



# **Beyond the Monograph: Evidence, Safety, and Scope for Off-Label OMP Prescribing**

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Jamie Kellar, RPh, BScHK, BScPhm, PharmD, PhD

Associate Dean Academic

Leslie Dan Faculty of Pharmacy, University of Toronto

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# Session Objectives

Over the next 20 minutes or so we will:

- define off-label prescribing
- discuss why off-label prescribing matters
- review the label and off-label indications for oral micronized progesterone (OMP) and the evidence to support it
- Discuss the clinical implications for off-label use of OMP and how to minimize risk

# Off-Label Prescribing: What It Is (and Is Not)

## Definition of Off-Label Prescribing

Off-label prescribing uses authorized drugs beyond Health Canada/FDA-approved indications, doses, routes, or populations.

## Regulatory and Ethical Considerations

Health Canada allows off-label use; prescribers are accountable and must ensure evidence-based, ethical practice.

## Common Areas of Use

Off-label prescribing is common in pediatrics, oncology, geriatrics, and mental health and is guided by clinical evidence.

## Importance of Professional Judgment

Legal off-label use depends on clinicians' judgment, documentation, and informed consent, not solely on monograph indications.



# Why Prescribe Off-Label?

- To provide timely, evidence-informed care
- When clinical needs exceed narrow monograph indications
- When updated research or guidelines support newer uses

# Why This Matters



## Off-label Prescribing Context

Off-label prescribing addresses gaps between approved uses and real clinical needs, common in Canadian healthcare.



## Safety and Regulation

Off-label use requires evidence-informed decisions, patient consent, and careful monitoring to ensure safety.



## Clinical and Policy Importance

Balancing clinical benefits and patient safety is key to policy decisions on expanding prescribing authority.

# Canadian Context

## Regulatory Framework

Off-label prescribing in Canada is governed federally by Health Canada and provincially by the professional colleges that oversee prescribers.

## Prevalence of Off-label Use

Studies show that off-label prescriptions range from 11% to 50%, varying across therapeutic areas in Canadian healthcare.

## Ethical and Safety Considerations

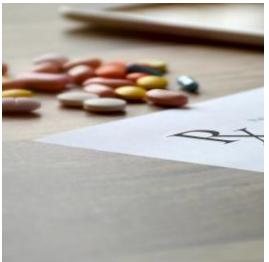
Ethical duties include providing valid evidence, documenting the rationale, obtaining informed consent, and addressing challenges in monitoring off-label use.



# Why Labels Don't Keep Pace with Practice

- Regulatory updates are slow and costly; companies must invest in trials and submission fees.
- Off-label uses often become standard of care based on emerging evidence, but manufacturers may not pursue label expansion if:
  - Market size is small
  - No commercial incentive
  - Trials would be expensive

# From Off-Label to On-Label: The Case of Lamotrigine



## Initial Approval and Off-Label Use

Lamotrigine was first approved for epilepsy but widely used off-label for bipolar disorder (acute depression and maintenance therapy.)



## Clinical Trials and Regulatory Approval

Clinical trials showed efficacy in delaying mood episode recurrence, leading to regulatory approval for bipolar I maintenance.



## Regulatory Lag and Off-Label Challenges

Despite evidence, lamotrigine is unapproved for acute bipolar depression, showing regulatory delays behind clinical practice.

# Maximizing Safety

## **What makes off-label use clinically safe?**

- A clear, evidence-informed rationale
- Patient selection
- Monitoring and follow-up
- Documentation of risk-benefit assessment
- Informed consent

# OMP Basics



## Approved Indication (Canada)

OMP is approved for the prevention of endometrial hyperplasia in post menopausal women taking estrogen.

## Contraindications

Contraindications include undiagnosed vaginal bleeding, active liver disease, hormone-dependent cancers, active or past history of arterial thromboembolic disease or history of VTE or PE.

## Off-label Use Awareness

Prescribing OMP outside approved uses, like for sleep or vasomotor symptoms, is off-label.

# Common Off-Label Uses

## Management of Vasomotor Symptoms

OMP is used off-label to manage perimenopausal hot flashes and night sweats, improving patient comfort.

## Improvement of Sleep and Mood

Progesterone's neurosteroid effects may enhance sleep quality and mood stability in patients.

## Cycle Regulation Benefits

OMP helps stabilize the endometrium, offering potential benefits for abnormal uterine bleeding and cycle regulation.

## Assisted Reproductive Technology (ART): Luteal Phase Support

Used vaginally to support pregnancy; higher doses



Kellar J. OMP Report for College of Naturopaths of Ontario: Drug List Review. 2025  
Prior JC, et al. **Menopause.** 2023;30(1):45-54.

Seifert-Klauss V, et al. **Maturitas.** 2000;37(3):161-169

Nolan, B et al. 2021. The Journal of Clinical Endocrinology & Metabolism:106(4);e942-e951

# VMS Evidence

## Canadian Phase III Trial

- 189 perimenopausal women tested 300 mg OMP versus placebo for 12 weeks with no significant primary VMS score difference.
- Participants reported perceived reductions in night sweats and improved sleep quality without serious adverse effects during the trial.

## German Multi-center Trial

- tested 200-400 mg OMP daily in postmenopausal women, showing dose-dependent symptom improvement trends but not statistically significant.

## Guideline Recommendations (NAMS, NICE, BMS, SOCG, IMS)

- Estrogen plus OMP for VMS symptoms in perimenopause and menopause
- OMP alone noted as limited data, off label use.



Prior JC, et al. **Menopause**. 2023;30(1):45-54.  
Seifert-Klauss V, et al. **Maturitas**. 2000;37(3):161-169.

# Sleep Evidence



## **Sleep Onset Improvement**

OMP reduces sleep onset latency by about 7 minutes compared to placebo in clinical studies.

## **Subjective Sleep Quality**

Total sleep time improvements are varied, subjective sleep quality often shows positive changes with OMP.

## **Mechanism of Action**

Progesterone metabolites modulate GABA-A receptors producing anxiolytic and sedative effects aiding sleep.

## **Study Population Considerations**

Most studies involved postmenopausal women, some with estrogen therapy, limiting monotherapy conclusions.

# Assisted Reproductive Technology (ART): Luteal Phase Support

- Progesterone replacement or supplementation as part of ART for infertile patients with progesterone deficiency is supported by evidence
- Multiple dosing regimens are available
  - Multiple studies have shown that vaginal administration of OMP capsules achieves luteal support comparable to dedicated vaginal progesterone products.
  - Pregnancy rates and endometrial support outcomes are similar between vaginal OMP and other vaginal progesterone formulations.
- Usual dosing: Vaginal administration of OMP 200 mg three times daily, starting on the day of oocyte retrieval and continuing for up to 12 weeks of gestation
- Guidelines endorse off-label use of OMP vaginally for this indication

# Safety Profile

- Overall safety profile of OMP is favourable for most individuals
- Many studies have found OMP to be safer than synthetic progestins (i.e. medroxyprogesterone acetate (MPA))
  - Less thromboembolic events (VTE)
- When used with estrogen, it seems to have a more favourable effect on invasive breast cancer compared to estrogen plus MPA or estrogen alone.



# Why Off Label Use Matters for OMP: Clinical Realities

- The approved monograph may not adequately reflect modern evidence
- OMP is used globally for multiple indications, beyond the Canadian label indication
- MDs, NPs, and midwives routinely prescribe it off-label
- Major menopause guidelines support the use of OMP plus estrogen for the treatment of perimenopausal and menopausal symptoms
- Reproductive/fertility guidelines support the use of OMP intravaginally for ART, luteal phase support.

# Who Prescribes OMP Off-Label?



## Primary Prescribers of OMP

Family physicians, gynecologists, and nurse practitioners prescribe OMP off-label for symptoms like VMS and sleep problems.

## Role of Pharmacists

Pharmacists can prescribe OMP with various levels of independence in Canada.

Dispense OMP - providing a therapeutic review/assessment of the patient before dispensing.

# Safety Checklist for Off-Label Prescribing

## Document Indication, Rationale, and Consent

Ensure clear documentation of the indication, supporting evidence for off-label OMP use, and informed consent.

## Screen Contraindications

Screen patients for contraindications like breast cancer, thromboembolic risk, and liver disease before prescribing.

## Evidence-Based Dosing

Use evidence-based dosing protocols

## Monitor and Reassess

Monitor symptoms and adverse effects at baseline and follow-ups; periodically reassess risk versus benefit.



# Bottom Line

## **Promising but Limited Evidence**

Current research shows potential benefits of off-label OMP use for perimenopausal symptoms but lacks large-scale validation.

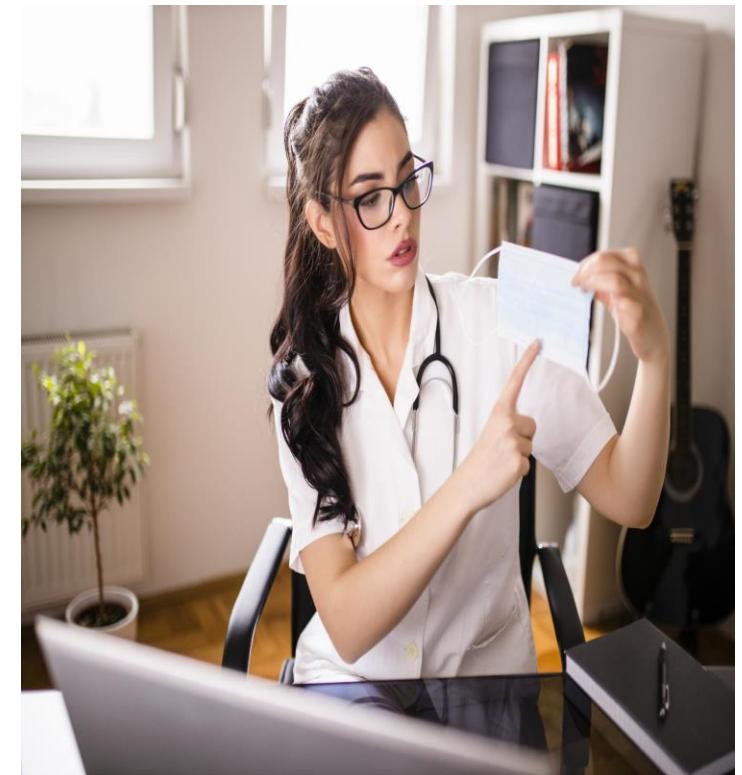
## **Need for Caution**

Prescribers must use off-label OMPs cautiously due to limited definitive studies and ensure informed consent is obtained.

## **Monitoring is Key**

Prescribers must monitor for effectiveness and safety. If it is not working – stop it. Reassess need to continue at each follow-up.

## **Refer When Necessary**



# Key Takeaways

## Legal and Monitoring Requirements

- Off-label prescribing in Canada requires strong evidence, informed consent, and careful patient monitoring and documentation to ensure safety.

## Collaboration and Best Practices

- Interprofessional collaboration and adherence to best practices protect patients and maintain public trust.
- When in doubt, refer



# Questions?

