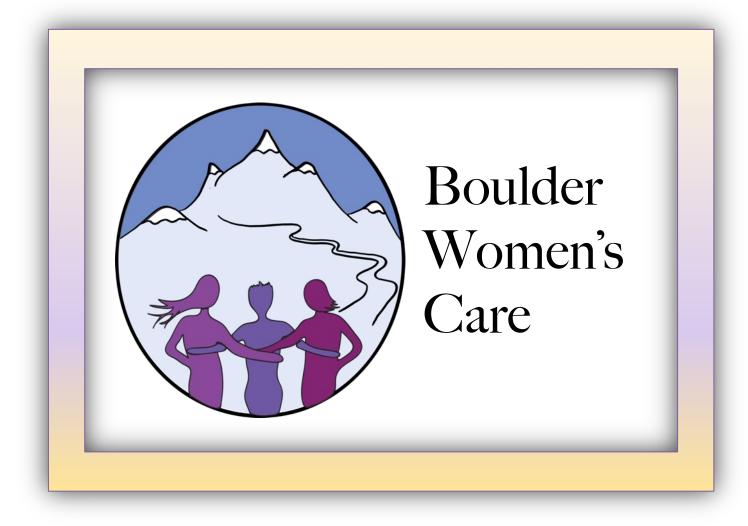
Latest Treatments for a Leaky Bladder

Jeremiah McNamara, MD, FACOG Boulder Women's Care 303-731-3902







Financial Disclosures



None

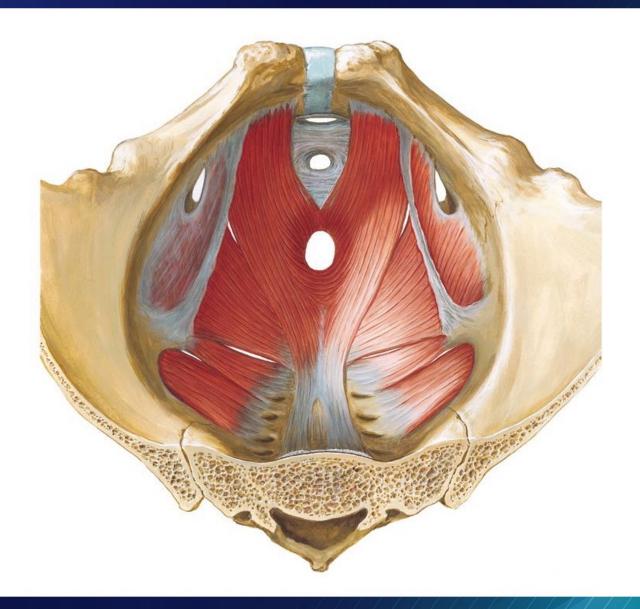
Agenda



- The Big Issue:
 - Pelvic Floor Dysfunction
- Primary Problems:
 - Prolapse
 - Urinary issues
 - Bowel issues, Pelvic pain
- For each:
 - Who is at risk?
 - How does it show up?
 - What are the treatments?
 - Lifestyle → Conservative → Procedures

The Pelvic Floor





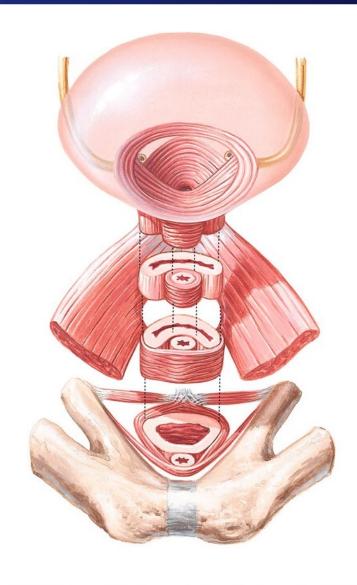
Pelvic Floor (Dysfunction)

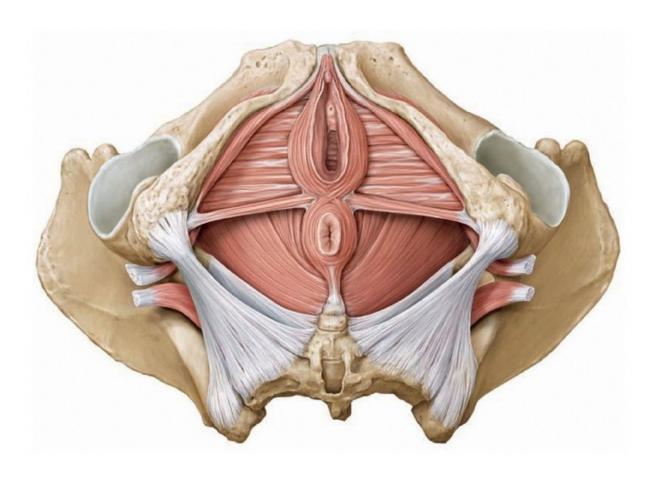


"Symptoms that arise out of weakness, spasm, or discoordination of the structures that make up the "Pelvic Floor" – A complex association of many muscles, the connective tissues that anchor them to the bony pelvis, and the organs that they hold in place."

The Pelvic Floor







Incidence & Impact



- Pelvic Floor Dysfunction Affects 1 in 4 women
- 50% of women over 50 live every day with one or more of these problems.
 - Most Common: Stress Urinary Incontinence (SUI)
 - 1 in 3 of those women with urinary incontinence have some degree of bowel dysfunction.
- 60% of nursing home occupants suffer from daily fecal and/or urinary incontinence.
- 20% lifetime risk of needing surgery for prolapse or incontinence
 - Surgical repair of prolapse is <u>the most common surgery</u> performed in women older than 70.
- Thousands upon thousands of dollars per year spent on pads and other products.

It is **VERY** common.

Many are suffering silently with it.

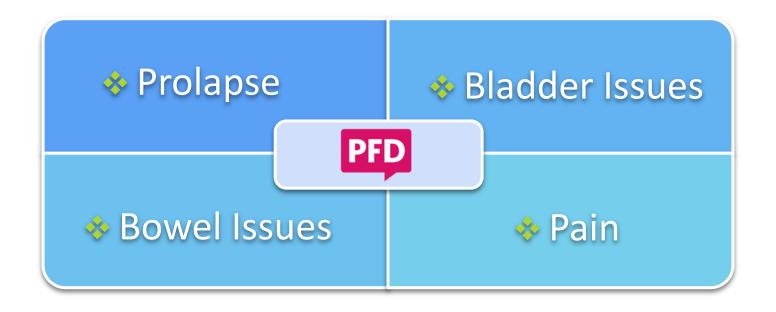


"I've had these symptoms for years... but didn't really know there was anything to do about them..."

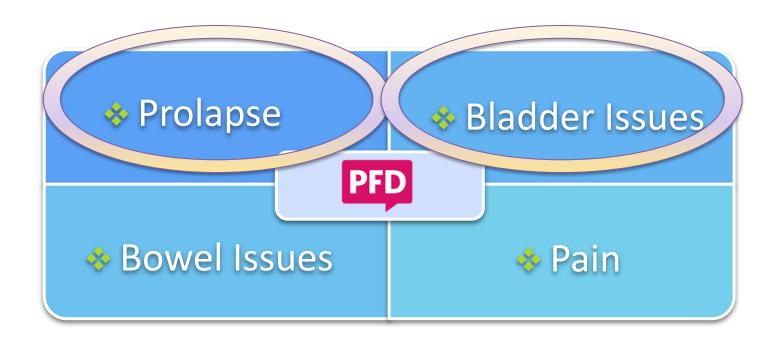
"I get it... I had had a couple kids - I assumed that some of this was just part of the deal..."

"I enjoy sex with my partner, but honestly it is a little painful most of the time, has been that way for years."

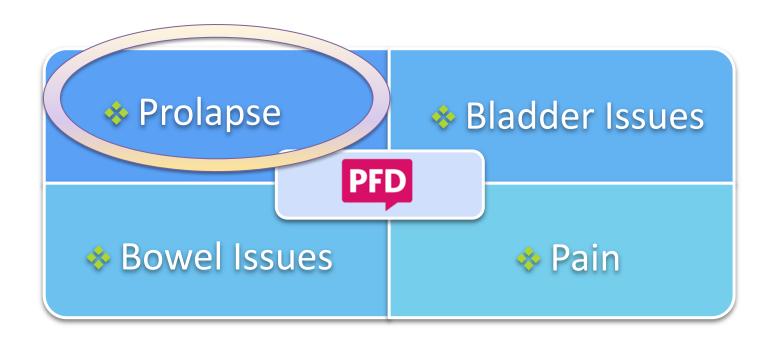








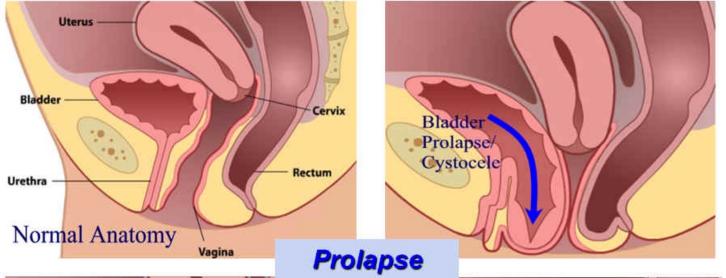






Video: Pelvic Floor Support & Prolapse





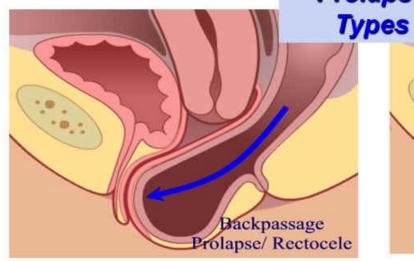
Womb/

Uterine

Prolapse

"Cystocele"

"Rectocele"



"Uterine Prolapse"

Prolapse: Who is at risk?



Risk Factors:

- Some we have control over.
 - Obesity
 - BMI > 25 means you double your risk
 - Sedentary lifestyles
 - Chronic constipation
 - Chronic cough (i.e., smoking)
- · Some we don't.
 - Age (menopause, lack of estrogen)
 - Pregnancies
 - Vaginal > Cesarean (big babies not well correlated, CS not completely protective)
 - Hysterectomy
 - Unclear risk of apical/vault prolapse many years later

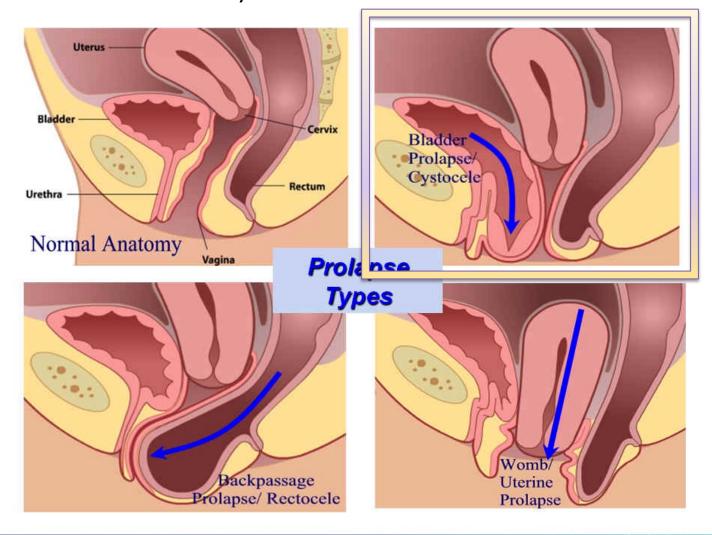
Prolapse: How does it show up?



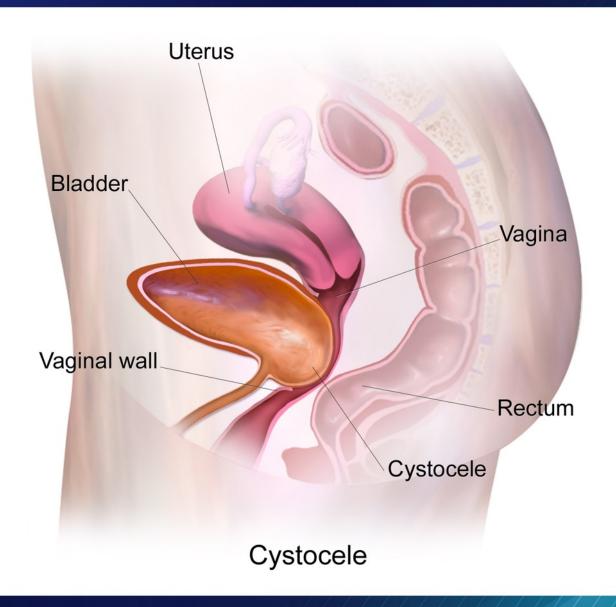
- 1. Bulge (vaginal fullness/pressure)
- 2. Organ System Dysfunction
 - <u>Cystocele</u>: Stress or urge incontinence, frequency/urgency, double voiding, splinting, weak/changing stream, feeling of needing to urinate during intercourse
 - <u>Rectocele</u>: Obstructed/painful BM's, splinting, stool trapping, accidental bowel leakage, feeling of needing to have BM during intercourse



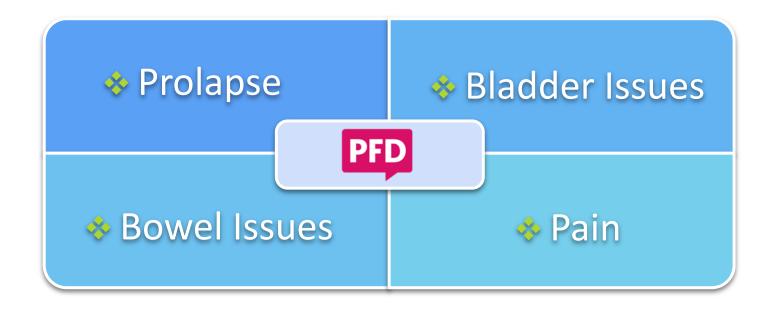
Association with a leaky bladder...



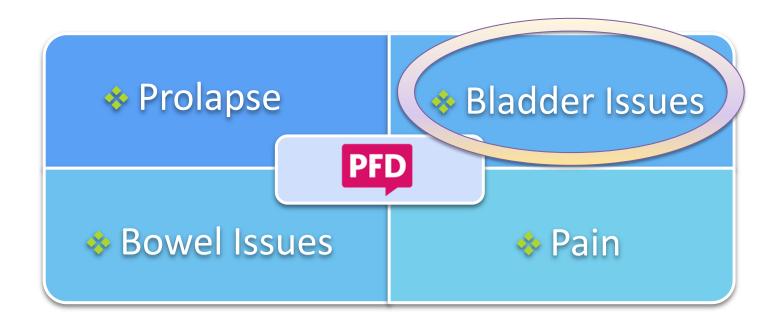












Bladder Issues



Urinary Incontinence

- Stress
- Urge
- Mixed
- Overactive Bladder
 Frequency/Urgency/Nocturia
- Urinary Retention
- Recurrent UTI's
- Bladder Pain

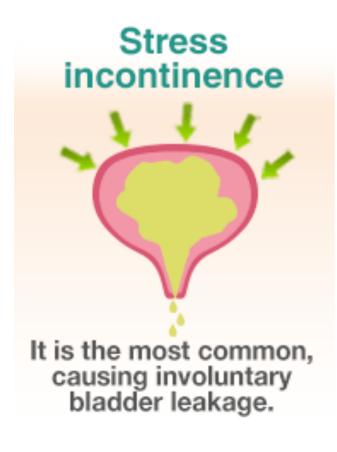


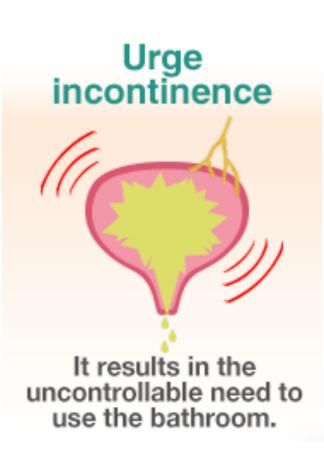


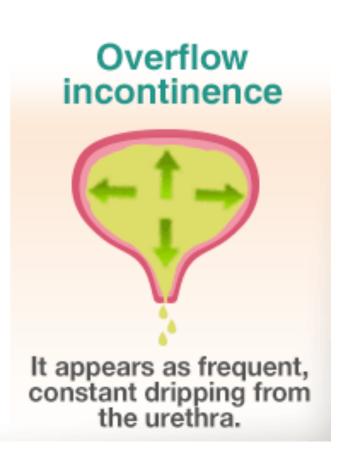
* With or without underlying prolapse

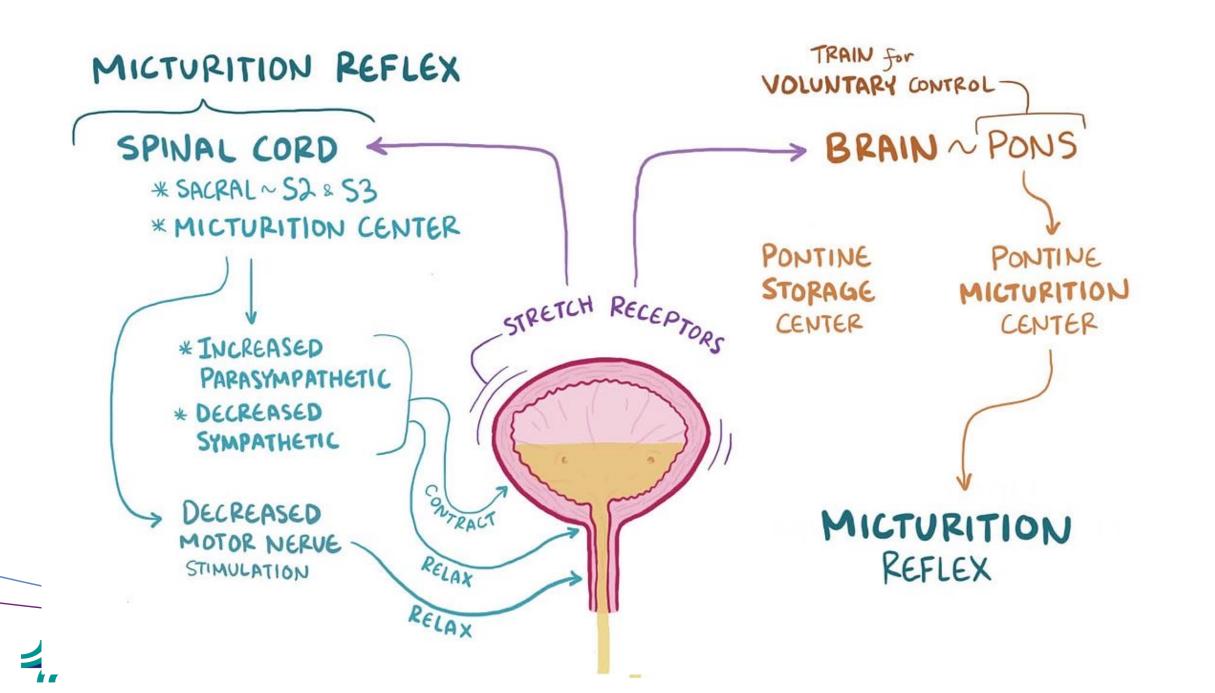
Urinary Incontinence











Stress Incontinence





Stress Urinary Incontinence (SUI)



Risk Factors

- Obesity
 - SUI = type of incontinence most impacted by weight loss
 - > 50% improvement following weight-loss surgery
- Sedentary lifestyles
- Pregnancies
- Age (menopause)
- Prolapse and/or weak pelvic floor

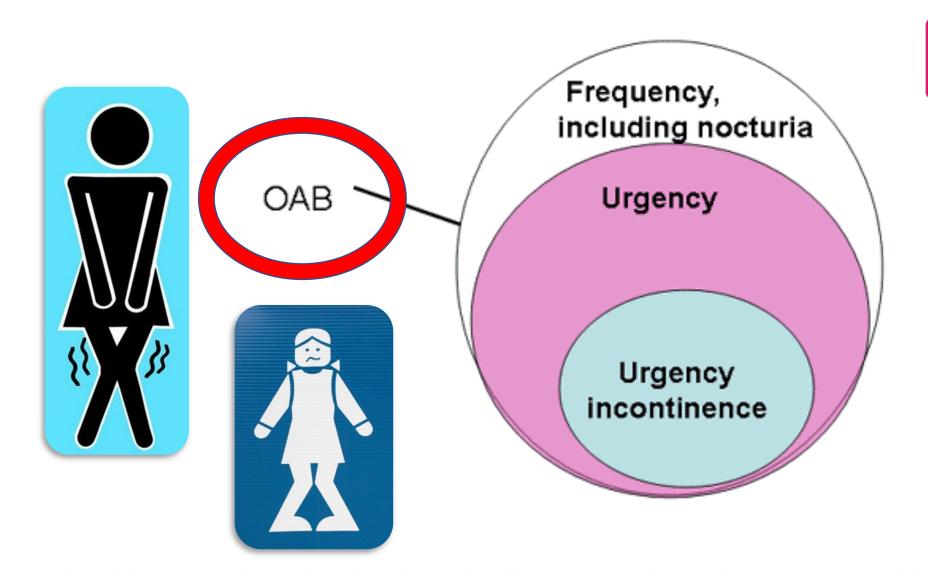
Presentation

- Leaking with cough, sneeze, laugh, exercise
- Small constant insensible loss of urine with walking/hiking
- Unusual symptoms: Large-volume uncontrollable loss of urine, enuresis, or incontinence with sexual intercourse



Urge Incontinence







OAB & Urge Incontinence



Risk Factors

- Obesity
- Use of bladder irritants
- Prolapse, or history of prolapse surgery
- Family history (Twin studies: 35-55% genetic, only 1.5% for SUI)
- Recurrent UTI's
- Hypertonic pelvic floors
- Anxiety

Presentation

- Frequency... day and night (nocturia)
- Urgency & urge accidents (bladder spasms)
- Bladder pain, chronic pelvic pain related to voiding



Common BLADDER IRRITANTS

The National Association For Continence

NAFC TEP: Drink plenty of water throughout the day. Limiting your liquids may result in fewer trips to the bathroom, but the smaller amount of urine is highly concentrated and irritating to the bladder.



Alcohol

Apples

Carbonated beverages

Chocolate

Citrus Juice & Fruits

Coffee

Corn Syrup

Cranberries

Spicy Foods

Honey

Milk

Sugar & Artificial Sweeteners

Tea

Tomatoes

Vinegar



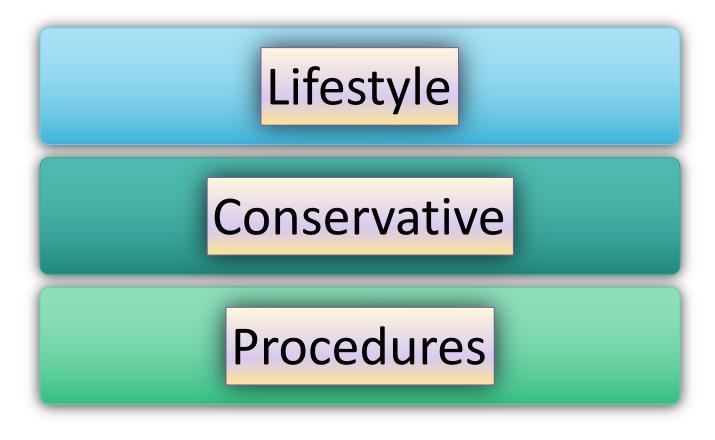


Treatments

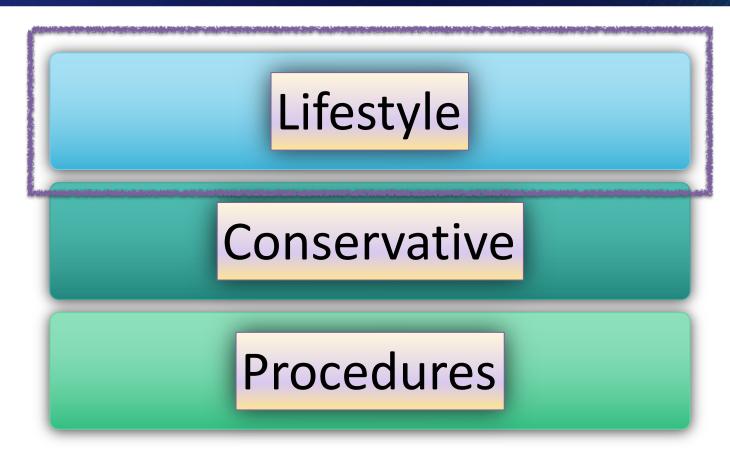


Lifestyle Conservative Procedures









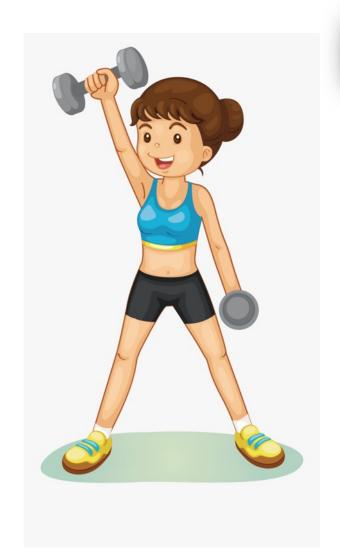


Correction of Risk Factors

- Weight loss
- Addressing constipation
- Whole body fitness!

Pelvic Physical Therapy

- Strengthen pelvic support
- Improve bowel and bladder function
- Address PFD-related pain



Lifestyle

External and internal soft tissue mobilization

biofeedback

myofascial



deep tissue massage

connective tissue manipulation

> electrical stimulation



visceral manipulation

> trigger point release

heat and cold therapy

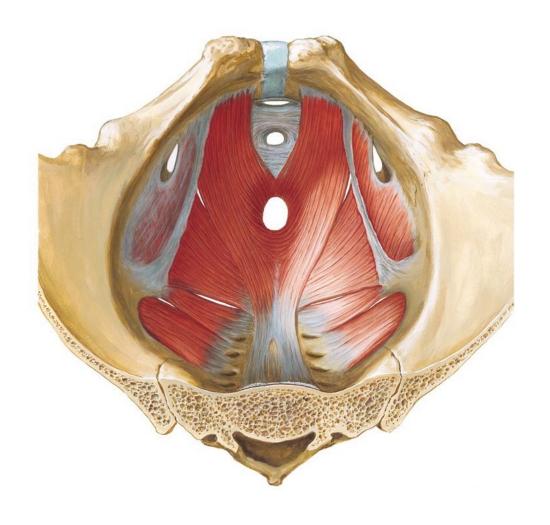
transcutaneous electrical nerve stimulation (TENS)

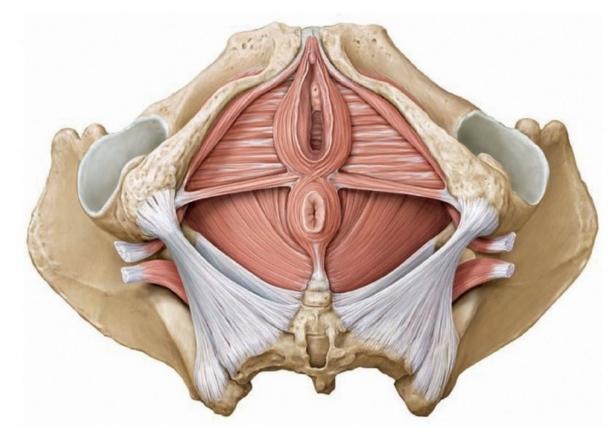




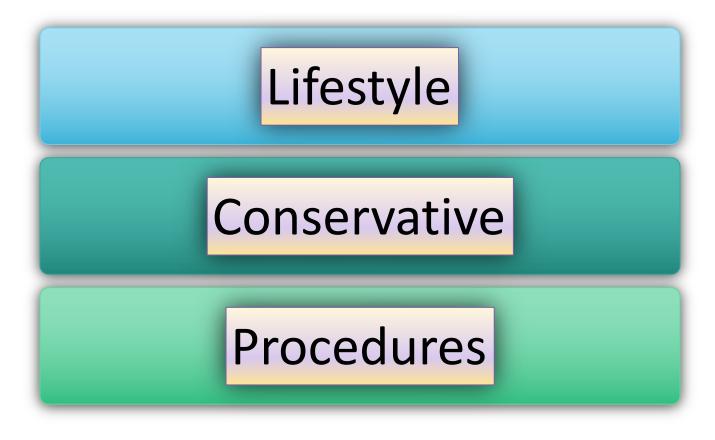
Strengthen? Relax? Balance?



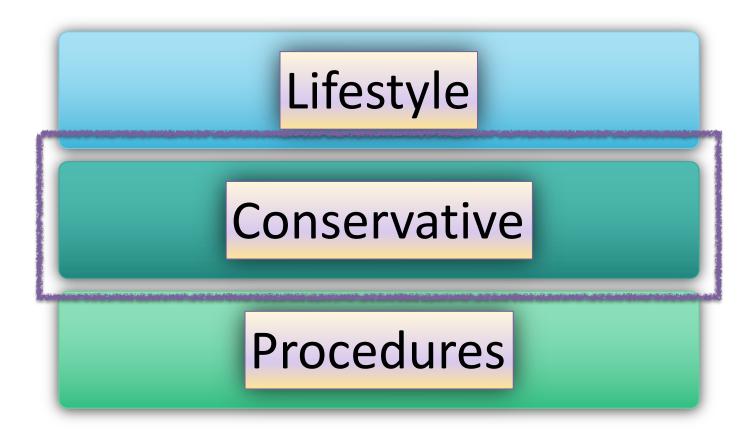










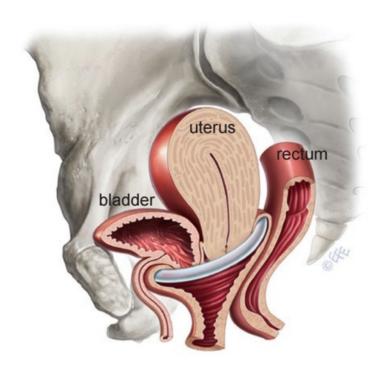




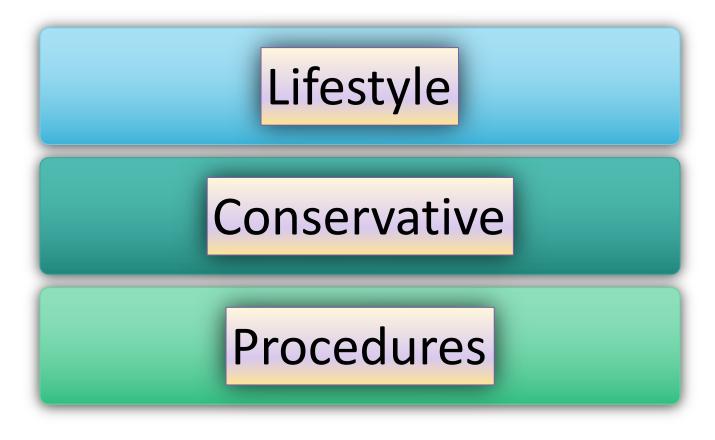
- Pessary
- Vaginal (bioidentical) Estrogen



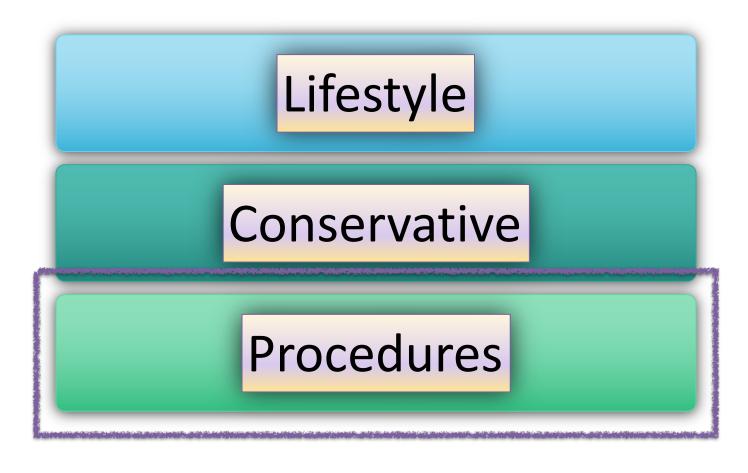












Prolapse Surgery



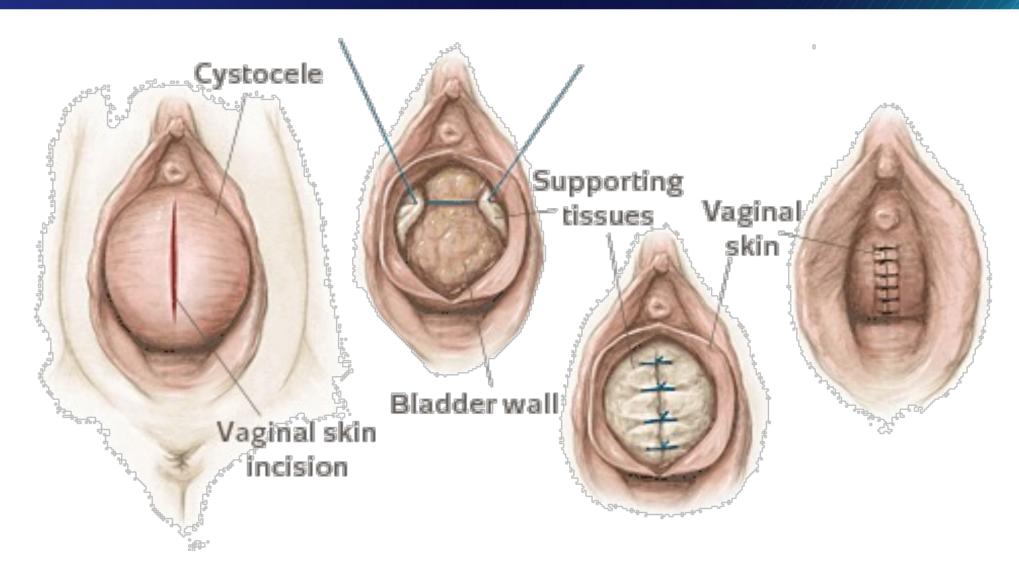
The type of surgery a woman needs... depends on the type of prolapse she has.

- Cystocele → Anterior repair (aka Bladder lift)
- Rectocele → Posterior repair

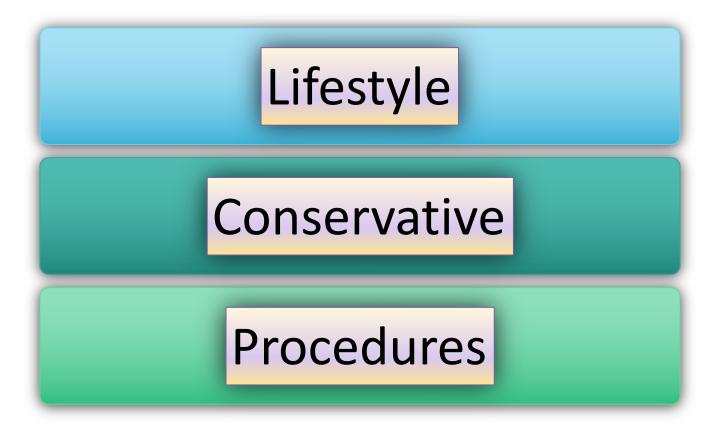
Notes:

- No mesh.
- Vaginal procedures (no incisions on the belly)
- Short hospital stay and recovery
- We do not need to remove your ovaries

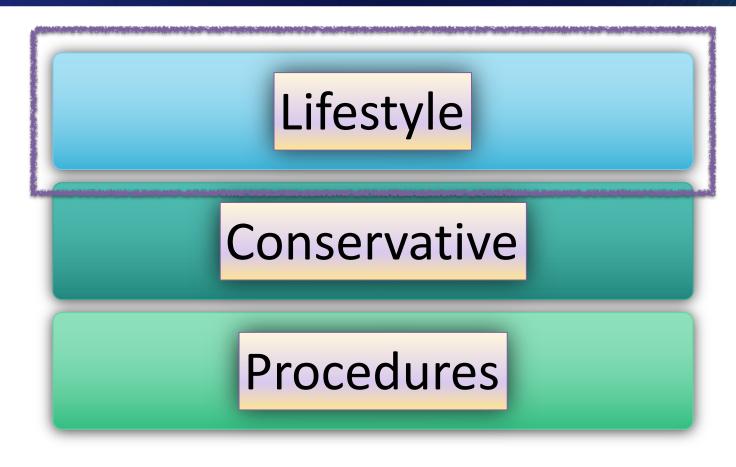














Correction of Risk Factors

- Weight loss
- Avoiding bladder irritants
- Mindfulness

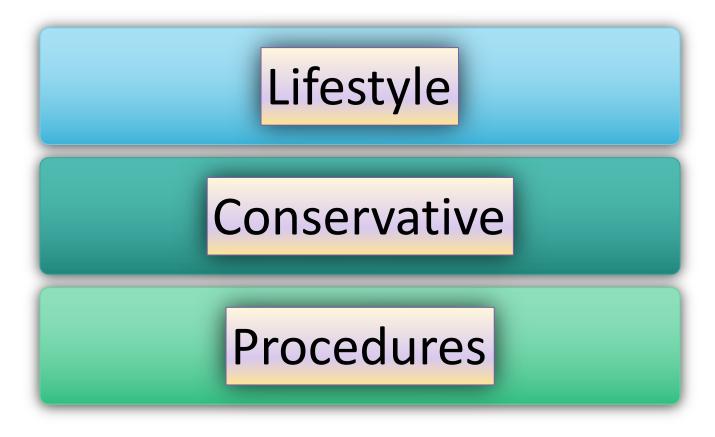
Pelvic Physical Therapy

- Down-train to Up-train
- Bladder training (biofeedback)

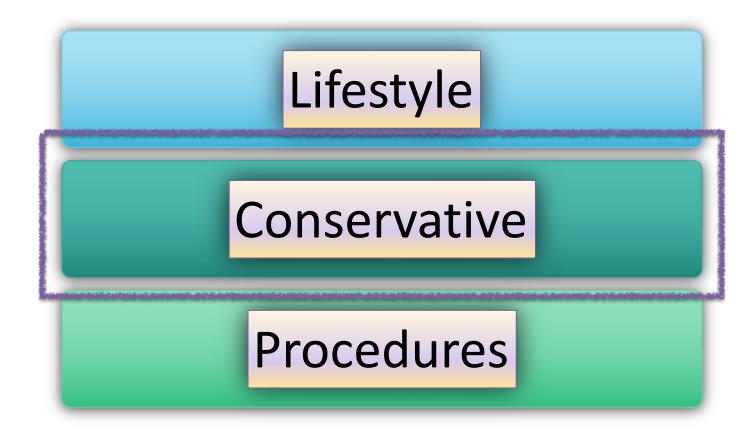


Lifestyle











Medications

- Reduce bladder spasm and reactivity
- "Anticholinergics" Oxybutynin, Detrol, etc.
- Side effects: Dry mouth, Dry eyes, None?

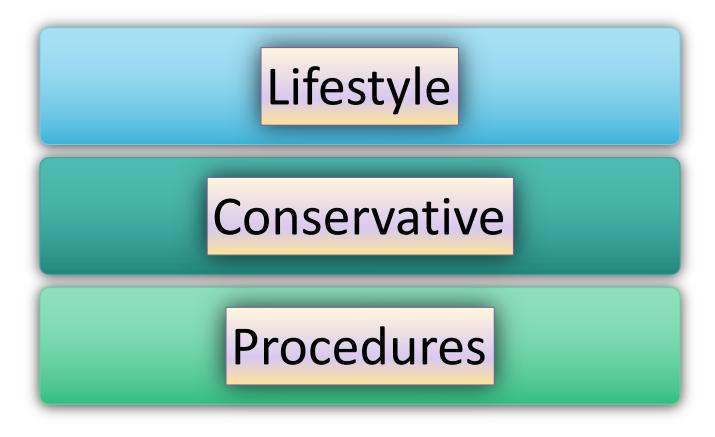




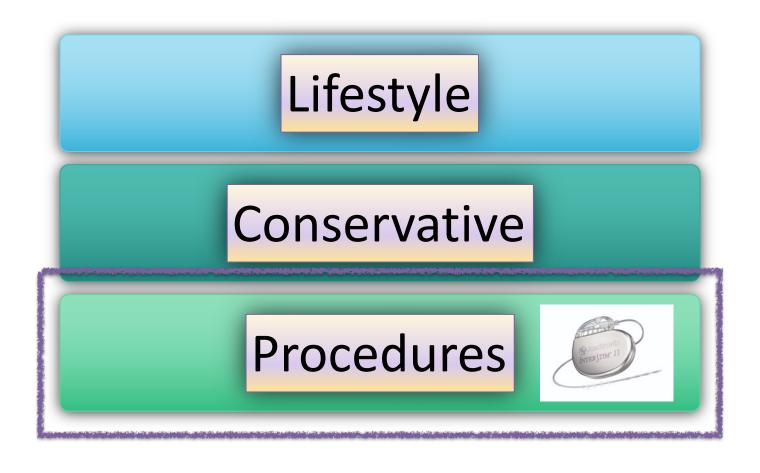


Conservative

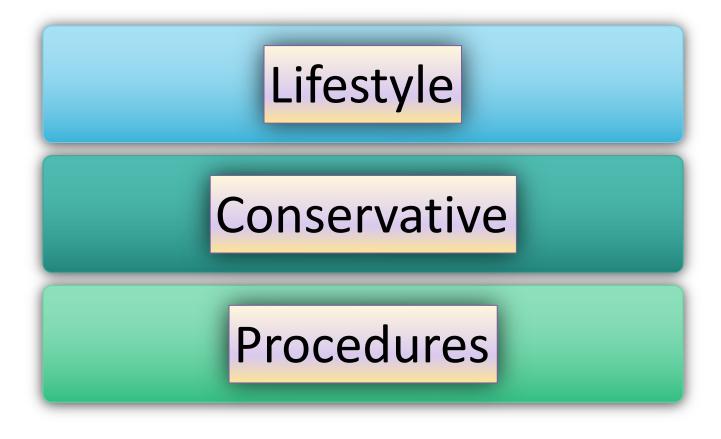




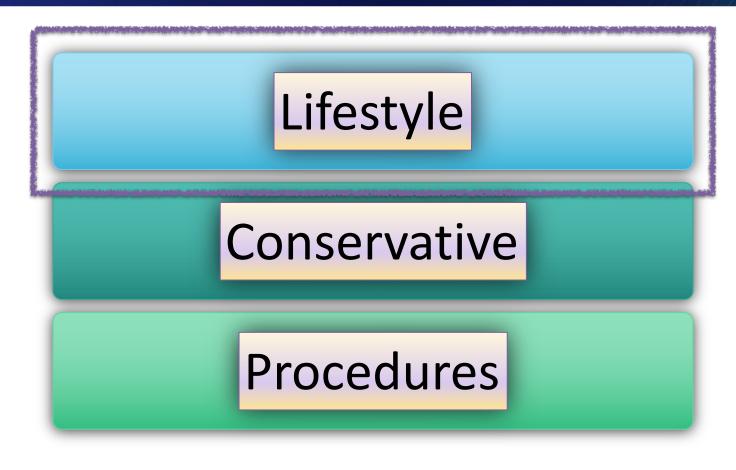










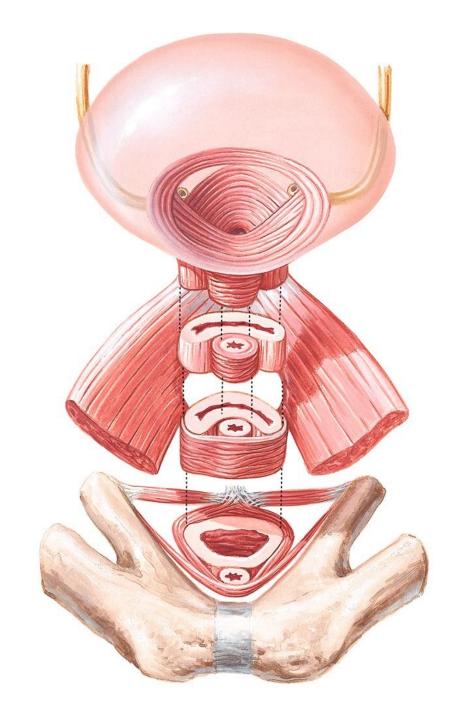




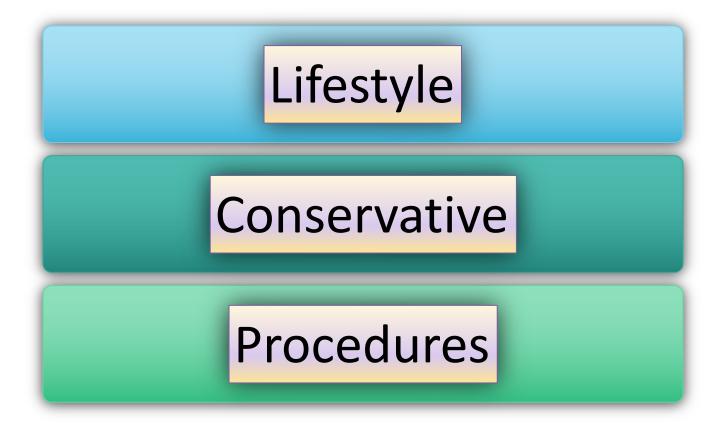
- Correction of Risk Factors
 - Weight-loss (!!!)
 - Addressing prolapse (if present)
 - Fix constipation
 - Voiding diary
- Pelvic Physical Therapy
 - Strengthening (Support AND Sphincters)



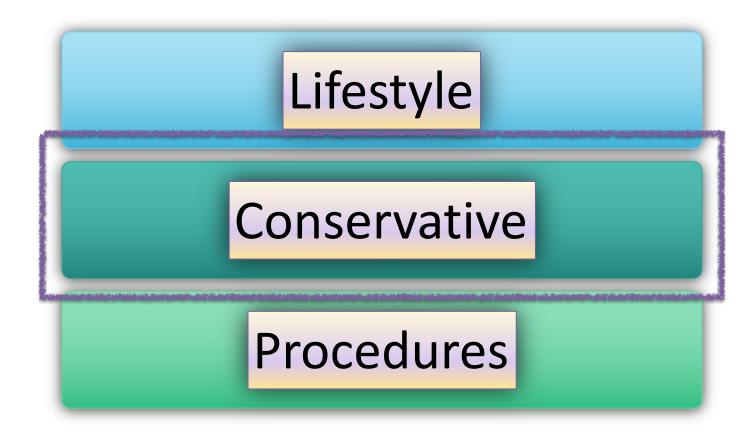














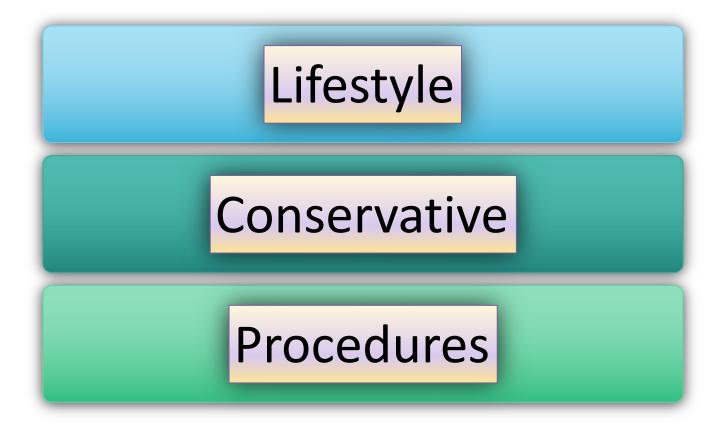


Conservative

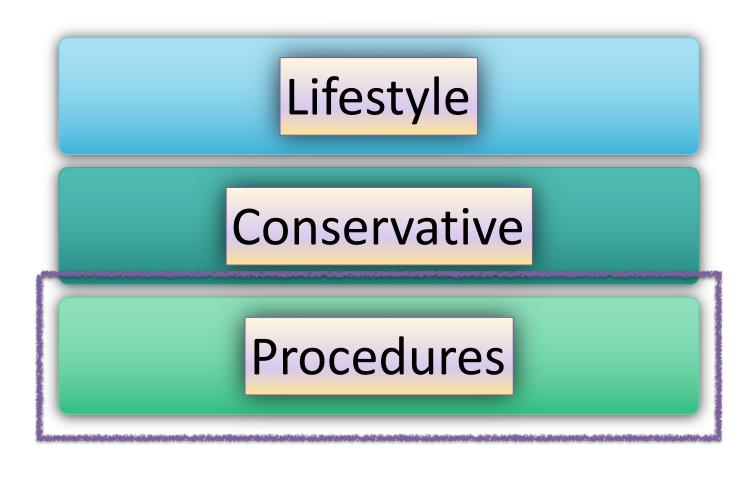






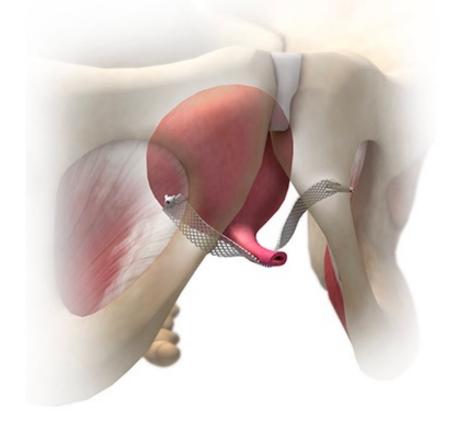






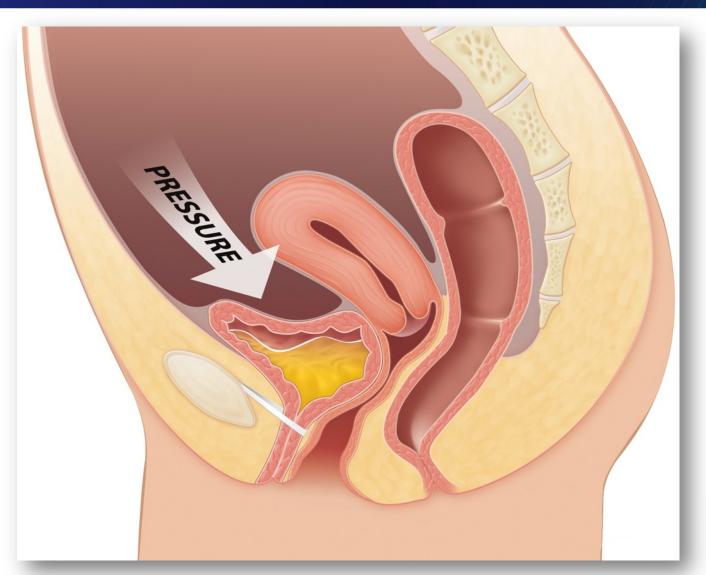






"Incontinence Slings"







- Outpatient surgery
- Single 1cm incision under the urethra
- Thin strip of permanent mesh
- Benefits:
 - 71-97% cure rate at 1 year
 - Maintained at 5 year follow-up
- Risks:
 - Injury to bladder or urethra during operation (1-5%)
 - Post-op urinary retention (1-2%) & New Urgency (15%)
 - Mesh erosion (1.1-2.6%)

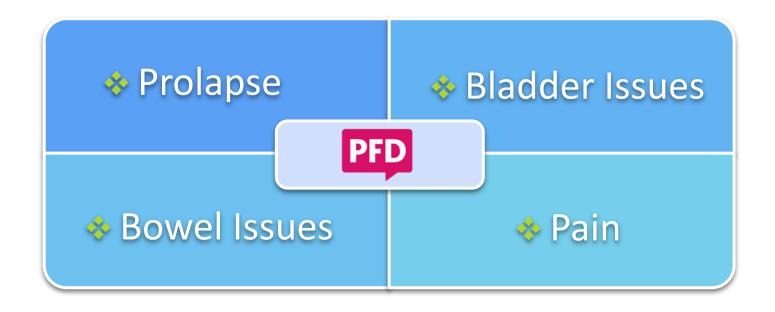




Trusted evidence. Informed decisions. Better health.

81 trials, 12,113 women





Conclusions



- These problems are very common, and very undertreated.
 - THE BEST fixes are ones that involve no surgery and allow you to heal yourself.
 - If you need a procedure, there are options with quick recovery and excellent success.
 - Do your Kegels (better yet, try Pelvic PT!)

Thank You!









Sources:



- American UroGyn Society (augs.org)
- Uptodate.com
- Voices for PFD (voicesforpfd.com)
- The International Pelvic Pain Society (pelvicpain.org)
- The University of Michigan Bowel Control Program (medicine.umich.edu/dept/michigan-bowel-control-program)
- The American Physical Therapy Association (apta.org)
- "Ultrasound Post-Void Residual", Michael Zwank, youtube.com
- The Poise Impressa, Kimberly-Clark Worldwide, Inc. (poise.com/products/impressa)
- Netter Atlas of Human Anatomy, 6e: Copyright © Elsevier Inc. (netterimages.com)







Advancing Female Pelvic Medicine and Reconstructive Surgery

Latest Treatments for a Leaky Bladder

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