INTERSTITIAL CYSTITIS

Dara D. Holder MD



Interstitial Cystitis

Definition: Pain, pressure or discomfort perceived to be related to the urinary bladder, associated with lower urinary tract symptoms of more than 6 weeks duration, in the absence of infection or other identifiable causes

Lower urinary tract symptoms (frequency, nocturia, urgency)

- +/- painful bladder filling
- +/- painful urgency

Pain without LUTS -> other sources of Pelvic Pain



IC: Epidemiology

RAND Interstitial Cystitis Epidemiology (RICE) Study

Estimated prevalence

Adult women 2.7% to 6.5%,

Adult male 1.9% and 4.2%

Comorbid conditions:

- Endometriosis
- Irritable bowel syndrome
- Vulvodynia,
- 。SLE
- Fibromyalgia or chronic fatigue syndrome
- Anxiety and pelvic floor dysfunction.

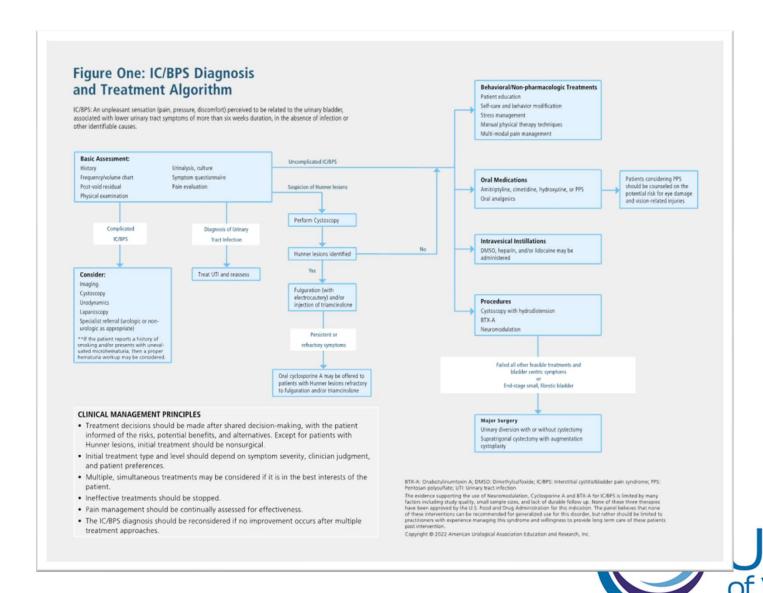


IC: Diagnosis of Exclusion

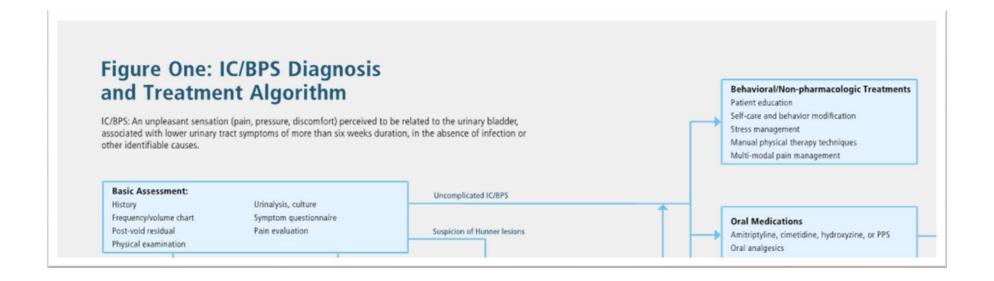
Urinary tract infection	Overactive bladder	Urethral diverticulum	Bladder outlet obstruction
Bladder outlet obstruction	Bladder tumor	Endometriosis	Vulvodynia
Pelvic inflammatory disease	Herpes	Diverticulitis	Genitourinary syndrome of menopause



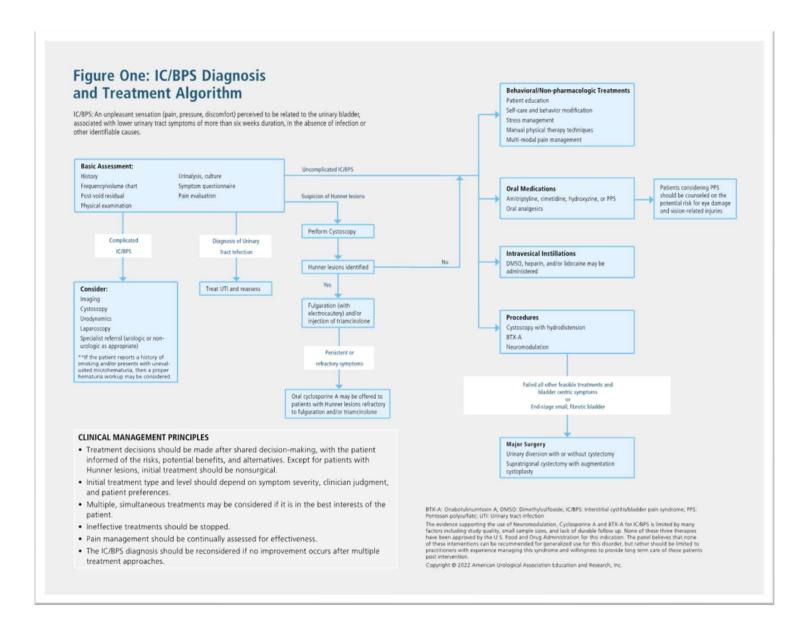
IC: Patient education



IC: Role of Primary Care



IC:



IC: The First Line

Behavioral / non-pharmacological

Self-Care: yoga, acupuncture, meditation

Behavioral therapy: Diet

Stress management and coping strategies

Pelvic floor physical therapy

Appropriate specialist. MPT>> GTM

IC/BPS is a chronic disorder likely requiring continued treatment.

Marked by flares and remission



IC: Second line of Defense

Oral Options include:

Tricyclic antidepressants (amitriptyline, nortriptyline)

Antihistamines (hydroxyzine, cimetidine)

Pentosan polysulfate (Elmiron™) – SE: pigmentary maculopathy

- (1) Detailed ophthalmological history prior to start
- (2) Pre-existing ophthalmological conditions: retinal exam
- (3) Retinal examination within 6 months of start

Cyclosporin A.

Best for pts with Hunner's Ulcers

IC: Third line of Action

6 weekly installations

DMSO

Heparin

Lidocaine/Bupivacine

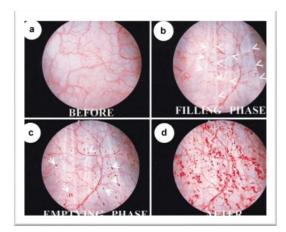
Hyaluronic Acid

Pentosan polysulfate

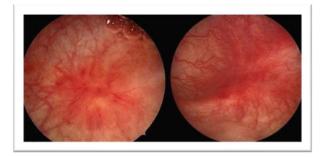
Triamcinolone acetonide

IC: Procedural Options

Cystoscopy with hydrodistension



Cystoscopy with fulguration of Hunner's ulcers

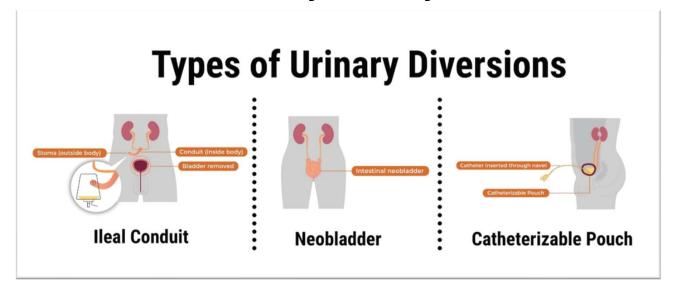


Cystoscopy with onabotulinumtoxin A

Sacral Neuromodulation

IC: The last resort

Urinary diversion with or without cystectomy



Ideal candidate: end-stage, low-capacity bladder with refractory urinary frequency

Poor candidate: non-ulcerative IC/BPS and normal bladder capacities → pain disorder associated with fibromyalgia and irritable bowel disease.