

Post operative voiding dysfunction and the Value of Urodynamics

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- Pathophysiology of post op voiding dysfunction.
- Care pathway for patients affected.
- Short and long term consequences.
- Key elements of Urodynamic testing.



Post op VD

Post vaginal surgery and POP Surgery Post incontinence surgery



Pathophysiology:

- Obstructive
- Inflammatory
- Pharmacological
- Over distension
- Endocrine







Incidence



- Very variable between 2.4-24%.
- Impairment of bladder sensation, alteration of the bladder capacity and compliance, compromised detrusor function, reduction in maximal urethral pressure and closure pressure and decrease inn pressure transmission ratio.
- The extent of surgical dissection proportionate to the possible post op void incidence.

Pharmacological



ED and pain relief medications are the most to blame post op.



Over distension



- Beyond certain volume can cause damage, the persistence of distention can cause ischemia and permanent damage of the bladder muscle.
- Distention beyond 1L can cause permanent damage.

Management: Non-Surgical







Urethrolysis vaginal or abdominal.



icon.

the women's hos

victoria australia

- Bladder neck incision.
- Botox for bladder neck.



Urodynamics

Definition:

"The assessment of the function and dysfunction of the urinary tract".

- The **Role** of Urodynamics:
- a. To Identify all factors that contribute to the LUT symptoms (e.g. Urinary incontinence) and assess their relative importance.
- b. To obtain information about all other aspects of the LUT functions or dysfunction whether or not expressed as a symptom or recognisable as a sign.

Role of Urodynamocs:



- c. To allow a prediction of the possible consequences of LUT dysfunction for the Upper urinary tract.
- d. To allow a prediction of the outcome including undesirable side effects of the contemplated treatment
- e. To confirm the effect of intervention or understand the mode of action of a particular type of Treatment for the LUT dysfunction especially a new and experimental (pre-routine) one
- f. To understand the reasons for failure of previous Rx for urinary incontinence or the LUT dysfunction in general (after unsatisfactory treatment)

When to refer? And "Who" do you refer to?



- Failed conservative Management.
- Pain, Haematuria or recurrent UTIs (>or=3 in 6/12)
- Voiding difficulty.
- Suspected fistula.
- Neuropathic bladder.
- Significant pelvic organ prolapse.
- Uncertain diagnosis.



I'M SORRY

Indications for Urodynamics:



- Failed to respond to empirical treatment.
- 2 Previous continence surgery.
- 3 Prior to definitive continence procedure.
- Prior to prolapse repair accompanying stress incontinence.
- Symptoms suggesting of voiding difficulty.
 - Presence of neurological disease.







Clinical applications of Uds:

- A. Stress urinary incontinence:
- 1. MUCP and severity of SI.
- 2. Choosing the appropriate therapy.
- 3. Prediction of failure of surgery.
- 4. Voiding difficulty after surgery.
- 5. Postoperative Urgency.
- 6. Occult SI.

B. Urgency and UI: Pathophysiology and severity.

Possible adverse events:



🛠 UTI.

- Ureteric catheterization and renal pain.
- Psychological effect and anxiety.





"I don't leave home without it!"



Postpartum Voiding dysfunction

Learning Objectives:

Identify how frequent is postpartum voiding difficulty occurs.Understand some of the pathophysiologies of this

syndrome.

Outline the principles in managing these cases and foresee their potential outcomes.



Estimated incidences range from 0.05% to 37.0%. Similarly, figures varied widely depending on whether studies focused on overt urinary retention (0.2% - 4.9%), covert voiding dysfunction (9.7%–37.0%), persistent urinary retention (0.05%–0.07%) or various combinations of the above.

Pathogenesis and risk factors:



Epidural and regional anaesthesia. Prolonged 1st and or 2nd stage of labour.

Instrumental deliveries.

Primiparity.

Birth weight of >3.8 kg.

Clinical symptoms



small voided volumes. urinary frequency. slow or intermittent stream. urgency, bladder pain or discomfort, urinary incontinence. strain to void, or no sensation to void.



- No patient should be left >6 h without voiding or being catheterized for residual volumes.
- Strict input and output charts should be instituted.
- Timing of voids should be recorded, and voided
- volumes should be measured.
- Timed voiding every 3–4 h in the immediate post-
- partum period.
- Post-void residual volumes should be measured.







