Regimen Reference Order – H&N – cetuximab + fluorouracil + CISplatin

H&N – [cetux+5-FU+CISplatin]

Planned Course: Every 21 days for 6 cycles

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

CVAD: Required (Ambulatory Pump)

Proceed with treatment if:

Day 1 ONLY:

- ANC equal to or greater than 1.5 x $10^9/L$ AND Platelets equal to or greater than $100 \times 10^9/L$
- Creatinine clearance greater than 45 mL/minute
 - Contact Physician if parameters not met

SEQUENCE OF MEDICATION ADMINISTRATION

 Pre-treatment Requirements					
Drug	Dose	CCMB Administration Guideline			
Not Applicable					

Treatment Regimen – H&N - cetuximab + fluorouracil + CISplatin					
Establish primary solution 500 mL of: normal saline					
Drug	Dose	CCMB Administration Guideline			
Cycle 1					
Day 1					
dexamethasone	12 mg	IV in normal saline 50 mL over 15 minutes			
diphenhydrAMINE	50 mg	IV in normal saline 50 mL over 15 minutes			
Wait 30 minutes after completion of IV pre-medications before starting cetuximab					
cetuximab	400 mg/m ² Loading Dose	IV over 2 hours (administered undiluted) Doses greater than 1200 mg must be administered over 2.5 hours Use 0.2 or 0.22 micron filter *Alert: Pharmacy to ensure final volume on label *Nursing Alert: IV tubing is primed with cetuximab *Nursing Alert: magnesium infusion starts after observation period is complete			
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			
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
Days 2 and 3		
normal saline	1000 mL	IV over 2 hours
Day 8		
dexamethasone	8 mg	IV in normal saline 50 mL over 15 minutes
diphenhydrAMINE	50 mg	IV in normal saline 50 mL over 15 minutes
Wait 30 minutes after	completion of IV pre-med	lications before starting cetuximab
cetuximab	250 mg/m ²	IV over 1 hour (administered undiluted) Doses greater than 600 mg must be infused over 2 hours Use 0.2 or 0.22 micron filter *Alert: Pharmacy to ensure final volume on label *Nursing Alert: IV tubing is primed with cetuximab
Day 15		
cetirizine	10 mg	Orally 30 minutes prior to cetuximab
dexamethasone	8 mg	IV in normal saline 50 mL over 15 minutes
Wait 30 minutes after	completion of IV pre-med	lications before starting cetuximab
cetuximab	250 mg/m ²	IV over 1 hour (administered undiluted) Doses greater than 600 mg must be infused over 2 hours Use 0.2 or 0.22 micron filter *Alert: Pharmacy to ensure final volume on label *Nursing Alert: IV tubing is primed with cetuximab
Cycles 2 to 6		
Day 1		
cetirizine	10 mg	Orally 30 minutes prior to cetuximab
dexamethasone	12 mg	IV in normal saline 50 mL over 15 minutes
Wait 30 minutes after	completion of IV pre-med	lications before starting cetuximab
cetuximab	250 mg/m ²	IV over 1 hour (administered undiluted) Doses greater than 600 mg must be infused over 2 hours Use 0.2 or 0.22 micron filter *Alert: Pharmacy to ensure final volume on label *Nursing Alert: IV tubing is primed with cetuximab



aprepitant	125 mg	Orally 1 hour pre-chemotherapy		
ondansetron	16 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		
Days 2 and 3				
normal saline	1000 mL	IV over 2 hours		
Days 8 and 15				
cetirizine	10 mg	Orally 30 minutes prior to cetuximab		
dexamethasone	8 mg	IV in normal saline 50 mL over 15 minutes		
Wait 30 minutes after	completion of IV pre-me	dications before starting cetuximab		
cetuximab	250 mg/m ²	IV over 1 hour (administered undiluted) Doses greater than 600 mg must be infused over 2 hours Use 0.2 or 0.22 micron filter *Alert: Pharmacy to ensure final volume on label *Nursing Alert: IV tubing is primed with cetuximab		

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

REQUIRED MONITORING

All Doses

· Clinical assessment of cetuximab-related skin toxicity

Doses 1 and 2 (cetuximab)

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O₂ saturation) at baseline, after one-hour observation and as clinically indicated
- Observe patient for 1 hour after cetuximab infusion (before the start of magnesium for Dose 1)

Dose 3 and Onwards (cetuximab)

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O2 saturation) at baseline and as clinically indicated
- For patients with no prior reactions to cetuximab, no observation period is required after cetuximab administration. Patient can be discharged from treatment room if stable whether they had a reaction or not
- For patients who have had a previous reaction to cetuximab, observe patient for one hour after cetuximab infusion. Full vital signs after one-hour observation

All Cycles

Day 1

- CBC, biochemistry, serum creatinine, urea, liver enzymes, magnesium, calcium and albumin as per Physician Orders
- Baseline blood pressure prior to magnesium infusion and repeat 15 minutes after start of magnesium infusion

Days 8 and 15

· No blood work required

Recommended Support Medications					
Drug	Dose	CCMB Administration Guideline			
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 maximum of 10 mg per day. Contact clinic if nausea/vomiting is not adequately controlled			
Sunscreen	Minimum SPF 15 (PABA free, zinc oxide or titanium dioxide preferred)	Apply topically a broad-spectrum sunscreen liberally 30 minutes before going outdoors. Reapply every 2 hours and after swimming			
Moisturizing lotion	Fragrance-free	Apply topically to face, hands, feet, neck, back and chest daily in the morning on rising and <u>as needed</u>			
In the event of a cetuximab-induced skin rash:					
doxycycline	100 mg	Orally twice daily as directed by clinic			
hydrocortisone cream	1%	Apply topically daily at bedtime to face, hands, feet, neck, back and chest as directed by clinic			



DISCHARGE INSTRUCTIONS

- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge
- Warn patients of the possibility of a late onset reaction to cetuximab as reactions may occur several hours after infusion or with subsequent infusions
- Instruct patient to continue taking anti-emetic(s) at home and use Recommended Support Medications
- 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

- CISplatin is ototoxic and nephrotoxic
- CISplatin can cause hypomagnesemia
- cetuximab can cause hypomagnesemia
- · cetuximab causes dermatological and nail changes
- cetuximab can cause interstitial lung disease, pneumonitis and exacerbation of pre-existing fibrotic lung disease
- Administration site restrictions are in place for cetuximab. Dose 1 of cetuximab should only be administered at CCMB MacCharles or Tache in Winnipeg

