Hormone Replacement Therapy Shortage

For the current status of drug shortages and discontinuations, refer to Drug Shortages Canada at www.drugshortagescanada.ca.

TABLE 1: Selected estrogen products marketed in Canada¹

Product	Active Ingredient, Formulation	Strength	DIN	Manufacturer
Climara	17-beta estradiol, patch	25 mg	02247499	Bayer Incorporated
		50 mg	02231509	
		75 mg	02247500	
Lupin-Estradiol	17-beta estradiol, tablet	0.5 mg	02449048	Lupin Pharma Canada Limited
		1 mg	02449056	
		2 mg	02449064	
Estrogel	17-beta estradiol, gel	0.06%	02238704	Organon Canada Incorporated
Premarin	conjugated estrogens,	0.3 mg	02414678	Pfizer Canada
	sustained-release tablet	0.625 mg	02414686	
		1.25 mg	02414694	
Estradiol Derm	17-beta estradiol, patch	50 mcg	02246969	Sandoz Canada Incorporated
		75 mcg	02246967	
		100 mcg	02246968	
Estradot	17-beta estradiol, patch	25 mcg	02245676	Sandoz Canada
		37.5 mcg	02243999	Incorporated
		50 mcg	02231509	
		75 mcg	02247500	
		100 mcg	02244002	
Divigel	17-beta estradiol, gel	0.1%	02424835	Searchlight Pharma
			02424843	Incorporated
			02424924	
Oesclim	17-beta estradiol, patch	25 mcg	02243722	Searchlight Pharma Incorporated
		50 mcg	02243724	

TABLE 2: Selected estrogen/progestin combination products marketed in Canada¹

Product	Active Ingredient, Formulation	Strength	DIN	Manufacturer
Angeliq	17-beta estradiol/drospirenone, tablet	1 mg/1 mg	02268825	Bayer Incorporated
Bijuva	estradiol hemihydrate/ micronized progesterone, capsule	1 mg/100 mg	02505223	Knight Therapeutics Incorporated
Activelle LD, Activelle	estradiol hemihydrate/ norethindrone acetate, tablet	0.5 mg/0.5 mg 1 mg/0.5 mg	02309009 02249405	Novo Nordisk
Estalis	17-beta estradiol/norethindrone acetate, patch	140/50 mcg 250/50 mcg	02241835 02241837	Sandoz Canada Incorporated

Health Canada-approved indications for estrogen and estrogen/progestin hormone therapy:²

• The relief of menopausal and postmenopausal symptoms occurring in naturally or surgically induced estrogendeficiency states

Common off-label uses of estrogen and estrogen/progestin hormone therapy:

- Transdermal estradiol can be used in transgender and gender-diverse patients who may benefit from feminizing hormone therapy as part of their gender-affirming care³
- Add-back hormone therapy to mitigate perimenopausal symptoms and bone loss in patients receiving gonadotropin-releasing hormone (GnRH) agonists (e.g., endometriosis, heavy menstrual bleeding)⁴

Management options:5

Hormone replacement therapy (HRT) is the most effective treatment for vasomotor symptoms of menopause (VMS) in patients who are <60 years of age or <10 years postmenopause.

Transdermal estrogen products have some advantages over oral products, including a potentially lower risk of venous thromboembolism, and may be considered over oral estrogen in certain patient groups (e.g., patients with migraines, hypertension). There are 2 transdermal formulations of estrogen available in Canada: topical gel (e.g., EstroGel) and topical patches (e.g., Estradot).

Multiple factors can influence the selection of an alternative hormonal therapy agent, including cost, adherence and patient preference. A list of alternative hormonal therapy products is shown in Table 3. Clinicians should monitor for efficacy and safety when switching between HRT products and titrate doses accordingly. For individuals with intact uteri switching from a combination systemic estrogen/progestogen product to a systemic estrogen product alone, a progestogen agent should be added to lower the risk of endometrial hyperplasia.

Nonhormonal medications can also be considered for the treatment of VMS in patients for whom HRT is undesirable or contraindicated. A list of nonhormonal medications used in the management of VMS is listed in Table 4.

The information presented here is generalized, and patients should be assessed on an individual basis. Patient assessment requires professional knowledge and judgment beyond the scope of this document. Consult CPS Full Access or other references if required.

TABLE 3: Alternative hormonal products⁵

Drug	Dosage	Adverse Effects
Conjugated estrogen/ bazedoxifene	1 tablet (0.45 mg/20 mg) daily PO	Breakthrough bleeding/spotting, nausea, bloating/water retention, chloasma.
Tibolone	2.5 mg daily PO	Breakthrough bleeding/spotting, nausea, gastrointestinal upset, fatigue, breast tenderness, bloating/water retention, increased appetite.

TABLE 4: Alternative nonhormonal products used in the management of menopausal symptoms⁵

Drug	Dosage	Adverse Effects			
Alpha ₂ -adrenergic Agonists					
Clonidine	0.05 mg BID PO	Dizziness, dry mouth, drowsiness, constipation.			
Anticholinergic Agents					
Oxybutynin	2.5-5 mg BID PO	Dry mouth, constipation, tachycardia.			
Oxybutynin, extended release	15 mg daily PO	Dry mouth, constipation, tachycardia.			
Gamma-aminobutyric Acid Derivatives					
Gabapentin	300 mg TID PO	Somnolence, dizziness.			
Pregabalin	150-300 mg daily PO	Somnolence, dizziness.			
Selective Serotonin Reuptake Inhibitors					
Citalopram	10-20 mg daily PO	Gastrointestinal upset, sexual dysfunction, weight gain.			
Escitalopram	10-20 mg daily PO	Gastrointestinal upset, sexual dysfunction, weight gain.			
Paroxetine	10-20 mg daily PO	Gastrointestinal upset, sexual dysfunction, weight gain.			
Serotonin-Norepinephrine Reuptake Inhibitors					
Desvenlafaxine	50-100 mg daily PO	Gastrointestinal upset, dry mouth, drowsiness, nervousness, sexual dysfunction.			
Venlafaxine	37.5-75 mg daily PO	Gastrointestinal upset, dry mouth, drowsiness, nervousness, sexual dysfunction.			

References

- 1. Health Canada. Drug product database online query [internet]. Available from: https://health-products.canada.ca/dpd-bdpp/index-eng. jsp. Accessed April 17, 2024.
- 2. Health Canada. Drug Product Database. Climara (Bayer Inc.) [product monograph]. 2016. Available from: www.canada.ca/en/healthcanada/services/drugs-health-products/drug-products/drug-product-database.html.
- 3. Coleman E, Radix AE, Bouman WP et al. Standards of care for the health of transgender and gender diverse people, version 8. Int J Transgend Health 2022;23(Suppl 1):S1-S259.
- 4. Gilliland GB. Endometriosis [internet]. April 19, 2021. Available from: https://cps.pharmacists.ca. Subscription required. Accessed April
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