



# Urine Luck: The Essentials for Managing Urinary Incontinence in Women

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DATE: 5/16/2025 PRESENTED BY: Dr. Tom Gregory, MD FACOG and Sarina Pollat, MD Urogynecology Fellow

# Contact

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# Roadmap

- Describe the etiologies, basic office work-up, initial treatment options for urinary incontinence
- Understand available resources for management

# What are Pelvic Floor Disorders (PFDs)?

- Urinary incontinence / Urinary frequency and urgency/nocturia/enuresis
- Pelvic organ prolapse
- Accidental bowel leakage/fecal incontinence

## Other

- Genitourinary syndrome of menopause
- Recurrent UTIs
- Painful Bladder Syndrome/Interstitial cystitis

# What are Pelvic Floor Disorders (PFDs)?

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“normal” vs  
“common”?

# Urinary Incontinence (UI)

So how common is it really?

- UI is one of the **10 most common chronic conditions** in women in the US (more common than hypertension, depression, or diabetes)
- Affects up to 62% of adult women in the US, prevalence increases with age
- Patients prefer that clinicians initiate a discussion about UI
- Routine screening and non-surgical treatment can decrease morbidity and improve QOL

# Urinary Incontinence: Etiologies

- Stress – accounts for 45-50% of women with UI
  - Weakened urethral sphincter, decreased pelvic floor support
- Urgency – account for 20% of women with UI
  - Bladder overactivity, increased afferent signaling from bladder
- Mixed (30%)
- Overflow
- Extraurethral

# Reversible Causes of Urinary Incontinence

- UTI
- Fistula
- Pregnancy
- Stool impaction
- Drugs (diuretics, etoh, tobacco)
- Increased urine production (hyperglycemia, diabetes insipidus, untreated OSA)
- Impaired ability/willingness to reach toilet



# Case 1

- 58 yo with 2 prior vaginal deliveries, T2DM, HTN presenting for healthcare maintenance evaluation
- HPI: No changes to health but “by the way, I’m leaking urine all of the time and it is very bothersome”
- +Frequency and urgency. Leaking on the way to the bathroom, when changing positions, wakes multiple times per night to void. Changing multiple pads per day.

# Case 1

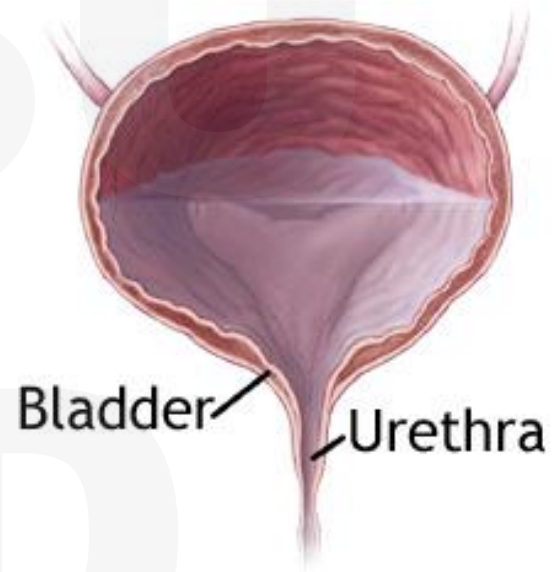
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Is this normal??

# Urinary Continence

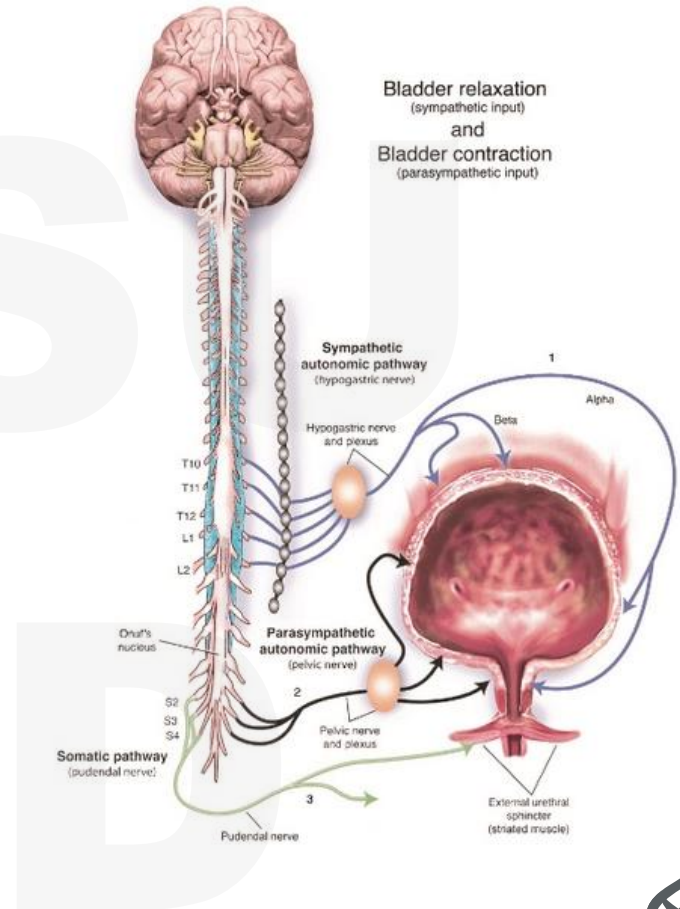
## Bladder anatomy

- Hollow, distensible, muscular organ
- Reservoir of urine and organ of excretion

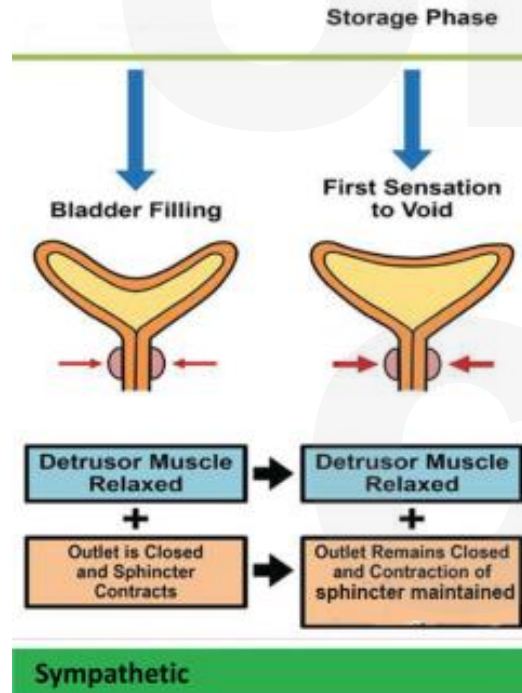


# Urinary Continence

- The bladder serves two “simple” primary functions
  - Filling & Storage
  - Voiding
- Regulated by complex interaction of autonomic and central nervous system



# Urinary Continence



Cystometry

Changes in bladder shape

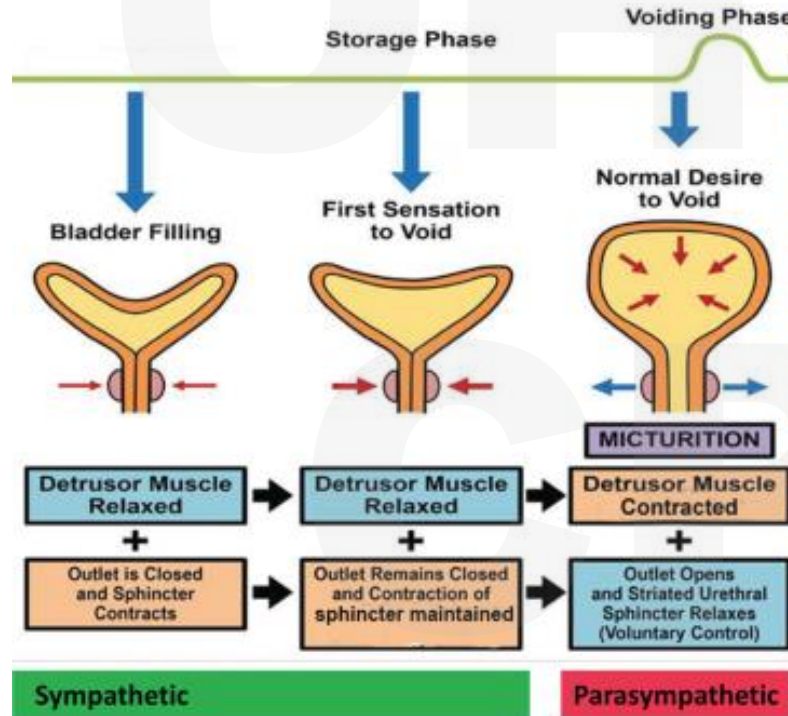
Detrusor tone

Sphincter tone

Dominant nervous system



# Urinary Continence



Cystometry

Changes in bladder shape

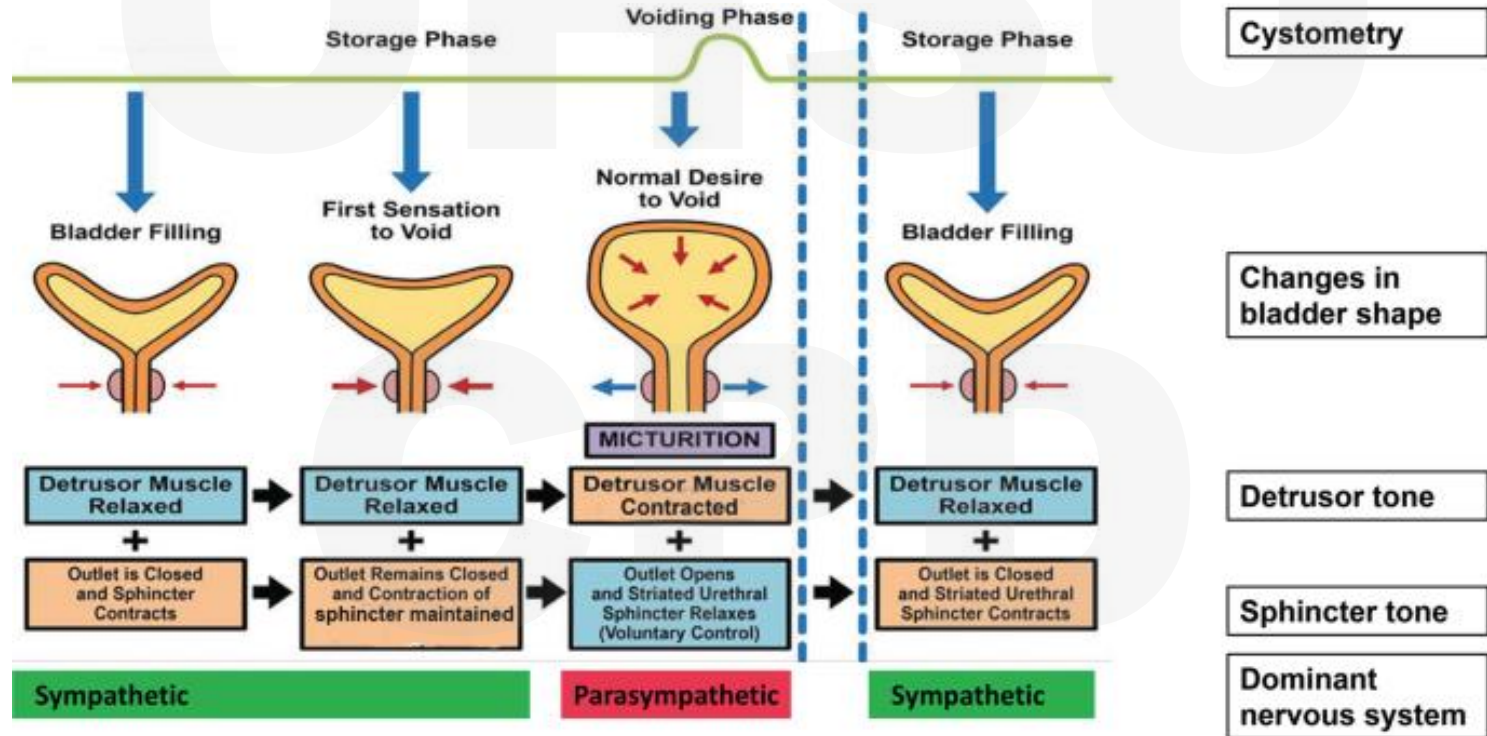
Detrusor tone

Sphincter tone

Dominant nervous system



# Urinary Continence



# Urinary Incontinence: a Storage Problem



**Detrusor tone**

**Sphincter tone**

Abnormal detrusor sensory pathway → Urgency

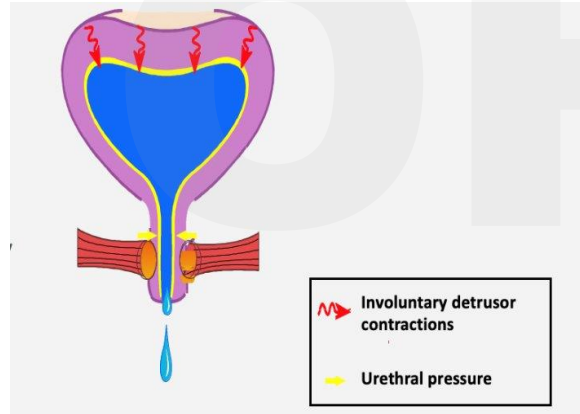
Bladder overactivity and hypersensitivity  
Increased afferent signaling from bladder urothelium

Urethral/pelvic muscle dysfunction → Stress

Insufficient closure of urethra  
Decreased pelvic floor support  
Decreased ability to contract pelvic floor muscles

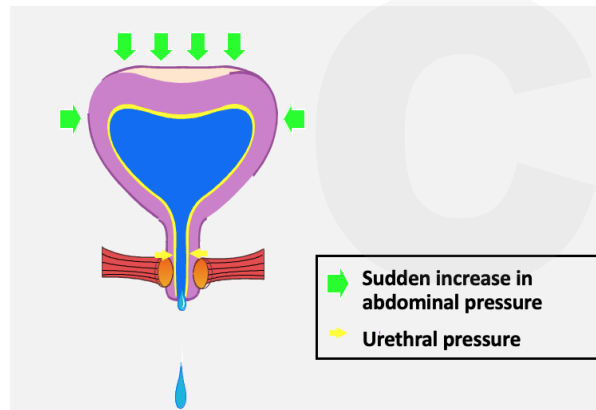


# Urinary Incontinence: a Storage Problem



Abnormal detrusor sensory pathway → Urgency

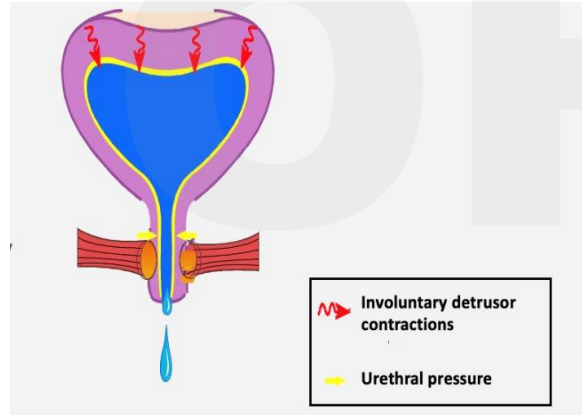
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Urethral/pelvic muscle dysfunction → Stress

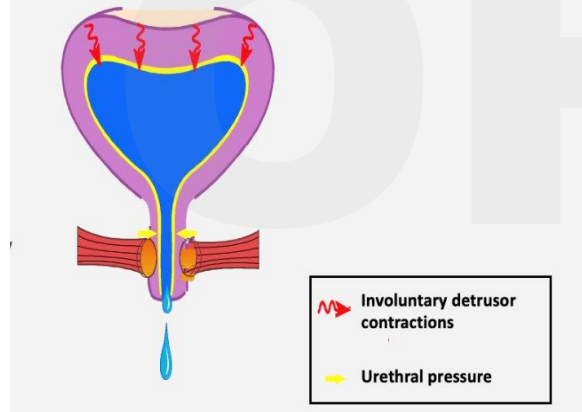
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# Urinary Incontinence: a Storage Problem



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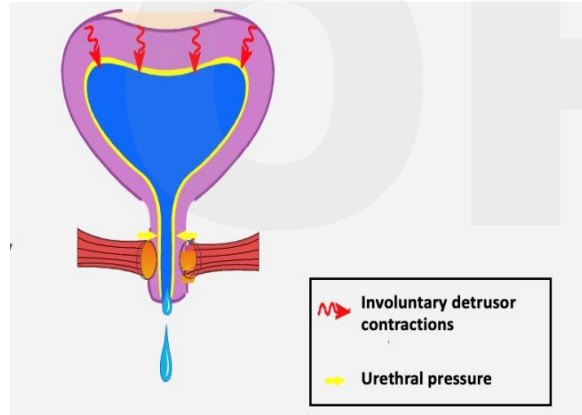
with leakage

## Urgency urinary incontinence (UUI)

Involuntary loss of urine associated with sudden, compelling desire to void

"Gotta go, gotta go", running water, keys in the door, cold weather

# Urinary Incontinence: a Storage Problem



Abnormal detrusor sensory pathway → Urgency

with leakage

with or without leakage

## Urgency urinary incontinence (UUI)

Involuntary loss of urine associated with sudden, compelling desire to void

"Gotta go, gotta go", running water, keys in the door, cold weather

## Overactive bladder (OAB)

Urinary urgency, usually with frequency and nocturia, with or without incontinence, in the absence of infection or other pathology

# Case 1

- 58 yo with 2 prior vaginal deliveries, T2DM, HTN presenting for healthcare maintenance evaluation
- HPI: No changes to health but “by the way, I’m leaking urine all of the time and it is very bothersome”
- +Frequency and urgency. Leaking on the way to the bathroom, when changing positions, wakes multiple times per night to void. Changing multiple pads per day.

**What other information do we need?**

# Diagnosis of UI: patient history

## Ask:

- During the last 3 months, have you leaked urine, even a small amount? **If yes:**
- Do you leak urine when you cough, sneeze, laugh?
  - Quantify: always, sometimes, rarely, never
- Do you leak urine when you are on your way to the toilet? Associated with a strong urge to urinate but you can't make it?
  - Quantify: always, sometimes, rarely, never

## Evaluate:

- Level of bother

# Patient history

- Assess symptom severity and goals of treatment (very important!)
- Ask about prolapse symptoms
  - Have you noticed or felt a vaginal bulge?
- Identify bladder irritants (tobacco, alcohol, carbonated beverages)
- Focus on medical, neurologic, and genitourinary histories, evaluate functional status, review medications
- **Can consider return visit to address specific symptoms and review voiding diary**

# Voiding Diary

- Use the voiding diary
  - What are you drinking?
  - When are you drinking it?
  - How much are you drinking?

24-hour Voiding Diary						Name: _____	
Date: _____		Awakening time: <u>7:00 AM</u>		Bedtime: <u>10:30 PM</u>			
Time	Fluid Intake Amount	Time	Void Amount	Leaks or Accidents	Strong urge to urinate?	Activity when you leaked or had urge	
7:30	120 coffee						
7:40	90 water	7:45	30				
		8:05	30				
		8:25	80	y	y	Yoga	
		8:45	30	y	y	walking	
		9:15	60				
9:35	90 milk						
	120 decaf	9:55	60	y	n	sitting	
		10:35	90	y	y	walking	
		11:45	60	y	n		
		12:22	30				
1:30	240 cranberry juice	1:30	90	y	w	drops on pad	
		2:30	30				
		3:15	60				
		4:35	90	y	y	housework	
3:05	150 cranberry juice	6:10	30				
		8:05	60				
6:45	180 decaf	10:20	90	y	y	eating dinner	
		12:25	90			sleeping	
		2:10 A	90			sleeping	
		4:05 A	90			sleeping	
		Daytime voids	10	810 ml.			
		Nighttime voids	0	270 ml.			
Total	870 ml.	Total	1080 ml.				



- Use the voiding diary
  - What are your voiding habits?
  - Urine output
  - Number of incontinence episodes?



# Physical Exam

- General – mental status, mobility
- Abdominal – masses, suprapubic tenderness
- (Genitourinary – prolapse, atrophy, irritant contact dermatitis, cough stress test)
- Extremities – lower extremity edema, sensory function

# Additional Testing

- Urinalysis
  - Treat symptomatic bacteriuria/acute cystitis
  - Investigate hematuria in the absence of UTI
- Postvoid residual
  - >200 supports overflow incontinence
  - Obtain if sx of incomplete emptying or urinary retention

# Case 1

58 yo with 2 prior vaginal deliveries, T2DM (6.6%), HTN (on lisinopril), BMI 44 presenting for healthcare maintenance evaluation .

+Frequency and urgency. Leaking on the way to the bathroom, when changing positions. Very bothersome to her. Denies leaking with coughing, sneezing, laughing. No prolapse.

- Drinking 24 oz iced sugar free Frappuccino, 3 diet sodas, 2 beers

**Management?**

# Management Options

**Management should be triaged by UI type and patient goals of care**

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Noninvasive options	Stress UI	Urgency UI
Lifestyle modifications	X	X
Pelvic floor physical therapy	X	X
Bladder retraining		X
TTNS/PTNS		X
Pharmacologic therapy		X
Vaginal inserts/pessaries	X	

# Management Options

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Management should be triaged by UI type and patient goals of care

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# Management Options for Case 1

58 yo with 2 prior vaginal deliveries, T2DM (6.6%), HTN (on lisinopril), BMI 44 presenting for healthcare maintenance evaluation also with urgency urinary incontinence.

- Diabetes management
- Lifestyle/Behavior modifications
- Pelvic floor exercises

# Lifestyle and Behavioral Modifications

- Fluid management
  - 50-60 oz is sufficient for most. Let thirst be your guide
  - Fluid restrict prior to bed
- Eliminate/reduce bladder irritants
  - Caffeine (coffee, tea, soda), carbonated beverages, artificial sweeteners, alcoholic beverages, citrus juices
- Weight loss (5-10% reduction in body weight)
- Manage constipation

# Pelvic Floor Exercises

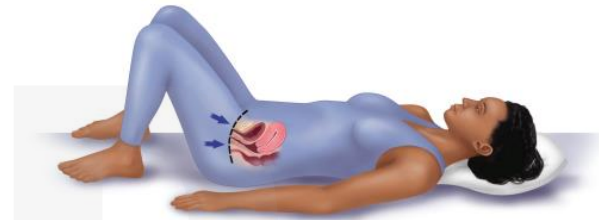
- At- home exercises
- Pelvic floor physical therapy referral – provide biofeedback to help patients learn to contract, relax, and coordinate muscles

## Pelvic Floor Muscle Exercises and Bladder Training

Voices for PFD

AUGS

If you are experiencing urinary leakage, pelvic floor muscle exercises (Kegels) and bladder training are two things you can do to help control your urinary symptoms.



# Bladder training

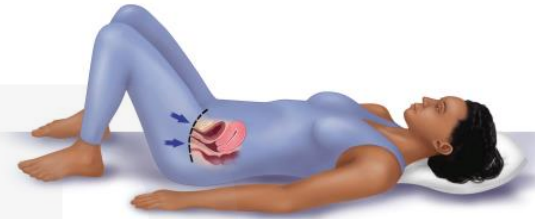
- Timed voiding
- Urge suppression techniques

## Pelvic Floor Muscle Exercises and Bladder Training

Voices for PFD

AUGS

If you are experiencing urinary leakage, pelvic floor muscle exercises (Kegels) and bladder training are two things you can do to help control your urinary symptoms.



# Case 1 Follow-up Visit

58 yo with 2 prior vaginal deliveries, T2DM (6.6%), HTN (on lisinopril), BMI 44 presenting for follow-up visit for urgency urinary incontinence.

Since her last visit, she has adjusted bladder irritants, tried pelvic floor exercises, but remains bothered by her symptoms.

**Management?**

# Management Options for Case 1

- Pharmacologic therapy

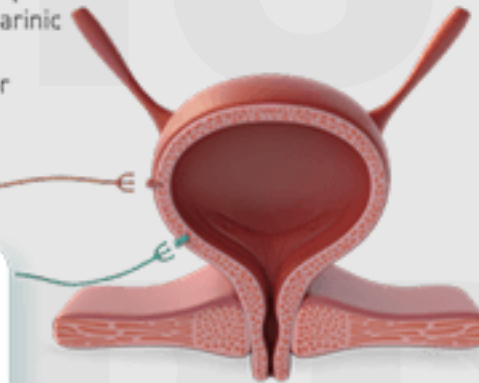
# Pharmacologic Therapy

Anticholinergics



**M<sub>3</sub> (muscarinic) receptor**  
Activating the muscarinic receptors contracts the bladder detrusor muscle to mediate bladder emptying<sup>2</sup>

**Beta-3 receptor**  
Activating the beta-3 adrenergic receptors relaxes the bladder detrusor muscle to increase capacity<sup>1-3</sup>



For illustrative purposes only.

# Pharmacologic Therapy

Anticholinergics

Medication	Starting Dose	Maximum Dose
Darifenacin XR (Enablex)	7.5 mg once daily	15 mg once daily
Festerodine (Toviaz)	4 mg once daily	8 mg once daily
Oxybutynin XR (Ditropan XL)	5–10 mg once daily	30 mg once daily
Oxybutynin IR (Ditropan)	5 mg two or three times daily	5 mg four times daily
Oxybutynin transdermal patch (Oxytrol)	1 patch once every 3–4 days	Same as starting dose
Tolterodine XR (Detrol LA)	2 mg once daily	4 mg once daily
Tolterodine IR (Detrol)	1 mg twice daily	2 mg twice daily
Solifenacin (Vesicare)	5 mg once daily	10 mg once daily
Trospium XR (Sanctura XR)	60 mg once daily	Same as starting dose
Trospium IR (Sanctura)	20 mg once daily	20 mg twice daily
Mirabegron (Myrbetriq)	25 mg once daily	50 mg daily
Vibegron (Gemtesa)	75 mg once daily	Same as starting dose



# Pharmacologic Therapy

Anticholinergics

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Mirabegron (Myrbetriq)	25 mg once daily	50 mg daily
Vibegron (Gemtesa)	75 mg once daily	Same as starting dose

Lowest brain penetration

# Pharmacologic Therapy

## Beta 3 Agonists

- Equivalent to anticholinergics without those side effects
- Common side effects are HA, nasal congestion
- Mirabegron can increase BP by 1-10mmHg systolic

Mirabegron (Myrbetriq)	25 mg once daily	50 mg daily
Vibegron (Gemtesa)	75 mg once daily	Same as starting dose

# Anticholinergics and Cognitive Risk

- Studies suggest a 49% increased odds of dementia with anticholinergic exposure of dosages equivalent to 3 years of daily use (Coupland et al. 2019)
- AUA's "Choosing Wisely" campaign states use of anticholinergic medications to treat OAB in women older than 70 years should be avoided

# Contraindications for Anticholinergics

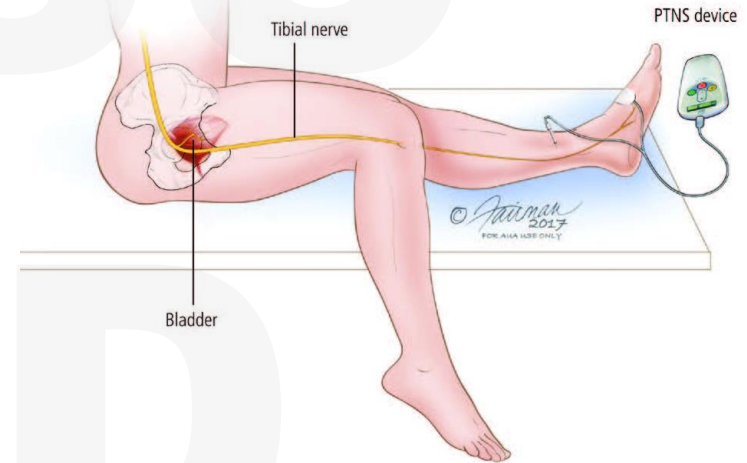
- Urinary retention
- Gastric retention
- Cardiac arrhythmias
- Narrow angle glaucoma

# Other Options for Case 1

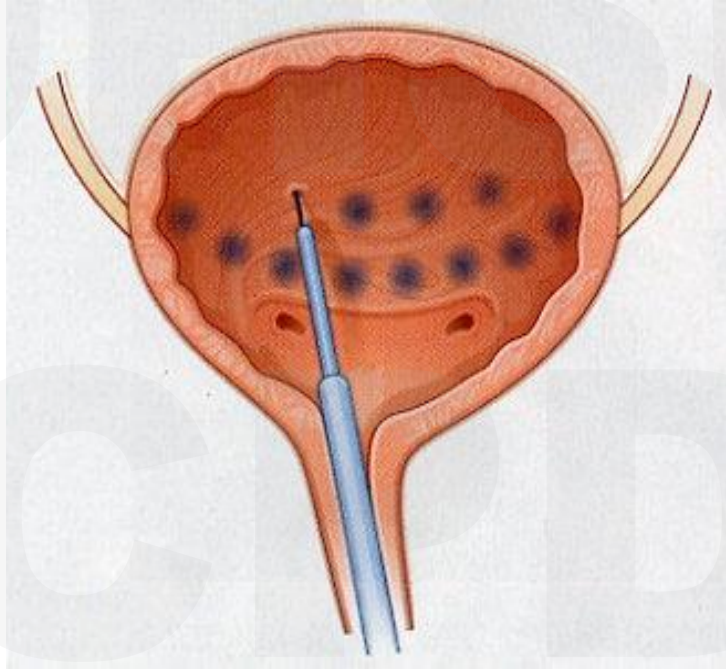
- Intravesical botulinum toxin
- Neuromodulation
  - Tibial nerve stimulation (PTNS/TTNS and implantable TNS)
- Sacral neuromodulation

# Tibial Nerve Stimulation (TTNS)

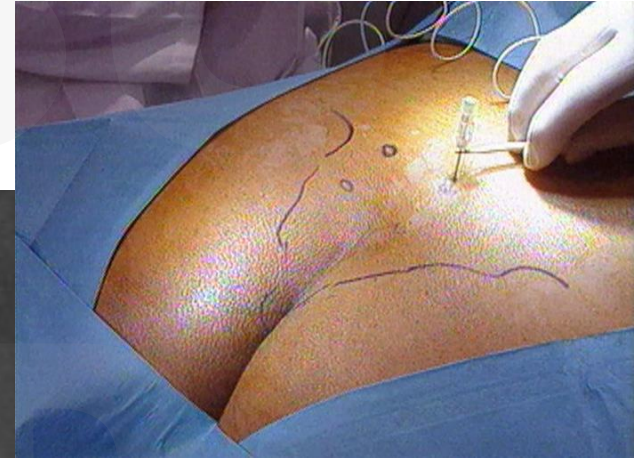
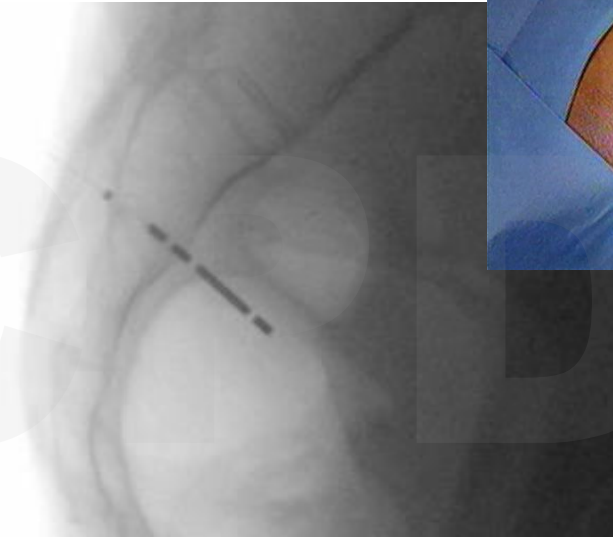
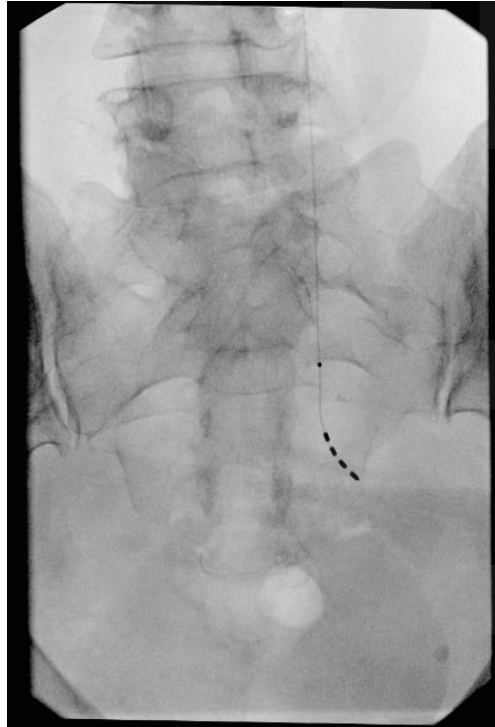
- Tibial nerve originates from the same sacral plexus that gives rise to parasympathetic bladder innervation
- Electrical stimulation of the tibial n. can regulate bladder function and inhibit detrusor overactivity
- RCT comparing PTNS vs anticholinergic found no difference in reduction in frequency of voids, less side effects for PTNS (Etaskin et al, 2012)



# OnabotulinumtoxinA



# Sacroneuromodulation





# Management Options

Noninvasive options	Stress UI	Urgency UI
Lifestyle modifications	X	X
Pelvic floor physical therapy	X	X
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# Management Options

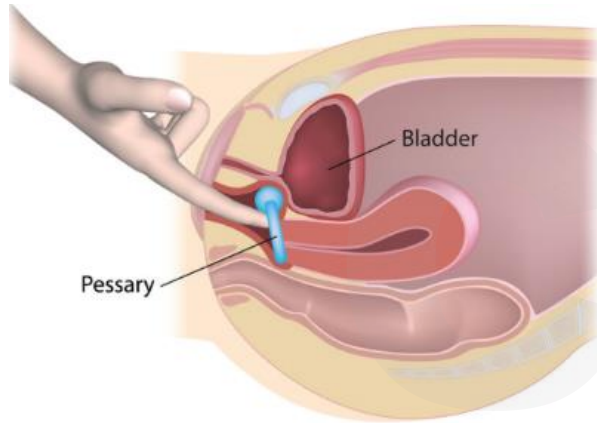
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# Incontinence Vaginal Devices

For stress urinary incontinence



# Advanced Treatment Options

## SUI

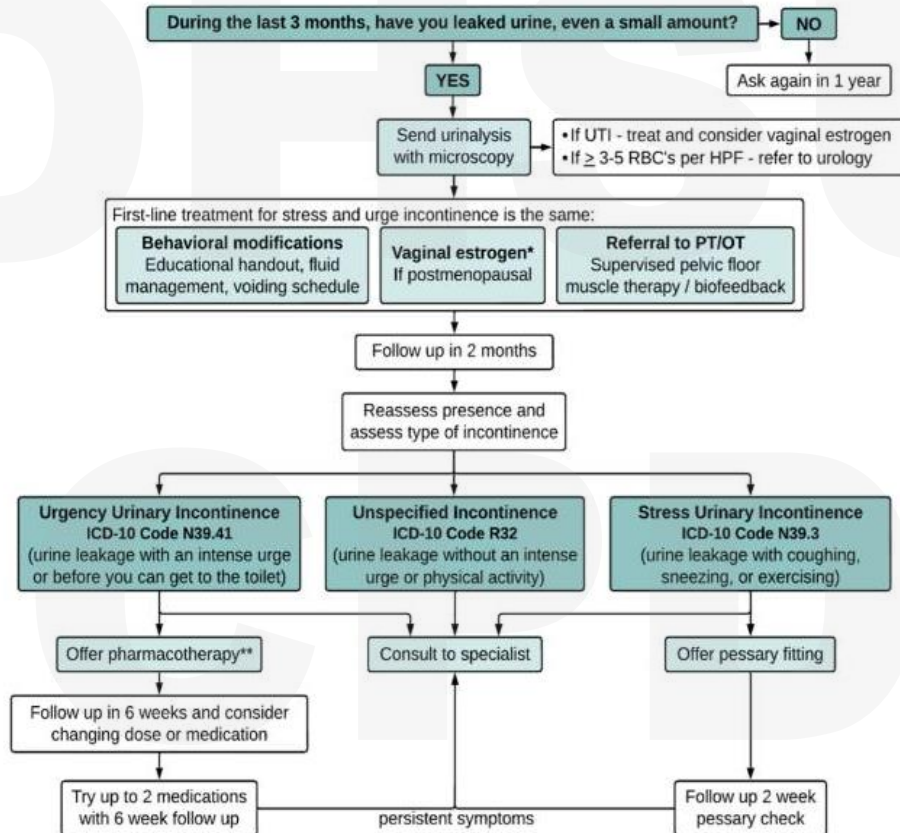
- Urethral bulking injections
- Surgery
  - Midurethral sling
  - Pubovaginal sling
  - Burch colposuspension

# When to Refer?

- Referral to urology or urogynecology
  - Recurrent urinary incontinence
  - Persistent symptoms despite initial therapies
  - Insensible urinary leakage
  - Severe pelvic organ prolapse
  - Prior pelvic surgery
  - Prior pelvic radiation
  - Hematuria
  - Urinary retention
  - Suspected fistula
  - New neurologic symptoms in addition to urinary symptoms

# Female Urinary Incontinence in Primary Care

Urinary incontinence is common but not normal. More than 80% of women over 65 years have urinary incontinence.



# Pearls

Screen: In the last 3 months, have you leaked urine, even a small amount?

Evaluate: history, exam, UA

Diagnose: stress, urgency, mixed

Treat: lifestyle modifications, behavioral treatments, PFPT referral?

- Stress: vaginal devices
- Urge: medications

Reassess/Refer



# Resources

## Patient Fact Sheets

Home / Patient Fact Sheets

Voices for PFD

f t y Contact Us

About Pelvic Organ Prolapse Bladder Control Bowel Control Painful Bladder Syndrome Mesh Information for New Moms Resources Community Find a Provider

### What are PFDs?

Pelvic floor disorders (PFDs) are a group of conditions that affect the pelvic floor due to weakened pelvic muscles or tears in the connective tissue.

Learn More



### Incidental Bowel Leakage

Incidental Bowel Leakage (IBL) is the loss of normal control of the bowels, leading to a loss of fecal continence. It is the leakage of stool and gas (or even mucus) from the rectum and anus, and about 8 percent of people with rectal and anal disorders experience it during their lifetime.

IBL can be a frustrating condition, often leading to embarrassment and social isolation. It is a complex condition that can be caused by a variety of factors, including aging, childbirth, and certain medical conditions. While there is no cure for IBL, there are many treatment options available, including lifestyle changes, pelvic floor therapy, and surgery. It is important to consult with a healthcare provider to determine the best course of action for your individual situation.

**LEARN THE TERMS**  
**Asymptomatic microscopic hematuria (AMH)** is a condition in which there is blood in the urine, but no other symptoms are present. It is often discovered during a routine urinalysis. While the cause of AMH is often unknown, it can be a sign of a more serious condition, such as a urinary tract infection or kidney disease. It is important to consult with a healthcare provider to determine the cause of AMH and to monitor for any changes in your urine.

Incidental Bowel Leakage  
[Click here to download this fact sheet](https://www.augs.org/patient-fact-sheets/incidental-bowel-leakage)

### Asymptomatic Microscopic Hematuria

Asymptomatic microscopic hematuria (AMH) occurs when there is an abnormal amount of red blood cells (RBCs) in a single properly collected urine sample. Many benign conditions can cause this. An evaluation should be performed to rule out concerning conditions, such as cancer.

**About AMH**  
 Asymptomatic microscopic hematuria is defined as 3 RBCs per high power field (HPF) or more and blood in a single properly collected urine specimen. Your health care provider may request a repeat urine test at a later date. While AMH is a good preliminary test, it is not a definitive test. A variety of factors may cause a preliminary test to be positive. These may include the following:

- urinary tract infection
- exercise-related changes
- urinary tract stones
- small tears or tears at the vagina or vulva
- urinary tract cancer

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Asymptomatic Microscopic Hematuria

### Botox® Injections to Improve Bladder Control

The success rate of Botox® bladder injections ranges from 80 to 90 percent for urinary incontinence. Botox is a toxin that relaxes the muscles of the bladder, which can help improve bladder control. It is often used for people with overactive bladder (OAB) who have not responded to other treatments. Botox injections are typically performed in an office setting and are a minimally invasive procedure. The results can last for several months, and the procedure can be repeated if needed.

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Botox Injections to Improve Bladder Control

<https://www.voicesforpfd.org/>

<https://www.augs.org/patient-fact-sheets/>

# Resources



Patient Name:

**Instructions:**

1. Choose 4 days (entre 24 hours) to complete this record – they do not have to be in a row. Pick days that will be convenient for you to measure every void.
2. Begin recording when you wake up in the morning—continue for a full 24 hours.
3. **Make a separate record for each time you void, leak, or have anything to drink.**
4. Measure voids (using 66 measurements).
5. Measure fluid intake in ounces.
6. When recording a leak – please indicate the volume using a scale of 1-3 (1=drops/damp, 2=wet-soaked, 3=bladder emptied), your activity during the leak, and if you had an urge ("yes" or "no").

[illegible]

American Urogynecologic Society | 1100 Wayne Ave, Suite 670 | Silver Spring, MD 20910 | P (301) 273-0570  
www.voicesforpfd.org | info@auogs.org



<https://www.voicesforpfd.org/>



# Resources – Clinical Trials

## REduced-dose on abotuLinumtoxinA for urgency Incontinence among Elder Females (RELIEF)

OHSU



👤 Age: 70+

❤️ Healthy Volunteers: Yes

🔑 Keywords:  
Leaking urine, Urinary incontinence

♀️ Sex: Female

📋 Type: Drug Study



Volunteer for research at OHSU  
and contribute to discoveries that  
may improve health care for you,  
your family, and your community!

I'm interested in  
this study

Share study



Investigator



Sara Cichowski, M.D., Associate Professor  
SM.OB/GYN Urogynecology Division  
[View profile](#)

# Resources – Clinical Trials

At-home TTNS for OAB in rural women study

PI: Sara Cichowski, MD

**CLINICAL TRIAL OPPORTUNITY**

**Do you experience frequent urination associated with a sudden, strong urge to urinate?**

You may be eligible to participate in a research study evaluating a treatment that can be done at home.

People with overactive bladder describe symptoms such as a strong, sudden urge to urinate (pee) often with frequent urination, including at night, and sometimes with involuntary leakage. Stimulation of the tibial nerve in the ankle with a TENS machine can improve bladder activity and reduce these symptoms.

We are doing a study to look at the effectiveness of this home-based treatment for women living in rural areas, without needing to visit a doctor.




**You may be eligible if you:**

- Are female and 18 years of age or older
- Live in a rural location
- Have symptoms of overactive bladder as described above

**What is involved?**

Participants will use a TENS device to deliver gentle electrical impulses to the tibial nerve on one ankle for a 30-minute session, three times weekly, for 12 weeks

For more information, and/or to find out if you qualify for this study, contact the OHSU Women's Health Research Unit at 503 494-3666 or WHRU@ohsu.edu



# References

- Dr. Ian Fields, Dr. Liz Robison for slide content
- “Urinary Incontinence Essentials for Primary Care” presentation by Dr. Catherine Bradley for AUGS
- Patel UJ, Moureau MK, Neuner JM, Brown HW. Screening and Treating Urinary Incontinence in Primary Care: A Missed Opportunity. OBM Geriatr. 2023;7(4):252. doi: 10.21926/obm.geriatr.2304252. Epub 2023 Oct 5. PMID: 38567050; PMCID: PMC10986360.





*"Whenever somebody tells me 'You go girl'  
I generally have to."*



Thank You