ADULT Updated: June 14, 2023

Regimen Reference Order - H&N - PACLitaxel + CARBOplatin

ARIA: H&N - [PACLitaxel + CARBO (q3weeks)]

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	
	N	ot Applicable	

Establish primary solution 500 mL of: normal saline				
Drug	Dose	CCMB Administration Guideline		
cetirizine	20 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 <u>1 hour</u> prior to PACLitaxel		
		*Nursing Alert: PACLitaxel starts 1 hour after completion of dexamethasone infusion		
Wait 1 hour after cor	mpletion of IV pre-medicati	on(s) before starting PACLitaxel		
PACLitaxel	145 mg/m ²	IV in normal saline 500 mL over 3 hours, following the administration rates below:		
		 Administer at 100 mL/hour for 15 minutes, then 		
		 Administer remaining volume over 2 hours and 45 minutes 		
		Use non-DEHP bags and non-DEHP administration sets with 0.2 or 0.22 micron filter		
		*Nursing Alert: Gently invert bag 8 to 10 times immediately prio to administration of PACLitaxel to evenly distribute the drug		
CARBOplatin	AUC 6 mg/mL.min; maximum dose 900 mg	IV in D5W 250 mL over 30 minutes		

All doses will be automatically rounded that fall within CCMB Approved Dose Bands. See Dose Banding document for more information

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:
 - o CCMB Head & Neck DSG uses actual body weight to calculate GFR
 - o CCMB Head & Neck DSG uses a maximum CARBOplatin dose of 900 mg for this regimen
 - o 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) GFR = N x (140-age in years) x Actual Body Weight (kg) = ___ mL/min serum creatinine in micromol/L N = 1.23 in males N = 1.04 in females AUC **Total Dose** GFR + 25 (mg/mL.min) Χ (mL/min) (mg) 6 + 25

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).

