

## Regimen Reference Order – BRST – AC + PACLitaxel

ARIA: BRST - [AC + q 7 days PACLitaxel]

**Planned Course:** AC every 21 days for 4 cycles, followed by PACLitaxel every week for 12 weeks  
(1 cycle = 21 days)

**Indication for Use:** Breast Cancer Adjuvant or Neo-Adjuvant

**CVAD:** Preferred (VESICANT INVOLVED)

### Proceed with treatment if:

#### Cycles 1 to 4 (AC)

- ANC equal to or greater than  $1 \times 10^9/L$  AND Platelets equal to or greater than  $100 \times 10^9/L$
- Creatinine clearance greater than 10 mL/minute
- Bilirubin less than upper limit of normal
- AST/ALT less than 2 times upper limit of normal

#### Cycles 5 to 8 (PACLitaxel)

- ANC equal to or greater than  $1 \times 10^9/L$  AND Platelets equal to or greater than  $100 \times 10^9/L$
- Bilirubin less than 1.25 times upper limit of normal
- AST/ALT less than 10 times upper limit of normal
- ❖ Contact Physician if parameters not met

## SEQUENCE OF MEDICATION ADMINISTRATION

### Pre-treatment Requirements

Drug	Dose	CCMB Administration Guideline
<b>Cycles 1 to 4 (AC)</b>		
Instruct patient to start vigorous oral pre-hydration (600 – 900 mL) the morning of cyclophosphamide treatment (Self-administered at home)		

### Treatment Regimen – BRST – AC + PACLitaxel

Establish primary solution 500 mL of: normal saline		
Drug	Dose	CCMB Administration Guideline
<b>Cycles 1 to 4 – AC</b>		
aprepitant	125 mg	Orally 1 hour pre-chemotherapy
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
OLANzapine	2.5 mg	Orally 30 minutes pre-chemotherapy
DOXOrubicin	$60 \text{ mg/m}^2$	IV Push over 10 to 15 minutes
cyclophosphamide	$600 \text{ mg/m}^2$	IV in normal saline 250 mL over 1 hour

Cycles 5 to 8 – PACLitaxel		
Days 1, 8 and 15		
cetirizine	20 mg	Orally 1 hour prior to PACLitaxel
dexamethasone	20 mg	IV in normal saline 50 mL over 15 minutes <b>1 hour</b> prior to PACLitaxel <i>*Nursing Alert: PACLitaxel starts 1 hour after completion of dexamethasone infusion</i>
<b>Wait 1 hour after completion of IV pre-medication(s) before starting PACLitaxel</b>		
PACLitaxel	80 mg/m <sup>2</sup>	IV in normal saline 250 mL over 1 hour, following the administration rates below: <ul style="list-style-type: none"> <li>Administer at 100 mL/hour for 15 minutes, then</li> <li>Administer remaining volume over 45 minutes</li> </ul> <i>Use non-DEHP bags and non-DEHP administration sets with 0.2 or 0.22 micron filter</i> <i>*Nursing Alert: Gently invert bag 8 to 10 times immediately prior to administration of PACLitaxel to evenly distribute the drug</i>

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

## REQUIRED MONITORING

### Cycles 1 to 4 (AC)

- CBC and biochemistry as per Physician Orders
- Left Ventricular Ejection Fraction (LVEF) monitoring is recommended at baseline and as clinically indicated

### Cycles 5 to 8 (PACLitaxel)

#### Day 1

- CBC and liver enzymes 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 required after PACLitaxel administration. Patient can be discharged from treatment room if stable whether they had a reaction or not

#### Days 8 and 15

- CBC 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 required after PACLitaxel 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
<b>Cycles 1 to 4 – AC</b>		
aprepitant	80 mg	Orally on Days 2 and 3
dexamethasone	8 mg	Orally once daily on Days 2, 3 and 4
OLANzapine	2.5 mg	Orally the evening of Day 1 then twice daily on Days 2, 3 and 4. Also use OLANzapine 2.5 to 5 mg AS NEEDED for breakthrough nausea and vomiting (including Days 1 to 4) up to maximum of 10 mg per day. Contact clinic if nausea/vomiting is not adequately controlled
<b>Cycles 5 to 8 – PACLitaxel</b>		
metoclopramide	10 – 20 mg	Orally every 4 hours as needed for nausea and vomiting

## DISCHARGE INSTRUCTIONS

### Cycles 1 to 4 (AC)

- Instruct patient to:
  - Continue taking anti-emetic(s) at home. Patients should be instructed not to use olanzapine and metoclopramide concurrently due to drug interactions
  - Maintain oral intake of 2000 mL (8 glasses) of fluid daily at home
  - Empty bladder every 2 hours while awake and at bedtime for 24 hours after each dose of cyclophosphamide
  - Obtain immediate assistance as per your clinic's contact instructions if:
    - Symptoms of hemorrhagic cystitis (e.g. dysuria, hematuria)
    - Unable to drink recommended amount of fluid
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

### Cycle 5 to 8 (PACLitaxel)

- 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) at home
- Reinforce applicable safe handling precautions of medications, blood and body fluids for 48 hours after completion of chemotherapy

## ADDITIONAL INFORMATION

- PACLitaxel may cause progressive, irreversible neuropathy
- Cumulative DOXOrubicin dose should be calculated and should not exceed 360 mg/m<sup>2</sup>. If exceeding 360 mg/m<sup>2</sup>, consideration to adding dexrazoxane should be given if patient is benefiting from DOXOrubicin therapy