

## Regimen Reference Order – GAST – cetuximab + irinotecan

ARIA: GAST - [cetuximab + irinotecan]

Planned Course: Every 14 days until disease progression or unacceptable toxicity

Indication for Use: Colorectal Cancer Metastatic

CVAD: At Provider's Discretion

### **Proceed with treatment if:**

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

❖ Contact Physician if parameters not met

### SEQUENCE OF MEDICATION ADMINISTRATION

#### Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
Not Applicable		

#### Treatment Regimen – GAST – cetuximab + irinotecan

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
<b>Cycles 1 and 2</b>		
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	8 mg	IV in normal saline 50 mL over 15 minutes
diphenhydrAMINE	50 mg	IV in normal saline 50 mL over 15 minutes
<b>Wait 30 minutes after completion of IV pre-medication(s) before starting cetuximab</b>		
cetuximab	500 mg/m <sup>2</sup>	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 <i>*Alert: Pharmacy to ensure final volume on label</i> <i>*Nursing Alert: IV tubing is primed with cetuximab</i> <i>*Nursing Alert: irinotecan infusion starts after observation period is complete</i>
atropine	0.6 mg	IV Push over 2 – 3 minutes pre-irinotecan May be repeated once if diarrhea occurs during irinotecan infusion
irinotecan	180 mg/m <sup>2</sup>	IV in D5W 500 mL over 90 minutes
<b>Cycle 3 and onwards</b>		
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy

cetirizine	10 mg	Orally 30 minutes prior to cetuximab
dexamethasone	8 mg	IV in normal saline 50 mL over 15 minutes
<b>Wait 30 minutes after completion of IV pre-medication(s) before starting cetuximab</b>		
cetuximab	500 mg/m <sup>2</sup>	IV over 2 hours (administered undiluted) Doses greater than 1200 mg must be administered over 2.5 hours <i>Use 0.2 or 0.22 micron filter</i> <i>*Alert: Pharmacy to ensure final volume on label</i> <i>*Nursing Alert: IV tubing is primed with cetuximab</i>
atropine	0.6 mg	IV Push over 2 – 3 minutes pre-irinotecan May be repeated once if diarrhea occurs during irinotecan infusion
irinotecan	180 mg/m <sup>2</sup>	IV in D5W 500 mL over 90 minutes
All doses will be automatically rounded that fall within CCMB Approved Dose Bands. See Dose Banding document for more information		

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

## REQUIRED MONITORING

### All Doses

- Clinical assessment for cetuximab-related skin toxicity

### Doses 1 and 2 (cetuximab)

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O<sub>2</sub> saturation) at baseline, after 1-hour observation and as clinically indicated
- Observe patient for 1 hour after cetuximab infusion. Full vital signs prior to discharge

### Dose 3 and Onwards (cetuximab)

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O<sub>2</sub> saturation) at baseline and as clinically indicated
- For patients with no prior reactions to cetuximab, no observation period is required. Patient can be discharged from treatment room if stable
- For patients who have had a previous reaction to cetuximab, observe patient for 1 hour after cetuximab infusion. Full vital signs after 1-hour observation

### All Cycles

- CBC, serum creatinine, urea, liver enzymes, magnesium, calcium and albumin as per Physician Orders

### Recommended Support Medications

Drug	Dose	CCMB Administration Guideline
dexamethasone	8 mg	Orally once daily on Days 2 and 3
prochlorperazine	10 mg	Orally every 6 hours as needed for nausea and vomiting
loperamide	2 – 4 mg	Orally as directed below
Sunscreen	Broad-spectrum, Minimum SPF 15 (PABA free, zinc oxide or titanium dioxide preferred)	Apply liberally to exposed skin 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 <b>as needed</b>
<b><i>In the event of a cetuximab-induced skin rash:</i></b>		
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

- Warn patients of the possibility of a late onset reaction to cetuximab as reactions may occur several hours after infusion or with subsequent infusions
- Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge
- Instruct patient to continue taking anti-emetic(s) and to use recommended support medications at home
- If diarrhea occurs within 24 hours of irinotecan administration:
  - Return to cancer care clinic or go to the emergency department. A second dose of intravenous atropine may be required
- If cramping or diarrhea occurs more than 24 hours after irinotecan administration:
  - Take loperamide 4 mg (two 2 mg tablets) orally STAT; then
  - During the day: take 2 mg (one 2 mg tablet) orally every 2 hours
  - During the night: take 4 mg (two 2 mg tablets) orally at bedtime and then every 4 hours until morning
  - STOP loperamide once no bowel movement has occurred (e.g. diarrhea-free) for 12 hours
  - If diarrhea has not stopped despite taking **12 tablets (24 mg) of loperamide over a 24 hour period**, please contact your clinic for further instructions. If this occurs after clinic hours, please call the Medical Oncologist on-call and/or report to the nearest emergency room/urgent care centre. Please note that 24 mg per 24 hours is higher than the usual “over the counter” dose for loperamide.
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

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**ADDITIONAL INFORMATION**

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- Nurse to provide patient with 30 tablet supply of loperamide 2 mg, labelled by Pharmacy, to take home with Cycle 1
- cetuximab causes dermatological and nail changes
- cetuximab can cause interstitial lung disease, pneumonitis and exacerbation of pre-existing fibrotic lung disease
- cetuximab can cause hypomagnesemia
- Administration site restrictions are in place for cetuximab. Dose 1 of cetuximab should only be administered at CCMB MacCharles or Tache in Winnipeg