

## Regimen Reference Order

### GAST – mFOLFOX6 Pre- and Post-CRT (Rectal)

ARIA: GAST - [mFOLFOX6 Pre/Post-CRT]

**Planned Course:** Pre-Concurrent Chemoradiation (Pre-CRT) Phase: mFOLFOX6 every 14 days for 4 cycles, followed by:  
Concurrent Chemoradiation (CRT) Phase: fluorouracil with radiation (25 fractions of radiation over 5 to 6 weeks), followed by:  
Post-Concurrent Chemoradiation (Post-CRT) Phase: mFOLFOX6 every 14 days for 4 cycles

**Indication for Use:** Rectal Cancer; Chemotherapy Pre- and Post-Concurrent Chemoradiation

**CVAD:** Required (Ambulatory Pump)

**Proceed with treatment if:**

**ANC equal to or greater than  $1.5 \times 10^9/L$  AND Platelets equal to or greater than  $75 \times 10^9/L$**

❖ **Contact Physician if parameters are not met**

### SEQUENCE OF MEDICATION ADMINISTRATION

#### Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
Not Applicable		

#### Treatment Regimen – GAST – mFOLFOX6 Pre- and Post-CRT (Rectal)

**Pre-CRT Phase – mFOLFOX6 every 14 days for 4 cycles**

**Establish primary solution 500 mL of: D5W**

Drug	Dose	CCMB Administration Guideline
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
oxaliplatin	$85 \text{ mg/m}^2$	IV in D5W 500 mL over 2 hours <i>*Nursing Alert: oxaliplatin and leucovorin may be infused over the same 2-hour period using a Y-site connector</i>
leucovorin	$400 \text{ mg/m}^2$	IV in D5W 500 mL over 2 hours
fluorouracil	$400 \text{ mg/m}^2$	IV Push over 5 minutes
fluorouracil	$2400 \text{ mg/m}^2$	IV in D5W continuously over 46 hours by ambulatory infusion device

Concurrent Chemoradiation (CRT) Phase – fluorouracil with radiation		
Drug	Dose	CCMB Administration Guideline
fluorouracil	200 mg/m <sup>2</sup> /day	IV in D5W continuously by ambulatory infusion device. Start infusion on first day of radiation and continue until last day of radiation (25 fractions of radiation over 5 to 6 weeks) <i>*Alert: Change ambulatory infusion device once every 7 days (i.e. 1400 mg/m<sup>2</sup> over 168 hours) throughout radiation</i>
Post-CRT Phase – mFOLFOX6 every 14 days for 4 cycles		
Establish primary solution 500 mL of: D5W		
Drug	Dose	CCMB Administration Guideline
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
oxaliplatin	85 mg/m <sup>2</sup>	IV in D5W 500 mL over 2 hours <i>*Nursing Alert: oxaliplatin and leucovorin may be infused over the same 2-hour period using a Y-site connector</i>
leucovorin	400 mg/m <sup>2</sup>	IV in D5W 500 mL over 2 hours
fluorouracil	400 mg/m <sup>2</sup>	IV Push over 5 minutes
fluorouracil	2400 mg/m <sup>2</sup>	IV in D5W continuously over 46 hours by ambulatory infusion device
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

### mFOLFOX6 (Pre- and Post-CRT Phases)

All Cycles

- CBC, serum creatinine, urea, electrolytes, liver enzymes and total bilirubin as per Physician Orders

### fluorouracil with radiation (Concurrent Chemoradiation (CRT) Phase)

Prior to start of radiation

- CBC, serum creatinine, urea, electrolytes, liver enzymes and total bilirubin as per Physician Orders

During radiation

- CBC once weekly as per Physician Orders

## Recommended Support Medications – GAST – mFOLFOX6 Pre- and Post-CRT (Rectal)

### Pre- and Post-CRT Phases – mFOLFOX6

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

### Concurrent Chemoradiation (CRT) Phase – fluorouracil with radiation

prochlorperazine	10 mg	Orally every 6 hours as needed for nausea and vomiting
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## DISCHARGE INSTRUCTIONS

### All Treatment Phases

- Ensure patient has received a home chemotherapy spill kit and instruction for use
- Instruct patient to continue taking anti-emetic(s) at home
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

## ADDITIONAL INFORMATION

### mFOLFOX6 (Pre-CRT Phase)

- oxaliplatin causes cold intolerance and laryngopharyngeal dysesthesia
  - no ice chips or cold drinks
- oxaliplatin may cause progressive, irreversible neuropathy
  - dose modification may be required
- In the ARIA regimen **GAST - [mFOLFOX6 Pre/Post-CRT]**, the four cycles of mFOLFOX6 administered pre-CRT are built as **“Cycles #1 to 4”**

### fluorouracil with radiation (Concurrent Chemoradiation (CRT) Phase)

- Concurrent Chemoradiation (CRT) usually starts 2 to 3 weeks after Cycle 4, Day 1 of mFOLFOX6 (Pre-CRT Phase)
- fluorouracil should start on the first day of radiation and continue until the last day of radiation (including weekends and holidays when radiation is not administered)
  - If weekly fluorouracil pump supply will extend beyond the last day of radiation, fluorouracil pump can be disconnected on the last day of radiation
  - If prescribed duration of fluorouracil does not match the radiation schedule (e.g. drug duration will end too soon), contact medical oncologist to discuss whether a prescription to extend drug therapy is appropriate
- In the ARIA regimen **GAST - [mFOLFOX6 Pre/Post-CRT]**, fluorouracil for administration with radiation (CRT Phase) is built as **“Cycle #5”**
- Since treatment is given concurrently with radiation, site restrictions are in place

### mFOLFOX6 (Post-CRT Phase)

- mFOLFOX6 usually starts 2 to 4 weeks following completion of concurrent chemoradiation
- oxaliplatin causes cold intolerance and laryngopharyngeal dysesthesia
  - no ice chips or cold drinks
- oxaliplatin may cause progressive, irreversible neuropathy
  - dose modification may be required
- In the ARIA regimen **GAST - [mFOLFOX6 Pre/Post-CRT]**, the four cycles of mFOLFOX6 administered post-CRT are built as **“Cycles #6 to 9”**. As this regimen is built as a 14-day cycle, the start date of **“Cycle 6”** will require manual adjustment