

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](#) | [Administrative Information](#) | [References](#) | [Other Notes](#) | [Disclaimer](#)

A - Regimen Name

PACL(W) Regimen

PACLitaxel (weekly)

Disease Site Gynecologic - Ovary

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 platinum-sensitive recurrent ovarian cancer, when platinum is contraindicated (e.g. due to toxicity)
- Treatment of platinum-resistant recurrent ovarian cancer
- Option for patients who cannot tolerate q3weekly paclitaxel

[back to top](#)

B - Drug Regimen**PACLitaxel**80 mg /m²

IV

Days 1, 8, 15 and 22

[back to top](#)**C - Cycle Frequency****REPEAT EVERY 28 DAYS**

Until disease progression, or unacceptable toxicity

[back to top](#)**D - Premedication and Supportive Measures****Antiemetic Regimen:** Low**Other Supportive Care:**Also refer to [CCO Antiemetic Recommendations](#).**Pre-medications* (prophylaxis for infusion reaction):**

To be given 30-60 minutes prior to paclitaxel infusion.

- Dexamethasone 10 mg IV, starting in cycle 1
- Diphenhydramine 25-50 mg IV/PO
- Ranitidine 50 mg IV OR Famotidine 20 mg IV

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

[back to top](#)

E - Dose Modifications

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

Dosage with toxicity

Patients should not be retreated until neutrophil $\geq 1.5 \times 10^9$ /L and platelet counts $\geq 100 \times 10^9$ /L.

Dose levels: 80 mg/m², 70 mg/m², 60 mg/m². Dose re-escalations are not allowed. Discontinue treatment if toxicity recurs after 2 dose reductions.

Toxicity (Grade or Counts x 10 ⁹ /L)	On Day 1 of cycle	On D8, 15, 22 of cycle ¹
	Paclitaxel dose	
ANC < 1.5 and/or Platelets < 100	Delay ¹	No change
ANC ≤ 0.5 and/or Platelets ≤ 75	Delay ¹ ; \downarrow 1 level for next dose	OMIT, \downarrow 1 level for next dose
\geq grade 2 renal / neurotoxicity	Delay ¹ ; \downarrow 1 level	OMIT, \downarrow 1 level for next dose
Other Grade 3 non-hematological ^{2,3}	Delay ¹ ; \downarrow 1 level	OMIT, \downarrow 1 level for next dose
Grade 4 non-hematological ³	Discontinue	Discontinue

¹ Delay for up to 2 weeks. Start day 1 of cycle when non-hematologic toxicities recover to \leq grade 1, platelets $\geq 100 \times 10^9$ /L, and ANC $\geq 1.5 \times 10^9$ /L; reduce dose as per table.

² Except alopecia, fatigue, and nausea. Appropriate symptom management should be provided for vomiting, diarrhea, constipation; dose modifications may not be necessary.

³ Except infusion reactions. See **Management of Infusion Reactions** table below for dose modifications pertaining to infusion reactions.

Management of Infusion-related reactions:

Also refer to the CCO guideline for detailed description of [Management of Cancer Medication-Related Infusion Reactions](#).

Grade	Management	Re-challenge
1 or 2	<ul style="list-style-type: none"> Stop or slow the infusion rate. 	<ul style="list-style-type: none"> Consider re-challenge with pre-medications and at a reduced infusion rate. After 2 subsequent IRs, consider replacing with a

	<ul style="list-style-type: none"> • Manage the symptoms. <p>Restart:</p> <ul style="list-style-type: none"> • After symptom resolution, restart with pre-medications ± reduced infusion rate. 	<p>different taxane. Give intensified pre-medications and reduce the infusion rate.</p> <ul style="list-style-type: none"> • May consider adding oral montelukast ± oral acetylsalicylic acid.
3 or 4	<ul style="list-style-type: none"> • Stop treatment. • Aggressively manage symptoms. 	<ul style="list-style-type: none"> • Re-challenge is discouraged, especially if vital signs have been affected. • Consider desensitization if therapy is necessary. • There is insufficient evidence to recommend substitution with another taxane at re-challenge. • High cross-reactivity rates have been reported.

Hepatic Impairment

Bilirubin	AST/ALT	Paclitaxel dose (% previous dose)
1 – 3 x ULN		Caution
>3 - 4 x ULN	Grade 3	75% ¹ (or 70 mg/m ²)
> 4 x ULN	Grade 4	50% ¹ or OMIT

Consider dose modification for severe increases in LFTs.

¹Retreat when toxicities recover to ≤ grade 1, platelets ≥ 100 x 10⁹/L, and ANC ≥ 1.5 x 10⁹/L.

Renal Impairment

For Creatinine ≥ grade 2, may consider delay followed by ↓ 1 dose level.

Dosage in the Elderly

No adjustment required, but elderly patients are more at risk for severe toxicity.

[back to top](#)

F - Adverse Effects

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

Very common (≥ 50%)	Common (25-49%)	Less common (10-24%)	Uncommon (< 10%), but may be severe or life-threatening
<ul style="list-style-type: none"> • Alopecia (may be permanent) • Musculoskeletal pain (may be severe) • Neuropathy (may be severe, includes cranial nerves and autonomic) 	<ul style="list-style-type: none"> • Diarrhea • Nausea/vomiting • Myelosuppression +/- infection and bleeding (may be severe) • Hypersensitivity (may be severe) 	<ul style="list-style-type: none"> • Hypotension • ECG changes • Mucositis • Edema • Fatigue • ↑ LFTs (may be severe) 	<ul style="list-style-type: none"> • Arrhythmia • Arterial thromboembolism • Venous thromboembolism • Cardiotoxicity • Injection site reactions • Rash • GI obstruction • GI perforation • Pancreatitis • Secondary malignancy • Encephalopathy • Seizures • Cystoid macular edema • Pneumonitis • Typhlitis • Radiation recall

[back to top](#)

G - Interactions

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

- Caution with concurrent use of CYP2C8/3A4 substrates, inhibitors and inducers.

[back to top](#)

H - Drug Administration and Special Precautions

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

Administration

- In order to minimize patients' exposure to DEHP leaching from PVC bags or sets, use polyolefin or polypropylene infusion bags and polyethylene-lined administration sets (with a 0.22 micron in-line filter).
- Dilute in Normal Saline or 5% Dextrose, in a final concentration of 0.3-1.2 mg/mL and infuse over 3 hours.
- For weekly dosing, may be infused over 1 hour - mix in 250mL bag as above (not approved by manufacturer).
- Extended infusion of paclitaxel is not recommended as primary prophylaxis to reduce paclitaxel IRs.
- Excessive shaking, agitation, or vibration may induce precipitation and should be avoided.
- Precipitation may rarely occur with infusions longer than 3 hours.

Also refer to the CCO guideline for detailed description of [Management of Cancer Medication-Related Infusion Reactions](#).

Contraindications:

- Patients with a history of severe hypersensitivity reactions to paclitaxel or other drugs formulated in Cremophor EL (polyethoxylated castor oil)
- Patients with severe baseline neutropenia ($<1.5 \times 10^9/L$; $< 1 \times 10^9/L$ for patients with AIDS-related Kaposi's)

Other Warning/Precautions:

- Paclitaxel contains ethanol, and is administered with agents such as antihistamines which

cause drowsiness. Patients should be cautioned regarding driving and the use of machinery.

Pregnancy/Lactation:

- Paclitaxel is not recommended for use in pregnancy.
- Adequate contraception should be used by both sexes during treatment, and for at least 6 months after the last dose.
- Breastfeeding is not recommended.
- Fertility effects: Yes

[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.

Recommended Clinical Monitoring

- CBC at baseline and before each cycle
- Baseline and regular liver and renal function tests
- Blood pressure and pulse rate monitoring during infusion, cardiac monitoring with prior arrhythmia
- Clinical assessment of fever, infection, musculoskeletal, skin and nails, neurotoxicity, hypersensitivity and diarrhea; at each visit
- Grade toxicity using the current [NCI-CTCAE \(Common Terminology Criteria for Adverse Events\) version](#)

Suggested Clinical Monitoring

Renal function tests (AIDS-related Kaposi's sarcoma); Baseline and before each dose

[back to top](#)

J - Administrative Information

Approximate Patient Visit	2 hours
Pharmacy Workload (average time per visit)	18.663 minutes
Nursing Workload (average time per visit)	39.833 minutes

[back to top](#)

K - References

Le T, Hopkins L, Baines KA, et al. Prospective evaluations of continuous weekly paclitaxel regimen in recurrent platinum-resistant epithelial ovarian cancer. *Gynecol Oncol* 2006;102(1):49-53.

Markman M, Blessing J, Rubin SC, et al. Phase II trial of weekly paclitaxel (80 mg/m²) in platinum and paclitaxel-resistant ovarian and primary peritoneal cancers: a Gynecologic Oncology Group study. *Gynecol Oncol* 2006;101(3):436-40.

Markman M, Hall J, Spitz D, et al. Phase II trial of weekly single-agent paclitaxel in platinum/paclitaxel-refractory ovarian cancer. *J Clin Oncol* 2002;20(9):2365-9.

Paclitaxel drug monograph, Cancer Care Ontario.

Rosenberg P, Andersson H, Boman K, et al. Randomized trial of single agent paclitaxel given weekly versus every three weeks and with peroral versus intravenous steroid premedication to patients with ovarian cancer previously treated with platinum. *Acta Oncol* 2002;41(5):418-24.

PEBC Advice Documents or Guidelines

- [Systemic Therapy for Recurrent Epithelial Ovarian Cancer](#)

June 2021 removed paclitaxel NDFP funding info

[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

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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.

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[back to top](#)