Regimen Reference Order – ESOPH – pembrolizumab + FOLFOX-6

ARIA: ESOPH - [pembrolizumab + FOLFOX-6] ESOPH - [pembro q21d (maintenance)] ESOPH - [pembro q42d (maintenance)]

Planned Course:FOLFOX every 14 days for 9 cycles with pembrolizumab every 42 days,
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)
See Appendix (page 5) for regimen Dosing Schema

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

Drug Alert: Immune Checkpoint Inhibitor (pembrolizumab)

CVAD: Required (Ambulatory Pump)

Proceed with treatment if:

FOLFOX

• ANC equal to or greater than 1.5 x $10^9/L$ AND Platelets equal to or greater than $100 \times 10^9/L$ pembrolizumab

- 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						
	Ν	ot Applicable						



Drug	Dose	CCMB Administration Guideline
Cycles 1, 4 and 7 –	pembrolizumab + FOLF	OX
pembrolizumab	4 mg/kg	IV in normal saline 100 mL over 30 minutes Use 0.2 or 0.22 micron filter
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
oxaliplatin	85 mg/m ²	IV in D5W 500 mL over 2 hours *Nursing Alert: oxaliplatin and leucovorin may be infused over the same 2-hour period using a Y-site connector
leucovorin	400 mg/m ²	IV in D5W 500 mL over 2 hours
fluorouracil	400 mg/m ²	IV Push over 5 minutes
fluorouracil	2400 mg/m ²	IV in D5W continuously over 46 hours by ambulatory infusion device
Cycles 2, 3, 5, 6, 8 a	and 9 – FOLFOX	
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
oxaliplatin	85 mg/m ²	IV in D5W 500 mL over 2 hours *Nursing Alert: oxaliplatin and leucovorin may be infused over the same 2-hour period using a Y-site connector
leucovorin	400 mg/m ²	IV in D5W 500 mL over 2 hours
fluorouracil	400 mg/m ²	IV Push over 5 minutes
fluorouracil	2400 mg/m ²	IV in D5W continuously over 46 hours by ambulatory infusion device
pembrolizumab Ma	aintenance starts two v	weeks after Cycle 9, Day 1
pembrolizumab Ma	aintenance (Cycles 1 to	29 OR Cycles 1 to 15)
pembrolizumab	2 mg/kg (every 21 days) OR	IV in normal saline 50 mL over 30 minutes Use 0.2 or 0.22 micron filter
	4 mg/kg (every 42 days)	IV in normal saline 100 mL over 30 minutes 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 and glucose as per Physician Orders
- TSH once monthly 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 dose of pembrolizumab
- 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 + F	OLFOX-6 (Cycles 1 to 9)						
dexamethasone	8 mg	Orally once daily on Days 2 and 3					
prochlorperazine	10 mg	Orally every 6 hours as needed for nausea and vomiting					
pembrolizumab Ma	aintenance						
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 9

- 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
- Numerous dosing variations exist for FOLFOX and depend on the primary cancer diagnosis
- oxaliplatin causes cold intolerance and laryngopharyngeal dysesthesia
 - o no ice chips or cold drinks
- oxaliplatin may cause progressive, irreversible neuropathy
 - dose modification may be required
- Note: upon completion of 9 cycles of ESOPH [pembrolizumab + FOLFOX-6], 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 two weeks after Cycle 9, Day 1 of ESOPH - [pembrolizumab + FOLFOX-6]



Updated: February 28, 2023

Appendix Dosing Schema

ESOPH - [pembrolizumab + FOLFOX-6] - Cycles 1 to 9 (14-day cycle)

		Cycle 1			Cycle 2			Cycle 3			Cycle 4	ļ		Cycle 5			Cycle 6	
	Day	1	8															
pembrolizumab																		
FOLFOX																		

	Cycle 7				Cycle 8		Cycle 9			
	Day	1	8	Day	1	8	Day	1	8	
pembrolizumab										
FOLFOX										

Starting 14 days after Cycle 9, Day 1 of ESOPH - [pembrolizumab + FOLFOX-6]:

ESOPH - [pembro q21d (maintenance)]

	(
	Day	1	8	15	OR
pembrolizumab					

Key:

Indicates that *pembrolizumab* will be administered on this day

Indicates that chemotherapy will be administered on this day

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ESOPH - [pembro q42d (maintenance)]

	Cycles 1 to 15 (42-day cycle)									
	Day 1 8 15 22 29 36									
pembrolizumab										

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