Regimen Reference Order

H&N – pembrolizumab + CISplatin + fluorouracil

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

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

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

Planned Course: pembrolizumab + CISplatin + 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 + CISplatin + 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 greater than 45 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					
8	Dose	CCMB Administration Guideline			
pembrolizumab + CISplatin + 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			
magnesium sulfate	2 g	IV in normal saline 1000 mL over 2 hours (Pre hydration)			
aprepitant	125 mg	Orally 1 hour pre-chemotherapy			
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy			
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy			
OLANZapine	2.5 mg	Orally 30 minutes pre-chemotherapy			
CISplatin	100 mg/m ²	IV in normal saline 500 mL over 1 hour *Alert: CISplatin infusion must be complete prior to mannitol administration			
mannitol	12.5 g	IV in normal saline 1000 mL over 2 hours (Post hydration)			
fluorouracil	4000 mg/m ²	IV in D5W continuously over 96 hours by ambulatory infusion device			
pembrolizumab Maint	enance (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



Cycles 1 to 6 Only

• Baseline blood pressure prior to magnesium infusion and repeat 15 minutes after start of magnesium infusion

Recommended Support Medications					
Drug	Dose	CCMB Administration Guideline			
pembrolizumab + CISplatin + 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, 3 and 4			
OLANZapine	2.5 mg	Orally the evening of Day 1 then twice daily on Days 2, 3 and 4. Also use OLANZapine 2.5 to 5 mg AS NEEDED for breakthrough nausea and vomiting (including Days 1 to 4) up to a maximum of 10 mg per day. Contact clinic if nausea/vomiting is not adequately controlled			
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
- CISplatin is ototoxic and nephrotoxic
- · CISplatin can cause hypomagnesemia
- Upon completion of 6 cycles of **H&N** [pembro + CIS + 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 + CIS + fluorouracil]

