

Regimen Reference Order – H&N – PACLitaxel + CARBOplatin

ARIA: - H&N – [PACLitaxel + CARBOplatin (q3 weeks)]

Planned Course: Every 21 days for 4 to 6 cycles

Indication for Use: Nasopharyngeal carcinoma

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 not met

SEQUENCE OF MEDICATION ADMINISTRATION

Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
Not Applicable		

Treatment Regimen – H&N – PACLitaxel + CARBOplatin

Establish primary solution 500 mL of: normal saline		
Drug	Dose	CCMB Administration Guideline
famotidine	40 mg	Orally 1 hour prior to PACLitaxel
cetirizine	10 mg	Orally 1 hour prior to PACLitaxel
aprepitant	125 mg	Orally 1 hour pre-chemotherapy
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	20 mg	IV in normal saline 50 mL over 15 minutes
Wait 30 minutes after completion of IV pre-medications before starting PACLitaxel		
PACLitaxel	145 mg/m ²	IV in normal saline 500 mL over 3 hours <i>Use non-DEHP bags and non-DEHP administration sets with 0.2 or 0.22 micron filter</i>
CARBOplatin	AUC 6 mg/mL.min; maximum dose 900 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

All Cycles

- CBC, serum creatinine, electrolytes, liver enzymes and total bilirubin as per Physician Orders
- 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 PACLitaxel administration. Patient can be discharged from treatment room if stable whether they had a reaction or not

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 and 3
metoclopramide	10 - 20 mg	Orally every 4 hours as needed for nausea and vomiting

DISCHARGE INSTRUCTIONS

- Patient should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge
- 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

- PACLitaxel may cause progressive, irreversible neuropathy
- CARBOplatin dosing considerations:
 - CCMB Head & Neck DSG uses **actual body weight** to calculate GFR
 - CCMB Head & Neck DSG uses a maximum CARBOplatin dose of 900 mg for this regimen
 - If calculated CARBOplatin differs **more than 10%** from prescribed CARBOplatin dose, contact the prescriber

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

Calculation of CARBOplatin dose: (maximum 900 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;"/> 6	x	GFR + 25 (mL/min) <hr style="width: 50%; margin: 0 auto;"/> ___ + 25	=	Total Dose (mg) <hr style="width: 50%; margin: 0 auto;"/>
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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)