HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use BOSULIF safely and effectively. See full prescribing information for BOSULIF.

BOSULIF[®] (bosutinib) tablets, for oral use Initial U.S. Approval: 2012

RECENT MAJOR CHANGES				
Warnings and Precautions, Embryo-Fetal Toxicity (5.7)	8/2019			
Warnings and Precautions, Cardiac Failure (5.4)	10/2019			

-----INDICATIONS AND USAGE------BOSULIF is a kinase inhibitor indicated for the treatment of adult patients with

- Newly-diagnosed chronic phase Ph+ chronic myelogenous leukemia (CML). This indication is approved under accelerated approval based on molecular and cytogenetic response rates. Continued approval for this indication may be contingent upon verification and confirmation of clinical benefit in an ongoing long-term follow up trial. (1, 14)
- Chronic, accelerated, or blast phase Ph+ CML with resistance or intolerance to prior therapy. (1)

-----DOSAGE AND ADMINISTRATION------

- Newly-diagnosed chronic phase Ph+ CML: 400 mg orally once daily with food. (2.1)
- Chronic, accelerated, or blast phase Ph+ CML with resistance or intolerance to prior therapy: 500 mg orally once daily with food. (2.1)
- Consider dose escalation by increments of 100 mg once daily to a maximum of 600 mg daily in patients who do not reach complete hematologic, cytogenetic, or molecular response and do not have Grade 3 or greater adverse reactions. (2.2)
- Adjust dosage for toxicity and organ impairment (2)

-----DOSAGE FORMS AND STRENGTHS------Tablets: 100 mg, 400 mg, and 500 mg. (3)

-----WARNINGS AND PRECAUTIONS------

- Gastrointestinal Toxicity: Monitor and manage as necessary. Withhold, dose reduce, or discontinue BOSULIF. (2.3, 5.1)
- Myelosuppression: Monitor blood counts and manage as necessary. (2.4, 5.2)

FULL PRESCRIBING INFORMATION: CONTENTS* 1 INDICATIONS AND USAGE

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- 2.1 Recommended Dosing
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- Hepatic Toxicity: Monitor liver enzymes at least monthly for the first 3 months and as needed. Withhold, dose reduce, or discontinue BOSULIF. (2.3, 5.3)
- Cardiac Failure: Monitor and manage as necessary. (5.4)
- Fluid Retention: Monitor patients and manage using standard of care treatment. Withhold, dose reduce, or discontinue BOSULIF. (2.3, 5.5)
- Renal Toxicity: Monitor patients for renal function at baseline and during therapy with BOSULIF. (5.6)
- Embryo-Fetal Toxicity: BOSULIF can cause fetal harm. Advise patients of potential risk to a fetus and to use effective contraception. (5.7)

-----ADVERSE REACTIONS------Most common adverse reactions in patients with newly-diagnosed CML (incidence $\geq 20\%$) are diarrhea, nausea, thrombocytopenia, rash, increased alanine aminotransferase, abdominal pain, increased aspartate aminotransferase. (6)

Most common adverse reactions in patients with CML who were resistant or intolerant to prior therapy (incidence $\geq 20\%$) are diarrhea, nausea, abdominal pain, rash, thrombocytopenia, vomiting, anemia, fatigue, pyrexia, cough, headache, alanine aminotransferase, and edema. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Pfizer Inc. at 1-800-438-1985 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

-----DRUG INTERACTIONS------

- Strong and Moderate CYP3A Inhibitors: Avoid concomitant use with BOSULIF. (7.1)
- Strong CYP3A Inducers: Avoid concomitant use with BOSULIF. (7.1)
- Proton Pump Inhibitors: Use short-acting antacids or H2 blockers as an alternative to proton pump inhibitors. (7.1)

USE IN SPECIFIC POPULATIONS
 Lactation: Advise women not to breastfeed. (8.2)

See 17 for PATIENT COUNSELING INFORMATION and FDAapproved patient labeling.

Revised: 6/2020

8 USE IN SPECIFIC POPULATIONS

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

BOSULIF is indicated for the treatment of adult patients with:

- Newly-diagnosed chronic phase (CP) Philadelphia chromosome-positive chronic myelogenous leukemia (Ph+ CML). This indication is approved under accelerated approval based on molecular and cytogenetic response rates *[see Clinical Studies (14.1)]*. Continued approval for this indication may be contingent upon verification and confirmation of clinical benefit in an ongoing long-term follow up trial.
- Chronic phase, accelerated phase (AP), or blast phase (BP) Ph+ CML with resistance or intolerance to prior therapy.

2 DOSAGE AND ADMINISTRATION

2.1 Recommended Dosing

The recommended dose is taken orally once daily with food. The tablet is to be swallowed whole and should not be broken or cut. Continue treatment with BOSULIF until disease progression or intolerance to therapy.

If a dose is missed beyond 12 hours, the patient should skip the dose and take the usual prescribed dose on the following day.

Newly-Diagnosed CP Ph+ CML

The recommended dose of BOSULIF is 400 mg orally once daily with food.

CP, AP, or BP Ph+ CML with Resistance or Intolerance to Prior Therapy

The recommended dose and schedule of BOSULIF is 500 mg orally once daily with food.

2.2 Dose Escalation

In clinical studies of adult Ph+ CML patients, dose escalation by increments of 100 mg once daily to a maximum of 600 mg once daily was allowed in patients who did not achieve or maintain a hematologic, cytogenetic, or molecular response and who did not have Grade 3 or higher adverse reactions at the recommended starting dosage.

2.3 Dose Adjustments for Non-Hematologic Adverse Reactions

Elevated liver transaminases: If elevations in liver transaminases greater than $5\times$ institutional upper limit of normal (ULN) occur, withhold BOSULIF until recovery to less than or equal to $2.5\times$ ULN and resume at 400 mg once daily thereafter. If recovery takes longer than 4 weeks, discontinue BOSULIF. If transaminase elevations greater than or equal to $3\times$ ULN occur concurrently with bilirubin elevations greater than $2\times$ ULN and alkaline phosphatase less than $2\times$ ULN (Hy's law case definition), discontinue BOSULIF [*see Warnings and Precautions* (5.3)].

Diarrhea: For National Cancer Institute Common Terminology Criteria for Adverse Events (NCI CTCAE) Grade 3-4 diarrhea (increase of greater than or equal to 7 stools/day over baseline/pretreatment), withhold BOSULIF until recovery to Grade less than or equal to 1. BOSULIF may be resumed at 400 mg once daily [see Warnings and Precautions (5.1)].

For other clinically significant, moderate or severe non-hematological toxicity, withhold BOSULIF until the toxicity has resolved, then consider resuming BOSULIF at a dose reduced by 100 mg taken once daily. If clinically appropriate, consider re-escalating the dose of BOSULIF to the starting dose taken once daily. Doses less than 300 mg/day have been used in patients; however, efficacy has not been established.

2.4 Dose Adjustments for Myelosuppression

Dose reductions for severe or persistent neutropenia and thrombocytopenia are described below (Table 1).

	· · · · · · · · · · · · · · · · · · ·
ANC ^a less than 1000×10 ⁶ /L	Withhold BOSULIF until ANC greater than or equal to 1000×10^6 /L and
	platelets greater than or equal to $50,000 \times 10^6$ /L.
or	
01	
	Resume treatment with BOSULIF at the same dose if recovery occurs within
Platelets less than $50,000 \times 10^6/L$	2 weeks. If blood counts remain low for greater than 2 weeks, upon recovery,
r latelets less than 50,000×10/L	
	reduce dose by 100 mg and resume treatment.
	If cytopenia recurs, reduce dose by an additional 100 mg upon recovery and
	resume treatment.
	Doses less than 300 mg/day have been used in patients; however, efficacy has
	not been established.
	not been established.

Table 1: Dose Adjustments for Neutropenia and Thrombocytopenia

^a Absolute Neutrophil Count

2.5 Dose Adjustments for Renal Impairment or Hepatic Impairment

The recommended starting doses for patients with renal and hepatic impairment are described in Table 2 below.

Table 2:
Dose Adjustments for Renal and Hepatic Impairment

	Recommended Starting Dosage		
	Newly-diagnosed chronic phase Ph+ CML ²	Chronic, accelerated, or blast phase Ph+ CML with resistance or intolerance to prior therapy	
Normal renal and hepatic function	400 mg daily	500 mg daily	
Renal impairment			
Creatinine clearance 30 to 50 mL/min	300 mg daily	400 mg daily	
Creatinine clearance less than 30 mL/min	200 mg daily	300 mg daily	
Hepatic impairment			
Mild (Child-Pugh A), Moderate (Child-Pugh B) or Severe (Child-Pugh C)	200 mg daily ^a	200 mg daily ^a	

[see Use in Specific Populations (8.6, 8.7) and Clinical Pharmacology (12.3)].

Abbreviations: CML=chronic myelogenous leukemia; Ph+=Philadelphia chromosome-positive.

^a There are no clinical data for efficacy at the dose of 200 mg once daily in patients with CML.

3 DOSAGE FORMS AND STRENGTHS

- 100 mg tablets: yellow, oval, biconvex, film-coated tablets debossed with "Pfizer" on one side and "100" on the other.
- 400 mg tablets: orange, oval, biconvex, film-coated tablets debossed with "Pfizer" on one side and "400" on the other.
- 500 mg tablets: red, oval, biconvex, film-coated tablets debossed with "Pfizer" on one side and "500" on the other.

4 CONTRAINDICATIONS

BOSULIF is contraindicated in patients with a history of hypersensitivity to BOSULIF. Reactions have included anaphylaxis. In the BOSULIF single-agent cancer studies, anaphylactic shock occurred in less than 0.2% of treated patients.

5 WARNINGS AND PRECAUTIONS

5.1 Gastrointestinal Toxicity

Diarrhea, nausea, vomiting, and abdominal pain occur with BOSULIF treatment. Monitor and manage patients using standards of care, including antidiarrheals, antiemetics, and fluid replacement.

In the randomized clinical trial in patients with newly-diagnosed Ph+ CML, the median time to onset for diarrhea (all grades) was 3 days and the median duration per event was 3 days.

Among 546 patients in a single-arm study in patients with CML who were resistant or intolerant to prior therapy, the median time to onset for diarrhea (all grades) was 2 days and the median duration per event was 2 days. Among the patients who experienced diarrhea, the median number of episodes of diarrhea per patient during treatment with BOSULIF was 3 (range 1-268).

To manage gastrointestinal toxicity, withhold, dose reduce, or discontinue BOSULIF as necessary [see Dosage and Administration (2.3) and Adverse Reactions (6)].

5.2 Myelosuppression

Thrombocytopenia, anemia and neutropenia occur with BOSULIF treatment. Perform complete blood counts weekly for the first month of therapy and then monthly thereafter, or as clinically indicated. To manage myelosuppression, withhold, dose reduce, or discontinue BOSULIF as necessary [see Dosage and Administration (2.4) and Adverse Reactions (6)].

5.3 Hepatic Toxicity

Bosutinib may cause elevations in serum transaminases (alanine aminotransferase [ALT], aspartate aminotransferase [AST]).

One case consistent with drug induced liver injury (defined as concurrent elevations in ALT or AST greater than or equal to 3×ULN with total bilirubin greater than 2×ULN and alkaline phosphatase less than 2×ULN) occurred without alternative causes in a breast cancer (a disease for which BOSULIF is not indicated) trial of BOSULIF in combination with letrozole. The patient recovered fully following discontinuation of BOSULIF. This case represented 1 out of 1611 patients in BOSULIF clinical trials.

In the 268 patients from the safety population in the randomized clinical trial in patients with newly-diagnosed CML in the BOSULIF treatment group, the incidence of ALT elevation was 31% and AST elevation was 23%. Of patients who experienced transaminase elevations of any grade, 79% experienced their first event within the first 3 months. The median time to onset of increased ALT and AST was 32 and 43 days, respectively, and the median duration was 20 and 15 days, respectively.

Among the 546 patients in a single-arm study in patients with CML who were resistant or intolerant to prior therapy, the incidence of ALT elevation was 18% and AST elevation was 15%. Twenty percent of the patients experienced an increase in either ALT or AST. Most cases of transaminase elevations in this study occurred early in treatment; of patients who experienced transaminase elevations of any grade, more than 80% experienced their first event within the first 3 months. The median time to onset of increased ALT and AST was 35 and 33 days, respectively, and the median duration for each was 21 days.

Perform hepatic enzyme tests monthly for the first 3 months of BOSULIF treatment and as clinically indicated. In patients with transaminase elevations, monitor liver enzymes more frequently. Withhold, dose reduce, or discontinue BOSULIF as necessary *[see Dosage and Administration (2.3) and Adverse Reactions (6)]*.

5.4 Cardiac Failure

Cardiac failure and left ventricular dysfunction have been reported in patients taking BOSULIF. These events occurred more frequently in previously treated patients than in patients with newly diagnosed CML and were more frequent in patients with advanced age or risk factors, including previous medical history of cardiac failure.

In a randomized study with newly diagnosed CML, cardiac failure occurred in 1.5% of patients treated with BOSULIF compared to 0.8% of patients treated with imatinib.

In a single-arm study in patients with CML who were resistant or intolerant to prior therapy, cardiac failure was observed in 5.3% of patients treated with BOSULIF.

Monitor patients for signs and symptoms consistent with cardiac failure and treat as clinically indicated. Interrupt, dose reduce, or discontinue BOSULIF as necessary [see Dosage and Administration (2.3)].

5.5 Fluid Retention

Fluid retention occurs with BOSULIF and may manifest as pericardial effusion, pleural effusion, pulmonary edema, and/or peripheral edema.

In the randomized clinical trial of 268 patients with newly-diagnosed CML in the bosutinib treatment group, 1 patient (0.4%) experienced severe fluid retention of Grade 3 pericardial effusion. Among 546 patients in a single-arm study in patients with Ph+ CML who were resistant or intolerant to prior therapy, Grade 3 or 4 fluid retention was reported in 26 patients (5%). Some patients experienced more than one fluid retention event. Specifically, 21 patients experienced Grade 3 or 4 pleural effusions, 7 patients experienced Grade 3 or Grade 4 pericardial effusions, and 6 patients experienced Grade 3 edema.

Monitor and manage patients using standards of care. Interrupt, dose reduce or discontinue BOSULIF as necessary [see Dosage and Administration (2.3) and Adverse Reactions (6)].

5.6 Renal Toxicity

An on-treatment decline in estimated glomerular filtration rate (eGFR) has occurred in patients treated with BOSULIF. Table 3 identifies the shift from baseline to lowest observed eGFR during BOSULIF therapy for patients in the pooled leukemia studies regardless of line of therapy. The median duration of therapy with BOSULIF was approximately 14 months (range, 0.03 to 123) for patients in these studies.

Table 3: Shift From Baseline to Lowest Observed eGFR Group During Treatment Safety Population in Clinical Studies

 $(N-1272)^*$

				(N=1272)			
Baseline		Follow-Up					
		Normal	Mild	Mild to Moderate	Moderate to Severe	Severe	Kidney Failure
Renal Function Status	N	n (%)	n (%)	n (%)	n (%)	n (%)	n (%)
Normal	468	102 (21.8)	298 (63.7)	46 (9.8)	16 (3.4)	2 (0.4)	2 (0.4)
Mild	639	11 (1.7)	266 (41.6)	250 (39.1)	83 (13.0)	21 (3.3)	3 (0.5)
Mild to Moderate	128	0	8 (6.3)	45 (35.2)	57 (44.5)	18 (14.1)	0
Moderate to Severe	32	0	1 (3.1)	1 (3.1)	9 (28.1)	17 (53.1)	3 (9.4)
Severe	1	0	0	0	0	0	1 (100)
Total	1268	113 (8.9)	573 (45.2)	342 (27.0)	165 (13.0)	58 (4.6)	9 (0.7)

Abbreviations: eGFR=estimated glomerular filtration rate; N/n=number of patients.

Notes: Grading is based on Modification in Diet in Renal Disease method (MDRD).

Kidney Disease: Improving Global Outcomes (KDIGO) Classification by eGFR: Normal: greater than or equal to 90, Mild: 60 to less than 90, Mild to Moderate: 45 to less than 60, Moderate to Severe: 30 to less than 45, Severe: 15 to less than 30, Kidney Failure: less than 15 ml/min/1.73 m².

*Among the 1272 patients, eGFR was missing in 9 patients at baseline or on-therapy. There were no patients with kidney failure at baseline.

Monitor renal function at baseline and during therapy with BOSULIF, with particular attention to those patients who have preexisting renal impairment or risk factors for renal dysfunction. Consider dose adjustment in patients with baseline and treatment emergent renal impairment [see Dosage and Administration (2.5)].

5.7 Embryo-Fetal Toxicity

Based on findings from animal studies and its mechanism of action, BOSULIF can cause fetal harm when administered to a pregnant woman. There are no available data in pregnant women to inform the drug-associated risk. In animal reproduction studies conducted in rats and rabbits, oral administration of bosutinib during organogenesis caused adverse developmental outcomes, including structural abnormalities, embryo-fetal mortality, and alterations to growth at maternal exposures (AUC) as low as 1.2 times the human exposure at the dose of 500 mg/day (*see Data*). Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment and for at least 2 weeks after the last dose [*see Use in Specific Populations (8.1, 8.3) and Clinical Pharmacology (12.1)*].

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are discussed in greater detail in other sections of the labeling:

- Gastrointestinal toxicity [see Warnings and Precautions (5.1)].
- Myelosuppression [see Warnings and Precautions (5.2)].
- Hepatic toxicity [see Warnings and Precautions (5.3)].
- Cardiac Failure [see Warnings and Precautions (5.4)]
- Fluid retention [see Warnings and Precautions (5.5)].
- Renal toxicity [see Warnings and Precautions (5.6)].

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 to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Serious adverse reactions reported include anaphylactic shock [see Contraindications (4)], myelosuppression, gastrointestinal toxicity (diarrhea), fluid retention, hepatotoxicity and rash.

Adverse Reactions in Patients With Newly-Diagnosed CP CML

The clinical trial randomized and treated 533 patients with newly-diagnosed CP CML to receive BOSULIF 400 mg daily or imatinib 400 mg daily as single agents (Newly-Diagnosed CP CML Study) [see Clinical Studies (14.1)]. The safety population (received at least 1 dose of BOSULIF) included:

• two hundred sixty-eight (268) patients with newly-diagnosed CP CML had a median duration of BOSULIF treatment of 14.1 months (range: 0.3 to 24.7 months) and a median dose intensity of 391.8 mg/day.

Adverse reactions reported for greater than or equal to 20% of bosutinib patients with newly-diagnosed CML (N=268) were diarrhea (70%), nausea (35%), thrombocytopenia (35%), rash (34%), increased ALT (31%), abdominal pain (25%), and increased AST (23%) [see Clinical Studies (14.1)].

Table 4 identifies adverse reactions greater than or equal to 10% for All Grades and Grades 3 or 4 (3/4) for the Phase 3 CP CML safety population.

Adverse Reaction	Chronic l	Bosutinib 400 mg Chronic Phase CML N=268		b 400 mg Phase CML 265
	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)
Diarrhea	70	8	34	<1
Nausea	35	0	38	0
Thrombocytopenia ^a	35	14	20	6
Rash ^b	34	1	21	2
Alanine aminotransferase increased	31	19	6	2
Abdominal pain ^c	25	2	15	<1
Aspartate aminotransferase increased	23	10	6	2
Anemia ^d	19	3	19	5
Headache	19	1	13	1
Fatigue ^e	19	<1	19	0
Vomiting	18	1	16	0

Table 4: Adverse Reactions (10% or Greater) in Patients With Newly-Diagnosed CML in Bosutinib 400 mg Study

Adverse Reaction	Chronic	Bosutinib 400 mg Chronic Phase CML N=268		b 400 mg Phase CML •265
	All Grades (%)	Grade 3/4 (%)	All Grades (%)	Grade 3/4 (%)
Lipase increased ^f	13	10	8	5
Pyrexia	13	<1	8	0
Respiratory tract infection ^g	12	<1	12	<1
Neutropenia ^h	11	7	21	12
Arthralgia	11	<1	13	0
Asthenia	11	0	6	0
Appetite decreased	10	<1	6	0

Abbreviation: CML=Chronic myelogenous leukemia, N=number of patients.

^a Thrombocytopenia includes the following preferred terms: Platelet count decreased, Thrombocytopenia.

^b Rash includes the following preferred terms: Acne, Dermatitis, Dermatitis acneiform, Dermatitis allergic, Dermatitis exfoliative, Drug reaction with eosinophilia and systemic symptoms, Photosensitivity reaction, Rash, Rash erythematous, Rash generalised, Rash macular, Rash maculo-papular, Rash papular, Rash pruritic, Urticaria.

^c Abdominal pain includes the following preferred terms: Abdominal discomfort, Abdominal pain, Abdominal pain lower, Abdominal pain upper, Abdominal tenderness, Gastrointestinal pain.

^d Anemia includes the following preferred terms: Anemia, Hemoglobin decreased

^e Fatigue includes the following preferred terms: Fatigue, Malaise.

^f Lipase increased includes the following preferred terms: Hyperlipasemia, Lipase increased.

^g Respiratory tract infection includes the following preferred terms: Lower respiratory tract infection, Respiratory tract infection, Viral upper respiratory tract infection, Viral upper respiratory tract infection.

^h Neutropenia includes the following preferred terms: Neutropenia, Neutrophil count decreased.

In the randomized study in patients with newly-diagnosed CP CML, one patient in the group treated with BOSULIF experienced a Grade 3 QTc prolongation (>500 msec). Patients with uncontrolled or significant cardiovascular disease including QT interval prolongation were excluded by protocol.

Table 5 identifies the clinically relevant or severe Grade 3/4 laboratory test abnormalities for the Phase 3 newly-diagnosed CML safety population.

Table 5: Number (%) of Patients With Clinically Relevant or Grade 3/4 Laboratory Test Abnormalities in Patients With Newly-Diagnosed CML in Bosutinib 400 mg Study, Safety Population

	Bosutinib Chronic Phase CML N=268 n (%)	Imatinib Chronic Phase CML N=265 n (%)
Hematology Parameters		
Platelet Count (Low) less than 50×10 ⁹ /L	38 (14.2)	17 (6.4)
Absolute Neutrophil Count less than 1×10^{9} /L	24 (9.0)	49 (18.5)
Hemoglobin (Low) less than 80 g/L	19 (7.1)	15 (5.7)
White Blood Cell Count (Low) less than 2×10 ⁹ /L	15 (5.6)	20 (7.5)

	Bosutinib Chronic Phase CML N=268 n (%)	Imatinib Chronic Phase CML N=265 n (%)
Biochemistry Parameters		
SGPT/ALT greater than 5.0×ULN	62 (23.1)	7 (2.6)
SGOT/AST greater than 5.0×ULN	32 (11.9)	8 (3.0)
Lipase greater than 2×ULN	35 (13.1)	16 (6.0)
Phosphorus (Low) less than 0.6 mmol/L	12 (4.5)	45 (17.0)
Total Bilirubin greater than 3.0×ULN	3 (1.1)	2 (0.8)
Amylase greater than 2×ULN	6 (2.2)	4 (1.5)
Creatinine greater than 3.0×baseline; greater than 3.0×ULN	0	2 (0.8)

Abbreviations: ALT=alanine aminotransferase; AST=aspartate aminotransferase; CML=chronic myelogenous leukemia; SGPT=serum glutamic-pyruvic transaminase; SGOT=serum glutamic-oxaloacetic transaminase; N/n=number of patients; ULN=upper limit of normal.

Adverse Reactions in Patients With Imatinib-Resistant or -Intolerant Ph+ CP, AP, and BP CML

The single-arm clinical trial enrolled patients with Ph+ CP, AP, or BP CML and with resistance or intolerance to prior therapy [see Clinical Studies (14)]. The safety population (received at least 1 dose of BOSULIF) included 546 CML patients:

- two hundred eighty-four (284) patients with CP CML previously treated with imatinib only who had a median duration of BOSULIF treatment of 26 months, and a median dose intensity of 442 mg/day.
- one hundred nineteen (119) patients with CP CML previously treated with both imatinib and at least 1 additional tyrosine kinase inhibitor (TKI) who had a median duration of BOSULIF treatment of 9 months and a median dose intensity of 442 mg/day.
- one hundred forty-three (143) patients with advanced phase CML including 79 patients with AP CML and 64 patients with BP CML. In the patients with AP CML and BP CML, the median duration of BOSULIF treatment was 10 months and 3 months, respectively. The median dose intensity was 425 mg/day, and 456 mg/day, in the AP CML and BP CML cohorts, respectively.

Adverse reactions of any toxicity grade reported for greater than or equal to 20% of patients in the safety population of the single-arm trial in patients with CP CML (N=546) who were resistant or intolerant to prior therapy were diarrhea (85%), nausea (47%), abdominal pain (42%), rash (42%), thrombocytopenia (40%), vomiting (37%), anemia (27%), fatigue (26%), pyrexia (23%), cough (22%), headache (21%), ALT (20%), and edema (20%) [see Clinical Studies (14.2)].

Table 6 identifies adverse reactions greater than or equal to 10% for All Grades and Grades 3 or 4 for the Phase 1/2 CML safety population based on long-term follow-up.

Table 6:

Adverse Reactions (10% or Greater) in Patients With CML Who Were Resistant or Intolerant to Prior Therapy in Single-Arm Trial*

	Chronic Phase CML N=403			Phase CML 143
	All Grades	Grade 3/4	All Grades	Grade 3/4
Diarrhea	(%) 85	(%) 9	(%) 76	<u>(%)</u> 4
		-		
Nausea	47	1	48	2
Abdominal Pain ^a	42	2	31	6
Rash ^b	42	9	38	5
Thrombocytopenia ^c	40	26	45	39
Vomiting	37	3	43	3
Anemia ^d	27	11	38	27
Fatigue ^e	26	2	21	5
Pyrexia	23	<1	37	2
Cough	22	0	22	0
Headache	21	<1	17	4
Alanine aminotransferase increased	20	8	10	5
Neutropenia ^f	18	12	22	20
Arthralgia	17	<1	14	0
Aspartate aminotransferase increased	16	3	11	3
Edema ^g	20	1	17	2
Respiratory tract infection ^h	15	<1	10	0
Decreased appetite	14	<1	13	0
Back pain	13	<1	8	1
Nasopharyngitis	13	0	6	0
Asthenia	13	2	10	<1
Pleural effusion	12	4	9	4
Dyspnea	12	2	20	6
Pruritus	12	<1	7	0
Dizziness	11	0	13	<1
Leukopenia ⁱ	10	4	15	12
Blood creatinine increased	10	<1	6	<1
Influenza	10	<1	3	0
Chest pain ^j	7	1	12	1

Abbreviations: CML=chronic myelogenous leukemia; N=number of patients.

*Based on a Minimum of 48 Months of Follow-up.

Advanced Phase CML includes patients with Accelerated Phase and Blast Phase CML.

^c Thrombocytopenia includes the following preferred terms: Platelet count decreased, Thrombocytopenia

^d Anemia includes the following preferred terms: Anemia, Hemoglobin decreased.

^e Fatigue includes the following preferred terms: Fatigue, Malaise.

^f Neutropenia includes the following preferred terms: Neutropenia, Neutrophil count decreased

^g Edema includes the following preferred terms containing: Edema, Edema peripheral, Face edema,

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^a Abdominal pain includes the following preferred terms: Abdominal discomfort, Abdominal pain, Abdominal pain lower, Abdominal pain upper, Abdominal tenderness, Gastrointestinal pain

^b Rash includes the following preferred terms: Acne, Dermatitis, Dermatitis acneiform, Dermatitis allergic, Drug eruption, Exfoliative rash, Photosensitivity reaction, Rash, Rash erythematous, Rash generalised, Rash macular, Rash maculo-papular, Rash papular, Rash pruritic, Urticaria

Chronic Phase CML N=403		Advanced Phase CML N=143	
All Grades	Grade 3/4	All Grades	Grade 3/4
(%)	(%)	(%)	(%)

Localized edema.

^h Respiratory tract infection includes the following preferred terms: Lower respiratory tract infection, Respiratory tract infection, Respiratory tract infection viral, Upper respiratory tract infection, Viral upper respiratory tract infection.

ⁱ Leukopenia includes the following preferred terms: Leukopenia, White blood cell count decreased.

^j Chest pain included the following preferred terms: Chest discomfort, Chest pain.

In the single-arm study in patients with CML who were resistant or intolerant to prior therapy, 1 patient (0.2%) experienced QTcF interval of greater than 500 milliseconds. Patients with uncontrolled or significant cardiovascular disease including QT interval prolongation were excluded by protocol.

Table 7 identifies the clinically relevant or severe Grade 3/4 laboratory test abnormalities for the safety population of the study in patients with CML who were resistant or intolerant to prior therapy based on long-term follow-up.

Table 7:

Number (%) of Patients With Clinically Relevant or Grade 3/4 Laboratory Test Abnormalities in the Safety Population of the Study of Patients With CML Who Were Resistant or Intolerant to Prior Therapy^{*}

	Chronic Phase	Advanced	All CP and
	(CP) CML	Phase (AdvP)	AdvP CML
	N=403	CML	N=546
	n (%)	N=143	n (%)
		n (%)	
Hematology Parameters			
Platelet Count (Low) less than 50×10 ⁹ /L	105 (26)	82 (57)	187 (34)
Absolute Neutrophil Count less than 1×10^9 /L	65 (16)	55 (39)	120 (22)
Hemoglobin (Low) less than 80 g/L	51 (13)	54 (38)	105 (19)
Biochemistry Parameters			
SGPT/ALT greater than 5.0×ULN	43 (11)	8 (6)	51 (9)
SGOT/AST greater than 5.0×ULN	19 (5)	5 (4)	24 (4)
Lipase greater than 2×ULN	42 (10)	9 (6)	51 (9)
Phosphorus (Low) less than 0.6 mmol/L	30 (7)	10 (7)	40 (7)
Total Bilirubin greater than 3.0×ULN	3 (1)	4 (3)	7 (1)

*Based on a Minimum of 48 Months of Follow-up.

Abbreviations: ALT=alanine aminotransferase; AST=aspartate aminotransferase; CML=chronic myelogenous leukemia; N/n=number of patients; SGPT=serum glutamate-pyruvate transaminase; SGOT=serum glutamate-oxaloacetate aminotransferase; ULN=upper limit of normal.

Additional Adverse Reactions From Multiple Clinical Trials

The following adverse reactions were reported in patients in clinical trials with BOSULIF (less than 10% of BOSULIF-treated patients). They represent an evaluation of the adverse reaction data from all 1272 patients with leukemia who received at least 1 dose of single-agent BOSULIF. These adverse reactions are presented by system organ class and are ranked by frequency. These adverse reactions are included based on clinical relevance and ranked in order of decreasing seriousness within each category.

Blood and Lymphatic System Disorders: less than 0.01% - Febrile neutropenia, Granulocytopenia

Cardiac Disorders: 1% and less than 10% - Pericardial effusion; 0.1% and less than 1% - Pericarditis

Ear and Labyrinth Disorders: 1% and less than 10% - Tinnitus

Endocrine Disorders: 1% and less than 10% - Hypothyroidism; 0.1% and less than 1% - Hyperthyroidism

Vascular Disorders: 1% and less than 10% - Hypertension

<u>Gastrointestinal Disorders</u>: 1% and less than 10% - Gastritis; 0.1% and less than 1% - Pancreatitis (includes Pancreatitis, Pancreatitis acute), Gastrointestinal hemorrhage (includes Anal hemorrhage, Gastrointestinal hemorrhage, Lower gastrointestinal hemorrhage, Rectal hemorrhage)

General Disorders and Administrative Site Conditions: 1% and less than 10% - Pain

<u>Hepatobiliary Disorders</u>: *1% and less than 10%* - Hepatotoxicity (includes Hepatotoxicity, Hepatitis, Hepatitis toxic, Liver disorder), Hepatic function abnormal (includes Hepatic function abnormal, Liver function test abnormal, Transaminases increased); 0.1% and less than 1% - Liver injury (includes Liver injury, Drug-induced liver injury)

Immune System Disorders: 0.1% and less than 1% - Anaphylactic shock, Drug hypersensitivity

Infections and Infestations: 1% and less than 10% - pneumonia (includes pneumonia, atypical pneumonia), influenza, bronchitis

<u>Investigations</u>: *1% and less than 10%* - Electrocardiogram QT prolonged (includes Electrocardiogram QT prolonged, Long QT syndrome), Blood bilirubin increased (includes Blood bilirubin increased, Hyperbilirubinaemia), Blood creatine phosphokinase increased, Amylase increased, GGT increased

<u>Metabolism and Nutrition Disorders</u>: *1% and less than 10%* - Hypophosphatemia (includes Hypophosphatemia, Blood phosphorus decreased), Hyperkalemia (includes Hyperkalemia, Blood potassium increased), Dehydration

Musculoskeletal and Connective Tissue Disorders: 1% and less than 10% - Myalgia

Nervous System Disorders: 1% and less than 10% - Dysgeusia

Renal and Urinary Disorders: 1% and less than 10% - Acute kidney injury, Renal impairment, Acute renal failure, Renal failure

<u>Respiratory, Thoracic and Mediastinal Disorders</u>: 0.1% and less than 1% - Acute pulmonary edema, Respiratory failure, Pulmonary hypertension

Skin and Subcutaneous Disorders: 0.1% and less than 1% - Erythema multiforme

6.2 Post-Marketing Experience

The following additional adverse reactions have been identified during post-approval use of BOSULIF. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

Blood and Lymphatic System Disorders: Thrombotic microangiopathy

Skin and Subcutaneous Tissue Disorders: Stevens-Johnson syndrome

7 DRUG INTERACTIONS

7.1 Effect of Other Drugs on BOSULIF

Strong or Moderate CYP3A Inhibitors

Concomitant use with a strong or moderate CYP3A inhibitor increased bosutinib C_{max} and AUC compared to BOSULIF alone [see Clinical Pharmacology (12.3)] which may increase the risk of toxicities. Avoid the concomitant use of strong or moderate CYP3A inhibitors with BOSULIF.

Strong CYP3A Inducers

Concomitant use with a strong CYP3A inducer decreased bosutinib C_{max} and AUC compared to BOSULIF alone *[see Clinical Pharmacology (12.3)]* which may reduce BOSULIF efficacy. Avoid the concomitant use of strong CYP3A inducers with BOSULIF.

Proton Pump Inhibitors (PPI)

Concomitant use with a PPI decreased bosutinib C_{max} and AUC compared to BOSULIF alone [see Clinical *Pharmacology (12.3)*] which may reduce BOSULIF efficacy. As an alternative to PPIs, use short-acting antacids or H2 blockers and separate dosing by more than 2 hours from BOSULIF dosing.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Based on findings from animal studies and its mechanism of action, BOSULIF can cause fetal harm when administered to a pregnant woman [see Clinical Pharmacology (12.1)].

There are no available data in pregnant women to inform the drug-associated risk. In animal reproduction studies conducted in rats and rabbits, oral administration of bosutinib during organogenesis caused adverse developmental outcomes, including structural abnormalities, embryo-fetal mortality, and alterations to growth at maternal exposures (AUC) as low as 1.2 times the human exposure at the dose of 500 mg/day (*see Data*). Advise pregnant women of the potential risk to a fetus.

The 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 miscarriage in clinically recognized pregnancies are 2-4% and 15-20%, respectively.

Data

Animal Data

In a rat fertility and early embryonic development study, bosutinib was administered orally to female rats for approximately 3 to 6 weeks, depending on day of mating (2 weeks prior to cohabitation with untreated breeder males until gestation day [GD] 7). Increased embryonic resorptions occurred at greater than or equal to 10 mg/kg/day of bosutinib (1.6 and 1.2 times the human exposure at the recommended doses of 400 or 500 mg/day, respectively), and decreased implantations and reduced number of viable embryos at 30 mg/kg/day of bosutinib (3.4 and 2.5 times the human exposure at the recommended doses of 400 or 500 mg/day, respectively).

In an embryo-fetal development study conducted in rabbits, bosutinib was administered orally to pregnant animals during the period of organogenesis at doses of 3, 10, and 30 mg/kg/day. At the maternally-toxic dose of 30 mg/kg/day of bosutinib, there were fetal anomalies (fused sternebrae, and 2 fetuses had various visceral observations), and an approximate 6% decrease in fetal body weight. The dose of 30 mg/kg/day resulted in exposures (AUC) approximately 5.1 and 3.8 times the human exposures at the recommended doses of 400 and 500 mg/day, respectively.

Fetal exposure to bosutinib-derived radioactivity during pregnancy was demonstrated in a placental-transfer study in pregnant rats. In a rat pre- and postnatal development study, bosutinib was administered orally to pregnant animals during the period of organogenesis through lactation day 20 at doses of 10, 30, and 70 mg/kg/day. Reduced number of pups born occurred at greater than or equal to 30 mg/kg/day bosutinib (3.4 and 2.5 times the human exposure at the recommended doses of 400 or 500 mg/day, respectively), and increased incidence of total litter loss and decreased growth of offspring after birth occurred at 70 mg/kg/day bosutinib (6.9 and 5.1 times the human exposure at the recommended doses of 400 or 500 mg/day, respectively).

8.2 Lactation

Risk Summary

No data are available regarding the presence of bosutinib or its metabolites in human milk or its effects on a breastfed child or on milk production. However, bosutinib is present in the milk of lactating rats. Because of the potential for serious adverse reactions in a nursing child, breastfeeding is not recommended during treatment with BOSULIF and for at least 2 weeks after the last dose.

Animal Data

After a single radiolabeled bosutinib dose to lactating rats, radioactivity was present in the plasma of suckling offspring for 24 to 48 hours.

8.3 Females and Males of Reproductive Potential

Pregnancy

Based on findings from animal studies, BOSULIF can cause fetal harm when administered to a pregnant woman *[see Use in Specific Populations (8.1)]*. Females of reproductive potential should have a pregnancy test prior to starting treatment with BOSULIF.

Contraception

Females

Based on findings from animal studies, BOSULIF can cause fetal harm when administered to a pregnant woman *[see Use in Specific Populations (8.1)]*. Advise females of reproductive potential to use effective contraception (methods that result in less than 1% pregnancy rates) during treatment with BOSULIF and for at least 2 weeks after the last dose.

Infertility

The risk of infertility in females or males of reproductive potential has not been studied in humans. Based on findings from animal studies, BOSULIF may cause reduced fertility in females and males of reproductive potential [see Nonclinical Toxicology (13.1)].

8.4 Pediatric Use

The safety and efficacy of BOSULIF in patients less than 18 years of age have not been established.

8.5 Geriatric Use

In the single-arm study in patients with CML who were resistant or intolerant to prior therapy of BOSULIF in patients with Ph+ CML, 20% were age 65 and over, 4% were 75 and over. No overall differences in safety or effectiveness were observed between these patients and younger patients, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

8.6 Renal Impairment

Reduce the BOSULIF starting dose in patients with moderate (creatinine clearance [CLcr] 30 to 50 mL/min, estimated by Cockcroft-Gault (C-G)) and severe (CL_{cr} less than 30 mL/min, C-G) renal impairment at baseline. For patients who have declining renal function while on BOSULIF who cannot tolerate the starting dose, follow dose adjustment recommendations for toxicity [*see Dosage and Administration (2.3, 2.5) and Clinical Pharmacology (12.3)*]. BOSULIF has not been studied in patients undergoing hemodialysis.

8.7 Hepatic Impairment

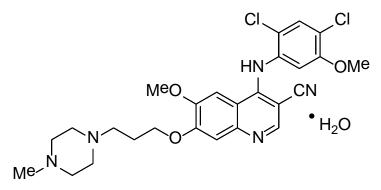
Reduce the BOSULIF dosage in patients with hepatic impairment (Child-Pugh A, B, or C) [see Dosage and Administration (2.3, 2.5) and Clinical Pharmacology (12.3)].

10 OVERDOSAGE

Experience with BOSULIF overdose in clinical studies was limited to isolated cases. There were no reports of any serious adverse events associated with the overdoses. Patients who take an overdose of BOSULIF should be observed and given appropriate supportive treatment.

11 DESCRIPTION

Bosutinib is a kinase inhibitor. The chemical name for bosutinib monohydrate is 3-Quinolinecarbonitrile, 4-[(2,4-dichloro-5-methoxyphenyl)amino]-6-methoxy-7-[3-(4-methyl-1-piperazinyl) propoxy]-, hydrate (1:1). Its chemical formula is $C_{26}H_{29}Cl_2N_5O_3 \cdot H_2O$ (monohydrate); its molecular weight is 548.46 (monohydrate), equivalent to 530.46 (anhydrous). Bosutinib monohydrate has the following chemical structure:



Bosutinib monohydrate is a white to yellowish-tan powder. Bosutinib monohydrate has a pH dependent solubility across the physiological pH range. At or below pH 5, bosutinib monohydrate behaves as a highly soluble compound. Above pH 5, the solubility of bosutinib monohydrate reduces rapidly.

BOSULIF[®] (bosutinib) tablets are supplied for oral administration in 3 strengths: a 100 mg yellow, oval, biconvex, film-coated tablet debossed with "Pfizer" on one side and "100" on the other; a 400 mg orange, oval, biconvex, film-coated tablet debossed with "Pfizer" on one side and "400" on the other; and a 500 mg red, oval, biconvex, film-coated tablet debossed with "Pfizer" on one side and "500" on the other.

Each 100 mg BOSULIF tablet contains 103.40 mg of bosutinib monohydrate, equivalent to 100 mg of bosutinib; each 400 mg BOSULIF tablet contains 413.60 mg of bosutinib monohydrate, equivalent to 400 mg of bosutinib;

each 500 mg BOSULIF tablet contains 516.98 mg of bosutinib monohydrate, equivalent to 500 mg of bosutinib. The following inactive ingredients are included in the tablets: microcrystalline cellulose, croscarmellose sodium, poloxamer, povidone, magnesium stearate, polyvinyl alcohol, titanium dioxide, polyethylene glycol, talc, and iron oxide yellow (for 100 mg, and 400 mg tablet) and iron oxide red (for 400 mg, and 500 mg tablet).

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Bosutinib is a TKI. Bosutinib inhibits the BCR-ABL kinase that promotes CML; it is also an inhibitor of Src-family kinases including Src, Lyn, and Hck. Bosutinib inhibited 16 of 18 imatinib-resistant forms of BCR-ABL kinase expressed in murine myeloid cell lines. Bosutinib did not inhibit the T315I and V299L mutant cells.

12.2 Pharmacodynamics

Based on the exposure response analyses for efficacy, a relationship between drug exposure and a greater likelihood of response was observed in clinical studies. Based on the exposure response analyses for safety, a relationship between drug exposure and a greater likelihood of safety events was observed in clinical studies.

Cardiac Electrophysiology

At a single oral dose of 500 mg BOSULIF with ketoconazole (a strong CYP3A inhibitor), BOSULIF does not prolong the QT interval to any clinically relevant extent.

12.3 Pharmacokinetics

The bosutinib pharmacokinetics following oral dosing was assessed with food, unless otherwise specified.

Bosutinib exhibits dose proportional increases in AUC and C_{max} over the oral dose range of 200 to 800 mg (0.33 to 1.3 times the maximum approved recommended dosage of 600 mg). The mean (standard deviation [SD]) C_{max} was 146 (20) ng/mL and the mean (SD) AUC was 2720 (442) ng•h/mL following multiple oral doses of BOSULIF 400 mg in patients with CML; C_{max} was 200 (12) ng/mL and AUC was 3650 (425) ng•h/mL following multiple oral doses of BOSULIF 500 mg in patients with CML.

Absorption

Following administration of a single oral dose of BOSULIF 500 mg with food in patients with CML, the median (minimum, maximum) time-to-peak concentration (t_{max}) was 6.0 (6.0, 6.0) hours. The absolute bioavailability was 34% in healthy subjects.

Effect of Food

When given with a high fat meal in healthy subjects, oral bosutinib C_{max} increased 1.8-fold and AUC increased 1.7-fold. The high-fat meal (800-1000 total calories) consisted of approximately 150 protein calories, 250 carbohydrate calories, and 500-600 fat calories.

Distribution

Following a single intravenous dose of bosutinib 120 mg (0.2 times the maximum approved recommended oral dosage of 600 mg) in healthy subjects, bosutinib had a mean (SD) volume of distribution of 2441 (796) L. The mean (SD) apparent volume of distribution after an oral dose of 500 mg of BOSULIF to patients with CML was 6080 (1230) L. Protein binding of bosutinib is 94% *in vitro* and 96% *ex vivo*, and is independent of concentration.

Elimination

Following a single intravenous dose of bosutinib 120 mg (0.2 times the maximum approved recommended oral dosage of 600 mg), the mean (SD) terminal phase elimination half-life ($t_{\frac{1}{2}}$) was 35.5 (8.5) hours, and the mean (SD) clearance (Cl) was 63.6 (14.1) L/h. Following a single oral dose of BOSULIF in patients with CML, the mean (SD) $t_{\frac{1}{2}}$ was 22.5 (1.7) hours, and the mean (SD) Cl was 189 (48) L/h.

Metabolism

Bosutinib is primarily metabolized by CYP3A4.

Excretion

Following a single oral dose of $[^{14}C]$ radiolabeled bosutinib without food, 91.3% of the dose was recovered in feces and 3.3% of the dose recovered in urine.

Specific Populations

Patients with Renal Impairment

Following a single oral dose of BOSULIF 200 mg (0.33 times the maximum approved recommended dosage of 600 mg), bosutinib AUC increased 1.4-fold in subjects with moderate renal impairment (CL_{cr} : 30 to 50 mL/min, estimated by Cockcroft-Gault (C-G)) and increased 1.6-fold in subjects with severe renal impairment (CL_{cr} : less than 30 mL/min) compared to subjects with normal renal function (CLcr > 80 mL/min, C-G). No clinically significant difference in the pharmacokinetics of bosutinib was observed in subjects with mild renal impairment (CL_{cr} : 51 to 80 mL/min, C-G).

Patients with Hepatic Impairment

Following a single oral dose of BOSULIF 200 mg (0.33 times the maximum approved recommended dosage of 600 mg), bosutinib C_{max} increased 2.4-fold, 2-fold, and 1.5-fold, and AUC increased 2.3-fold, 2-fold, and 1.9-fold in hepatic impairment Child-Pugh A, B, and C, respectively.

Drug Interaction Studies

Clinical Studies

The following interactions were evaluated in crossover studies of healthy subjects, unless otherwise specified.

Strong and Moderate CYP3A Inhibitors

A single oral dose of BOSULIF 100 mg (0.17 times the maximum approved recommended dosage) was administered alone or following multiple daily doses of 400 mg ketoconazole (a strong CYP3A inhibitor) without food. Ketoconazole increased bosutinib C_{max} and AUC 5.2-fold and 8.6-fold, respectively.

A single oral dose of BOSULIF 500 mg was administered alone or in combination with 125 mg aprepitant (a moderate CYP3A inhibitor) with food. Aprepitant increased bosutinib C_{max} 1.5-fold and AUC 2.0-fold.

Strong CYP3A Inducers

A single dose of BOSULIF 500 mg was administered alone or following multiple daily doses of 600 mg rifampin with food. Rifampin decreased bosutinib C_{max} by 86% and AUC by 94%.

Proton Pump Inhibitors

BOSULIF displays pH-dependent aqueous solubility, *in vitro*. A single oral dose of BOSULIF 400 mg was administered alone or following multiple oral doses of lansoprazole 60 mg without food. Lansoprazole decreased bosutinib C_{max} by 46% and AUC by 26%.

<u>P-gp Substrates</u>

A single oral dose of 500 mg BOSULIF was administered in combination with a single oral dose of 150 mg dabigatran etexilate mesylate (a P-glycoprotein (P-gp) substrate). No clinically significant difference in the pharmacokinetics of dabigatran was observed following bosutinib administration.

In Vitro Studies

Bosutinib Effect on Transporters

Bosutinib may have the potential to inhibit breast cancer resistance protein (BCRP) in the gastrointestinal tract but has a low potential to inhibit BCRP, systemically, or organic anion transporting polypeptide (OATP)1B1, OATP1B3, organic anion transporter (OAT)1, OAT3, organic cation transporter (OCT)1, and OCT2 at clinically relevant concentrations.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

A 2-year carcinogenicity study was conducted orally in rats at bosutinib doses up to 25 mg/kg/day in males and 15 mg/kg/day in females. The exposures achieved at the high dose were approximately 1.8 times (males) and 3.8 times (females) the human exposure at the recommended dose of 400 mg, and 1.4 times (males) and 2.8 times (females) the human exposure at the recommended dose of 500 mg. The study was negative for carcinogenic findings.

Bosutinib was not mutagenic or clastogenic in a battery of tests, including the bacteria reverse mutation assay (Ames Test), the *in vitro* assay using human peripheral blood lymphocytes and the micronucleus test in orally treated male mice.

In a rat fertility study, drug-treated males were mated with untreated females, or untreated males were mated with drug-treated females. Females were administered the drug from pre-mating through early embryonic development. The dose of 70 mg/kg/day of bosutinib resulted in reduced fertility in males as demonstrated by 16% reduction in the number of pregnancies. There were no lesions in the male reproductive organs at this dose. This dose of 70 mg/kg/day resulted in exposure (AUC) in male rats approximately 1.5 times and equal to the human exposure at the recommended doses of 400 and 500 mg/day, respectively. Fertility (number of pregnancies) was not affected when female rats were treated with bosutinib. However, there were increased embryonic resorptions at greater than or equal to 10 mg/kg/day of bosutinib (1.6 and 1.2 times the human exposure at the recommended doses of 400 and 500 mg/day, respectively), and decreased implantations and reduced number of viable embryos at 30 mg/kg/day of bosutinib (3.4 and 2.5 times the human exposure at the recommended doses of 400 or 500 mg/day, respectively).

14 CLINICAL STUDIES

14.1 Newly-Diagnosed CP Ph+ CML

The efficacy of BOSULIF in patients with newly-diagnosed chronic phase Ph+ CML was evaluated in the <u>B</u>osutinib trial in <u>F</u>irst-line chr<u>O</u>nic myelogenous leukemia t<u>RE</u>atment (BFORE) Trial: "A Multicenter Phase 3, Open-Label Study of Bosutinib Versus Imatinib in Adult Patients With Newly Diagnosed Chronic Phase Chronic Myelogenous Leukemia" [NCT02130557].

The BFORE Trial is a 2-arm, open-label, randomized, multicenter trial conducted to investigate the efficacy and safety of BOSULIF 400 mg once daily alone compared with imatinib 400 mg once daily alone in adult patients with

newly-diagnosed CP Ph+ CML. The trial randomized 536 patients (268 in each arm) with Ph+ or Ph- newly-diagnosed CP CML (intent-to-treat [ITT] population) including 487 patients with Ph+ CML harboring b2a2 and/or b3a2 transcripts at baseline and baseline BCR-ABL copies >0 (modified intent-to-treat [mITT] population). Randomization was stratified by Sokal score and geographical region. All patients are being treated and/or followed for up to 5 years. Efficacy was evaluated in the mITT population. The major efficacy outcome measure was MMR at 12 months defined as $\leq 0.1\%$ BCR-ABL ratio on international scale (corresponding to ≥ 3 log reduction from standardized baseline) with a minimum of 3000 ABL transcripts as assessed by the central laboratory. Additional efficacy outcomes included CCyR by 12 months, defined as the absence of Ph+ metaphases in chromosome banding analysis of ≥ 20 metaphases derived from bone marrow aspirate or MMR if an adequate cytogenetic assessment was unavailable.

In the mITT population in this study, 57% of patients were males, 77% were Caucasian, and 19% were 65 years or older. The median age was 53 years. After a minimum of 12 months of follow-up, 77.6% of the 246 bosutinib-treated patients and 72.4% of the 239 imatinib-treated patients were still receiving treatment. The median treatment duration was 14.3 months for BOSULIF and 13.8 months for imatinib.

The efficacy results from the BFORE trial are summarized in Table 8.

Table 8:

Summary of Major Molecular Response (MMR) at Month 12 and Complete Cytogenetic Response (CCyR) by Month 12, by Treatment Group in the Modified Intent-to-Treat (mITT) Population

Response	Bosutinib N=246 n (%)	Imatinib N=241 n (%)	2-sided p-value
Major Molecular Response at			
Month 12			
MMR	116 (47.2)	89 (36.9)	0.0200^{*}
(95% CI)	(40.9, 53.4)	(30.8, 43.0)	
Complete Cytogenetic Response by			
Month 12			
CCyR	190 (77.2)	160 (66.4)	0.0075^{*}
(95% CI)	(72.0, 82.5)	(60.4, 72.4)	

Abbreviations: CCyR=complete cytogenetic response; CI=confidence interval; CMH=Cochran-Mantel-Haenszel; MMR=major molecular response; N/n=number of patients.

^{*} derived from CMH test stratified by Geographical region and Sokal score at randomization.

The MMR rate at Month 12 for all randomized patients (ITT population) was consistent with the mITT population (46.6% [95% CI: 40.7, 52.6] in the bosutinib treatment group and 36.2% [95% CI: 30.4, 41.9] in the imatinib treatment group; odds ratio of 1.57 [95% CI: 1.10, 2.22]). After a minimum of 12 months of follow-up, 5 bosutinib patients and 7 imatinib patients transformed to AP CML or BP CML while on treatment.

14.2 Imatinib-Resistant or -Intolerant Ph+ CP, AP, and BP CML

Study 200 (NCT00261846), a single-arm, open-label, multicenter study in patients with CML who were resistant or intolerant to prior therapy was conducted to evaluate the efficacy and safety of BOSULIF 500 mg once daily in patients with imatinib-resistant or -intolerant CML with separate cohorts for CP, AP, and BP disease previously treated with 1 prior TKI (imatinib) or more than 1 TKI (imatinib followed by dasatinib and/or nilotinib). The definition of imatinib resistance included (1) failure to achieve or maintain any hematologic improvement within 4 weeks; (2) failure to achieve a CHR by 3 months, cytogenetic response by 6 months or major cytogenetic response (MCyR) by 12 months; (3) progression of disease after a previous cytogenetic or hematologic response; or (4) presence of a genetic mutation in the BCR-ABL gene associated with imatinib resistance. Imatinib intolerance was defined as inability to tolerate imatinib due to toxicity, or progression on imatinib and inability to receive a higher dose due to toxicity. The definitions of resistance and intolerance to both dasatinib and nilotinib were similar to those for imatinib. The protocol was amended to exclude patients with a known history of the T315I mutation after 396 patients were enrolled in the trial.

The efficacy endpoints for patients with CP CML previously treated with 1 prior TKI (imatinib) were the rate of attaining MCyR by Week 24 and the duration of MCyR. The efficacy endpoints for patients with CP CML previously treated with both imatinib and at least 1 additional TKI were the cumulative rate of attaining MCyR by Week 24 and the

duration of MCyR. The efficacy endpoints for patients with previously treated AP and BP CML were confirmed CHR and overall hematologic response (OHR).

The study enrolled 546 patients with CP, AP or BP CML. Of the total patient population 73% were imatinib resistant and 27% were imatinib intolerant. In this trial, 53% of patients were males, 65% were Caucasian, and 20% were 65 years old or older. Of the 546 treated patients, 506 were considered evaluable for cytogenetic or hematologic efficacy assessment. Patients were evaluable for efficacy if they had received at least 1 dose of BOSULIF and had a valid baseline efficacy assessment. Among evaluable patients, there were 262 patients with CP CML previously treated with 1 prior TKI (imatinib), 112 patients with CP CML previously treated with both imatinib and at least 1 additional TKI, and 132 patients with advanced phase CML previously treated with at least 1 TKI.

Median duration of BOSULIF treatment was 26 months in patients with CP CML previously treated with 1 TKI (imatinib), 9 months in patients with CP CML previously treated with imatinib and at least 1 additional TKI, 10 months in patients with AP CML previously treated with at least imatinib, and 3 months in patients with BP CML previously treated with at least imatinib.

The 24 week efficacy and MCyR at any time results are summarized in Table 9.

 Table 9:

 Efficacy Results in Patients with Ph+ CP CML With Resistance to or Intolerance to Imatinib

Prior Treatment With Imatinib Only (N=262 evaluable) n (%)		Prior Treatment With Imatinib and Dasatinib or Nilotinib (N=112 evaluable) n (%)	
By Week 24			
MCyR	105 (40.1)	29 (25.9)	
(95% CI)	(34.1, 46.3)	(18.1, 35.0)	
MCyR any time	156 (59.5)	45 (40.2)	
	(53.3, 65.5)	(31.0, 49.9)	

Abbreviations: CI=confidence interval; CML=chronic myelogenous leukemia; CP=chronic phase; MCyR=major cytogenetic response; N/n=number of patients; Ph+=Philadelphia chromosome positive.

The long term follow-up data analysis was based on a minimum of 60 months for patients with CP CML treated with 1 prior TKI (imatinib) and a minimum of 48 months for patients with CP CML treated with imatinib and at least 1 additional TKI. For the 59.5% of patients with CP CML treated with 1 prior TKI (imatinib) who achieved a MCyR at any time, the median duration of MCyR was not reached. Among these patients, 65.4% and 42.9% had a MCyR lasting at least 18 and 54 months, respectively. For the 40.2% of patients with CP CML treated with imatinib and at least 1 additional TKI who achieved a MCyR at any time, the median duration of MCyR was not reached. Among these patients, 64.4% and 35.6% had a MCyR lasting at least 9 and 42 months, respectively. Of the 403 treated patients with CP CML, 20 patients had confirmed disease transformation to AP or BP while on treatment with BOSULIF.

The 48 week efficacy results in patients with accelerated and blast phases CML previously treated with at least imatinib are summarized in Table 10.

Table 10:

Efficacy Results in Patients With Accelerated Phase and Blast Phase CML Previously Treated With at Least Imatinib

	AP CML (N=72 evaluable) n (%)	BP CML (N=60 evaluable) n (%)	
CHR ^a by Week 48	22 (30.6)	10 (16.7)	
(95% CI)	(20.2, 42.5)	(8.3, 28.5)	
OHR ^a by Week 48	41 (56.9)	17 (28.3)	
(95% CI)	(44.7, 68.6)	(17.5, 41.4)	

Abbreviations: AP=accelerated phase; BP=blast phase; CHR=complete hematologic response; CI=confidence interval; CML=chronic myelogenous leukemia; CI=confidence interval, OHR=overall hematologic response, CHR=complete hematologic response, N/n=number of patients

^{a.} Overall hematologic response (OHR) = major hematologic response (complete hematologic response + no evidence of leukemia) or return to chronic phase (RCP). All responses were confirmed after 4 weeks. Complete hematologic response (CHR) for AP and BP CML: WBC less than or equal to institutional ULN, platelets greater than or equal to $100,000/\text{mm}^3$ and less than 450,000/mm³, absolute neutrophil count (ANC) greater than or equal to 1.0×10^9 /L, no blasts or promyelocytes in peripheral blood, less than 5% myelocytes + metamyelocytes in bone marrow, less than 20% basophils in peripheral blood, and no extramedullary involvement. No evidence of leukemia (NEL): Meets all other criteria for CHR except may have thrombocytopenia (platelets greater than or equal to $20,000/\text{mm}^3$ and less than $100,000/\text{mm}^3$) and/or neutropenia (ANC greater than or equal to 0.5×10^9 /L and less than 1.0×10^9 /L). Return to chronic phase (RCP) = disappearance of features defining accelerated or blast phases but still in chronic phase.

The long term follow-up data analysis was based on a minimum of 48 months for patients with AP CML and BP CML. Of the 79 treated patients with AP CML, 3 patients had confirmed disease transformation to BP while on BOSULIF treatment.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

BOSULIF (bosutinib) tablets are supplied for oral administration in 3 strengths: a 100 mg yellow, oval, biconvex, film-coated tablet debossed with "Pfizer" on one side and "100" on the other; a 400 mg orange, oval, biconvex, film coated tablet debossed with "Pfizer" on one side and "400" on the other; and a 500 mg red, oval, biconvex, film-coated tablet debossed with "Pfizer" on one side and "500" on the other. BOSULIF (bosutinib) tablets are available in the following packaging configurations (Table 11):

Table 11:Tablet Presentations

BOSULIF Tablets				
Package Configuration	Tablet Strength (mg)	NDC	Tablet Description	
120 tablets per bottle	100 mg	0069-0135-01	Yellow, oval, biconvex, film-coated tablets, debossed "Pfizer" on one side and "100" on the other.	
30 tablets per bottle	400 mg	0069-0193-01	Orange, oval, biconvex, film-coated tablet debossed with "Pfizer" on one side and "400" on the other.	
30 tablets per bottle	500 mg	0069-0136-01	Red, oval, biconvex, film-coated tablets, debossed "Pfizer" on one side and "500" on the other.	

Abbreviation: NDC=National drug code.

16.2 Storage

Store at 20°C to 25°C (68°F to 77°F); excursions permitted to 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].

16.3 Handling and Disposal

Procedures for proper disposal of anticancer drugs should be considered. Touching or handling crushed or broken tablets is to be avoided. Any unused product or waste material should be disposed of in accordance with local requirements, or drug take back programs.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

• Dosage and Administration

Instruct patients to take BOSULIF exactly as prescribed, not to change their dose or to stop taking BOSULIF unless they are told to do so by their doctor. If patients miss a dose beyond 12 hours, they should be advised to take the next scheduled dose at its regular time. A double dose should not be taken to make up for any missed dose. Advise patients to take BOSULIF with food. Patients should be advised: "Do not crush, break, or cut tablet. Do not touch or handle crushed or broken tablets."

• Gastrointestinal Toxicity

Advise patients that they may experience diarrhea, nausea, vomiting, abdominal pain, or blood in their stools with BOSULIF and to seek medical attention promptly for these symptoms [see Warnings and Precautions (5.1)].

• Myelosuppression

Advise patients of the possibility of developing low blood cell counts and to immediately report fever, any suggestion of infection, or signs or symptoms suggestive of bleeding or easy bruising [see Warnings and Precautions (5.2)].

Hepatic Toxicity

Advise patients of the possibility of developing liver function abnormalities and to immediately report jaundice [see Warnings and Precautions (5.3)].

• Cardiac Failure

Advise patients that cardiac failure and left ventricular dysfunction have been reported. Advise patients to seek immediate medical attention if any symptoms suggestive of cardiac failure occur, such as shortness of breath, weight gain, or fluid retention [see Warnings and Precautions (5.4)].

• Fluid Retention

Advise patients of the possibility of developing fluid retention (swelling, weight gain, or shortness of breath) and to seek medical attention promptly if these symptoms arise [see Warnings and Precautions (5.5)].

• Renal Toxicity

Advise patients of the possibility of developing renal problems and to immediately report frequent urination, polyuria or oliguria [see Warnings and Precautions (5.6)].

• Adverse Reactions

Advise patients that they may experience other adverse reactions such as respiratory tract infections, rash, fatigue, loss of appetite, headache, dizziness, back pain, arthralgia, or pruritus with BOSULIF and to seek medical attention if symptoms are significant. There is a possibility of anaphylactic shock [see Contraindications (4) and Adverse Reactions (6)].

• Embryo-Fetal Toxicity

Advise females to inform their healthcare provider if they are pregnant or become pregnant. Inform female patients of the risk to a fetus and potential loss of the pregnancy [see Use in Specific Populations (8.1)].

Advise females of reproductive potential, to use effective contraception during treatment and for at least 2 weeks after receiving the last dose of BOSULIF [see Warnings and Precautions (5.7) and Use in Specific Populations (8.1, 8.3)].

Advise lactating women not to breastfeed during treatment with BOSULIF and for at least 2 weeks after the last dose [see Use in Specific Populations (8.2)].

• Drug Interactions

Advise patients that BOSULIF and certain other medicines, including over the counter medications or herbal supplements (such as St. John's wort) can interact with each other and may alter the effects of BOSULIF [see Drug Interactions (7)].

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LAB-0443-13.1

PATIENT INFORMATION BOSULIF[®] (BAH-su-lif) (bosutinib) tablets

What is BOSULIF?

BOSULIF is a prescription medicine used to treat adults who have a certain type of leukemia called Philadelphia chromosome-positive chronic myelogenous leukemia (Ph+ CML) who are newly-diagnosed or who no longer benefit from or did not tolerate other treatment.

It is not known if BOSULIF is safe and effective in children less than 18 years of age.

Do not take BOSULIF if you are allergic to bosutinib or any of the ingredients in BOSULIF. See the end of this leaflet for a complete list of ingredients of BOSULIF.

Before taking BOSULIF, tell your doctor about all of your medical conditions, including if you:

- have liver problems
- have heart problems
- have kidney problems
- are pregnant or plan to become pregnant. BOSULIF can harm your unborn baby. Females who are able to become pregnant should have a pregnancy test before starting treatment with BOSULIF. Tell your doctor right away if you become pregnant during treatment with BOSULIF.
 - Females who are able to become pregnant should use effective birth control (contraception) during treatment with BOSULIF and for at least 2 weeks after the last dose. Talk to your doctor about birth control methods that may be right for you.
- are breastfeeding or plan to breastfeed. It is not known if BOSULIF passes into your breast milk or if it can harm your baby. Do not breastfeed during treatment with BOSULIF and for at least 2 weeks after the last dose.

Tell your doctor about all the medicines you take, including prescription medicines, over-the-counter medicines, vitamins, and herbal supplements. When taken together, BOSULIF and certain other medicines can affect each other.

Know the medicines you take. Keep a list of your medicines and show it to your doctor and pharmacist when you get a new medicine.

How should I take BOSULIF?

- Take BOSULIF exactly as prescribed by your doctor.
- Do not change your dose or stop taking BOSULIF without first talking with your doctor.
- Take BOSULIF with food.
- Swallow BOSULIF tablets whole. Do not crush, break, or cut BOSULIF tablets. Do not touch or handle crushed or broken BOSULIF tablets.
- If you take an antacid or H₂ blocker medicine, take it at least 2 hours before or 2 hours after BOSULIF. If you take a
 Proton Pump Inhibitor (PPI) medicine, talk to your doctor or pharmacist.
- You should avoid grapefruit, grapefruit juice, and supplements that contain grapefruit extract during treatment with BOSULIF. Grapefruit products increase the amount of BOSULIF in your body.
- If you miss a dose of BOSULIF, take it as soon as you remember. If you miss a dose by more than 12 hours, skip that dose and take your next dose at your regular time. Do not take 2 doses at the same time.
- If you take too much BOSULIF, call your doctor or go to the nearest hospital emergency room right away.

What are the possible side effects of BOSULIF?

BOSULIF may cause serious side effects, including:

- Stomach problems. BOSULIF may cause stomach (abdomen) pain, nausea, diarrhea, vomiting, or blood in your . stools. Get medical help right away for any stomach problems.
- Low blood cell counts. BOSULIF may cause low platelet counts (thrombocytopenia), low red blood cell counts • (anemia) and low white blood cell counts (neutropenia). Your doctor should do blood tests to check your blood cell counts regularly during your treatment with BOSULIF. Call your doctor right away if you have unexpected bleeding or bruising, blood in your urine or stools, fever, or any signs of an infection.
- Liver problems. BOSULIF may cause liver problems. Your doctor should do blood tests to check your liver function • regularly during your treatment with BOSULIF. Call your doctor right away if your skin or the white part of your eves turns yellow (jaundice) or you have dark "tea color" urine.
- Heart problems. BOSULIF may cause heart problems, including heart failure. Get medical help right away if you get • shortness of breath, weight gain or swelling in your hands, ankles or feet.
- Your body may hold too much fluid (fluid retention). Fluid may build up in the lining of your lungs, the sac around • your heart, or your stomach cavity. Get medical help right away if you get any of the following symptoms during your treatment with BOSULIF:
 - shortness of breath and cough 0

swelling all over your body 0

chest pain 0

- weight gain 0
- swelling in your hands, ankles, or feet 0
- Kidney problems. BOSULIF may cause kidney problems. Your doctor should do tests to check your kidney function • when you start treatment with BOSULIF and during your treatment. Call your doctor right away if you get any of the following symptoms during your treatment with BOSULIF:
 - 0 vou urinate more often than normal
 - 0 you urinate less often than normal
 - you make a much larger amount of urine than normal 0
 - 0 you make a much smaller amount of urine than normal

The most common side effects of BOSULIF in people with newly-diagnosed CML include:

- diarrhea .
- nausea
- low platelet counts

- rash
- changes in liver function test
- stomach (abdomen) pain

The most common side effects of BOSULIF in people with CML who no longer benefit from or did not tolerate other treatment include:

- diarrhea
- nausea
- stomach (abdomen) pain
- rash
- low platelet counts
- vomiting •
- low red blood cell counts

- tiredness
- fever
- cough
- headache
- change in liver function test
- swelling

Tell your doctor or get medical help right away if you get respiratory tract infections, loss of appetite, headache, dizziness, back pain, joint pain, or itching while taking BOSULIF. These may be symptoms of a severe allergic reaction.

Your doctor may change your dose, temporarily stop, or permanently stop treatment with BOSULIF if you have certain side effects.

BOSULIF may cause fertility problems in females and males. This may affect your ability to have a child. Talk to your doctor if this is a concern for you.

Tell your doctor 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 BOSULIF. For more information, ask your doctor 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 BOSULIF?

- Store BOSULIF between 68°F to 77°F (20°C to 25°C).
- Ask your doctor or pharmacist about the right way to throw away outdated or unused BOSULIF.

Keep BOSULIF and all medicines out of the reach of children.

General information about the safe and effective use of BOSULIF.

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use BOSULIF for a condition for which it is not prescribed. Do not give BOSULIF to other people even if they have the same symptoms you have. It may harm them. You can ask your doctor or pharmacist for information about BOSULIF that is written for health professionals.

What are the ingredients in BOSULIF?

Active ingredient: bosutinib.

Inactive ingredients: microcrystalline cellulose, croscarmellose sodium, poloxamer, povidone, magnesium stearate, polyvinyl alcohol, titanium dioxide, polyethylene glycol, talc, and iron oxide yellow (for 100 mg and 400 mg tablets) and iron oxide red (for 400 mg and 500 mg tablets).

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LAB-0639-10.0

For more information, go to www.Bosulif.com or www.pfizermedicalinformation.com or call 1-800-438-1985.

This Patient Information has been approved by the U.S. Food and Drug Administration.

Revised: October 2019