

## Regimen Reference Order – trastuzumab desensitization

Desensitization protocol is prescribed in combination with a trastuzumab protocol

To order this therapy in ARIA, refer to Additional Information below

**Planned Course:** Refer to prescribed trastuzumab-based protocol

**Indication for Use:** Eligible patients with previous hypersensitivity reactions to trastuzumab

**Alert:** Desensitization protocol

### *trastuzumab:*

- *trastuzumab is prepared in 3 separate bags with a total volume of 250 mL in each bag*
- *IV tubing is primed with trastuzumab (Cytotoxic)*
- *trastuzumab is administered slowly following specified rate increases. trastuzumab infusion takes approximately 6 hours to complete*

CVAD: At Provider's Discretion

### Blood work requirements:

- ❖ *Refer to prescribed trastuzumab-based protocol*

## SEQUENCE OF MEDICATION ADMINISTRATION

### Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
<i>Refer to prescribed trastuzumab-based protocol</i>		

### Treatment Regimen – trastuzumab desensitization

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
<b>Day 1</b>		
cetirizine	20 mg	Orally <b>1 hour</b> prior to trastuzumab
montelukast	10 mg	Orally <b>1 hour</b> prior to trastuzumab
acetylsalicylic acid	650 mg	Orally <b>1 hour</b> prior to trastuzumab
famotidine	20 mg	IV in normal saline 50 mL over 15 minutes <b>1 hour</b> prior to trastuzumab

dexamethasone	20 mg	IV in normal saline 50 mL over 15 minutes <b>1 hour</b> prior to trastuzumab <i>*Nursing Alert: trastuzumab starts 1 hour after completion of dexamethasone infusion</i>
<b>Wait 1 hour after completion of IV pre-medication(s) before starting trastuzumab</b>		
trastuzumab	1/100 <sup>th</sup> (1%) of dose (BAG 1)	IV in normal saline 250 mL following the administration rates below: <b>Step 1:</b> 2 mL/hour for 15 minutes, then <b>Step 2:</b> 5 mL/hour for 15 minutes, then <b>Step 3:</b> 10 mL/hour for 15 minutes, then <b>Step 4:</b> 20 mL/hour for 15 minutes <b>Once step 4 is complete, discard remainder of bag and proceed immediately to BAG 2</b> <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i> <i>*Nursing Alert: IV tubing is primed with trastuzumab</i>
	1/10 <sup>th</sup> (10%) of dose (BAG 2)	IV in normal saline 250 mL following the administration rates below: <b>Step 5:</b> 5 mL/hour for 15 minutes, then <b>Step 6:</b> 10 mL/hour for 15 minutes, then <b>Step 7:</b> 20 mL/hour for 15 minutes, then <b>Step 8:</b> 40 mL/hour for 15 minutes <b>Once step 8 is complete, discard remainder of bag and proceed immediately to BAG 3</b> <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i> <i>*Nursing Alert: IV tubing is primed with trastuzumab</i>
	99.2% of dose (BAG 3)	IV in normal saline 250 mL following the administration rates below: <b>Step 9:</b> 10 mL/hour for 15 minutes, then <b>Step 10:</b> 20 mL/hour for 15 minutes, then <b>Step 11:</b> 40 mL/hour for 15 minutes, then <b>Step 12:</b> 80 mL/hour until infusion is complete <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i> <i>*Nursing Alert: IV tubing is primed with trastuzumab</i>

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

## REQUIRED MONITORING

### All Cycles

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O<sub>2</sub> saturation) at baseline and as clinically indicated
- No observation period is required after trastuzumab administration. Patient can be discharged from treatment room if stable whether they had a reaction or not
- Refer to the prescribed trastuzumab-based protocol for additional monitoring

### Recommended Support Medications

Drug	Dose	CCMB Administration Guideline
<i>Refer to prescribed trastuzumab-based protocol</i>		

### DISCHARGE INSTRUCTIONS

- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity occur after discharge
- Refer to the prescribed trastuzumab-based protocol for additional discharge instructions

### ADDITIONAL INFORMATION

- Oncologist must write first prescription of trastuzumab desensitization protocol
- Once the patient requires trastuzumab desensitization protocol, all subsequent trastuzumab doses must be given using trastuzumab desensitization protocol
- Refer to the prescribed trastuzumab-based protocol for additional trastuzumab information
- **ARIA ordering:** Support protocol is available under trastuzumab in the “Desensitization” folder
- Due to the duration of treatment, administration site restrictions may be in place for trastuzumab desensitization