

## Regimen Reference Order

### H&N – gemcitabine + CISplatin (NPC-recurrent)

ARIA: H&N – [gem + CIS (NPC-recurrent)]

**Planned Course:** Every 21 days for 6 cycles

**Indication for Use:** Nasopharyngeal Carcinoma (NPC); Recurrent or Metastatic

**CVAD:** At Provider's Discretion

***Proceed with treatment if:***

- *ANC equal to or greater than  $1.5 \times 10^9/L$  AND Platelets equal to or greater than  $100 \times 10^9/L$*
- *Creatinine clearance greater than 45 mL/minute*
- ❖ **Contact Physician if parameters not met**

#### SEQUENCE OF MEDICATION ADMINISTRATION

##### Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
Not Applicable		

##### Treatment Regimen – H&N – gemcitabine and CISplatin (NPC-recurrent)

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
<b>Day 1</b>		
magnesium sulfate	2 g	IV in normal saline 1000 mL over 2 hours (Pre hydration)
aprepitant	125 mg	Orally 1 hour pre-chemotherapy
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
OLANzapine	2.5 mg	Orally 30 minutes pre-chemotherapy
gemcitabine	$1000 \text{ mg/m}^2$	IV in normal saline 250 mL over 30 minutes
CISplatin	$80 \text{ mg/m}^2$	IV in normal saline 500 mL over 1 hour <i>*Alert: CISplatin infusion must be complete prior to mannitol administration</i>
mannitol	12.5 g	IV in normal saline 1000 mL over 2 hours (Post hydration)
<b>Days 2 and 3</b>		
normal saline	1000 mL	IV over 2 hours

Day 8		
dexamethasone	8 mg	Orally 30 minutes pre-chemotherapy
gemcitabine	1000 mg/m <sup>2</sup>	IV in normal saline 250 mL over 30 minutes

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

## REQUIRED MONITORING

### Day 1

- CBC, serum creatinine, urea, liver enzymes, total bilirubin and electrolytes as per Physician Orders
- Baseline blood pressure prior to magnesium infusion and repeat 15 minutes after start of magnesium infusion

### Day 8

- CBC and serum creatinine

## Recommended Support Medications

Drug	Dose	CCMB Administration Guideline
aprepitant	80 mg	Orally once daily on Days 2 and 3
dexamethasone	8 mg	Orally once daily on Days 2, 3 and 4
OLANzapine	2.5 mg	Orally the evening of Day 1 then twice daily on Days 2, 3 and 4. Also use OLANzapine 2.5 to 5 mg AS NEEDED for breakthrough nausea and vomiting (including Days 1 to 4) up to maximum of 10 mg per day. Contact clinic if nausea/vomiting is not adequately controlled

## DISCHARGE INSTRUCTIONS

- Instruct patient to continue taking anti-emetic(s) at home
- Instruct patient to notify cancer team if having significant diarrhea or vomiting
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

## ADDITIONAL INFORMATION

- CISplatin is ototoxic and nephrotoxic
- CISplatin can cause hypomagnesemia