

## Regimen Reference Order – THOR – CISplatin + irinotecan

ARIA: LUNG – [CISplatin + irinotecan]

Planned Course: Every 28 days for 6 cycles

Indication for Use: Small Cell Lung Cancer

CVAD: At Provider's Discretion

### 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 is greater than 45 mL/minute

#### Days 8 and 15

- 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 – THOR – CISplatin + irinotecan

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
<b>Day 1</b>		
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	60 mg/m <sup>2</sup>	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 500 mL over 1 hours (Post hydration)
atropine	0.6 mg	IV push over 2 – 3 minutes prior to irinotecan May be repeated once if diarrhea occurs during irinotecan infusion
irinotecan	60 mg/m <sup>2</sup>	IV in D5W 500 mL over 90 minutes

Days 8 and 15		
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
atropine	0.6 mg	IV push over 2 – 3 minutes prior to irinotecan May be repeated once if diarrhea occurs during irinotecan infusion
irinotecan	60 mg/m <sup>2</sup>	IV in D5W 500 mL over 90 minutes

Flush after each medication:

- 50 mL over 6 minutes (500 mL/hr)

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

## REQUIRED MONITORING

All Cycles

Day 1

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

Day 8

- CBC

## 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 and once daily on Days 9 and 10 and 16 and 17
OLANzapine	2.5 mg	Orally the evening of Day 1 then twice daily on Days 2, 3 and 4. Also use OLANzapine 2.5 to 5 mg AS NEEDED for breakthrough nausea and vomiting (including Days 1 to 4) up to a maximum of 10 mg per day. Contact clinic if nausea/vomiting is not adequately controlled
loperamide	2 to 4 mg	Orally as directed below

## DISCHARGE INSTRUCTIONS

- Instruct patient to continue taking anti-emetic(s) at home
- If diarrhea occurs within 24 hours of irinotecan administration:
  - Return to cancer care clinic or go to the emergency department. A second dose of intravenous atropine may be required
- If cramping or diarrhea occurs more than 24 hours after irinotecan administration:
  - Take loperamide 4 mg (two 2 mg tablets) orally immediately; then
  - During the day: take 2 mg (one 2 mg tablet) orally every 2 hours
  - During the night: Take 4 mg (two 2 mg tablets) orally at bedtime and then every 4 hours until morning
  - STOP loperamide once no bowel movement has occurred (i.e. diarrhea-free) for 12 hours

- If diarrhea has not stopped despite taking **12 tablets (24 mg) of loperamide over a 24 hour period**, please contact your clinic for further instructions. If this occurs after clinic hours, please call the Medical Oncologist on-call and/or report to the nearest emergency room/urgent care centre. Please note that 24 mg per 24 hours is higher than the usual “over the counter” dose for loperamide
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

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## ADDITIONAL INFORMATION

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- Nursing to provide patient with 30 tablet supply of loperamide 2 mg, labelled by Pharmacy, to take home with Cycle 1
- CISplatin is ototoxic and nephrotoxic
- CISplatin can cause hypomagnesemia