Regimen Monograph

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A - Regimen Name

PACLitaxel			
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	 For the treatment of platinum-sensitive recurrent ovarian cancer, when platinum is contraindicated (e.g. due to toxicity) For the treatment of platinum-resistant recurrent ovarian cancer 		

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PACLitaxel	135-175 mg /m²	IV	Day 1
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C - Cycle Frequency

REPEAT EVERY 21 DAYS

Until disease progression or unacceptable toxicity

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D - Premedication and Supportive Measures

Antiemetic Regimen: Low

Other Supportive Care:

Also refer to CCO Antiemetic Recommendations.

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

Pre-medications^{*} (prophylaxis for infusion reaction):

Pre-Medications for Q3W paclitaxel:

- Dexamethasone 20 mg PO 12-and 6-hours OR Dexamethasone 20 mg IV 30 minutes preinfusion[†]
- 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.

[†] 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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E - Dose Modifications

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

Dosage with toxicity

Worst toxicity in previous cycle	Dose of paclitaxel		
Febrile neutropenia	↓ by 20%*		
Grade 4 ANC ≥ 5-7 days			
Grade 4 thrombocytopenia			
Grade 3 neurotoxicity, mucositis, or other	↓ by 20%*		
toxicity			
Grade 4 neurotoxicity or other toxicity, any	Discontinue		
grade cystoid macular edema			
*Patients should not be retreated with paclitaxel until neutrophils $\ge 1.5 \times 10^9/L$			
(≥ 1 x 10^9 /L in AIDS-related Kaposi's sarcoma) and platelet counts ≥ 100 x			
$10^9/L$ and other toxicity has recovered to \leq grade 2			

Management of Infusion-related reactions:

Also refer to the CCO guideline for detailed description of <u>Management of Cancer Medication-</u> <u>Related Infusion Reactions</u>.

Grade	Management	Re-challenge
1 or 2	 Stop or slow the infusion rate. Manage the symptoms. 	 Consider re-challenge with pre-medications and at a reduced infusion rate. After 2 subsequent IRs, consider replacing with a different taxane. Give intensified pre-medications and reduce the infusion rate. May consider adding oral montelukast ± oral acetylsalicylic acid.
	• After symptom resolution, restart with pre- medications ± reduced infusion rate.	

3 or 4	 Stop treatment. Aggressively manage symptoms. 	 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. 	
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Hepatic Impairment

Caution and dose reduction advised in patients with moderate to severe hepatic impairment.

Patients with hepatic impairment may be at risk of toxicity, especially severe myelosuppression.

Suggested dose modifications are:

Bilirubin		AST/ALT	Dose (% usual dose)
≤1.25 x ULN	And	2-10 x ULN	75%
1.26 to 2.5 x ULN	And	<10 x ULN	40%
2.6 to 4 x ULN	And	<10 x ULN	25%
>4 x ULN	And/Or	≥10 x ULN	Consider risk-benefit or Omit

Renal Impairment

No adjustment required.

Dosage in the Elderly

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

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F - Adverse Effects

Very common (≥ 50%)	Common (25-49%)	Less common (10- 24%)	Uncommon (< 10%), but may be severe or life-threatening
 Alopecia (may be permanent) Musculoskeletal pain (may be severe) Neuropathy (may be severe, includes cranial nerves and autonomic) 	 Diarrhea (may be severe) Nausea/vomiting Myelosuppression +/- infection and bleeding (may be severe) Hypersensitivity (may be severe) 	 Hypotension ECG changes Mucositis (may be severe) Edema Fatigue ↑ LFTs (may be severe) 	 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

Refer to <u>PACLitaxel</u> drug monograph(s) for additional details of adverse effects.

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G - Interactions

Refer to PACLitaxel drug monograph(s) for additional details.

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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 an in-line filter no greater than 0.22 microns).
- Dilute in 500-1000 mL Normal Saline or 5% Dextrose, in a final concentration of 0.3-1.2 mg/mL and infuse over 3 hours.
- 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 <u>Management of Cancer Medication-</u> <u>Related Infusion Reactions</u>.

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 x 10⁹/L)

Other Warnings/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:

- 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 this treatment and after the last treatment dose. Refer to the drug monograph(s) for recommendations after the last treatment dose (if available).
- Fertility effects: Probable Documented in animal studies

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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 <u>hepatitis B virus screening and management</u> guideline for monitoring during and after treatment.

Recommended Clinical Monitoring

- CBC; Baseline and before each visit
- Liver function tests; Baseline and before each cycle
- · Renal function tests; Baseline and as clinically indicated
- Blood pressure and pulse; During infusion (more frequently during the first hour), or per usual institutional protocol
- Continuous cardiac monitoring in patients who developed serious conduction abnormalities; During subsequent infusions
- Ophthalmology if visual impairment; As clinically indicated
- Clinical assessment of bleeding, infection, diarrhea, mucositis, musculoskeletal, neurologic (sensory) or respiratory effects, hypersensitivity, injection site reactions, thromboembolism; At each visit
- Grade toxicity using the current <u>NCI-CTCAE (Common Terminology Criteria for</u> <u>Adverse Events) version</u>

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J - Administrative Information

Approximate Patient Visit5 hoursPharmacy Workload (average time per visit)18.663 minutesNursing Workload (average time per visit)54.833 minutes

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K - References

Buda A. Floriani I. Rossi R, et al. Randomised controlled trial comparing single agent paclitaxel vs epidoxorubicin plus paclitaxel in patients with advanced ovarian cancer in early progression after platinum-based chemotherapy: An Italian Collaborative Study from the 'Mario Negri' Institute, Milan, G.O.N.O. (Gruppo Oncologico Nord Ovest) group and I.O.R. (Istituto Oncologico Romagnolo) group. Br J Cancer 2004;90(11):2112-17.

Cantu MG, Buda A, Parma G, et al. Randomized controlled trial of single-agent paclitaxel versus cyclophosphamide, doxorubicin, and cisplatin in patients with recurrent ovarian cancer who responded to first-line platinum-based regimens. J Clin Oncol 2002;20:1232-7.

Bolis G, Parazzini F Scarfone G, et al. Paclitaxel vs epidoxorubicin plus paclitaxel as second-line therapy for platinum-refractory and –resistant ovarian cancer. Gynecol Oncol 1999 Jan;72(1):60-4.

Kwon JS, Elit L, Finn M et al. A comparison of two prophylactic regimens for hypersensitivity reactions to paclitaxel. Gynecol Oncol 2002 Mar; 84(3): 420-5.

O'Byrne KJ, Bliss P, Graham JD, et al. A phase III study of Doxil/Caelyx versus paclitaxel in platinumtreated, taxane-naive relapsed ovarian cancer [abstract 808]. Proc Soc Clin Oncol. 2002;21:203a.

Paclitaxel drug monograph, Ontario Health (Cancer Care Ontario).

Piccart MJ, Green JA, Jimenez Lacave A, et al. Oxaliplatin or paclitaxel in patients with platinumpretreated advanced ovarian cancer : a randomized phase II study of the European organization for research and treatment of cancer gynecology group. J Clin Oncol 2000;18(6):1193-202.

ten Bokkel Huinink W, Lane SR, Ross GA. Long-term survival in a phase III, randomised study of topotecan versus paclitaxel in advanced epithelial ovarian carcinoma. Ann Oncol 2004;15(1):100-3.

Torri V, Floriani I, Tinazzi A, et al. Randomized trial comparing paclitaxel + doxorubicin versus paclitaxel as second line therapy for advanced ovarian cancer patients in early progression after platinum based chemotherapy. Proc Soc Clin Oncol. 2000(19):A1506.

PEBC Advice Documents or Guidelines

Systemic Therapy for Recurrent Epithelial Ovarian Cancer

November 2024 Updated Dose modifications, Adverse effects, Pregnancy/Lactation, and Monitoring sections

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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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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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