

Regimen Reference Order – BRST – zoledronic acid (Metastatic)

Planned Course: Every 12 weeks until disease progression or unacceptable toxicity OR
Every 4 weeks for 12 doses, then every 12 weeks
Dosing schedule at physician's discretion

Indication for Use: Bone Metastases Breast Cancer Metastatic

CVAD: At Provider's Discretion

Proceed with treatment if:

Creatinine clearance equal to or greater than 30 mL/min

Corrected calcium equal to or greater than 2.10 mmol/L

❖ Contact Physician if parameters not met

SEQUENCE OF MEDICATION ADMINISTRATION

Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
Not Applicable		

Treatment Regimen – BRST – zoledronic acid (Metastatic)

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
zoledronic acid	4 mg	IV in normal saline 100 mL over 15 minutes

Flush after each medication:

- 50 mL over 6 minutes (500 mL/hr)

In the event of an infusion-related hypersensitivity reaction, refer to the 'Hypersensitivity Reaction Standing Order'

REQUIRED MONITORING

- Serum creatinine, calcium, albumin within 7 days prior to each zoledronic acid as per physician order
- Recent patient weight

Recommended Dose Adjustments for zoledronic acid

Creatinine clearance (mL/minute)	zoledronic acid dose
Greater than or equal to 60	4 mg
50 to 59.9	3.5 mg
40 to 49.9	3.3 mg
30 to 39.9	3 mg
Less than 30	Not recommended

Creatinine clearance should be calculated based on actual body weight.

Patient's dose should be adjusted based on recommended doses above.

Contact physician if:

- a) Corrected calcium is less than 2.1 mmol/L OR
- b) Creatinine clearance less than 30 mL/minute OR
- c) Consideration should be given to discontinuing zoledronic acid in the presence of persistent renal deterioration, defined as greater than 90 micromol/L increase in baseline serum creatinine from the time of zoledronic acid initiation

Recommended Support Medications

Drug	Dose	CCMB Administration Guideline
calcium carbonate	1250 mg	Orally twice daily at physician's discretion* (providing 1000 mg elemental calcium per day)
Vitamin D	1000 International Units	Orally once daily at physician's discretion*

*Daily average calcium and vitamin D needs from both dietary sources and supplements

DISCHARGE INSTRUCTIONS

- Patient should advise dentist/hygienist that they are receiving zoledronic acid

ADDITIONAL INFORMATION

- zoledronic acid can cause osteonecrosis of the jaw