

## Regimen Monograph

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## A - Regimen Name

## CRBPPACL+PEMB Regimen

PACLitaxel-CARBOplatin-Pembrolizumab

**Disease Site** Head and Neck  
Squamous Cell

**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** As first-line treatment of metastatic or unresectable recurrent head & neck squamous cell carcinoma (HNSCC)

**Supplementary Public Funding** [pembrolizumab](#)  
New Drug Funding Program (Pembrolizumab - Recurrent or Metastatic)

## Squamous Cell Carcinoma of the Head and Neck)

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<a href="#">pembrolizumab</a> <sup>1</sup>	2 mg /kg	IV (max 200mg)	Day 1
<a href="#">PACLitaxel</a>	175-200 mg /m <sup>2</sup>	IV	Day 1
<a href="#">CARBOplatin</a>	AUC 5-6**	IV	Day 1

<sup>1</sup>Dosing based on NDFP funding criteria. Refer to NDFP form for alternative pembrolizumab dosing schedule.

\*\*Adjust Carboplatin dose to AUC target (using Calvert formula) as outlined in "Other Notes" section.

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REPEAT EVERY 21 DAYS for 6 cycles unless disease progression or unacceptable toxicity occurs

Refer to PEMB(MNT) for the maintenance phase of treatment.

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**Antiemetic Regimen:** Moderate + NK1 antagonist (Carboplatin AUC  $\geq$  5)

**Other Supportive Care:**

Also refer to [CCO Antiemetic Recommendations](#).

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

**Pre-medications (prophylaxis for infusion reaction):**Pembrolizumab:

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

Paclitaxel\*:

- Dexamethasone 20 mg PO 12- and 6-hours OR Dexamethasone 20 mg IV 30 minutes pre-infusion<sup>†</sup>
- Diphenhydramine 25-50 mg IV/PO 30-60 minutes pre-infusion
- Ranitidine 50 mg IV OR Famotidine 20 mg IV 30-60 minutes pre-infusion

\* Consider **discontinuing** pre-medications for paclitaxel if there was no IR in the first 2 doses.

<sup>†</sup>Oral and IV dexamethasone are both effective at reducing overall IR rates. Some evidence suggests that oral dexamethasone may be more effective for reducing severe reactions; however, adverse effects and compliance remain a concern

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**J - Administrative Information**

Approximate Patient Visit	5-6 hours
Pharmacy Workload (average time per visit)	39.6325 minutes
Nursing Workload (average time per visit)	69.833 minutes

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**K - References**

Burtness B, Harrington KJ, Greil R, et al. Pembrolizumab alone or with chemotherapy versus cetuximab with chemotherapy for recurrent or metastatic squamous cell carcinoma of the head and neck (KEYNOTE-048): a randomised, open-label, phase 3 study. *Lancet* 2019 Nov 23;394(10212):1915-1928. doi: 10.1016/S0140-6736(19)32591-7. Epub 2019 Nov 1.

Clark JI, Hofmeister C, Choudhury A, et al. Phase II evaluation of paclitaxel in combination with carboplatin in advanced head and neck carcinoma. *Cancer*. 2001;92(9):2334-40.

Fountzilas G, Skarlos D, Athanassiades A, et al. Paclitaxel by three-hour infusion and carboplatin in advanced carcinoma of nasopharynx and other sites of the head and neck. A phase II study conducted by the Hellenic Cooperative Oncology Group. *Ann Oncol*. 1997 May;8(5):451-5.

Pivot X, Cals L, Cupissol D, et al. Phase II trial of a paclitaxel-carboplatin combination in recurrent squamous cell carcinoma of the head and neck. *Oncology*. 2001;60(1):66-71.

**August 2022** Added pre-medication; Added information for funded alternative pembrolizumab schedule in Drug regimen section

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## L - Other Notes

### Calvert Formula

**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**

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