ADULT Updated: July 26, 2023

Regimen Reference Order - BRST - gemcitabine + CARBOplatin

ARIA: - BRST - [gemcitabine + CARBOplatin]

Planned Course: Every 21 days until disease progression or unacceptable toxicity

Indication for Use: Breast Cancer Metastatic or Recurrent

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	750 mg/m ²	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	750 mg/m ²	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 and as per Physician Orders

Day 8

CBC

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 Breast DSG uses actual body weight to calculate GFR
 - o CCMB Breast DSG uses a maximum CARBOplatin dose of 750 mg for this regimen
 - o If calculated CARBOplatin differs more than 10% from prescribed CARBOplatin dose, contact the prescriber



CARBOplatin Dosing Calculations per CCMB Breast 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 umol/L N = 1.23 in males N = 1.04 in females GFR + 25 **Total Dose** AUC (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).

