UROGYNAECOLOGY

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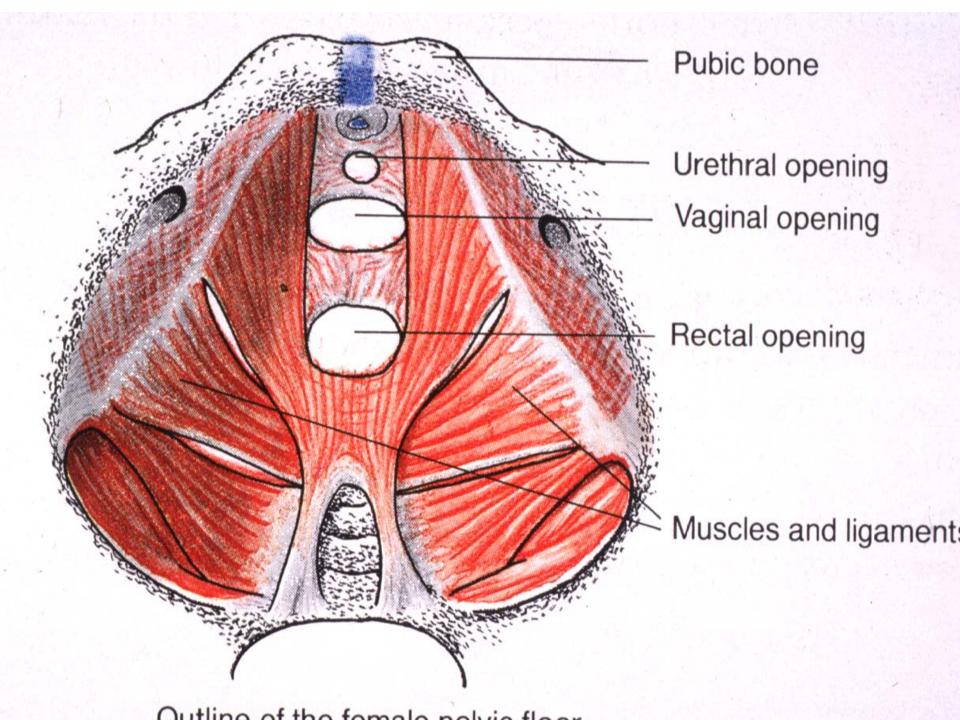
CONSULTANT GYNAECOLOGY

UROGYNAECOLOGY AND LAPAROSCOPIC SURGEON

ROYAL PRINCE ALFRED HOSPITAL MATER HOSPITAL



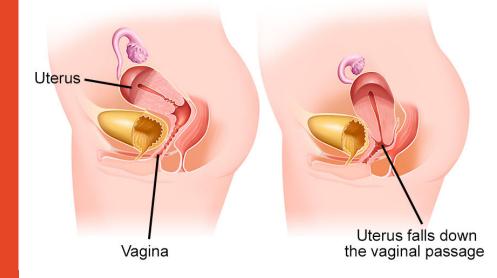




Pelvic Floor Dysfunction

- 1. Lower urinary tract dysfunction
 - -urinary incontinence
 - -voiding dysfunction
- 2. Uterovaginal prolapse
- 3. Rectal prolapse / incontinence





Pelvic Floor Dysfunction

Prevalence

- increases with age
- 30% in community
- 10% significant effect on QOL
- 1 million women in Australia

Burden of Incontinence

- prevalence expected to increase by 110% by 2030
- required expenditure projected to increase by 200% by 2030



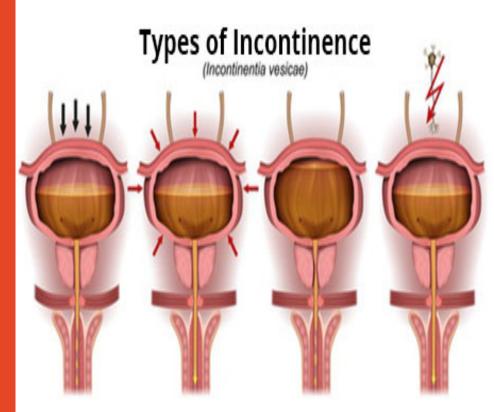




Urinary Incontinence

- Stress urinary Incontinence
- Urinary urgency Incontinence(OAB)
- Overflow incontinence
- Urinary tract fistulae
- Congenital causes : ectopic ureter
- Temporary causes : UTI





Stress Incontinence due to increased abdominal pressure under stress (weak pelvic floor muscles) Urge Incontinence due to involuntary contraction of the bladder muscles Overflow Incontinence due to blockage of the urethra Neurogenic Incontinence due to impaired functioning of the nervous system

Assessment

History

- Urinary leakage with cough, sneeze
- Frequency, urgency, nocturia
- Voiding difficulties
- Bowel problems
- Medications affecting bladder function
- Previous surgery
- Bladder diary





Examination

- 1. General Assessment
- 2. Abdominal Examination:
 Palpable bladder
 Abdominal masses
- 3. Local Ex

Urogenital atrophy
Cough reflex
Pelvic mass
Local excoriation
Neurological: reflexes

4. Speculum examination:

Type of vaginal prolapse
if fistula: urine leak:

Methylene blue dye test





Figure 1: Preoperative POP-Q examination.

Assessment

Types of Prolapse

- Anterior vaginal wall prolapse (cystocele)
- Posterior vaginal wall prolapse
- (rectocele or enterocele)
- Uterine prolapse
- Vault prolapse in case of previous hysterectomy



1-Severe Cystocele



2-Severe Cystocele



3-Cystocele or Fallen Bladder



Assessment

- Mid stream urine
- Review of bladder diary
- Post void residual
- Urodynamics: indications for referral



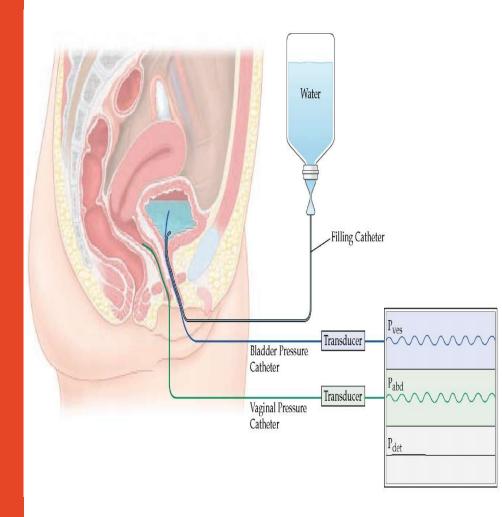
INVESTIGATIONS - EXAMPLE OF FREQUENCY VOLUME CHART

	DAY 1		
	INPUT	OUTPUT	WET
06.00		75	
07.00			
08.00	150	50	
09.00		75	
10.00			
11.00	200	150	W
12.00			
13.00	150	100	W
14.00		75	
15.00			
16.00	150	75	
17.00			
18.00	200	150	W

Urodynamics

- Women with complex symptomatology
- Failure to respond to firstline management
- Prior to surgical intervention

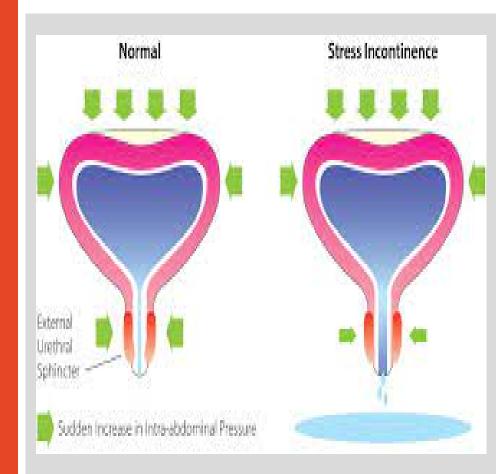




Urinary stress incontinence

- · Commonest cause of female incontinence
- Affects 5-15% of women
- Occur after childbirth
- May respond to conservative management
- Pelvic Floor Exercises (Kegels)
- Incontinence pessary
- Mod-severe USI only cured by surgery



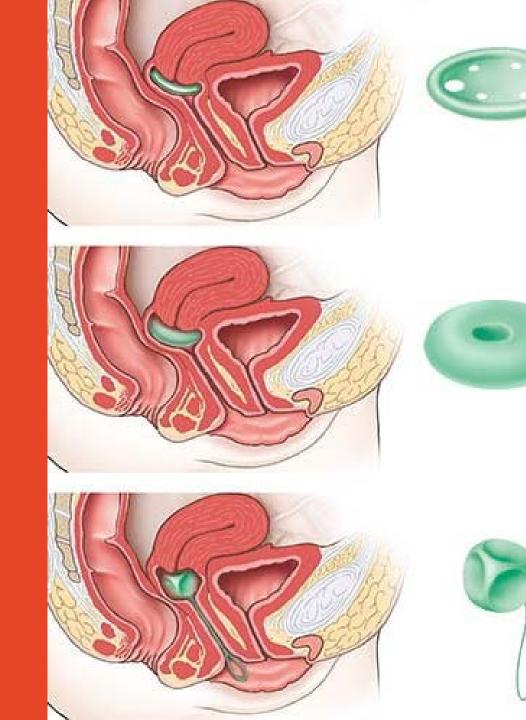


Urinary stress incontinence

CONSERVATIVE MANAGEMENT

- Pelvic floor physiotherapy: PIL
- Tampon with exercise
- Local estrogens
- Cough prevention
- Treat constipation
- Weight management
- Pessaries

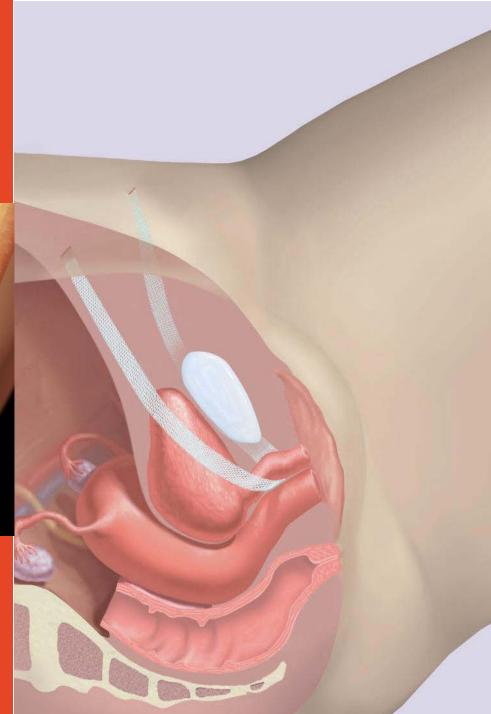




Urinary stress incontinence:
Surgery
Mid-Urethral Slings







Over active bladder

- Spectrum of frequency, urgency, nocturia, urge incontinence
- Can be idiopathic or neurogenic
- Treatment

Bladder training: PIL

Anti -cholinergics

Vaginal estrogens

B3 Agonist: Betmiga

Botulinum Toxin: intravesical

injection of 100-200 units

Minimally invasive treatments PTNS/ TTNS





When to refer?

- Mixed incontinence
- Complex symptomatology as prolapse with incontinence
- Refractory urinary urgency
- Failed trial of PFME/ pessary for stress incontinence
- Hematuria (microscopic or macroscopic)
- Voiding dysfunction with incontinence





Pain or pressure in pelvis, lower back or both

Urinary problems like leaking or constant need to void

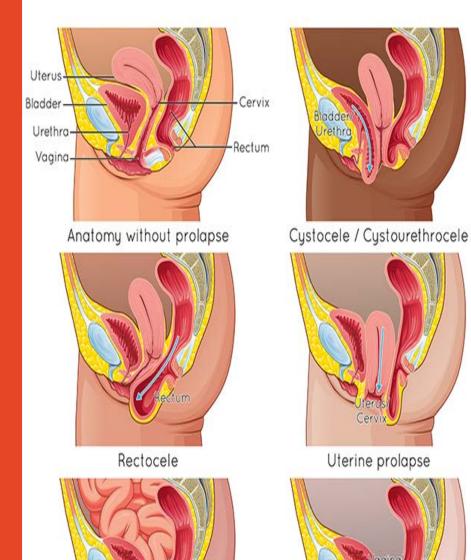
Difficulty emptying bladder or bowel and need to digitate

Vaginal bleeding or spotting from vaginal ulcers

Constipation

Painful intercourse





Enterocele

Vaginal vault prolapse

Conservative management:

- Pelvic floor exercises
- Local estrogens
- Vaginal pessaries
- Avoid constipation and heavy lifting
- Bowel hygiene





When to refer?

- Complex symptomatology with prolapse and incontinence
- Incontinence with voiding dysfunction
- Vaginal bleeding or PMB
- Failed trial of vaginal Pessary
- Stage 3 or 4 prolapse or uterine procidentia

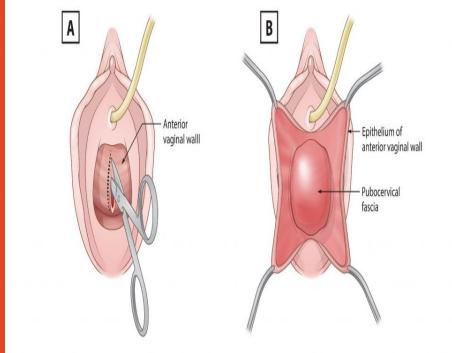


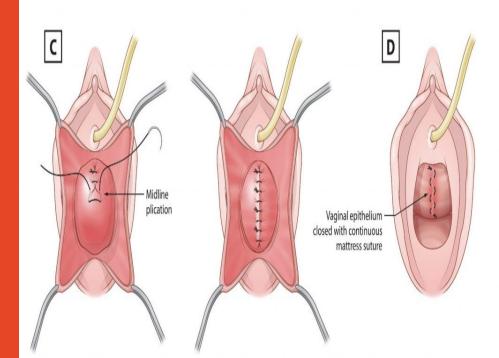


SURGICAL MANAGEMENT: AIM

- -Restoration of the pelvic anatomy to normal
- Restore and maintain bladder and bowel function
- Maintain Coital function
- Correct coexisting pelvic pathology
- Obtain durable results
- Uterine prolapse: vaginal hysterectomy or vaginal hysteropexy
- 2. **2.** Uterine procidentia: need vault suspension procedure
- 3. Cystocele: Anterior vaginal native tissue repair
- 4. Rectocele: Posterior vaginal wall native tissue repair
- 5. Vault prolapse: Vault suspension procedure either vaginally or laparoscopically







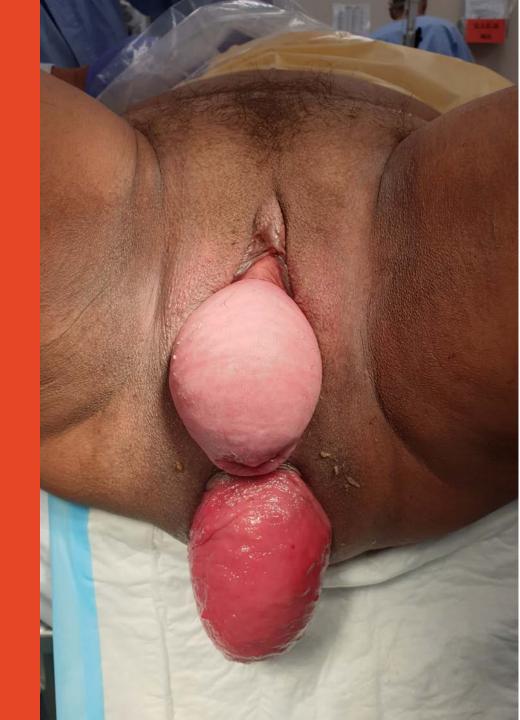
Vault suspension procedure

Case 1.

51 years old P3L3

- Severe uterine procidentia for many years
- Frequency 9 and urgency
- Recurrent UTI
- Denies stress incontinence
- Vaginal bleeding with vaginal ulcers
- Rectal prolapse (referred to colorectal unit)
- Sexually active
- Med Hx: significant alcoholic liver disease with coagulopathy(liver specialist) with multiple abdominal varices





Vault suspension procedure

Pre operative workup

- Urogynaecological workup
- Pelvic ultrasound for endometrial thickness and assessment of pelvic varices
- Urodynamics for occult stress incontinence
- Estrogen pack nightly for 3 weeks prior to surgery
- Ongoing liver specialist review to optimise coagulation status
- Ultrasound kidneys for retrograde hydronephrosis
- Management of ongoing urgency and urge incontinence
- Treatment of any UTI
- Surgical options discussed :VH +AP native tissue repair with SSF





Vault suspension procedure

Pre operative



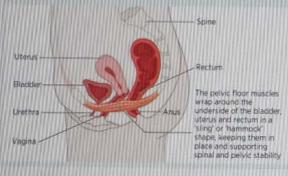




Summary-

Pelvic Floor Exercises are the mainstay of conservative treatment for stress incontinence, but they must be performed consistently, with interest and determination, for a period of several months for benefit. Accurate diagnosis of stress incontinence is essential, using urodynamic techniques, and failing success of conservative treatment, repair surgery may be necessary.

Fig 1. General anatomy of the female pelvic floor (side view)



For Appointments and enquiries-

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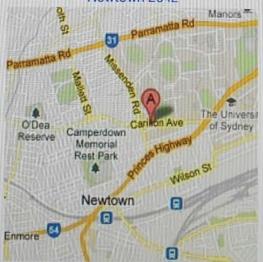
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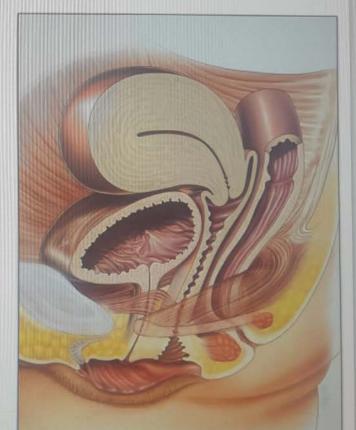
Your guide to

understanding

PELVIC FLOOR EXERCISES

Dr Harpreet Arora
 MBBS. MD. FRANZCOG.

-Gynaecology, Urogynaecology and Laparoscopic surgeon-



UROGYNAECOLOGY

Thank You



