

Bladder Troubles

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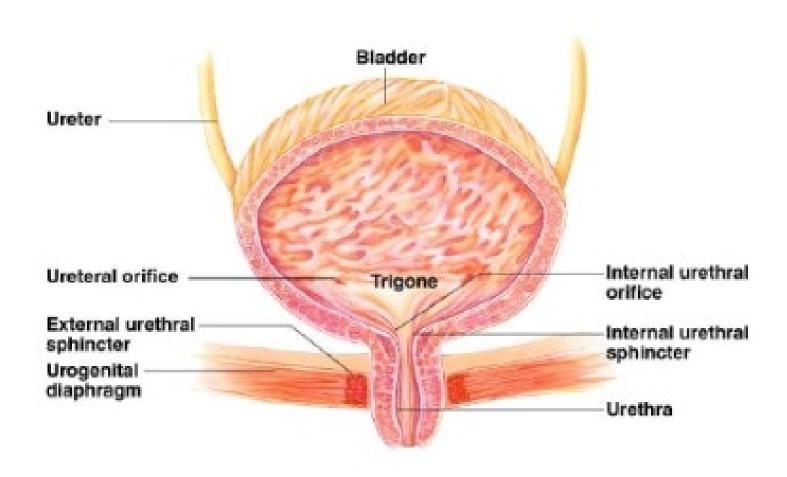


Disclosures

Investigator for Medtronic Inc

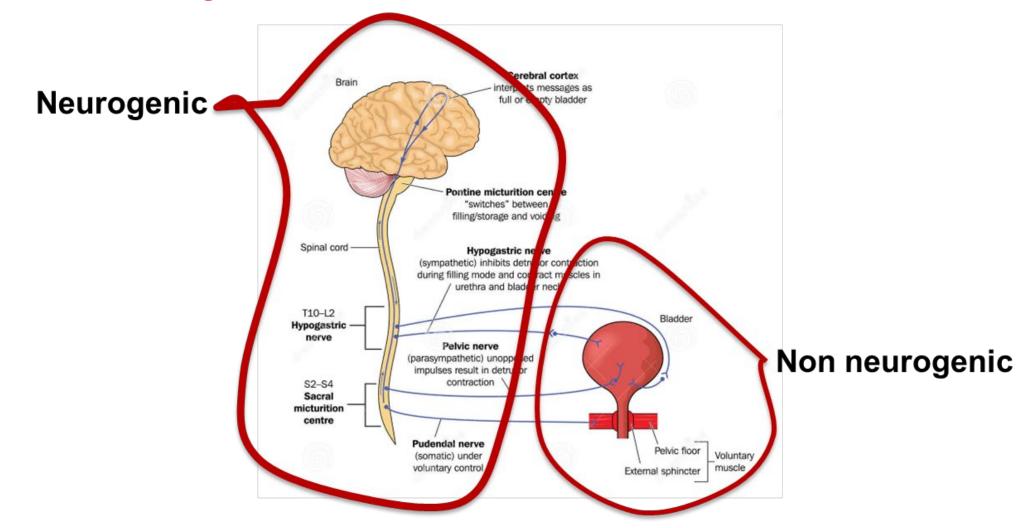


Normal Function





Bladder Dysfunction

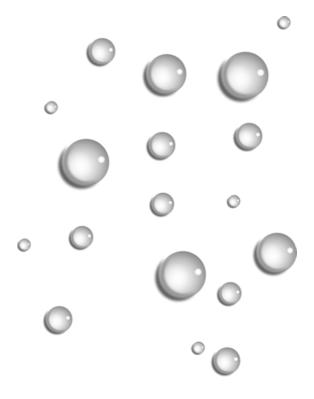






Bladder in MS

- 3-10% in early disease
- 75-80% of patients with MS overall
- symptom severity corelated with progression of MS
- lesion location determines type of symptoms





Types of Bladder Problems

- Can't Pee!
- Pee too much!

Significant impact on quality of life





Concomitant Risks

- Age
- Obesity
- Post-menopausal status
- Bowel dysfunction/chronic constipation
- Women: Pregnancy, vaginal delivery, number of children
- Men: BPH, post-prostatectomy status
- Neurogenic: diabetes, stroke, spinal disease/nerve injury, spinal cord injury



Screening for urinary symptoms?

- At diagnosis
- After a flare
- Left over urine in the bladder after urination (PVR >150 cc)





When to see a Urologist?

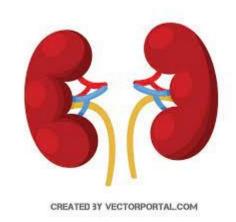
- Recurrent infections
- Not able to empty the bladder
- Worsening symptoms
- Significant bother





Urology: Goals

- Safety
 - Protect kidneys
 - Minimize infections



Quality of life





Patient Scernario:

Meet Lesley





Symptoms

- Frequency, urgency, "turn-key" incontinence, up "all night"
- Uses 4 pads per day
- Significant bother missing meetings, work, accidents
- Fluids: 2 coffee's in the AM, 8 bottles of water, 1 decaf in the PM
- Exam: Normal



Evaluation

- Questionnaires
- Exam
- Post-void residual (bladder scan)
- Urinalysis



Advanced Bladder Testing









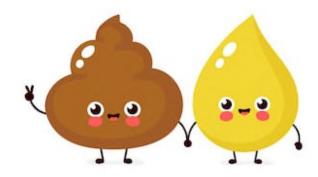
Behavioral Modifications





Behavioral Modifications

- Fluid management
- Scheduled/timed urination
- Constipation management
- The "Knack" maneuver
- Biofeedback with pelvic floor physical therapy





Incontinence Devices





Medications







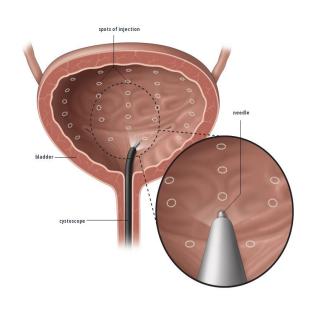






Onabotulinum Toxin A (Botox®)

- FDA approved in 2011 for neurogenic bladder
- Blocks nerve endings in the bladder muscle
 - Decreases spasticity
 - Decreases sensitivity
- Office-based procedure
 - Cystoscopy with injection



Botox® Results

- Lasts about 6-12 months
- Side effects
 - UTI
 - Hematuria
 - Urinary retention (can't pee) about 5-10% depending on dose



PTNS

Posterior Tibial Nerve Stimulation







PTNS

Posterior Tibial Nerve Stimulation

- Randomized trial PTNS vs tolterodine (medication)
 - PTNS 79.5% improvement in GRA vs tolterodine 54.8%
- Double-blind placebo controlled trial
 - 71% PTNS had >50% improvement vs placebo
 - OAB incontinence episodes
- Improvement for MS patients, Stroke, Parkinson's



Sacral Neuromodulation

Interstim (Medtronic), Axonics







Sacral Neuromodulation

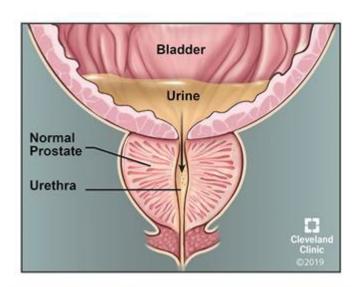
- FDA approval study
 - 60% of refractory OAB patients had >50% improvement
 - Approved for fecal incontinence
- Limitations
 - Battery life average 5 years
 - Rechargeable device is an option
 - Worse in progressive disease





What about difficulty emptying?

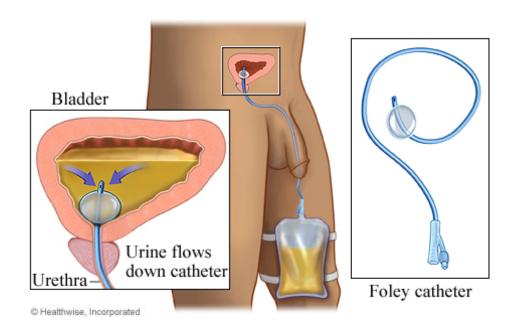
- Weak bladder?
- Enlarged prostate?
- Abnormal urethral sphincter opening?





Difficulty Emptying?







Advanced Disease

- Preventing infections
- Preventing wound complications
- Improving quality of life
 - Indwelling catheters
 - Reconstructive surgery (urinary diversion)



Electronic Tools to Help Navigate Bladder Health







Direct patient to provider communication and feedback



Part of the usual care for neurogenic bladder



Your Pathway to Managing Overactive Bladder Map

Work with your doctor as you follow your path to managing overactive bladder (OAB). There are many strategies and treatment options to help you on your way.





Thank you!

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