

Sexual lubricants: Practice tips

Considerations for making well-informed, tailored recommendations to patients.

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According to the World Health Organization, sexual health promotion is “fundamental to the overall health and well-being of individuals, couples, and families, and to the social and economic development of communities and countries.”¹ In the realm of sexual health and general self-care, lubricants are often recommended to patients to aid with overall sexual satisfaction and to enhance pleasure, especially in the context of self-stimulation, anal play/intercourse, and dyspareunia, or, in patients with vulvas/vaginas, genitourinary syndrome of menopause.² Despite this, patients often don’t know which lubricants to use; commonly disclose that they feel shy about asking; and often use lubricants that may cause or worsen irritation or that may not be compatible with barrier contraception or sexual play aids, enhancers, and toys.

Sexual lubricants are typically liquids or gels designed to reduce friction during sexual activity. There are three types of lubricants available: water-based, silicone-based, and natural oil-based [Table]. In general, products that should *not* be used as lubricants include baby oil, burn ointment, butter, cooking oil, mineral oil, fish oil, suntan oil, hemorrhoid cream, petroleum jelly, and body or hand lotions.

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Vaginal pH is typically between 3.8 and 4.5, while rectal pH is closer to 7.0. Alteration in vaginal pH can lead to vulvovaginitis and is more supportive of HIV survival. According to the World Health Organization, optimally, the osmolality of a water-based lubricant should not exceed 320 mOsm/kg, though a more liberal goal of up to 1200 mOsm/kg is acceptable (note that most of the common, commercially available water-based lubricant products are between 2000 and 6000 mOsm/kg), with a pH between 5.0 and 7.0 for anal intercourse, or around 4.5 if vaginal intercourse is the primary activity.³ Moreover, some lubricants contain spermicides such as nonoxynol-9—a known mucosal irritant that can increase risk of HIV transmission—or additional ingredients that claim benefits like delaying ejaculation

or stimulating effects.³ These ingredients, including local anesthetics such as benzocaine, are not subject to medical regulation and are often irritants that should be used cautiously, if not avoided altogether. This information, which helps patients make an educated decision when choosing what to put inside their bodies, can be challenging to acquire for many commercially available products. Edwards and Panay’s article “Treating vulvovaginal atrophy/genitourinary syndrome of menopause: How important is vaginal lubricant and moisturizer composition?” contains a table listing the osmolality and pH of some common commercially available water-based lubricants and vaginal moisturizers, which may act as a reference guide.⁷

For most patients, when recommending a lubricant, we consider the types of sexual activities the patient engages in; STI/contraceptive barriers involved; sexual aids or toys involved; and skin conditions, known allergies, or tendencies toward yeast or bacterial vaginosis infections. We recommend avoiding products containing glycerin, parabens, propylene glycol, fragrance, flavor, or special ingredients that claim pleasure-enhancing properties. For many patients, if they’re not using silicone sexual aids, a silicone-based lubricant works well and is generally less irritating and better tolerated. However, water-based lubricants are less expensive and more readily available, and we advise that patients who use silicone-based sexual aids keep a water-based lubricant available. To find a water-based lubricant that is iso-osmolar, we suggest that patients consider water-based lubricants rated as being “fertility-friendly” or that clearly advertise as being “iso-osmolar.” If a person is

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TABLE. Different types of sexual lubricants and their associated advantages and disadvantages.

Lubricant type	Compatibility with condoms and sexual aids	Advantages	Disadvantages	Commonly used varieties
Water-based	<ul style="list-style-type: none"> Compatible with all condoms. Compatible with sexual aids and toys of all materials. 	<ul style="list-style-type: none"> Widely available. Generally inexpensive. Universally compatible with condoms and sexual aids. Won't stain sheets. Washes off easily. 	<ul style="list-style-type: none"> Quick-drying due to loss of water molecules; thus can leave sticky residue. May require frequent reapplication. No longevity during use in the shower or bath. Polymers added to reduce absorption increase product osmolality, which can damage vaginal, anal, and rectal cell integrity and increase the risk of STI transmission.³ Many contain potentially irritating preservatives (e.g., parabens) to reduce bacterial colonization.⁴ Flavored, glycerin-containing, and pH-disrupting products will alter vulvovaginal microbiome and may predispose the patient to vulvovaginitis. 	<ul style="list-style-type: none"> K-Y Jelly Wet Astroglide Pre-Seed Good Clean Love Sliquid
Silicone-based (polydimethylsiloxane)	<ul style="list-style-type: none"> Compatible with all condoms (most common manufacturer-applied lubricant on condoms). Not compatible with silicone sexual aids or toys (will degrade the silicone material). 	<ul style="list-style-type: none"> Longer-lasting lubricant effect. More "cushioning" lubricant effect. Dry without leaving significant residue. Inert (e.g., do not grow bacteria or yeast). Do not affect vaginal, anal, or rectal pH. Do not have an osmolar effect. Compatible with latex condoms. Can be used in the shower or bath with a longer-lasting effect. 	<ul style="list-style-type: none"> Generally more expensive. May stain fabrics (e.g., sheets, clothing). Can lead to slip and fall risk if dripped onto bathroom tiles or floors. Not meant to be ingested, though small amounts are relatively safe and not absorbed from the gastrointestinal tract. Flammable. 	<ul style="list-style-type: none"> Uberlube ID Millennium Wet Platinum Lube Life
Natural oil-based	<ul style="list-style-type: none"> Not compatible with latex (e.g., most condoms). Compatible with high-grade silicone aids. Not compatible with other materials or mixed plastics. Compatible with natural membrane (e.g., lambskin) and polyurethane condoms. 	<ul style="list-style-type: none"> Widely available. Longer-lasting effect. Generally inexpensive. Likely the first lubricants used before the advent of commercial products. To date, no evidence of vulvovaginitis with coconut oil and is used as the base medium in commercially available vaginal suppositories.^{5,6} 	<ul style="list-style-type: none"> Might stain fabric (e.g., sheets, clothing). Some oils (e.g., coconut) have innate antimicrobial properties and can disrupt vaginal flora (although coconut oil also has innate antifungal properties, which may have a favorable effect on vaginal flora for some individuals). May be comedogenic. 	<ul style="list-style-type: none"> Unrefined coconut oil Olive oil Sweet almond oil Yes

inclined to use an oil-based lubricant and latex contraceptives are not being used, we typically suggest unrefined or virgin coconut oil, as it is easier to apply due to starting as a solid at room temperature but quickly melting at body temperature. We advise purchasing an unrefined oil and using a spoon to scoop it from the jar to reduce bacterial


contamination of the container. Judicious lubricant use during anal activity is also recommended, as the rectum produces no innate lubricant, and thus the mucosa is highly prone to injury from friction. Generally, silicone-based lubricants work well for anal intercourse that does not involve using a silicone toy, and some with thicker

consistencies are available on the market.


In some circumstances, however, a sexual lubricant may not be enough to treat a patient's symptoms. Patients with vulvas/vaginas who present with sexual pain warrant a thorough history and gentle examination, as chronic skin conditions, vaginismus, and provoked vestibulodynia

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(among other conditions) may be contributing to their discomfort, and lubrication alone is an inappropriate treatment. Consideration for a gynecology or sexual medicine referral should be given in these cases. Moreover, some perimenopausal and postmenopausal patients present having already tried a sexual lubricant yet continue to have dryness related to declining estrogen, which is known as the genitourinary syndrome of menopause. In fact, symptoms of vulvovaginal atrophy affect nearly half of all perimenopausal and postmenopausal individuals.⁸ In these instances, ensuring patients use an appropriate lubricant is prudent if their symptoms are limited to sexual activity. However, adding a longer-acting, pH-balanced vaginal moisturizer or topical estrogen (or dehydroepiandrosterone/prasterone) may be paramount to improving their comfort and symptoms if the patients have no contraindications.⁷ Typically, hypoestrogenic vulvovaginal tissue will be thin and pale, with loss of vaginal rugae. Sexual discomfort may also occur during breastfeeding or chestfeeding due to a hypoestrogenic vulvovaginal environment, and lubricants and vaginal estrogen should be considered for these patients as well. The bottom line is that when a patient presents with sexual health, reproductive, or genital pain concerns, care providers should ask what type of lubricant they're using (if

any) and be well informed to make tailored suggestions compatible with the patient's unique sexual functioning situation. ■

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