Regimen Reference Order

H&N – pembrolizumab + CARBOplatin + fluorouracil

ARIA: H&N - [pembro + CARBO + fluorouracil]

H&N - [pembro q 21 d (maintenance)]

H&N - [pembro q 42 d (maintenance)]

Planned Course: pembrolizumab + CARBOplatin + fluorouracil every 21 days for 6 cycles,

followed by pembrolizumab every 21 days up to 29 cycles or

until disease progression or unacceptable toxicity

(maximum 2 years of therapy)

OR

pembrolizumab + CARBOplatin + fluorouracil every 21 days for 6 cycles,

followed by pembrolizumab every 42 days up to 15 cycles or

until disease progression or unacceptable toxicity

(maximum 2 years of therapy)

Indication for Use: Squamous Cell Cancer of Head and Neck, Advanced/Recurrent

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 x $10^9/L$ AND Platelets equal to or greater than $100 \times 10^9/L$
- 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 $1.5 \times 10^9/L$ AND Platelets equal to or greater than $50 \times 10^9/L$
- 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		
Not Applicable					



Drug	Dose	CCMB Administration Guideline			
pembrolizumab + CARBOplatin + fluorouracil (Cycles 1 to 6)					
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 (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, 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 (Cycles 1 to 29 OR Cycles 1 to 15)					
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

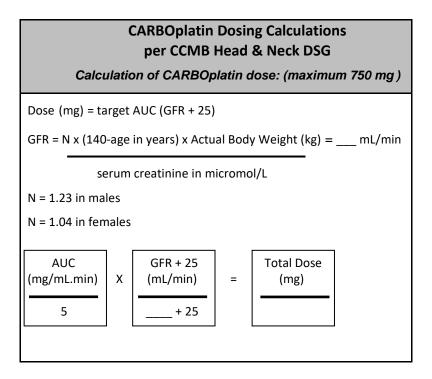
Cycles 1 to 6

- 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
- Upon completion of 6 cycles of H&N [pembro + CARBO + fluorouracil], patients should be started on maintenance treatment with H&N - [pembro q 21 d (maintenance)] or H&N - [pembro q 42 d (maintenance)]
 - H&N [pembro q 21 d (maintenance)] or H&N [pembro q 42 d (maintenance)] regimen starts three weeks after completing H&N - [pembro + CARBO + fluorouracil]
- CARBOplatin dose considerations:
 - o CCMB Head & Neck DSG uses actual body weight to calculate GFR
 - o CCMB Head & Neck DSG uses 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).

