

Regimen Reference Order – THOR – amivantamab

ARIA: LUNG - [amivantamab under 80kg]

LUNG - [amivantamab 80kg or more]

Planned Course: Until disease progression or unacceptable toxicity (1 cycle = 28 days)

Note: This Regimen Reference Order includes two Treatment Regimens (for patients weighing less than 80 kg AND for patients weighing greater than or equal to 80 kg)

Indication for Use: Non-Small Cell Lung Cancer; EGFR exon 20 insertion mutation positive

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 $100 \times 10^9/L$
 - Total bilirubin equal to or less than 3 times the upper limit of normal
 - Creatinine clearance equal to or greater than 30 mL/minute
- ❖ Contact prescriber if parameters not met

SEQUENCE OF MEDICATION ADMINISTRATION

Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
Not Applicable		

Treatment Regimen – THOR – amivantamab for patients weighing less than 80 kg at baseline*

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
Cycle 1 – amivantamab on Days 1, 2, 8, 15 and 22 (escalating doses and infusion rates)		
Day 1		
cetirizine	20 mg	Orally 1 hour prior to amivantamab
acetaminophen	975 mg	Orally 1 hour prior to amivantamab
dexamethasone	10 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to amivantamab <i>*Nursing Alert: amivantamab starts 1 hour after completion of dexamethasone</i>

Wait 1 hour after completion of IV pre-medication(s) before starting amivantamab

amivantamab	350 mg	IV in normal saline 250 mL on Day 1 following administration rates below: <ul style="list-style-type: none"> 0 to 120 minutes – 50 mL/hour 120 minutes onwards – 75 mL/hour <i>Use 0.2 or 0.22 micron filter</i> <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i>
Day 2		
cetirizine	20 mg	Orally 1 hour prior to amivantamab
acetaminophen	975 mg	Orally 1 hour prior to amivantamab
dexamethasone	10 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to amivantamab <i>*Nursing Alert: amivantamab starts 1 hour after completion of dexamethasone</i>
Wait 1 hour after completion of IV pre-medication(s) before starting amivantamab		
amivantamab	700 mg	IV in normal saline 250 mL on Day 2 following administration rates below: <ul style="list-style-type: none"> 0 to 120 minutes – 50 mL/hour 120 minutes onwards – 75 mL/hour <i>Use 0.2 or 0.22 micron filter</i> <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i>
Day 8		
cetirizine	20 mg	Orally 1 hour prior to amivantamab
acetaminophen	975 mg	Orally 1 hour prior to amivantamab
dexamethasone	10 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to amivantamab <i>*Nursing Alert: amivantamab starts 1 hour after completion of dexamethasone</i>
Wait 1 hour after completion of IV pre-medication(s) before starting amivantamab		
amivantamab	1050 mg	IV in normal saline 250 mL on Day 8 Administer at 85 mL/hour <i>Use 0.2 or 0.22 micron filter</i> <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i>
Days 15 and 22		
cetirizine	20 mg	Orally 1 hour prior to amivantamab
acetaminophen	975 mg	Orally 1 hour prior to amivantamab
dexamethasone	10 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to amivantamab <i>*Nursing Alert: amivantamab starts 1 hour after completion of dexamethasone</i>
Wait 1 hour after completion of IV pre-medication(s) before starting amivantamab		

amivantamab	1050 mg	IV in normal saline 250 mL over 2 hours on Days 15 and 22 Administer at 125 mL/hour Use 0.2 or 0.22 micron filter <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i>
Cycle 2 and Onwards		
Days 1 and 15		
cetirizine	20 mg	Orally 1 hour prior to amivantamab
acetaminophen	975 mg	Orally 1 hour prior to amivantamab
dexamethasone	10 mg	ONLY to be given if patient had an infusion-related reaction with a previous amivantamab infusion IV in normal saline 50 mL over 15 minutes 1 hour prior to amivantamab <i>*Nursing Alert: amivantamab starts 1 hour after completion of dexamethasone</i>
If applicable, wait 1 hour after completion of IV pre-medication(s) before starting amivantamab		
amivantamab	1050 mg	IV in normal saline 250 mL over 2 hours on Days 1 and 15 Administer at 125 mL/hour Use 0.2 or 0.22 micron filter <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i>
*amivantamab dose is based on baseline weight of patient when treatment is ordered. Dose adjustments are not required for subsequent body weight changes		

Treatment Regimen – THOR – amivantamab
for patients weighing greater than or equal to 80 kg at baseline*

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
Cycle 1 – amivantamab on Days 1, 2, 8, 15 and 22 (escalating doses and infusion rates)		
Day 1		
cetirizine	20 mg	Orally 1 hour prior to amivantamab
acetaminophen	975 mg	Orally 1 hour prior to amivantamab
dexamethasone	10 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to amivantamab <i>*Nursing Alert: amivantamab starts 1 hour after completion of dexamethasone</i>
Wait 1 hour after completion of IV pre-medication(s) before starting amivantamab		
amivantamab	350 mg	IV in normal saline 250 mL on Day 1 following administration rates below: <ul style="list-style-type: none"> • 0 to 120 minutes – 50 mL/hour • 120 minutes onwards – 75 mL/hour <i>Use 0.2 or 0.22 micron filter</i> <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i>
Day 2		
cetirizine	20 mg	Orally 1 hour prior to amivantamab
acetaminophen	975 mg	Orally 1 hour prior to amivantamab
dexamethasone	10 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to amivantamab <i>*Nursing Alert: amivantamab starts 1 hour after completion of dexamethasone</i>
Wait 1 hour after completion of IV pre-medication(s) before starting amivantamab		
amivantamab	1050 mg	IV in normal saline 250 mL on Day 2 following administration rates below: <ul style="list-style-type: none"> • 0 to 120 minutes – 35 mL/hour • 120 minutes onwards – 50 mL/hour <i>Use 0.2 or 0.22 micron filter</i> <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i>
Day 8		
cetirizine	20 mg	Orally 1 hour prior to amivantamab
acetaminophen	975 mg	Orally 1 hour prior to amivantamab

dexamethasone	10 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to amivantamab <i>*Nursing Alert: amivantamab starts 1 hour after completion of dexamethasone</i>
Wait 1 hour after completion of IV pre-medication(s) before starting amivantamab		
amivantamab	1400 mg	IV in normal saline 250 mL on Day 8 Administer at 65 mL/hour Use 0.2 or 0.22 micron filter <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i>
Day 15		
cetirizine	20 mg	Orally 1 hour prior to amivantamab
acetaminophen	975 mg	Orally 1 hour prior to amivantamab
dexamethasone	10 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to amivantamab <i>*Nursing Alert: amivantamab starts 1 hour after completion of dexamethasone</i>
Wait 1 hour after completion of IV pre-medication(s) before starting amivantamab		
amivantamab	1400 mg	IV in normal saline 250 mL on Day 15 Administer at 85 mL/hour Use 0.2 or 0.22 micron filter <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i>
Day 22		
cetirizine	20 mg	Orally 1 hour prior to amivantamab
acetaminophen	975 mg	Orally 1 hour prior to amivantamab
dexamethasone	10 mg	IV in normal saline 50 mL over 15 minutes 1 hour prior to amivantamab <i>*Nursing Alert: amivantamab starts 1 hour after completion of dexamethasone</i>
Wait 1 hour after completion of IV pre-medication(s) before starting amivantamab		
amivantamab	1400 mg	IV in normal saline 250 mL over 2 hours on Day 22 Administer at 125 mL/hour Use 0.2 or 0.22 micron filter <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i>
Cycle 2 and Onwards		
Days 1 and 15		
cetirizine	20 mg	Orally 1 hour prior to amivantamab
acetaminophen	975 mg	Orally 1 hour prior to amivantamab
dexamethasone	10 mg	ONLY to be given if patient had an infusion-related reaction with a previous amivantamab infusion

		IV in normal saline 50 mL over 15 minutes 1 hour prior to amivantamab <i>*Nursing Alert: amivantamab starts 1 hour after completion of dexamethasone</i>
If applicable, wait 1 hour after completion of IV pre-medication(s) before starting amivantamab		
amivantamab	1400 mg	IV in normal saline 250 mL over 2 hours on Days 1 and 15 Administer at 125 mL/hour <i>Use 0.2 or 0.22 micron filter</i> <i>*Alert: Pharmacy to ensure final volume in bag = 250 mL</i>
*amivantamab dose is based on baseline weight of patient when treatment is ordered. Dose adjustments are not required for subsequent body weight changes		

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

REQUIRED MONITORING

Cycle 1

Day 1

- CBC, serum creatinine, urea, electrolytes, liver enzymes, total bilirubin, albumin and glucose as per Physician Orders

Days 2, 8, 15 and 22

- No blood work required

Cycle 2 and Onwards

Day 1

- CBC, serum creatinine, urea, electrolytes, liver enzymes, total bilirubin, albumin and glucose as per Physician Orders

Day 15

- No blood work required

All Doses

- 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 amivantamab 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
Sunscreen	Broad-spectrum, Minimum SPF 15 (PABA free, zinc oxide or titanium dioxide preferred)	Apply liberally to exposed skin 30 minutes before going outdoors. Reapply every 2 hours and after swimming
Moisturizing lotion	Fragrance-free	Apply topically to face, hands, feet, neck, back and chest daily in the morning on rising and as needed
<i>In the event of an amivantamab-induced skin rash:</i>		
hydrocortisone cream	1%	Apply topically daily at bedtime to face, hands, feet, neck, back and chest as directed by clinic
doxycycline	100 mg	Orally twice daily as directed by clinic

DISCHARGE INSTRUCTIONS

- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge
- Patient should report any ocular symptoms including visual impairment, eye pain or discomfort and light sensitivity
- Patient should be instructed to notify clinic if they develop a skin rash. Sun exposure should be limited during treatment and for two months after the last dose of amivantamab
- Patients should monitor for new or worsening respiratory symptoms (e.g. dyspnea, cough) due to the risk of interstitial lung disease/pneumonitis

ADDITIONAL INFORMATION

- Dose is based on baseline weight of patient when treatment is ordered. Dose adjustments are not required for subsequent body weight changes
- Administration site restrictions are in place for amivantamab
 - Cycle 1, Days 1 and 2 must be administered at CCMB MacCharles in Winnipeg or Western Manitoba Cancer Centre (WMCC) in Brandon
 - Due to short stability, all subsequent doses must be administered at a facility where pharmacy compounding occurs on site