Regimen Monograph

Regimen Name | Drug Regimen | Cycle Frequency | Premedication and Supportive Measures | Administrative Information |
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A - Regimen Name

CRBPGEMC(W)+PEMB Regimen

Gemcitabine-CARBOplatin-Pembrolizumab

Disease Site Breast

Intent Palliative

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 the treatment of patients with locally recurrent unresectable or metastatic triple negative breast cancer, with tumours expressing PD-L1 CPS ≥10

If applicable, patients must have a minimum 6-month interval from completion of adjuvant treatment to recurrence of local or distant disease.

Patients must **NOT** have:

- unstable CNS metastases; OR
- received prior chemotherapy for metastatic or incurable locally advanced disease.

(Refer to NDFP form for details)

Supplementary Public Funding

pembrolizumab

New Drug Funding Program (Pembrolizumab - Locally Recurrent Unresectable or Metastatic 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; every 3 weeks
<u>gemcitabine</u>	1000 mg /m²	IV	Days 1, 8
CARBOplatin	AUC 2	IV	Days 1, 8

¹ Give pembrolizumab before chemotherapy when given on the same day.

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C - Cycle Frequency

Pembrolizumab:

2 mg /kg dosing: REPEAT EVERY 3 WEEKS 4 mg /kg dosing: REPEAT EVERY 6 WEEKS

Until disease progression or unacceptable toxicity, up to a maximum of 2 years (up to 35 doses given every 3 weeks or 18 doses given every 6 weeks), whichever comes first.

Refer to NDFP form for details on pembrolizumab retreatment.

CRBPGEMC(W): REPEAT EVERY 21 DAYS

Until disease progression or unacceptable toxicity

² Dosing based on NDFP funding criteria. Alternative dosing schedule: pembrolizumab 4mg/kg (max 400mg) IV q6 weeks.

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D - Premedication and Supportive Measures

Antiemetic Regimen: Moderate (Carboplatin AUC < 5)

Also refer to <u>CCO Antiemetic Summary</u>

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

Pre-medications (prophylaxis for infusion reaction):

Carboplatin:

- There is insufficient evidence that routine prophylaxis with pre-medications reduce infusion reaction (IR) rates.
- Corticosteroids and H1-receptor antagonists ± H2-receptor antagonists may reduce IR rates
 for some patients (e.g. gynecological patients with a platinum-free interval (PFI) > 12 months
 or a history of drug allergy who are receiving carboplatin starting from the 7th cycle) but no
 optimal pre-medication regimen has been established.

Pembrolizumab:

- 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 pembrolizumab treatment. Corticosteroids may be used as premedication (e.g. antiemetic) when given with chemotherapy.

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J - Administrative Information

Approximate Patient Visit 2.5 hours

Pharmacy Workload (average time per visit) 39.2 minutes

Nursing Workload (average time per visit)

51.667 minutes

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K - References

CADTH reimbursement recommendation: Pembrolizumab (In combination with chemotherapy, for the treatment of adult patients with locally recurrent unresectable or metastatic triple-negative breast cancer). January 2023.

Carboplatin, gemcitabine, and pembrolizumab drug monographs. Ontario Health (Cancer Care Ontario).

Cortes J, Cescon DW, Rugo HS, et al. Pembrolizumab plus chemotherapy versus placebo plus chemotherapy for previously untreated locally recurrent inoperable or metastatic triple-negative breast cancer (KEYNOTE-355): a randomised, placebo-controlled, double-blind, phase 3 clinical trial. Lancet. 2020 Dec 5;396(10265):1817-28. doi: 10.1016/S0140-6736(20)32531-9.

September 2023 Updated "Administrative Information Section" with nursing and pharmacy workload.

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L - Other Notes

Calvert Formula: (area under the curve method)

DOSE (mg) = target AUC X (GFR + 25)

- AUC = product of serum concentration (mg/mL) and time (min)
- GFR (glomerular filtration rate) expressed as measured Creatinine Clearance or estimated from Serum Creatinine (by Cockcroft and Gault method or Jelliffe method)

Calvert AH, Newell DR, Gumbrell LA, et al, Carboplatin dosage: Prospective evaluation of a simple formula based on renal function. J Clin Oncol, 1989; 7: 1748-1756

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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 uses of the Regimen Abstract are subject to clinical judgment. Such information is provided on an "as-is" basis, without any representation, warranty, or condition, whether express, or implied, statutory or otherwise, as to the information's quality, accuracy, currency, completeness, or reliability, and Cancer Care Ontario disclaims all liability for the use of this information, and for any claims, actions, demands or suits that arise from such use.

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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.

The format and content of the drug monographs, regimen monographs, appendices and symptom management information contained in the Formulary will change as they are reviewed and revised on a periodic basis. The date of last revision will be visible on each page of the monograph and regimen. Since standards of usage are constantly evolving, it is advised that the Formulary not be used as the sole source of information. It is strongly recommended that original references or product monograph be consulted prior to using a chemotherapy regimen for the first time.

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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