

Regimen Reference Order

THOR – CISplatin + fluorouracil with concurrent radiation

ARIA: ESOPH – [CISplatin+5FU+RT (Phase 1)]

ESOPH – [CISplatin+5FU+RT (Phase 2)]

Planned Course: Cycle 1 = 28 days, then every 21 days for 3 cycles
(with concurrent radiation for the first 5 weeks)

Indication for Use: Esophageal Cancer; Locally Advanced

CVAD: Required (Ambulatory Pump)

Proceed with treatment if:

Day 1

- 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 are not met

SEQUENCE OF MEDICATION ADMINISTRATION

Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
Not Applicable		

Treatment Regimen – THOR – CISplatin + fluorouracil 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	75 mg/m ²	IV in normal saline 500 mL over 1 hour <i>*Alert: CISplatin infusion must be complete prior to mannitol administration</i>
mannitol	12.5 g	IV in normal saline 1000 mL over 2 hours (Post hydration)
fluorouracil	4000 mg/m ²	IV in D5W continuously over 96 hours by ambulatory infusion device

Days 2 and 3

normal saline

1000 mL

IV over 2 hours

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

REQUIRED MONITORING

All Cycles

- CBC, serum creatinine, urea, electrolytes and liver enzymes as per Physician 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 and 3
dexamethasone	8 mg	Orally once daily on Days 2 to 4
OLANzapine	2.5 mg	Orally the evening of Day 1 then twice daily on Days 2 to 4. Also use OLANzapine 2.5 to 5 mg AS NEEDED for breakthrough nausea and vomiting (including Days 1 to 4) up to 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
- Ensure patient has received a home chemotherapy spill kit and instructions for use
- Notify clinic if having significant diarrhea or vomiting
- 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
- Cycle 1 is usually started on the first day of radiation therapy
- Cycles 3 and 4 will be given after radiation is complete
- **Note:** Upon completion of 1 cycle of **ESOPH – [CISplatin+5FU+RT (Phase 1)]**, patients should be started on **ESOPH – [CISplatin+5FU+RT (Phase 2)]** to complete 4 cycles
 - **ESOPH – [CISplatin+5FU+RT (Phase 2)]** should begin 28 days after Cycle 1, Day 1 of **ESOPH – [CISplatin+5FU+RT (Phase 1)]**
- Given that CISplatin + fluorouracil is given concurrently with radiation, site restrictions are in place for Cycles 1 and 2