

Regimen Reference Order – THOR – PACLitaxel + CARBOplatin + radiation

ARIA: LUNG – [PACLitaxel + CARBOplatin with RT]

Planned Course: Once weekly for 6 weeks with concurrent radiation

Indication for Use: Non-Small Cell Lung Cancer

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 – THOR – PACLitaxel + CARBOplatin + radiation

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
Days 1, 8, 15, 22, 29 and 36		
famotidine	40 mg	Orally 1 hour prior to PACLitaxel
cetirizine	10 mg	Orally 1 hour prior to PACLitaxel
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	45 mg/m ²	IV in normal saline 250 mL over 1 hour <i>Use non-DEHP bags and non-DEHP administration sets with 0.2 or 0.22 micron filter</i>
CARBOplatin	AUC 3 mg/mL.min; maximum dose 450 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, liver enzymes and electrolytes 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
dexamethasone	8 mg	Orally once daily for 2 days after each day of chemotherapy
metoclopramide	10 to 20 mg	Orally every 4 hours as needed for nausea and vomiting

DISCHARGE INSTRUCTIONS

- Patients 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 dose considerations:
 - CCMB THOR DSG uses actual body weight to calculate GFR
 - CCMB THOR DSG uses a maximum CARBOplatin dose of 450 mg for this regimen
 - If calculated CARBOplatin dose differs more than 10% from prescribed CARBOplatin dose, contact the prescriber

**CARBOplatin Dosing Calculations
per CCMB Thoracic DSG**

Calculation of CARBOplatin dose: (maximum 450 mg)

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

GFR = $N \times (140 - \text{age in years}) \times \text{Actual Body Weight (kg)}$ = ____ mL/min

serum creatinine in umol/L

N = 1.23 in males
N = 1.04 in females

AUC (mg/mL.min)
3

x

GFR + 25 (mL/min)
____ + 25

=

Total Dose (mg)

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)