

## Regimen Reference Order – trastuzumab desensitization

Desensitization protocol is prescribed in combination with a trastuzumab-based protocol

To order this therapy in ARIA, refer to ADDITIONAL INFORMATION

**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*
- *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
Administration of trastuzumab by desensitization is used in place of trastuzumab by standard administration in the prescribed protocol. Follow the sequence of drug administration of the prescribed trastuzumab-based protocol		
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