Regimen Monograph

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

A - Regimen Name

EC+PEMB Regimen

EPIrubicin-Cyclophosphamide-Pembrolizumab

Disease Site Breast

Category

- Intent Neoadjuvant
- Regimen 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 andFor neoadjuvant treatment of high-risk triple negative breast cancer (TNBC),
after 4 cycles of CRBPPACL(W)+PEMB

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

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B - Drug Regimen			
pembrolizumab ^{1,2}	2 mg /kg	IV (max 200 mg)	Day 1
<u>EPIrubicin</u>	90 mg /m²	IV	Day 1
cyclophosphamide	600 mg /m²	IV	Day 1

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

 $^2\mbox{Give pembrolizumab before chemotherapy when given on the same day.}$

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C - Cycle Frequency

REPEAT EVERY 21 DAYS

For 4 cycles unless disease progression or unacceptable toxicity occurs.

Refer to <u>PEMB</u> for the adjuvant pembrolizumab monotherapy phase.

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D - Premedication and Supportive Measures

Antiemetic Regimen:	High
Febrile Neutropenia Risk:	Moderate
	(CRBPPACL(W)-EC)

Also refer to CCO Antiemetic Recommendations.

Screen for hepatitis B virus in all cancer patients starting systemic treatment. Refer to the <u>hepatitis B virus screening and management</u> guideline.

Premedication for pembrolizumab (prophylaxis for infusion reactions):

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

Other Supportive Care:

• Avoid the use of corticosteroids or immunosuppressants before starting treatment.

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J - Administrative Information

Approximate Patient Visit	2 hours
Pharmacy Workload (average time per visit)	30.814 minutes
Nursing Workload (average time per visit)	57.333 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 drug monograph. Ontario Health (Cancer Care Ontario).

Epirubicin drug monograph, Ontario Health (Cancer Care Ontario).

Pembrolizumab drug monograph. Ontario Health (Cancer Care Ontario).

Schmid J, Cortes L, Pusztai 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.

May 2025 new ST-QBP regimen

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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

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