Regimen Reference Order

ESOPH – pembrolizumab + CARBOplatin + fluorouracil

ARIA: ESOPH - [pembro + CARBOplatin + 5FU] ESOPH - [pembro q21d (maintenance)] ESOPH - [pembro q42d (maintenance)]

Planned Course: pembrolizumab + CARBOplatin + fluorouracil every 21 days for 6 cycles, followed by maintenance pembrolizumab: pembrolizumab every 21 days up to 29 cycles or until disease progression or unacceptable toxicity (maximum 2 years of therapy total) OR pembrolizumab every 42 days up to 15 cycles or until disease progression or unacceptable toxicity (maximum 2 years of therapy total)

Indication for Use: Esophageal Cancer/Gastroesophageal Junction Tumor; Metastatic

Drug Alert: Immune Checkpoint Inhibitor (pembrolizumab)

CVAD: Required (Ambulatory Pump)

Proceed with treatment if:

Cycles 1 to 6

- ANC equal to or greater than 1.5×10^9 /L AND Platelets equal to or greater than 100×10^9 /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
- pembrolizumab Maintenance
- 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 are not met

SEQUENCE OF MEDICATION ADMINISTRATION

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



· ·	ution 500 mL of: normal sal	
Drug	Dose	CCMB Administration Guideline
Cycles 1 to 6 – pem	brolizumab + CARBOplati	n + fluorouracil
pembrolizumab	2 mg/kg	IV in normal saline 50 mL over 30 minutes
		Use 0.2 or 0.22 micron filter
aprepitant	125 mg	Orally 1 hour pre-chemotherapy
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
CARBOplatin	AUC 5 mg/mL.min; maximum dose 750 mg (see table below)	IV in D5W 250 mL over 30 minutes
fluorouracil	4000 mg/m ²	IV in D5W continuously over 96 hours by ambulatory infusion device
pembrolizumab Ma	aintenance starts three we	eeks after Cycle 6, Day 1
pembrolizumab Ma	aintenance (Cycles 1 to 29	OR Cycles 1 to 15)
pembrolizumab	2 mg/kg	IV in normal saline 50 mL over 30 minutes
	(every 21 days) OR	Use 0.2 or 0.22 micron filter
	4 mg/kg	IV in normal saline 100 mL over 30 minutes
	(every 42 days)	Use 0.2 or 0.22 micron filter

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, liver enzymes, total bilirubin, albumin, glucose and TSH as per Physician Orders
- Medical oncologist or designate (i.e. family practitioner in oncology) must assess patient for immune-mediated adverse reactions prior to each cycle
- 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 pembrolizumab 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	
pembrolizumab + CARBOplatin + fluorouracil (Cycles 1 to 6)			
aprepitant	80 mg	Orally once daily on Days 2 and 3	
dexamethasone	8 mg	Orally once daily on Days 2 and 3	
metoclopramide	10 – 20 mg	Orally every 4 hours as needed for nausea and vomiting	
pembrolizumab Maintenance			
None required			

DISCHARGE INSTRUCTIONS

All Cycles

- 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

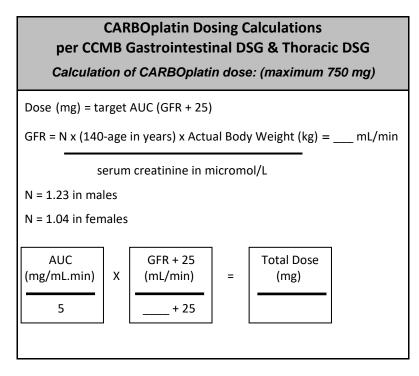
Cycles 1 to 6

- Instruct patient to continue taking anti-emetic(s) at home
- Ensure patient has received a home chemotherapy spill kit and instructions for use
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

ADDITIONAL INFORMATION

- pembrolizumab is an Immune Checkpoint Inhibitor. Consult with oncologist for immune-mediated adverse reactions; corticosteroids are often indicated
- Note: Upon completion of 6 cycles of ESOPH [pembro + CARBOplatin + 5FU], patients should be started on maintenance treatment with ESOPH [pembro q21d (maintenance)] or ESOPH [pembro q42d (maintenance)]
 - **ESOPH [pembro q21d (maintenance)]** or **ESOPH [pembro q42d (maintenance)]** regimen starts <u>three</u> weeks after Cycle 6, Day 1 of **ESOPH - [pembro + CARBOplatin + 5FU]**
- CARBOplatin dose considerations:
 - o CCMB Gastrointestinal DSG and Thoracic DSG use actual body weight to calculate GFR
 - CCMB Gastrointestinal DSG and Thoracic DSG use a maximum CARBOplatin dose of 750 mg for this regimen
 - If calculated CARBOplatin dose differs more than 10% from prescribed CARBOplatin dose, contact the prescriber





AUC = Area Under Curve

The estimated creatinine clearance is based on limited evidence. Sound clinical judgment and interpretation of the estimation are required, because the equation above may not be appropriate for some patient populations (for example, acute renal failure).

