

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:

ANC equal to or greater than $1 \times 10^9/L$ AND Platelets equal to or greater than $100 \times 10^9/L$

Cycles 1 - 4:

- Creatinine clearance greater than 10 mL/min
- Bilirubin less than upper limit of normal
- AST, ALT less than 2 times upper limit of normal

Cycles 5 - 8:

- 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
Not Applicable		

Treatment Regimen – BRST – AC + PACLitaxel

Establish primary solution 500 mL of: normal saline

Drug	Dose	CCMB Administration Guideline
Cycles 1 to 4 - AC		
aprepitant	125 mg	Orally 1 hour pre-chemotherapy
ondansetron	16 mg	Orally 30 minutes pre-chemotherapy
dexamethasone	12 mg	Orally 30 minutes pre-chemotherapy
DOXOrubicin	60 mg/m^2	IV Push over 10-15 minutes
cyclophosphamide	600 mg/m^2	IV in normal saline 250 mL over 1 hour

Cycles 5 to 8 – PACLitaxel		
metoclopramide	20 mg	Orally 30 minutes prior to PACLitaxel Days 1, 8 and 15
dexamethasone	20 mg	IV in normal saline 50 mL over 15 minutes Days 1, 8 and 15
diphenhydrAMINE	50 mg	IV in normal saline 50 mL over 15 minutes Days 1, 8 and 15
raNITidine	50 mg	IV in normal saline 50 mL over 15 minutes Days 1, 8 and 15
PACLitaxel	80 mg/m ²	IV in normal saline 250 mL over 1 hour Days 1, 8 and 15 <i>Use non-DEHP bags and non-DEHP administration sets with 0.22 micron in-line filter</i> <i>Concentration dependent drug: Pharmacy will adjust diluent volume to ensure drug stability</i> <i>*Nursing Alert: Pump programming should reflect actual volume in the bag</i>

Flush after each medication:

- 50 mL over 6 minutes (500 mL/hr)

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

REQUIRED MONITORING

Cycles 1 to 4 (AC)

- CBC, biochemistry as per physician order
- Maintain oral intake of 2000 mL (8 glasses) of fluid daily at home
- Left Ventricular Ejection Fraction (LVEF) monitoring is recommended at baseline and as clinically indicated

Cycles 5 to 8 (PACLitaxel)

Day 1

- CBC, bilirubin, AST, ALT as per physician order

Days 8 and 15

- CBC

First Dose (Cycle 5, Day 1)

- Full vital signs (temperature, heart rate, respiration, blood pressure and O₂ saturation) at baseline
- Blood pressure and pulse every 15 minutes for one hour

Cycles 5 (Days 8 and 15) and Cycles 6 to 8 (PACLitaxel)

- Full vital signs at baseline and as clinically indicated

Recommended Support Medications

Drug	Dose	CCMB Administration Guideline
Cycles 1 to 4 - AC		
aprepitant	80 mg	Orally on Days 2 and 3 of chemotherapy cycle
ondansetron	8 mg	Orally 12 hours after chemotherapy
dexamethasone	4 mg	Orally twice daily for 5 doses starting the evening on the day of chemotherapy
metoclopramide	10 – 20 mg	Orally every 4 – 6 hours as needed for nausea and vomiting
Cycles 5 to 8 - PAclitaxel		
metoclopramide	10 – 20 mg	Orally every 4 – 6 hours as needed for nausea and vomiting

DISCHARGE INSTRUCTIONS

Cycles 1 to 4 (AC)

- Instruct patient to:
 - 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
 - Obtain immediate assistance as per your clinic's contact instructions if:
 - signs of hemorrhagic cystitis
 - unable to drink recommended amount of fluid
 - 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

Cycles 5 to 8 (PAclitaxel)

- 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

- N/A