

Regimen Monograph

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A - Regimen Name

ANASPALB Regimen

Anastrozole - Palbociclib

Disease Site Breast

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 estrogen-receptor (ER)-positive, human epidermal growth factor receptor 2 (HER2)-negative breast cancer:

- As first-line therapy for unresectable locally advanced or metastatic disease, OR
- As second-line therapy after progression on a chemotherapy for unresectable locally advanced or metastatic disease

(Refer to EAP funding criteria details.)

Supplementary Public Funding [anastrozole](#)
ODB - General Benefit (anastrozole) ([ODB Formulary](#))

[palbociclib](#)
Exceptional Access Program (palbociclib - For the treatment of patients with

estrogen receptor (ER)-positive, human epidermal growth factor receptor 2 (HER 2)-negative, unresectable locally advanced or metastatic breast cancer in combination with an aromatase inhibitor or fulvestrant, according to clinical criteria) ([EAP Website](#))

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B - Drug Regimen

anastrozole	1 mg	PO	Daily
palbociclib	125 mg	PO	Days 1 to 21

Note: Pre- or perimenopausal women should also be treated with luteinizing hormone-releasing hormone (LHRH) agonists according to local clinical practice.

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C - Cycle Frequency

Anastrozole: CONTINUOUS TREATMENT

Palbociclib: REPEAT EVERY 28 DAYS (3 weeks on, 1 week off)

Until disease progression or unacceptable toxicity

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D - Premedication and Supportive Measures

Antiemetic Regimen: Minimal – No routine prophylaxis; PRN recommended

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

Other Supportive Care:

- Assess patient's risk factors for osteoporosis and consider calcium and vitamin D supplements and bisphosphonates where appropriate. Refer patients to the [Bone Health During Cancer Treatment](#) pamphlet for more information.

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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

Dose Level	Anastrozole Dose (mg/day) continuous	Palbociclib Dose (mg/day) for 3 out of 4 weeks
0	1	125
-1	1	100
-2	1	75
-3	1	If further dose reduction required, discontinue.

Anastrozole:

Toxicity	Anastrozole Dose
Myelosuppression	No adjustment required.
Severe hypercalcemia	Hold; discontinue if recurs.

Palbociclib:

Toxicity	Grade	Palbociclib Dose
Hematologic	3	Day 1: Hold and repeat CBC within 1 week. When recovered to Grade \leq 2, re-start next cycle at same dose. Day 15 of 1st 2 cycles: Continue current dose to complete the cycle. Repeat CBC day 22. If Grade 4 on Day 22, see Grade 4 recommendation below.

		Consider dose reduction if > 1 week recovery or recurrent Grade 3 neutropenia in subsequent cycles.
	3 with fever $\geq 38.5^{\circ}\text{C}$ and/or infection	Hold until recovery to Grade ≤ 2 . Restart at the next lower dose.
	4	Hold until recovery to Grade ≤ 2 . Restart at the next lower dose.
Symptoms of interstitial lung disease (ILD)/pneumonitis (treatment-related)	Any	Hold dose and investigate; discontinue if severe ILD confirmed.
Other non-hematologic	3 or 4 (if persisting despite medical treatment)	Hold until recovery to Grade ≤ 1 or Grade ≤ 2 (if not considered a safety risk). Restart at the next lower dose.

Hepatic Impairment

Clearance of anastrozole is reduced by 30% in patients with cirrhosis, but plasma levels are within normal range.

Mean fraction of unbound palbociclib in plasma increased with worsening hepatic function.

Hepatic Impairment	Anastrozole Dose	Palbociclib Starting Dose
Mild - Moderate	No adjustment is required.	No adjustment required.
Severe	Not studied; consider potential risk/benefit.	75 mg once daily (days 1 to 21; q28 days). Monitor for toxicity.

Renal Impairment

Clearance of anastrozole is reduced by 50% in severe renal impairment; however, renal excretion is a minor route of excretion.

Creatinine Clearance (mL/min)	Anastrozole Dose	Palbociclib Dose
≥ 30	No adjustment required.	No adjustment required.
15 to < 30	No adjustment required. Consider potential risk/benefit.	No adjustment required.
< 15	No adjustment required. Consider potential risk/benefit.	No data available.

Dosage in the Elderly

No overall differences in efficacy were observed between patients aged 65 and older compared to younger patients. No adjustment required for either anastrozole or palbociclib.

Dosage based on Gender

Gender and body weight had no significant effect on palbociclib exposure.

Dosage based on Ethnicity

No dose modification of palbociclib is required based on pharmacokinetic, safety and efficacy data across Asian and non-Asian populations.

No dose adjustment of anastrozole is required. No clinically significant differences in pharmacokinetics and therapeutic responses were observed in Japanese and Caucasian patients.

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F - Adverse Effects

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

The following table is based on the LETRPALB regimen.

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"> • Myelosuppression +/- infection, bleeding (may be severe) 	<ul style="list-style-type: none"> • Fatigue • Nausea, vomiting • Headache, musculoskeletal pain • Alopecia • Diarrhea 	<ul style="list-style-type: none"> • Cough, dyspnea • Estrogen deprivation symptoms • Constipation • Rash • Anorexia • Stomatitis • Insomnia • Dizziness • Osteoporosis, fracture • Abdominal pain • Edema • ↑ LFTs • Dysgeusia 	<ul style="list-style-type: none"> • Arterial thromboembolism • Venous thromboembolism • Arrhythmia • Cardiotoxicity • Hypersensitivity • Eye disorders • Pneumonitis

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G - Interactions

Refer to [anastrozole](#), [palbociclib](#) drug monograph(s) for additional details.

- Do not co-administer anastrozole with tamoxifen due to decreased anastrozole concentration and no efficacy or safety benefit.
- Avoid co-administration of anastrozole with estrogen-containing or estrogenic agents due to decreased estrogen suppression.

- Avoid strong CYP3A inhibitors due to increased risk of palbociclib toxicity.
- Avoid strong CYP3A inducers and, if possible, moderate CYP3A inducers due to decreased palbociclib concentration/efficacy.
- Administer palbociclib **capsules** with food to reduce variable drug exposure and minimize drug interactions with drugs that alter gastric pH. This does not apply to palbociclib tablets.
- Consider reducing the dose of CYP3A substrates with narrow therapeutic indices (e.g. cyclosporine) as palbociclib may increase substrate concentration.

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H - Drug Administration and Special Precautions

Refer to [anastrozole](#), [palbociclib](#) drug monograph(s) for additional details.

Administration: Anastrozole

- Administer anastrozole with or without food.
- Tablets should be swallowed whole with a glass of water at the same time each day.
- Missed dose should be taken as soon as possible, but only if there are at least 12 hours before the next dose is due.
- Store at room temperature (15 to 30°C).

Administration: Palbociclib

- Palbociclib **capsules** should be administered **with food**; palbociclib **tablets** may be given **with or without food**.
- Capsules or tablets should be swallowed whole and not chewed, crushed, opened or split prior to administration.
- If a patient vomits or misses a dose, an extra dose should not be taken to make up for the vomited or missed dose. The next dose should be taken at the usual time.
- Grapefruit, pomegranate, starfruit, Seville oranges, their juices or products should be avoided during palbociclib treatment.
- **Capsules** should be stored at room temperature (20 to 25°C), with excursions permitted between 15 to 30°C. **Tablets** should be stored at 15 to 30°C in original packaging to protect from moisture.

Contraindications

- Patients who are hypersensitive to anastrozole, palbociclib or any of their components
- Anastrozole is contraindicated in pregnant or lactating women.

Warnings/Precautions

- Use anastrozole with caution in patients with known osteoporosis or risk factors for osteoporosis, in patients with pre-existing cardiovascular disorders, severe liver or renal impairment.
- Anastrozole has not been studied in patients with brain, leptomeningeal or pulmonary lymphangitic disease.
- As fatigue and dizziness have been reported with palbociclib, patients should exercise caution when driving or operating machinery.
- Palbociclib capsules and some formulations of anastrozole contain lactose; carefully consider use in patients with hereditary galactose intolerance, severe lactase deficiency or glucose-galactose malabsorption.

Pregnancy/Lactation

- This treatment is **contraindicated** in pregnancy. Adequate contraception should be used by both sexes during treatment, and for at least **6 months** (general recommendation) after the last dose.
- Breastfeeding is **contraindicated** with this treatment.
- Fertility effects: Probable

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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.

Recommended Clinical Monitoring

- CBC; Baseline and before each cycle, on day 15 of the first 2 cycles, one week after Grade 3 neutropenia, and as clinically indicated. If neutropenia Grade 2 or less in the first 6 cycles, may monitor every 3rd cycle thereafter.
- Liver function tests; Baseline and as clinically indicated
- Renal function tests; Baseline and as clinically indicated
- Bone mineral density for patients at risk; Baseline and as clinically indicated
- Clinical toxicity assessment for fatigue, musculoskeletal, estrogen deprivation symptoms, mood changes (including depression), infection, bleeding, thromboembolism, pneumonitis, rash, headache, mucositis, edema, cardiovascular, GI and GU effects; At each visit

- Grade toxicity using the current [NCI-CTCAE \(Common Terminology Criteria for Adverse Events\) version](#)

Suggested Clinical Monitoring

- Cholesterol and lipid evaluation; baseline and as clinically indicated.
- Electrolytes, including calcium; baseline and as clinically indicated.

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J - Administrative Information

Outpatient prescription for home administration

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K - References

Anastrozole and palbociclib drug monographs. Ontario Health (Cancer Care Ontario).

Finn RS, Crown JP, Lang I, et al. The cyclin-dependent kinase 4/6 inhibitor palbociclib in combination with letrozole versus letrozole alone as first-line treatment of oestrogen receptor-positive, HER2-negative, advanced breast cancer (PALOMA-1/TRIO-18): a randomised phase 2 study. *Lancet Oncol*. 2015 Jan;16(1):25-35.

LETRPALB regimen monograph. Ontario Health (Cancer Care Ontario).

September 2021 Updated monitoring section

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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

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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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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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