

## Regimen Reference Order – H&N – CARBOplatin + radiation

ARIA: H&N – [CARBOplatin (weekly) + radiation]

Planned Course: Weekly for 7 weeks with concurrent radiation

Indication for Use: Squamous Cell Carcinoma of Head and Neck

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  $100 \times 10^9/L$***

***❖ Contact Physician if parameters are not met***

### SEQUENCE OF MEDICATION ADMINISTRATION

#### Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
Not Applicable		

#### Treatment Regimen – H&N – CARBOplatin + radiation

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
<b>Days 1, 8, 15, 22, 29, 36, 43</b>		
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
CARBOplatin	AUC 1.5 mg/mL.min; maximum dose 225 mg (see table below)	IV in D5W 250 mL over 30 minutes

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

### REQUIRED MONITORING

Weekly

- CBC, serum creatinine, urea, electrolytes, liver enzymes and total bilirubin as per Physician Orders

Recommended Support Medications		
Drug	Dose	CCMB Administration Guideline
dexamethasone	8 mg	Orally once daily for 2 days after each CARBOplatin administration
metoclopramide	10 to 20 mg	Orally every 4 hours as needed for nausea and vomiting

**DISCHARGE INSTRUCTIONS**

- Instruct patient to continue taking anti-emetic(s) at home
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

**ADDITIONAL INFORMATION**

- CARBOplatin dose considerations:
  - CCMB Head & Neck DSG uses **actual body weight** to calculate GFR
  - CCMB Head & Neck DSG uses a maximum CARBOplatin dose of 225 mg for this regimen
  - If calculated CARBOplatin dose differs **more than 10%** from prescribed CARBOplatin dose, contact the prescriber

**CARBOplatin Dosing Calculations  
per CCMB Head & Neck DSG**

*Calculation of CARBOplatin dose: (maximum 225 mg)*

Dose (mg) = target AUC (GFR + 25)

$$\text{GFR} = \frac{N \times (140 - \text{age in years}) \times \text{Actual Body Weight (kg)}}{\text{serum creatinine in } \mu\text{mol/L}} = \text{___ mL/min}$$

N = 1.23 in males  
N = 1.04 in females

AUC (mg/mL.min) <hr style="width: 50%; margin: 0 auto;"/> 1.5	X	GFR + 25 (mL/min) <hr style="width: 50%; margin: 0 auto;"/> ___ + 25	=	Total Dose (mg) <hr style="width: 50%; margin: 0 auto;"/>
---	---	--	---	---

AUC= Area Under Curve

*The estimated creatinine clearance is based on limited evidence. Sound clinical judgment and interpretation of the estimation are required, because the equation above may not be appropriate for some patient populations (for example, acute renal failure)*