



HIGHLIGHTS OF PRESCRIBING INFORMATION

Initial U.S. Approval: 2008

These highlights do not include all the information needed to use ELTROMBOPAG TABLETS safely and effectively. See full prescribi information for ELTROMBOPAG TABLETS.

WARNING: RISK FOR HEPATIC DECOMPENSATION IN PATIENTS WITH CHRONIC HEPATITIS C and RISK OF HEPATOTOXICITY See full prescribing information for complete boxed warning In patients with chronic hepatitis C, eltrombopag in combination with interferon and ribavirin may increase the risk of hepatic decompensation. (5.1)

discontinue dosing as recommended. (5.2) ---RECENT MAJOR CHANGES -Warnings and Precautions, Laboratory Test Interference (5.6)

Eltrombopag tablet is a thrombopoietin receptor agonist indicated for the treatment of thrombocytopenia in adult and pediatric patients 1 year and older with persistent or chronic immune thrombocyto (ITP) who have had an insufficient response to corticosteroids, immunoglobulins, or splenectomy. Eltrombopag tablets should be used only in patients with ITP whose degree of thrombocytopenia and clinical condition increase the risk for bleeding. (1.1)

----INDICATIONS AND USAGE

for the treatment of thrombocytopenia in patients with chronic hepatitis C to allow the initiation and maintenance of interferon-based therapy Eltrombopag tablets should be used only in patients with chronic hepatitis C whose degree of thrombocytopenia prevents the initiation of nterferon-based therapy or limits the ability to maintain interferon-based therapy. (1.2)

for the treatment of patients with severe aplastic anemia who have had an insufficient response to immunosuppressive therapy. (1.3) Limitations of Use: Eltrombopag tablets are not indicated for the treatment of patients with myelodysplastic syndrome (MDS). (1.4)

Safety and efficacy have not been established in combination with direct-acting antiviral agents used without interferon for treatment of

Take eltrombopag tablets without a meal or with a meal low in calcium ( $\leq$  50 mg). Take eltrombopag tablets at least 2 hours before or 4 hours after any medications or products containing polyvalent cations, such as antacids, calcium-rich foods, and mineral supplements. (2.4, 7.1, 12.3) Persistent or Chronic ITP: Initiate eltrombopag tablets at 50 mg orally once daily for most adult and pediatric patients 6 years and older, and at 25 mg orally once daily for pediatric patients aged 1 to 5 years. Dose reductions are needed for patients with hepatic impairment and some

patients of East-/Southeast-Asian ancestry. Adjust to maintain platelet count greater than or equal to 50 x 10°/L. Do not exceed 75 mg per day. (2.1, 8.6, 8.7)

FULL PRESCRIBING INFORMATION: CONTENTS\* WARNING: RISK FOR HEPATIC DECOMPENSATION IN PATIENTS WITH CHRONIC HEPATITIS C and RISK OF HEPATOTOXICITY

 $Treatment\ of\ Thrombocytopenia\ in\ Patients\ With\ Persistent\ or\ Chronic\ Immune\ Thromboch and the property of\ Chronic\ Immune\ Thromboch and\ Chronic\ Immune\ Thromboch\ Chronic\ Thromboch\ Chronic\ Thromboch\ Chronic\ Thromboch\ Chronic\ Thromboch\ Chronic$ Treatment of Thrombocytopenia in Patients With Hepatitis C Infection Treatment of Severe Aplastic Anemia

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decompensation [see Warnings and Precautions (5.1)]. Eltrombopag tablets may increase the risk of severe and potentially life-threatening hepatotoxicity. Monitor hepatic function and INDICATIONS AND USAGE

1.1 Treatment of Thrombocytopenia in Patients With Persistent or Chronic Immune Thromboc Eltrombopag tablets are indicated for the treatment of thrombocytopenia in adult and pediatric patients 1 year and older with persistent or chronic should be used only in patients with ITP whose degree of thrombocytopenia and clinical condition increase the risk for bleeding.

1.2 Treatment of Thrombocytopenia in Patients With Hepatitis C Infection Itrombopag tablets are indicated for the treatment of thrombocytopenia in patients with chronic hepatitis C to allow the initiation and maintenance interferon-based therapy. Eltrombopag tablets should be used only in patients with chronic hepatitis C whose degree of thrombocytopenia prevents the initiation of interferon-based therapy or limits the ability to maintain interferon-based therapy

Eltrombopag tablets are indicated for the treatment of patients with severe aplastic anemia who have had an insufficient response to

Eltrombopag tablets are not indicated for the treatment of patients with myelodysplastic syndromes (MDS) (see Warnings and Precautions

Safety and efficacy have not been established in combination with direct-acting antiviral agents used without interferon for treatment of Additional pediatric use information is approved for Novartis Pharmaceuticals Corporation's PROMACTA® (eltrombonag) tablets. However, due to

Novartis Pharmaceuticals Corporation's marketing exclusivity rights, this drug product is not labeled with that inform 2 DOSAGE AND ADMINISTRATION

2.1 Persistent or Chronic Immune Thrombocytopenia

west dose of eltrombopag tablets to achieve and maintain a platelet count greater than or equal to 50 x 10°/L as necessary to reduce the risk for bleeding. Dose adjustments are based upon the platelet count response. Do not use eltrombopag tablets to normalize platelet counts (see Warnings and Precautions (5.4). In clinical trials, platelet counts generally increased within 1 to 2 weeks after starting eltrophonage tablets and decreased within 1 to 2 weeks after discontinuing eltrombopag tablets (see Clinical Studies (14.1))

Initial Dose Regimen:

Adult and Pediatric Patients 6 Years and Older with ITP: Initiate eltrombopag tablets at a dose of 50 mg orally once daily, except in patients who are of East-/Southeast-Asian ancestry or who have mild to severe hepatic impairment (Child-Pugh class A, B, C). For patients of East-/Southeast-Asian ancestry with ITP, initiate eltrombonag tablets at a reduced dose of 25 mg grally once daily (see Use in Specific Populations (8.7), Clinical Pharmacology (12.3)].

For patients with ITP and mild, moderate, or severe hepatic impairment (Child-Pugh class A, B, C), initiate eltrombopag tablets at a reduced dose of 25 mg orally once daily *[see Use in Specific Populations (8.6), Clinical Pharmacology (12.3)]*. For patients of East-/Southeast-Asian ancestry with ITP and hepatic impairment (Child-Pugh class A, B, C), consider initiating eltrombopag tablets at a reduced dose of 12.5 mg orally once daily (see Clinical Pharmacology (12.3)). Pediatric Patients with ITP Aged 1 to 5 Years: Initiate eltrombopag tablets at a dose of 25 mg orally once daily /see Use in Specific Populations (8.7), Clinical Pharmacology (12.3)1.

Monitoring and Dose Adjustment: After initiating eltrombopag tablets, adjust the dose to achieve and maintain a platelet count greater than or equal to 50 x 10<sup>9</sup>/L as necessary to reduce the risk for bleeding. Do not exceed a dose of 75 mg daily. Monitor clinical hematology and liver tests regular throughout therapy with eltrombopag tablets and modify the dosage regimen of eltrombopag tablets based on platelet counts as outlined in Table 1 During therapy with eltrombong tablets, assess complete blood counts (CBCs) with differentials, including platelet counts, weekly until a stable platelet count has been achieved. Obtain CBCs with differentials, including platelet counts, monthly thereafter. When switching between the oral suspension and tablet, assess platelet counts weekly for 2 weeks, and then follow standard monthly m

Table 1. Dose Adjustments of Eltrombopag Tablets in Patients With Persistent or Chronic Immune Thrombocytopenia

Platelet count result	Dose adjustment or response
< 50 x 10°/L following at least 2 weeks of	Increase daily dose by 25 mg to a maximum of 75 mg/day.
eltrombopag tablets	For patients taking 12.5 mg once daily, increase the dose to 25 mg daily before increasing the dose amount by 25 mg.
$\geq$ 200 x 10 $^{9}$ /L to $\leq$ 400 x 10 $^{9}$ /L at any time	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 once daily, decrease the dose to 12.5 mg once daily.
> 400 x 10 <sup>9</sup> /L	Stop eltrombopag tablets; increase the frequency of platelet monitoring to twice weekly.
	Once the platelet count is $<$ 150 x 10 $^{\circ}$ /L, reinitiate therapy at a daily dose reduced by 25 mg.
	For patients taking 25 mg once daily, reinitiate therapy at a daily dose of 12.5 mg.
> 400 x 10°/L after 2 weeks of therapy at lowest dose of eltrombopag tablets	Discontinue eltrombopag tablets.

wait 3 weeks before increasing the dose. Modify the dosage regimen of concomitant ITP medications, as medically appropriate, to avoid excessive increases in platelet counts during therapy with eltrombopag tablets. Do not administer more than one dose of eltrombopag tablets within any 24-hour period. Discontinuation: Discontinue eltrombopag tablets if the platelet count does not increase to a level sufficient to avoid clinically important bleeding after 4 weeks of therapy with eltrombopag tablets at the maximum daily dose of 75 mg. Excessive platelet count responses, as outlined in Table 1, or important liver test abnormalities (e.g., transaminases and/or bilirubin) also necessitate discontinuation of eltrombopag tablets [see Warnings and

Precautions (5.2, 5.6) and Drug Interactions (7.5)]. Obtain CBCs with differentials, including platelet counts, weekly for at least 4 weeks following

2.2 Chronic Hepatitis C-Associated Thrombocytopenia Use the lowest dose of eltrombopag tablets to achieve and maintain a platelet count necessary to initiate and maintain antiviral therapy with pegylated stments are based upon the platelet count response. Do not use eltrombopag tablets to normalize platelet nterferon and ribavirin. Dose adju: Warnings and Precautions (5.4)]. In clinical trials, platelet counts generally began to rise within the first week of treatment with eltrombopag tablets

[see Clinical Studies (14.2)] Initial Dose Regimen: Initiate eltrombopag tablets at a dose of 25 mg orally once daily. Monitoring and Dose Adjustment: Adjust the dose of eltrombopag tablets in 25 mg increments every 2 weeks as necessary to achieve the target atelet count required to initiate antiviral therapy. Monitor platelet counts every week prior to starting antiviral then

During antiviral therapy, adjust the dose of eltrombopag tablets to avoid dose reductions of peginterferon. Monitor CBCs with differentials, including nts, weekly during antiviral therapy until a stable platelet count is achieved. Monitor platelet counts monthly thereafter. Do not exceed a dose of 100 mg daily. Monitor clinical hematology and liver tests (e.g., transaminases and bilirubin) regularly throughout therapy with eltrombopag tablets (see Drug Interactions (7.5)). For specific dosage instructions for peginterferon or ribavirin, refer to their respective prescribing information

 $Table\,2.\,Dose\,Adjust ments\,of\,Eltrombopag\,Tablets\,in\,Adults\,With\,Thrombocytopenia\,Due\,to\,Chronic\,Hepatitis\,C$ 

< 50 x 10°/L following at least 2 weeks of eltrombopag tablets	Increase daily dose by 25 mg to a maximum of 100 mg/day.
$\geq 200 \times 10^9 / L$ to $\leq 400 \times 10^9 / L$ at any time	Decrease the daily dose by 25 mg.
	Wait 2 weeks to assess the effects of this and any subsequent dose adjustments.
> 400 x 10°/L	Stop eltrombopag tablets; increase the frequency of platelet monitoring to twice weekly.
	Once the platelet count is $< 150 \times 10^{9}$ /L, reinitiate therapy at a daily dose reduced by 25 mg.
	For patients taking 25 mg once daily, reinitiate therapy at a daily dose of 12.5 mg.
> 400 x 10°/L after 2 weeks of therapy at lowest dose of eltrombopag tablets	Discontinue eltrombopag tablets.

important liver test abnormalities also necessitate discontinuation of eltrombopag tablets (see Warnings and Precautions (5.2)). 2.3 Severe Anlastic Anemia Refractory Severe Aplastic Anemia

Use the lowest dose of eltrombopag tablets to achieve and maintain a hematologic response. Dose adjustments are based upon the platelet coun Hematologic response requires dose titration, generally up to 150 mg, and may take up to 16 weeks after starting eltrombopag tablets /see Clinical Studies (14.3)]

Initial Dose Regimen: Initiate eltrombopag tablets at a dose of 50 mg orally once daily For patients with severe aplastic anemia of East-/Southeast-Asian ancestry or those with mild, moderate, or severe hepatic impairment (Child-Pugh class A, B, C), initiate eltrombopag tablets at a reduced dose of 25 mg orally once daily /see Use in Specific Populations (8.6, 8.7), Clinical Pharmacology (12.3)]. Monitoring and Dose Adjustment: Adjust the dose of eltrombopag tablets in 50 mg increments every 2 weeks as necessary to achieve the target platelet count greater than or equal to 50 x 10°/L as necessary. Do not exceed a dose of 150 mg daily. Monitor clinical hematology and liver tests

regularly throughout therapy with eltrombopag tablets and modify the dosage regimen of eltrombopag tablets based on platelet counts as outlined in Table 7. able 7. Dose Adjustments of Eltrombopag Tablets in Patients With Refractory Severe Aplastic Anemia

Platelet count result
< 50 x 10°/L following at least 2 weeks of Dose adjustment or respons Increase daily dose by 50 mg to a maximum of trombopag tablets For patients taking 25 mg once daily, increase the dose to 50 mg daily before increasing the dose amount by 50 mg. ≥ 200 x 10<sup>9</sup>/L to ≤ 400 x 10<sup>9</sup>/L at any time Decrease the daily dose by 50 mg. Wait 2 weeks to assess the effects of this and any

based on folding size.

•	Chronic Hepatitis C-associated Thrombocytopenia: Initiate eltrombopag tablets at 25 mg orally once daily for all patients. Adjust to achieve
	target platelet count required to initiate antiviral therapy. Do not exceed a daily dose of 100 mg. (2.2)
•	Refractory Severe Aplastic Anemia: Initiate eltrombopag tablets at 50 mg orally once daily. Reduce initial dose in patients with hepatic impairment

	8.7)
	DOSAGE FORMS AND STRENGTHS
•	Tablets: 12.5 mg, 25 mg, 50 mg, and 75 mg (3)
	CONTRAINDICATIONS
None.	(4)
	WARNINGS AND PRECAUTIONS
•	Hepatotoxicity: Monitor liver function before and during therapy. (5.2)
_	Ingressed Diely of Death and Draggessian of Musladyanlastic Cundyames to Acute Muslaid Laukemia (E.2)

Thrombotic/Thromboembolic Complications: Portal vein thrombosis has been reported in patients with chronic liver disease receiving --ADVERSE REACTIONS--Across all indications, the most common adverse reactions (  $\geq 20\%$  in any indication) were: anemia, nausea, pyrexia, alanine aminotransferase

To report SUSPECTED ADVERSE REACTIONS, contact Annora Pharma Private Limited at 1-866-495-1995 or FDA at 1-800-FDA-1088 or

 Lactation: Advise women not to breastfeed during treatment. (8.2) See 17 for PATIENT COUNSELING INFORMATION and Medication Guide Additional pediatric use information is approved for Novartis Pharmaceuticals Corporation's PROMACTA® (eltrombopag) tablets. However, due to

Novartis Pharmaceuticals Corporation's marketing exclusivity rights, this drug product is not labeled with that information

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Platelet count result	Dose adjustment or response
> 400 x 10°/L	Stop eltrombopag tablets for 1 week.
> 400 X 10 /L	Once the platelet count is $< 150 \times 10^9$ /L, reinitiate therapy at a dose reduced by 50 mg
> 400 x 10°/L after 2 weeks of therapy at	Discontinue eltrombopag tablets.
lowest dose of eltrombopag tablets	

reduced by 50% (see Clinical Studies (14.3)). If counts remain stable after 8 weeks at the reduced dose, then discontinue eltrombopag tablets and or blood counts. If platelet counts drop to less than 30 x 10°/L, hemoglobin to less than 9 g/dL, or absolute neutrophil count (ANC) to less than 0.5 x 10°/L, eltrombopag tablets may be reinitiated at the previous effective dose

<u>Discontinuation</u>: If no hematologic response has occurred after 16 weeks of therapy with eltrombopag tablets, discontinue therapy. If new cytogenetic abnormalities are observed, consider discontinuation of eltrombopag tablets *(see Adverse Reactions (6.1))*. Excessive platelet count ses (as outlined in Table 7) or important liver test abnormalities also necessitate discontinuation of eltrombopag tablets (see Warnings and

2.4 Administration Administration of Tablets: Take eltrombopag tablets without a meal or with a meal low in calcium (  $\leq 50$  mg). Take eltrombopag tablets at least 2 hours before or 4 hours after other medications (e.g., antacids), calcium-rich foods (containing > 50 mg calcium e.g., dairy products, calcium-fortified juices, and certain fruits and vegetables), or supplements containing polyvalent cations, such as iron, calcium, aluminum, magnesium, selenium, and zinc [see Drug Interactions (7.1), Clinical Pharmacology (12.3)]. Do not split, chew, or crush tablets and mix with food or liquids

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### DOSAGE FORMS AND STRENGTHS

- 12.5 mg tablets Off-white, round, bevel edged, biconvex film-coated tablets debossed with 'H' on one side and 'E10' on the other side. Each Tablet, for oral administration, contains elfrombopag clamine, equivalent to 12.5 mg of elfrombopag free acid.

  25 mg tablets — Beige colored, round, bevel edged, biconvex film-coated tablets debossed with 'H' on one side and 'E11' on the other side. Each
- tablet, for oral administration, contains eltrombopag clamine, equivalent to 25 mg of eltrombopag free acid. 50 mg tablets — Off-white, round, bevel edged, biconvex film-coated tablets debossed with 'H' on one side and 'E12' on the other side. Each tablet, for oral administration, contains eltrombopag olamine, equivalent to 50 mg of eltrombopag free acid.  $75\,mg\,tablets - Off\text{-}white\,to\,light\,yellow\,colored,\,round,\,bevel\,edged,\,biconvex\,film\text{-}coated\,tablets\,debossed\,with\,'H'\,on\,one\,side\,and\,'E13'\,on$

the other side. Each tablet, for oral administration, contains eltrombopag olamine, equivalent to 75 mg of eltrombopag free acid. CONTRAINDICATIONS

WARNINGS AND PRECAUTIONS Hepatic Decompensation in Patients With Chronic Hepatitis C

In patients with chronic hepatitis C, eltrombopag in combination with interferon and ribavirin may increase the risk of hepatic decompensation. In two controlled clinical trials in patients with chronic hepatitis C and thrombocytopenia, ascites and encephalopathy occurred more frequently on the arm eiving treatment with eltrombopag plus antivirals (7%) than the placebo plus antivirals arm (4%). Patients with low albumin levels (less that  $3.5\,\mathrm{g}(\mathrm{dL})$  or Model for End-Stage Liver Disease (MELD) score greater than or equal to 10 at baseline had a greater risk for hepatic decompensation on the arm receiving treatment with eltrombopag plus antivirals. Discontinue eltrombopag if antiviral therapy is discontinued

 $\dot{}$  bopag may increase the risk of severe and potentially life-threatening hepatotoxicity [see Adverse Reactions (6.1]]. One patient ( < 1%) with ITP treated with eltrombopag in clinical trials experienced drug-induced liver injury. Eleven patients (1%) with chronic hepatitis C treated with

<u>Treatment of ITP, Chronic Hepatitis C-associated Thrombocytopenia, and Refractory Severe Aplastic Anemia</u>

Measure serum ALT, AST, and bilirubin prior to initiation of eltrombopag, every 2 weeks during the dose adjustment phase, and monthly following establishment of a stable dose [see Drug Interactions (7.5]]. Eltrombopag inhibits UDP-glucuronosyltransferase (UGT)1A1 and organic anion transporting polypeptide (DATP)1B1, which may lead to indirect hyperbilirubinemia. If bilirubin is elevated, perform fractionation. Evaluate abnormal serum liver tests with repeat testing within 3 to 5 days. If the abnormalities are confirmed, monitor serum liver tests weekly until resolved or stabilized. Discontinue eltrombopag if ALT levels increase to greater than or equal to 3 x ULN in patients with normal liver function or greater than or equal to 3 x  $base line (or greater than 5 \, x \, ULN, which ever is the lower) in patients with pre-treatment elevations in transactions and the state of the lower in the lo$ 

 progressively increasing, or persistent for greater than or equal to 4 weeks, or accompanied by increased direct bilirubin, or

accompanied by clinical symptoms of liver injury or evidence for hepatic decompensation If the potential benefit for reinitiating treatment with eltrombopag is considered to outweigh the risk for hepatotoxicity, then consider cautiously reintroducing eltrombopag and measure serum liver tests weekly during the dose adjustment phase. Hepatotoxicity may reoccur if eltrombopag is reinitiated. If liver test abnormalities persist, worsen, or recur, then permanently discontinue eltrombopag.

5.3 Increased Risk of Death and Progression of Myelodysplastic Syndromes to Acute Myeloid Leukemi A randomized, double-blind, placebo-controlled, multicenter trial in patients with International Prognostic Scoring System (IPSS) intermediateintermediate-2 or high risk MDS with thrombocytopenia, receiving azacitidine in combination with either eltrombopag (n = 179) or placebo (n = 177) was terminated due to lack of efficacy and safety reasons, including increased progression to acute mybel deutmia (AML). Patients receivellrombopag 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 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 (19.97, 2.08), showing an increased relative risk of death in this trial 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 [1.31, 5.41], showing an increased relative risk of progression to AML in this trial by 166% in the eltrombopag arm).

5.4 Thrombotic/Thromboembolic Complication Thrombotic/thromboembolic complications may result from increases in platelet counts with eltrombopag. Reported thrombotic/thromboembolic complications included both venous and arterial events and were observed at low and at normal platelet coun

Consider the potential for an increased risk of thromboembolism when administering eltrombogag to patients with known risk factors for olism (e.g., Factor V Leiden, ATIII deficiency, antiphospholipid syndrome, chronic liver disease). To minimize the risk fo thrombotic/thromboembolic complications, do not use eltrombopag in an attempt to normalize platelet counts. Follow the dose adjustment guidelines to achieve and maintain target platelet counts /see Dosage and Administration (2.1, 2.2, 2.3)). In two controlled clinical trials in patients with chronic hepatitis C and thrombocytopenia, 3% (31/955) treated with eltrombopag experienced a thrombotic event compared with 1% (5/484) on placebo. The majority of events were of the portal venous system (1% in patients treated with eltrombopag versus less than 1% for placebo).

In a controlled trial in patients with chronic liver disease and thrombocytopenia not related to ITP undergoing elective invasive procedures (N = 292), the risk of thrombotic events was increased in patients treated with 75 mg of eltrombopag once daily. Seven thrombotic complications (six patients) were reported in the group that received eltrombopag and three thrombotic complications were reported in the group that received eltrombopag and three thrombotic complications were reported in the placebo group (two patients). All of the thrombotic complications reported in the group that received eltrombopag were portal vein thrombosis (PVT). Symptoms of PVT included abdominal pain, nausea, vomiting, and diarrhea. Five of the six patients in the group that received eltrombopag experienced a thrombotic complication within 30 lays of completing treatment with eltrombopag and at a platelet count above 200 x 10°/L. The risk of portal venous thrombosis was increased in  $thrombocy topenic patients \ with \ chronic \ liver \ disease \ treated \ with \ 75 \ mg \ of \ eltrombopag \ once \ daily \ for \ 2 \ weeks \ in \ preparation \ for \ invasive \ procedures.$ 

5.5 Cataracts the three controlled clinical trials in adults with persistent or chronic ITP, cataracts developed or worsened in 15 (7%) patients who received 50 mg of eltrombopag daily and 8 (7%) placebo-group patients. In the extension trial, cataracts developed or worsened in 11% of patients who underwent ocular examination prior to therapy with eltrombopag. In the two controlled clinical trials in patients with chronic hepatitis C and thrombocytopenia, cataracts developed or worsened in 8% of patients treated with eltrombopag and 5% of patients treated with placebo. Cataracts were observed in toxicology studies of eltrombopag in rodents [see Nonclinical Toxicology (13.2)]. Perform a baseline ocular examination prior to administration of eltrombopag and, during therapy with eltrombopag, regularly monitor patients for signs and symptoms of cataracts.

5.6 Laboratory Test Interference ombopag is highly colored and can cause patient sample discoloration, which can interfere with some clinical laboratory tests. Inaccurate tes results that are inconsistent with clinical observations may occur for multiple clinical chemistry tests including bilirubin and creatinine. In addition,

other lab tests may be impacted, including but not limited to total protein and albumin, and incorrect test results may be generated if there is eltrombopag in the patient's specimen. Communicate to the lab conducting the testing if your patient is taking eltrombopag. Re-testing using other methods may also help in determining the validity of the test results (see Drug Interactions (7.5)). Additional pediatric use information is approved for Novartis Pharmaceuticals Corporation's PROMACTA\* (eltrombopag) tablets. However, due to Novartis Pharmaceuticals Corporation's marketing exclusivity rights, this drug product is not labeled with that information in the contract of ADVERSE REACTIONS The following clinically significant adverse reactions associated with eltrombopag are described in other sections

Hepatic Decompensation in Patients with Chronic Hepatitis C (see Warnings and Precautions (5.1)) Hepatotoxicity (see Warnings and Precautions (5.2))

eased Risk of Death and Progression of Myelodysplastic Syndromes to Acute Myeloid Leukemia (see Warnings and Precaution

Thrombotic/Thromboembolic Complications (see Warnings and Precautions (5.4)) Cataracts (see Warnings and Precautions (5.5))

6.1 Clinical Trials Experience Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared with rates in the clinical trials of another drug and may not reflect the rates observed in practice Persistent or Chronic Immune Thrombocytopenia

Adults: In clinical trials, hemorrhage was the most common serious adverse reaction and most hemorrhagic reactions followed discontinuation of rombopag. Other serious adverse reactions included thrombotic/thromboembolic complications [see Warnings and Precautions (5.4)]. The data described below reflect exposure of eltrombopag to patients with persistent or chronic ITP aged 18 to 85 years, of whom 66% were female, in three bo-controlled trials and one open-label extension trial [see Clinical Studies (14.1)]. Eltrombopag was administered to 330 patients for at least 6 months and 218 patients for at least 1 year.

Table 8 presents the most common adverse drug reactions (experienced by greater than or equal to 3% of patients receiving eltrombopag) from the three placebo-controlled trials, with a higher incidence in eltrombopag versus placebo Table 8. Adverse Reactions (≥ 3%) From Three Placebo-controlled Trials in Adults With Persistent or Chronic Immune Thrombocytopenia

	Eltrombopag 50 mg n = 241	Placebo n = 128
Adverse reaction	(%)	(%)
Nausea	9	3
Diarrhea	9	7
Upper respiratory tract infection	7	6
Vomiting	6	< 1
Urinary tract infection'	5	4
Ingrapand ALT	E	2

Adverse reaction	Eltrombopag 50 mg n = 241 (%)	Placebo n = 128 (%)
Myalgia	5	2
Oropharyngeal pain	4	3
Increased AST	4	2
Pharyngitis	4	2
Back pain	3	2
Influenza	3	2
Paresthesia	3	2
Rash	3	2

In the three controlled clinical persistent or chronic ITP trials, alopecia, musculoskeletal pain, blood alkaline phosphatase increased, and dry mouth were the adverse reactions reported in 2% of patients treated with eltrombopag and in no patients who received placebo.

Among 302 patients with persistent or chronic ITP who received eltrombopag in the single-arm extension trial, the adverse reactions occurred in a pattern similar to that seen in the placebo-controlled trials. Table 9 presents the most common treatment-related adverse reactions (experienced by greater than or equal to 3% of patients receiving eltrombopag) from the extension trial. Table 9. Treatment-related Adverse Reactions ( $\geq$  3%) From Extension Trial in Adults With n = 302

Headache Nausea

In the three controlled persistent or chronic ITP trials, serum liver test abnormalities (predominantly Grade 2 or less in severity) were reported in 11% and 7% of patients for eltrombopag and placebo, respectively. Four patients (1%) treated with eltrombopag and three patients in the placebo group (2%) discontinued treatment due to hepatobiliary laboratory abnormalities. Seventeen of the patients treated with eltrombopag in the controlled trials with hepatobiliary laboratory abnormalities were re-exposed to eltrombopag in the extension trial. Eight of these patients again experienced liver tes six additional patients had eltrombopag discontinued due to liver test abnormalities (less than or equal to Grade 3). In the three controlled persistent or chronic ITP trials, cataracts developed or worsened in 7% of patients treated with eltrombopag and 7% of patients

in the placebo group. All patients had documented, preexisting risk factors for cataractogenesis, including corticosteroid use. In the extension trial, patients had preexisting risk factors, including corticosteroid use. The safety of eltrombopag was also assessed in all patients treated in 7 adult persistent or chronic ITP clinical trials (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% of eltrombopag-treated patients versus 0% of

In a placebo-controlled trial of eltrombopag in patients with chronic liver disease and thrombocytopenia not related to ITP, six patients treated with eltrombopag and one patient in the placebo group developed portal vein thromboses [see Warnings and Precautions (5.4)]. Pediatric Patients: The data described below reflect median exposure to eltrombopag of 91 days for 107 pediatric patients (aged 1 to 17 years) with persistent or chronic ITP, of whom 53% were female, across the randomized phase of two placebo-controlled trials Table 10 presents the most common adverse drug reactions (experienced by greater than or equal to 3% of pediatric patients 1 year and older receiving

eltrombopag) across the two placebo-controlled trials, with a higher incidence for eltrombopag versus placeb Table 10. Adverse Reactions (≥ 3%) With a Higher Incidence for Eltrombopag Versus Placebo From Two Placebo-controlled Trials in

	Eltrombopag	Placebo
	n = 107	n = 50
Adverse reaction	(%)	(%)
Upper respiratory tract infection	17	6
Nasopharyngitis	12	4
Cough	9	0
Diarrhea	9	2
Pyrexia	9	8
Abdominal pain	8	4
Oropharyngeal pain	8	2
Toothache	6	0
ALT increased <sup>a</sup>	6	0
Rash	5	2
AST increased	4	0
Rhinorrhea	4	0

Includes adverse reactions or laboratory abnormalities > 3 x ULN In the two controlled clinical persistent or chronic ITP trials, cataracts developed or worsened in 2 (1%) patients treated with eltrombopag. Both

patients had received chronic oral corticosteroids, a risk factor for cataractogenesis Chronic Hepatitis C-associated Thrombocytopenia: In the two placebo-controlled trials, 955 patients with chronic hepatitis C-asso

thrombocytopenia received eltrombopag. Table 11 presents the most common adverse drug reactions (experienced by greater than or equal to 10% of Table 11. Adverse Reactions ≥ 10% and Greater Than Placebo) From Two Placebo-controlled Trials in Adults With Chronic Hepatitis C

_	Eltrombopag + Peginterferon/Ribavirin n = 955	Placebo + Peginterferon/Ribavirin n = 484
Adverse reaction	(%)	(%)
Anemia	40	35
Pyrexia	30	24
Fatigue	28	23
Headache	21	20
Nausea	19	14
Diarrhea	19	11
Decreased appetite	18	14
Influenza-like illness	18	16
Insomnia <sup>a</sup>	16	15
Asthenia	16	13
Cough	15	12
Pruritus	15	13
Chills	14	9
Myalgia	12	10
Alopecia	10	6
Peripheral edema	10	5

Rash was reported in 9% and 7% of patients receiving eltrombopag and placebo, respectively.

In the two controlled clinical trials in patients with chronic hepatitis C, hyperbilirubinemia was reported in 8% of patients receiving eltrombopat  $compared with \, 3\% \, for \, place bo. \, Total \, bilirubin \, greater \, than \, or \, equal \, to \, 1.5 \, x \, ULN \, was \, reported \, in \, 76\% \, and \, 50\% \, of \, patients \, receiving \, eltrombopag \, and \, 50\% \, or \,$ placebo, respectively. ALT or AST greater than or equal to 3 x ULN was reported in 34% and 38% of patients for eltrombopag and placebo, In the two controlled clinical trials in patients with chronic hepatitis C. cataracts developed or worsened in 8% of patients treated with eltrombopag

The safety of eltrombopag was also assessed in all patients treated with eltrombopag in the two controlled trials, including patients who initially received eltrombopag in the pre-antiviral treatment phase of the trial and were later randomized to the placebo arm (N = 1520 eltrombopag-treated patients). Hepatic failure was reported in 0.8% of eltrombopag-treated patients and 0.4% of placebo-treated patients. Severe Aplastic Anemia: Refractory Severe Anlastic Anemia

In the single-arm, open-label trial, 43 patients with refractory severe aplastic anemia received eltrombopag. Eleven patients (26%) were treated fo greater than 6 months and 7 patients (16%) were treated for greater than 1 year. The most common adverse reactions (greater than or equal to 20%) nausea, fatigue, cough, diarrhea, and headache. Table 13. Adverse Reactions (≥ 10%) From One Open-label Trial in Adults With Refractory Severe Aplastic Anemia

	Eltrombopag n = 43	
Adverse reaction	(%)	
Nausea	33	
Fatigue	28	
Cough	23	
Diarrhea	21	
Headache	21	7
Pain in extremity	19	
Pyrexia	14	
Dizziness	14	1
Oropharyngeal pain	14	7
Abdominal pain	12	1
Muscle spasms	12	7
Transaminases increased	12	1
Δrthralnia	12	_

Rash and hyperbilirubinemia were reported in 7% of patients; cataract was reported in 2% of patients In this trial, concurrent ALT or AST greater than 3 x ULN with total bilirubin greater than 1.5 x ULN were reported in 5% of patients. Total bilirubin greater than 1.5 x ULN occurred in 14% of patients. In this trial, patients had bone marrow aspirates evaluated for cytogenetic abnormalities. Eight patients had a new cytogenetic abnormality reported on therapy, including 5 patients who had complex changes in chromosome 7

6.2 Postmarketing Experience The following adverse reactions have been identified during post approval use of eltrombopag. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate the frequency or establish a causal relationship to drug exposure Skin and Subcutaneous Tissue Disorders: Skin discoloration, including hyperpigmentation and skin yellowing.

Additional pediatric use information is approved for Novartis Pharmaceuticals Corporation's PROMACTA" (eltrombopag) tablets. However, due to Novartis Pharmaceuticals Corporation's marketing exclusivity rights, this drug product is not labeled with that information DRUG INTERACTIONS 7.1 Polyvalent Cations (Chelation

Eltrombopag chelates polyvalent cations (such as iron, calcium, aluminum, magnesium, selenium, and zinc) in foods, mineral supplements, and Take eltrombopag at least 2 hours before or 4 hours after any medications or products containing polyvalent cations, such as antacids, dairy products and mineral supplements to avoid significant reduction in absorption of eltrombopag due to chelation [see Dosage and Administration (2.4), Clinical Pharmacology (12.3)].

Use caution when concomitantly administering eltrombopag and drugs that are substrates of OATP1B1 (e.g., atorvastatin, bosentan, ezetimibe Threatening with the control of the sulfasalazine, topotecan). Monitor patients closely for signs and symptoms of excessive exposure to the drugs that are substrates of OATP1B1 or  $BCRP\ and\ consider\ reduction\ of\ the\ dose\ of\ these\ drugs,\ if\ appropriate.\ In\ clinical\ trials\ with\ eltrombopag,\ a\ dose\ reduction\ of\ rosuva statin\ by\ 50\%\ was$ 

7.3 Protease Inhibitors HIV Protease Inhibitors: No dose adjustment is recommended when eltrombopag is coadministered with lopinavir/ritonavir (LPV/RTV). Drug interactions with other HIV protease inhibitors have not been evaluated. Hepatitis C Virus Protease Inhibitors: No dose adjustments are recommended when eltrombopag is coadministered with boceprevir or telaprevir. Drug interactions with other hepatitis C virus (HCV) protease inhibitors have not been evaluated.

7.4 Peginterferon Alfa-2a/b Therapy  $No \ dose \ adjustments \ are \ recommended \ when \ eltrombopag \ is \ coadministered \ with \ peginter feron \ alfa-2a \ (PEGASYS") \ or \ -2b \ (PEGINTRON").$ 7.5 Interference with Clinical Laboratory Tests

Eltrombopag is highly colored and can cause patient sample discoloration, which is reported to interfere with some clinical laboratory tests, including, but not limited to bilirubin and creatinine. Bilirubin Testing: Eltrombopag can cause both positive and negative interference with bilirubin assays. If the laboratory results for bilirubin are

inconsistent with clinical observations, further evaluation of liver function should be performed to clarify the clinical status of the patient. Evaluating contemporaneous aminotransferase values (AST, ALT) may help determine the validity of normal total bilirubin levels in the presence of clinical

Creatinine Testing: Eltrombopag can cause positive interference with creatinine measurements, leading to falsely elevated creatinine levels. In the event of an unexpected serum creatinine test result, further evaluation of renal function should be performed. Blood urea should be evaluated if serum creatinine is unexpectedly high. Communicate to the lab conducting testing if the patient is taking eltrombopag. Re-testing using other methods may also help in determining the

8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy

validity of the test results.

Available data from a small number of nublished case reports and postmarketing experience with eltrombonaguse in pregnant women are insufficient to assess any drug-associated risks for major birth defects, miscarriage, or adverse maternal or fetal outcomes. In animal reproduction and developmental toxicity studies, oral administration of eltrombopag to pregnant rats during organogenesis resulted in embryolethality and reduced fetal weights at maternally toxic doses. These effects were observed at doses resulting in exposures that were six times the human clinical exposure base on area under the curve (AUC) in patients with persistent or chronic ITP at 75 mg/day, and three times the AUC in patients with chronic hepatitis C at 100 mg/day (see Data).

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk

of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and of miscarriage

in clinically recognized pregnancies is 2% to 4% and 15% to 20%, respectively.

In an early embryonic development study, female rats received oral eltrombopag at doses of 10, 20, or 60 mg/kg/day (0.8, 2, and 6 times, respectively, the human clinical exposure based on AUC in patients with ITP at 75 mg/day and 0.3, 1, and 3 times, respectively, the human clinical exposure based on AUC in patients with chronic hepatitis C at 100 mg/day). Increased pre-and post-implantation loss and reduced fetal weight were observed at the

# **MEDICATION GUIDE** Eltrombopag (el-TROM-boe-pag)

What is the most important information I should know about eltrombopag tablets? Eltrombopag tablets can cause serious side effects, including:

Liver problems:

 If you have chronic hepatitis C virus and take eltrombopag tablets with interferon and ribavirin treatment, eltrombopag tablets may increase your risk of liver problems. If your healthcare provider tells you to stop your treatment with interferon and ribavirin, you will also need to stop taking eltrombopag tablets.

Eltrombopag tablets may increase your risk of liver problems that may be severe and possibly life threatening. Your healthcare provider will do blood tests to check your liver function before you start taking eltrombopag tablets and during your treatment. Your healthcare provider may stop your treatment with eltrombopag tablets if you have changes in your liver function blood tests.

Tell your healthcare provider right away if you have any of these signs and symptoms of

yellowing of the skin or the whites
 right upper stomach area (abdomen)

of the eyes (jaundice) unusual darkening of the urine

confusion

 swelling of the stomach area unusual tiredness

See "What are the possible side effects of eltrombopag tablets?" for other side effects of eltrombopag tablets.

What are eltrombopag tablets?

Eltrombopag tablets are a prescription medicine used to treat adults and children 1 year of age and older with low blood platelet counts due to persistent or chronic immune thrombocytopenia (ITP), when other medicines to treat ITP or surgery to remove the spleen have not worked well enough.

Eltrombopag tablets are also used to treat people with:

• low blood platelet counts due to chronic hepatitis C virus (HCV) infection before and during treatment with interferon.

severe aplastic anemia (SAA) when other medicines to treat SAA have not worked

Eltrombopag tablets are used to try to raise platelet counts in order to lower your risk for Eltrombopag tablets are not used to make platelet counts normal.

Eltrombopag tablets are not for use in people with a pre-cancerous condition called

o whose severe aplastic anemia (SAA) has not improved after previous treatments

myelodysplastic syndrome (MDS), or in people with low platelet counts caused by certain other medical conditions or diseases. It is not known if eltrombopag tablets are safe and effective when used with other

It is not known if eltrombopag tablets are safe and effective in children: younger than 1 year with ITP

o younger than 2 years when used in combination with other medicines to treat SAA as the first treatment for SAA

with low blood platelet counts due to chronic hepatitis C

antiviral medicines to treat chronic hepatitis C.

Before you take eltrombopag tablets, tell your healthcare provider about all of your medical conditions, including if you:

 have liver problems • have a precancerous condition called MDS or a blood cancer

have or had a blood clot

 have a history of cataracts have had surgery to remove your spleen (splenectomy)

 have bleeding problems • are of East-/Southeast-Asian ancestry. You may need a lower dose of eltrombopag

• are pregnant or plan to become pregnant. It is not known if eltrombopag tablets will

harm an unborn baby. Tell your healthcare provider if you become pregnant or think you may be pregnant during treatment with eltrombopag tablets. o Females who are able to become pregnant, should use effective birth control (contraception) during treatment with eltrombopag tablets and for at least 7 days after stopping treatment with eltrombopag tablets. Talk to your healthcare

provider about birth control methods that may be right for you during this time.

prescription and over-the-counter medicines, vitamins, and herbal supplements.

• are breastfeeding or plan to breastfeed. You should not breastfeed during your treatment with eltrombopag tablets. Talk to your healthcare provider about the best way to feed your baby during this time. Tell your healthcare provider about all the medicines you take, including

Eltrombopag tablets may affect the way certain medicines work. Certain other medicines may affect the way eltrombopag tablets works.

Especially tell your healthcare provider if you take: certain medicines used to treat high cholesterol, called "statins"

and pharmacist when you get a new medicine.

How should I take eltrombopag tablets?

a blood thinner medicine Certain medicines may keep eltrombopag tablets from working correctly. Take eltrombopag tablets at least 2 hours before or 4 hours after taking these products: • antacid medicine used to treat stomach ulcers or heartburn

 multivitamins or products that contain iron, calcium, aluminum, magnesium, selenium, and zinc which may be found in mineral supplements Ask your healthcare provider if you are not sure if your medicine is one that is listed above. Know the medicines you take. Keep a list of them and show it to your healthcare provider

 Take eltrombopag tablets exactly as your healthcare provider tells you to take them. Your healthcare provider will prescribe the dose of eltrombopag tablets that is right If your healthcare provider prescribes eltrombopag tablets, take eltrombopag tablets

whole. Do not split, chew, or crush eltrombopag tablets and do not mix with food or liquids. **Do not** stop taking eltrombopag tablets without talking with your healthcare provider first. Do not change your dose or schedule for taking eltrombopag tablets unless your healthcare provider tells you to change them.

Take eltrombopag tablets without a meal or with a meal low in calcium (50 mg or less)

and at least 2 hours before or 4 hours after eating calcium-rich foods, such as dairy

If you take too much eltrombopag, you may have a higher risk of serious side effects.

products, calcium-fortified juices, and certain fruits and vegetables. If you miss a dose of eltrombopag tablets, wait and take your next scheduled dose. Do not take more than 1 dose of eltrombopag tablets in 1 day.

Call your healthcare provider right away. Your healthcare provider will check your platelet count during your treatment with eltrombopag tablets and change your dose of eltrombopag tablets as needed.

Tell your healthcare provider about any bruising or bleeding that happens while you take and after you stop taking eltrombopag tablets. If you have SAA, your healthcare provider may do tests to monitor your bone marrow

during treatment with eltrombopag tablets. What should I avoid while taking eltrombopag tablets?

Avoid situations and medicines that may increase your risk of bleeding. What are the possible side effects of eltrombopag tablets?

Eltrombopag tablets may cause serious side effects, including: See "What is the most important information I should know about

eltrombopag tablets?" • Increased risk of worsening of a precancerous blood condition called myelodysplastic syndrome (MDS) to acute myelogenous leukemia (AML). Eltrombopag tablets are not for use in people with a precancerous condition called myelodysplastic syndromes (MDS). See "What are eltrombopag tablets?" If you have MDS and receive eltrombopag tablets, you have an increased risk that your MDS

Artwork information			
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Costollici	Camber	Markor	USA
Dimensions (mm)	450 x 600 mm	Non Printing Colors	Die cut
Pharma Code No.	arma Code No. Front-1302 & Back-1303		
Printing Colours (01)	Black		
Others: Pharma code position and Orientation are tentative, will be changed			changed

condition may worsen and become a blood cancer called AML. If your MDS worsens to become AML, you may have an increased risk of death from AML.

High platelet counts and higher risk for blood clots. Your risk of getting a blood clot is increased if your platelet count is too high during treatment with eltrombopag tablets. Your risk of getting a blood clot may also be increased during treatment with eltrombopag tablets if you have normal or low platelet counts. You may have severe problems or die from some forms of blood clots, such as clots that travel to the lungs or that cause heart attacks or strokes. Your healthcare provider will check your blood platelet counts, and change your dose or stop eltrombopag tablets if your platelet counts get too high. Tell your healthcare provider right away if you have signs and symptoms of a blood clot in the leg, such as swelling, pain, or tenderness in your leg. People with chronic liver disease may be at risk for a type of blood clot in the stomach area (abdomen). Tell your healthcare provider right away if you have stomach-area (abdomen) pain, nausea, vomiting, or diarrhea as these may be symptoms of this type of blood clot.

New or worsened cataracts (a clouding of the lens in the eye). New or worsened cataracts can happen in people taking eltrombopag tablets. Your healthcare provider will check your eyes before and during your treatment with eltrombopag tablets. Tell your healthcare provider about any changes in your eyesight while taking eltrombopag

The most common side effects of eltrombopag tablets in adults and children

abnormal liver function tests

tiredness

- include:
- low red blood cell count (anemia)
- fever
- headache
- cough

 diarrhea Laboratory tests may show abnormal changes to the cells in your bone marrow.

Tell your healthcare provider if you have any side effect that bothers you or that does not go away. These are not all of the possible side effects of eltrombopag tablets. For more information, ask your healthcare provider or pharmacist.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

#### How should I store eltrombopag tablets?

Store eltrombopag tablets at room temperature between 68° to 77°F (20° to 25°C).

Keep eltrombopag tablets in the bottle given to you.

### Keep eltrombopag tablets and all medicines out of the reach of children.

General information about the safe and effective use of eltrombopag tablets Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use eltrombopag tablets for a condition for which it was not prescribed. Do not give eltrombopag tablets to other people, even if they have the same symptoms that you have. They may harm them.

You can ask your healthcare provider or pharmacist for information about eltrombopag tablets that is written for health professionals.

### What are the ingredients in eltrombopag tablets?

### Active ingredient: eltrombopag olamine.

## Inactive ingredients:

 Tablet Core: magnesium stearate, mannitol, microcrystalline cellulose, povidone and sodium starch glycolate.

 Coating: FD&C Blue #2/Indigo carmine aluminum lake (for 25 mg), FD & C Yellow # 6/Sunset Yellow FCF Aluminum lake (for 25 mg), hypromellose, iron oxide yellow (for 75 mg), polyethylene glycol, polysorbate 80 (for 12.5 mg and 75 mg) and titanium

Additional pediatric use information is approved for Novartis Pharmaceuticals Corporation's PROMACTA® (eltrombopag) tablets. However, due to Novartis Pharmaceuticals Corporation's marketing exclusivity rights, this drug product is not

labeled with that information. Medication Guide available at <a href="http://camberpharma.com/medication-guides">http://camberpharma.com/medication-guides</a>



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This Medication Guide has been approved by the U.S. Food and Drug Administration

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an embryo-fetal development study eltrombopag was administered orally to pregnant rats during the period of organogenesis at doses of 10, 20, or 60 mg/kg/day (0.8, 2, and 6 times, respectively, the human clinical exposure based on AUC in patients with ITP at 75 mg/day and 0.3, 1, and 3 times. tively, the human clinical exposure based on AUC in patients with chronic hepatitis C at 100 mg/day). Decreased fetal weights (6% to 7%) and a slight increase in the presence of cervical ribs were observed at the highest dose which also caused maternal toxicity. However, no evidence of major structural malformations was observed.

In an embryo-fetal development study eltrombopag was administered orally to pregnant rabbits during the period of organogenesis at doses of 30, 80, or 150 mg/kg/day (0.04, 0.3, and 0.5 times, respectively, the human clinical exposure based on AUC in patients with ITP at 75 mg/day and 0.02, 0.1, and 0.3 times, respectively, the human clinical exposure based on AUC in patients with chronic hepatitis C at 100 mg/day). No evidence of fetotoxicity, embryolethality, or teratogenicity was observed.

In a pre-and post-natal developmental toxicity study in pregnant rats (FO), oral eltrombopag was administered from gestation Day 6 through lactation Day 20. No adverse effects on maternal reproductive function or on the development of the offspring (F1) were observed at doses up to 20 mg/kg/day (2 times the human clinical exposure based on AUC in patients with ITP at 75 mg/day and similar to the human clinical exposure based on AUC in patients with chronic hepatitis C at 100 mg/day). Eltrombopag was detected in the plasma of offspring (F1). The plasma concentrations in pups increased with dose following administration of drug to the FO dams.

Risk Summary

There are no data regarding the presence of eltrombopag or its metabolites in human milk, the effects on the breastfed child, or the effects on milk production. However, eltrombopag was detected in the pups of lactating rats 10 days postpartum suggesting the potential for transfer during lactation. Due to the potential for serious adverse reactions in a breastfed child from eltrombopag, breastfeeding is not recommended during

8.3 Females and Males of Reproductive Potential Based on animal reproduction studies, eltrombopag can cause fetal harm when administered to a pregnant woman. Sexually active females of

reproductive potential should use effective contraception (methods that result in less than 1% pregnancy rates) when using eltrombopag during reatment and for at least 7 days after stopping treatment with eltrombopag.

The safety and efficacy of eltrombopag have been established in pediatric patients 1 year and older with persistent or chronic ITP. Safety and efficacy in pediatric patients below the age of 1 year with ITP have not been established. Safety and efficacy in pediatric patients with thrombo associated with chronic hepatitis C and refractory severe aplastic anemia have not been established. The safety and efficacy of eltrombopag in pediatric patients 1 year and older with persistent or chronic ITP were evaluated in two double-blind,

placebo-controlled trials [see Adverse Reactions (6.1), Clinical Studies (14.1)]. The pharmacokinetics of eltrombopag have been evaluated in 168

ediatric patients 1 year and older with ITP dosed once daily [see Clinical Pharmacology (12.3)]. See Dosage and Administration (2.1) for dosing commendations for pediatric patients 1 year and older Additional pediatric use information is approved for Novartis Pharmaceuticals Corporation's PROMACTA" (eltrombopag) tablets. However, due to Novartis Pharmaceuticals Corporation's marketing exclusivity rights, this drug product is not labeled with that information

were 75 years of age and over. Of the 1439 patients in two randomized clinical trials of eltrombopag in patients with chronic hepatitis C and rombocytopenia, 7% were 65 years of age and over, while <1% were 75 years of age and over. Of the 196 patients who received eltrom the treatment of severe aplastic anemia, 18% were 65 years of age and over, while 3% were 75 years of age and over. No overall differences in safety

Patients With Persistent or Chronic ITP and Severe Aplastic Anemia Reduce the initial dose of eltrombopag in patients with persistent or chronic ITP (adult and pediatric patients 6 years and older only) or refractory severe aplastic anemia who also have hepatic impairment (Child-Pugh class A, B, C) (see Dosage and Administration (2.1, 2.3), Warnings and Precautions (5.2), Clinical Pharmacology (12.3)].

Patients With Chronic Hepatitis C No dosage adjustment is recommended in patients with chronic hepatitis C and hepatic impairment (see Clinical Pharmacology (12.3)).

Reduce the initial dose of eltrombonag for nations of East-/Southeast-Asian ancestry with ITP (adult and pediatric nations 6 years and older only) or severe aplastic anemia (see Dosage and Administration (2.1, 2.3), Clinical Pharmacology (12.3)). No reduction in the initial dose of eltrombopag is recommended in patients of East-/Southeast-Asian ancestry with chronic hepatitis C (see Clinical Pharmacology (12.3)). Additional pediatric use information is approved for Novartis Pharmaceuticals Corporation's PROMACTA" (eltrombopag) tablets. However, due to Novartis Pharmaceuticals Corporation's marketing exclusivity rights, this drug product is not labeled with that information 10 OVERDOSAGE

In one report, a subject who ingested 5000 mg of eltrombopag had a platelet count increase to a maximum of 929 x 10°/L at 13 days following the ngestion. The patient also experienced rash, bradycardia, ALT/AST elevations, and fatigue. The patient was treated with gastric lavage, oral actulose, intravenous fluids, omeprazole, atropine, furosemide, calcium, dexamethasone, and plasmapheresis; however, the abnormal platelet count and liver test abnormalities persisted for 3 weeks. After 2 months' follow-up, all events had resolved without sequelae In case of an overdose, consider oral administration of a metal cation-containing preparation, such as calcium, aluminum, or magnesium preparations to

may increase excessively and result in thrombotic/thromboembolic co

the late el trombopag and thus limit absorption. Closely monitor platelet counts. Reinitiate treatment with eltermbopag in accordance with dosing and administration recommendations [see Dosage and Administration (2.1, 2.2]]. Consider contacting the Poison Help line (1-800-222-1222) or a medical oxicologist for additional overdose management recommendations Eltrombopaq tablets contain eltrombopaq olamine, a small molecule thrombopoietin (TPO) receptor agonist for oral administratio Eltrombopag olamine is a biphenyl hydrazone. The chemical name for eltrombopag olamine is  $3^{-1}(2Z) = 2^{-1}(3,4^{-4}$  (imethylphenyl)-3-methyl-5-oxo-1,5-dihydro-4H-pyrazol-4ylidene]hydrazino}-2^{1}-hydroxy-3-biphenylcarboxylic acid, ethanolamine. It has the molecular formula  $C_{2x}H_{2x}N_{x}O_{x}C_{x}H_{1x}N_{x}O_{y}$ . The

molecular weight is 564.27 g/mol for eltrombopag olamine and 442.5 g/mol for eltrombopag free acid. Eltrombopag olamine has the following

Eltrombonag olamine is very slightly soluble in methanol and dimethyl formamid mbopag olamine in the amount equivalent to 12.5 mg, 25 mg, 50 mg, or 75 mg of eltrombopag free acid. The inactive ingredients of eltrombopag tablets are:

Tablet Core: mannesium stearate mannitol microcrystalline cellulose povidone and sodium starch plycolate  $\textbf{Coating:} FD \& C \ Blue \#2/Indigo \ carmine \ aluminum \ lake \ (for 25 \ mg), FD \& C \ Yellow \#6/Sunset \ Yellow \ FCF \ Aluminum \ lake \ (for 25 \ mg), \ hypromellose, iron \ FCF \ Aluminum \ lake \ (for 25 \ mg), \ hypromellose, iron \ FCF \ Aluminum \ lake \ (for 25 \ mg), \ hypromellose, iron \ FCF \ Aluminum \ lake \ (for 25 \ mg), \ hypromellose, iron \ Hollow \ FCF \ Aluminum \ lake \ (for 25 \ mg), \ hypromellose, iron \ Hollow \ Hollo$ oxide vellow (for 75 mg), polyethylene glycol, polysorbate 80 (for 12.5 mg and 75 mg) and titanium dioxide

12 CLINICAL PHARMACOLOGY

Eltrombopag is a TPO-receptor agonist that interacts with the transmembrane domain of the human TPO-receptor (also known as cMpl) and initiates signaling cascades that induce proliferation and differentiation of megakaryocytes leading to increased platelet g In clinical trials, treatment with eltrombopag resulted in dose-dependent increases in platelet counts following repeated (daily) dosing. The increase in

platelet counts reached a maximum approximately two weeks after the initiation of dosing, and returned to baseline within appr after the last dose of eltrombopag.  $\label{lem:cardiac Electrophysiology} At doses up to 150 mg (the maximum recommended dose) daily for 5 days, eltrombopag did not prolong the QT/QTc interval to any relevant extent.$ 12.3 Pharmacokinetics Eltrombopag demonstrated a dose-proportional increase in exposure between doses of 50 to 150 mg/day in healthy adult subjects. Eltrombopag AUC

was approximately 1.7-fold higher in patients with persistent or chronic ITP and approximately 2.8-fold higher in patients with HCV compared to

healthy subjects. Steady-state was achieved after approximately 1 week of once daily treatment, with geometric mean accumulation ratio of 1.56 (90% confidence interval 1.20, 1.63) at 75 mg/day. Eltrombopag for oral suspension delivered 22% higher plasma AUC<sub>oust</sub>than the tablet formulation. Eltrombopag is absorbed with a peak concentration occurring 2 to 6 hours after oral administration. Oral absorption of drug-related material following administration of a single 75 mg solution dose was estimated to be at least 52%. Effect of Food

A standard high-fat breakfast (876 calories, 52 g fat, 71 g carbohydrate, 34 g protein, and 427 mg calcium) significantly decreased plasma eltrombopag  $AUC_{out}$  by approximately 59% and  $C_{out}$  by 65% and delayed  $T_{out}$  by 1 hour. The decrease in exposure is primarily due to the high calcium A meal low in calcium (≤ 50 mg calcium) did not significantly impact plasma eltrombopag exposure, regardless of calorie and fat content

The concentration of eltrombopag in blood cells is approximately 50% to 79% of plasma concentrations based on a radiolabel study. In vitro studies suggest that eltrombopag is highly bound to human plasma proteins (greater than 99%). Eltrombopag is a substrate of BCRP, but is not a substrate for

The plasma elimination half-life of eltrombopag is approximately 21 to 32 hours in healthy subjects and 26 to 35 hours in patients with ITP. Metabolism: Absorbed eltrombopag is extensively metabolized, predominantly through pathways, including cleavage, oxidation, and conjugation with glucuronic acid, glutathione, or cysteine. In vitro studies suggest that CYP1A2 and CYP2C8 are responsible for the oxidative metabolism of

eltrombopag. UGT1A1 and UGT1A3 are responsible for the glucuronidation of eltromb Excretion: The predominant route of eltrombopag excretion is via feces (59%), and 31% of the dose is found in the urine. Unchanged eltrombopag in Specific Populations

Eltrombopag concentrations in East-/Southeast-Asian ancestry patients with ITP or chronic hepatitis C were 50% to 55% higher compared with non-Eltrombopag exposure in healthy African-American subjects was approximately 40% higher than that observed in Caucasian subjects in one clinical pharmacology trial and similar in three other clinical pharmacology trials. The effect of African-American ethnicity on exposure and related safety and efficacy of eltrombopag has not been established.

Following a single dose of eltrombopag (50 mg), plasma eltrombopag  $AUC_{oss}$  was 41% higher in patients with mild hepatic impairment (Child-Pugh class A) compared with subjects with normal hepatic function. Plasma eltrombopag  $AUC_{oss}$  was approximately 2-fold higher in patients with moderate (Child-Pugh class B) and severe hepatic impairment (Child-Pugh class C) compared with subjects with normal hepatic function. The half-life of eltrombopag was prolonged 2-fold in these patients. This clinical trial did not evaluate protein-binding effe Chronic Liver Disease wing repeat doses of eltrombopag in patients with thrombocytopenia and with chronic liver disease, mild hepatic im

110% higher plasma eltrombopag AUC, and moderate hepatic impairment resulted in approximately 141% to 240% higher plasma eltrombopag AUC  $_{m,n}$  values compared with patients with normal hepatic function. The half-life of eltrombopag was prolonged 3-fold in patients with mild hepatic impairment and 4-fold in patients with moderate hepatic impairment. This clinical trial did not evaluate protein-binding effects.

Patients with chronic hepatitis C treated with eltrombopag had higher plasma AUC<sub>n-1</sub> values as compared with healthy subjects, and AUC<sub>n-1</sub> increased with increasing Child-Pugh score. Patients with chronic hepatitis C and mild hepatic impairment had approximately 100% to 144% higher plasma AUC n.,) compared with healthy subjects. This clinical trial did not evaluate protein-binding effects. Following a signle dose of eltrombonag (50 mg), the average total plasma eltrombonag ALIC....was 32% to 36% lower in subjects with mild (estimated

creatinine clearance (CLCr) by Cockcroft-Gault equation: 50 to 80 mL/min), to moderate (CLCr of 30 to 49 mL/min) renal impairment and 60% lower in subjects with severe (CLCr less than 30 mL/min) renal impairment compared with healthy subjects. The effect of renal impairment on unbound (active Pediatric Patients The pharmacokinetics of eltrombopag have been evaluated in 168 pediatric patients 1 year and older with ITP dosed once daily in two trials. Plasma eltrombopag apparent clearance following oral administration (CL/F) increased with increasing body weight. East-/Southeast-Asian pediatric patients

Plasma eltrombopag AUC (10-1) and C (10-1) in pediatric patients aged 12 to 17 years was similar to that observed in adults. The pharmacokinetic parameters

with ITP had approximately 43% higher plasma eltrombopag AUC, values as compared with non-Asian patients.

	C <sub>max</sub>	AUC <sub>(0-t)</sub>
Age	(mcg/mL)	(mcg·hr/mL)
Adults (n = 108)	7.03 (6.44, 7.68)	101 (91.4, 113)
12 to 17 years (n = 62)	6.80 (6.17, 7.50)	103 (91.1, 116)
6 to 11 years (n = 68)	10.3 (9.42, 11.2)	153 (137, 170)
1 to 5 years (n = 38)	11.6 (10.4, 12.9)	162 (139, 187)

Based on population PK post-hoc estimates.

<u>Drug Interaction Studies</u>

Effect of Drugs on Eltrombopag Effect of Polyvalent Cation-containing Antacids on Eltrombopage

The coadministration of a single dose of eltrombopag (75 mg) with a polyvalent cation-containing antacid (1,524 mg aluminum hydroxide, 1,425 mg magnesium carbonate, and sodium alginate) decreased plasma eltrombopag AUCoom and Co... by approximately 70%. The contribution of sodium

Effect of HIV Protease Inhibitors on Eltrombopage on of repeat-dose lopinavir 400 mg/ritonavir 100 mg (twice daily) with a single dose of eltrombopag (100 mg) decreased plasma

The coadministration of repeat-dose telaprevir (750 mg every 8 hours) or boceprevir (800 mg every 8 hours) with a single dose of eltrombopag (200 mg) Effect of Cyclosporine on Eltrombopag:

The coadministration of a single dose of eltrombopag (50 mg) with a single dose of an OATP and BCRP inhibitor cyclosporine (200 mg or 600 mg) decreased plasma eltrombopag AUC and by 18% to 24% and C by 25% to 39%.  $\label{lem:energy} \textit{Effect of Pegylated Interferon alfa-2a+Ribavirin and Pegylated Interferon alfa-2b+Ribavirin on Eltrombopag:}$ 

The presence of pegylated interferon alfa + ribavirin therapy did not significantly affect the clearance of eltrombopag. Effect of Eltrombopag on Other Drugs Effect of Eltrombopag on Cytochrome P450 Enzymes Substrates:

The coadministration of multiple doses of eltrombopag (75 mg once daily for 7 days) did not result in the inhibition or induction of the metabolism of a combination of probe substrates for CYP1A2 (caffeine), CYP2C19 (omeprazole), CYP2C9 (flurbiprofen), or CYP3A4 (midazolam) in humans. Effect of Eltrombopag on Rosuvastatin.

 $The coadministration of multiple doses of eltrombopag (75\,mg once daily for 5\,days) with a single dose of rosuva statin (0ATP1B1 and BCRP substrate; and the coadministration of multiple doses of eltrombopag (75\,mg once daily for 5\,days) with a single dose of rosuva statin (0ATP1B1 and BCRP substrate; and the coadministration of multiple doses of eltrombopag (75\,mg once daily for 5\,days) with a single dose of rosuva statin (0ATP1B1 and BCRP substrate; and the coadministration of multiple doses of eltrombopag (75\,mg once daily for 5\,days) with a single dose of rosuva statin (0ATP1B1 and BCRP substrate; and the coadministration of multiple doses of eltrombopag (75\,mg once daily for 5\,days) with a single dose of rosuva statin (0ATP1B1 and BCRP substrate; and the coadministration of the coa$ 10 mg) increased plasma rosuvastatin AUC  $_{\text{DANF}}$  by 55% and  $C_{\text{max}}$  by 103%. Effect of Eltrombopag on HCV Protease Inhibitors: on of repeat-dose telaprevir (750 mg every 8 hours) or boceprevir (800 mg every 8 hours) with a single dose of eltrombopag (200 mg)

to healthy adult subjects in a clinical trial did not alter plasma telaprevir or boceprevir  $AUC_{\tiny DMF}$  or  $C_{\tiny max}$  to a significant extent. Eltrombonag Effect on Metabolic Enzymes

Eltrombopag has demonstrated the potential to inhibit CYP2C8, CYP2C9, UGT1A1, UGT1A3, UGT1A4, UGT1A6, UGT1A9, UGT2B7, and UGT2B15. Eltrombopag Effect on Transporters

 $Eltrombopag\ has\ demonstrated\ the\ potential\ to\ inhibit\ OATP1B1\ and\ BCRP.$ Additional pediatric use information is approved for Novartis Pharmaceuticals Corporation's PROMACTA" (eltrombopag) tablets. However, due to

Novartis Pharmaceuticals Corporation's marketing exclusivity rights, this drug product is not labeled with that information 13 NONCLINICAL TOXICOLOGY Eltrombopag does not stimulate platelet production in rats, mice, or dogs because of unique TPO receptor specificity. Data from these animals do not

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 the human sure based on AUC in patients with ITP at 75 mg/day and 2 times the human clinical exposure based on AUC in patients with chronic hepatitis C at 100 mg/day).

mbopag 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 the human clinical exposure based on C in patients with LTP at 75 mg/day and 7 times the human clinical exposure based on C in in mutation frequency).

Eltrombopag did not affect female fertility in rats at doses up to 20 mg/kg/day (2 times the human clinical exposure based on AUC in patients with ITP at 75 mg/day and similar to the human clinical exposure based on AUC in patients with chronic hepatitis C at 100 mg/day). 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 based on AUC in patients with ITP at 75 mg/day and 2 times the human clinical exposure based on AUC in patients with chronic hepatitis C at 100 mg/day).

13.2 Animal Pharmacology and/or Toxicology Treatment-related cataracts were detected in rodents in a dose-and time-dependent manner. At greater than or equal to 6 times the human clinical exposure based on AUC in patients with ITP at 75 mg/day and 3 times the human clinical exposure based on AUC in patients with chronic hepatitis C at 100 mg/day, cataracts were observed in mice after 6 weeks and in rats after 28 weeks of dosing. At greater than or equal to 4 times the human clinical exposure based on AUC in patients with ITP at 75 mg/day and 2 times the human clinical exposure based on AUC in patients with chronic hepatitis C at 100 mg/day, cataracts were observed in mice after 13 weeks and in rats after 39 weeks of dosing [see Warnings and Precautions (5.5]]. Renal tubular toxicity was observed in studies up to 14 days in 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. The exposure at the lowest dose was 1.2 times the human clinical exposure based on AUC in patients with ITP at 75 mg/day and 0.6 times the human clinical exposure

based on AUC in patients with chronic hepatitis C at 100 mg/day. No similar effects were observed in mice after 13 weeks at exposures greater than

Adults: The efficacy and safety of eltrombopag in adult patients with persistent or chronic ITP were evaluated in three randomized, double-blind,

 $those \ associated \ with \ renal \ changes \ in \ the \ 2-year \ study, \ suggesting \ that \ this \ effect \ is \ both \ dose-and \ time-dependent$ CLINICAL STUDIES 14.1 Persistent or Chronic ITP

In Study TRA100773B and Study TRA100773A (referred to as Study 773B and Study 773B, respectively [NCT00102739]), patients who had  $completed \ at \ least \ one \ prior \ ITP \ the rapy \ and \ who \ had \ a \ platelet \ count \ less \ than \ 30 \ x \ 10^{\circ}/L \ were \ randomized \ to \ receive \ either \ eltrombopag \ or \ placebo$ daily for up to 6 weeks, followed by 6 weeks off therapy. During the trials, eltrombopag or placebo was discontinued if the platelet count exceeded 200 x 10<sup>9</sup>/L.

The median age of the patients was 50 years and 60% were female. Approximately 70% of the patients had received at least 2 prior ITP therapies (predominantly corticosteroids, immunoglobulins, rituximab, cytotoxic therapies, danazol, and azathioprine) and 40% of the patients had undergone tomy. The median baseline platelet counts (approximately  $18 \, x \, 10^{\circ} / L$ ) were similar among all treatment groups. Study 773B randomized 114 patients (2:1) to eltrombopag 50 mg or placebo. Of 60 patients with documented time since diagnosis, approximately 17% met the definition of persistent ITP with time since diagnosis of 3 to 12 months. Study 773A randomized 117 patients (1:1:1:1) among placebo or

1 of 3 dose regimens of eltrombopag, 30 mg, 50 mg, or 75 mg each administered daily. Of 51 patients with documented time since diagnosis, The efficacy of eltrombopag in this trial was evaluated by response rate, defined as a shift from a baseline platelet count of less than 30 x 10°/L to greater than or equal to 50 x 10°/L at any time during the treatment period (Table 16)

Table 16. Studies 773B and 773A: Platelet Count Response (≥50 x 10°/L) Rates in Adults With Persistent or Chronic Immune Thrombocytopen

he platelet count response to eltrombopag was similar among patients who had or had not undergone splenectomy. In general, increases in platelet counts were detected 1 week following initiation of eltrombong and the maximum response was observed after 2 weeks of therapy. In the placebo and 50 mg-dose groups of eltrombopag, the trial drug was discontinued due to an increase in platelet counts to greater than 200 x 10 L in 3% and 27%

Of 7 patients who underwent hemostatic challenges, additional ITP medications were required in 3 of 3 placebo group patients and 0 of 4 patients treated with eltrombopag. Surgical procedures accounted for most of the hemostatic challenges. Hemorrhage re placebo group patient and no patients treated with eltrombopag. In the RAISE study (NCT00370331), 197 patients were randomized (2:1) to receive either eltrombopag 50 mg once daily (n = 135) or placebo (n = 62) for 6 months, during which time the dose of eltrombopag could be adjusted based on individual platelet counts. Of 145 patients with documented time since diagnosis. 19% met the definition of persistent ITP. Patients were allowed to taper or discontinue concomitant ITP medications after being treated with eltrombopag for 6 weeks. Patients were permitted to receive rescue treatments at any time during the trial as clinically indicated. The median ages of the patients treated with eltrombopag and placebo were 47 years and 52.5 years, respectively. Approximately half of the patients

The incominges of the patients reacted with entinulpog and placed well 47 years and 22.5 years, respectively. Apply administry from the patients treated with eltrombopag and placebo (47% and 50%, respectively) were receiving concominant ITP medication (predominantly corticosteroids) at randomization and had baseline platelet counts less than or equal to 15 x 10°/L (50% and 48%, respectively). A similar percentage of patients treated

rith eltrombopag and placebo (37% and 34%, respectively) had a prior splenectomy The efficacy of eltrombopag in this trial was evaluated by the odds of achieving a platelet count greater than or equal to 50 x 10°/L and less than or equal to 400 x 10°/L for patients receiving eltrombopag relative to placebo and was based on patient response profiles throughout the 6-month treatment period. In 134 patients who completed 26 weeks of treatment, a sustained platelet response (platelet count greater than or equal to  $50 \times 10^9 / L$  and less than or equal to  $400 \times 10^9 / L$  for 6 out of the last 8 weeks of the 26-week treatment period in the absence of rescue medication at any time) was achieved by 60% of patients treated with eltrombopag, compared with 10% of patients treated with placebo (splenectomized patients: eltrombopag 51%, placebo 8%; non-splenectomized patients: eltrombopag 65%, placebo 11%). The proportion of responders in the group of patients treated with eltrombonag was between 37% and 56% compared with 7% and 19% in the placebo treatment group for all on-therapy visits. Patients treated with eltrombopag were significantly more likely to achieve a platelet count between 50 x  $10^{3}$ /L and 400 x  $10^{3}$ /L during the entire 6-month treatment period compared with those patients treated with placebo.

Outcomes of treatment are presented in Table 17 for all patients enrolled in the trial. Table 17. RAISE: Outcomes of Treatment in Adults With Persistent or Chronic Immune Thrombocytopeni

773A.

	Eltrombopag	Placebo
Outcome	n = 135	n = 62
Mean number of weeks with platelet counts ≥ 50 x 10°/L	11.3	2.4
Requiring rescue therapy, n (%)	24 (18)	25 (40)
mong 94 patients receiving other ITP therapy at baseline, 37 (59 lacebo group discontinued concomitant therapy at some time during		Jopay and 10 (32/0) of 31 patients in the

34 patients completed 5 years, and 18 patients completed 6 years of therapy. The median baseline platelet count was 19 x 10<sup>9</sup>/L prio administration of eltrombopag. Median platelet counts at 1, 2, 3, 4, 5, 6, and 7 years on study were 85 x 10<sup>9</sup>/L, 85 x 10<sup>9</sup>/L, 105 x 10<sup>9</sup>/L, 64 x 10<sup>9</sup>/L,  $75 \times 10^{9}$ /L,  $119 \times 10^{9}$ /L, and  $76 \times 10^{9}$ /L, respectively Pediatric Patients: The efficacy and safety of eltrombopag in pediatric patients 1 year and older with persistent or chronic ITP were evaluated in two double-blind, placebo-controlled trials. The trials differed in time since ITP diagnosis: at least 6 months versus at least 12 months. During the trials, doses could be increased every 2 weeks to a maximum of 75 mg once daily. The dose of eltrombopag was reduced if the platelet count exceede  $200 \times 10^{9}$ /L and interrupted and reduced if it exceeded  $400 \times 10^{9}$ /L.

In the PETIT2 study (NCTO1520909), patients refractory or relapsed to at least one prior ITP therapy with a platelet count less than 30 x 10°/L (n = 92) were stratified by age and randomized (2:1) to eltrombopag (n = 63) or placebo (n = 29). The starting dose for patients aged 6 to 17 years was 50 mg once daily for those at least 27 kg and 37.5 mg once daily for those less than 27 kg, administered as oral tablets. A reduced dose of 25 mg once daily was used for East-/Southeast-Asian patients aged 6 to 17 years regardless of weight. The starting dose for patients aged 1 to 5 years was 1.2 mg/kg once daily (0.8 mg/kg once daily for East-/Southeast-Asian patients) administered as oral suspe The 13-week, randomized, double-blind period was followed by a 24-week, open-label period where patients from both arms were eligible to receive

The median age of the patients was 9 years and 48% were female. Approximately 62% of patients had a baseline platelet count less than or equal to 15 x 10°/L, a characteristic that was similar between treatment arms. The percentage of patients with at least 2 prior ITP therapies (predon corticosteroids and immunoglobulins) was 73% in the group treated with eltrombopag and 90% in the group treated with placebo. Four patients in the group treated with eltrombopag had undergone splen

The efficacy of eltrombopag in this trial was evaluated by the proportion of subjects on eltrombopag achieving platelet counts ≥ 50 x 10<sup>9</sup>/L (in the absence of rescue therapy) for at least 6 out of 8 weeks between Weeks 5 to 12 of the randomized, double-blind period (Table

Table 18. PETIT2: Platelet Count Response (≥ 50 x 10°/L Without Rescue) for 6 out of 8 Weeks (between Weeks 5 to 12) Overall and by Age Cohort in Pediatric Patients 1 Year and Older With Chronic Immune Thrombocyto Age cohort Eltrombopag 26/63 (41%) 1/29 (3%) 1/10 (10%)

1 to 5 years 5/14 (36%) 0/6 (0%) p-value = < 0.001 for eltrombopag versus placebo More pediatric patients treated with eltrombopag (75%) compared with placebo (21%) had at least one platelet count greater than or equal to 50 x

10 Luring the first 12 weeks of randomized treatment in absence of rescue therapy. Fewer pediatric patients treated with eltrombopag required rescue treatment during the randomized, double-blind period compared with placebo-treated patients (19% [12/63] versus 24% [7/29]). In the patients who achieved a platelet response ( $\geq 50 \times 10^9$ /L without rescue) for 6 out of 8 weeks (between weeks 5 to 12), 62% (16/26) had an initial response Patients were permitted to reduce or discontinue baseline ITP therapy only during the open-label phase of the trial. Among 15 patients receiving other ITP therapy at baseline, 53% (8/15) reduced (n = 1) or discontinued (n = 7) conce

In the PETIT study (NCT00908037), patients refractory or relapsed to at least one prior ITP therapy with a platelet count less than  $30 \times 10^6$  |L (n = 67) were stratified by age and randomized (2:1) to eltrombopag (n = 45) or placebo (n = 22). Approximately 15% of patients met the definition of persistent ITP. The starting dose for patients aged 12 to 17 years was 37.5 mg once daily gardless of weight or race. The starting dose for patients aged 6 to 11 years was 50 mg once daily for those less than 27 kg, administered as oral tablets. Reduced doses of 25 mg (for those greater than or equal to 27 kg) and 12.5 mg (for those less than 27 kg), each once daily, were used for East-/Southeast-Asian patients in this age range. The starting dose for patients aged 1 to 5 years was 1.5 mg/kg once daily (0.8 mg/kg once daily for East-/Southeast-Asian patients) administered as oral suspensio

The 7-week, randomized, double-blind period was followed by an open-label period of up to 24 weeks where patients from both arms were eligible to The median age of the patients was 10 years and 60% were female. Approximately 51% of patients had a baseline platelet count less than or equal to  $15 \times 10^{\circ}$ lt. The percentage of patients with at least 2 prior ITP therapies (predominantly corticosteroids and immunoglobulins) was 84% in the group treated with eltrombopag and 86% in the group treated with eltrombopag and 86% in the group treated with eltrombopag had undergone splenectomy. The efficacy of eltrombopag in this trial was evaluated by the proportion of patients achieving platelet counts greater than or equal to  $50 \times 10^9$  |L (in absence of rescue therapy) at least once between Weeks 1 and 6 of the randomized, double-blind period (Table 19). Platelet response to eltrombopag

Table 19. PETIT: Platelet Count Response (≥ 50 x 10³/L Without Rescue) Rates in Pediatric Patients 1 Year and Older With Persistent of

Age cohort	Eltrombopag	Placebo
Overall	28/45 (62%) <sup>a</sup>	7/22 (32%)
12 to 17 years	10/16 (62%)	0/8 (0%)
6 to 11 years	12/19 (63%)	3/9 (33%)
1 to 5 years	6/10 (60%)	4/5 (80%)

treated patients (13% [6/45] versus 50% [11/22]). Patients were permitted to reduce or discontinue baseline ITP therapy only during the open-label phase of the trial. Among 13 patients receiving other ITP therapy at baseline, 46% (6/13) reduced (n = 3) or discontinued (n = 3) concomitant therapy, mainly corticosteroids, without needing rescue

The efficacy and safety of eltrombopag for the treatment of thrombocytopenia in adult patients with chronic hepatitis C were evaluated in two randomized, double-blind, placebo-controlled trials. The ENABLE1 study (NCT00516321) utilized peginterfron alfa-2a (PEGASYS') plus ribavirin for antiviral treatment and the ENABLE2 study (NCT00529568) utilized peginterferon alfa-2b (PEGINTRON') plus ribavirin. In both trials, patients with a platelet count of less than 75 x 10°/L were enrolled and stratified by platelet count, screening HCV RNA, and HCV genotype. Patients were excluded if they had evidence of decompensated liver disease with Child-Pugh score greater than 6 (class B and C), history of ascites, or hepatic encephalo The median age of the patients in both trials was 52 years, 63% were male, and 74% were Caucasian. Sixty-nine percent of patients had HCV genotypes 1, 4, 6, with the remainder genotypes 2 and 3. Approximately 30% of patients had been previously treated with interferon and ribavirin. The majority of patients (90%) had bridging fibrosis and cirrhosis, as indicated by noninvasive testing. A similar proportion (95%) of patients in both treatment groups had Child-Pugh class A (score 5 to 6) at baseline. A similar proportion of patients (2%) in both treatment groups had baseline international normalized ratio (INR) greater than 1.7. Median baseline platelet counts (approximately 60 x 10 ll.) were similar in both treatment group. The trials consisted of 2 phases – a pre-antiviral treatment phase and an antiviral treatment phase. In the pre-antiviral treatment phase, patient received open-label eltrombopag to increase the platelet count to a threshold of greater than or equal to 90 x  $10^\circ$ /L for ENABLE1 and greater than or received oper-read of terminological control and interesses the practice count to a mission of update train or equal to 30 x 10 x 10 x 10 mission or update train or equal to 30 x 10 x 10 x 10 mission or update train or equal to 30 x 10 x 10 x 10 mission or update train or equal to 30 x 10 x 10 x 10 mission or update train or update eltrombopag was 9 weeks. If threshold platelet counts were achieved, patients were randomized (2:1) to the same dose of eltrombonan at the end of the pre-treatment phase or to placebo. Eltrombopag was administered in combination with pegylated interferon and ribavirin per their resp prescribing information for up to 48 weeks.

The efficacy of eltrombopag for both trials was evaluated by sustained virologic response (SVR) defined as the percentage of patients with undetectable HCV-RNA at 24 weeks after completion of antiviral treatment. The median time to achieve the target platelet count greater than or equal to 90 x  $10^{\circ}$ /L was approximately 2 weeks. Ninety-five percent of patients were able to initiate antiviral therapy. In both trials, a significantly greater proportion of patients treated with eltrombopag achieved SVR (see Table 20). The imp of patients who achieved SVR was consistent across subgroups based on baseline platelet count (less than  $50 \times 10^{9}$ /L versus greater than or equal to 50 x 10°/L). In patients with high baseline viral loads (greater than or equal to 800,000), the SVR rate was 18% (82/452) for eltrombopag versus 8%

Table 20. ENABLE1 and ENABLE2: Sustained Virologic Response (SVR) in Adults With Chronic Hepatitis C

_	ENABLE1 <sup>a</sup>		ENABLE1° ENABLE2°	
Pre-antiviral treatment phase	n = 715		n = 8	305
% Patients who achieved target platelet counts and initiated antiviral therapy <sup>c</sup>	95%		94	%
Antiviral treatment phase	Eltrombopag n = 450 %	Placebo n = 232	Eltrombopag n = 506 %	Placebo n = 253 %
Overall SVR <sup>d</sup>	23	14	19	13
HCV genotype 2, 3	35	24	34	25
HCV genotype 1, 4, 6	18	10	13	7

\*Eltrombopag given in combination with peginterferon alfa-2a (180 mcg once weekly for 48 weeks for genotypes 1/4/6; 24 weeks for genotype 2 or 3) plus ribavirin (800 to 1,200 mg daily in 2 divided doses orally). Eltrombopag given in combination with peginterferon alfa-2b (1.5 mcg/kg once weekly for 48 weeks for genotypes 1/4/6; 24 weeks for genotype 2 or

3) plus ribavirin (800 to 1,400 mg daily in 2 divided doses orally Target platelet count was  $\geq 90 \times 10^{9}$ /L for ENABLE1 and  $\geq 100 \times 10^{9}$ /L for ENABLE2.

ho-value < 0.05 for eltrombopag versus placebo. The majority of patients treated with eltrombopag (76%) maintained a platelet count greater than or equal to 50 x 10°/L compared with 19% for placebo. A greater proportion of patients on eltrombopag did not require any antiviral dose reduction as compared with placebo (45% versus 27%). 14.3 Severe Aplastic Anemia

Eltrombopag was studied in a single-arm, single-center, open-label trial (Study ETB115AUS28T, referred to as Study US28T [NCT00922883]) in 43 patients with severe aplastic anemia who had an insufficient response to at least one prior immunosuppressive therapy and who had a platelet count less than or equal to 30 x 10°/L. Eltrombopag was administered at an initial dose of 50 mg once daily for 2 weeks and increased over 2-week periods up ress timal or equal to 20 x 10 fc. Entoniopagy was animals area at an initial observation on inguine dualy or 2 weeks animal measurement of the following control of the following criteria: 1) platelet count increases to 20 x 10 % Labove was defined as meeting 1 or more of the following criteria: 1) platelet count increases to 20 x 10 % Labove baseline, or stable platelet counts with transfusion independence for a minimum of 8 weeks; 2) hemoglobin increase by greater than 1.5 g/dL, or a eduction in greater than or equal to 4 units of red blood cell (RBC) transfusions for 8 consecutive weeks; 3) ANC increase of 100% or an ANC increase greater than 0.5 x 10°/L. Eltrombopag was discontinued after 16 weeks if no hematologic response was observed. Patients who responded continued

erapy in an extension phase of the trial. 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 x 10°/L, hemoglobin was 8.4 gldL, ANC was 0.58 x 10°/L, and absolute reticulocyte count was 24.3 x 10°/L. Eighty-six percent of patients were red blood cell (RBC) transfusion dependent and 91% were platelet transfusion dependent. The majority of patients (84%) received at least 2 prior nunosuppressive therapies. Three patients had cytogenetic abnormalities at baseline.

Table 23 presents the efficacy results.

23. Study US28T: Hematologic Response in Patients With Refractory Severe Aplastic Anemia			
Quicome	Eltrombopag n = 43		
5.5555			
ponse rate³, n (%)	17 (40)		
95% CI (%)	(25, 56)		
dian of duration of response in months (95% CI)	NR <sup>b</sup> (3 O NR <sup>b</sup> )		

Includes single-and multi-lineage

 $In the 17 \, responders, the \, platelet \, transfusion \cdot free \, period \, ranged \, from \, 8 \, to \, 1096 \, days \, with \, a \, median \, of \, 200 \, days, \, and \, the \, RBC \, transfusion \cdot free \, period \, ranged \, from \, 8 \, to \, 1096 \, days \, with \, a \, median \, of \, 200 \, days, \, and \, the \, RBC \, transfusion \cdot free \, period \, ranged \, from \, 8 \, to \, 1096 \, days \, with \, a \, median \, of \, 200 \, days, \, and \, the \, RBC \, transfusion \cdot free \, period \, ranged \, from \, 8 \, to \, 1096 \, days \, with \, a \, median \, of \, 200 \, days, \, and \, the \, RBC \, transfusion \cdot free \, period \, ranged \, from \, 8 \, to \, 1096 \, days \, with \, a \, median \, of \, 200 \, days, \, and \, the \, RBC \, transfusion \cdot free \, period \, ranged \, from \, 8 \, to \, 1096 \, days \, with \, a \, median \, of \, 200 \, days, \, and \, the \, RBC \, transfusion \cdot free \, period \, ranged \, from \, 8 \, to \, 1096 \, days \, with \, a \, median \, of \, 200 \, days, \, and \, the \, RBC \, transfusion \cdot free \, period \, ranged \, from \, 8 \, to \, 1096 \, days \, with \, a \, median \, of \, 200 \, days, \, and \, the \, RBC \, transfusion \cdot free \, period \, ranged \, from \, 8 \, to \, 1096 \, days \, with \, a \, median \, of \, 200 \, days \, and \, based \, and \,$ anged from 15 to 1082 days with a median of 208 days. In the extension phase, 8 patients achieved a multi-lineage response; 4 of these patients subsequently tapered off treatment with eltrombopag and maintained the response (median follow-up: 8.1 months,

Additional pediatric use information is approved for Novartis Pharmaceuticals Corporation's PROMACTA® (eltrombopag) tablets. However, due to Novartis Pharmaceuticals Corporation's marketing exclusivity rights, this drug product is not labeled with that information

16.1 Tablet The 12.5 mg tablets are off-white, round, bevel edged, biconvex film-coated tablets debossed with 'H' on one side and 'E10' on the other side NDC 31722-841-30 Bottle of 30 tablets

The 25 mg tablets are beige colored, round, bevel edged, biconvex film-coated tablets debossed with 'H' on one side and 'E11' on the other side and are available in Bottle of 30 tablets NDC 31722-842-30  $The 50 \, mg \ tablets \ are \ off-white, round, bevel \ edged, biconvex \ film-coated \ tablets \ debossed \ with \ 'H' \ on \ one \ side \ and \ 'E12' \ on \ the \ other \ side \ and \ 'E12' \ on \ the \ other \ side \ and \ other \ ot$ 

are available in Bottle of 30 tablets NDC 31722-843-30 Bottle of 14 tablets NDC 31722-843-14 The 75 mg tablets are off-white to light yellow colored, round, bevel edged, biconvex film-coated tablets debossed with 'H' on one side and 'E13'

on the other side and are available in NDC 31722-844-30 Bottle of 30 tablets Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Dispense in original bottle. 17 PATIENT COUNSELING INFORMATION

Advise the patient or caregiver to read the FDA-approved patient labeling (Medication Guide). Prior to treatment, patients should fully understand and be informed of the following risks and considerations for eltrombopag tablets

Therapy with eltrombopag tablets may be associated with hepatobiliary laboratory abnormalities (see Warnings and Precautions (5.2)]. Advise patients with chronic hepatitis C and cirrhosis that they may be at risk for hepatic decompensation when receiving eltrombopag tablets with alfa interferon therapy (see Warnings and Precautions (5.1)). Advise patients that they should report any of the following signs and symptoms of liver problems to their healthcare provider right away

yellowing of the skin or the whites of the eyes (jaundice

unusual tiredness right upper stomach area pain

swelling of the stomach area (abdomen

Risk of Rigeding Unon Eltromhonag tablets Discontinuation Advise patients that thrombocytopenia and risk of bleeding may reoccur upon discontinuing eltrombopag tablets, particularly if eltrombopag tablets are discontinued while the patient is on anticoagulants or antiplatelet agents. Advise patients that during therapy with eltrombopag tablets, they should continue to avoid situations or medications that may in Thrombotic/Thromboembolic Complications

Advise patients that too much eltrombopag tablets may result in excessive platelet counts and a risk for thrombotic/thromboembolic complications (see Warnings and Precautions (5.4)).

Advise patients to have a baseline ocular examination prior to administration of eltrombopag tablets and be monitored for signs and symptoms of cataracts during therapy [see Warnings and Precautions (5.5)].

Advise patients to take eltrombopag tablets at least 2 hours before or 4 hours after calcium-rich foods, mineral supplements, and antacids which contain polyvalent cations, such as iron, calcium, aluminum, magnesium, selenium, and zinc (see Dosage and tration (2.4), Drug Interactions (7.1)].

Advise women not to breastfeed during treatment with eltrombonag tablets (see Use in Specific Populations (8.2)).

Administration of Eltrombopag Tablets For patients with persistent or chronic ITP, therapy with eltrombopag tablets are administered to achieve and maintain a platelet count greater than or equal to  $50 \times 10^{\circ}$  /L as necessary to reduce the risk for bleeding (see Indications and Usage (1.1)). For patients with chronic hepatitis C, therapy with eltrombopag tablets are administered to achieve and maintain a platelet count ssary to initiate and maintain antiviral therapy with pegylated interferon and ribavirin [see Indications and Usage (1.2)

Advise patients to take eltrombopag tablets without a meal or with a meal low in calcium (  $\leq 50$  mg) and at least 2 hours before or 4 hours after other medications (e.g., antacids) and calcium-rich foods [see Dosage and Administration (2.4)]. The brands listed are the registered trademarks of their respective owners and are not trademarks of Annora Pharma Private Limited



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