

## Regimen Reference Order – BRST – DOCetaxel + CARBOplatin

ARIA: - BRST – [DOCetaxel + 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
dexamethasone	8 mg	Orally twice daily the day before DOCetaxel treatment and one dose the morning of DOCetaxel treatment (Self-administered at home)

#### Treatment Regimen – BRST – DOCetaxel + CARBOplatin

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
<b>Day 1</b>		
aprepitant	125 mg	Orally 1 hour pre-chemotherapy
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	4 mg	Orally 30 minutes pre-chemotherapy <i>*Nursing Alert: this dose is in addition to the 8 mg self-administered dose taken at home morning of Day 1</i>
DOCetaxel	$75 \text{ mg/m}^2$	IV in normal saline 250 mL over 1 hour <i>Use non-DEHP bags and non-DEHP administration sets</i>
normal saline	100 mL	ONLY for patients with a PORT IV over 12 minutes <i>*Nursing Alert: This volume is to be administered after standard flush</i>
CARBOplatin	AUC 6 mg/mL.min; maximum dose 900 mg (see table below))	IV in D5W 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

- CBC, serum creatinine, urea, liver enzymes, total bilirubin and electrolytes as per Physician Orders
- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O<sub>2</sub> saturation) at baseline and as clinically indicated
- No observation period is required after DOCETaxel administration. Patient can be discharged from treatment room if stable whether they had a reaction or not

### 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

- Patient 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) 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:
  - CCMB Breast DSG uses **actual body weight** to calculate GFR
  - CCMB Breast DSG uses a maximum CARBOplatin dose of 900 mg for this regimen
  - If calculated CARBOplatin differs **more than 10%** from prescribed CARBOplatin dose, contact the prescriber

<b>CARBOplatin Dosing Calculations per CCMB Breast DSG</b>										
<i>Calculation of CARBOplatin dose: (maximum 900 mg)</i>										
Dose (mg) = target AUC (GFR + 25)										
$\text{GFR} = \frac{N \times (140 - \text{age in years}) \times \text{Actual Body Weight (kg)}}{\text{serum creatinine in } \mu\text{mol/L}} = \text{___ mL/min}$										
N = 1.23 in males N = 1.04 in females										
<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">AUC (mg/mL.min)</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: center; padding: 5px;">6</td> </tr> </table>	AUC (mg/mL.min)	6	X	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">GFR + 25 (mL/min)</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: center; padding: 5px;">___ + 25</td> </tr> </table>	GFR + 25 (mL/min)	___ + 25	=	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Total Dose (mg)</td> </tr> <tr> <td style="border-top: 1px solid black; text-align: center; padding: 5px;"> </td> </tr> </table>	Total Dose (mg)	
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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)*