# Regimen Reference Order

## **GAST – CARBOplatin + gemcitabine (biliary tract)**

ARIA: GAST - [CARBO + gemcitabine]

Planned Course: Every 21 days for 8 cycles

Indication for Use: Biliary Tract Cancer; Unresectable or 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		

Establish primary solution 500 mL of: normal saline			
Drug	Dose	CCMB Administration Guideline	
Day 1			
aprepitant	125 mg	Orally 1 hour pre-chemotherapy	
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy	
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy	
gemcitabine	1000 mg/m <sup>2</sup>	IV in normal saline 250 mL over 30 minutes	
CARBOplatin	AUC 5 mg/mL.min; maximum dose 750 mg (see table below)	IV in D5W 250 mL over 30 minutes	
Day 8			
dexamethasone	8 mg	Orally 30 minutes pre-chemotherapy	
gemcitabine	1000 mg/m <sup>2</sup>	IV in normal saline 250 mL over 30 minutes	

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



## **REQUIRED MONITORING**

#### All Cycles

#### Day 1

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

#### Day 8

• CBC as per Physician Orders

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 and 3	
metoclopramide	10 – 20 mg	Orally every 4 hours as needed for nausea and vomiting	

## **DISCHARGE INSTRUCTIONS**

- 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**

- CARBOplatin dosing considerations:
  - o CCMB Gastrointestinal DSG uses actual body weight to calculate GFR
  - o CCMB Gastrointestinal 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



## **CARBOplatin Dosing Calculations** per CCMB Gastrointestinal DSG Calculation of CARBOplatin dose: (maximum 750 mg) Dose (mg) = target AUC (GFR + 25) GFR = N x (140-age in years) x Actual Body Weight (kg) = \_\_\_\_ mL/min serum creatinine in micromol/L N = 1.23 in males N = 1.04 in females **AUC** GFR + 25 **Total Dose** (mg/mL.min) Χ (mL/min) = (mg) 5 + 25

#### 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)

