

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use **IMATINIB MESYLATE TABLETS** safely and effectively. See full prescribing information for **IMATINIB MESYLATE TABLETS**.

IMATINIB MESYLATE tablets, for oral use Initial U.S. Approval: 2001

Indications and Usage (1.5, 1.6)	8/2016
Dosage and Administration (2.6, 2.7)	8/2016
Warnings and Precautions (5.10)	8/2016

INDICATIONS AND USAGE

- Newly diagnosed adult and pediatric patients with Philadelphia chromosome positive chronic myeloid leukemia (Ph+ CML) in chronic phase (1)
- Patients with Philadelphia chromosome positive chronic myeloid leukemia (Ph+ CML) in blast crisis (BC), accelerated phase (AP), or in chronic phase (CP) after relapse of interferon- α therapy (1.2)
- Adult patients with relapsed or refractory Philadelphia chromosome positive acute lymphoblastic leukemia (Ph+ ALL) (1.3)
- Adult patients with myelodysplastic/myeloproliferative diseases (MDS/MPD) associated with PDGFR (platelet-derived growth factor receptor) gene re-arrangements as determined with an FDA-approved test (1.5)
- Adult patients with aggressive systemic mastocytosis (ASM) without the D816V c-KIT mutation as determined with an FDA-approved test or with c-KIT mutational status unknown (1.6)
- Adult patients with hyperesoinophilic syndrome (HES) and/or chronic eosinophilic leukemia (CEL) who have the FIP1L1-PDGFR α fusion kinase (mutational analysis or FISH demonstration of CHC2 allele deletion) and for patients with HES and/or CEL who are FIP1L1-PDGFR α fusion kinase negative or unknown (1.7)
- Adult patients with unresectable, recurrent and/or metastatic dermatofibrosarcoma protuberans (DFSP) (1.8)

DOSAGE AND ADMINISTRATION

- Adults with Ph+ CML CP (2.2): 400 mg/day
- Adults with Ph+ CML AP or BC (2.2): 600 mg/day
- Pediatrics with Ph+ CML CP (2.3): 340 mg/m²/day
- Adults with Ph+ ALL (2.4): 600 mg/day
- Adults with MDS/MPD (2.6): 400 mg/day
- Adults with ASM (2.7): 100 mg/day or 400 mg/day
- Adults with HES/CEL (2.8): 100 mg/day or 400 mg/day
- Adults with DFSP (2.9): 800 mg/day
- Patients with mild to moderate hepatic impairment (2.12): 400 mg/day
- Patients with severe hepatic impairment (2.12): 300 mg/day

All doses of imatinib mesylate tablets should be taken with a meal and a large glass of water. Doses of 400 mg or 600 mg should be administered once daily, whereas a dose of 800 mg should be administered as 400 mg twice a day. Imatinib mesylate tablets can be dissolved in water or apple juice for patients having difficulty swallowing. Daily dosing of 800 mg and above should be accomplished using the 400 mg tablet to reduce exposure to iron.

DOSAGE FORMS AND STRENGTHS

Tablets (scored): 100 mg and 400 mg (3)

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CONTRAINDICATIONS

None. (4)

WARNINGS AND PRECAUTIONS

- Edema and severe fluid retention have occurred. Weigh patients regularly and manage unexpected rapid weight gain by drug interruption and diuretics. (5.1, 6.1)
- Cytopenias, particularly anemia, neutropenia, and thrombocytopenia, have occurred. Manage with dose reduction, dose interruption, or discontinuation of treatment. Perform complete blood counts weekly for the first month, biweekly for the second month, and periodically thereafter. (5.2)
- Severe congestive heart failure and left ventricular dysfunction have been reported, particularly in patients with comorbidities and risk factors. Monitor and treat patients with cardiac disease or risk factors for cardiac failure. (5.3)
- Severe hepatotoxicity including fatalities may occur. Assess liver function before initiation of treatment and monthly thereafter or as clinically indicated. Monitor liver function when combined with chemotherapy known to be associated with liver dysfunction. (5.4)
- Grade 3/4 hemorrhage has been reported in clinical studies in patients with newly diagnosed CML. (5.5)
- Gastrointestinal perforations, some fatal, have been reported. (5.6)
- Cardiogenic shock/let ventricular dysfunction has been associated with the initiation of imatinib mesylate in patients with conditions associated with high eosinophil levels (e.g., HES, MDS/MPD and ASM). (5.7)
- Bullous dermatologic reactions (e.g., erythema multiforme and Stevens-Johnson syndrome) have been reported with the use of imatinib mesylate. (5.8)
- Hypothyroidism has been reported in thyroidectomy patients undergoing levothyroxine replacement. Closely monitor TSH levels in such patients. (5.9)
- Fetal harm can occur when administered to a pregnant woman. Apprise women of the potential harm to the fetus, and to avoid pregnancy when taking imatinib mesylate. (5.10, 8.1)
- Growth retardation occurring in children and pre-adolescents receiving imatinib mesylate has been reported. Close monitoring of growth in children under imatinib mesylate treatment is recommended. (5.11, 6.2)
- Tumor lysis syndrome. Close monitoring is recommended. (5.12)
- Reports of motor vehicle accidents have been received in patients receiving imatinib mesylate. Caution patients about driving a car or operating machinery. (5.13)

ADVERSE REACTIONS

The most frequently reported adverse reactions (greater than or equal to 30%) were edema, nausea, vomiting, muscle cramps, musculoskeletal pain, diarrhea, rash, fatigue and abdominal pain. (6.1)

To report SUSPECTED ADVERSE REACTIONS, contact Sun Pharmaceutical Industries, Inc. at 1-800-818-4555 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- CYP3A4 inducers may decrease imatinib mesylate C_{max} and area under curve (AUC). (2.12, 7.1, 12.3)
- CYP3A4 inhibitors may increase imatinib mesylate C_{max} and AUC. (7.2, 12.3)
- Imatinib mesylate is an inhibitor of CYP3A4 and CYP2D6 which may increase the C_{max} and AUC of other drugs. (7.3, 7.4, 12.3)
- Patients who require anticoagulation should receive low-molecular weight or standard heparin and not warfarin. (7.3)

See 17 for PATIENT COUNSELING INFORMATION

Revised: 07/2017

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Table 1: Dose Adjustments for Neutropenia and Thrombocytopenia			
ASM associated with eosinophilia (starting dose 100 mg)	ANC ¹ less than 1.5 x 10 ⁹ /L and/or platelets less than 50 x 10 ⁹ /L	1	Stop imatinib mesylate tablets until ANC greater than or equal to 1.5 x 10 ⁹ /L and platelets greater than or equal to 75 x 10 ⁹ /L
HES/CEL with FIP1L1-PDGFR α fusion kinase (starting dose 100 mg)	ANC less than 1 x 10 ⁹ /L and/or platelets less than 50 x 10 ⁹ /L	2	Resume treatment with imatinib mesylate tablets at previous dose (i.e., dose before severe adverse reaction)
Chronic Phase CML (starting dose 400 mg)	ANC less than 1 x 10 ⁹ /L and/or platelets less than 50 x 10 ⁹ /L	1	Stop imatinib mesylate tablets until ANC greater than or equal to 1.5 x 10 ⁹ /L and platelets greater than or equal to 75 x 10 ⁹ /L
MDS/MPD, ASM and HES/CEL (starting dose 400 mg)	ANC less than 1 x 10 ⁹ /L and/or platelets less than 50 x 10 ⁹ /L	2	Resume treatment with imatinib mesylate tablets at the original starting dose of 400 mg
Ph+ CML: Accelerated Phase and Blast Crisis (starting dose 600 mg)	ANC less than 0.5 x 10 ⁹ /L and/or platelets less than 10 x 10 ⁹ /L	3	1. Check if cytopenia is related to leukemia (narrow aspirate or biopsy) 2. If cytopenia is unrelated to leukemia, reduce dose of imatinib mesylate tablets to 400 mg 3. If occurrence of ANC less than 1 x 10 ⁹ /L and/or platelets less than 50 x 10 ⁹ /L, repeat step 1 and resume imatinib mesylate tablets at a reduced dose of 300 mg
Ph+ CML: Accelerated Phase and Blast Crisis (starting dose 600 mg)	ANC less than 0.5 x 10 ⁹ /L and/or platelets less than 10 x 10 ⁹ /L	1	1. Check if cytopenia is related to leukemia (narrow aspirate or biopsy) 2. If cytopenia is unrelated to leukemia, reduce dose of imatinib mesylate tablets to 400 mg 3. If occurrence of ANC less than 1 x 10 ⁹ /L and/or platelets less than 50 x 10 ⁹ /L, repeat step 1 and resume imatinib mesylate tablets at a reduced dose of 260 mg ²
DFSP (starting dose 800 mg)	ANC less than 1 x 10 ⁹ /L and/or platelets less than 50 x 10 ⁹ /L	1	Stop imatinib mesylate tablets until ANC greater than or equal to 1.5 x 10 ⁹ /L and platelets greater than or equal to 75 x 10 ⁹ /L
Pediatric newly diagnosed chronic phase CML (starting dose 340 mg/m ²)	ANC less than 1 x 10 ⁹ /L and/or platelets less than 50 x 10 ⁹ /L	1	Stop imatinib mesylate tablets until ANC greater than or equal to 1.5 x 10 ⁹ /L and platelets greater than or equal to 75 x 10 ⁹ /L
Pediatric newly diagnosed chronic phase CML (starting dose 340 mg/m ²)	ANC less than 1 x 10 ⁹ /L and/or platelets less than 50 x 10 ⁹ /L	2	Resume treatment with imatinib mesylate tablets at previous dose (i.e., dose before severe adverse reaction)
Pediatric newly diagnosed chronic phase CML (starting dose 340 mg/m ²)	ANC less than 1 x 10 ⁹ /L and/or platelets less than 50 x 10 ⁹ /L	3	In the event of recurrence of ANC less than 1 x 10 ⁹ /L and/or platelets less than 50 x 10 ⁹ /L, repeat step 1 and resume imatinib mesylate tablets at a reduced dose of 260 mg ²

3 DOSAGE FORMS AND STRENGTHS

100 mg film-coated tablets
Yellow, circular, biconvex, film-coated tablet debossed with "472" on one side and breakline on the other side.

400 mg film-coated tablets
Yellow, oval-shaped, biconvex, film-coated tablet debossed with "475" on one side and breakline on the other side.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Fluid Retention and Edema
Imatinib mesylate is often associated with edema and occasionally serious fluid retention (see Adverse Reactions (6.1)). Weigh and monitor patients regularly for signs and symptoms of fluid retention. Investigate unexpected rapid weight gain carefully and provide appropriate treatment. The probability of edema was increased with higher imatinib mesylate dose and age greater than 65 years in the CML studies. Severe peripheral edema was reported in 1.5% of newly diagnosed CML patients taking imatinib mesylate tablets, and in 2% to 6% of other adult CML patients taking imatinib mesylate tablets. In addition, other severe fluid retention (e.g., pleural effusion, pericardial effusion, pulmonary edema, and ascites) reactions were reported in 1.3% of newly diagnosed CML patients taking imatinib mesylate tablets, and in 2% of other adult CML patients taking imatinib mesylate tablets. In a randomized trial in patients with newly diagnosed Ph+ CML in chronic phase comparing imatinib mesylate and nilotinib, severe (Grade 3 or 4) fluid retention occurred in 2.5% of patients receiving imatinib mesylate and in 3.9% of patients receiving nilotinib 300 mg twice daily. Edemas (including pleural effusion, pericardial effusion, ascites) or pulmonary edema were observed in 2.1% (none were Grade 3 or 4) of patients in the imatinib mesylate arm and 2.2% (0.7% Grade 3 or 4) of patients in the nilotinib 300 mg twice daily arm.

5.2 Hematologic Toxicity
Treatment with imatinib mesylate is associated with anemia, neutropenia, and thrombocytopenia. Perform complete blood counts weekly for the first month, biweekly for the second month, and periodically thereafter or as clinically indicated. For example, every 2 to 3 months. In CML, the occurrence of these cytopenias is dependent on the stage of disease and is more frequent in patients with accelerated phase CML or blast crisis than in patients with chronic phase CML. In pediatric CML patients the most frequent toxicities observed were Grade 3 or 4 cytopenias including neutropenia, thrombocytopenia, and anemia. These generally occur within the first several months of therapy (see Dosage and Administration (2.14)).

5.3 Congestive Heart Failure and Left Ventricular Dysfunction
Congestive heart failure and left ventricular dysfunction have been reported in patients taking imatinib mesylate tablets. Cardiac adverse reactions were more frequent in patients with advanced age or co-morbidities including previous medical history of cardiac disease. In an international randomized Phase 3 study in 1,100 patients with newly diagnosed Ph+ CML in chronic phase, severe cardiac failure and left ventricular dysfunction were observed in 0.7% of patients taking imatinib mesylate tablets compared to 0.9% of patients taking IFN + Ara-C. In another randomized trial in newly diagnosed Ph+ CML patients in chronic phase that compared imatinib mesylate and nilotinib, cardiac failure was observed in 1.1% of patients in the imatinib mesylate arm and 2.2% of patients in the nilotinib 300 mg twice daily arm and severe (Grade 3 or 4) cardiac failure occurred in 0.7% of patients in each group. Carefully monitor patients with cardiac disease or risk factors for cardiac failure. Evaluate and treat any patient with signs or symptoms consistent with cardiac or renal failure.

5.4 Hepatotoxicity
Hepatotoxicity, occasionally severe, may occur with imatinib mesylate (see Adverse Reactions (6.1)). Signs of liver failure including jaundice requiring liver transplants have been reported with both short-term and long-term use of imatinib mesylate. Monitor liver function (transaminases, bilirubin, and alkaline phosphatase) before initiation of treatment and monthly, or as clinically indicated. Manage laboratory abnormalities with imatinib mesylate interruption and/or dose reduction (see Dosage and Administration (2.13)). When imatinib mesylate is combined with chemotherapy, liver toxicity in the form of transaminitis elevation and hyperbilirubinemia has been observed. Additionally, there have been reports of acute liver failure. Monitoring of hepatic function is recommended.

