

## Regimen Monograph

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## A - Regimen Name

# CYCLDOCE+PEMB Regimen

Cyclophosphamide-DOCEtaxel-Pembrolizumab

**Disease Site** Breast

**Intent** Neoadjuvant

**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** For neoadjuvant treatment of high-risk triple negative breast cancer (TNBC) in patients with good performance status and who:

- have not received prior systemic therapy for non-metastatic TNBC, and
- have contraindications to anthracyclines, and
- do not have clinical contraindication for immunotherapy

**Supplementary Public Funding** [pembrolizumab](#)  
New Drug Funding Program (Pembrolizumab - Previously Untreated High-Risk Early-Stage Triple Negative Breast Cancer) ([NDFP Website](#) )

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## B - Drug Regimen

<a href="#">pembrolizumab</a> <sup>1,2</sup>	2 mg /kg	IV (max 200 mg)	Day 1
<a href="#">DOCEtaxel</a>	75 mg /m <sup>2</sup>	IV	Day 1
<a href="#">cyclophosphamide</a>	600 mg /m <sup>2</sup>	IV	Day 1

<sup>1</sup>Dosing based on NDFP funding criteria. Refer to NDFP form for alternative pembrolizumab dosing schedule (4 mg/kg IV q6 weeks).

<sup>2</sup>Give pembrolizumab before chemotherapy when given on the same day.

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## C - Cycle Frequency

### REPEAT EVERY 21 DAYS

For 4 cycles, unless disease progression or unacceptable toxicity occurs

Refer to [PEMB](#) for the adjuvant pembrolizumab monotherapy phase.

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**D - Premedication and Supportive Measures****Antiemetic Regimen:** Moderate**Febrile Neutropenia Risk:** HighPrimary prophylaxis with G-CSF is indicated for CYCLDOCE. Refer to the [Febrile Neutropenia Guideline](#).Also refer to [CCO Antiemetic Recommendations](#).**Premedication (prophylaxis for infusion reactions):**Pembrolizumab:

- Routine pre-medication is not recommended.
- May consider antipyretic and H1-receptor antagonist in patients who experienced a grade 1-2 infusion reaction.

Docetaxel:

- Dexamethasone\* 8 mg PO BID for 3 days, starting 1-day pre-infusion†

\* Do not discontinue dexamethasone, even in the absence of an IR, due to the benefits on other adverse effects (e.g. pain and edema).

† Dexamethasone 10-20 mg IV can be given if patient forgot to take oral doses.

**Screen for hepatitis B virus in all cancer patients starting systemic treatment.** Refer to the [hepatitis B virus screening and management](#) guideline.[back to top](#)**J - Administrative Information**

Approximate Patient Visit 2.5 hours

Pharmacy Workload (average time per visit) 47.335 minutes

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Nursing Workload (average time per visit) 69.167 minutes

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## K - References

CADTH Reimbursement recommendation - Pembrolizumab: For the treatment of adult patients with high-risk early-stage triple negative breast cancer. September 2022.

Cyclophosphamide, docetaxel, and pembrolizumab drug monographs, Ontario Health (Cancer Care Ontario).

Jones S, Holmes FA, O'Shaughnessy JO, et al. Docetaxel with cyclophosphamide is associated with an overall survival benefit compared with doxorubicin and cyclophosphamide: 7-year follow-up of US oncology research trial 9735. JCO 2009; 27(8): 1177-83.

Jones SE, Mavin MA, Holmes FA et al. Phase III trial comparing doxorubicin plus cyclophosphamide with docetaxel plus cyclophosphamide as adjuvant therapy for operable breast cancer. JCO 2006; 24: 5381-7.

Schmid J, Cortes L, Puztai L, et al. Pembrolizumab for early triple-negative breast cancer. N Engl J Med 2020;382:810-21.

Schmid P, Cortes J, Dent R, et al. Event-free survival with pembrolizumab in early triple-negative breast cancer. N Engl J Med 2022;386:556-67.

## **PEBC Advice Documents or Guidelines**

- [Optimal Systemic Therapy for Early Female Breast Cancer](#)

**September 2023** Updated the "Administrative Information" section with pharmacy and nursing workload.

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## M - Disclaimer

### ***Regimen Abstracts***

*A 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). It is intended for healthcare providers and is to be used for informational purposes only. It is not intended to constitute or be a substitute for medical advice, and all*

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### **Regimen Monographs**

Refer to the [New Drug Funding Program](#) or [Ontario Public Drug Programs](#) 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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Some Formulary documents, such as the medication information sheets, regimen information sheets and symptom management information (for patients), are intended for patients. Patients should always consult with their healthcare provider if they have questions regarding any information set out in the Formulary documents.

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