Regimen Monograph

Regimen Name | Drug Regimen | Cycle Frequency | Premedication and Supportive Measures | Administrative Information |
References | Other Notes | Disclaimer

A - Regimen Name

FEC-D+PERT+TRAS Regimen

Fluorouracil-EPIrubicin-Cyclophosphamide then DOCEtaxel-Pertuzumab-Trastuzumab

Disease Site Breast

Intent Curative

Adjuvant

Regimen Category

Evidence-informed:

Regimen is considered appropriate as part of the standard care of patients; meaningfully improves outcomes (survival, quality of life), tolerability or costs compared to alternatives (recommended by the Disease Site Team and national consensus body e.g. pan-Canadian Oncology Drug Review, pCODR). Recommendation is based on an appropriately conducted phase III clinical trial relevant to the Canadian context OR (where phase III trials are not feasible) an appropriately sized phase II trial. Regimens where one or more drugs are not approved by Health Canada for any indication will be identified under Rationale and Use.

This **Regimen Abstract** is an **abbreviated** version of a Regimen Monograph and contains only top level information on usage, dosing, schedule, cycle length and special notes (if available). Information in regimen abstracts is accurate to the extent of the ST-QBP regimen master listings, and has not undergone the full review process of a regimen monograph. Full regimen monographs will be published for each ST-QBP regimen as they are developed.

Rationale and Uses

Treatment in patients with early HER2-positive breast cancer who have a high risk of recurrence.

Supplementary **t**

trastuzumab

Public Funding

New Drug Funding Program (Trastuzumab (Biosimilar) - Adjuvant Treatment

for Breast Cancer) (NDFP Website)

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B - Drug Regimen

Note: Different trastuzumab products are NOT INTERCHANGEABLE.

FEC100 (Cycles 1 to 3):

fluorouracil 500 mg /m² IV Day 1

EPIrubicin 100 mg /m² IV Day 1

<u>cyclophosphamide</u> 500 mg /m² IV Day 1

THEN

DOCETAXEL (Cycles 4 to 6):

DOCEtaxel 100 mg /m² IV Day 1

Trastuzumab and pertuzumab are given for one year starting concurrently with DOCEtaxel:

Loading Dose (Cycle 4):

PERTuzumab 840 mg IV Day 1

(This drug is not currently publicly funded for this regimen and intent)

trastuzumab 8 mg /kg IV Day 1

Maintenance Dose (Cycles 5+):

PERTuzumab 420 mg IV Day 1

(This drug is not currently publicly funded for this regimen and intent)

trastuzumab 6 mg /kg IV Day 1

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C - Cycle Frequency

REPEAT EVERY 21 DAYS

FEC100 X 3 cycles then DOCEtaxel+Pertuzumab+Trastuzumab for 3 cycles.

Refer to PERT+TRAS for cycles 7+.

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D - Premedication and Supportive Measures

Antiemetic Regimen: High (FEC)

Low (docetaxel)

Febrile Neutropenia

Risk:

High

Consider G-CSF prophylaxis for patients at high risk of febrile

neutropenia. See G-CSF recommendations.

Other Supportive Care:

- Dexamethasone 8 mg bid po for 3 days starting 1 day prior to docetaxel (prevent anaphylaxis / fluid retention.)
- Consider filgrastim as primary prophylaxis for febrile neutropenia, especially during cycles 4 to 6 of FEC-D.
- Trastuzumab: Refer to <u>Trastuzumab</u> drug monograph for full details.

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J - Administrative Information

Approximate Patient Visit FEC: 1.5 hours; Docetaxel-Pertuzumab-Trastuzumab:

4.5 hours (1st cycle), 3 hours(subsequent cycles)

Pharmacy Workload (average time per visit) 33.22 minutes
Nursing Workload (average time per visit) 68.75 minutes

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K - References

Coudert B, Asselain B, Campone M, et al. Extended benefit from sequential administration of docetaxel after standard fluorouracil, epirubicin, and cyclophosphamide regimen for node-positive breast cancer: the 8-year follow-up results of the UNICANCER-PACS01 trial. Oncologist 2012;17(7):900-9.

Cyclophosphamide, epirubicin, fluorouracil and docetaxel drug monographs, Cancer Care Ontario.

Mardarnas Y, Dent SF, Husain SF, et al. Real-world experience with adjuvant FEC-D chemotherapy in four Ontario regional cancer centres. Current Oncology 2011;18(3):119-25.

Roché H, Fumoleau P, Spielmann M, et al. Sequential adjuvant epirubicin-based and docetaxel chemotherapy for node-positive breast cancer patients: the FNCLCC PACS 01 Trial. JCO 2006; 24(36):5664-71.

von Minckwitz G, Proctor M, de Azambuja E, et al. Adjuvant pertuzumab and trastuzumab in early HER2-positive breast cancer. N Engl J Med. 2017;377(2):122-131.

PEBC Advice Documents or Guidelines

Optimal Systemic Therapy for Early Female Breast Cancer

April 2023 Updated DPD deficiency information in the Other Notes section

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L - Other Notes

Patients should be tested for DPD deficiency before starting treatment with fluorouracil. Refer to the DPD Deficiency Guidance for Clinicians for more information.

In patients with unrecognized DPD deficiency, acute, life-threatening toxicity may occur; if acute grade 2-4 toxicity develops, treatment should be stopped immediately and permanent discontinuation considered based on clinical assessment of the toxicities.

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M - Disclaimer

Regimen Abstracts

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Regimen Monographs

Refer to the <u>New Drug Funding Program</u> or <u>Ontario Public Drug Programs</u> websites for the most up-to-date public funding information.

The information set out in the drug monographs, regimen monographs, appendices and symptom management information (for health professionals) contained in the Drug Formulary (the "Formulary") is intended for healthcare providers and is to be used for informational purposes only. The information is not intended to cover all possible uses, directions, precautions, drug interactions or adverse effects of a particular drug, nor should it be construed to indicate that use of a particular drug is safe, appropriate or effective for a given condition. The information in the Formulary is not intended to constitute or be a substitute for medical advice and should not be relied upon in any such regard. All uses of the Formulary are subject to clinical judgment and actual prescribing patterns may not follow the information provided in the Formulary.

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