Sexual dysfunction in women: Can we talk about it?

ABSTRACT

Sexual dysfunction in women is common and often goes unreported and untreated. Its management is part of patient-centered primary care. Primary care providers are uniquely positioned to identify and assess sexual health concerns of their patients, provide reassurance regarding normal sexual function, and treat sexual dysfunction or refer as appropriate.

KEY POINTS

Sexual dysfunction in women is complex and often multifactorial and has a significant impact on quality of life.

Primary care providers can assess the problem, provide education on sexual health and normal sexual functioning, and manage biological factors affecting sexual function, including genitourinary syndrome of menopause in postmenopausal women and antidepressant-induced sexual dysfunction.

Treatment may require a multidisciplinary team, including a psychologist or sex therapist to manage the psychological, sociocultural, and relational factors affecting a woman’s sexual health, and a physical therapist to manage pelvic floor disorders.

MANY WOMEN experience some form of sexual dysfunction, be it lack of desire, lack of arousal, failure to achieve orgasm, or pain during sexual activity.

Sexual health may be difficult to discuss, for both the patient and the provider. Here, we describe how primary care physicians can approach this topic, assess potential problems, and begin treatment.

A COMMON PROBLEM

The age-adjusted prevalence of sexual dysfunction in US women was reported at 44% in the Prevalence of Female Sexual Problems Associated With Distress and Determinants of Treatment Seeking (PRESIDE) study,1 but the prevalence of distress associated with sexual dysfunction was 12%. The most common type of sexual dysfunction reported by women was low sexual desire, a finding consistent with that of another large population-based study.2

While the prevalence of any type of sexual dysfunction was highest in women over age 65,1 the prevalence of distress was lowest in this age group and highest in midlife between the ages of 45 and 65. The diagnostic criteria require both a problem and distress over the problem.

Sexual dysfunction negatively affects quality of life and emotional health, regardless of age.3

LIFESTYLE AND SEXUAL FUNCTION

Various lifestyle factors have been linked to either more or less sexual activity. For example, a Mediterranean diet was associated with increased sexual activity, as were social activity, social support, psychological well-being, self-reported good quality of life, moderate alcohol...
FEMALE SEXUAL DYSFUNCTION

intake, absence of tobacco use, a normal body
mass index, and exercise.4–6 A higher sense of
purpose in life has been associated with great-
er sexual enjoyment.7

Conversely, sexual inactivity has been
associated with alcohol misuse, an elevated
body mass index, and somatization.4–6

SEXUAL RESPONSE:
LINEAR OR CIRCULAR?

Masters and Johnson8 initially proposed a lin-
er model of human sexual response, which
Kaplan later modified to include desire and
applied to both men and women.9,10 This
model presumed that sexual response begins
with spontaneous sexual desire, followed by
arousal, and then (sometimes) orgasm and
resolution.

In 2000, Basson11 proposed a circular,
imintimacy-based model of sexual response in
women that acknowledged the complexities
involved in a woman's motivation to be sex-
ual (Figure 1). While a woman may enter the
cycle with spontaneous sexual desire, she may
also enter it as sexually neutral, with arousal
in response to a sexual stimulus. Emotional

intimacy is an important part of the cycle, and
emotional closeness and bonding with the
partner may provide motivation for a woman
to enter into the cycle again in the future.

In a Danish survey,12 more people of both
sexes said the 2 linear models described their
experiences better than the circular model,
but more women than men endorsed the cir-
cular model, and more men than women en-
dorsed a linear model.

In evaluating women who complain of low
sexual desire, clinicians should be aware that
women, particularly those who are postmeno-
pausal, may not enter the cycle with spontane-
ous sexual desire, but instead may experience
arousal in response to a sexual stimulus followed
by desire—ie, responsive rather than spontane-
ous sexual desire. Sexual arousal may precede
desire, especially for women in long-term rela-
tionships, and emotional intimacy is a key driver
for sexual engagement in women.11

CATEGORIES OF SEXUAL DYSFUNCTION
IN WOMEN

The World Health Organization defines sex-
ual health as “a state of physical, emotional,
mental, and social well-being in relation to
sexuality” and “not merely the absence of dis-
ease, dysfunction, or infirmity.”13

The Diagnostic and Statistical Manual of
Mental Disorders, Fifth Edition (DSM-5),14
published in 2013, defines three categories of
sexual dysfunction in women:
• Female sexual interest and arousal disorder
• Female sexual orgasmic disorder
• Genitopelvic pain/penetration disorder.

To meet the diagnosis of any of these, symp-
toms must:
• Persist for at least 6 months
• Occur in 75% to 100% of sexual encounters
• Be accompanied by personal distress
• Not be related to another psychological
or medical condition, medication or sub-
stance use, or relationship distress.

Sexual problems may be lifelong or ac-
quired after a period of normal functioning,
and may be situational (present only in cer-
tain situations) or generalized (present in all
situations).

Female sexual interest and arousal disorder
used to be 2 separate categories in earlier edi-

A person
must have both
a sexual health
concern and
distress about
the problem
to receive
the diagnosis

FIGURE 1. The intimacy-based female sexual response
model suggests that while a woman may experience spon-
taneous sexual desire, a desire for emotional closeness or
intimacy may also predispose her to engage in sexual activ-
ity. Biological, psychological, and sociocultural factors may
adversely affect female sexual response.
Adapted with permission from Basson R. Human sex-response cycles.
tions of the DSM. Proponents of merging the 2 categories in DSM-5 cited several reasons, including difficulty in clearly distinguishing desire from other motivations for sexual activity, the relatively low reporting of fantasy in women, the complexity of distinguishing spontaneous from responsive desire, and the common co-occurrence of decreased desire and arousal difficulties.15

Other experts, however, have recommended keeping the old, separate categories of hypoactive sexual desire disorder and arousal disorder.16 The recommendation to preserve the diagnostic category of hypoactive sexual desire disorder is based on robust observational and registry data, as well as the results of randomized controlled trials that used the old criteria for hypoactive sexual desire disorder to assess responses to pharmacologic treatment of this condition.17–19 In addition, this classification as a separate and distinct diagnosis is consistent with the nomenclature used in the International Statistical Classification of Diseases and Related Health Problems, 10th Revision and was endorsed by the International Consultation on Sexual Medicine in 2015.16

### HOW TO ASK ABOUT SEXUAL HEALTH

Assessment of sexual health concerns should be a part of a routine health examination, particularly after childbirth and other major medical, surgical, psychological, and life events. Women are unlikely to bring up sexual health concerns with their healthcare providers, but instead hope that their providers will bring up the topic.20

Barriers to the discussion include lack of provider education and training, patient and provider discomfort, perceived lack of time during an office visit, and lack of approved treatments.21,22 Additionally, older women are less likely than men to discuss sexual health with their providers.23 Other potential barriers to communication include negative societal attitudes about sexuality in women and in older individuals.24,25 To overcome these barriers:

- **Legitimize sexual health** as an important health concern and normalize its discussion as part of a routine clinical health assessment. Prefacing a query about sexual health with a normalizing and universalizing statement can help: eg, “Many women going through menopause have concerns about their sexual health. Do you have any sexual problems or concerns?”

Table 1 contains examples of questions to use for initial screening for sexual dysfunction.22,26

Flynn et al27 proposed a validated single-question checklist to screen for sexual dysfunction that is an efficient way to identify specific sexual concerns, guide selection of interventions, and facilitate patient-provider communication (Table 2).

- **Don’t judge and don’t make assumptions** about sexuality and sexual practices.
- **Assure confidentiality.**
- Use simple, direct language that is appro-

### TABLE 1

**Sexual function screening and assessment**

<table>
<thead>
<tr>
<th>Question</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are you currently sexually active? With men, women, or both?</td>
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<tr>
<td>Do you have any sexual problems?</td>
</tr>
<tr>
<td>How do you describe the problem(s)?</td>
</tr>
<tr>
<td>Were there any triggering events? Are there exacerbating or alleviating factors?</td>
</tr>
<tr>
<td>Is the problem specific to one situation or partner, or is it present in all situations and all partners?</td>
</tr>
<tr>
<td>Are you experiencing any emotional problems that may affect your sexual function, such as stress, anxiety, depression, and guilt?</td>
</tr>
<tr>
<td>Are you experiencing any physical problems that may affect your sexual function, such as pain, fatigue, and medical illness?</td>
</tr>
<tr>
<td>Do you have any concerns about your relationship with your partner?</td>
</tr>
<tr>
<td>Does your partner have any sexual problems?</td>
</tr>
<tr>
<td>Specifically, do you have any distress related to:</td>
</tr>
<tr>
<td>Your level of sexual desire or interest?</td>
</tr>
<tr>
<td>Your ability to become or stay sexually aroused (vaginal lubrication, warmth or tingling feelings in genitals)?</td>
</tr>
<tr>
<td>Your ability to experience, or the intensity of, orgasm?</td>
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<tr>
<td>Are you experiencing any genital pain, specifically:</td>
</tr>
<tr>
<td>Vaginal dryness or burning?</td>
</tr>
<tr>
<td>Painful sexual activity (insertional or deeper pain)?</td>
</tr>
<tr>
<td>Genital pain not associated with sexual activity?</td>
</tr>
<tr>
<td>What treatments have you tried? How effective have they been?</td>
</tr>
</tbody>
</table>

FEMALE SEXUAL DYSFUNCTION

Women are unlikely to bring up sexual health concerns with their healthcare provider, but instead hope that their provider will bring up the topic.

TABLE 2
A screening question for sexual dysfunction

In the past 12 months, has there ever been a period of 3 months or more when you had any of the following problems or concerns? Check all that apply.

- You wanted to feel more interest in sexual activity
- You had difficulty with erections (penis getting hard or staying hard) (men only)
- Your vagina felt too dry (women only)
- You had pain during or after sexual activity
- You had difficulty having an orgasm
- You felt anxious about sexual activity
- You did not enjoy sexual activity
- Some other sexual problem or concern
- No sexual problems or concerns


If appropriate for the patient’s age, ethnicity, culture, and level of health literacy,3 take a thorough history (sexual and reproductive, medical-surgical, and psychosocial).

PHYSICAL EXAMINATION

Perform a focused physical examination to evaluate for potential causes of pain (e.g., infectious causes, vulvar dermatoses, pelvic floor muscle dysfunction). The examination is also an opportunity to teach the patient about anatomy and normal sexual function.

No standard laboratory tests or imaging studies are required for the assessment of sexual dysfunction.28

IT’S NOT JUST PHYSICAL

Evaluation and treatment of female sexual dysfunction is guided by the biopsychosocial model, with potential influences from the biological, psychological, sociocultural, and interpersonal realms (Table 3).29,30

Biological factors include pelvic surgery, cancer and its treatment, neurologic diseases, and vascular diseases. Medications, including antidepressants, narcotics, anticholinergics, antihistamines, antihypertensives, oral contraceptives, and antiestrogens may also adversely affect sexual response.26

Psychological factors include a history of sexual abuse or trauma, body image concerns, distraction, stress, anxiety, depression, and personality disorders.12

Sociocultural factors include lack of sex education, unrealistic expectations, cultural norms, and religious influences.

Relationship factors include conflict with one’s partner, lack of emotional intimacy, absence of a partner, and partner sexual dysfunction. While there appears to be a close link between sexual satisfaction and a woman’s relationship with her partner in correlational studies and in clinical experience, there has been little research about relationship factors and their contribution to desire and arousal concerns.31 Sexual dysfunction in one’s partner (e.g., erectile dysfunction) has been shown to negatively affect the female partner’s sexual desire.12

GENERAL APPROACH TO TREATMENT

In treating sexual health problems in women, we address contributing factors identified during the initial assessment.

A multidisciplinary approach

As sexual dysfunction in women is often multifactorial, management of the problem is well suited to a multidisciplinary approach. The team of providers may include:

- A medical provider (primary care provider, gynecologist, or sexual health specialist) to coordinate care and manage biological factors contributing to sexual dysfunction
- A physical therapist with expertise in treating pelvic floor disorders
- A psychologist to address psychological, relational, and sociocultural contributors to sexual dysfunction
- A sex therapist (womenshealthapta.org, aasect.org) to facilitate treatment of tight, tender pelvic floor muscles through education and guidance about kinesthetic awareness, muscle relaxation, and dilator therapy.33

Even in the initial visit, the primary care provider can educate, reassure regarding normal sexual function, and treat conditions such as genitourinary syndrome of menopause and antidepressant-associated sexual dysfunction.
The PLISSIT model (Permission, Limited Information, Specific Suggestions, and Intensive Therapy) is a useful tool for initiating counseling about sexual health (Table 4).34

■ AGING VS MENOPAUSE
Aging can affect sexual function in both men and women. About 40% of women experience changes in sexual function around the menopausal transition, with common complaints being loss of sexual responsiveness and desire, sexual pain, decreased sexual activity, and partner sexual dysfunction.35 However, studies seem to show that while menopause results in hormonal changes that affect sexual function, other factors may have a greater impact.

The Study of Women’s Health Across the Nation36 found vaginal and pelvic pain and decreased sexual desire were associated with the menopausal transition, but other sexual health outcomes (frequency of sexual activities, arousal, importance of sex, emotional satisfaction, or physical pleasure) were not. Physical and psychological health, marital status, and a change in relationship were all associated with differences in sexual health.

The Massachusetts Women’s Health Study II37 found a greater association between physical and mental health, relationship status, and smoking and women’s sexual functioning than menopausal status.

The Penn Ovarian Aging Study38 found that sexual function declined across the menopausal transition. Risk factors for sexual dysfunction included postmenopausal status, anxiety, and absence of a sexual partner.

The Melbourne Women’s Midlife Health Project39 also found that sexual function declined across the menopausal transition. Sexual dysfunction with distress was associated with relationship factors and depression.37

Genitourinary syndrome of menopause and its treatment
As the ovaries shut down during menopause, estradiol levels decrease. Nearly 50% of women experience symptoms related to genitourinary syndrome of menopause (formerly called atrophic vaginitis or vulvovaginal atrophy).40-41 These symptoms include vaginal dryness and discomfort or pain with sexual activity, but menopausal hormone loss can also result in reduced genital blood flow, decreased sensory perception, and decreased sexual responsiveness.32

Estrogen is the most effective treatment for genitourinary syndrome of menopause, with low-dose vaginal preparations preferred over systemic ones for isolated vulvar and vaginal symptoms.40 While estrogen is effective for vaginal dryness and sexual pain associated with estrogen loss, replacing estrogen systemically has not been associated with improvements in sexual desire.42

■ DEPRESSION AND ANTIDEPRESSANT-INDUCED SEXUAL DYSFUNCTION
Depression increases the risk of sexual dysfunction, and vice versa.

A meta-analysis that included 12 studies involving almost 15,000 patients confirmed that depression increased the risk of sexual dysfunction, and sexual dysfunction increased the risk of depression.43 This interaction may be related to the overlap in affected neurotransmitters and neuroendocrine systems.44

In the Sequenced Treatment Alternatives to Relieve Depression trial, Ishak et al45 found that patients treated with a selective serotonin reuptake inhibitor (SSRI) who experienced remission of depression had a lower prevalence of impaired sexual satisfaction and much greater improvements in sexual satisfaction than did those who remained depressed.

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### TABLE 3
Factors that can contribute to female sexual dysfunction

<table>
<thead>
<tr>
<th>Biological factors</th>
<th>Medications, hormonal status, neurobiology, physical health, aging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychological factors</td>
<td>Depression, anxiety, self image, substance abuse, history of sexual abuse or trauma</td>
</tr>
<tr>
<td>Sociocultural factors</td>
<td>Upbringing, cultural norms and expectations, religious influences</td>
</tr>
<tr>
<td>Interpersonal factors</td>
<td>Relationship status and quality, partner sexual function, life stressors</td>
</tr>
</tbody>
</table>

Replacing estrogen systemically has not been associated with improvements in sexual desire

The severity of depressive symptoms predicted impairment in sexual satisfaction, which in turn predicted poorer quality of life. The authors suggested that physicians encourage patients to remain on SSRI treatment, given that improvement in depressive symptoms is likely to improve sexual satisfaction.

Antidepressant-induced sexual dysfunction
As many as 70% of patients taking an SSRI or serotonin-norepinephrine reuptake inhibitor (SNRI) experience antidepressant-induced sexual dysfunction, though this is difficult to estimate across studies of different medications due to differences in methods and because many patients only report it when directly asked about it.46

Treatment of antidepressant-induced sexual dysfunction includes not only optimal management of depression but reassessment of the antidepressant treatment. If using only nondrug treatments for the mood disorder is not feasible, switching to (or ideally, starting with) an antidepressant with fewer sexual side effects such as mirtazapine, vilazodone, or bupropion is an option.46

A drug holiday (suspending antidepressant treatment for 1 or 2 days) has been suggested as a means of treating antidepressant-induced sexual dysfunction, but this may result in poorer control of depressive symptoms and discontinuation symptoms, and it encourages medication noncompliance.46,47

Treatment with a phosphodiesterase type 5 inhibitor (eg, sildenafil) has been studied in women with antidepressant-induced sexual dysfunction, with modest results.48

A Cochrane review reported that treatment with bupropion shows promise at higher doses (300 mg daily).49

Exercise for 20 minutes 3 times weekly is associated with improvement in antidepressant-induced sexual dysfunction when the exercise is performed immediately before sexual activity.50

LOW SEXUAL DESIRE

Hypoactive sexual desire disorder is defined as persistent or recurrent deficiency or absence of sexual fantasies and desire for sexual activity associated with marked distress and not due exclusively to a medication, substance abuse, or a medical condition.

Low or decreased sexual desire is the most commonly reported sexual health concern in women of all ages, with an unadjusted prevalence of 39.7%. When the criterion of personal distress is included, the prevalence is 8.9% in women ages 18 to 44, 12.3% in women ages 45 to 64, and 7.4% in women ages 65 and older.1

Multiple biological, psychological, and social factors may contribute to the problem. Identifying the ones that are present can help in planning treatment. A multifaceted approach may be appropriate.

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TABLE 4
Talking about sex: The PLISSIT model

Permission: Give patient permission to speak about sexual health and validate her sexual choices and preferences (eg, legitimize her decision to participate in sexual activity on her own terms).

Limited information: Provide basic sex education regarding anatomy, physiology, and normal sexual response; offer educational resources (eg, literature, videos, and erotica).

Specific suggestions: Provide concrete suggestions to improve/enhance sexual function (eg, lubricant, vibrator or dilator use, self-stimulation, technical advice about sexual positioning, ways to increase emotional intimacy and communication).

Intensive therapy: Validate patient’s sexual health concerns and refer to specialist (eg, individual, couples, or sex therapy).

PLISSIT = Permission, Limited Information, Specific Suggestions, and Intensive Therapy

Mindfulness and cognitive behavioral therapy for low sexual desire

Mindfulness-based cognitive therapy is designed to improve awareness, focusing on and accepting the present moment, and directing attention away from and lessening self-criticism and evaluation of one’s sexual responsiveness. Mindfulness-based therapy has been associated with improvements in sexual desire and associated distress. Similarily, the effectiveness of cognitive behavioral therapy for treating hypoactive sexual desire disorder is supported by 3 controlled trials, although concerns exist about the adequacy of these trials, and further study is needed.

Androgen therapy in women

In randomized controlled trials in women with low sexual desire who were either naturally or surgically menopausal, sexual function improved with testosterone therapy that resulted in mostly supraphysiologic total testosterone levels (which may not reflect free testosterone levels) with or without concurrent estrogen treatment. Testosterone is not approved by the US Food and Drug Administration (FDA) for use in women, primarily because of the lack of long-term safety and efficacy data (ie, beyond 24 months). However, studies have shown no evidence of increased risk of endometrial cancer or cardiovascular disease with testosterone dosed to achieve physiologic premenopausal levels. Data on breast cancer risk are less clear, but observational studies over the last decade do not support an association with testosterone use in women. There is no clearly defined androgen deficiency syndrome in women, and androgen levels do not reliably correlate with symptoms.

The Endocrine Society guidelines endorse the use of testosterone in postmenopausal women with hypoactive sexual desire disorder. They say to aim for the midnormal premenopausal range and suggest discontinuing the drug if there is no response in 6 months. They recommend checking testosterone levels at baseline, after 3 to 6 weeks of therapy, and every 6 months to monitor for excessive use, to avoid supraphysiologic dosing and to evaluate for signs of androgen excess (eg, acne, hair growth). The use of products formulated for

Flibanserin

A postsynaptic serotonin 5-HT1A receptor agonist and 5-HT2A receptor agonist, flibanserin was approved by the FDA in 2015 for treatment of hypoactive sexual desire disorder in premenopausal women. Its mechanism of action is likely through an effect on neurotransmitters that suppress serotonin (which has sexually inhibitory effects) and promotes dopamine and norepinephrine (which have excitatory effects).

The efficacy of flibanserin has been demonstrated in 3 randomized controlled trials, with significant increases in the number of sexually satisfying events and in sexual desire scores and a decrease in distress associated with low sexual desire. While the increase in sexually satisfying events was modest (about 1 extra event per month), some have suggested that the frequency of sexual activity may not be the best measure of sexual function in women. Further, responders to this drug showed a return to near-normal premenopausal frequencies of sexual activity in a separate analysis.

The drug is generally well tolerated, with common adverse effects being somnolence, dizziness, and fatigue. Flibanserin has been associated with orthostatic hypotension with alcohol use and carries a boxed warning highlighting this potential interaction. Use of this drug is contraindicated in women who drink alcohol or take medications that are moderate or strong inhibitors of CYP-3A4 (eg, some antiretroviral drugs, antihypertensive drugs, antibiotics, and fluconazole, which can increase systemic exposure to flibanserin and potential side effects), and in those with liver impairment.

SEXUAL AROUSAL DISORDERS

Female sexual arousal disorder is the persistent or recurrent inability to attain or maintain an adequate lubrication-swelling response of sexual excitement. Sexual arousal results from a complex interaction between genital response, central nervous system activity, and...
information processing of the sexual stimulus. Difficulty with sexual arousal can result from neurovascular or neuroendocrine dysfunction or impaired central nervous system processing. Women may experience a mismatch between subjective and objective genital arousal. A subjective report of decreased genital arousal may not be confirmed with measurement of vaginal pulse amplitude by photoplethysmography. Even in postmenopausal women, in the absence of significant neurovascular or neuroendocrine dysfunction, it is likely that either contextual or relational variables resulting in inadequate sexual stimulation or cognitive inhibition are more important factors contributing to difficulty with sexual arousal.

Although there are no standard recommendations for evaluation of arousal disorders and advanced testing is often unnecessary, nerve function can be assessed with genital sensory testing utilizing thermal and vibratory thresholds; vaginal blood flow can be assessed with vaginal photoplethysmography; and imaging of the spine and pelvis can help to rule out neurovascular pathology.

Treatment of arousal disorders
As with other forms of female sexual dysfunction, treatment of arousal disorders includes addressing contributing factors.

Although there are few data from randomized controlled trials, psychological treatments such as sensate focus exercises and masturbation training have been suggested, centered on women becoming more self-focused and assertive. Sensate focus exercises are a series of graded, nondemand, sensual touching exercises aimed at reducing anxiety and avoidance of sexual activity, and improving sexual communication and intimacy by the gradual reintegration of sexual activity. More recently, mindfulness-based cognitive therapy has been associated with improvements in sexual arousal as well as other parameters of sexual function.

Currently, no pharmacologic treatments are recommended for arousal disorders because of a lack of evidence of efficacy and because of adverse effects.

ORGASMIC DISORDER
Female orgasmic disorder is the marked delay, marked infrequency, or absence of orgasm, or markedly reduced intensity of orgasm.

Important considerations in evaluating orgasm disorders include psychosocial factors (eg, lack of sex education, negative feelings about sex, religiosity), psychological factors (eg, anxiety, depression, body image concerns), relational factors (eg, communication issues, lack of emotional intimacy, partner sexual dysfunction), adverse childhood or adult experiences (eg, physical, sexual, or emotional or verbal abuse), medical history (pelvic surgery, neurologic, or vascular disease) and medications (eg, SSRIs, SNRIs, and antipsychotic medications).

Treatment of orgasmic disorder
Involving the partner in treatment is important, particularly if the difficulty with orgasm is acquired and only occurs with sex with a partner. Using the PLISSIT model to provide targeted, office-based interventions can be helpful.

Behavioral therapies such as directed masturbation, sensate focus exercises, or a combination of these have been shown to be effective, as has coital alignment during intercourse (positioning of male partner with his pelvis above the pubic bone of his partner to maximize clitoral stimulation with penile penetration).

Hormonal therapy may be useful in postmenopausal women. However, there are no data on it for women whose primary complaint is female orgasmic disorder, and further study is needed.

SEXUAL PAIN DISORDERS
The DSM-5 describes genitopelvic pain/penetration disorder as fear or anxiety, marked tightening or tensing of abdominal and pelvic muscles, or actual pain with vaginal penetration that is recurrent or persistent for a minimum of 6 months. Pain may occur with initial penetration, with deeper thrusting, or both.

Although the DSM-5 definition focuses on pain with penetration, it is important to recognize and ask about noncoital sexual pain. Women may also present with persistent vulvar pain or pain at the vulvar vestibule with provocation, (eg, sexual activity, tampon insertion, sitting), also known as provoked vestibulodynia.
Assessment of vaginal and vulvar pain includes a directed history and physical examination aimed at identifying potential etiologies or contributing factors, including infectious, inflammatory, neoplastic, neurologic, traumatic, iatrogenic, or factors related to hormonal deficiency.67

Treatment of sexual pain
Removal of offending agents is a first step. This includes a thorough review of vaginal and vulvar hygiene practices and emphasis on avoiding the use of any product containing potential irritants (eg, soaps or detergents containing perfumes or dyes) and using lubricants and moisturizers without gimmicks (no warming or tingling agents or flavors). Oral contraceptives have been associated with vestibulodynia, and women in whom the sexual pain started when they started an oral contraceptive may benefit from switching to an alternate form of contraception.68

Dysfunction of pelvic floor muscles may result in sexual pain and may be a primary problem or a secondary complication related to other issues such as symptomatic genitourinary syndrome of menopause. The symptoms of nonrelaxing pelvic floor dysfunction (also known as hypertonic pelvic floor dysfunction or pelvic floor tension myalgia) include pain in the pelvis with sexual activity that may linger for hours or even days, and may also include bowel and bladder dysfunction and low back pain or hip pain radiating to the thighs or groin.33 Physical therapy under the care of a physical therapist with expertise in the management of pelvic floor disorders is the cornerstone of treatment for this condition.33

Treatment of the genital and urinary symptoms related to loss of estrogen after menopause (genitourinary syndrome of menopause) includes the use of vaginal lubricants with sexual activity and vaginal moisturizers on a regular basis (2 to 5 times per week).40 Low-dose vaginal estrogen creams, rings, or tablets and the oral selective estrogen receptor antagonist ospemifene are recommended for moderate to severe symptoms of genitourinary syndrome of menopause.40 Intravaginal dehydroepiandrosterone was recently approved by the FDA for treatment of dyspareunia associated with menopause.69 Topical lidocaine applied to the introitus before sexual activity has been found to be effective for reducing sexual pain in women with breast cancer, and when used in combination with vaginal lubricants and moisturizers is a practical option for women, particularly those unable to use estrogen-based therapies.70

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