Regimen Reference Order

THOR – nivolumab + ipilimumab (mesothelioma)

ARIA: LUNG – [nivo + ipi (MPM)]

Planned Course: nivolumab (every 2 weeks) and ipilimumab (every 6 weeks) until disease progression or unacceptable toxicity up to a maximum of 2 years (18 cycles) of therapy (1 cycle = 42 days)

Indication for Use: Malignant Pleural Mesothelioma, Unresectable

Drug Alert: Immune Checkpoint Inhibitor (nivolumab and ipilimumab)

CVAD: At Provider's Discretion

Proceed with treatment if:

- ANC equal to or greater than 1.5×10^9 /L AND Platelets equal to or greater than 50×10^9 /L
- AST/ALT equal to or less than 3 times the upper limit of normal
- Total bilirubin equal to or less than 1.5 times the upper limit of normal
- Creatinine clearance is equal to or greater than 30 mL/minute
 - Contact Physician if parameters not met

SEQUENCE OF MEDICATION ADMINISTRATION

Pre-treatment Requirements				
Drug	Dose	CCMB Administration Guideline		
	N	ot Applicable		

Treatment Regimen – THOR – nivolumab + ipilimumab (mesothelioma)

Establish primary solution 500 mL of: normal saline				
Drug	Dose	CCMB Administration Guideline		
Day 1				
nivolumab	3 mg/kg	IV in normal saline 100 mL over 30 minutes Use 0.2 or 0.22 micron filter *Nursing Alert: After completion of nivolumab infusion, wait 30 minutes before administering ipilimumab *Nursing Alert: Start a new primary infusion line for ipilimumab		
ipilimumab	1 mg/kg	IV in normal saline 50 mL over 30 minutes Use 0.2 or 0.22 micron filter		
Day 15				
nivolumab	3 mg/kg	IV in normal saline 100 mL over 30 minutes Use 0.2 or 0.22 micron filter		



Day 29					
nivolumab	3 mg/kg	IV in normal saline 100 mL over 30 minutes Use 0.2 or 0.22 micron filter			
Maximum nivolumab dose is 240 mg All doses will be automatically rounded that fall within the DSG Approved Dose Bands. See THOR DSG – Dose Banding document for more information					

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

REQUIRED MONITORING

All Cycles

Days 1, 15 and 29

- CBC, serum creatinine, urea, electrolytes, liver enzymes, total bilirubin, albumin and glucose as per Physician Orders
- TSH and Cortisol levels should be checked prior to each ipilimumab dose (Day 1) and at physician's discretion
- Medical oncologist or designate (i.e. family practitioner in oncology) must assess patient for immune-mediated adverse reactions prior to each dose
- 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 nivolumab or ipilimumab. Patient can be discharged from treatment room if stable whether they had a reaction or not

Imaging

• CT chest every 12 weeks as per Physician Orders

Recommended Support Medications				
Drug	Dose	CCMB Administration Guideline		
None required				

DISCHARGE INSTRUCTIONS

- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge
- Confirm that patient has received the CCMB Immune Checkpoint Inhibitor Medical Alert wallet card
- Reinforce to patient the immune-mediated adverse reactions and importance of reporting immediately
- For severe symptoms, the patient should be instructed to go to the nearest emergency room. Oncologist on call should be contacted

ADDITIONAL INFORMATION

- nivolumab and ipilimumab are Immune Checkpoint Inhibitors. Consult with oncologist for immune-mediated adverse reactions; corticosteroids are often indicated
- Administration site restrictions are in place for ipilimumab. ipilimumab should only be administered at a facility where pharmacy compounding occurs on site

