

Regimen Reference Order

THOR – CISplatin + etoposide with Concurrent Radiation

ARIA: LUNG – [CISplatin + etoposide with RT]

Planned Course: CISplatin and etoposide with concurrent radiation

Indication for Use: Non-Small Cell Lung Cancer

CVAD: At Provider's Discretion

Proceed with treatment if:

Days 1, 8, 29, 36:

- **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 – THOR – CISplatin + etoposide with concurrent radiation

Establish primary solution 500 mL of: normal saline		
Drug	Dose	CCMB Administration Guideline
Day 1		
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
CISplatin	50 mg/m ²	IV in normal saline 500 mL over 1 hour
mannitol	12.5 g	IV in normal saline 500 mL over 1 hour (Post-hydration)
etoposide	50 mg/m ²	IV in normal saline 250 mL over 1 hour <i>Use non-DEHP bags and non-DEHP administration sets</i>
Days 2 to 5		
dexamethasone	8 mg	Orally 30 minutes pre-chemotherapy

etoposide	50 mg/m ²	IV in normal saline 250 mL over 1 hour <i>Use non-DEHP bags and non-DEHP administration sets</i>
Day 8		
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
CISplatin	50 mg/m ²	IV in normal saline 500 mL over 1 hour
mannitol	12.5 g	IV in normal saline 1000 mL over 2 hours (Post-hydration)
Day 29		
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
CISplatin	50 mg/m ²	IV in normal saline 500 mL over 1 hour
mannitol	12.5 g	IV in normal saline 500 mL over 1 hour (Post-hydration)
etoposide	50 mg/m ²	IV in normal saline 250 mL over 1 hour <i>Use non-DEHP bags and non-DEHP administration sets</i>
Days 30 to 33		
dexamethasone	8 mg	Orally 30 minutes pre-chemotherapy
etoposide	50 mg/m ²	IV in normal saline 250 mL over 1 hour <i>Use non-DEHP bags and non-DEHP administration sets</i>
Day 36		
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

CISplatin	50 mg/m ²	IV in normal saline 500 mL over 1 hour
mannitol	12.5 g	IV in normal saline 1000 mL over 2 hours (Post-hydration)

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

REQUIRED MONITORING

Days 1, 8, 29 and 36

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

Recommended Support Medications

Drug	Dose	CCMB Administration Guideline
aprepitant	80 mg	Orally once daily on Days 2, 3, 9, 10, 30, 31, 37 and 38
dexamethasone	8 mg	Orally once daily on Days 9, 10, 11, 37, 38 and 39
OLANZapine	2.5 mg	Orally the evening of Days 1, 8, 29 and 36 and twice daily on Days 2, 3, 4, 9, 10, 11, 30, 31, 32, 37, 38 and 39. Also use OLANZapine 2.5 to 5 mg AS NEEDED for breakthrough nausea and vomiting (including Days 1 to 4, 8 to 11, 29 to 32 and 36 to 39) up to a 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
- Maintain oral intake of 2000 mL (8 glasses) of fluid daily at home
- 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