

Regimen Reference Order – BRST – AC + PACLitaxel (Dose Dense)

ARIA: BRST - [AC + PACLitaxel q 14 days (Dose Dense)]

Planned Course: AC every 14 days for 4 cycles, followed by
PACLitaxel every 14 days for 4 cycles
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 (Dose Dense)

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
dexamethasone	20 mg	IV in normal saline 50 mL over 15 minutes
diphenhydrAMINE	50 mg	IV in normal saline 50 mL over 15 minutes
raNITidine	50 mg	IV in normal saline 50 mL over 15 minutes
PACLitaxel	175 mg/m ²	IV in normal saline 500 mL over 3 hours <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

Cycle 5 (PACLitaxel)

- CBC, bilirubin, AST, ALT as per physician order
- 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 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		
Grastofil®	5 mcg/kg (rounded to nearest 300 mcg or 480 mcg)	Subcutaneously once daily for 8 days to start on Day 3
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		
Grastofil®	5 mcg/kg (rounded to nearest 300 mcg or 480 mcg)	Subcutaneously once daily for 8 days to start on Day 3
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