#### **Regimen Monograph**

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## A - Regimen Name

# **MFOLFOX6+PEMB** Regimen

Folinic Acid (Leucovorin)-Fluorouracil-Oxaliplatin-Pembrolizumab

Disease Site Gastrointestinal Esophagus

Intent Palliative

# Regimen Evidence-informed :

Category

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	First-line treatment, in patients with good performance status, of:
	<ul> <li>locally advanced unresectable or metastatic esophageal adenocarcinoma or squamous cell carcinoma</li> <li>HER2-negative advanced or metastatic adenocarcinoma of the esophagogastric junction</li> </ul>

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Supplementary Public Funding	pembrolizumab New Drug Funding Program (Pembrolizumab - First-line Treatment of Advanced Esophageal and Esophagogastric Junction Carcinoma) ( <u>NDFP</u> <u>Website</u> )					
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B - Drug Regimen						
Pembrolizumab every 6 weeks:						
<u>pembrolizumab</u> <sup>1,</sup>	2 4 mg	/kg	IV (max 400 mg)	Day 1; Every 6 weeks		
And mFOLFOX6 every 2 weeks:						
<u>oxaliplatin</u>	50 MQ	) /m-	IV	Day 1		
<u>leucovorin</u>	400 m	•	IV (concurrently with oxaliplatin)	Day 1		
<u>fluorouracil</u>	400 m	ng /m²	IV bolus, after leucovorin	Day 1		
Then,						
<u>fluorouracil</u>	2400	C	IV continuous infusion Start on Day 1 over 46 hours (single dose)			
<sup>1</sup> Dosing based on NDFP funding criteria. Refer to NDFP form for alternative pembrolizumab dosing						

<sup>1</sup>Dosing based on NDFP funding criteria. Refer to NDFP form for alternative pembrolizumab dosing schedule (2 mg/kg IV q3 weeks).

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

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# C - Cycle Frequency

#### **MFOLFOX6:** Repeat every 2 weeks

Until disease progression or unacceptable toxicity^

## **PEMBROLIZUMAB:** Repeat every 6 weeks (4 mg/kg)<sup>†</sup>

Until disease progression or unacceptable toxicity, or up to a maximum of 2 years, whichever occurs first

<sup>^</sup>If chemotherapy is discontinued after at least 1 cycle due to intolerance, pembrolizumab may be continued as single agent (PEMB(MNT)) for up to 2 years, unless disease progression or unacceptable toxicity.

<sup>†</sup>Alternative pembrolizumab dosing schedule is 2 mg/kg IV every 3 weeks.

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# **D** - Premedication and Supportive Measures

## Antiemetic Regimen: Moderate

## Premedications for Oxaliplatin (prophylaxis for infusion reactions):

- There is insufficient evidence that routine prophylaxis with pre-medications reduces IR rates.
- Consider corticosteroids and H1-receptor antagonists ± H2-receptor antagonists in high-risk patients (i.e. ≥ cycle 6, younger age, female gender, prior platinum exposure, platinum-free interval ≥ 3 years).

#### Other Supportive Care:

• AVOID mucositis prophylaxis with ice chips as cold temperatures can precipitate or exacerbate acute neurological symptoms of oxaliplatin.

Also refer to <u>CCO Antiemetic Recommendations</u>.

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# J - Administrative Information

Approximate Patient Visit	3 to 4 hours	
Pharmacy Workload (average time per visit)	49.356 minutes	
Nursing Workload (average time per visit)	79.167 minutes	

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# **K** - References

Al-Batran SE, Hartmann JT, Probst S, et al. Phase III trial in metastatic gastroesophageal adenocarcinoma with fluorouracil, leucovorin plus either oxaliplatin or cisplatin: a study of the Arbeitsgemeinschaft Internistische Onkologie. J Clin Oncol 2008;26(9):1435-42.

pCODR reimbursement review (pembrolizumab: esophageal carcinoma, gastroesophageal junction adenocarcinoma). February 2022.

Sun JM, Shen L, Shah MA, et al. Pembrolizumab plus chemotherapy versus chemotherapy alone for first-line treatment of advanced oesophageal cancer (KEYNOTE-590): a randomised, placebo-controlled, phase 3 study. Lancet 2021;398(10302):759-71. doi: 10.1016/S0140-6736(21)01234-4.

April 2023 Updated DPD deficiency and fluorouracil antidote information in the Other Notes section

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#### L - Other Notes

## **DPD Deficiency Testing and Guidance**

Patients should be tested for DPD deficiency before starting treatment with fluorouracil. Refer to the <u>DPD Deficiency Guidance for Clinicians</u> for more information.

In patients with unrecognized DPD deficiency, acute, life-threatening toxicity may occur; if acute grade 2-4 toxicity develops, treatment should be stopped immediately and permanent discontinuation considered based on clinical assessment of the toxicities.

#### Antidote for Fluorouracil Overdose:

**Uridine triacetate** is a prodrug of uridine and is a specific antidote for treating fluorouracil overdose or severe early onset toxicities. If available, consider administering as soon as possible (i.e. within 96 hours) for suspected overdose. If not available, treatment is

symptomatic and supportive.

For usage approval and supply, contact Health Canada's <u>Special Access Program</u> (SAP) (Phone: 613-941-2108. On-call service is available for emergencies). Uridine triacetate (Vistogard®) is supplied by its manufacturer in the United States (Wellstat Therapeutics).

The recommended dosing and administration for **uridine triacetate** in patients ≥18 years is:

- 10 grams (1 packet of coated granules) orally every 6 hours for 20 doses in total, without regards to meals.
- Granules should not be chewed. They should be mixed with 3 to 4 ounces of soft foods such as applesauce, pudding or yogurt.
- The dose should be ingested within 30 minutes of preparation, followed by at least 4 ounces of water.
- Refer to the prescribing information on dose preparation for NG-tube or G-tube use.

Additional resources on the management of fluorouracil infusion overdose:

- Management of Fluorouracil Infusion Overdose Guideline (Alberta Health Services)
- <u>Management of Fluorouracil Infusion Overdose at the BCCA Interim Guidance</u> (BC Cancer Agency)

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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.

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 <u>New Drug Funding Program</u> or <u>Ontario Public Drug Programs</u> websites for the most up-to-date public funding information.

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