

Regimen Reference Order – CISplatin desensitization

ARIA: SUPP – [CISplatin desensitization]

Planned Course: Refer to prescribed CISplatin-based protocol

Indication for Use: Eligible patients with Grade 3 or 4 infusion-related 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. Administration takes a minimum of 5 hours and 15 minutes 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	ONLY to be given if CISplatin dose equal to or greater than 50 mg/m ² IV in normal saline 1000 mL over 2 hours (Pre hydration)
acetaminophen	650 mg	Orally 45 minutes prior to CISplatin

dexamethasone	20 mg	IV in normal saline 50 mL over 15 minutes 45 minutes prior to CISplatin <i>*Nursing Alert: CISplatin starts 45 minutes after completion of dexamethasone</i>
diphenhydrAMINE	50 mg	IV in normal saline 50 mL over 15 minutes
famotidine	20 mg	IV in normal saline 50 mL over 15 minutes
Wait 30 minutes after completion of IV pre-medications before starting CISplatin		
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: Step 1: 2 mL/hour for 15 minutes, then Step 2: 4 mL/hour for 15 minutes, then Step 3: 6 mL/hour for 15 minutes, then Step 4: 8 mL/hour for 15 minutes, then Step 5: 10 mL/hour for 15 minutes, then Step 6: 15 mL/hour for 15 minutes, then Step 7: 30 mL/hour for 15 minutes, then Step 8: 60 mL/hour for 15 minutes, then Step 9: 80 mL/hour for 15 minutes, then Step 10: 100 mL/hour for 15 minutes, then Step 11: 120 mL/hour for 15 minutes, then Step 12: 140 mL/hour for 15 minutes, then Step 13: 160 mL/hour for 15 minutes, then Step 14: 180 mL/hour for 15 minutes, then Step 15: 200 mL/hour for 15 minutes, then Step 16: 400 mL/hour for 15 minutes, then Step 17: 600 mL/hour until infusion is complete <i>*Alert: Pharmacy to ensure final volume in bag = 1000 mL</i> <i>*Nursing Alert: IV tubing is primed with CISplatin</i> <i>*Alert: CISplatin must be the first chemotherapy agent administered when given in combination with another chemotherapy agent</i> <i>*Alert: CISplatin infusion must be complete prior to mannitol administration</i>
mannitol	12.5 g	ONLY to be given if CISplatin dose equal to or greater than 50 mg/m ² IV in normal saline 1000 mL over 2 hours (Post hydration)
diphenhydrAMINE	25 to 50 mg	diphenhydrAMINE may be repeated prior to PAClitaxel or another chemotherapy agent when included in the prescribed CISplatin-based protocol

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 required. Patient can be discharged from treatment room if stable whether they had a reaction or not

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

DISCHARGE INSTRUCTIONS

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