

## **SAMPLE**

# ***Genitourinary Syndrome of Menopause (GSM): Underdiagnosed and Undertreated***

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Menopause and perimenopause are having a moment. Even as more attention is paid to this time in women's lives, genitourinary syndrome of menopause (GSM), a group of symptoms many women experience, remains underdiagnosed and undertreated.

### **What is in a name?**

You may have heard terms like “vaginal atrophy,” “atrophic vaginitis,” or simply “vaginal dryness.” In 2014, the North American Menopause Society recommended using the term genitourinary syndrome of menopause because it better describes the full range of symptoms women may experience.<sup>1</sup>

GSM is not just vaginal dryness. It is a group of symptoms that can include:<sup>1</sup>

- Vaginal symptoms: dryness, burning, and irritation
- Sexual symptoms: lack of lubrication, pain or discomfort during sex, and reduced sexual function
- Urinary symptoms: needing to urinate frequently or urgently, pain with urination, and repeat urinary tract infections (UTIs)

These symptoms can affect your quality of life, your relationships, and how you feel about yourself.<sup>2</sup>

Even though GSM is common, many women feel embarrassed to bring it up with their healthcare provider. Up to 70% of patients don't discuss their symptoms with a healthcare provider.<sup>3</sup> And many clinicians don't routinely ask about symptoms in peri- and postmenopausal patients.<sup>4</sup> Often, women assume these symptoms are a normal part of aging that they have to accept.<sup>5</sup> But that is not true! GSM is a medical condition, and effective treatments are available.

### **Who gets GSM?**

GSM is very common. Studies suggest that 40-60% of peri- and postmenopausal women report GSM symptoms.<sup>6</sup> Unlike hot flashes, which often improve on their own, GSM symptoms tend to get worse over time without treatment. Despite how common it

is, many women are never diagnosed because they don't mention their symptoms to a clinician, or their healthcare provider doesn't ask.<sup>3,4</sup>

## **Why does GSM happen?**

GSM is caused by lower estrogen levels that come with perimenopause and menopause. Estrogen helps maintain normal blood flow to the tissues of the vulva (external genitalia including the labia, or "lips"), vagina (internal canal), urethra (opening to the bladder), and bladder, which keeps these tissues thick, moist, and elastic.<sup>7</sup> It also supports the "good" bacteria that normally live in the vagina and help protect against infection.<sup>8</sup>

When estrogen levels drop, these tissues become thinner, drier, and more fragile. Blood flow decreases, and the protective bacteria can no longer thrive. This makes the vaginal area more prone to irritation and increases the risk of urinary tract infections.<sup>9</sup>

## **What should I do if I have these symptoms?**

If you are experiencing any of these symptoms, it is important to talk to your doctor or other healthcare provider — especially if they are affecting your daily life, making sex or exercise painful, or causing repeat UTIs. If your primary care provider is not comfortable discussing these symptoms or doing a pelvic exam, ask for a referral to a gynecologist.

Your clinician will want to make sure GSM is the actual cause of your symptoms. Sometimes, similar symptoms can be caused by something else such as a yeast infection or UTI, which would need different treatment. It is also important to talk about how these symptoms affect your daily life. This helps you decide together which treatment is the best fit for you.

## **Is there treatment for GSM?**

Yes! The good news is that there are safe and effective treatments for GSM. And while genitourinary syndrome of menopause is not life-threatening, it is worth treating because it can significantly affect your comfort and quality of life. GSM does not usually improve on its own, and treating it earlier often leads to faster relief.

### *Non-hormonal treatments:*

- Vaginal moisturizers (used regularly, not just during sex) can help with dryness and discomfort
- Vaginal lubricants can reduce pain during sex

- Avoiding irritants: soaps, sprays, powders, and scented products used on the vulva or vagina can make symptoms worse
- Limiting pad use: pads worn for urinary leakage can irritate the vulva. Treating urinary incontinence can help reduce the need for pads
- Pelvic floor physical therapy: some women benefit from working with a pelvic floor physical therapist. Your clinician can help decide if this is right for you

### *Hormonal treatments:*

Low-dose vaginal estrogen is a highly effective and low-risk treatment for GSM, especially for women who do not get enough relief from non-hormonal options. It helps with vaginal dryness, vulvar irritation, and pain during sex. It is inserted directly into the vagina and works locally on the nearby tissues — the vagina, vulva, urethra, and bladder — to help restore their health.<sup>10–17</sup> It also helps bring back the protective “good” bacteria in the vagina, which lowers the risk of UTIs. Many women worry about using estrogen, but low-dose vaginal estrogen is safe and effective.<sup>12,18,19</sup>

A different hormone cream, dehydroepiandrosterone (DHEA), is also sometimes used to treat these symptoms.<sup>20–23</sup> There is also an oral (pill) medication, ospemifene, which acts like estrogen in certain tissues, including vaginal tissue.<sup>24</sup> Your clinician can help decide which treatment is the best option for you.

### **Wait, doesn't estrogen cause breast cancer?**

There has been a lot of confusion about vaginal estrogen. In the past, the FDA required all estrogen-containing products — including birth control pills and oral hormone therapy — to carry a “black box” warning about increased risks of certain cancers, cardiovascular disorders, and dementia.<sup>25</sup> This frightened many women away from vaginal estrogen, even though doctors have long known that the risk with vaginal estrogen is very different from these other products. In 2025, the FDA removed the black box warning from vaginal estrogen products.<sup>26</sup>

Because vaginal estrogen works locally in the vaginal area, very little of it is absorbed into the bloodstream. This is what makes it different — and safer — than estrogen taken by mouth or through a skin patch.<sup>12,18,19</sup> Large studies have found that low-dose vaginal estrogen does not increase the risk of breast cancer.<sup>27</sup>

### **What if I've had breast cancer?**

Having a history of breast cancer does not automatically mean vaginal estrogen or other hormonal treatments are off-limits for you. Research suggests that low-dose vaginal

estrogen does not increase the risk of breast cancer recurrence or of dying from breast cancer.<sup>28</sup> However, this is an important conversation to have with all of your healthcare providers, including your oncologist, before making any treatment decisions. Together, you can weigh the risks and benefits for your specific situation.<sup>29</sup>

## **Do I need a prescription?**

You and your healthcare provider will talk about your symptoms and what you hope treatment will do for you. Vaginal estrogen is available by prescription and comes in several forms, including a cream, a vaginal tablet, and a vaginal ring. The vaginal estrogen cream is often the most affordable, but the vaginal tablet or ring might be a better option for some women. Certain women may be better candidates for DHEA cream or ospemifene.<sup>29</sup>

## **Are there treatments that I should avoid?**

Laser and radiofrequency treatments have been marketed for GSM. These devices deliver energy to vaginal tissues and claim to improve symptoms. However, research has not consistently shown that they work as advertised. These treatments are often very expensive, are usually not covered by insurance, and should currently be considered experimental. Talk to your provider before pursuing these options.<sup>29</sup>

## **Key Takeaways**

- GSM is common and treatable
  - It is a medical condition — not just “normal aging”. You don’t have to live with it!
- Many treatment options are available, both non-hormonal and hormonal
- Low-dose vaginal estrogen is safe and effective for most women
- Talk to your clinician: don’t feel embarrassed — your symptoms deserve attention and treatment
- Earlier treatment often means faster relief, so speak up as soon as symptoms are affecting your life

1. Portman DJ, Gass MLS, Vulvovaginal Atrophy Terminology Consensus Conference Panel. Genitourinary syndrome of menopause: new terminology for vulvovaginal atrophy from the International Society for the Study of Women's Sexual Health and the North American Menopause Society. *Menopause*. 2014;21(10):1063-1068. doi:10.1097/GME.0000000000000329
2. Nappi RE, Palacios S, Bruyniks N, Particco M, Panay N, EVES Study investigators. The burden of vulvovaginal atrophy on women's daily living: implications on quality of life from a face-to-face real-life survey. *Menopause*. 2019;26(5):485-491. doi:10.1097/GME.0000000000001260
3. Nappi RE, Kokot-Kierepa M. Women's voices in the menopause: results from an international survey on vaginal atrophy. *Maturitas*. 2010;67(3):233-238. doi:10.1016/j.maturitas.2010.08.001
4. Kingsberg SA, Schaffir J, Faught BM, et al. Female Sexual Health: Barriers to Optimal Outcomes and a Roadmap for Improved Patient-Clinician Communications. *J Womens Health*. 2019;28(4):432-443. doi:10.1089/jwh.2018.7352
5. Bachmann GA, Nevadunsky NS. Diagnosis and treatment of atrophic vaginitis. *Am Fam Physician*. 2000;61(10):3090-3096.
6. Mili N, Paschou SA, Armeni A, Georgopoulos N, Goulis DG, Lambrinouadaki I. Genitourinary syndrome of menopause: a systematic review on prevalence and treatment. *Menopause*. 2021;28(6):706-716. doi:10.1097/GME.0000000000001752
7. Castelo-Branco C, Cancelo MJ, Villero J, Nohales F, Juliá MD. Management of post-menopausal vaginal atrophy and atrophic vaginitis. *Maturitas*. 2005;52 Suppl 1:S46-52. doi:10.1016/j.maturitas.2005.06.014
8. Pandit L, Ouslander JG. Postmenopausal vaginal atrophy and atrophic vaginitis. *Am J Med Sci*. 1997;314(4):228-231. doi:10.1097/00000441-199710000-00004
9. Cox S, Nasser R, Rubin RS, Santiago-Lastra Y. Genitourinary Syndrome of Menopause. *Med Clin North Am*. 2023;107(2):357-369. doi:10.1016/j.mcna.2022.10.017
10. Archer DF, Kimble TD, Lin FDY, Battucci S, Sniukiene V, Liu JH. A Randomized, Multicenter, Double-Blind, Study to Evaluate the Safety and Efficacy of Estradiol Vaginal Cream 0.003% in Postmenopausal Women with Vaginal Dryness as the Most Bothersome Symptom. *J Womens Health*. 2018;27(3):231-237. doi:10.1089/jwh.2017.6515
11. Bachmann G, Bouchard C, Hoppe D, et al. Efficacy and safety of low-dose regimens of conjugated estrogens cream administered vaginally. *Menopause*. 2009;16(4):719-727. doi:10.1097/gme.0b013e3181a48c4e
12. Constantine GD, Simon JA, Pickar JH, et al. The REJOICE trial: a phase 3 randomized, controlled trial evaluating the safety and efficacy of a novel vaginal estradiol soft-gel capsule for symptomatic vulvar and vaginal atrophy. *Menopause*. 2017;24(4):409-416. doi:10.1097/GME.0000000000000786
13. Fernandes T, Costa-Paiva LH, Pedro AO, Baccaro LFC, Pinto-Neto AM. Efficacy of vaginally applied estrogen, testosterone, or polyacrylic acid on vaginal atrophy: a randomized controlled trial. *Menopause*. 2016;23(7):792-798. doi:10.1097/GME.0000000000000613
14. Freedman M, Kaunitz AM, Reape KZ, Hait H, Shu H. Twice-weekly synthetic conjugated estrogens vaginal cream for the treatment of vaginal atrophy. *Menopause*. 2009;16(4):735-741. doi:10.1097/gme.0b013e318199e734
15. Lima SMRR, Yamada SS, Reis BF, Postigo S, Galvão da Silva MAL, Aoki T. Effective treatment of vaginal atrophy with isoflavone vaginal gel. *Maturitas*. 2013;74(3):252-258. doi:10.1016/j.maturitas.2012.11.012
16. Mitchell CM, Reed SD, Diem S, et al. Efficacy of Vaginal Estradiol or Vaginal Moisturizer vs Placebo for Treating Postmenopausal Vulvovaginal Symptoms: A Randomized Clinical Trial. *JAMA Intern Med*. 2018;178(5):681-690. doi:10.1001/jamainternmed.2018.0116

17. Eriksen B. A randomized, open, parallel-group study on the preventive effect of an estradiol-releasing vaginal ring (Estring) on recurrent urinary tract infections in postmenopausal women. *Am J Obstet Gynecol*. 1999;180(5):1072-1079. doi:10.1016/s0002-9378(99)70597-1
18. Mitchell CM, Larson JC, Crandall CJ, et al. Association of Vaginal Estradiol Tablet With Serum Estrogen Levels in Women Who Are Postmenopausal: Secondary Analysis of a Randomized Clinical Trial. *JAMA Netw Open*. 2022;5(11):e2241743. doi:10.1001/jamanetworkopen.2022.41743
19. Constantine GD, Graham S, Lapane K, et al. Endometrial safety of low-dose vaginal estrogens in menopausal women: a systematic evidence review. *Menopause*. 2019;26(7):800-807. doi:10.1097/GME.0000000000001315
20. Archer DF, Labrie F, Bouchard C, et al. Treatment of pain at sexual activity (dyspareunia) with intravaginal dehydroepiandrosterone (prasterone). *Menopause*. 2015;22(9):950-963. doi:10.1097/GME.0000000000000428
21. Barton DL, Sloan JA, Shuster LT, et al. Evaluating the efficacy of vaginal dehydroepiandrosterone for vaginal symptoms in postmenopausal cancer survivors: NCCTG N10C1 (Alliance). *Support Care Cancer Off J Multinat Assoc Support Care Cancer*. 2018;26(2):643-650. doi:10.1007/s00520-017-3878-2
22. Labrie F, Archer D, Bouchard C, et al. Intravaginal dehydroepiandrosterone (Prasterone), a physiological and highly efficient treatment of vaginal atrophy. *Menopause*. 2009;16(5):907-922. doi:10.1097/gme.0b013e31819e8e2d
23. Labrie F, Archer DF, Koltun W, et al. Efficacy of intravaginal dehydroepiandrosterone (DHEA) on moderate to severe dyspareunia and vaginal dryness, symptoms of vulvovaginal atrophy, and of the genitourinary syndrome of menopause. *Menopause*. 2018;25(11):1339-1353. doi:10.1097/GME.0000000000001238
24. Portman D, Palacios S, Nappi RE, Mueck AO. Ospemifene, a non-oestrogen selective oestrogen receptor modulator for the treatment of vaginal dryness associated with postmenopausal vulvar and vaginal atrophy: a randomised, placebo-controlled, phase III trial. *Maturitas*. 2014;78(2):91-98. doi:10.1016/j.maturitas.2014.02.015
25. Stephenson J. FDA orders estrogen safety warnings: agency offers guidance for HRT use. *JAMA*. 2003;289(5):537-538. doi:10.1001/jama.289.5.537
26. Research C for DE and. FDA Requests Labeling Changes Related to Safety Information to Clarify the Benefit/Risk Considerations for Menopausal Hormone Therapies. *FDA*. Published online April 8, 2026. Accessed May 26, 2026. <https://www.fda.gov/drugs/drug-alerts-and-statements/fda-requests-labeling-changes-related-safety-information-clarify-benefit-risk-considerations>
27. Crandall CJ, Hovey KM, Andrews CA, et al. Breast cancer, endometrial cancer, and cardiovascular events in participants who used vaginal estrogen in the Women's Health Initiative Observational Study. *Menopause*. 2018;25(1):11-20. doi:10.1097/GME.0000000000000956
28. Beste ME, Kaunitz AM, McKinney JA, Sanchez-Ramos L. Vaginal estrogen use in breast cancer survivors: a systematic review and meta-analysis of recurrence and mortality risks. *Am J Obstet Gynecol*. 2025;232(3):262-270.e1. doi:10.1016/j.ajog.2024.10.054
29. Kaufman MR, Ackerman AL, Amin KA, et al. The AUA/SUFU/AUGS Guideline on Genitourinary Syndrome of Menopause. *J Urol*. 2025;214(3):242-250. doi:10.1097/JU.0000000000004589