

## Regimen Reference Order – CISplatin desensitization

CISplatin desensitization protocol is prescribed in combination with a CISplatin-based protocol

ARIA: SUPP - [CISplatin desensitization]

Planned Course: Refer to prescribed CISplatin-based protocol

Indication for Use: Eligible patients with previous hypersensitivity reactions to CISplatin

Alert: Desensitization protocol

### *CISplatin:*

- *CISplatin is prepared in a total volume of 1000 mL by Pharmacy*
- *CISplatin must be the first chemotherapy agent administered when given in combination with another chemotherapy agent*
- *IV tubing is primed with CISplatin (Cytotoxic)*
- *CISplatin is administered slowly following specified rate increases. CISplatin infusion takes approximately 5.25 hours to complete*

CVAD: At Provider's Discretion

### Blood work requirements:

- ❖ *Refer to prescribed CISplatin-based protocol*

## SEQUENCE OF MEDICATION ADMINISTRATION

### Pre-treatment Requirements

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

### Treatment Regimen – CISplatin desensitization

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
Antiemetics	Antiemetics must be given prior to CISplatin. Refer to prescribed CISplatin-based protocol	
magnesium sulfate	2 g	<b>ONLY</b> to be given if CISplatin dose equal to or greater than 50 mg/m <sup>2</sup> IV in normal saline 1000 mL over 2 hours (Pre hydration)
cetirizine	20 mg	Orally <b>1 hour</b> prior to CISplatin
acetaminophen	650 mg	Orally <b>1 hour</b> prior to CISplatin

dexamethasone	20 mg	IV in normal saline 50 mL over 15 minutes <b>1 hour</b> prior to CISplatin <i>*Nursing Alert: CISplatin starts 1 hour after completion of dexamethasone</i>
famotidine	20 mg	IV in normal saline 50 mL over 15 minutes <b>45 minutes</b> prior to CISplatin
<b>Wait 45 minutes after completion of IV pre-medication(s) before starting CISplatin</b>		
CISplatin	Dose as specified in protocol	IV in 1000 mL (normal saline or D5W as per prescribed CISplatin-based protocol) following the administration rates below: <b>Step 1:</b> 2 mL/hour for 15 minutes, then <b>Step 2:</b> 4 mL/hour for 15 minutes, then <b>Step 3:</b> 6 mL/hour for 15 minutes, then <b>Step 4:</b> 8 mL/hour for 15 minutes, then <b>Step 5:</b> 10 mL/hour for 15 minutes, then <b>Step 6:</b> 15 mL/hour for 15 minutes, then <b>Step 7:</b> 30 mL/hour for 15 minutes, then <b>Step 8:</b> 60 mL/hour for 15 minutes, then <b>Step 9:</b> 80 mL/hour for 15 minutes, then <b>Step 10:</b> 100 mL/hour for 15 minutes, then <b>Step 11:</b> 120 mL/hour for 15 minutes, then <b>Step 12:</b> 140 mL/hour for 15 minutes, then <b>Step 13:</b> 160 mL/hour for 15 minutes, then <b>Step 14:</b> 180 mL/hour for 15 minutes, then <b>Step 15:</b> 200 mL/hour for 15 minutes, then <b>Step 16:</b> 400 mL/hour for 15 minutes, then <b>Step 17:</b> 600 mL/hour until infusion is complete <i>*Alert: Pharmacy to ensure final volume in bag = 1000 mL</i> <i>*Alert: CISplatin infusion must be complete prior to mannitol administration</i> <i>*Alert: CISplatin must be the first chemotherapy agent administered when given in combination with another chemotherapy agent</i> <i>*Nursing Alert: IV tubing is primed with CISplatin</i>
mannitol	12.5 g	<b>ONLY</b> to be given if CISplatin dose equal to or greater than 50 mg/m <sup>2</sup> IV in normal saline 1000 mL over 2 hours (Post hydration)

**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 required. Patient can be discharged from treatment room if stable whether they had a reaction or not
- Refer to the prescribed CISplatin-based protocol for additional monitoring

### Recommended Support Medications

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

### DISCHARGE INSTRUCTIONS

- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge
- Refer to the prescribed CISplatin-based protocol for additional discharge instructions
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

### ADDITIONAL INFORMATION

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