

## Regimen Monograph

[Regimen Name](#) | [Drug Regimen](#) | [Cycle Frequency](#) | [Premedication and Supportive Measures](#) | [Dose Modifications](#) | [Adverse Effects](#) | [Interactions](#) | [Drug Administration and Special Precautions](#) | [Recommended Clinical Monitoring](#) | [References](#) | [Other Notes](#) | [Disclaimer](#)

## A - Regimen Name

# CEMI Regimen

Cemiplimab

**Disease Site**      Gynecologic  
Cervix

**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.

**Rationale and Uses**      Treatment of recurrent or metastatic cervical cancer

[back to top](#)

## B - Drug Regimen

[cemiplimab](#)                              350 mg                              IV                              Day 1

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

[back to top](#)

---

## C - Cycle Frequency

### REPEAT EVERY 21 DAYS

For a usual total of up to 32 cycles (96 weeks) unless disease progression or unacceptable toxicity occurs

[back to top](#)

## D - Premedication and Supportive Measures

### Antiemetic Regimen: Minimal

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

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

### Premedication (prophylaxis for infusion reactions):

- Routine pre-medication is not recommended. No premedication was given for the first dose of cemiplimab during clinical trials.
- May consider premedication in patients who experienced a grade 1-2 infusion reaction. (Migden et al) Refer to Management of Infusion-related Reactions table.

[back to top](#)

## E - Dose Modifications

Doses should be modified according to the protocol by which the patient is being treated.

### **Dosage with toxicity**

Dose reductions are not recommended for cemiplimab. Doses may be delayed or discontinued based on toxicity.

Healthcare professionals should also consult the most recent cemiplimab product monograph for additional information.

### Summary of Principles of Management of Immune-related Adverse Effects (irAEs):

- Immune-related adverse effects (irAEs) are different in their presentation, onset and duration compared to conventional chemotherapy. Patient and provider education is essential.
- Initial irAEs presentation can occur months after completion of treatment and affect multiple organs.
- Dose escalation or reduction is not recommended.
- If no other cause can be identified (such as infection), any new symptom should be considered immune-related and prompt treatment initiated.
- Organ-specific system-based toxicity management is recommended.

Refer to CCO's [Immune Checkpoint Inhibitor Toxicity Management Guideline](#) for detailed descriptions of Immune-related toxicities and their management.

### Management of Infusion-related Reactions:

Grade	Management	Re-challenge*
1	<ul style="list-style-type: none"> <li>• Stop or slow the infusion rate (e.g. 50%)</li> <li>• Manage the symptoms</li> </ul>	Consider premedication (at least 30 min prior to infusion) with: <ul style="list-style-type: none"> <li>• Diphenhydramine 50mg (or equivalent) and/or acetaminophen 325 mg to 1000 mg</li> </ul>
2	<ul style="list-style-type: none"> <li>• Stop or slow the infusion rate (e.g. 50%)</li> <li>• Manage the symptoms</li> </ul>	Consider premedication (at least 30 min prior to infusion) with: <ul style="list-style-type: none"> <li>• Diphenhydramine 50mg (or equivalent) and/or acetaminophen 325 mg to 1000 mg</li> <li>• Corticosteroids (e.g. hydrocortisone 25 mg or equivalent) as necessary</li> </ul>
3 or 4	<ul style="list-style-type: none"> <li>• Stop treatment</li> <li>• Aggressively manage symptoms</li> </ul>	Permanently discontinue (do not re-challenge)

\*Based on Migden et al.

**Hepatic Impairment**

No formal studies in patients with hepatic impairment have been conducted.

Based on population pharmacokinetic analysis:

<b>Hepatic Impairment</b>	<b>Cemiplimab Dose</b>
Mild (bilirubin $\leq$ ULN and AST $>$ ULN or bilirubin $>1$ to $1.5 \times$ ULN and any AST)  OR  Moderate (bilirubin $>1.5$ to $3 \times$ ULN and any AST)	No dosage adjustment is required
Severe (bilirubin $>3 \times$ ULN and any AST)	No data

Refer to CCO's [Immune Checkpoint Inhibitor Toxicity Management Guideline](#) for management of immune-related hepatic toxicities.

**Renal Impairment**

No formal studies in patients with renal impairment have been conducted.

Based on population pharmacokinetic analysis:

<b>Creatinine Clearance (mL/min)</b>	<b>Cemiplimab Dose</b>
$\geq 15$	No dose adjustment
$< 15$	No data

Refer to CCO's [Immune Checkpoint Inhibitor Toxicity Management Guideline](#) for management of immune-related renal toxicities.

**Dosage in the Elderly**

No dose adjustment required. No overall differences in efficacy were observed between patients  $\geq 65$  years of age and younger patients. Trends towards a higher frequency of serious adverse events and discontinuations were observed in patients 65 years and older compared to younger patients.

[back to top](#)

**F - Adverse Effects**

Refer to [cemiplimab](#) drug monograph(s) for additional details of adverse effects.

<b>Common (25-49%)</b>	<b>Less common (10-24%)</b>	<b>Uncommon (&lt; 10%), but may be severe or life-threatening</b>
<ul style="list-style-type: none"> <li>• Diarrhea (may be severe; colitis)</li> </ul>	<ul style="list-style-type: none"> <li>• Fatigue</li> <li>• Nausea, Vomiting</li> <li>• Constipation</li> <li>• Rash, pruritus (may be severe)</li> <li>• Cough</li> <li>• Anorexia, weight loss</li> <li>• Headache</li> </ul>	<ul style="list-style-type: none"> <li>• Myelosuppression (including anemia)</li> <li>• Immune thrombocytopenic purpura</li> <li>• Hypo / hyperthyroidism</li> <li>• Type 1 diabetes mellitus</li> <li>• Hypersensitivity; IRRs</li> <li>• Adrenal insufficiency</li> <li>• Meningitis, encephalitis</li> <li>• Hypophysitis</li> <li>• Hepatitis</li> <li>• Sjogren's syndrome, myasthenia gravis, Guillain-Barre syndrome</li> <li>• Myocarditis</li> <li>• Mucositis</li> <li>• Nephritis</li> <li>• Pneumonitis</li> <li>• Vasculitis</li> <li>• Solid organ transplant rejection</li> <li>• Myositis</li> </ul>

[back to top](#)

**G - Interactions**

Refer to [cemiplimab](#) drug monograph(s) for additional details.

- No drug interaction studies have been conducted.
- Use of systemic corticosteroids or immunosuppressants should be avoided prior to starting cemiplimab because of potential interference with efficacy. They can be used to treat immune-mediated reactions after starting the drug.

[back to top](#)

---

## H - Drug Administration and Special Precautions

Refer to [cemiplimab](#) drug monograph(s) for additional details.

### Administration

- Undiluted solution should be clear to slightly opalescent, colourless to pale yellow; discard if cloudy, discoloured or contains extraneous particulate matter other than trace amounts of translucent-to-white particles.
- Dilute in 0.9% Normal Saline or 5% Dextrose to a final concentration between 1 to 20mg/mL. Mix by gentle inversion; do not shake.
- Infuse over 30 minutes using a sterile, 0.2 to 5 micron in-line or add-on filter.
- Do not co-administer with other drugs through the same infusion line.
- Store vials at 2-8 °C; do not freeze. Protect from light.

### Contraindications

- Patients who have a hypersensitivity to this drug or any of its components

### Warning/Precautions

- Cemiplimab may cause serious immune-related reactions affecting multiple organ systems. Use with caution and monitor closely in patients with pre-existing conditions such as colitis, hepatic or renal impairment, respiratory or endocrine disorders, such as hypo or hyperthyroidism or diabetes mellitus.
- Patients experiencing fatigue should exercise caution when driving or operating machinery.

### Pregnancy/Lactation

- This regimen is not recommended for use in pregnancy. Adequate contraception should be used by patients and their partners while on treatment and after the last treatment dose. Recommended methods and duration of contraception may differ depending on the treatment. Refer to the drug monograph(s) for more information.
- Breastfeeding is not recommended during treatment and after the last treatment dose. Refer to the drug monograph(s) for recommendations after the last treatment dose (if available).
- Fertility effects: Unknown

[back to top](#)

## I - Recommended Clinical Monitoring

Treating physicians may decide to monitor more or less frequently for individual patients but should always consider recommendations from the product monograph.

Refer to the [hepatitis B virus screening and management](#) guideline for monitoring during and after treatment.

### Recommended Clinical Monitoring

- CBC; Baseline and as clinically indicated
- Liver function tests; Baseline, before each dose and as clinically indicated; frequent with severe toxicity
- Renal function tests; Baseline, before each dose and as clinically indicated; frequent with severe toxicity
- Blood glucose; Baseline, before each dose and as clinically indicated; frequent with severe toxicity
- Thyroid function tests; Baseline, before each dose and as clinically indicated
- Clinical toxicity assessment for infusion-related reactions, immune-related reactions, including GI, endocrine, skin, neurologic, cardiac, respiratory, ocular, and musculoskeletal effects; At each visit
- Grade toxicity using the current [NCI-CTCAE \(Common Terminology Criteria for Adverse Events\) version](#)

[back to top](#)

## K - References

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

Migden MR, Khushalani K, Chang ALS, et al. Cemiplimab in locally advanced cutaneous squamous cell carcinoma: results from an open-label, phase 2, single-arm trial. *Lancet Oncol*. 2020 Feb;21(2):294-305.

Migden MR, Rischin D, Schmults CD, et al. PD-1 blockade with cemiplimab in advanced cutaneous squamous-cell carcinoma. *N Engl J Med* 2018;379:341-51.

Tewari KS, Monk BJ, Vergote I, et al. Survival with cemiplimab in recurrent cervical cancer. *N Engl J Med* 2022 Feb 10;386(6):544-55.

---

**December 2023** Expanded into full regimen monograph[back to top](#)**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.

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.

**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.

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.

While care has been taken in the preparation of the information contained in the Formulary, 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.

CCO and the Formulary’s content providers shall have no liability, whether direct, indirect, consequential, contingent, special, or incidental, related to or arising from the information in the Formulary or its use thereof, whether based on

---



---

*breach of contract or tort (including negligence), and even if advised of the possibility thereof. Anyone using the information in the Formulary does so at his or her own risk, and by using such information, agrees to indemnify CCO and its content providers from any and all liability, loss, damages, costs and expenses (including legal fees and expenses) arising from such person's use of the information in the Formulary.*

[back to top](#)