in any patients at baseline. Four patients had post-treatment biopsies performed to assess the reversibility in fibrosis. Three of the 4 post-treatment biopsies showed a lower bone marrow fibrosis grade after discontinuation of treatment and 1 showed no change in bone marrow fibrosis grade.

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Table 11: Shifts from Baseline to On-Treatment Assessment of European Consensus Scale

	Maximum grade during time interval (N = 162)						
Time interval	n	Baseline grade	MF-0	MF-1	MF-2	MF-3	Total
1 year	127	MF-0	82 (65)	33 (26)	2 (2)	2 (2)	119 (94)
		MF-1	3 (2)	2 (2)	1 (<1)	0	6 (5)
		MF-2	0	0	0	0	0
		MF-3	0	0	0	0	0
		Missing	2 (2)	0	0	0	2 (2)
		Total	87 (69)	35 (28)	3 (2)	2 (2)	127 (100)
2 year	93	MF-0	79 (85)	9 (10)	0	0	88 (95)
		MF-1	2 (2)	1 (1)	0	0	3 (3)
		MF-2	0	0	0	0	0
		MF-3	0	0	0	0	0
		Missing	2 (2)	0	0	0	2 (2)
		Total	83 (89)	10 (11)	0	0	93 (100)

European Consensus scale, MF. MF-0: Scattered linear reticulin with no intersections corresponding to normal bone marrow; MF-1: Loose network of reticulin with many intersections, especially in perivascular areas; MF-2: Diffuse and dense increase in reticulin with extensive intersections, occasionally only focal bundles of collagen and/or focal osteosclerosis; MF-3: Diffuse and dense increase in reticulin with extensive intersections with coarse bundles of collagen, often associated with significant osteosclerosis.

Clinical Trial Adverse Drug Reactions occurring in ≤ 5% of SAA Patients

The drug-related adverse events occurring in \leq 5% of eltrombopag treated severe aplastic anemia patients in the single arm phase II study in adults with severe aplastic anemia are presented below.

Blood and lymphatic system disorders: neutropenia, splenic infarction

Eye Disorders: cataract, ocular icterus, vision blurred, visual impairment, vitreous floaters

Gastrointestinal: constipation, abdominal distension, dysphagia, feces discolored, flatulence, gastrointestinal motility disorder, swollen tongue

General disorders and administration site conditions: malaise, pain

Hepatobiliary disorders: hyperbilirubinemia, jaundice

Investigations: blood bilirubin increased

Metabolism and nutrition disorder: decreased appetite, hypoglycemia, increased appetite

Musculoskeletal and connective tissue disorders: bone pain, myalgia

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Nervous system disorder: dizziness postural, syncope

Psychiatric disorders: middle insomnia

Renal and urinary disorders: chromaturia

Skin and subcutaneous tissue disorders: pruritus, urticaria, rash macular, skin lesion

In the single-arm phase II study in SAA, patients had bone marrow aspirates evaluated for cytogenetic abnormalities. Eight patients had a new cytogenetic abnormality reported, including 5 patients who had changes in chromosome 7. Three patients were diagnosed with MDS following treatment with eltrombopag.

8.3.1 Less Common Clinical Trial Adverse Reactions – Pediatrics

Clinical Trial Adverse Reactions occurring in < 3% of Pediatric Patients

The adverse reactions occurring in < 3% of pediatric patients (with a higher incidence on eltrombopag compared to placebo) in study PETIT2 are presented below. The events are categorized by body system.

Blood and lymphatic system disorders: anemia

Ear and labyrinth disorders: motion sickness

Eye Disorders: retinal vascular disorder

Gastrointestinal disorders and administration site conditions: constipation, dyspepsia, lip hemorrhage, mouth hemorrhage, nausea

General disorders and administration site conditions: pain, asthenia, non-cardiac chest pain

Immune system disorders: allergy to chemicals

Infections and infestations: bronchitis, cellulitis, furuncle, influenza, lice infestation, meningitis aseptic, pharyngitis, pneumonia, pneumonia fungal, subcutaneous abscess, viral pharyngitis

Injury, poisoning and procedural complications: contusion, excoriation, joint injury, soft tissue injury

Investigations: activated partial thromboplastin time prolonged, blood alkaline phosphatase increased, alanine aminotransferase abnormal, aspartate aminotransferase abnormal, platelet count increased

Musculoskeletal and connective tissue disorders: back pain, groin pain, osteoporosis

Nervous system disorders: paresthesia, somnolence

Psychiatric disorders: bulimia nervosa

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Respiratory, thoracic and mediastinal disorders: bronchospasm, rhinorrhea, tonsillar hypertrophy

Skin and subcutaneous tissue disorders: dermatitis allergic, rash pruritic

8.5 Post-Market Adverse Reactions

The following adverse drug reactions have been reported during post-approval use of eltrombopag. These include spontaneous case reports as well as serious adverse events from registries, investigator sponsored studies, clinical pharmacology studies and exploratory studies in unapproved indications. Because they are reported voluntarily from a population of uncertain size, it is not possible to reliably estimate their frequency. Adverse drug reactions are listed according to system organ classes in MedDRA.

Skin and subcutaneous tissue disorders: Skin discolouration (In patients taking eltrombopag reversible skin discolouration including hyperpigmentation and skin yellowing was observed at eltrombopag doses as low as 50 mg per day; scleral discolouration was also reported in association with skin discoloration in some patients. Skin discolouration was particularly observed in patients taking eltrombopag for unapproved indications where doses higher than 100 mg per day were administered).

9 DRUG INTERACTIONS

9.2 Drug Interactions Overview

Clinically significant drug interactions involving glucuronidation are not anticipated due to limited contribution of individual UGT enzymes in the glucuronidation of eltrombopag and potential comedications. No clinically significant interactions are expected when eltrombopag and CYP450 substrates, inducers or inhibitors are co-administered (see **14.1 Pharmacokinetic Interactions**).

9.4 Drug-Drug Interactions

The drugs listed in this table are based on either drug interaction case reports or studies, or potential interactions due to the expected magnitude and seriousness of the interaction (i.e., those identified as contraindicated).

Table 12: Established or Potential Drug-Drug Interactions

Drug Class	Source of Evidence	Effect	Clinical Comment
Drugs that may have the	heir plasma co	ncentrations altered by eltrombo	pag
HMG CoA reductase inhibitors/OATP1B1 and BCRP substrates	т/ст	In vitro studies demonstrated that eltrombopag is not a substrate for the organic anion transporter polypeptide, OATP1B1, but is an inhibitor of	When co-administered with Teva-Eltrombopag, a reduced dose of statins should be considered and careful monitoring should

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Drug Class	Source of Evidence	Effect	Clinical Comment
		this transporter. In vitro studies also demonstrated that eltrombopag is a breast cancer resistance protein (BCRP) substrate and inhibitor. When eltrombopag and rosuvastatin were coadministered in a clinical drug interaction study (see 14.1 Pharmacokinetic Interactions) there was increased plasma rosuvastatin exposure. Interactions are also expected with other HMG CoA reductase inhibitors, including pravastatin, simvastatin and lovastatin, however, clinically significant interactions are not expected between eltrombopag and atorvastatin or fluvastatin.	be undertaken. In clinical studies with eltrombopag, a dose reduction of rosuvastatin by 50% was recommended for coadministration of rosuvastatin and eltrombopag. Concomitant administration of Teva-Eltrombopag and other OATP1B1 and BCRP substrates should be undertaken with caution.
Cyclosporine	CT CT	Co-administration of Teva- Eltrombopag with cyclosporine may cause a decrease in the concentration of eltrombopag (see 14.1 Pharmacokinetic Interactions), though the exact mechanism is unknown	Caution should be used when co-administration of Teva-Eltrombopag with cyclosporine takes place. Platelet count should be monitored at least weekly for 2 to 3 weeks in order to ensure appropriate medical management of the dose of Teva-Eltrombopag when cyclosporine therapy is initiated or discontinued.
Lopinavir/ritonavir	СТ	Co-administration of Teva- Eltrombopag with lopinavir/ritonavir (LPV/RTV) may cause a decrease in the concentration of eltrombopag (see 14.1 Pharmacokinetic Interactions).	Caution should be used when co-administration of Teva-Eltrombopag with LPV/RTV takes place. Platelet count should be monitored at least weekly for 2 to 3 weeks in order to ensure appropriate medical management of the dose of

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Drug Class	Source of Evidence	Effect	Clinical Comment
			Teva-Eltrombopag when lopinavir/ritonavir therapy is initiated or discontinued.
Polyvalent cations (chelation), such as aluminium, calcium, iron, magnesium, selenium and zinc	СТ	Eltrombopag chelates with polyvalent cations (see 14.1 Pharmacokinetic Interactions).	Teva-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 (see 4 DOSAGE AND ADMINISTRATION, and 14.1 Pharmacokinetic Interactions).
Peginterferon alfa- 2a/b and ribavirin therapy	СТ	Co-administration of peginterferon alfa 2a (PEGASYS*) or 2b (PEGETRON*) and ribavirin did not affect eltrombopag exposure in 2 randomized, double-blind, placebo-controlled studies with adult patients with chronic hepatitis C.	It is not anticipated that the plasma concentrations of eltrombopag will be altered by co-administration of peginterferon alfa-2a/b and ribavirin therapy.
HCV protease inhibito	rs	·	
Boceprevir and telaprevir	СТ	A study in 56 healthy volunteers was conducted with eltrombopag and the HCV protease inhibitors boceprevir and telaprevir. Coadministration of eltrombopag with either telaprevir or boceprevir did not alter plasma concentrations of eltrombopag. Eltrombopag did not affect plasma concentrations of telaprevir. Eltrombopag did not affect the AUC or Cmax of boceprevir, but reduced the CTby 32% (see 14.1 Pharmacokinetic Interactions).	It is not anticipated that co- administration of eltrombopag and boceprevir or telaprevir will alter the plasma concentration of these drugs.

Legend: CT = Clinical Trial; T = Theoretical

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9.5 Drug-Food Interactions

Administration of a single 50 mg-dose of eltrombopag tablet with a standard high-calorie, high-fat breakfast that included dairy products reduced plasma eltrombopag concentrations. Food low in calcium (< 50 mg calcium) did not significantly impact plasma eltrombopag exposure, regardless of calorie or fat content (see 4 DOSAGE AND ADMINISTRATION and 14.1 Pharmacokinetic Interactions).

9.6 Drug-Herb Interactions

Interactions with herbal products have not been established.

9.7 Drug-Laboratory Test Interactions

Interference with serological testing

Eltrombopag is highly colored and 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 eltrombopag. If the laboratory results and clinical observations are inconsistent, re-testing using another method may help in determining the validity of the result.

10 CLINICAL PHARMACOLOGY

10.1 Mechanism of Action

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

10.2 Pharmacodynamics

Eltrombopag differs from TPO with respect to the effects on platelet aggregation. Unlike TPO, eltrombopag treatment of normal human platelets does not enhance adenosine diphosphate (ADP)-induced aggregation or induce P-selectin expression, nor does it antagonize platelet aggregation induced by ADP or collagen.

10.3 Pharmacokinetics

The pharmacokinetic (PK) parameters of eltrombopag after administration of an eltrombopag oral dose to adult patients with ITP are shown in Table 13.

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Table 13: Steady-State Plasma Eltrombopag, Pharmacokinetic Parameters in Adults with Immune Thrombocytopenia

Eltrombopag Dose (once daily)	N	C _{max} (mcg/mL)	AUC _(0-T) (mcg.hr/mL)
50 mg	34	8.01	108
	3 .	(6.73, 9.53)	(88, 134)
75 mg	26	12.7	168
	26	(11.0, 14.5)	(143, 198)

Data presented as geometric mean (95% CI). AUC_(0-T) 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 adults in a population PK analysis.

Plasma eltrombopag C_{max} and $AUC_{(0-T)}$ estimates for patients with HCV enrolled in the Phase III studies are presented for each dose studied in Table 14.

Table 14: Steady-State Plasma Eltrombopag Pharmacokinetic Parameters in Patients with Chronic HCV

Eltrombopag Dose (once daily)	N	C _{max} (mcg/mL)	AUC _(0-T) (mcg.hr/mL)
25 mg	220	6.40	118
	330	(5.97, 6.86)	(109, 128)
50 mg	119	9.08	166
		(7.96, 10.35)	(143, 192)
75 mg	45	16.71	301
	45	(14.26, 19.58)	(250, 363)
100 mg	96	19.19	354
		(16.81, 21.91)	(304, 411)

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

Absorption: Eltrombopag is absorbed with a peak concentration occurring 2 to 6 hours after oral administration. Administration of eltrombopag concomitantly with antacids, dairy products, mineral supplements or other products containing polyvalent cations significantly reduces eltrombopag exposure (see <u>9 DRUG INTERACTIONS</u>). 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%). Eltrombopag is not a substrate for P-glycoprotein or OATP1B1.

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Metabolism: Eltrombopag is primarily metabolized 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, each accounting for < 10% of the plasma radioactivity, arising from glucuronidation and oxidation were also detected. Based on a human study with radiolabeled eltrombopag, it is estimated that approximately 20% of a dose is metabolized by oxidation. *In vitro* studies identified CYP1A2 and CYP2C8 as the isoenzymes responsible for oxidative metabolism, uridine diphosphoglucuronyl transferase UGT1A1 and UGT1A3 as the isozymes responsible for glucuronidation, and that bacteria in the lower gastrointestinal tract may be responsible for the cleavage pathways.

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

Special Populations and Conditions

Pediatrics: The pharmacokinetics of eltrombopag have been evaluated in a population pharmacokinetic analysis which included 168 pediatric 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 pediatric and adult patients. Pediatric ITP patients of East-/Southeast-Asian ancestry had approximately 43% higher plasma eltrombopag AUC_(0-T) values (30% lower CL/F) as compared to non-Asian patients. Female pediatric ITP patients had approximately 25% higher plasma eltrombopag AUC_(0-T) values (20% lower CL/F) as compared to male patients.

The pharmacokinetic parameters of eltrombopag in pediatric patients with ITP are shown in Table 15.

Table 15: Steady-State Plasma Eltrombopag Pharmacokinetic Parameters in Pediatric Patients with ITP (50 mg Once Daily Dosing Regimen)

Age	C _{max} (mcg/mL)	AUC _(0-T) (mcg.hr/mL)
12 to 17 years (n = 62)	6.80	103
12 to 17 years (n = 62)	(6.17, 7.50)	(91.1, 116)
C to 11	10.3	153
6 to 11 years (n = 68)	(9.42, 11.2)	(137, 170)
1 to 5 years (n = 20)	11.6	162
1 to 5 years (n = 38)	(10.4, 12.9)	(139, 187)

Data presented as geometric mean (95% CI). $AUC_{(0-T)}$ and C_{max} based on population PK post-hoc estimates for a 50 mg once daily dose.

Geriatrics: The age difference of eltrombopag pharmacokinetics was evaluated using population PK analysis in 28 healthy patients and 635 patients with HCV ranging from 19 to 74 years old. Based on

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model estimate, elderly (> 60 years) patients had approximately 36% higher plasma eltrombopag $AUC_{(0-T)}$ as compared to younger patients (see 4 **DOSAGE AND ADMINISTRATION**).

Sex: The influence of gender on the pharmacokinetics of eltrombopag was evaluated using a population pharmacokinetics analysis in 111 healthy adults (14 females) and 88 patients with ITP (57 females). Based on estimates from the population pharmacokinetics analysis, female ITP patients had approximately 50% higher plasma eltrombopag $AUC_{(0-T)}$ as compared to male ITP 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 patients had approximately 41% higher plasma eltrombopag AUC_(0-T) as compared to male patients.

Ethnic Origin:

ITP: 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 87% higher plasma eltrombopag AUC_(0-T) values as compared to non-East-Asian patients who were predominantly Caucasian, without adjustment for body weight differences (see 4 DOSAGE AND ADMINISTRATON).

HCV-associated thrombocytopenia: The influence of East-/Southeast-Asian ethnicity on the pharmacokinetics of eltrombopag was evaluated using a population PK analysis in 635 patients with HCV (145 East-Asians and 69 Southeast-Asians). Based on estimates from the population PK analysis, East-Asian and Southeast-Asian patients had similar pharmacokinetics of eltrombopag. On average, East-/Southeast Asian patients had approximately 55% higher plasma eltrombopag AUC_(0-T) values as compared to patients of other races who were predominantly Caucasian, without adjustment for body weight differences (see <u>4 DOSAGE AND ADMINISTRATON</u>).

Hepatic Impairment: The pharmacokinetics of eltrombopag have been studied after administration of eltrombopag to adult patients with liver cirrhosis (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 patient 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 pharmacokinetics 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-T) values and patients with moderate hepatic impairment had approximately 183% (95% CI: 90% to 459%) higher plasma eltrombopag AUC_(0-T) values.

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The population PK/PD analysis of data collected in patients with chronic liver disease determined that the rate of platelet production was linearly related to plasma eltrombopag concentrations. In patients with chronic liver disease, the time to peak platelet count was approximately 3 weeks from the start of dosing.

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.

11 STORAGE, STABILITY AND DISPOSAL

Store between 15 - 30°C.

Teva-Eltrombopag should be stored out of the reach and sight of children.

12 SPECIAL HANDLING INSTRUCTIONS

No special handling instructions are required.

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PART II: SCIENTIFIC INFORMATION

13 PHARMACEUTICAL INFORMATION

Drug Substance

Proper name: Eltrombopag olamine

Chemical name:(Z)-3'-(2-(1-(3,4-dimethylphenyl)-3-methyl-5-oxo-1,5-dihydro-4H-pyrazol-4-

ylidene)hydrazinyl)-2'-hydroxy-[1,1'-biphenyl]-3-carboxylic acid;2-aminoethan-1-ol

(1:2)

Molecular formula: C₂₉H₃₆N₆O₆

Molecular mass: 564.63 g/mol (eltrombopag olamine), 442.48 g/mol (eltrombopag)

Structural formula:

Physicochemical properties: Eltrombopag Olamine is a brown to purple powder, non-hygroscopic and

contains thin, plate-like particles. Eltrombopag Olamine Form I melting, combined with decomposition, is at about 238°C. It has pK_a1 of 4.06, pK_a2 of 9.57 and pK_a3 of 11.88. Eltrombopag Olamine practically insoluble in Ethyl acetate, Acetone and Tetrahydrofuran, slightly soluble in Methanol, very slightly soluble in Ethanol (96%) and Acetic acid and, soluble in

Dimethyl sulfoxide.

14 CLINICAL TRIALS

14.1 Clinical Trials by Indication

Chronic Immune Thrombocytopenia (ITP)

One Phase II, randomised, double blind, placebo-controlled study, TRA100773A, 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 previously treated adult patients diagnosed with chronic ITP for at least 6 months (see Table 16). Overall, eltrombopag was administered to a total of 446 patients, 280 patients for at least 6 months and 228 patients for at least 1 year.

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Table 16: Summary of Patient Demographics for Clinical Trials in ITP

Study #	Study Design	Dosage, route of administration and duration	Study subject (N = number)	Mean age (Range)	Sex (%)
RAISE (TRA 102537)	Phase III, double-blind, randomized,	Eltrombopag 50 mg or matching Placebo; Daily oral	N = 197 Placebo: 62	Placebo: 52.5 years (18-77)	Female: 69 Male: 31
	placebo- controlled	dosing for 6 months; Dose modification (to 25 mg or 75 mg) allowed based on individual platelet counts.	Eltrombopag: 135	Eltrombopag: 4 7 years (18-85)	Female: 69 Male: 31
TRA 100773A	Phase II, double-blind, randomized,	Eltrombopag 30, 50, or 75 mg or matching Placebo;	Total N = 118 Placebo: 29	Placebo: 43 years (18-85) Eltrombopag:	Female: 55 Male: 45
	placebo- controlled	Daily oral dosing for 6 weeks.	Eltrombopag: 30 mg: 30	30 mg: 53 years (23-79) 50 mg: 47 years	Female: 53 Male: 47
			50 mg: 30	(23 – 81) 75 mg: 54 years (18-85)	Female: 70 Male: 30
			75 mg: 29		Female: 71 Male: 29
TRA100773B	Phase III, double-blind, randomized,	Eltrombopag 50 mg or matching Placebo; Daily oral	N = 114 Placebo: 38	Placebo: 51 years (21-79) Eltrombopag: 47	Female: 71 Male: 29
	placebo- controlled	dosing for 6 weeks; Dose escalation to 75 mg allowed for non-responders.	Eltrombopag: 76	years (19-84)	Female: 57 Male: 43
REPEAT (TRA 108057)	Single arm, open-label, intermittent dose.	Eltrombopag 50 mg; Daily oral dosing for up to 6 weeks, off-therapy for up to 4 weeks for 3 cycles; Dose escalation to 75 mg after Day 21 allowed.	N = 66 (Completed = 48)	Eltrombopag: 5 0 years (20-79)	Female: 68 Male: 32
EXTEND (TRA 105325)	Single arm, open-label, extension study, previously enrolled in an	Eltrombopag 50 mg Daily oral dosing Dose modification (to 25 mg or 75 mg once daily) allowed	N = 299 (Received treatment = 298; Ongoing = 154;	Eltrombopag: 5 0 years (18 – 86)	Female: 198 Male: 101

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Study #	Study Design	Dosage, route of administration and duration	Study subject (N = number)	Mean age (Range)	Sex (%)
eltrombopag		based on individual	Withdrawn =		
	study	platelet counts.	122)		

RAISE (TRA102537): In RAISE, the primary efficacy endpoint was the odds of achieving a platelet count $\geq 50 \times 10^9$ /L and $\leq 400 \times 10^9$ /L, during the 6 month treatment period, for patients receiving eltrombopag relative to placebo. One hundred and ninety seven patients were randomized and were stratified based upon splenectomy status, use of ITP medication at baseline, and baseline platelet count. Patients received study medication for up to 6 months, during which time the dose of eltrombopag could be adjusted based on individual platelet counts. In addition, patients could have tapered off concomitant ITP medications and received rescue treatments as dictated by local standard of care.

A summary of baseline disease characteristics and key efficacy results is provided in Table 18. One week after treatment with study medication, platelet counts rose to between 50-400 x 10°/L in 37% of eltrombopag-treated patients compared to 7% of placebo-treated patients. The proportion of responders in the eltrombopag group was between 37% and 56% for all nominal on-therapy visits, with a minimum of 37% at Day 8 and a maximum of 56% at Day 36. In comparison, the proportion of responders in the placebo group was between 7% and 19% for all nominal on-therapy visits, with a minimum of 7% at Day 8 and a maximum of 19% at Week 22 (see Figure 1). One week after discontinuation of treatment, more than 40% of patients treated with eltrombopag maintained platelet counts between 50-400 x 109/L, compared to placebo (15%). Two weeks after the end of treatment, the proportion of responders in the eltrombopag was similar to the placebo group.

The odds of achieving a platelet count between $50 \times 10^9 / L$ and $400 \times 10^9 / L$ during the 6 month treatment period were 8 times higher for eltrombopag treated patients than for placebo-treated patients.

Median platelet counts were maintained above $50 \times 10^9 / L$ at all on-therapy visits starting at Day 15 in the eltrombopag group; in contrast, median platelet counts in the placebo group remained below $30 \times 10^9 / L$ throughout the study.

At baseline, 77% of patients in the placebo group and 73% of patients in the eltrombopag group reported any bleeding (WHO Grades 1-4); clinically significant bleeding (WHO Grades 2-4) at baseline was reported in 28% and 22% of patients in the placebo and eltrombopag groups, respectively. The proportion of patients with any bleeding (Grades 1-4) and clinically significant bleeding (Grades 2-4) was reduced from baseline by approximately 50% throughout the 6 month treatment period in eltrombopag-treated patients. When compared to the placebo group, the odds of any bleeding (Grades 1-4) and the odds of clinically significant bleeding (Grades 2-4) were 76% and 65% lower in the eltrombopag-treated patients compared to the placebo-treated patients.

Significantly fewer eltrombopag-treated patients required rescue treatment compared to placebotreated patients.

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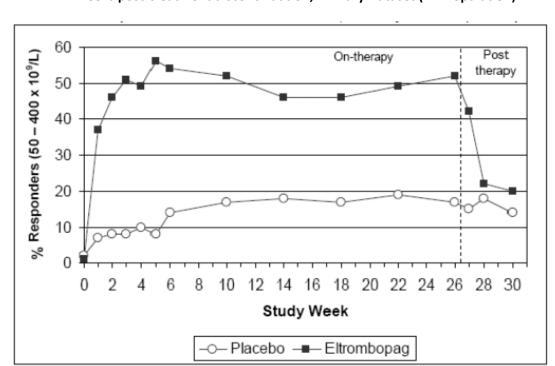


Figure 1: Summary of Responders (Platelet Counts \geq 50 x 10 9 /L and \leq 400 x 10 9 /L). Day 8 to 4-weeks post-treatment discontinuation, Primary Dataset (ITT Population)

Eltrombopag therapy allowed significantly more patients to reduce or discontinue baseline ITP therapies compared to placebo.

Four placebo and 14 eltrombopag patients had at least 1 haemostatic challenge (defined as an invasive diagnostic or surgical procedure) during the study. However, fewer eltrombopag-treated patients (29%) required rescue treatment to manage their haemostatic challenge, compared to placebo-treated patients (50%).

In terms of improvements in health-related quality of life, statistically significant improvements from baseline were observed in the eltrombopag group with fatigue, including severity and impact on thrombocytopenia-impacted daily activities and concerns (as measured by the vitality subscale of the SF36, the motivation and energy inventory, and the 6-item extract from the thrombocytopenia subscale of the FACIT-Th). Comparing the eltrombopag group to the placebo group, statistically significant improvements were observed with thrombocytopenia impacted activities and concerns specifically regarding motivation, energy and fatigue, as well as physical and emotional role and overall mental health. The odds of meaningful improvement in health related quality of life while on therapy were significantly greater among patients treated with eltrombopag than placebo.

In RAISE the response to eltrombopag relative to placebo was similar irrespective of ITP medication use, splenectomy status and baseline platelet count ($\leq 15 \times 10^9/L$, $> 15 \times 10^9/L$) at randomization.

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Table 19: Summary of Efficacy Results for the RAISE Study

	Eltrombopag N = 135	Placebo (PBO) N = 62	
Baseline Disease Characteristics			
Patients with baseline platelet count ≤ 15 x 10 ⁹ /L ^a , n (%)	67 (50)	30 (48)	
Patients with baseline platelet count > 15 x 10 ⁹ /L, n (%)	68 (50)	31 (50)	
Proportion of patients that used ITP medication at randomization, n (%)	63 (47)	31 (50)	
Splenectomised patients, n (%)	50 (37)	21 (34)	
Non-Splenectomised patients, n (%)	85 (63)	41 (66)	
Primary Endpoint			
Odds ratio (OR) for responding to treatment, Eltrombopag/Placebo ^{b,c}	8	.2	
95% CI	3.59,	18.73	
p-value (two-sided vs. PBO)	< 0.	.001	
Key Secondary Endpoints			
Analysis of any Bleeding (WHO Grades 1-4)			
OR bleeding throughout 6 months, Eltrombopag/Placebo ^c	0.	24	
95% CI	0.16	, 0.38	
p-value (two-sided vs. PBO)	< 0.	.001	
Patients with bleeding at any time during 6 months, n (%)	106 (79)	56 (93)	
OR bleeding at any time in 6 months, Eltrombopag/Placbo ^c	0.	21	
95% CI	0.06, 0.71		
p-value (two-sided vs. PBO)	0.0)12	
Analysis of Clinically Significant Bleeding (WHO Grades 2-4)			
OR bleeding throughout 6 months, Eltrombopag/Placebo ^c	0.	35	
95% CI	0.19	, 0.64	
p-value (two-sided vs. PBO)	< 0.	.001	
Patients with bleeding at any time during 6 months, n (%)	44 (33)	32 (53)	
OR bleeding at any time in 6 months, Eltrombopag/Placebo ^c	0.	30	
95% CI	0.14	, 0.66	
p-value (two-sided vs. PBO)	0.0	002	
Concomitant Medication Reduction / Use of Rescue Medications			
Proportion of patients receiving rescue treatment, n(%) ^d	25 (19)	25 (40)	
OR Eltrombopag/Placebo ^d	0.33		
95% CI	0.16, 0.64		
p-value (two-sided vs. PBO)	0.001		
Patients who reduced/discontinued ≥ 1 baseline ITP Medication, n (%) ^e	37 (59)	10 (32)	
OR Eltrombopag/Placebo ^d		10	
95% CI	1.24, 7.75		
p-value (two-sided vs. PBO)	0.016		

a One patient in the placebo group has a missing baseline platelet count

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b Responders defined as patients achieving platelet count between 50 to 400 x 10⁹/L,

c Repeated measures model for binary data adjusted for use of ITP medication at baseline, splenectomy status. baseline platelet count \leq 15 x 10 9 /L and baseline dichotomized WHO Bleeding Scale for any bleeding and Clinically Significant Bleeding) using GEE methodology.

d Logistic regression model adjusted for use of ITP medication at baseline, splenectomy status, baseline platelet count \leq 15 x 10⁹/L (and baseline dichotomized WHO Bleeding Scale for Any bleeding and Clinically Significant Bleeding).

e Denominator is number of patient taking an ITP medication at baseline.

TRA100773B: In TRA100773B, the primary efficacy endpoint was the proportion of responders, defined as patients who had an increase in platelet counts to $\geq 50 \times 10^9/L$ at Day 43 from a baseline < 30 x $10^9/L$; patients who withdrew prematurely due to a platelet count > $200 \times 10^9/L$ were considered responders, those discontinued for any other reason were considered non-responders irrespective of platelet count.

A summary of baseline disease characteristics and key efficacy results is provided in Table 19. Fifty-nine percent of patients on eltrombopag responded, compared to 16% of patients on placebo. The odds of responding were 9 times higher for eltrombopag treated patients compared to placebo. At baseline, 61% of patients in the eltrombopag group and 66% of patients in the placebo group reported any bleeding (Grade 1-4). At Day 43, 39% of patients in the eltrombopag treatment group had bleeding compared with 60% in the placebo group. Analysis over the treatment period using a repeated measures model for binary data confirmed that a lower proportion of eltrombopag patients had bleeding (Grade 1-4) at any point in time over the course of their treatment (Day 8 up to Day 43) compared to patients in the placebo group (see Table 20). Two placebo and one eltrombopag patients had at least one haemostatic challenge during the study.

In TRA100773B the response to eltrombopag relative to placebo was similar irrespective of ITP medication use, splenectomy status and baseline platelet count ($\leq 15 \times 10^9/L$, > $15 \times 10^9/L$) at randomization.

Table 20: Summary Efficacy Results for Study TRA100773B

	Eltrombopag	Placebo	
	N = 76	N = 38	
Baseline Disease Characteristics			
Patients with baseline platelet count ≤ 15 x 10 ⁹ /L, n (%)	38 (50)	17 (45)	
Patients with baseline platelet count > 15 x 10 ⁹ /L, n (%)	38 (50)	21 (55)	
Proportion of patients that used ITP medication at randomization, n (%)	32 (42)	17 (45)	
Splenectomised patients, n (%)	31 (41)	14 (37)	
Non-Splenectomised patients, n (%)	45 (59)	24 (63)	
Primary Endpoint			
Proportion of patients who responded to treatment, n (%)	43 (59) ^a	6 (16) ^a	
Odds ratio (OR) for responding to treatment, Eltrombopag/Placebob	9.0	61	
99% CI	(3.31,	27.86)	
p-value (two-sided vs. PBO)	< 0.	001	
Key Secondary Endpoint			
Analysis of any Bleeding (WHO Grades 1-4)			
OR bleeding at any time during 6 weeks, Eltrombopag/Placebo	0.49		
95% CI	(0.26, 0.89)		
p-value (two-sided vs. PBO)	0.021		

a One patient did not have a platelet count at 6 weeks

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b Responder defined as patients who had an increase in platelet counts to \geq 50 x 10 9 /L from baseline < 30 x 10 9 /L after up to 6-weeks of dosing

REPEAT (TRA108057): REPEAT evaluated the efficacy, safety and consistency of response following repeated, intermittent, short-term dosing of eltrombopag over 3 cycles of therapy in adults with previously treated chronic ITP. A cycle was defined as an up to 6-week on-therapy period followed by an up to 4-week off-therapy period. The primary endpoint in REPEAT was the proportion of patients who achieved a platelet count $\geq 50 \times 109/L$ and at least 2x baseline in Cycle 2 or 3, given this response in Cycle 1.

Of the 52 patients who responded in Cycle 1, 33 (63%) achieved a platelet count of \geq 50 x 10 9 /L and at least 2x baseline on Day 8 in Cycle 1; on Day 15, 37 (79%) of 47 evaluable patients achieved this level of response (see Table 21).

Table 21: Analysis of Responders in Cycle 1 and Cycle 2 or 3 (ITT Populations)

	Eltrombopag 50 mg (N=66)
Evaluable in Cycle 1, n	65*
Responders in Cycle 1, n (%)	52 (80)
Evaluable in Cycle 2 or 3, n	52
Responders in Cycle 1 and in Cycle 2 or 3, n (%)	45 (87)
Proportion	0.87
95 % CI for Proportion (Exact Methods)	(0.74, 0.94)

^{* 1} patient was not evaluable for Cycle 1 due to a missing platelet count assessment at Day 43

A reduction in any bleeding (WHO Grade 1-4) and clinically significant bleeding (WHO Grade 2-4) during the treatment phases was demonstrated in each cycle. At the baseline visit of Cycle 1, 50% and 19% of patients reported any bleeding and clinically significant bleeding, respectively. At the Day 43 Visit of Cycle 1, the proportion of patients bleeding was reduced; 12% and 0% of patients reported any bleeding and clinically significant bleeding, respectively. Similar results were found during the subsequent treatment cycles.

Eight patients successfully managed 10 haemostatic challenges without need for additional therapy to elevate platelet counts and without unexpected bleeding.

EXTEND (TRA105325): EXTEND evaluated the safety and efficacy of eltrombopag in patients (n=299) with chronic ITP who were previously enrolled in an eltrombopag study. In this study, patients were permitted to modify their dose of study medication as well as decrease or eliminate concomitant ITP medications.

Two hundred and forty-nine patients completed ≥ 6 months of treatment, 210 completed ≥ 12 months of treatment, 138 patients completed ≥ 2 years of treatment, and 24 patients completed ≥ 3 years of treatment. The median follow up was 100 weeks. The majority of patients had baseline platelet counts of $< 30 \times 10^9 / L$ (70%) The median daily dose of eltrombopag following at least 6 months (Day 182) of therapy was 50 mg (n = 252).

At baseline, 56% of patients had any bleeding (WHO Bleeding Grades 1–4) and 16% had clinically significant bleeding (WHO Bleeding Grades 2 indicating clinically significant bleeding). The proportion of

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patients with any bleeding and clinically significant bleeding decreased from baseline by approximately 50% for the majority of assessments up to 1 year.

Sixty-five percent of patients who reduced a baseline medication permanently discontinued or had a sustained reduction of their baseline ITP medication and did not require any subsequent rescue treatment. Ninety-six percent of these patients maintained this discontinuation or reduction for at least 24 weeks. Fifty-four percent of patients completely discontinued at least one baseline ITP medication, and 49% of patients permanently discontinued all baseline ITP medications, without subsequent rescue treatment.

Fifty-six patients experienced at least one haemostatic challenge during the study. No patients experienced unexpected bleeding complications related to the procedure while on study.

Pediatric Chronic Immune Thrombocytopenia (ITP)

PETIT2 (TRA115450): The efficacy of eltrombopag in pediatric patients (aged 1 to 17 years) with chronic ITP for at least 12 months was evaluated in a Phase III double-blind, placebo-controlled study (Table 22). Overall, eltrombopag was administered to 63 pediatric patients with median exposure of 91 days during the Randomized Period. During the study, doses could be increased every 2 weeks, based on individual platelet counts, to a maximum of 75 mg once daily. The dose of eltrombopag was reduced if the platelet count exceeded $200 \times 10^9/L$ and interrupted if it exceeded $400 \times 10^9/L$. In pediatric clinical trials, patients between 1 to 5 years of age were administered eltrombopag as powder for oral suspension.

The median duration of treatment with eltrombopag in pediatric clinical trials was 5.6 months with a minimum duration of 0.5 months and a maximum duration of 9.0 months.

Table 22: Summary of Trial Design and Patient Demographics for Study PETIT2 (TRA115450) in Pediatric ITP (Randomized Phase)

Study #	Study Design	Dosage, route of administration and duration	Study subject (N = number)	Mean age (Range)	Sex (%)
PETIT2	Phase III, two-	Cohorts 1 (12-17	Cohort 1 N=33	Cohort 1	Cohort 1
(TRA1154	part, double-	years) and 2 (6-11		Placebo: 14.3	Female: 30
50)	blind,	years) starting	Placebo: 10	years (12-17)	Male: 70
	randomized,	dose*:		Eltrombopag:14.0	Female:
	placebo-	Eltrombopag 50	Eltrombopag: 23	years (12-17)	39.1
	controlled and open-label	mg (if weighing <u>></u> 27 kg) or 37.5 mg			Male: 60.9
		(if weighing < 27	Cohort 2 N=39	Cohort 2	Cohort 2
		kg) or matching		Placebo: 8.7	Female:
		Placebo; Daily oral	Placebo: 13	years (6-11)	53.8
		tablet dosing		Eltrombopag: 8.3	Male: 46.2
			Eltrombopag: 26	years (6-16)	Female:
					50.0
					Male: 50.0

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Study#	Study Design	Dosage, route of administration and duration	Study subject (N = number)	Mean age (Range)	Sex (%)
		Cohort 3 (1-5 years) starting dose#: 1.2 mg/kg or matching Placebo; Daily oral suspension dosing Part 1 (Randomized): 13 weeks Part 2 (Openlabel): 24 weeks	Cohort 3 N=20 Placebo: 6 Eltrombopag: 14	Cohort 3 Placebo: 4.7 years (4-5) Eltrombopag: 3.6 years (1-5)	Cohort 3 Female: 66.7 Male: 33.3 Female: 57.1 Male:42.9

^{*} A reduced dose of 25 mg once daily was used for East Asian patients aged 6 to 17 years, regardless of weight.

Patients who were refractory or relapsed to at least one prior ITP therapy or unable to continue other ITP treatments for a medical reason, and had a platelet count $< 30 \times 10^9 / L$ (n = 92) were stratified by age and randomized (2:1) to eltrombopag (n = 63) or placebo (n = 29).

Across the three cohorts, the median age of the patients was 9 years; 48% were female; the majority were White (64%), and the remainder were primarily of Asian ancestry (defined as Japanese, East Asian or South East Asian). Approximately 63% of patients had a baseline platelet count less than or equal to 15×10^9 /L. Seventy-three percent in the group treated with eltrombopag and 90% in the group treated with placebo had received at least two prior ITP therapies (predominantly corticosteroids and immunoglobulins). Four (6%) patients in the group treated with eltrombopag had undergone splenectomy.

The primary efficacy endpoint was a sustained response, defined as the proportion of patients achieving platelet counts $\geq 50 \times 10^9 / L$ for at least 6 out of 8 weeks (in the absence of rescue therapy), between Weeks 5 to 12 during the double-blind period.

Overall, a significantly greater proportion of eltrombopag patients (40%) compared with placebo patients (3%) achieved the primary endpoint (p < 0.001) which was similar across the three age cohorts (Table 23).

Table 23: Summary of Efficacy Results for the PETIT2 Study

	Eltrombopag n/N (%)	Placebo n/N (%)
Overall	25/63 (40)*	1/29 (3)
Cohort 1	9/23 (39)	1/10 (10)
Cohort 2	11/26 (42)	0/13 (0)
Cohort 3	5/14 (36)	0/6 (0)

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[#] The starting dose for East Asian patients aged 1 to 5 years was 0.8 mg/kg once daily administered as oral suspension.

* p-value < 0.001 for eltrombopag versus placebo

A greater proportion of patients treated with eltrombopag (75%) compared with placebo (21%) had a platelet response (at least one platelet count > 50×10^9 /L during the first 12 weeks of randomized treatment in absence of rescue therapy). The median of the maximum duration for which a platelet count $\geq 50 \times 10^9$ /L was continuously maintained during the first 12 weeks of the Randomized Period was 3.0 weeks (range: 0-12) for eltrombopag compared to 0 week (range: 0-8) for placebo. Fewer eltrombopag patients required rescue treatment during the randomized period compared to placebo patients (19% [12/63] vs. 24% [7/29]).

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.

Chronic Hepatitis C-Related Thrombocytopenia

The efficacy and safety of eltrombopag for the treatment of thrombocytopenia in patients with HCV infection were evaluated in two randomized, double-blind, placebo-controlled studies. ENABLE 1 utilized peginterferon alfa-2a (PEGASYS*) plus ribavirin for antiviral treatment and ENABLE 2 utilized peginterferon alfa-2b (PEGETRON*) plus ribavirin.

Table 24: Summary of Trial Design and Patient Demographics for Clinical Trials in HCV

Study #	Study Design	Dosage, route of administration and duration	Study subject (N = number)	Mean age (Range)	Sex (%)
ENABLE 1 (TPL 103922)	Phase III, double-blind, randomized, placebo- controlled	Pre-antiviral treatment phase: 25 mg once daily, increased in 25 mg increments, up to 100 mg	Pre-antiviral treatment phase: Eltrombopag N=715	Pre-antiviral treatment phase: Eltrombopag 51.8 yrs (19-76 yrs)	Pre-antiviral treatment phase: F: 269 (38%) M: 446 (62%)
		Antiviral treatment phase: Same dose as pre-treatment phase or placebo	Treatment phase: Placebo N=232 Eltrombopag N=450	Treatment phase: Placebo 51.4 yrs (23-72 yrs) Eltrombopag 52.1 yrs (19-76 yrs)	Treatment phase: Placebo F: 73 (31%) M: 159 (69%) Eltrombopag F: 186 (41%) M: 264 (59%)
ENABLE 2 (TPL 108390)	Phase III, double-blind, randomized, placebo- controlled	Pre-antiviral treatment phase: 25 mg once daily, increased in 25 mg	Pre-antiviral treatment phase: Eltrombopag N=805	Pre-antiviral treatment phase:	Pre-antiviral treatment phase: F: 295 (37%)

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Study #	Study Design	Dosage, route of administration and duration	Study subject (N = number)	Mean age (Range)	Sex (%)
		increments, up to 100 mg		Eltrombopag 52.2 yrs (22-83 yrs)	M: 510 (63%)
		Antiviral treatment phase: Same dose as pre-treatment phase or placebo	Treatment phase: Placebo N=253 Eltrombopag N=506	Treatment phase: Placebo 52.0 yrs (26-74 yrs) Eltrombopag 52.4 yrs (22-83 yrs)	Treatment phase: Placebo F: 93 (37%) M: 160 (63%) Eltrombopag F: 185 (37%)
					M: 321 (63%)

ENABLE 1 and ENABLE 2 were global, multicenter, two-part studies that used a randomized withdrawal design. The studies were identical in design and differed only in the pegylated interferon/ribavirin used (ENABLE 1 utilized peginterferon alfa-2a (PEGASYS*) plus ribavirin for antiviral treatment and ENABLE 2 utilized peginterferon alfa-2b (PEGETRON*) plus ribavirin.

They consisted of two phases: an open-label (OL) pre-antiviral treatment phase (Part 1) and randomized, double-blind (DB), placebo-controlled antiviral treatment phase (Part 2). In the pre-antiviral treatment phase (Part 1), all patients received open-label eltrombopag to increase the platelet count to $\geq 90 \times 10^9$ /L for ENABLE 1 and $\geq 100 \times 10^9$ /L for ENABLE 2. Median baseline platelet counts (approximately 60×10^9 /L) were similar among all treatment groups.

In both studies, eltrombopag was administered at an initial dose of 25 mg once daily for 2 weeks. Dose escalations could occur every 2 weeks, in 25 mg increments up to a maximum of 100 mg eltrombopag daily, as needed to reach target platelet counts required to enter Part 2 of the study. The maximal time patients could receive open-label eltrombopag in Part 1 was 9 weeks.

Once eligible for Part 2, patients were randomized (2:1) to the same dose of eltrombopag received at the end of the pre-treatment phase (Part 1) or to placebo. Eltrombopag or placebo was administered in combination with pegylated interferon/ribavirin antiviral treatment for up to 48 weeks (actual duration depending on HCV genotype). All patients in ENABLE 1 and ENABLE 2 were to attend post-treatment follow-up visits up to 24 weeks.

In both ENABLE 1 and ENABLE 2, patients with a platelet count of < 75×10^9 /L were enrolled and stratified by platelet count (< 50×10^9 /L and ≥ 50×10^9 /L to < 75×10^9 /L), screening HCV RNA (< 800,000 IU/mL and ≥ 800,000 IU/mL), and HCV genotype (genotype 2/3, and genotype 1/4/6). The primary efficacy endpoint for both studies was sustained virologic response (SVR) defined as the percentage of patients with non-detectable e HCV-RNA at 24 weeks after completion of the planned treatment period.

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Baseline disease characteristics are described in Table 25 below.

Table 25: Baseline Disease Characteristics (Pooled Data, Intent-To-Treat Population)

	Eltrombopag	Placebo
	(N = 956)	(N = 485)
HCV genotype, n (%)	n = 953	n = 484
1	612 (64)	309 (64)
2	67 (7)	50 (10)
3	228 (24)	101 (21)
4	41 (4)	22 (5)
6	5 (<1)	2 (< 1)
HCV RNA, n (%)	n = 954	n = 483
< 800,000 IU/mL	502 (53)	244 (51)
≥ 800,000 IU/mL	452 (47)	239 (49)
Prior Antiviral Medications, n (%)	n = 956	n = 485
Naïve	654 (68)	334 (69)
Experienced	302 (32)	151 (31)
Child-Pugh Classification, n (%)	n = 953	n = 485
A (score 5-6)	911 (96)	459 (95)
B (score 7-9)	42 (4)	26 (5)
ALT, n (%)	n=956	n=485
Normal	216 (23)	103(21)
Elevated	740(77)	382(79)
Baseline Platelet Count (Gi/L), n (%)	n = 956	n = 485
< 50	264 (28)	139 (29)
<u>≥</u> 50	692 (72)	346 (71)
MELD Score n (%)	n=941	n=477
< 10	541 (57)	264 (55)
<u>≥</u> 10	400 (43)	213 (45)
Baseline Albumin (g/L), n (%)	n=955	n=484
≤35	275 (29)	139(29)
35	680 (71)	345(71)
FibroSURE Score, n (%)	n=842	n=426
0/12	83 (10)	42 (10)
3/4	759 (90)	384 (90)

Note: n represents patients with evaluable data.

In the pre-antiviral phase (Part 1) of ENABLE 1 and ENABLE 2, platelet counts began to rise within the first week of treatment with eltrombopag, and the median time to achieve the target platelet count \geq 90 x 10 9 /L was approximately 2 weeks. Ninety-five percent of patients were able to initiate antiviral therapy, with over 80% of patients receiving 25 mg or 50 mg eltrombopag at randomization into the antiviral treatment phase (Part 2).

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In both studies, a significantly greater proportion of patients treated with eltrombopag achieved SVR (see Table 23). A greater proportion of patients on eltrombopag achieved SVR regardless of baseline platelet count ($< 50 \times 10^9$ /L versus $\ge 50 \times 10^9$ /L) compared to placebo. In patients with high viral loads (> 800,000), the SVR rate was reported at 18% for eltrombopag versus 8% for placebo. Significantly more patients reached the antiviral milestones of early virologic response (EVR), complete EVR, end-of-treatment response (ETR), and SVR at 12 weeks when treated with eltrombopag.

Table 26: ENABLE 1 and ENABLE 2 Virologic and Platelet Response in Adults with Chronic Hepatitis C Virus

	ENABLE 1 ^a ENABLE 2 ^b		E 2 ^b	Pooled	Data			
Pre-antiviral Treatment Phase	N = 7	N = 715 N = 805 N = 152		N = 805		20		
% Patients who achieved target platelet counts and initiated antiviral therapy ^c	95%		94%		94%		95%	
Antiviral treatment Phase	Eltrombopag	Placebo	Eltrombopag	Placebo	Eltrombopag	Placebo		
	N = 450	N = 232	N = 506	N = 253	N = 956	N = 485		
	%	%	%	%	%	%		
Overall SVR24 ^d	23	14	19	13	21	13		
HCV Genotype 2,3	35	24	34	25	35	25		
HCV Genotype 1,4,6	18	10	13	7	15	8		
Platelet count < 50 Gi/L	23	16	18	6	20	11		
Platelet count > 50 Gi/L	23	14	20	15	21	14		
HCV RNA < 800,000 IU/mL	28	20	20	17	24	18		
HCV RNA <u>></u> 800,000 IT/mL	18	9	18	8	18	8		

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

Results of secondary endpoint analyses showed the following: Significantly fewer patients treated with eltrombopag prematurely discontinued antiviral therapy compared to placebo (45% versus 60%, P = 0.0001). A greater proportion of patients on eltrombopag were reported to not require any antiviral dose reduction as compared to placebo (45% versus 27%), while the majority of patients treated with eltrombopag (76%) maintained a platelet count \geq 50 x 10 9 /L, compared to 19% for placebo. A greater proportion of patients in the placebo group (20%) were seen to have had a platelet count nadir less than 25 x 10 9 /L during treatment, compared to patients treated with eltrombopag (3%).

Median platelet counts observed at the start of antiviral therapy were similar in both eltrombopag and placebo groups (134×10^9 /L versus 135×109 , respectively) for pooled data in the HCV patient population. Four (4) weeks following the initiation of the double-blind treatment phase, platelet counts decreased to approximately 97×10^9 /L in the eltrombopag group and 48×10^9 /L in the placebo group.

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b Eltrombopag given in peginterferon alfa-2b (1.5 mcg/kg once weekly for 48 weeks for genotype 1; 24 weeks for genotype 2 or 3) plus ribavirin (800 to 1,400 mg orally).

c Target platelet count was $\geq 90 \times 10^9 / L$ for ENABLE 1 and $\geq 100 \times 10^9 / L$ for ENABLE 2.

d SVR: sustained viral response at 24 weeks following commencement of anti-viral therapy, p value <0.05 for both ENABLE 1 and ENABLE 2

Median platelet counts remained near Week 4 values for the remainder of the double-blind treatment phase (Part 2).

Severe Aplastic Anemia (SAA)

CETB115AUS28T

Eltrombopag was studied in a single-arm, single-center, phase II study in 43 patients with severe aplastic anemia who had an insufficient response to at least one course of antithymocyte globulin (rabbit or horse) plus cyclosporine and who had a platelet count $\leq 30 \times 10^9$ /L.

Eltrombopag was administered at an initial dose of 50 mg once daily for 2 weeks and increased by 25 mg over 2 week periods up to a maximum dose of 150 mg once daily. The primary endpoint was hematological response assessed after 12 or 16 weeks of eltrombopag treatment.

Hematological response was defined as meeting one or more of the following criteria: 1) platelet count increases to 20×10^9 /L above baseline, or stable platelet counts with transfusion independence for a minimum of 8 weeks; 2) hemoglobin increase by > 15g/L, or a reduction in \ge 4 units of RBC transfusions for 8 consecutive weeks; 3) absolute neutrophil count (ANC) increase of 100% or an ANC increase > 0.5 $\times 10^9$ /L.

Eltrombopag was discontinued after 16 weeks if no hematologic response or transfusion independence was observed. Patients who responded continued therapy in an extension phase of the study.

The treated population had median age of 45 years (range 17 to 77 years) and 56% were male. At baseline, the median platelet count was 20×10^9 /L, hemoglobin was 84 g/L, ANC was 0.58×10^9 /L and absolute reticulocyte count was 24.3×10^9 /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.

Table 27 presents the primary efficacy results.

Table 27: Hematologic Response in Severe Aplastic Anemia

Outcome	Eltrombopag N = 43
Response Rate, N (%)	17 (40)
95% CI (%)	(25, 56)

Bi- or tri-lineage responses were observed in 4/43 patients (9%) at the initial response assessment and in 8/43 patients (19%) at the last assessment. The longest platelet transfusion free period in responders ranged from 8 to 1,096 days with a median of 200 days. The longest RBC transfusion free period in responders ranged from 15 to 1,082 days with a median of 208 days. Four patients who tapered off

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treatment with eltrombopag due to a tri-lineage response maintained a response for a median follow up period of 8 months (7.2 to 10.6 months).

Detailed Pharmacology

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

Pharmacokinetic Interactions

Based on a human study with radiolabeled 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 and potential co-medications.

Based on a human study with radiolabelled 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. In studies utilizing human liver microsomes, eltrombopag (up to $100~\mu M$) 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, with IC50 values of 24.8 μM (11 mcg/mL) and 20.2 μM (8.9 mcg/mL), respectively. Administration of eltrombopag 75 mg once daily for 7 days to 24 healthy male patients 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, inducers or inhibitors are co-administered.

In vitro studies demonstrate that eltrombopag is an inhibitor of the OATP1B1 transporter, with an IC₅₀ value of 2.7 μ M (1.2 mcg/mL) and an inhibitor of the BCRP transporter, with an IC₅₀ value of 2.7 μ M (1.2 mcg/mL). 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 patients increased plasma rosuvastatin C_{max} 103% (90% CI: 82%, 126%) and AUC_(0- ∞) 55% (90% CI: 42%, 69%) (see <u>9.4 Drug-Drug Interactions</u>).

Administration of a single dose of eltrombopag 50 mg tablet with 200 mg cyclosporine decreased the C_{max} and the $AUC_{(0-\infty)}$ of eltrombopag by 25% (90% CI: 15%, 35%) and 18% (90% CI: 8%, 28%), respectively. The co-administration of 600 mg cyclosporine decreased the C_{max} and the $AUC_{(0-\infty)}$ of eltrombopag by 39% (90% CI: 30%, 47%) and 24% (90% CI: 14%, 32%), respectively. The exact mechanism is unknown.

Co-administration of eltrombopag with lopinavir/ritonavir (LPV/RTV) may cause a decrease in the concentration of eltrombopag. A study in 40 healthy volunteers showed that the co-administration of single dose eltrombopag 100 mg with repeat dose LPV/RTV 400/100 mg twice daily resulted in a reduction in eltrombopag plasma $AUC_{(0-\infty)}$ by 17% (90% CI:6.6%, 26.6%) (see **9.4 Drug-Drug Interactions**).

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Co-administration of eltrombopag with the HCV protease inhibitor boceprevir did not have an effect on the concentration of eltrombopag. A study in 28 healthy volunteers showed that the co-administration of single dose eltrombopag 200 mg with repeat dose boceprevir 750 mg three times daily reduced the boceprevir plasma $AUC_{(0-\infty)}$ by 4% (90% CI: -14.7%, 8.5%). Co-administration of single dose eltrombopag 200 mg with repeat dose boceprevir 800 mg three times daily reduced the boceprevir plasma $AUC_{(0-\infty)}$ by 4% (90% CI: 0.8%, 7.9%) and the C_T by 32% (90% CI -41.7%, -21.4%) (see <u>9.4 Drug-Drug Interactions</u>).

Co-administration of eltrombopag with the HCV protease inhibitor telaprevir did not have an effect on the concentration of eltrombopag A study in 28 healthy volunteers showed that the co-administration of single dose eltrombopag 200 mg with repeat dose telaprevir 750 mg three times daily reduced the eltrombopag plasma $AUC_{(0-\infty)}$ by 6% (90% CI: -14.7%, 3.5%). Co-administration of single dose eltrombopag 200 mg with repeat dose telaprevir 750 mg three times daily reduced the telaprevir plasma $AUC_{(0-\infty)}$ by 2% (90% CI: -6.1%, 2.5%) (see **9.4 Drug-Drug Interactions**).

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_{max} by 70% (90% CI: 62%, 76%) (see <u>4 DOSAGE AND ADMINISTRATION</u> and <u>9.4 Drug-Drug Interactions</u>).

Administration of a single 50 mg dose of eltrombopag with a standard high-calorie, high-fat breakfast that included dairy products reduced plasma eltrombopag $AUC_{(0-\infty)}$ by 59% (90% CI: 54%, 64%) and C_{max} by 65% (90% CI: 59%, 70%). Whereas, low-calcium food (< 50 mg calcium) including fruit, lean ham, beef and unfortified (no added calcium, magnesium, iron) fruit juice, unfortified soy milk, and unfortified grain did not significantly impact plasma eltrombopag exposure, regardless of calorie and fat content (see 4 DOSAGE AND ADMINISTRATION and 9.4 Drug-Drug Interactions).

14.2 Comparative Bioavailability Studies

25 mg Fasting Study:

A double blinded, randomized, single dose, three way crossover, bioequivalence study of Teva-Eltrombopag (Teva Canada Limited), Revolade® (Novartis Pharmaceuticals Canada Inc.) and Revolade® (Novartis Europharm Limited, Dublin, Ireland) administered as single oral doses of 1 x 25 mg was conducted in healthy adult male subjects under fasting conditions. A summary of the data from the 67 subjects who completed the study is presented in the table below.

SUMMARY TABLE OF THE COMPARATIVE BIOAVAILABILITY DATA

Eltrombopag						
	(1 x 25 mg)					
		Geometric Me	ean			
	Arithmetic Mean (CV %)					
D	Test ¹	% Ratio of 90%				
Parameter	rest	Reference ² Geometric Means Interval				
AUC _{0-72h}	49665.3	50151.6	99.6 94.3 - 105.2			
(ng.h/mL)	51376.8 (26.2)	53077.7 (32.4)				

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Eltrombopag						
	(1 x 25 mg)					
		Geometric Me	ean			
		Arithmetic Mean	(CV %)			
	To at 1	Reference ²	% Ratio of	90% Confidence		
Parameter	Test ¹	kererence-	Geometric Means	Interval		
AUC _I	55382.5	55953.2	99.7	04.0 405.5		
(ng.h/mL)	57767.0 (30.0)	59903.1 (36.1)	33.7	94.3 - 105.5		
C _{max}	4038.9	3977.0	101.2	05.6.407.2		
(ng/mL)	4131.3 (21.0)	4150.8 (27.4)	101.2	95.6 - 107.2		
T _{max} ³	2.67	3.01				
(h)	(1.50 - 5.00)	(1.50 - 6.02)				
T _½ ⁴ (h)	26.5 (20.9)	26.2 (22.7)				

¹Teva-Eltrombopag tablets 25 mg (eltrombopag as eltrombopag olamine) (Teva Canada Limited)

50 mg Fasting Study:

A double blinded, randomized, single dose, two way crossover, bioequivalence study of Teva-Eltrombopag (Teva Canada Limited) and Revolade® (Novartis Pharmaceuticals Canada Inc.) administered as a single oral dose of 1 x 50 mg was conducted in healthy adult male and female subjects under fasting conditions. The comparative bioavailability data from the 71 subjects who completed the study are summarized in the table below.

SUMMARY TABLE OF THE COMPARATIVE BIOAVAILABILITY DATA

		Eltrombopa	g		
(1 x 50 mg)					
		Geometric Me	ean		
		Arithmetic Mean	(CV %)		
Downstan	Test ¹	Reference ²	% Ratio of	90% Confidence	
Parameter	TCSt	Reference	Geometric Means	Interval	
AUC _{0-72h}	110022.7	110559.4	00.5	047 1045	
(ng.h/mL)	114658.9 (27.4)	115135.8 (28.9)	99.5	94.7 – 104.5	
AUCı	122759.3	123105.8	00.7	04.0 104.7	
(ng.h/mL)	128555.6 (29.0)	128924.8 (31.1)	99.7	94.9 – 104.7	
C _{max}	9126.3	9274.3	00.4	02 5 104 7	
(ng/mL)	9441.1 (24.4)	9653.7 (26.5)	98.4	92.5 – 104.7	
T _{max} ³	3.33	3.00			
(h)	(1.50 - 6.00)	(1.52 - 6.00)			

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² Revolade® tablets 25 mg (eltrombopag as eltrombopag olamine) (Novartis Pharmaceuticals Canada)

³Expressed as median (range) only

⁴ Expressed as arithmetic mean (CV%) only

Eltrombopag						
	(1 x 50 mg)					
		Geometric Me	ean			
	Arithmetic Mean (CV %)					
_	Test ¹	Reference ²	% Ratio of	90% Confidence		
Parameter	rameter Test Reference Geometric Means Interval					
T _½ ⁴ (h)	27.0 (17.5)	26.7 (18.3)				

¹Teva-Eltrombopag tablets 50 mg (eltrombopag as eltrombopag olamine) (Teva Canada Limited)

15 MICROBIOLOGY

No microbiological information is required for this drug product.

16 NON-CLINICAL TOXICOLOGY

General Toxicology

Eltrombopag does not stimulate platelet production in mice, rats, or dogs because of unique TPO receptor specificity. These animal species do not therefore model any potential on-target adverse effects related to the pharmacology of eltrombopag in the general toxicology, reproductive toxicology, and carcinogenicity studies. In the absence of nonclinical models to study potential on-target effects, it is acknowledged that the toxicology program lacks the ability to fully evaluate the safety eltrombopag through study of the exaggerated pharmacology. The toxicology evaluation was therefore limited to identify potential off-target effects.

Repeat Dose Toxicity

The toxicity of repeated oral doses of eltrombopag has been assessed in mice, rats, rabbits and dogs in studies of up to 13, 28, 1 and 52 weeks, respectively. Eltrombopag was well tolerated with no adverse treatment-related clinical signs, effects on food consumption or body weight, or mortality for up to 13 weeks in mice at doses \leq 100 mg/kg/day (652 µg.h/mL), 28 weeks or 2 years in rats at doses \leq 30 or 40 mg/kg/day (661 or 677 µg.h/mL, respectively), 1 week in rabbits at doses \leq 150 mg/kg/day (59 µg.h/mL), and 52 weeks in dogs at doses \leq 30 mg/kg/day (418 µg.h/mL). Systemic exposures at these dose levels were 4.5-fold the maximum proposed human exposure in mice and rats, 0.4-fold in rabbits and 2.9-fold in dogs.

Treatment-related cataracts were detected in rodents and were dose and time-dependent. At \geq 6 times the human clinical exposure based on AUC in ITP patients at 75 mg/day and 3 times the human clinical exposure based on AUC in HCV patients at 100 mg/day, cataracts were observed in mice after 6 weeks and rats after 28 weeks of dosing. At \geq 4 times the human clinical exposure based on AUC in ITP patients at 75 mg/day and 2 times the human clinical exposure based on AUC in HCV patients at 100 mg/day, cataracts were observed in mice after 13 weeks and in rats after 39 weeks of dosing.

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² Revolade® tablets, 50 mg (eltrombopag as eltrombopag olamine) tablets (Novartis Pharmaceuticals Canada)

³ Expressed as median (range) only

⁴ Expressed as arithmetic mean (CV%) only

Cataracts have not been observed in dogs after 52 weeks of dosing at 2 times the human clinical exposure in ITP or pediatric ITP patients and equivalent to the human clinical exposure in HCV patients 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 characterized by a spectrum of regenerative changes. The exposure at the lowest dose was 1.2 times and 0.8 times the human clinical exposure based on AUC in ITP and pediatric ITP patients, respectively, at 75 mg/day and 0.6 times the human clinical exposure respectively, based on AUC in HCV patients at 100 mg/day.

Renal effects were not observed in rats after 28 weeks or in dogs after 52 weeks at exposures 4 and 2 times respectively, the human clinical exposure in ITP patients, 3 and 2 times, respectively, the human clinical exposure in pediatric ITP patients, and 2 times and equivalent to the human clinical exposure in HCV patients, 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) or dogs (52 weeks) at exposures up to 4 or 2 times, respectively, the human clinical exposure in ITP patients, and 3 and 2 times, respectively, the human clinical exposure in pediatric 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.

Carcinogenicity

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 times and 2 times the human clinical exposure based on AUC in ITP and pediatric ITP patients, respectively, and 2 times the human clinical exposure based on AUC in HCV patients at 100 mg/day).

Genotoxicity

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 and 8 times the human clinical exposure based on C_{max} in ITP and pediatric ITP patients, respectively, at 75 mg/day and 7 times the human clinical exposure in HCV patients at 100 mg/day). 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.

Phototoxicity

In vitro studies with eltrombopag suggest a potential photosafety risk; however, in rodents there was no evidence of cutaneous phototoxicity (10 times and 7 times the human clinical exposure in ITP and pediatric ITP patients, respectively, and 5 times the human clinical exposure in HCV patients, based on

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AUC) or ocular phototoxicity (\geq 6 times and \geq 4 times the human clinical exposure in ITP and pediatric ITP patients, respectively, and \geq 3 times the human clinical exposure in HCV patients, based on AUC). Furthermore, a clinical pharmacology study in 36 patients 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.

Reproductive and Developmental 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 and approximately equivalent to the human clinical exposure in ITP and pediatric ITP patients, respectively, 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, pediatric ITP, and HCV patients based on AUC). However, at a maternally toxic dose of 60 mg/kg/day (6 times and 4 times the human clinical exposure in ITP and pediatric ITP patients, respectively, and 3 times the human clinical exposure in HCV patients, based on AUC) in rats, eltrombopag treatment was associated with embryo lethality (increased pre and post implantation loss), reduced fetal body weight and gravid uterine weight in the female fertility study and a low incidence of cervical ribs and reduced fetal body weight in the embryofetal development study.

Special Populations and Conditions

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 and pediatric ITP patients and 2 times the human clinical exposure in HCV patients, 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, neurobehavioral or reproductive function of the offspring (F_1). Eltrombopag was detected in the plasma of all F_1 rat pups for the entire 22 hour sampling period following administration of medicinal product to the F_0 dams, suggesting that rat pup exposure to eltrombopag was likely via lactation.

Juvenile Toxicity

Age-dependent development of hepatic excretory pathways and reduced hepatic clearance led to higher exposures of eltrombopag and poor tolerability in very young rats. In a juvenile rat study using pups treated from days 4-31 postpartum, all pups at 60 mg/kg/day were either found dead or euthanized by day 14. Six pups were found dead or euthanized early at 30 mg/kg/day, a dose that is 9 times the maximum clinical exposure in pediatric ITP patients at 75 mg/day, based on AUC. In juvenile rats dosed from day 32-63 postpartum, mortality was not observed.

In definitive juvenile toxicity studies in rats, eltrombopag was not associated with adverse effects at doses up to 15 mg/kg/day in pups dosed from Days 4 to 31 pp and 40 mg/kg/day in pups dosed from Days 32 to 63 pp. In rat pups dosed from Days 4 to 31 pp, a dose of 15 mg/kg/day (exposure 5 times the human clinical exposure based on AUC in pediatric ITP patients at 75 mg/day) was associated with slight reductions in body weight gain and slight decreases in red cell parameters with an apparent

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regenerative increase in reticulocyte counts. Discoloration of the skin, fur and other organs (attributed to the color of eltrombopag) was observed in rat pups at very high systemic exposure and was reversible following an off-treatment period. In rat pups dosed from Days 32 to 63 pp, a dose of 40 mg/kg/day was associated with similar slight changes in red blood cell parameters and slight decreases in serum cholesterol and triglyceride concentrations.

Cataracts were observed in mice and rats. Development of cataracts is dose-, time- and age-dependent, i.e. the young rapidly developing lens epithelium of the mouse, was more susceptible than the older, developmentally quiescent lens epithelium. At non-tolerated doses (9 times the maximum human clinical exposure in pediatric ITP patients at 75 mg/day, based on AUC) in pre-weaning juvenile rats dosed from Days 4-32 pp (approximately equating to a 2-year old human at the end of the dosing period), ocular opacities were observed. Cataracts were not observed in juvenile rats given tolerated doses at 5 times the human clinical exposure in pediatric ITP patients, based on AUC. In young mice (6 weeks of age at initiation of dosing) given 150 mg/kg eltrombopag, development of cataracts was observed with an onset of approximately 6 to 7 weeks at 5 times the maximum human clinical exposure in pediatric ITP patients at 75 mg/day, based on AUC. However, in mice 26-weeks of age at the initiation of dosing, a dose of 150 mg/kg/day did not cause cataract formation.

17 SUPPORTING PRODUCT MONOGRAPHS

1. REVOLADE® (eltrombopag), Film-Coated Tablets, 25 mg and 50 mg, submission control number 247826, Product Monograph, Novartis Pharmaceuticals Canada Inc. Nov 03, 2021.

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PATIENT MEDICATION INFORMATION

READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

PrTeva-Eltrombopag

Eltrombopag tablets

Read this carefully before you start taking **Teva-Eltrombopag** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **Teva-Eltrombopag**.

Serious Warnings and Precautions

Your risk of experiencing liver problems is increased if you have chronic (long-term) liver disease and you take Teva-Eltrombopag with pegylated interferon and ribavirin (drugs used to treat hepatitis C). The side effects you may experience can include liver failure and death. Your healthcare professional may monitor your liver symptoms closely while you are taking Teva-Eltrombopag.

What is Teva-Eltrombopag used for?

- Chronic immune thrombocytopenia (ITP): Teva-Eltrombopag is used to treat chronic immune thrombocytopenia (ITP) in adults and children (1 year of age and older). ITP is a bleeding disorder caused by a low blood platelet count. Teva-Eltrombopag is taken:
 - o to increase platelet counts.
 - o when other medications have not worked.
- Severe Aplastic Anemia (SAA): Teva-Eltrombopag is used to treat adults with low blood counts
 caused by severe aplastic anemia (SAA). SAA is a disease in which the body is not producing enough
 red blood cells, white blood cells and platelets. Teva-Eltrombopag is used when other drugs don't
 work.
- Chronic hepatitis C (HCV) associated thrombocytopenia: Teva-Eltrombopag is used to treat HCV infections. Many patients with HCV have low platelet counts due to some of the medicines that are used to treat the disease. Taking Teva-Eltrombopag may make it easier to complete a full treatment plan of antiviral medicine.

How does Teva-Eltrombopag work?

Teva-Eltrombopag is believed to act in the similar way as thrombopoietin, which is a hormone made by the body. Thrombopoietin activates the production of platelets by attaching to certain targets in the bone marrow. The medicinal ingredient in Teva-Eltrombopag, eltrombopag, attaches to the same targets in the bone marrow and activates the production of platelets. This leads to an increased production of platelets, improving platelet counts and other types of blood cells.

What are the ingredients in Teva-Eltrombopag?

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Medicinal ingredients: eltrombopag as eltrombopag olamine

Non-medicinal ingredients: Microcrystalline cellulose, mannitol, povidone, sodium starch glycolate, colloidal anhydrous silica, talc, magnesium stearate, hypromellose, titanium dioxide, macrogol. Teva-Eltrombopag 50 mg tablets also contains iron oxide yellow and iron oxide red.

Teva-Eltrombopag comes in the following dosage forms:

Tablets: 25 mg and 50 mg.

Do not use Teva-Eltrombopag if:

- you are allergic to Teva-Eltrombopag or to any of its other ingredients
- you have severe liver problems

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take Teva-Eltrombopag. Talk about any health conditions or problems you may have, including if you:

- Have liver problems.
- Have kidney problems.
- Have a history of formation of a clot inside a blood vessel, obstructing the flow of blood (thrombosis), or you know that thrombosis occurs frequently in your family. The risk of blood clots may be increased in certain conditions. For example if you: are elderly, have been bedridden, have cancer, are taking the birth control pill, or hormone replacement therapy, have recently had surgery or had an injury, are overweight, if you are a smoker.
- Have a blood condition caused by chemotherapy or have another blood condition, such as
 myelodysplastic syndrome (MDS). Your healthcare professional will carry out tests to check that
 you do not have this blood condition before you start Teva-Eltrombopag. If you have MDS and take
 Teva-Eltrombopag, your MDS may get worse.
- Are taking direct acting antiviral drugs to treat chronic hepatitis C virus.
- Have a history of problems with sight (cataracts). Taking Teva-Eltrombopag may cause the development of cataracts (a clouding of the lens in the eye). Your healthcare professional may recommend eye examinations before and during your treatment with Teva-Eltrombopag.
- Are pregnant or plan to become pregnant. You should avoid becoming pregnant while taking Teva-Eltrombopag. Use effective birth control during treatment. Tell your healthcare professional right away if you become pregnant or think you may be pregnant during treatment with Teva-Eltrombopag.
- Are breast-feeding or planning to breastfeed. Breast-feeding is not recommended while you are taking Teva-Eltrombopag.
- Are over 65 years of age.
- Are of Asian descent.

Other warnings you should know about:

Pegylated interferon and ribavirin drugs

Read the Product Monograph for these two drugs (pegylated interferon and ribavirin) for their key safety information. Both are used with Teva-Eltrombopag when you are being treated for HCV and ITP.

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Ending treatment with Teva-Eltrombopag

If you stop taking Teva-Eltrombopag, your blood platelet count is likely to become low again within weeks. This may increase your risk of bleeding. The risk is increased if you are taking blood thinner medications when you end treatment with Teva-Eltrombopag. The platelet count will be monitored, and your healthcare professional will discuss appropriate therapy with you.

Monitoring and tests:

Your healthcare professional will conduct the following tests:

- Blood test: Before you start taking Teva-Eltrombopag, blood tests will be conducted to check your blood cells, including platelets. These tests will also be completed throughout and following the end of your treatment with Teva-Eltrombopag. Your Healthcare professional may modify your dosage if your platelet levels are too high.
- Liver function test: You will have blood tests to check your liver function before you start taking
 Teva-Eltrombopag and during your treatment. Your Healthcare professional may need to stop your
 treatment if your liver function test shows signs of liver damage
- Bone marrow exam: Your healthcare professional may examine your bone marrow before, during and after treatment with Teva-Eltrombopag. Your Healthcare professional may end your treatment if new genetic disorders are identified.

Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.

The following may interact with Teva-Eltrombopag:

- Antacid medicines to treat stomach ulcers, indigestion or heartburn
- Certain medicines used to lower cholesterol (statins)
- Minerals such as aluminum, calcium, iron, magnesium, selenium and zinc which may be found in mineral supplements.
- Cyclosporine and lopinavir/ritonavir (medicines to treat HIV infection). Your healthcare professional
 will monitor your platelet counts if you take Teva-Eltrombopag with cyclosporine and
 lopinavir/ritonavir.

Do **NOT** take Teva-Eltrombopag with dairy products. Examples include but not limited to are:

- Milk
- Ice cream
- Yogurt

Teva-Eltrombopag may be taken with food low in calcium, such as:

- Fruits such as pineapple, raisins and strawberries
- Lean ham, chicken or beef
- Unfortified fruit juice, soy milk and grain. (Unfortified means no added calcium, magnesium or iron).

Speak to your healthcare professional about the most suitable meals to be eaten while you are taking Teva-Eltrombopag.

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How to take Teva-Eltrombopag:

- Swallow tablets whole with some water. **Do NOT** crush tablets and then mix with food or liquids. If your child is not able to swallow the tablets whole, talk to your healthcare professional.
- To help your body absorb the medicine properly, take Teva-Eltrombopag at least **2 hours before or 4 hours after** you take:
 - antacid medication (to treat indigestion);
 - mineral supplements (such as aluminium, calcium, iron, magnesium, selenium or zinc),
 or
 - dairy products.
- One way to avoid issues with these products would be to take them in the morning and take Teva-Eltrombopag in the evening. Ask your healthcare professional for advice if you are unsure.
- Take Teva-Eltrombopag as long as your healthcare professional advises you to do so. Your daily dose may change depending on your response to Teva-Eltrombopag or the condition of your liver.
- Do not take Teva-Eltrombopag for more than one year at a time if you are being treated for HCV
 Associated Thrombocytopenia. Your treatment should be reassessed by your healthcare
 professional after one year. Once your anti-viral therapy ends, treatment with Teva-Eltrombopag
 will be stopped

<u>Usual adult dose: (18 years and older):</u>

For ITP and SAA treatment:

The recommended <u>starting</u> dose for <u>ITP and SAA treatment</u>: 50 mg once a day. The <u>maximum</u> recommended dose for <u>ITP treatment</u>: 75 mg once a day.

The maximum recommended dose for SAA treatment: 150 mg once a day.

For HCV treatment:

The recommended <u>starting</u> dose: 25 mg once a day. The <u>maximum</u> recommended dose: 100 mg once a day

For HCV, ITP and SAA treatment (East/Southeast-Asian origin):

The recommended starting dose: 25 mg once a day.

<u>Usual children dose (1 to 17 years old):</u>

For ITP treatment:

The recommended starting dose for 1 to 5 years of age: 25 mg once a day.

The recommended starting dose for 6 to 17 years of age: 50 mg once a day.

The recommended <u>starting</u> dose for <u>6 to 17 years of age of East/Southeast-Asian origin</u>: 25 mg once a day.

Overdose:

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If you think you, or a person you are caring for, have taken too much Teva-Eltrombopag, contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

Missed Dose:

If you missed a dose of this medication, take it as soon as you remember. But if it is almost time for your next dose, skip the missed dose and continue with your next scheduled dose. Go back to the regular dosing schedule. Do not take two doses at the same time.

What are possible side effects from using Teva-Eltrombopag?

These are not all the possible side effects you may have when taking Teva-Eltrombopag. If you experience any side effects not listed here, tell your healthcare professional.

The side effects of Teva-Eltrombopag are:

- Abdominal pain/discomfort
- Abnormal colour of urine or feces
- Altered sense of taste
- Back pain
- Chills
- Cold sweats
- Constipation, passing gas
- Cough, runny nose
- Enlarged tonsils
- Decreased or increased appetite
- Diarrhea
- Dry mouth
- Fatigue
- Feeling unwell, feeling pain
- Fever or feeling hot
- Groin pain
- Headache
- Head lice
- Increased sweating
- Indigestion
- Itchy skin, rash, red or purple round spots on skin
- Lack of energy, weakness
- Motion sickness
- Muscle spasms
- Nausea
- Night sweats
- Shortness of breath when walking
- Sleepiness or trouble sleeping
- Swelling of face, arms, legs, hands, ankles or feet
- Swollen/inflamed wounds

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- Toothache
- Vomiting
- Weight loss

Teva-Eltrombopag can cause abnormal blood test results. Your doctor will decide when to perform blood tests and will interpret the results.

Coviews side offects and what to do about them				
Serious side effects and what to do about them				
	Talk to your healthcare		Stop taking	
Symptom / effect	•	ssional	drug and get	
	Only if	In all cases	immediate	
	severe		medical help	
VERY COMMON				
Bone marrow changes: anemia, weakness and fatigue				
due to decreased red blood cells, infections due to		V		
decreased white blood cells, bruising due to low blood		,		
platelets				
Decreased red blood cells: fatigue, loss of energy,		V		
weakness, shortness of breath		V		
Febrile neutropenia: fever with low white blood cell		V		
count		٧		
Upper respiratory tract infection: runny nose, nasal		V		
congestion, cough, and sneezing		V		
COMMON				
Anxiety: feelings of nervousness, restlessness, or panic,				
increased heart rate, rapid breathing (hyperventilation),		٧		
sweating, trembling, trouble sleeping				
Aseptic Meningitis (inflammation of the protective lining				
of the brain that is not caused by infection): fever,		V		
headache, stiff neck, sensitivity to light, loss of appetite,		l v		
nausea/vomiting				
Blood clots: swelling, pain or tenderness in one part of the				
body, sudden shortness of breath especially when				
accompanied with sharp pain in the chest and/or rapid		٧		
breathing, abdominal pain, enlarged abdomen, blood in				
stool				
Bulimia nervosa (Eating Disorder): preoccupation with				
weight/weight gain, repeated episodes of eating large		.,		
amounts of food in one sitting (binging), forced vomiting		٧		
or exercise for the purpose of weight loss				
Depression: difficulty sleeping or sleeping too much,				
changes in appetite or weight, feelings of worthlessness,				
guilt, regret, helplessness or hopelessness, withdrawal		٧		
from social situations, family, gatherings and activities				
with friends, reduced libido (sex drive)				

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Serious side effects and what to do about them				
	Talk to your	healthcare	Stop taking	
Symptom / effect	Symptom / effect professional		drug and get	
	Only if	In all cases	immediate	
	severe		medical help	
Eye disorders:				
Cataracts: clouded, blurred or dim vision, seeing halos				
around lights, fading or yellowing of colours				
Blurred Vision				
Dry Eye		√		
Visual impairment: changes in vision				
Eye floaters: spots in vision that appear as specks or				
strings of floating material; spots that move with eye				
movement				
Fainting or dizziness: fainting, dizziness when standing up		-1		
or sitting down		٧		
Hemorrhoids (swollen veins in the wall of your rectum				
and anus): lumps on anus, painful or swollen anus,		_,		
bleeding from anus or rectum, itching or mucus in		٧		
rectum				
High levels of iron in the blood: fatigue, weakness,		-1		
irregular heartbeat, joint pain, stomach pain		٧		
Liver Problems including Hepatitis B and liver tumors:				
jaundice (yellow colour to skin, whites of the eyes),				
unusual dark urine, unusual tiredness, right upper				
stomach area pain, tenderness in the upper right part of		٧		
the abdomen, swollen abdomen, right shoulder pain				
and signs of shock and blood loss, bleeding easily,				
mental disorientation or confusion, sleepiness, coma				
Low blood sugar: thirst, frequent urination, hunger,				
nausea and dizziness, fast heartbeat, tingling trembling,		√		
nervousness, sweating				
Lung infections such as bronchitis and pneumonia:				
cough, production of mucus, fatigue, shortness of breath,		V		
chest discomfort/pain when breathing or coughing,		'		
fever, chills				
Muscle aches: aching muscles, tenderness or weakness		V		
Numbness or tingling of the skin: sensation of tingling,		٧		
pain or numbness in hands, fingers and toes		v		
Oral Problems: herpes infection, bleeding gums, pain,				
burning sensation, swollen tongue, or blisters inside the		٧		
mouth				
Osteoporosis (thin, fragile bones): pain in lower back,				
hips, and feet, difficulty walking, broken bones, abnormal		٧		
curvature of the upper spine, loss of height				

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Serious side effects and what t	o do about the	em	
	healthcare	Stop taking	
Symptom / effect	professional		drug and get
	Only if	In all cases	immediate
	severe		medical help
Pain in the nose and throat: sore throat, pain/discomfort		V	
when swallowing		V	
Sepsis (infection of the blood): rapid heartbeat, fever,			
shaking chills, rapid breathing, nausea, vomiting,		٧	
decreased urination			
Sinus tachycardia (abnormally fast heartbeat): dizziness,		٧	
light headedness, shortness of breath, racing heart		V	
Skin infections redness, swelling, tenderness/pain, fever,		V	
heat, bumps on the skin that are red and painful		V	
Skin or joint injury: pain, inflammation, redness, swelling,			
joint stiffness, decreased joint movement, skin irritation,		٧	
skin infection			
Spleen tissue deaths: severe pain in upper left side of		.,	
abdomen that can radiate to left shoulder		٧	
Unusual hair loss or thinning		٧	
Urinary tract infections: pain and/or burning when		-1	
urinating, blood in the urine, increased urge to urinate		٧	
Viral infection: flu-like symptoms including fever, fatigue,			
headache, body aches, diarrhea, nausea, vomiting		٧	
Vitamin D deficiency: fatigue, bone pain, muscle		-1	
weakness, aches, or cramps, mood changes		٧	
UNCOMMON			
Allergic reactions: rash, hives, swelling of the face, lips,		-,	
tongue or throat, difficulty swallowing or breathing		٧	
Chest pain not caused by heart problems: sharp or			
aching pain in the chest that may worsen when moving		-,	
the torso, raising the arms, when breathing deeply,		٧	
sneezing, or coughing			
Damage occurring inside the kidney leading to loss of			
kidney function: decreased urine, swollen legs, high		٧	
blood pressure		<u> </u>	
Hemorrhage (bleeding problems): Bleeding			
uncontrollably, blood in your stool or urine, long-lasting		,,	
headache, feeling dizzy or confused, nose bleeds,		٧	
coughing up blood, increased bruising			
Pain that affects the muscles, tendons, and bones:		٧	
muscle pain, limb pain, joint pain and bone pain		, v	
Rectal Cancer: change in bowel habits (e.g. more			
frequent bowel movements), dark or narrow stool,		٧	
abdominal pain, weakness			

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Serious side effects and what to do about them					
	Talk to your healthcare		Stop taking		
Symptom / effect	profe	ssional	drug and get		
	Only if	In all cases	immediate		
	severe		medical help		
UNKNOWN					
Skin discolouration: changes to the colour of the skin,		3/			
including darkening (hyperpigmentation) or yellowing		٧			

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, tell your healthcare professional.

Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adverse-reaction-reporting.html)
 for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

Storage:

Store between 15 – 30°C. Keep out of reach and sight of children.

If you want more information about Teva-Eltrombopag:

- Talk to your healthcare professional
 - Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website:
 (https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html; the manufacturer's website
 http://www.tevacanada.com; or by calling 1-800-268-4127 ext. 3; or email druginfo@tevacanada.com.

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