

bosutinib (Bosulif®) EOCCO POLICY



Policy Type: PA/SP Pharmacy Coverage Policy: EOCCO116

Description

Bosutinib (Bosulif) is a tyrosine kinase inhibitor that inhibits the Bcr-Abl kinase which promotes chronic myelogenous leukemia (CML). It is also known to inhibit Src-family kinases including Src, Lyn, and Hck.

Length of Authorization

Initial: Three monthsRenewal: 12 months

Quantity Limits

Product Name	Dosage Form	Indication	Quantity Limit	
bosutinib (Bosulif)	100 mg tablets	CML, newly diagnosed	90 tablets/30 days	
	400 mg tablets	chronic phase	30 tablets/30 days	
	500 mg tablets	CML, resistant or intolerant	30 tablets/30 days	
		to prior therapy		

Initial Evaluation

- I. Bosutinib (Bosulif) may be considered medically necessary when the following criteria below are met:
 - A. Medication is prescribed by, or in consultation with, an oncologist or hematologist; AND
 - B. Medication will <u>not</u> be used in combination with other oncologic medications (i.e., will be used as monotherapy); **AND**
 - C. A diagnosis of chronic myelogenous leukemia (CML) when the following are met:
 - 1. Newly diagnosed chronic phase Philadelphia chromosome-positive (Ph+) CML; OR
 - 2. Chronic, accelerated, or blast phase Ph+ CML; AND
 - i. Resistant or intolerant to prior treatment with a tyrosine kinase inhibitor [e.g. imatinib (Gleevec), dasatinib (Sprycel), nilotinib (Tasigna)]
- II. Bosutinib (Bosulif) is considered <u>investigational</u> when used for all other conditions, including but not limited to:
 - A. Glioblastoma
 - B. Dementia
 - C. Non-small cell lung cancer
 - D. Mesothelioma
 - E. Bladder cancer
 - F. Ovarian, peritoneal, uterine cervical cancer
 - G. Thymoma
 - H. Thymus cancer



Renewal Evaluation

- Member has received a previous prior authorization approval for this agent through this health plan; AND
- II. Member is not continuing therapy based off being established on therapy through samples, manufacturer coupons, or otherwise. Initial policy criteria must be met for the member to qualify for renewal evaluation through this health plan; AND
- III. The medication is prescribed by, or in consultation with, an oncologist; AND
- IV. Medication will <u>not</u> be used in combination with other oncologic medications (i.e., will be used as monotherapy); **AND**
- V. Documentation of response to treatment, defined by the stabilization of disease or a decrease in tumor size or tumor spread.

Supporting Evidence

- Bosutinib (Bosulif) is indicated for the treatment of adult patients with chronic, accelerated, or blast phase Ph+ CML with resistance or intolerance to prior therapy OR newly diagnosed chronic phase Ph+ CML.
- II. Prior therapy may include, but is not limited to, one of the following: imatinib (Gleevec), dasatinib (Sprycel), and/or nilotinib (Tasigna).
- III. All TKIs are all highly effective with no differences in overall survival between imatinib and the second generation TKI therapies bosutinib, dasatinib, or imatinib.
- IV. Members with primary treatment resistance to imatinib can be treated with any second generation TKI therapy (bosutinib, dasatinib, or nilotinib), while giving consideration to BCR-ABL1 mutation status. The second-generation TKI therapies are active against many mutations resistant to imatinib.
- V. Members with primary treatment resistance to bosutinib, dasatinib, or nilotinib may be treated with any alternate TKI <u>other than</u> imatinib and giving consideration for BCR-ABL Mutation status
- VI. Treatment recommendations from NCCN Guidelines Version 02.2020 CML

THERAPY	CONTRAINDICATED MUTATIONS	
Bosutinib	T315I, V299L, G250E, or F317L	
Dasatinib	T315I/A, F317L/V/I/C or V299L	
Nilotinib	T315I, Y253H, E255K/V, or F359V/C/I or	
	G250E	

- VII. Intolerance is defined as progression while taking a TKI, and/or the inability to tolerate the current minimum recommended dose, or inability to dose-increase due to toxicity. Resistance and intolerance to both dasatinib (Sprycel) and nilotinib (Tasigna) are manifested similarly to that of imatinib (Gleevec).
- VIII. Disease progression is defined as transformation to accelerated or blast phase, or loss of previously attained response. Treatment was continued until disease progression (transformation to accelerated or blast phase, or loss of previously attained response), unacceptable toxicity, or withdrawal of consent. Patients were removed from the study if they were unable to tolerate a bosutinib (Bosulif) dose of ≥ 300 mg/d.



Investigational or Not Medically Necessary Uses

- I. There is limited to no evidence to support the use of bosutinib (Bosulif) in any other condition.
- II. Glioblastoma
 - A. Bosutinib (Bosulif) was evaluated in small phase 2 study in adults with recurrent glioblastoma, however the study met pre-specified criteria for early closure due to progression. Bosutinib (Bosulif) monotherapy does not appear to be effective in recurrent glioblastoma.

References

- 1. Bosulif [Prescribing Information]. New York, NY. Pfizer labs: October 2019.
- 2. Facts & Comparisons [Internet database]. Wolters Kluwer Health, Inc. [Cited 2012 September 27]. Available with subscription at: http://online.factsandcomparisons.com
- 3. Cortes JE, Kantarjian HM, Brümmendorf TH, et al. Safety and efficacy of bosutinib (SKI-606) in chronic phase Philadelphia chromosome-positive chronic myeloid leukemia patients with resistance or intolerance to imatinib. Blood. 2011;118(17):4567-76.
- 4. Taylor JW, Dietrich J, Gerstner ER, et al. Phase 2 study of bosutinib, a Src inhibitor, in adults with recurrent glioblastoma. J Neurooncol. 2015;121(3):557-63.
- 5. National Comprehensive Cancer Network (NCCN); Clinical Practice Guidelines in Oncology: Chronic Myelogenous Leukemia v.2.2020. Available at: https://www.nccn.org/professionals/physician_gls/pdf/cml.pdf.

Policy Implementation/Update:

Date Created	February 2013
Date Effective	February 2013
Last Updated	December 2019
Last Reviewed	01/2018, 12/2018

Action and Summary of Changes	Date
Prior authorization criteria transitioned to policy format. Updated requirement of prior therapy to state prior tyrosine kinase inhibitor rather than stating imatinib. Extended renewal duration from four months to 12 months. Required agent be used as monotherapy and not in combination with other oncologic medications.	