

2. Tricyclic antidepressants
3. Correction of any underlying problem if possible
4. Sacral Neuromodulation (Interstim)

Decreased Outlet Resistance (Outlet open when should be closed)

- Stress incontinence
- a) Pelvic relaxation with hypermobility Rx= bladder neck suspension
 - b) Loss of coaptation, elasticity, & suburethral support
(Intrinsic sphincter deficiency)
Rx= pubovaginal sling (suburethral support)
Topical estrogens

EMPTYING PROBLEMS

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Impaired contractions (Detrusor relaxes when it should contract)

1. Neurological
 - Cord lesion at or below reflex center
 - Multiple sclerosis
 - Peripheral neuropathy (diabetes, tabes, PA)
 - Nerve injury (extensive pelvic surgery)
2. Pharmacologic
 - Anticholinergics
 - Drugs with anticholinergic side effects
3. Prolonged overdistension
 - Obstruction
 - Learned voiding dysfunction

Obstruction (Outlet closed when it should be open)

1. Prostate
 - BPH
 - Prostatitis
 - Carcinoma (late)
2. Urethral stricture
3. Pharmacologic
 - Alpha agonists
4. Fecal impaction
5. Neurological
 - Detrusor/sphincter dysynergia (MS, quadriplegia)

Tools available beyond H&P and routine lab

1. Bladder diary I&O, sx associated with voiding, incontinence episodes
2. Flow rate
3. Postvoid residual urine Ultrasound or catheter
4. Cystoscopy
5. Urodynamics
 - Involuntary contractions
 - Incontinence- stress and urgency
 - Leak point pressure- hypermobility vs ISD
 - Voiding pressure
 - Flow rate
 - Postvoid residual (indirectly)

STORAGE PROBLEMS