ADULT Updated: June 14, 2023

Regimen Reference Order – BRST – DCH

ARIA: BRST - [DCH]

Planned Course: DCH every 21 days for 6 cycles, followed by trastuzumab every 21 days for

12 cycles

Indication for Use: Breast Cancer Adjuvant; HER2 positive

CVAD: At Provider's Discretion

Proceed with treatment if:

Cycles 1 to 6

• ANC equal to or greater than $1 \times 10^9/L$ AND Platelets equal to or greater than $100 \times 10^9/L$ Cycle 7 (trastuzumab)

- Blood work at provider's discretion; not required to proceed with treatment
 - Contact Physician if parameters not met

SEQUENCE OF MEDICATION ADMINISTRATION

| | Pre-treatment Requirements | | | | |
|---|----------------------------|------|--|--|--|
| ı | Drug | Dose | CCMB Administration Guideline | | |
| | Cycles 1 to 6 – DCH | | | | |
| | dexamethasone | 8 mg | Orally twice daily the day before DOCEtaxel treatment and one dose the morning of DOCEtaxel treatment | | |
| | | | (Self-administered at home) | | |
| | | | *Nursing Alert: Notify physician if patient has not taken dexamethasone. dexamethasone is prescribed to prevent infusion reactions | | |

| | Treatment Regimen – BRST – DCH | | | | | |
|---|------------------------------------|--|--|--|--|--|
| Establish primary solution 500 mL of: normal saline | | | | | | |
| Drug | Dose | CCMB Administration Guideline | | | | |
| Cycles 1 to 6 – DCH | | | | | | |
| trastuzumab (brand name specific) | Cycle 1 8 mg/kg Loading Dose | IV in normal saline 250 mL over 90 minutes *Alert: Ensure brand name on prescription label (indicated in brackets on prescription label) matches prescribed order *Nursing Alert: DOCEtaxel infusion begins after observation period is complete | | | | |
| | Cycles 2 to 6 6 mg/kg | IV in normal saline 250 mL over 30 minutes *Alert: Ensure brand name on prescription label (indicated in brackets on prescription label) matches prescribed order | | | | |
| aprepitant | 125 mg | Orally 1 hour pre-chemotherapy | | | | |
| ondansetron | 16 mg | Orally 30 minutes pre-chemotherapy | | | | |



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| dexamethasone | 4 mg | Orally 30 minutes pre-chemotherapy | |
|---|--|--|--|
| | | *Nursing Alert: this dose is in addition to the 8 mg self- administered dose taken at home morning of Day 1 | |
| DOCEtaxel | 75 mg/m ² | IV in normal saline 250 mL over 1 hour, following the administration rates below: | |
| | | Administer at 100 mL/hour for 15 minutes, then | |
| | | Administer remaining volume over 45 minutes | |
| | | Use non-DEHP bags and non-DEHP administration sets OR | |
| | | For 500 mL bags (when Pharmacy must prepare DOCEtaxel in 500 mL normal saline for concentration-dependent stability): | |
| | | IV in normal saline 500 mL over 1 hour, following the administration rates below: | |
| | | Administer at 200 mL/hour for 15 minutes, then | |
| | | Administer remaining volume over 45 minutes | |
| | | Use non-DEHP bags and non-DEHP administration sets | |
| normal saline | 100 mL | ONLY for patients with a PORT | |
| | | IV over 12 minutes | |
| | | *Nursing Alert: This volume is to be administered after standard flush | |
| CARBOplatin | AUC 6 mg/mL.min; maximum dose 900 mg (see table below) | IV in D5W 250 mL over 30 minutes | |
| Cycle 7 – trastuzumab every 21 days for 12 cycles | | | |
| trastuzumab (brand name specific) | 6 mg/kg | IV in normal saline 250 mL over 30 minutes every 21 days for 12 doses | |
| | | *Alert: Ensure brand name on prescription label (indicated in brackets on prescription label) matches prescribed order | |
| All doses will be automa | atically rounded that fall v | within CCMB Approved Dose Bands. See Dose Banding document for | |

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

REQUIRED MONITORING

Cardiac monitoring

• Left Ventricular Ejection Fraction (LVEF) at baseline and every 4 cycles (i.e. 12 weeks) as per Physician Orders

Cycles 1 to 6

• CBC, biochemistry and liver enzymes as per Physician Orders

Cycle 1 Only

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O₂ saturation) at baseline and as clinically indicated
- Observe patient for 30 minutes after trastuzumab infusion. Full vital signs after observation period is complete. DOCEtaxel infusion begins after observation period is complete
- No observation period required after DOCEtaxel administration. Patient can be discharged from treatment room if stable whether they had a reaction or not



ADULT BRST – DCH

Cycles 2 to 6

 Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O₂ saturation) at baseline and as clinically indicated

• No observation period required after trastuzumab or DOCEtaxel administration. Patient can be discharged from treatment room if stable whether they had a reaction or not

Cycles 7 to 18

- Full vital signs (temperature, heart rate, respiratory rate, blood pressure and O₂ saturation) at baseline and as clinically indicated
- No observation period required after trastuzumab 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 | | | |
| Cycles 1 to 6 ONLY – DCH | | | | | |
| pegfilgrastim (brand name specific) (See Filgrastim Clinical Guide) | 6 mg | Subcutaneous once on Day 3 *Alert: pegfilgrastim to be given as a single dose once per chemotherapy cycle no sooner than 24 hours after chemotherapy | | | |
| 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 | | | |
| Cycle 7 – trastuzumab | | | | | |
| None required | | | | | |

DISCHARGE INSTRUCTIONS

All Cycles

 Patients should be instructed to contact their cancer team immediately if symptoms of hypersensitivity reactions occur after discharge

Cycles 1 to 6 (DCH)

- Ensure patient receives pegfilgrastim supply if patient is self-administering at home
- 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

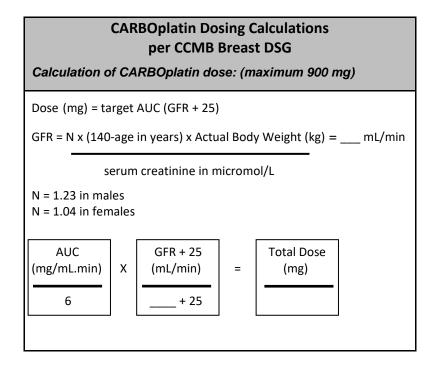
ADDITIONAL INFORMATION

- Reassess trastuzumab dose with significant weight changes
- trastuzumab is available from more than one manufacturer and uses several different brand names. Brand name will be indicated in brackets after trastuzumab. **Ensure prescription label matches the brand name on prescribed order**
- Note: At Cycle 6, an entry called "Physician Reminder Order remaining trastuzumab 1 Units Insert Miscellaneous once" will appear in the electronic drug order. No action is required. This prompt is to remind the prescriber to order single agent trastuzumab which begins at Cycle 7



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- CARBOplatin dosing considerations:
 - o CCMB Breast DSG uses actual body weight to calculate GFR
 - o 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



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).