

Regimen Reference Order – trastuzumab desensitization

Desensitization protocol is prescribed in combination with a trastuzumab protocol

ARIA: SUPP - [tras (desens) 6 mg/kg]

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
Day 1		
cetirizine	20 mg	Orally 1 hour prior to trastuzumab
montelukast	10 mg	Orally 1 hour prior to trastuzumab
acetylsalicylic acid	650 mg	Orally 1 hour prior to trastuzumab
famotidine	20 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to trastuzumab

dexamethasone	20 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to trastuzumab <i>*Nursing Alert: trastuzumab starts 1 hour after completion of dexamethasone infusion</i>
Wait 1 hour after completion of IV pre-medication(s) before starting trastuzumab		
trastuzumab	1/100 th (1%) of dose (BAG 1)	IV in normal saline 250 mL following the administration rates below: Step 1: 2 mL/hour for 15 minutes, then Step 2: 5 mL/hour for 15 minutes, then Step 3: 10 mL/hour for 15 minutes, then Step 4: 20 mL/hour for 15 minutes Once step 4 is complete, discard remainder of bag and proceed immediately to BAG 2 <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i> <i>*Nursing Alert: IV tubing is primed with trastuzumab</i>
	1/10 th (10%) of dose (BAG 2)	IV in normal saline 250 mL following the administration rates below: Step 5: 5 mL/hour for 15 minutes, then Step 6: 10 mL/hour for 15 minutes, then Step 7: 20 mL/hour for 15 minutes, then Step 8: 40 mL/hour for 15 minutes Once step 8 is complete, discard remainder of bag and proceed immediately to BAG 3 <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: Step 9: 10 mL/hour for 15 minutes, then Step 10: 20 mL/hour for 15 minutes, then Step 11: 40 mL/hour for 15 minutes, then Step 12: 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 O₂ 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
- Due to the duration of treatment, administration site restrictions may be in place for trastuzumab desensitization
- Support protocol is available under trastuzumab in the “Desensitization” folder