ORAL ADULT Updated: October 9, 2020

Regimen Reference Order – LEUK – bosutinib

ARIA: LEUK - [bosutinib]

Planned Course: Once daily until disease progression or unacceptable toxicity (1 cycle = 30 days)

Indication for Use: Chronic Myelogenous Leukemia

Proceed with treatment if:

Blood work at provider's discretion: not required to proceed with treatment

SEQUENCE OF MEDICATION ADMINISTRATION

	Pre-treatment Requirements					
ı	Drug	Dose	CCMB Administration Guideline			
	allopurinol*	300 mg	Orally once daily for 10 days to begin 3 days prior to start of bosutinib and at provider's discretion for additional length of time			
ı			(Self-administered at home)			
			* Only patients at risk of tumor lysis syndrome will be prescribed allopurinol			

Treatment Regimen – LEUK - bosutinib				
Drug	Dose	CCMB Administration Guideline		
bosutinib	500 mg	Orally once daily with food		
		Swallow whole		
		(Self-administered at home)		
(Self-administered at home) bosutinib (Bosulif®) available dosage strengths: 100 mg and 500 mg tablets Classification: Cytotoxic, Hazardous				

REQUIRED MONITORING

Baseline

- CBC, serum creatinine, urea, liver enzymes, electrolytes and lipase as per Physician Orders
- Patient weight
- Hepatitis B Antigen and hepatitis B core Antibody (if not done previously) as reactivation of hepatitis B virus (HBV)
 has occurred in patients who are chronic carriers
- RT-Q-PCR for BCR-ABL

EKG

- · At baseline, and
- Repeat as clinically indicated during therapy



ADULT LEUK - bosutinib

Month 1

- Week 1: CBC, serum creatinine, urea, liver enzymes, electrolytes and lipase
- Weeks 2 to 4: CBC, serum creatinine, urea, liver enzymes and electrolytes as per Physician Orders
- Patient weight at each clinic visit (monitor for fluid retention)

Months 2 and 3

- CBC, serum creatinine, urea, liver enzymes, electrolytes and lipase once a month as per Physician Orders
- Patient weight at each clinic visit (monitor for fluid retention)

Month 4 and Onwards

- CBC, serum creatinine, urea, liver enzymes, electrolytes and lipase as per Physician Orders (frequency to be determined by hematologist)
- Patient weight at each clinic visit (monitor for fluid retention)

	Recommended Support Medications				
D	rug	Dose	CCMB Administration Guideline		
loperamid	e 2	2 – 4 mg	Orally as directed below		

INSTRUCTIONS FOR PATIENT

- Patients should be encouraged to maintain adequate hydration
- · Instruct patient to report skin rash
- Patients should notify clinic prior to starting any new medication. bosutinib has potential for drug-drug interactions
- Long term suppression of gastric acid with H2 Receptor Antagonists or proton pump inhibitors (PPIs) may reduce systemic exposure to bosutinib
- · Avoid grapefruit and grapefruit juice, Seville oranges (i.e. orange marmalade), pomegranate and starfruit
- Patients should be instructed to purchase loperamide at their retail pharmacy
- Mild to moderate diarrhea (less than 4 loose stools per day):
 - Patients should take loperamide 4 mg (two 2 mg tablets) orally immediately if they have loose bowel movement and then take 2 mg (one 2 mg tablet) after each liquid bowel movement
 - o Patients should not exceed a maximum of 8 tablets in a 24-hour period
 - o Patient should contact their cancer team if more than 3 loose bowel movements in a 24-hour period
- Moderate diarrhea (4 to 6 loose stools per day or night-time diarrhea):
 - o Take loperamide 4 mg (two 2 mg tablets) orally immediately; then
 - o During the day: take 2 mg (one 2 mg tablet) orally every 2 hours
 - o During the night: Take 4 mg (two 2 mg tablets) orally at bedtime and then every 4 hours until morning
 - o STOP loperamide once no bowel movement has occurred (i.e. diarrhea-free) for 12 hours
 - o If diarrhea has not stopped despite taking 12 tablets (24 mg) of loperamide over a 24-hour period, please contact your clinic for further instructions. If this occurs after clinic hours, please call the Medical Oncologist on-call and/or report to the nearest emergency room/urgent care centre. Please note that 24 mg per 24 hours is higher than the usual "over the counter" dose for loperamide
- Reinforce applicable safe handling precautions of medications, blood and body fluids while on bosutinib

ADDITIONAL INFORMATION

- · QT prolongation has been associated with bosutinib
- bosutinib has been associated with fluid retention, including pleural effusion, pulmonary edema and pericardial effusion
- bosutinib has been associated with hepatic toxicity, cardiac toxicity and hemorrhage

