

THE EMOTIONAL JOURNEY OF VULVODYNIA

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NO DISCLOSURES

AI WAS USED TO HELP WITH LITERATURE REVIEW



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C...	Provider Video	Status	Time	Type	Notes
		Scheduled	3:00 PM	HOME TELEHEALTH	Vulvodynia



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LEARNING OBJECTIVES



- Define vulvodynia and its subtypes



- Review symptom presentation and outline diagnostic approach



- Discuss evidence-based treatment strategies and highlight emerging research directions

DEFINITION & EPIDEMIOLOGY

- Chronic vulvar pain ≥ 3 months without identifiable cause
- Prevalence: 8–16% of women
- Often underdiagnosed

DIFFERENTIAL DIAGNOSIS

Infections

Dermatoses

Neoplasia

Trauma

Hypoestrogenic
state/long term
hormonal
suppression

Neurologic

Postoperative

A. Vulvar pain caused by a specific disorder*

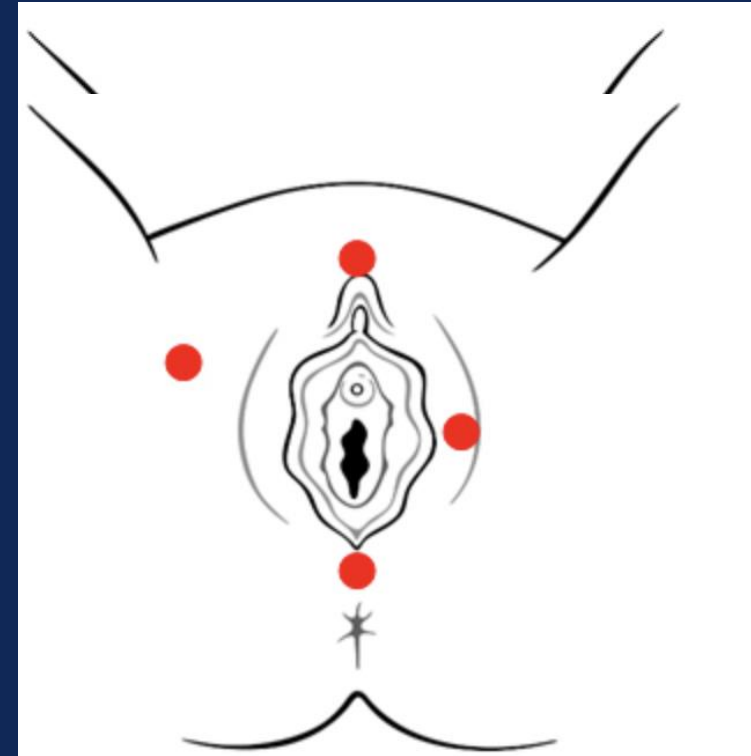
- Infectious (eg, recurrent candidiasis, herpes)
- Inflammatory (eg, lichen sclerosus, lichen planus, immunobullous disorders)
- Neoplastic (eg, Paget disease, squamous cell carcinoma)
- Neurologic (eg, postherpetic neuralgia, nerve compression or injury, neuroma)
- Trauma (eg, female genital cutting, obstetrical)
- Iatrogenic (eg, postoperative, chemotherapy, radiation)
- Hormonal deficiencies (eg, genitourinary syndrome of menopause [vulvovaginal atrophy], lactational amenorrhea)

B. Vulvodynia—vulvar pain of at least 3 months' duration, without clear identifiable cause, which may have potential associated factors.

The following are the descriptors:

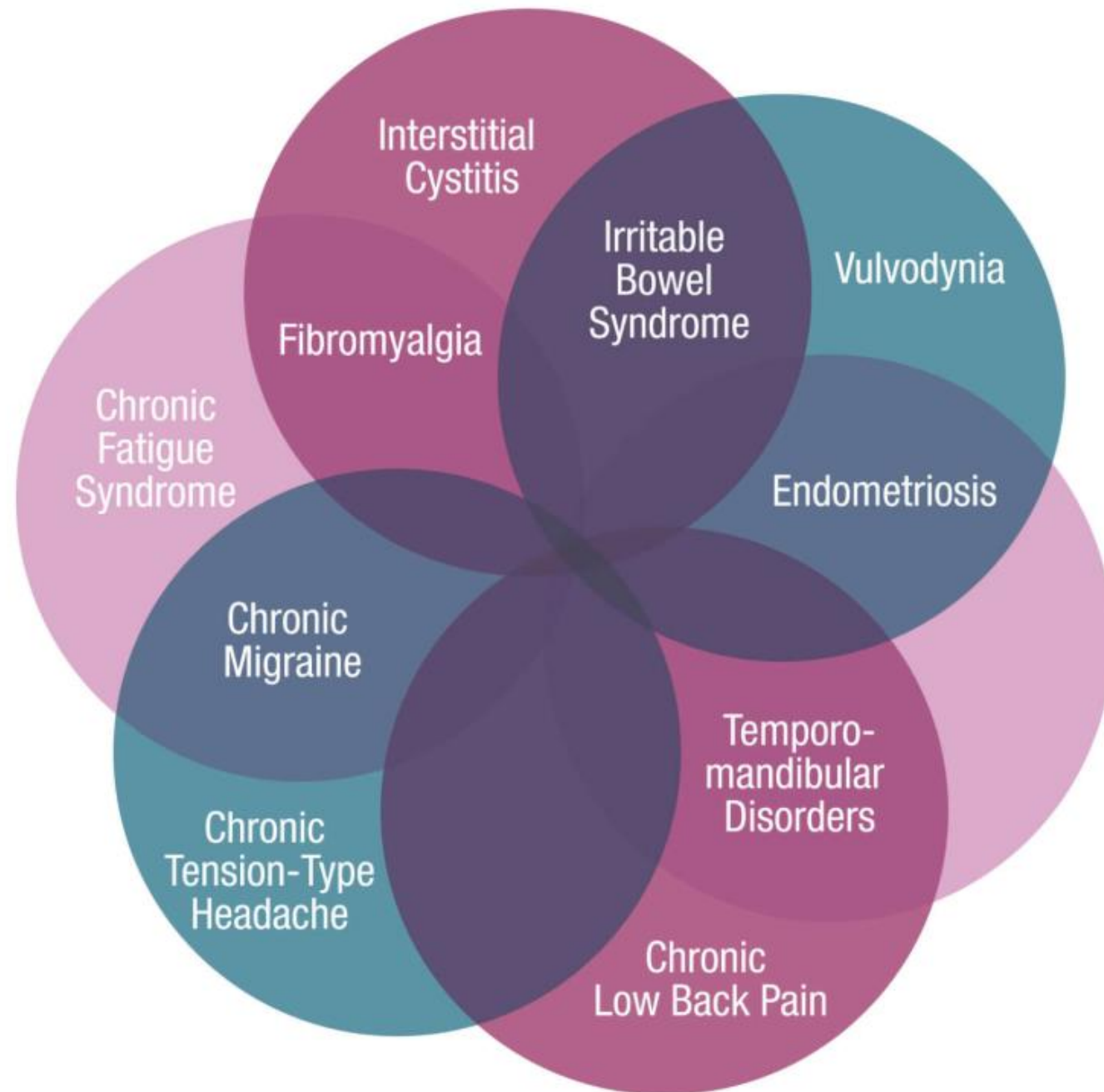
- Localized (eg, vestibulodynia, clitorodynia) or generalized or mixed (localized and generalized)
- Provoked (eg, insertional, contact) or spontaneous or mixed (provoked and spontaneous)
- Onset (primary or secondary)
- Temporal pattern (intermittent, persistent, constant, immediate, delayed)

* Women may have both a specific disorder (eg, lichen sclerosus) and vulvodynia.



Appendix: potential factors associated with vulvodynia*

- Comorbidities and other pain syndromes (eg, painful bladder syndrome, fibromyalgia, irritable bowel syndrome, temporomandibular disorder; level of evidence 2)
- Genetics (level of evidence 2)
- Hormonal factors (eg, pharmacologically induced; level of evidence 2)
- Inflammation (level of evidence 2)
- Musculoskeletal (eg, pelvic muscle overactivity, myofascial, biomechanical; level of evidence 2)
- Neurologic mechanisms
 - Central (spine, brain; level of evidence 2)
 - Peripheral: neuroproliferation (level of evidence 2)
- Psychosocial factors (eg, mood, interpersonal, coping, role, sexual function; level of evidence 2)
- Structural defects (eg, perineal descent; level of evidence 3)



PRESENTATION

- • Burning, stinging, rawness, often no visible lesions
- • Pain provoked by intercourse, tampon insertion, tight clothing
- • Impacts sexual function and quality of life

HISTORY



History: onset, duration, triggers, psychosocial context



Prior treatments



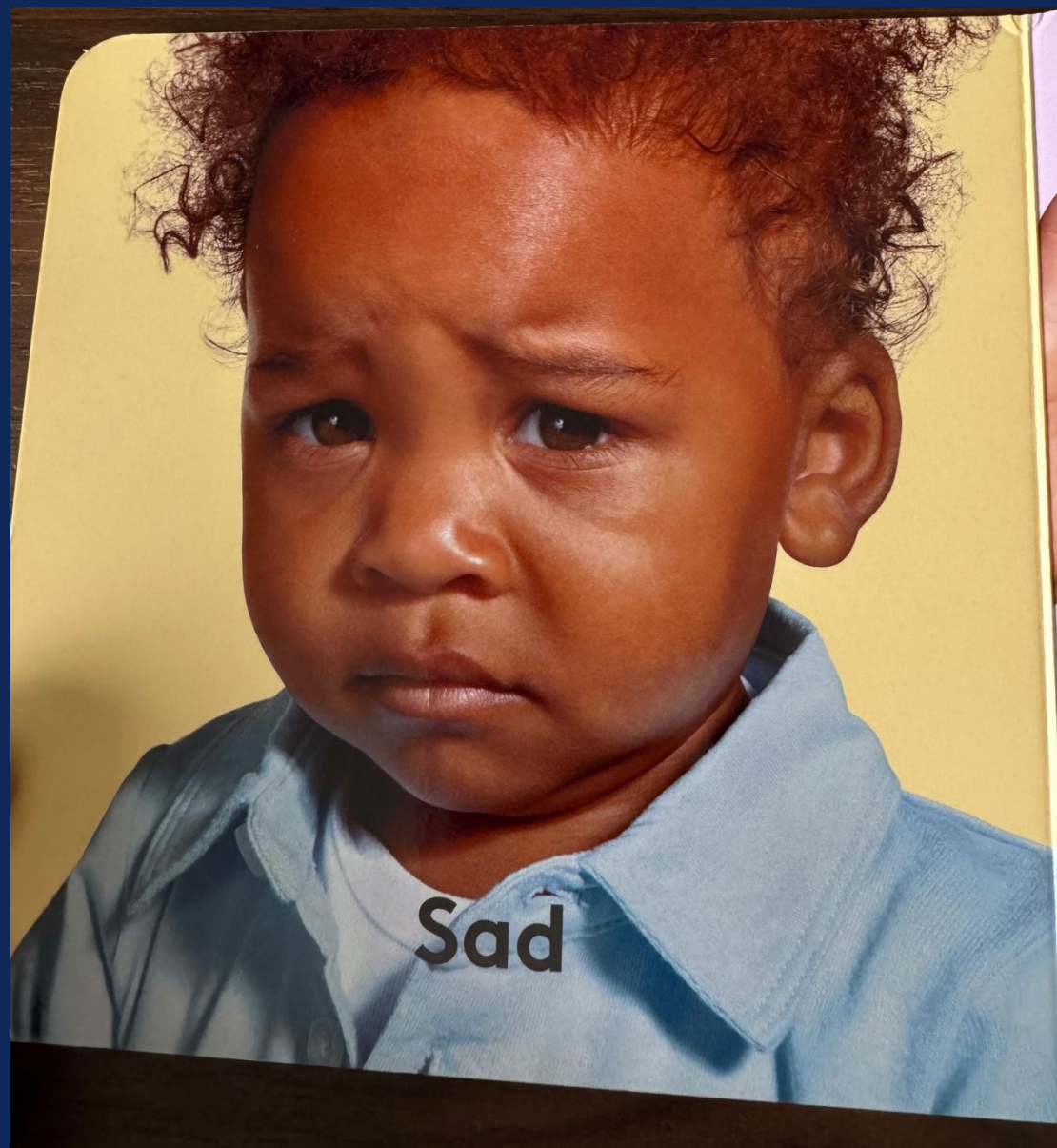
FIFE:

F- Feelings

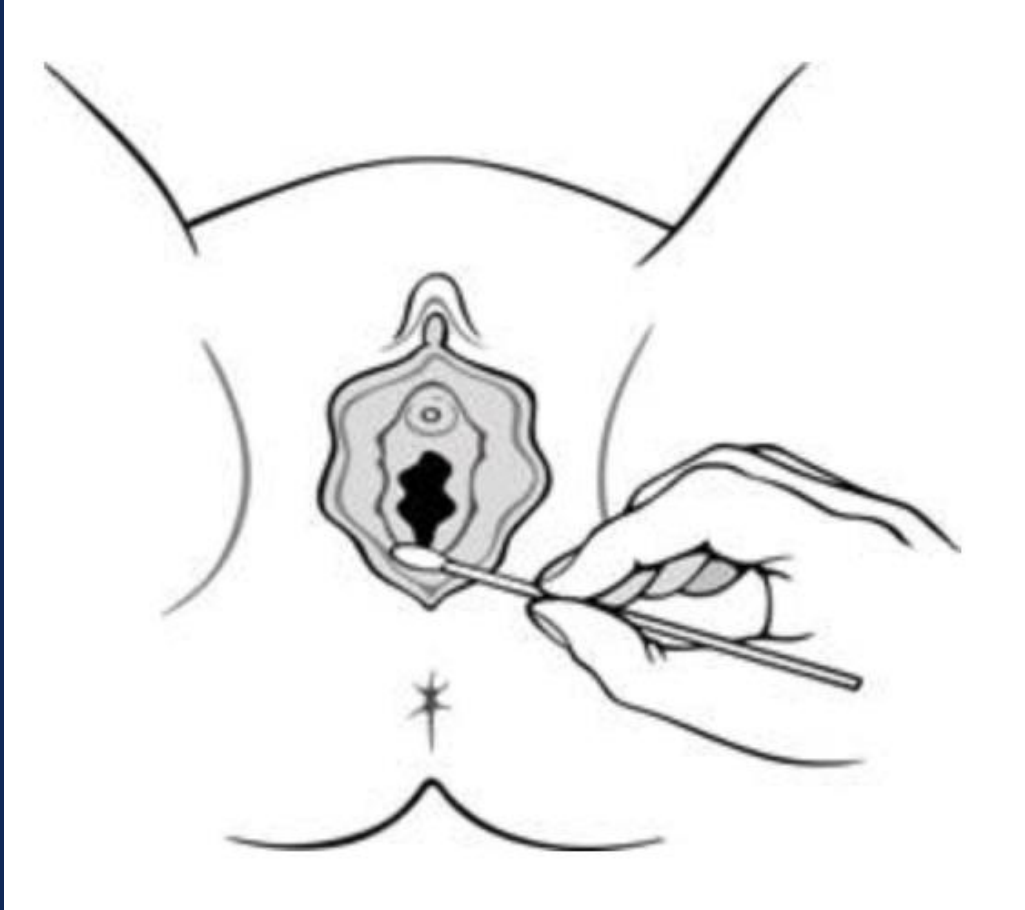
I- Ideas

F- Function

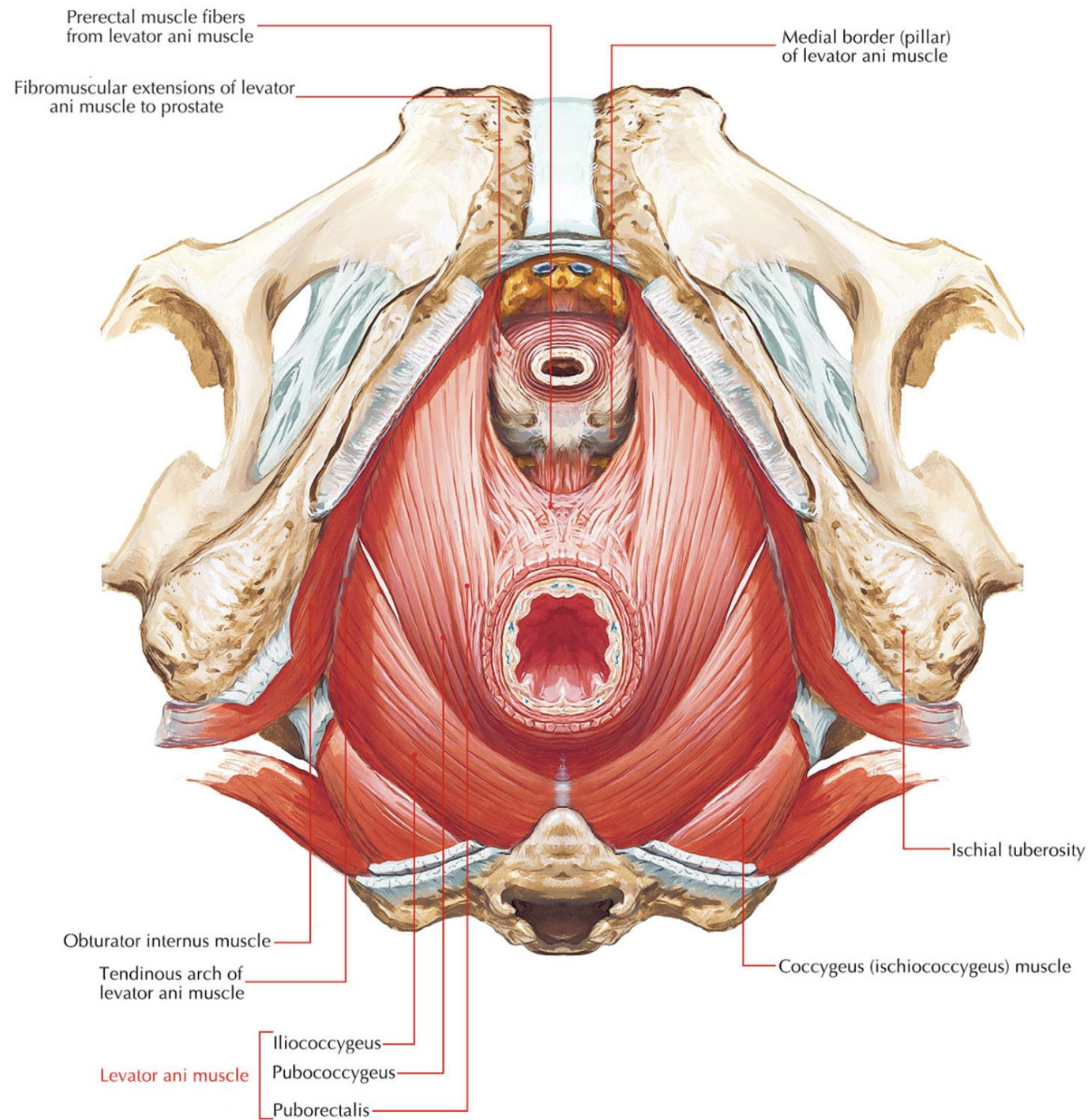
E-
Expectations



EVALUATION



- Physical exam: visual inspection, cotton-swab test, pelvic floor assessment





Sexual desire or interest is a feeling that includes both physiological excitement. It may include feelings of warmth or (wetness), or muscle contractions.

experience, feeling receptive to a partner's sexual fantasies, fantasizing about having sex.

1. Over the past 4 weeks, how **often**

- ☐ Almost always or always
- ☐ Most times (more than half the time)
- ☐ Sometimes (about half the time)
- ☐ A few times (less than half the time)
- ☐ Almost never or never

2. Over the past 4 weeks, how would you rate your sexual desire or interest?

- ☐ Very high
- ☐ High
- ☐ Moderate
- ☐ Low
- ☐ Very low or none at all

3. Over the past 4 weeks, how **often** did you become lubricated ("wet") during sexual activity or intercourse?

- ☐ No sexual activity
- ☐ Almost always or always
- ☐ Most times (more than half the time)
- ☐ Sometimes (about half the time)
- ☐ A few times (less than half the time)
- ☐ Almost never or never

4. Over the past 4 weeks, how would you rate your sexual desire or interest ("on") during sexual activity or intercourse?

- ☐ No sexual activity
- ☐ Very high
- ☐ High
- ☐ Moderate
- ☐ Low
- ☐ Very low or none at all

5. Over the past 4 weeks, how **confident** were you during sexual activity or intercourse?

- ☐ No sexual activity
- ☐ Very high confidence
- ☐ High confidence
- ☐ Moderate confidence
- ☐ Low confidence
- ☐ Very low or no confidence

6. Over the past 4 weeks, how **often** have you experienced sexual excitement (excitement) during sexual activity or intercourse?

- ☐ No sexual activity
- ☐ Almost always or always
- ☐ Most times (more than half the time)
- ☐ Sometimes (about half the time)
- ☐ A few times (less than half the time)
- ☐ Almost never or never

7. Over the past 4 weeks, how **often** did you become lubricated ("wet") during sexual activity or intercourse?

- ☐ No sexual activity
- ☐ Almost always or always
- ☐ Most times (more than half the time)
- ☐ Sometimes (about half the time)
- ☐ A few times (less than half the time)
- ☐ Almost never or never

8. Over the past 4 weeks, how **difficult** was it to become lubricated ("wet") during sexual activity or intercourse?

- ☐ No sexual activity
- ☐ Extremely difficult or impossible
- ☐ Very difficult
- ☐ Difficult
- ☐ Slightly difficult
- ☐ Not difficult

9. Over the past 4 weeks, how often did you **maintain** your lubrication ("wetness") until completion of sexual activity or intercourse?

- ☐ No sexual activity
- ☐ Almost always or always
- ☐ Most times (more than half the time)
- ☐ Sometimes (about half the time)
- ☐ A few times (less than half the time)
- ☐ Almost never or never

10. Over the past 4 weeks, how **difficult** was it to maintain your lubrication ("wetness") until completion of sexual activity or intercourse?

- ☐ No sexual activity
- ☐ Extremely difficult or impossible
- ☐ Very difficult
- ☐ Difficult
- ☐ Slightly difficult
- ☐ Not difficult

WHY IS THIS HAPPENING!



**Peripheral nerve
sensitization**

**Central
sensitization**

**Hormonal
influence**

**Pelvic floor
dysfunction**

**Psychosocial
contributors**



ANATOMY

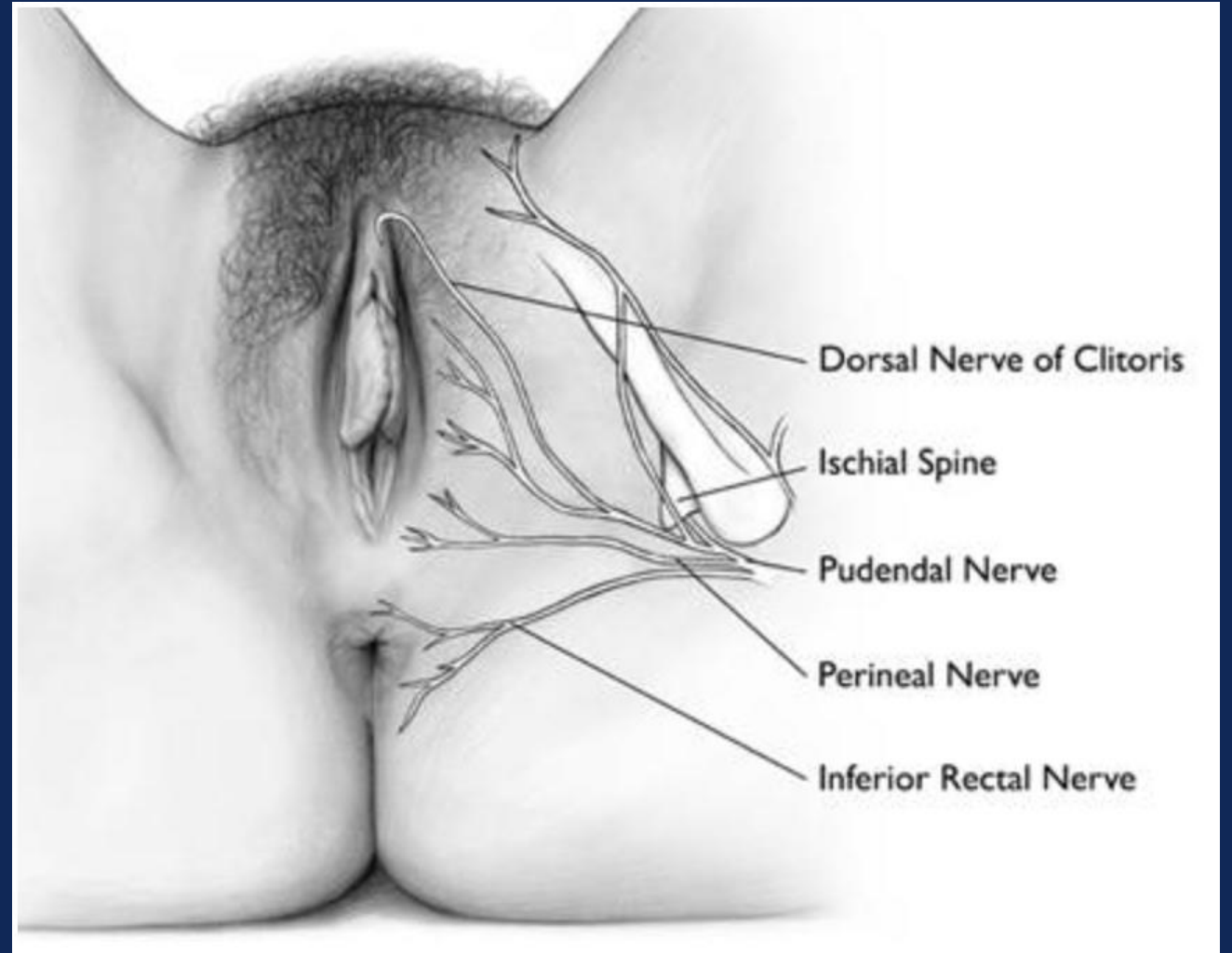
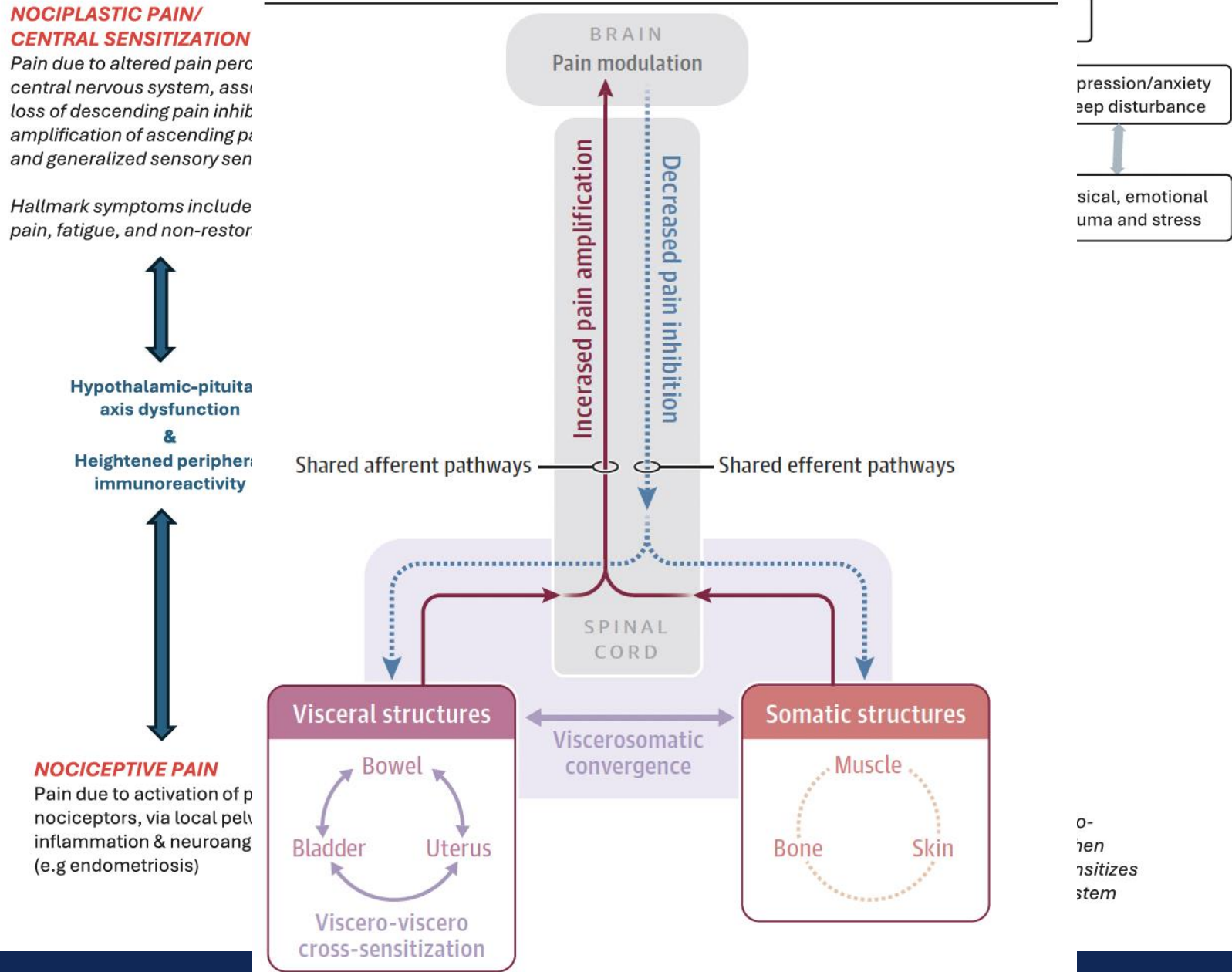


Figure 1. Viscero-Viscero Cross-Sensitization and Viscerosomatic Convergence Pathways





NOW WHAT?!



TREATMENT OPTIONS

- Multimodal and individualized
- Education and validation
- Behavioral modifications
- Pelvic floor physical therapy
- Pharmacologic therapy
- Procedural or surgical options

EDUCATION & BEHAVIORAL



Encourage CBT, mindfulness, and supportive therapy



Validate symptoms, explain pain physiology



Avoid irritants and friction

Vulvar Care Measures That Can Minimize Vulvar Irritation

The following vulvar care measures can minimize vulvar irritation:

- Wear 100% cotton underwear (no underwear at night)
- Avoid vulvar irritants (perfumes, dyes, shampoos, detergents) and douching
- Use mild soaps for bathing, without applying it to the vulva
- Clean the vulva with water only
- Avoid the use of hair dryers on the vulvar area
- Pat the area dry after bathing, and applying a preservative-free emollient (such as vegetable oil or plain petrolatum) topically to hold moisture in the skin and improve the barrier function
- Switch to 100% cotton menstrual pads (if regular pads are irritating)
- Use adequate lubrication for intercourse
- Apply cool gel packs to the vulvar area
- Rinse and pat the vulva dry after urination

PHYSICAL THERAPY



- Pelvic floor PT and biofeedback are first-line



- Address muscle hypertonicity and pain mapping

PHYSICAL THERAPY

Low risk and effective

Utilize

- Trigger point release
- Myofascial release
- Mobilization
- Stretching/relaxation
- Biofeedback
- Electrostim therapy
- Dry needling
- Strengthening/stabilization

Goal: At least 8-12 sessions

PHARMACOLOGICAL --- TREATMENT

TOPICALS

Lidocaine ointment 5%

- After 7 weeks: 76% were able to have penetrative intercourse compared to 36% at baseline

Lidocaine 2.5%- Prilocaine 2.5% (EMLA)

Amitriptyline 2% - Baclofen 2%

Estrogen

TOPICALS

Plain petrolatum

Capsaicin



Topical nitroglycerin

Not helpful:

- Corticosteroids
- Testosterone
- Antifungals

ORAL MEDICATIONS

- Tricyclic anti-depressants
 - Amitriptyline, nortriptyline, desipramine
 - Other uses
- Anti-depressants:
 - Fluoxetine
 - Venlafaxine (37.5mg daily > 75mg daily)
- Anticonvulsants
 - Gabapentin: 100mg vs 300mg daily dosing

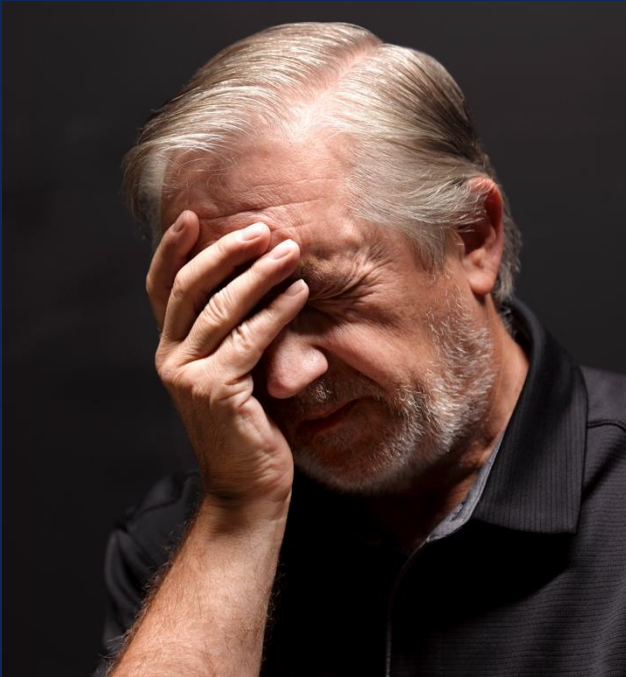
GABAPENTIN for CHRONIC PAIN

SCHEDULE	MORNING DOSE	AFTERNOON DOSE	EVENING DOSE	(PRESCRIPTION)
Days 1-3	(none)	(none)	300 mg	300 mg tabs, #100
Days 4-7	300 mg	(none)	300 mg	
Days 8-10	300 mg	300 mg	300 mg	
Days 11-14	300 mg	300 mg	600 mg	
Week 3	600 mg	300 mg	600 mg	
Week 4	600 mg	600 mg	600 mg	
Week 5	600 mg	600 mg	900 mg	300 mg tabs, # 210
Week 6	900 mg	600 mg	900 mg	
Week 7	900 mg	900 mg	900 mg	
Week 8	900 mg	900 mg	1200 mg	
Week 9	1200 mg	900 mg	1200 mg	300 mg tabs, # 315
Week 10	1200 mg	1200 mg	1200 mg	

SHOW ME THE DATA!

- Amitriptyline: RCT did not show that low doses (10-20mg) was helpful for reducing pain
- Study with 241 patients with generalized, unprovoked vulvodynia
 - Medication: TCA, gabapentin and pregabalin
 - 60% with long lasting relief (24m)
 - 10% temporary relief
 - ~30% discontinuation due to side effects

ORAL MEDICATIONS



Carbamazepine

- 100mg nightly, add 100mg every 3 days (max 1200mg daily)
- Elevated LFTs, hyponatremia

Topiramate

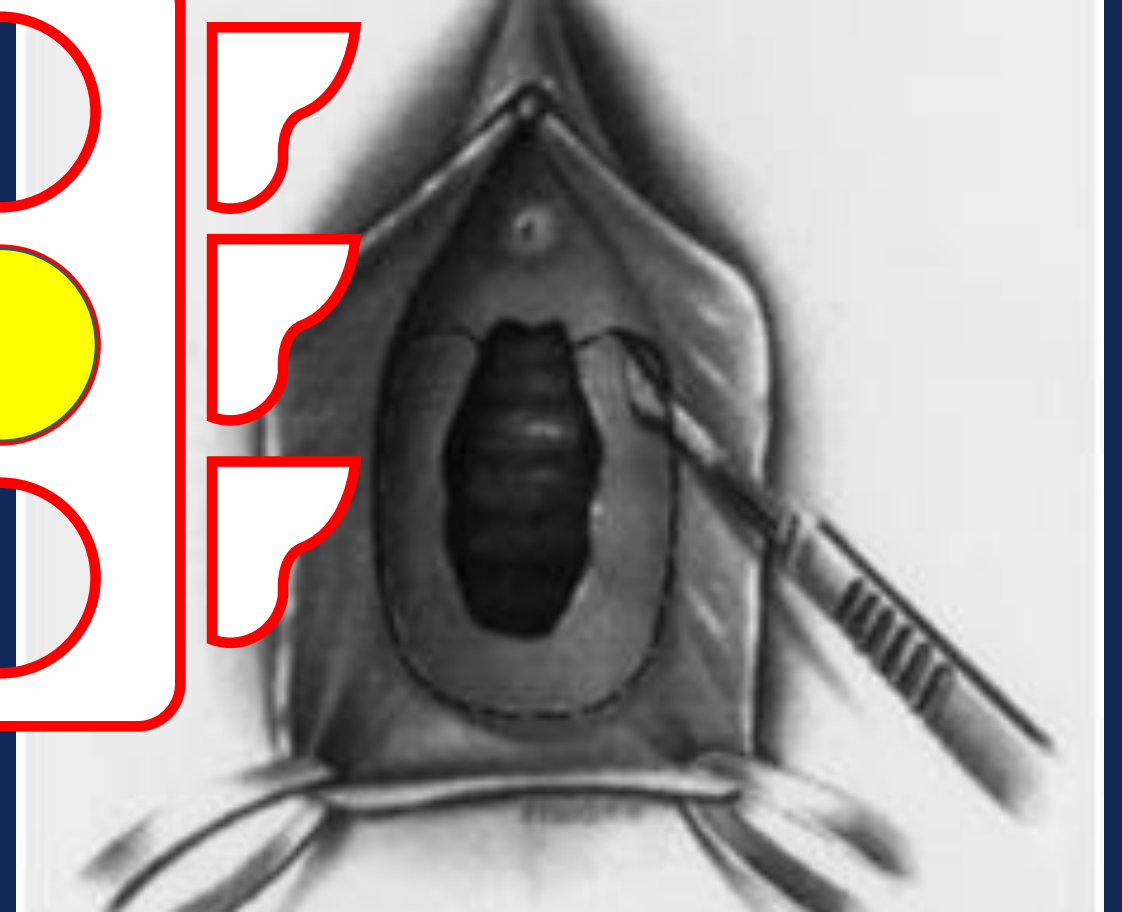
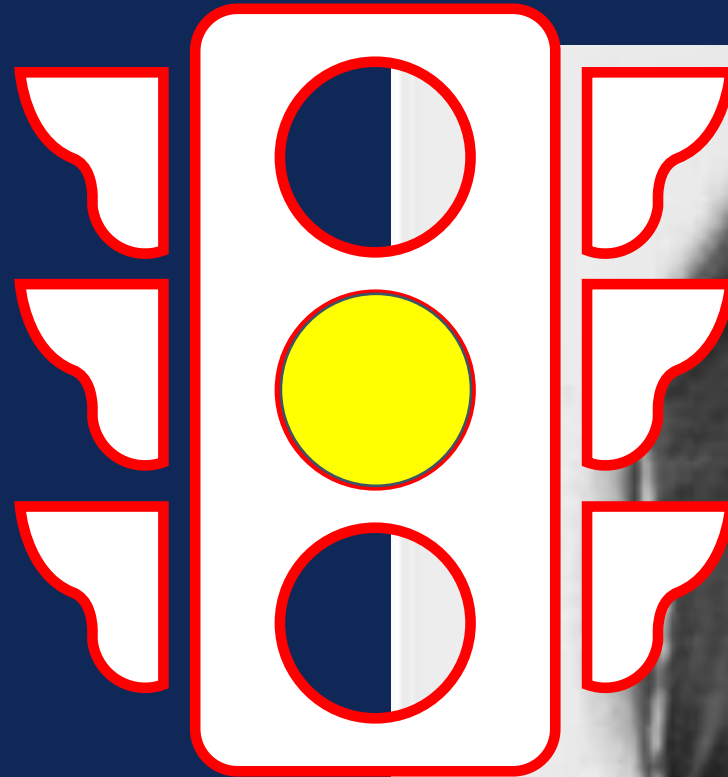
- 25mg daily > BID > 50mg BID > 75mg BID
- Glaucoma, anemia, order BMP

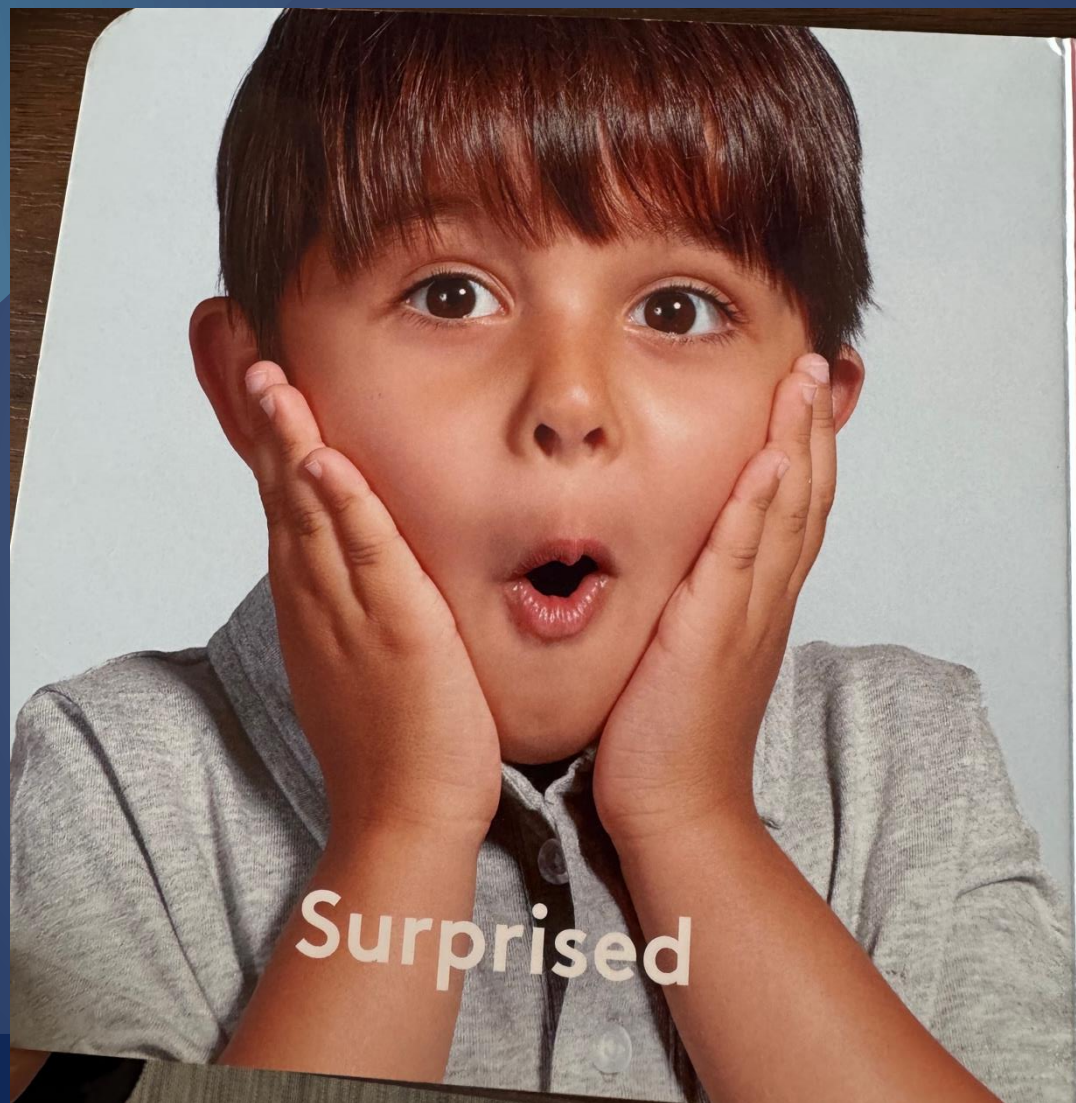
PROCEDURES

- Local vulvodynia: Trigger point injections
 - 0.1% triamcinolone acetonide and 0.25% bupivacaine (larger area) vs 0.5% (smaller area)
 - Injected monthly
- Pudendal nerve block?
 - Not enough data to say

SURGERY!

- Local excision
- Total vestibulectomy
- Perineoplasty





Surprised

BOTOX

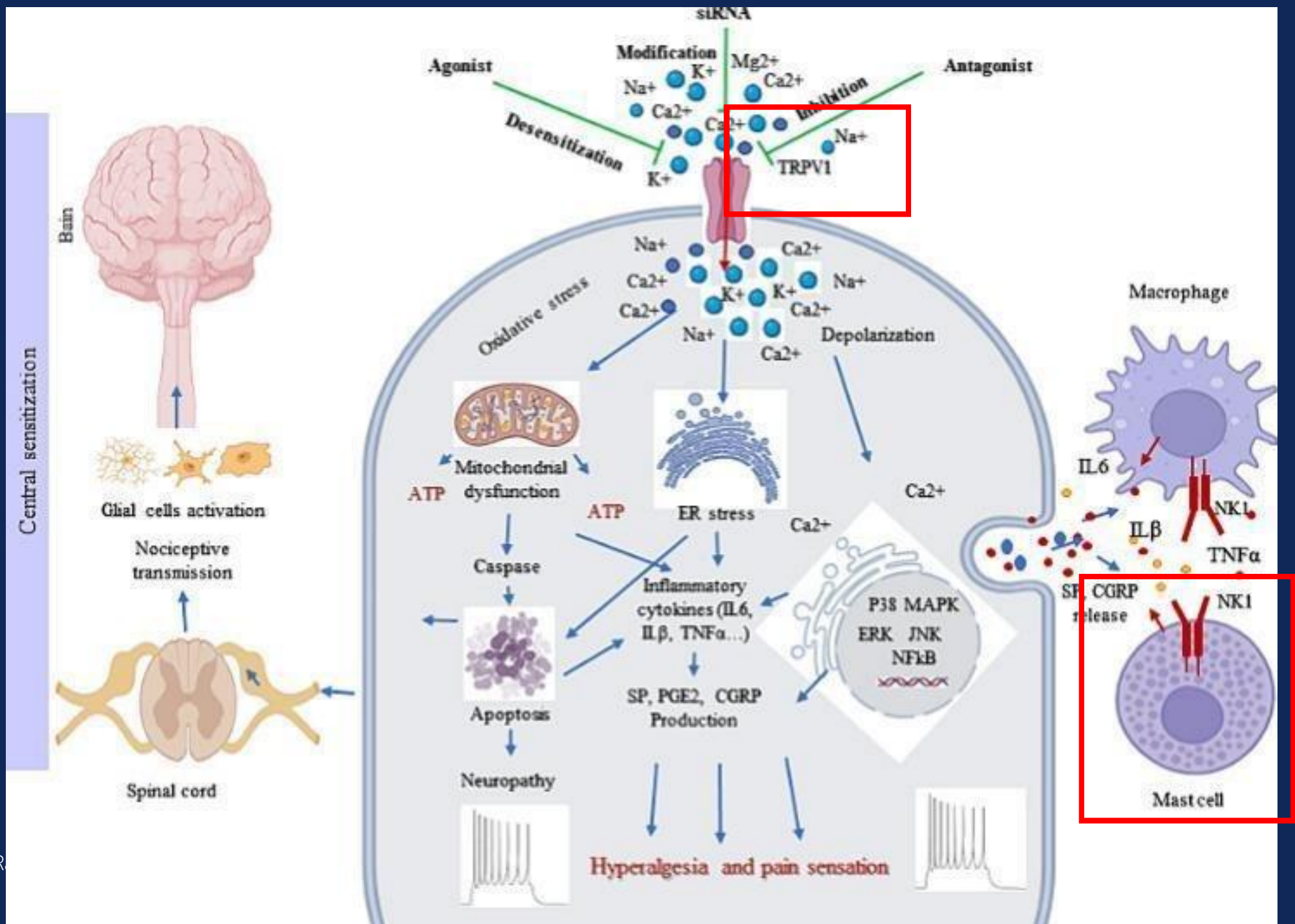
Original Research

ajog.org

GYNECOLOGY

Electromyography-guided botulinum toxin injections in provoked vestibulodynia: a randomized double-blind placebo-controlled clinical trial

Fabien Pelletier, MD, PhD; Irène Gallais Sérézal, MD, PhD; Marc Puyraveau, MSc; Franck Leroux; Delphine Verollet, MD; François Aubin, MD, PhD; Gérard Amarenco, MD, PhD; Bernard Parratte, MD, PhD



What is Vulvodynia?

About Us

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Make a Difference

Patient Tutorial

Introduction

Introduction to Vulvovaginal Health

- Gynecological Anatomy
- Normal and Abnormal Vulvovaginal Symptoms
- Vulvar Self-Examination

The Basics of Pain

- How We Feel Pain
- How to Use a Pain Diary

Understanding Vulvodynia

- Definition and Types of Vulvodynia
- What Causes Vulvodynia?
- Diagnosis and Co-Existing Conditions
- Vulvodynia Treatments
- Self-Help Strategies

Coping With Chronic Pain

Diagnosis

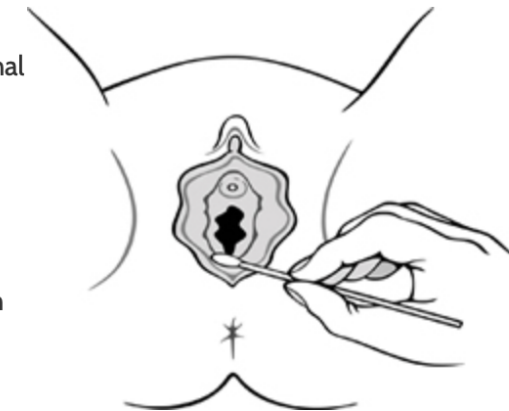
« Prev Next »

Diagnosis

Diagnosis

Since vulvodynia is both a pain condition and affects the vulva, health care professionals from multiple disciplines may be involved in its treatment at different points in time. A gynecologist, urogynecologist or other provider knowledgeable about vulvodynia should perform your first examination to rule out conditions that mimic the symptoms of vulvodynia. Then, based on your symptoms, you may be referred to other specialists for continued care.

After taking a thorough medical history and asking questions about your symptoms, your provider should carefully examine the vulva, vagina and vaginal secretions to rule out an active infection or skin disorder. Routine cultures for yeast and bacterial infections should be performed. Your provider may also recommend that you have blood drawn to assess levels of estrogen, progesterone and testosterone. He/she will likely perform a cotton-swab test (pictured on the right). During the test, gentle pressure is applied to various vulvar sites and you're asked to rate the severity of the pain. If any areas of skin appear suspicious, your provider may examine them with a magnifying instrument or take a biopsy of the area.



Upon examination, the vulvar tissue may either appear red and swollen, or perfectly normal. By comparing the vestibular tissue (marked by a yellow arrow in the photos to the right), you can see that the vestibule on the top is

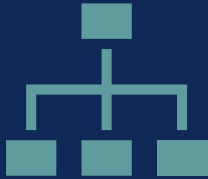


SUMMARY

- •Complex, yet treatable
- • Accurate diagnosis and validation are key
- • Multidisciplinary approach yields best outcomes
- • Continue advancing research and awareness



LEARNING OBJECTIVES



- **Can** define vulvodynia and its subtypes



- **Reviewed** symptom presentation and outline diagnostic approach



- **Discussed** evidence-based treatment strategies and highlight emerging research directions

REFERENCES

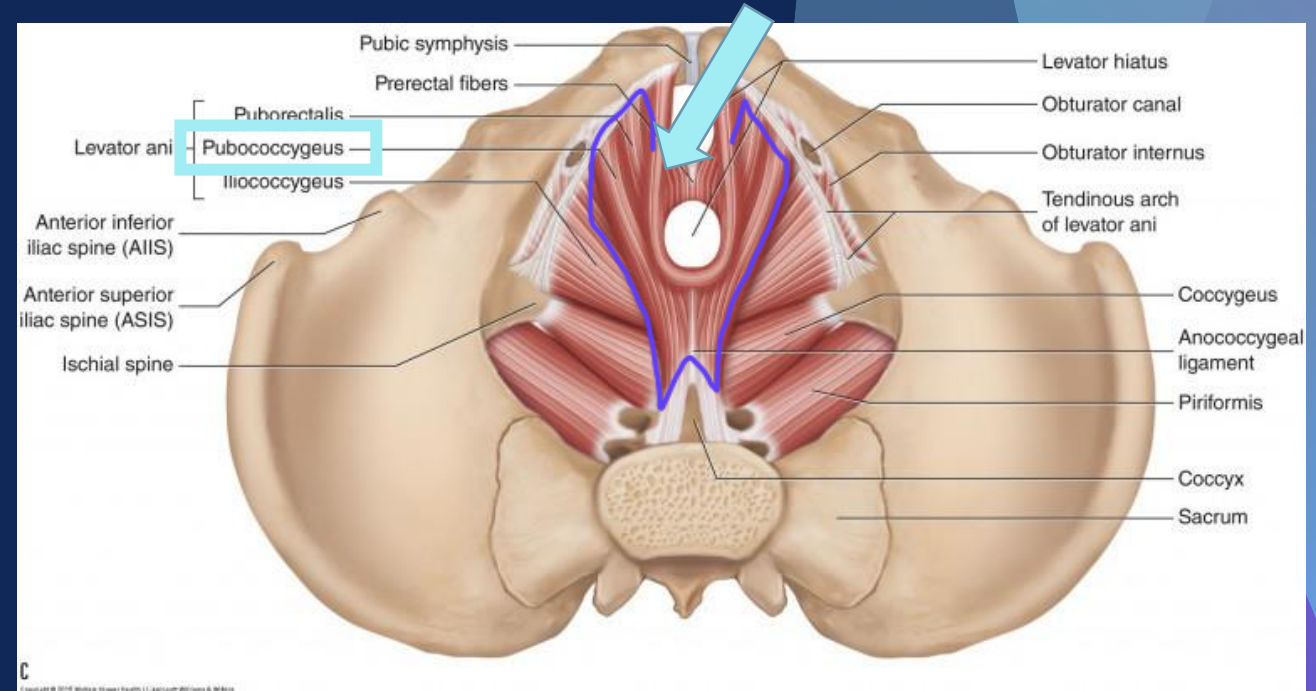
- ACOG Committee Opinion No. 673. Obstet Gynecol 2016
- Bornstein, Jacob MD, MPA*; Goldstein, Andrew T. MD*; Stockdale, Colleen K. MD, MS; Bergeron, Sophie PhD; Pukall, Caroline PhD; Zolnoun, Denniz MD, MPH; Coady, Deborah MD on behalf of the consensus vulvar pain terminology committee of the International Society for the Study of Vulvovaginal Disease (ISSVD), the International Society for the Study of Women's Sexual Health (ISSWSH), and the International Pelvic Pain Society (IPPS). 2015 ISSVD, ISSWSH and IPPS Consensus Terminology and Classification of Persistent Vulvar Pain and Vulvodynia. Obstetrics & Gynecology 127(4):p 745-751, April 2016. | DOI: 10.1097/AOG.0000000000001359
- van Beekhuizen HJ, Oost J, van der Meijden WJ. Generalized unprovoked vulvodynia; A retrospective study on the efficacy of treatment with amitriptyline, gabapentin or pregabalin. Eur J Obstet Gynecol Reprod Biol. 2018 Jan;220:118-121. doi: 10.1016/j.ejogrb.2017.10.026. Epub 2017 Oct 31. PMID: 29202395.
- Tribó MJ, Andi6n O, Ros S, Gilaberte M, Gallardo F, Toll A, Ferrán M, Bulbena A, Pujol RM, Ba6os JE. Clinical characteristics and psychopathological profile of patients with vulvodynia: an observational and descriptive study. Dermatology. 2008;216(1):24-30. doi: 10.1159/000109354. PMID: 18032895.\
- Hartmann EH, Nelson C. The perceived effectiveness of physical therapy treatment on women complaining of chronic vulvar pain and diagnosed with either vulvar vestibulitis syndrome or dysesthetic vulvodynia. *J Sect Womens Health* 2001;25:13-8.
- Segal D, Tifheret H, Lazer S. Submucous infiltration of betamethasone and lidocaine in the treatment of vulvar vestibulitis. *Eur J Obstet Gynecol Reprod Biol* 2003;107:105-6
- McDonald JS, Rapkin AJ. Multilevel local anesthetic nerve blockade for the treatment of generalized vulvodynia: a pilot study. *J Sex Med*. 2012 Nov;9(11):2919-26. doi: 10.1111/j.1743-6109.2012.02909.x. Epub 2012 Aug 27. PMID: 22925528.
- Pelletier F, Gallais S6rezal I, Puyraveau M, Leroux F, Verollet D, Aubin F, Amarenco G, Parratte B. Electromyography-guided botulinum toxin injections in provoked vestibulodynia: a randomized double-blind placebo-controlled clinical trial. *Am J Obstet Gynecol*. 2025 Dec 17:S0002-9378(25)00934-2. doi: 10.1016/j.ajog.2025.12.037. Epub ahead of print. PMID: 41419152.
- Rahman, M. M., Jo, Y. Y., Kim, Y. H., & Park, C. K. (2024). Current insights and therapeutic strategies for targeting TRPV1 in neuropathic pain management. *Life Sciences*, 355, 122954.
- Bergeron S et al., Am J Obstet Gynecol 2002
- Brotto LA et al., J Sex Med 2015
- Foster DC et al., Obstet Gynecol 2010



THANK YOU

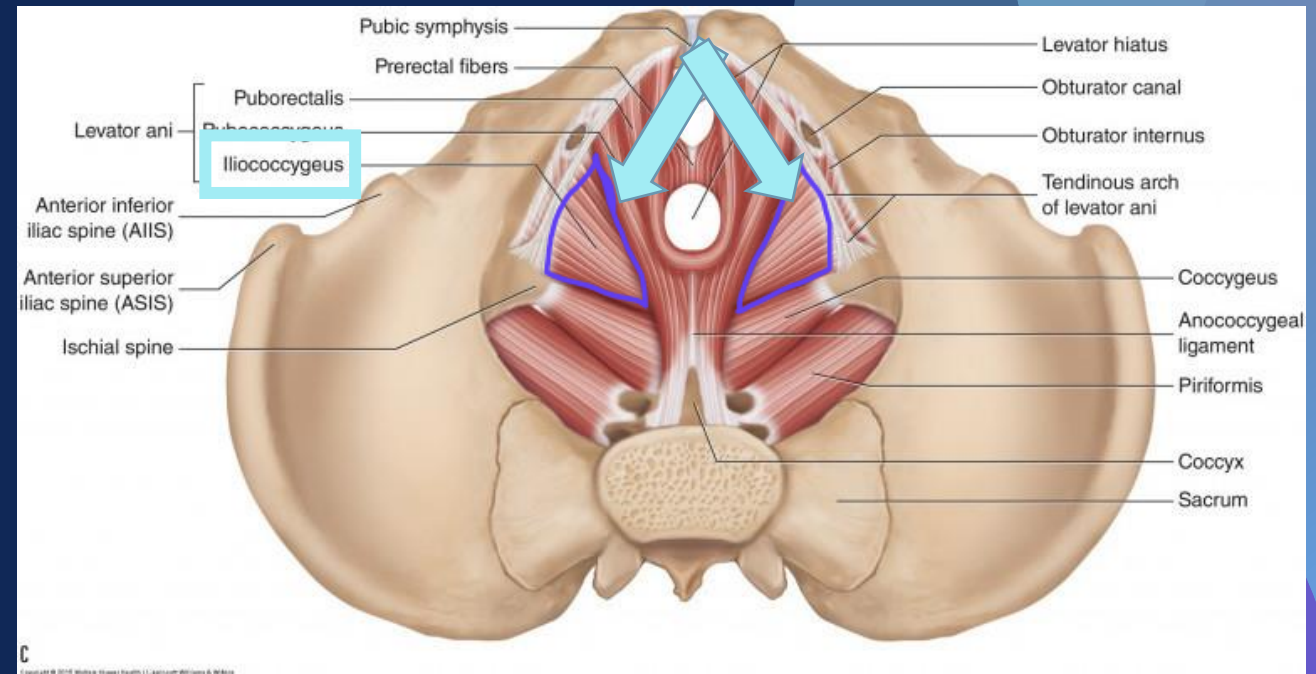
HOW TO EXAM THE PELVIC FLOOR

- Pubococcygeus
 - First muscle, posterior
 - 1st finger joint in



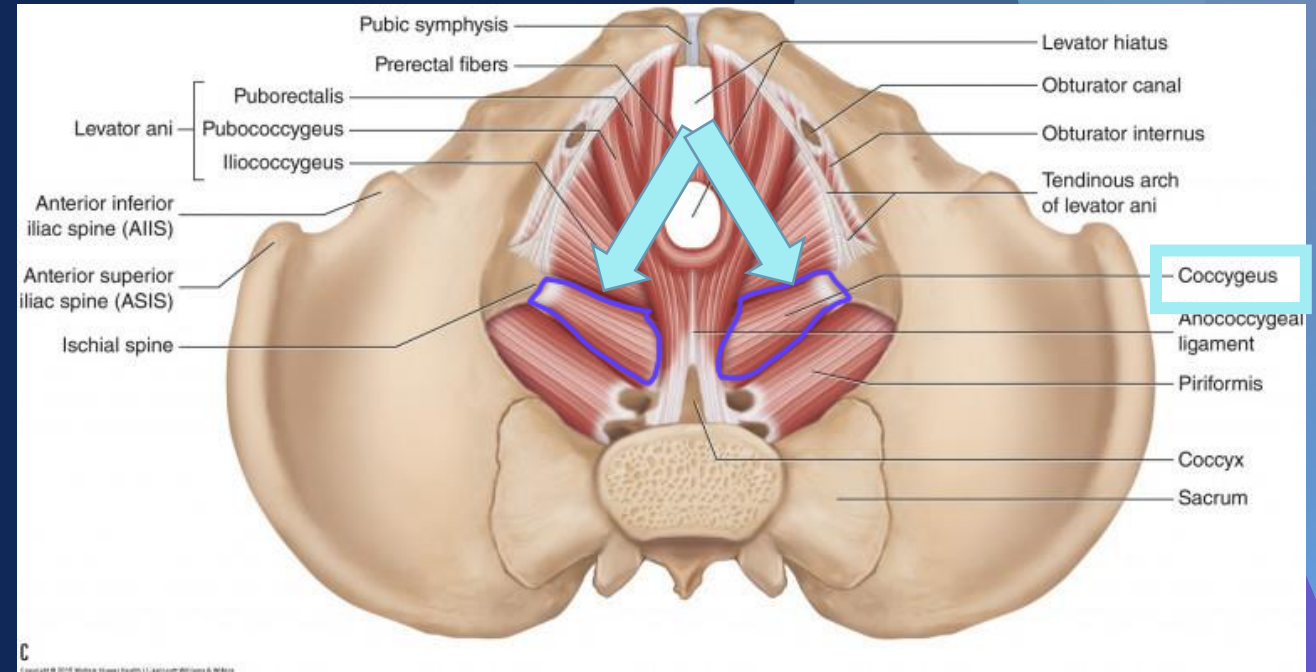
HOW TO EXAM THE PELVIC FLOOR

- Iliococcygeus
 - Second muscle, posterior
 - 2nd finger joint in



HOW TO EXAM THE PELVIC FLOOR

- Coccygeus
 - Third muscle, posterior
 - Finger all the way in, thinner muscle
 - (sacrospinous ligament underlies it)- can slide medial and posterior from ischial spine



HOW TO EXAM THE PELVIC FLOOR

- Obturator Internus

- 1st finger joint, anteriorly
- Have the patient abduct the lower extremity against resistance. You will feel a bulge if you are in the right place.

