

Female Sexual Health: Effects After Surgery and Treatment Options

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Agenda

- Menopausal effects on sexual function/genital tissue
- Screening for symptoms
- Genitourinary Syndrome of Menopause
- First line non-hormonal treatments
- Pharmacologic treatment
- Pelvic floor dysfunction
- Hot flashes
- Changes in libido

Note: Even though this presentation is titled Female Sexual Health, I want to recognize and support the gender diversity of all individuals with cancer seeking sexual healthcare.

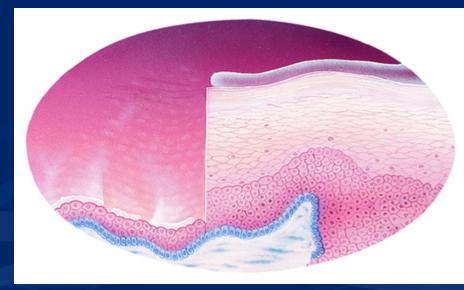
Premature Menopause

Treatment effects

- S/p bilateral oophorectomy
- Combination of hysterectomy and pelvic radiation therapy
- Similar effects s/p gonadotoxic chemotherapy and endocrine therapy causing estrogen deprivation

Causes

• Hormonal, physical, and psychological consequences that affect sexual wellbeing



https://www.uptodate.com/contents/search?search=atrophic%20vaginitis&sp=0&searchType=PLAIN_TE XT&source=USER_INPUT&searchControl=TOP_PULLDOWN&searchOffset=1&autoComplete=false&lan guage=&max=0&index=&autoCompleteTerm=&rawSentence=

Menopause

- Hot flashes
- Depression
- Poor sleep
- Decreased libido
- Vaginal dryness



https://tabythagirl.wordpress.com/tag/meme/

Screening for Sexual Function/Satisfaction

- Formal instruments
 - FSFI
 - Desire, arousal, lubrication, orgasm, satisfaction, pain
 - Sexual activity questionnaire
 - Self-report of sexual activity
 - Female sexual distress scale
 - Sexual function questionnaire
 - Desire, physical arousal-sensation, physical arousal-lubrication, enjoyment, orgasm, pain and partner relationship
- Not all patients are sexually active, concerns are more about daily comfort
- Screen patients at all visits!

Genitourinary Syndrome of Menopause (GSM)

Genital symptoms: vulvovaginal dryness, burning, irritation Sexual symptoms: lack of lubrication, pain Urinary symptoms: urgency, dysuria, recurrent UTIs



https://www.beautifulcervix.com/project/age-25-entire-cycle/ https://oacapps.med.jhmi.edu/OBGYN-101/Text/Pap/Atrophy.htm

First line treatment of GSM

- Moisturizers
 - Polycarbophil
 - Hyaluronic Acid
 - Oil based products (Coconut oil, vitamin E)
- Lubricants with all sexual activity
 - Water-based
 - Silicone-based
 - Oil-based (not compatible with condoms)
- Vulvar irritants: benzyl alcohol, benzocaine, chlorohexidine, propylene glycol, glycerin, parabens, latex, lanolin; avoid warming, flavors, spermicides, bactericides
- Osmolality of product can be associated with mucosal irritation
 - WHO recommends osmolality of vaginal products not to exceed 380mOSm/kg
- Other topical recommendations
 - Aquaphor as a skin protectant/moisture sealant
 - Note: ointments often more tolerable than cream-based products

Pharmacologic treatment of GSM

- Among individuals with history of hormone sensitive cancer, there is uncertainty about the safety, leading
 many patients with bothersome symptoms to remain untreated with negative consequences on quality of
 life
- Vaginal Estrogen
- Vaginal DHEA
 - Vaginal Prasterone 6.5mg PV QHS- FDA approved- caution use in suspected/known BCA
 - Elevations in DHEA, T, estradiol but all remained in lowest half or quartile of postmenopausal range. *Additional studies needed*
- Vaginal Testosterone *Not FDA approved
- SERM (Ospemifene): 60mg PO once daily, side effects include hot flashes and increased risk of VTE *Not FDA approved in patients with breast cancer
- Topical Lidocaine- 5% lidocaine ointment for introital/insertional pain
- Vaginal laser treatments *Not FDA approved

Vaginal Estrogen

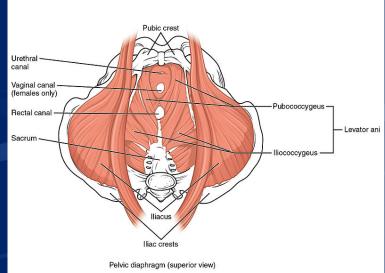
- Estradiol capsule
 - Newest; FDA approval in 2018
 - Lowest dose formulation, available in 4 and 10mcg twice weekly
- Estradiol tablet
 - 10 mcg tablet PV QHS x 2 weeks then 2x/wk
- Vaginal Ring
 - Delayed release ring placed in upper vagina x 90 days releasing 7.5mcg per day
- Creams higher concentration, larger surface area, overuse concerns
 - 17β Estradiol cream
 - Conjugated equine estrogen

Pelvic floor dysfunction

- Common regardless of cancer diagnosis, affecting >30% of women
- Increases with age
- Pelvic surgery and radiation may exacerbate an underlying problem or cause scarring
- Non-relaxing "high tone" pelvic floor & pelvic floor laxity
- Pelvic floor dysfunction symptoms may include <u>pelvic pain</u>, problems with defecation, urination, sexual <u>function</u>
- High tone pelvic floor often seen in women with sexual pain

Treatment:

- Pelvic Floor PT: education, manual therapy, exercises, biofeedback
- Vaginal Dilators
- Trigger point injections
- Vaginal diazepam use



https://www.physio-pedia.com/Pelvic_Floor_Muscle_Function_and_Strength

Dilators

Use at least 3x/wk with lubricant for 5-10 minutes

Indications:

- Pelvic floor muscle tension
- Prevent narrowing and scarring after pelvic radiation
- Build confidence prior to engaging in penetrative sex
- Menopause
- Other Devices
 - Silicone dilators
 - Curved tip dilators
 - Pelvic wand
 - Vibrators
 - Oh Nut
 - Elvie Pelvic Trainer
 - Milli Vaginal Trainer

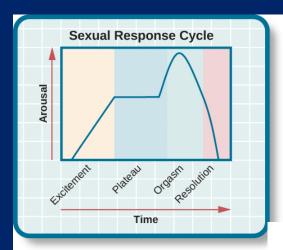


Hot flashes

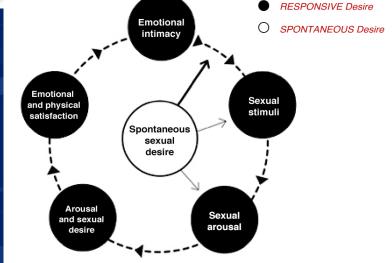
- Acupuncture
- Herbal supplements *caution, few are effective*
 - Swedish Flower pollen extract (Sérélys) has been beneficial, preclinical studies did not find estrogenic activity. No studies in cancer population
- Oxybutynin (Off-label use of hyperhidrosis)
 - ER: 5-10mg once daily
 - IR: 2.5mg once daily and titrate up to 5-10mg/day in 2 divided doses
- SSRIs
 - Paroxetine (FDA approved for treatment of vasomotor symptoms)
 - 7.5mg IR PO capsule once daily at bedtime
 - Interaction with TAN
 - Escitalopram and Citalopram (off-label use)
 - Escitalopram: 10 mg PO once daily, increase to 20 mg once daily after 4 weeks if symptoms not adequately controlled
 - Citalopram: 10 mg PO once daily; may increase dose to 20 mg once daily after 1 week.
 - No benefit with sertraline or fluoxetine
- SNRI
 - Venlafaxine (off-label use): *IR and ER hydrochloride*: Initial: 37.5 mg once daily; may increase dose after ≥1 week based on response and tolerability to 75 mg once daily for ER hydrochloride or 75 mg/day in 2 to 3 divided doses for immediate release
- Gabapentin (off-label use)
 - GABA Analog
 - IR: 100mg PO once daily at bedtime, can titrate up to 600 mg to 2.4 g/day in 2 to 3 divided doses
 - ER: 600 mg once daily at bedtime; increase gradually (eg, 600 mg every 3 days) to target dose of 600 mg in the morning and 1.2 g at bedtime

Hypoactive sexual desire/Low Libido

- Address underlying cause
 - Exercise
 - Sleep
 - Mindfulness
 - Couples counseling/Sex therapy
- Bupropion
 - Off-label use for Selective serotonin reuptake inhibitorinduced sexual dysfunction
 - *12-hour extended release (sustained release)*: Oral: Initial: 150 mg once daily for the first 3 days; increase to 150 mg twice daily, based on response and tolerability
 - Interaction with TAN
- Newer pharmaceutical interventions
 - Flibanserin *Only FDA approved for pre-menopausal patients and for libido changes NOT due to medical conditions
 - Mixed 5-HT_{1A} Agonist/5-HT_{2A} Antagonist
 - 100mg once daily at bedtime, evaluate efficacy at 8 weeks
 - Bremelanotide *Only FDA approved for pre-menopausal patients and for libido changes NOT due to medical conditions
 - Melanocortin Receptor Agonist
 - SUBQ: 1.75 mg as needed, ≥45 minutes before sexual activity (maximum: 1.75 mg/24 hours). No more than 8 doses per month are recommended.



https://opened.cuny.edu/courseware/module/6 3/student/?task=4



https://www.therelationshipblog.net/2016/08/female-sexual-responsiveness/

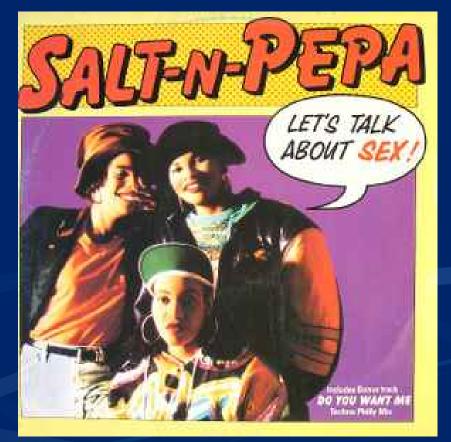




Miami Cancer Institute

Thank You!

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http://dodisoldmusic.blogspot.com/2010/08/salt-n-pepa-lets-talk-about-sex-cdm.html

References

- American College of Obstetricians and Gynecologists' Committee on Clinical Consensus—Gynecology. Treatment of Urogenital Symptoms in Individuals With a History of Estrogen-dependent Breast Cancer: Clinical Consensus. Obstet Gynecol. 2021 Dec 1;138(6):950-960. doi: 10.1097/AOG.0000000004601. PMID: 34794166.
- Barton DL, Sloan JA, Shuster LT, Gill P, Griffin P, Flynn K, Terstriep SA, Rana FN, Dockter T, Atherton PJ, Tsai M, Sturtz K, Lafky JM, Riepl M, Thielen J, Loprinzi CL. Evaluating the efficacy of vaginal dehydroepiandosterone for vaginal symptoms in postmenopausal cancer survivors: NCCTG N10C1 (Alliance). Support Care Cancer. 2018 Feb;26(2):643-650. doi: 10.1007/s00520-017-3878-2. Epub 2017 Sep 18. PMID: 28921241; PMCID: PMC5754227.
- Eugster-Hausmann M, Waitzinger J, Lehnick D. Minimized estradiol absorption with ultra-low-dose 10 microg 17beta-estradiol vaginal tablets. Climacteric. 2010 Jun;13(3):219-27. doi: 10.3109/13697137.2010.483297. PMID: 20423242.
- Faubion SS, Larkin LC, Stuenkel CA, Bachmann GA, Chism LA, Kagan R, Kaunitz AM, Krychman ML, Parish SJ, Partridge AH, Pinkerton JV, Rowen TS, Shapiro M, Simon JA, Goldfarb SB, Kingsberg SA.
 Management of genitourinary syndrome of menopause in women with or at high risk for breast cancer: consensus recommendations from The North American Menopause Society and The International Society for the Study of Women's Sexual Health. Menopause. 2018 Jun;25(6):596-608. doi: 10.1097/GME.000000000001121. PMID: 29762200.
- Grady D. Clinical practice. Management of menopausal symptoms. N Engl J Med. 2006 Nov 30;355(22):2338-47. doi: 10.1056/NEJMcp054015. PMID: 17135587.
- Krause MS, Nakajima ST. Hormonal and nonhormonal treatment of vasomotor symptoms. Obstet Gynecol Clin North Am. 2015 Mar;42(1):163-79. doi: 10.1016/j.ogc.2014.09.008. Epub 2014 Dec 2. PMID: 25681847.
- Leon-Ferre RA, Novotny PJ, Wolfe EG, Faubion SS, Ruddy KJ, Flora D, Dakhil CSR, Rowland KM, Graham ML, Le-Lindqwister N, Smith TJ, Loprinzi CL. Oxybutynin vs Placebo for Hot Flashes in Women With or Without Breast Cancer: A Randomized, Double-Blind Clinical Trial (ACCRU SC-1603). JNCI Cancer Spectr. 2019 Oct 21;4(1):pkz088. doi: 10.1093/jncics/pkz088. PMID: 32337497; PMCID: PMC7050158.
- Melisko, ME. Et al. 2017, Vaginal testosterone cream vs Estradiol vaginal ring for vaginal dryness or decreased libido in women receiving aromatase inhibitors for early-stage breast cancer: A randomized Clinical Trial; JAMA Oncol. 1;3(3): 313-319
- Pereira VM, Arias-Carrión O, Machado S, Nardi AE, Silva AC. Bupropion in the depression-related sexual dysfunction: a systematic review. CNS Neurol Disord Drug Targets. 2014;13(6):1079-88. doi: 10.2174/1871527313666140612112630. PMID: 24923342.
- Stone RH, Abousaud M, Abousaud A, Kobak W. A Systematic Review of Intravaginal Diazepam for the Treatment of Pelvic Floor Hypertonic Disorder. J Clin Pharmacol. 2020 Dec;60 Suppl 2:S110-S120. doi: 10.1002/jcph.1775. PMID: 33274514.
- Stuenkel CA, Davis SR, Gompel A, Lumsden MA, Murad MH, Pinkerton JV, Santen RJ. Treatment of Symptoms of the Menopause: An Endocrine Society Clinical Practice Guideline. J Clin Endocrinol Metab. 2015 Nov;100(11):3975-4011. doi: 10.1210/jc.2015-2236. Epub 2015 Oct 7. PMID: 26444994.
- Sussman TA, Kruse ML, Thacker HL, Abraham J. Managing Genitourinary Syndrome of Menopause in Breast Cancer Survivors Receiving Endocrine Therapy. J Oncol Pract. 2019 Jul;15(7):363-370. doi: 10.1200/JOP.18.00710. PMID: 31291563.
- "The 2022 Hormone Therapy Position Statement of The North American Menopause Society" Advisory Panel. The 2022 hormone therapy position statement of The North American Menopause Society. Menopause.
 2022 Jul 1;29(7):767-794. doi: 10.1097/GME.00000000002028. PMID: 35797481.
- Zhang Y, Sun Y, Li D, Liu X, Fang C, Yang C, Luo T, Lu H, Li H, Zhang H, Liang Q, Wu J, Huang L, Xu R, Ren L, Chen Q. Acupuncture for Breast Cancer: A Systematic Review and Meta-Analysis of Patient-Reported Outcomes. Front Oncol. 2021 Jun 10;11:646315. doi: 10.3389/fonc.2021.646315. PMID: 34178633; PMCID: PMC8222976.