

Assessment Of The Older Patient with Incontinence.

Frankie Bates

Urinary Incontinence (UI):

UI Is the involuntary loss of urine sufficient to be a problem

Prevalence:

- * Affects 4 million globally
- * Affects 3.3 million Canadians
- * Costs an estimated \$2.6 billion/year
- * Direct cost \$1 billion
- * Indirect costs \$1.6 billion

(International Continence Society)
(The Canadian Continence Foundation)



Impact on older adults

Morbidity:

- Sleep deprivation, falls, sexual dysfunction
 - Depression, social withdrawal
 - UTI's Cellulitis, pressure ulcers
-
- Is the most common reason for transfer of older patient's from acute care to long term care rather than discharge home.

(Kurlowicz, Clinical Guidelines 2002)

(Midthun SJ Urologic Nursing 2004)

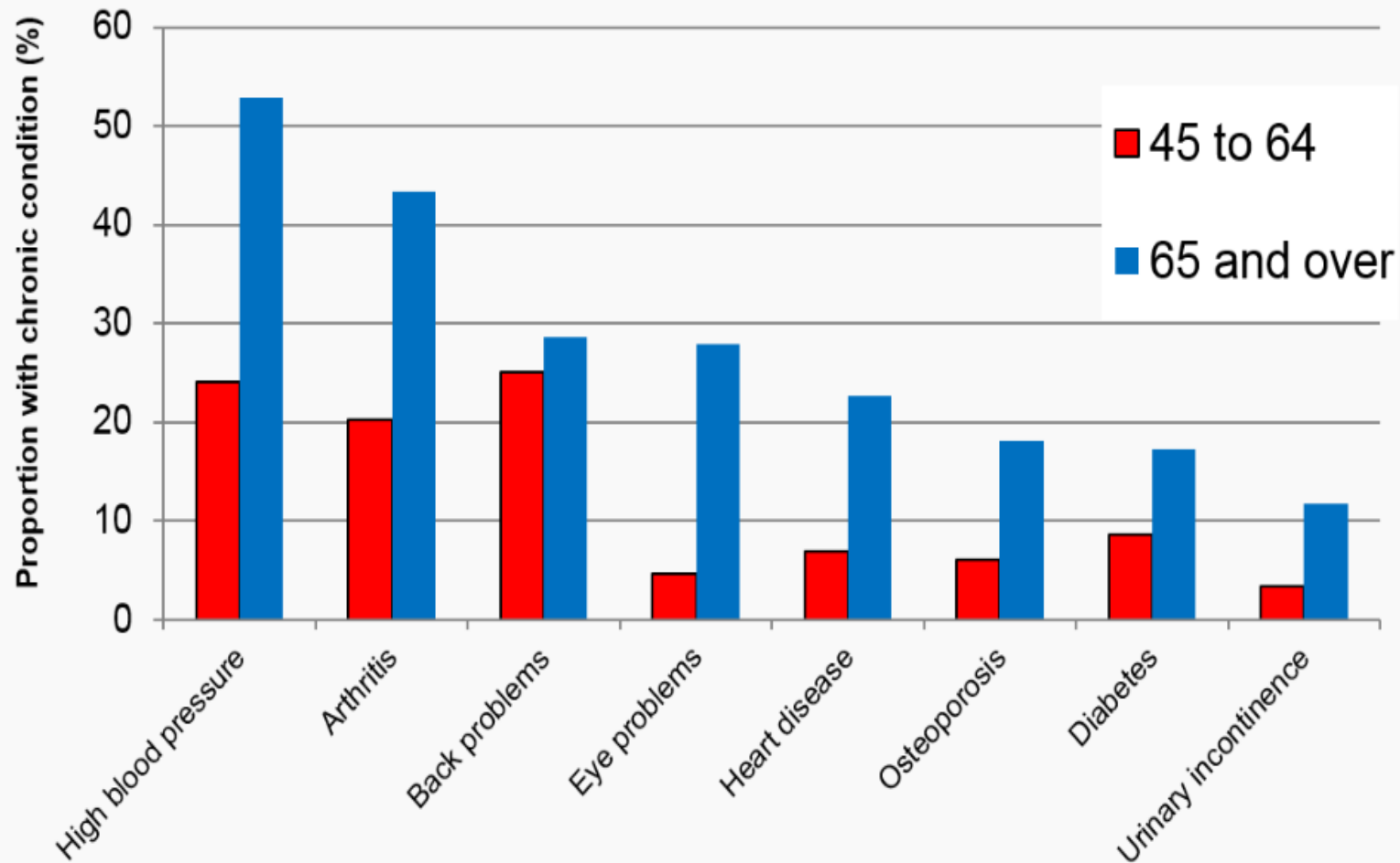
(Grebling 2005) (Karram Siddiighi 2008)



Chronic conditions

Eight chronic conditions are prevalent in more than 10% of the population aged 65 and over

Proportion of individuals 45 years of age and over with selected chronic conditions, Canada, 2008/2009



Prevalence Of Any UI in Women By Age Group

V.A. Minassian et al. / *International Journal of Gynecology and Obstetrics* 82 (2003) 327–338

331

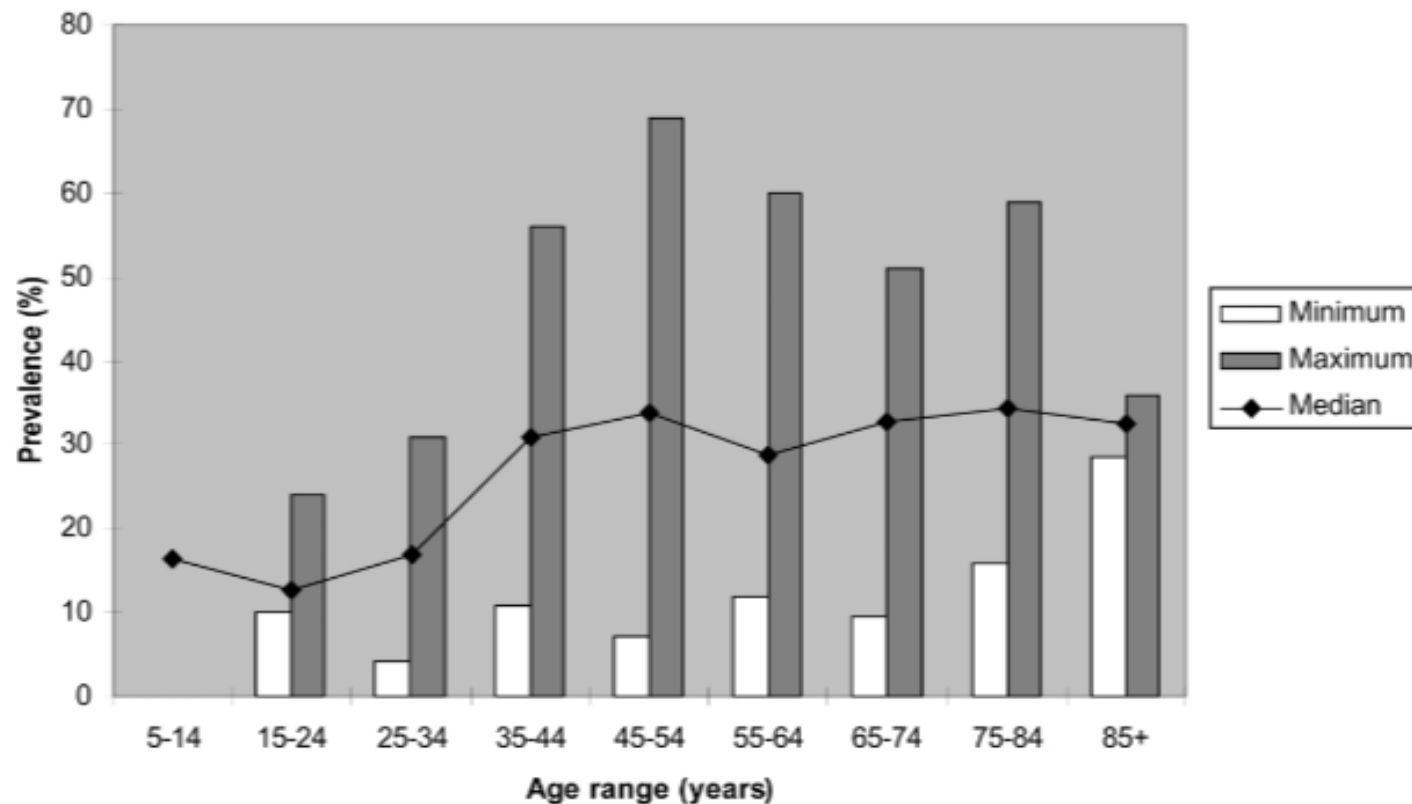


Fig. 1. Prevalence of any UI in women by age group (data from 13 studies).

Assessment is Vital !

- * A working knowledge of the diagnosis and treatment of the various types of urinary incontinence is fundamental to the care of patients.
- * History (Can be subjective, helps elicit most likely diagnosis)
- * Use listening skills, show empathy and understanding
- * Try to measure the degree of bother
- * (Qualitative Problem , not a Quantitative problem)
- * U/A and culture ONLY if patient is symptomatic

Martin JL; Williams KS et al. 2006. Krhut J; Zachoval R; et al 2014. Avery K; Donovan J; Culligan PJ et al Am Fam Physician. 2000 Dec 1;62(11):2433-2444.

Abrams et al ICIQ 2004. Kobwitaya K; Bunyavejchevin S; et al 2015. Ryhammer AM Djurhuus JC et al. 1999. Wagner TH; Patrick DL et al 1996, ICI 2015

Never Assume!



Age related changes that may predispose older persons to UI:

- * Detrusor over activity
- * Benign Prostatic Hyperplasia (BPH)
- * Atrophic vaginitis and urethritis
- * Decreased ability to postpone voiding
- * Decreased total bladder capacity
- * Decreased detrusor contractility
- * Increased post void residual

(Nordling 2002)

(Madersbacher et al 1998)

(Lovatsis , Drutz 1998)



Requirements of Continence

- * Aware of urge to void (dementia..)
- * Able to get to the bathroom (restraints..)
- * Able to suppress the urge until you reach the bathroom
- * Able to void when you get there – sympathetic/parasympathetic
- * Dexterity (stroke; zippers; hip protectors...)
- * Motivation to stay dry

- * Resnick NM et al Nuer/ Urodyn 1995
- * Incont frail Eld pers. ICI 6th Edition 2016
- * Pfisterer MH et al. J Am Ger Soc 2006

Assessment

- * **Validated Tools (ICIQ, Kings Health, The Questionnaire for female Urinary Incontinence Diagnosis (QUID)etc.**
 - * Post void residual
 - * Bladder diary 3 to 5 days
 - * Pad usage, type and amount
 - * Hx and Physical (includes pelvic exam)
 - * Bowel History (Frequency and Type)
 - * Fluid intake (Type and Amount)
 - * Functional ability
 - * Med/ Surg / Obstet Hx
-
- * Stothers L Freidman Curr Urol Rep 2011
 - * Wyman JF Am J Nurs 2003
 - * Incont 6th Ed ICI 2016
 - * Goode PS et al Incont Old Women JAMA 2010



Initial number

ICIQ-FLUTS 08/04

CONFIDENTIAL

DAY

MONTH

YEAR

Today's date

Urinary symptoms

Many people experience urinary symptoms some of the time. We are trying to find out how many people experience urinary symptoms, and how much they bother them. We would be grateful if you could answer the following questions, thinking about how you have been, on average, over the PAST FOUR WEEKS.

1. Please write in your date of birth:

DAY

MONTH

YEAR

2a. During the night, how many times do you have to get up to urinate, on average?

none 0

one 1

two 2

three 3

four or more 4

2b. How much does this bother you?








Please ring a number between 0 (not at all) and 10 (a great deal)

0 1 2 3 4 5 6 7 8 9 10
not at all a great deal

3a. Do you have a sudden need to rush to the toilet to urinate?

Evaluation of Bowel Function

Bristol Stool Chart

Type 1		Separate hard lumps, like nuts (hard to pass)
Type 2		Sausage-shaped but lumpy
Type 3		Like a sausage but with cracks on its surface
Type 4		Like a sausage or snake, smooth and soft
Type 5		Soft blobs with clear-cut edges (passed easily)
Type 6		Fluffy pieces with ragged edges, a mushy stool
Type 7		Watery, no solid pieces. Entirely Liquid

TWO WEEK BOWEL CHART

Please fill in the chart every day using the numbers from the Bristol Stool Scale chart for the type of stool (bowel movement). If no stool is passed then just leave the chart empty for that day.

	Type & amount of stool (i.e. large, med., small)	Type & amount of stool (i.e. large, med., small)	Type & amount of stool (i.e. large, med., small)
MONDAY			
TUESDAY			
WEDNESDAY			
THURSDAY			
FRIDAY			
SATURDAY			
SUNDAY			
MONDAY			
TUESDAY			
WEDNESDAY			
THURSDAY			
FRIDAY			
SATURDAY			
SUNDAY			

Bristol Stool Scale:

The seven types of stool are:

- Type 1: Separate hard lumps, like nuts (hard to pass)
- Type 2: Sausage-shaped, but lumpy
- Type 3: Like a sausage but with cracks on its surface
- Type 4: Like a sausage or snake, smooth and soft
- Type 5: Soft blobs with clear cut edges (passed easily)
- Type 6: Fluffy pieces with ragged edges, a mushy stool
- Type 7: Watery, no solid pieces. Entirely liquid

Assessment Continued

- * Post void residual
- * Bladder diary 3 to 5 days
- * Pad usage, type and amount
- * Hx and Physical (includes pelvic exam)
- * Bowel History (Frequency and Type)
- * Fluid intake (Type and Amount)
- * Functional ability
- * Med/ Surg / Obstet Hx

Stothers L Freidman Curr Urol Rep 2011

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Incont 6th Ed ICI 2016

Goode PS et al Incont Old Women JAMA 2010



Identify Contributing Factors

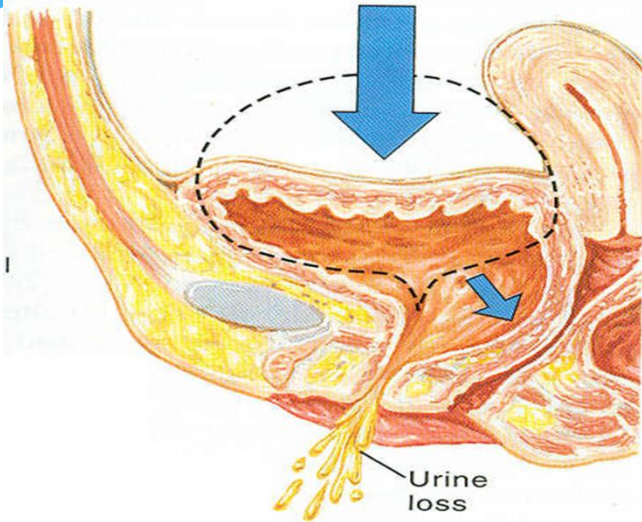
- * Mobility issues
- * Reduced cognitive awareness
- * Constipation
- * Fluid Intake; Caffeine intake
- * Excessive weight : (UI 26% less likely if slim and active)
- * Smoking (chronic cough)
- * Previous Pregnancies, deliveries
- * Underlying medical issues/medications
- * Recurrent UTI
- * Environmental barriers

Voiding History

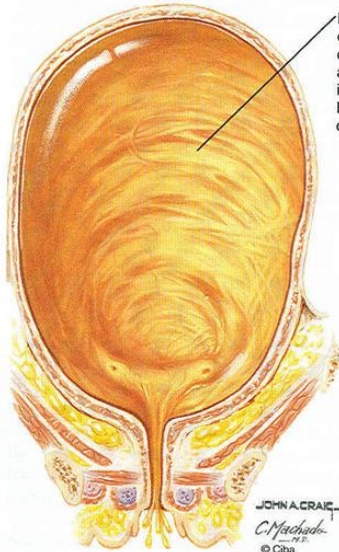
- * Weak Urinary Stream
- * Intermittent Stream (Staccato flow)
- * Straining to void
- * Feeling of incomplete emptying
- * Prolonged void
- * Post void dribble
- * Hesitancy
- * Spraying
- * Sit to void vs Hover ?



Increased intraabdominal pressure



Other types of incontinence



Neurogenic loss of detrusor function causes emptying phase abnormality, resulting in overflow incontinence. Bladder empties when capacity exceeded.

THE PROSTATE GLAND

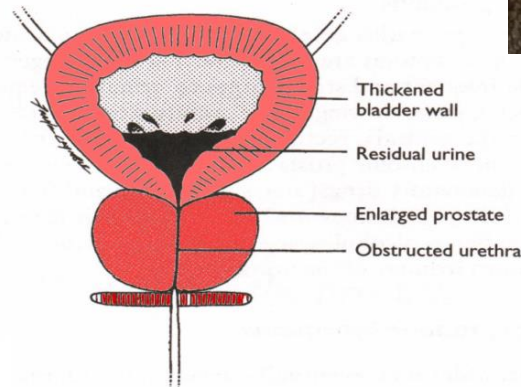
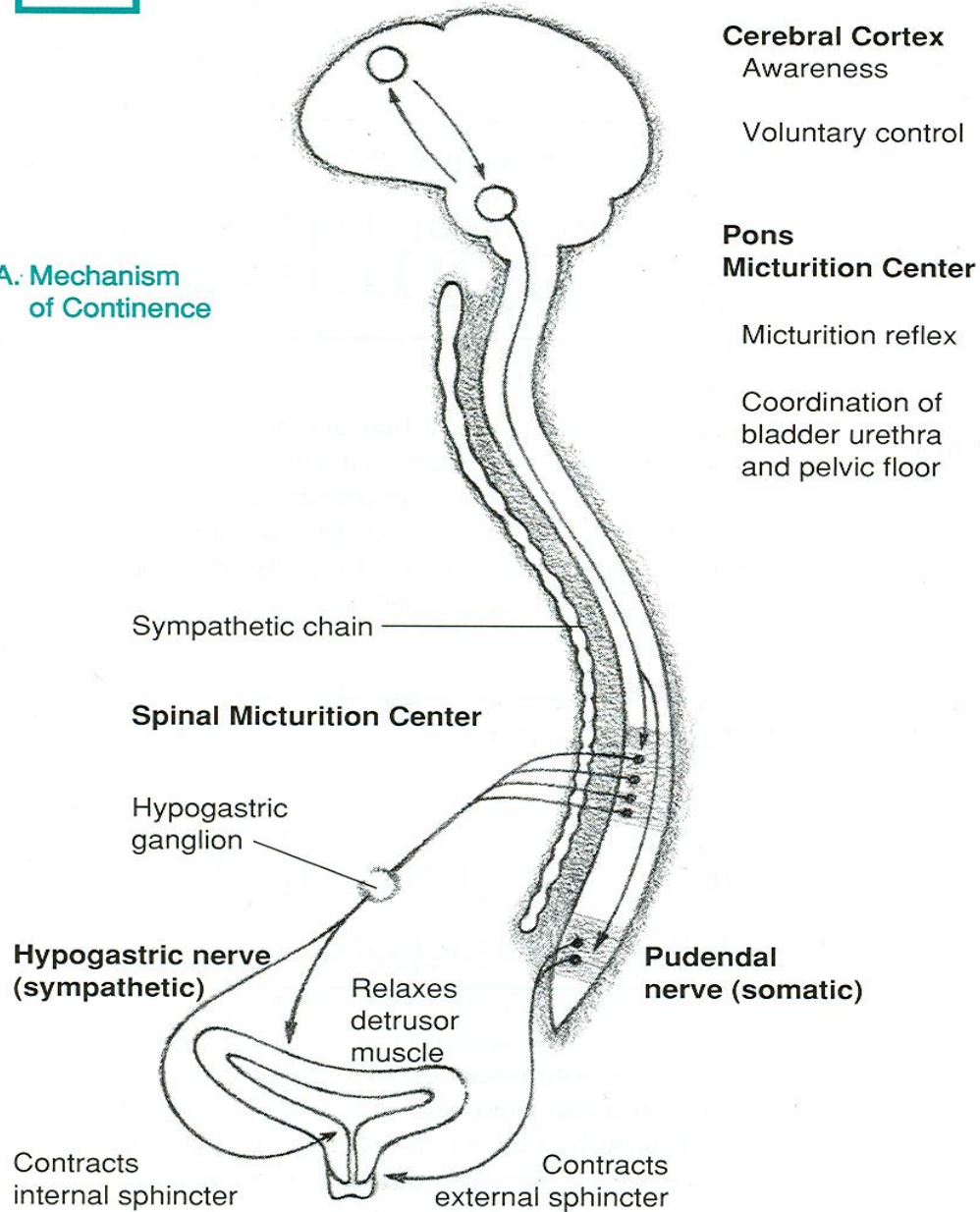


FIGURE
3.4

A. Mechanism of Continnence
B. Mechanism of Micturition

A. Mechanism
of Continnence



Cerebral Cortex
Awareness

Voluntary control

Pons
Micturition Center

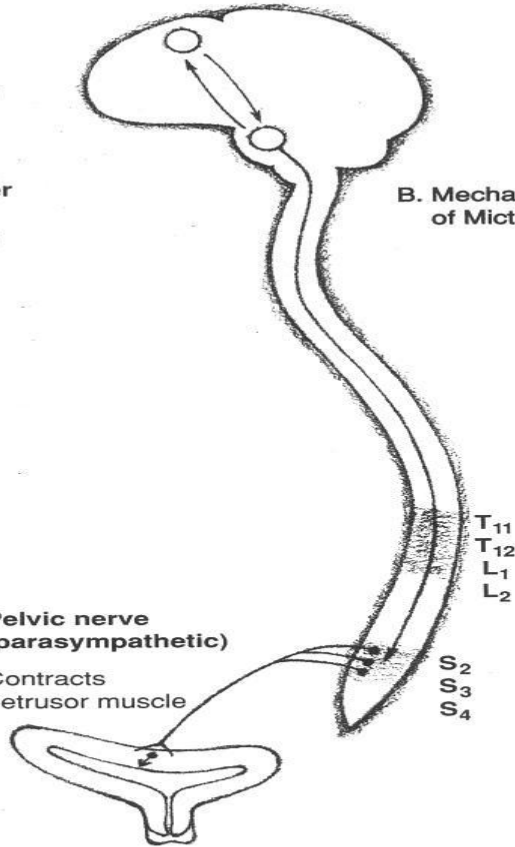
Micturition reflex

Coordination of
bladder urethra
and pelvic floor

Pelvic nerve
(parasympathetic)

Contracts
detrusor muscle

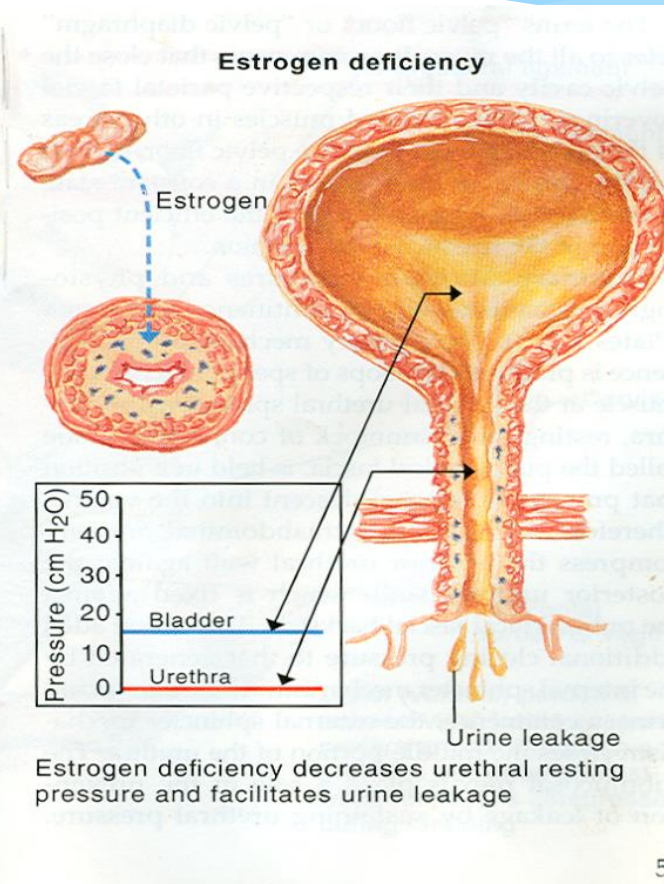
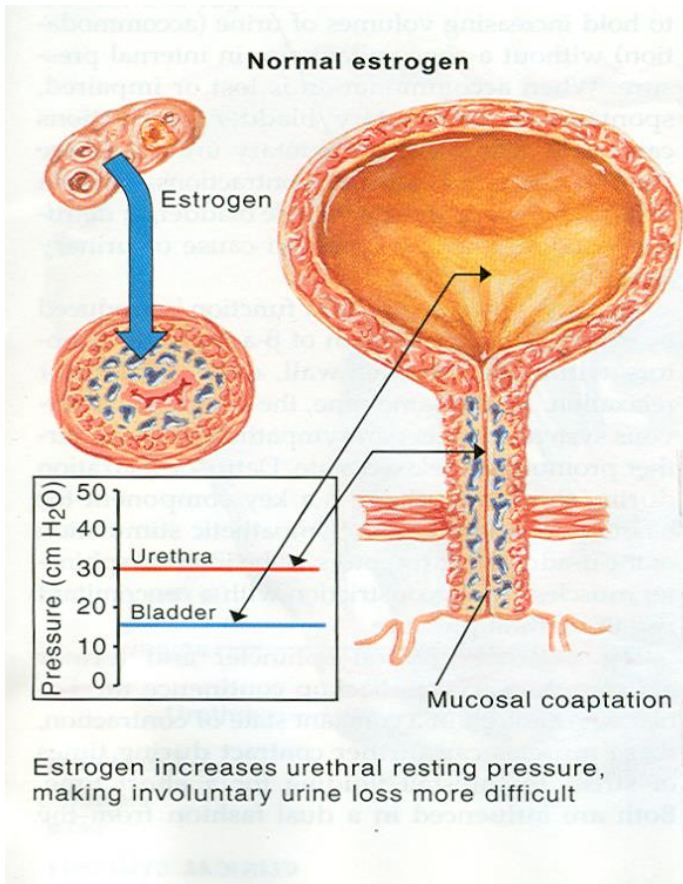
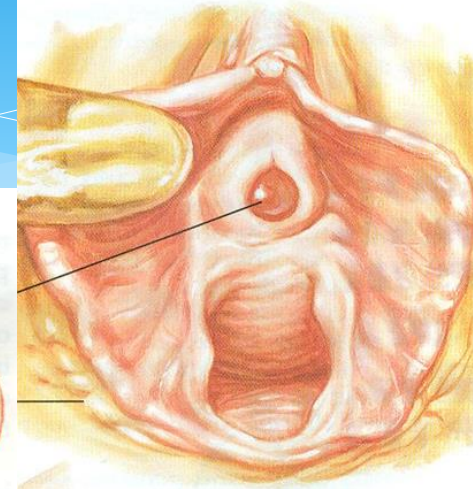
**B. Mechanism
of Micturition**



Assess for Atrophy

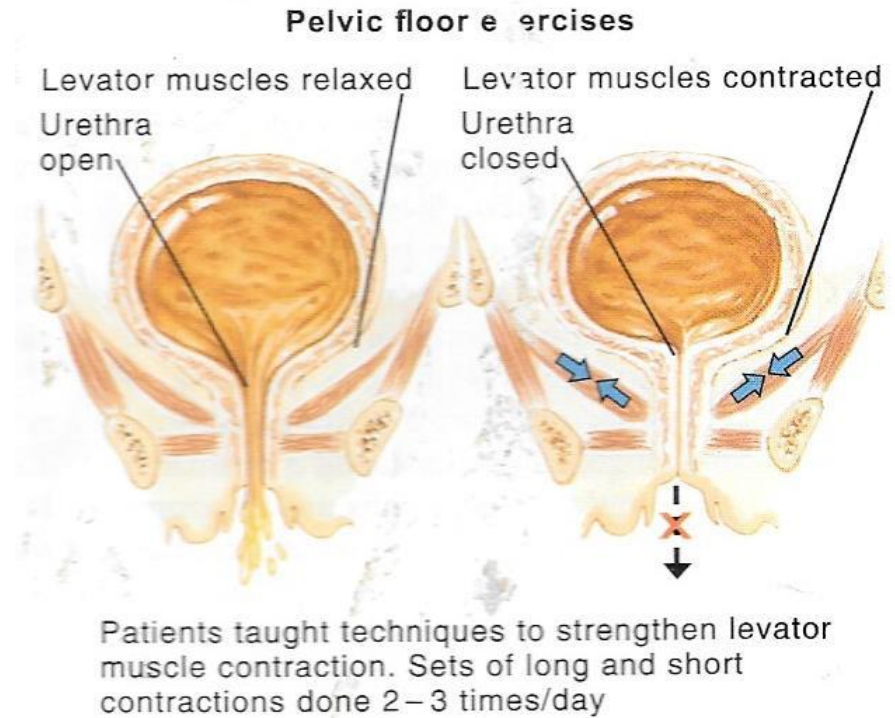
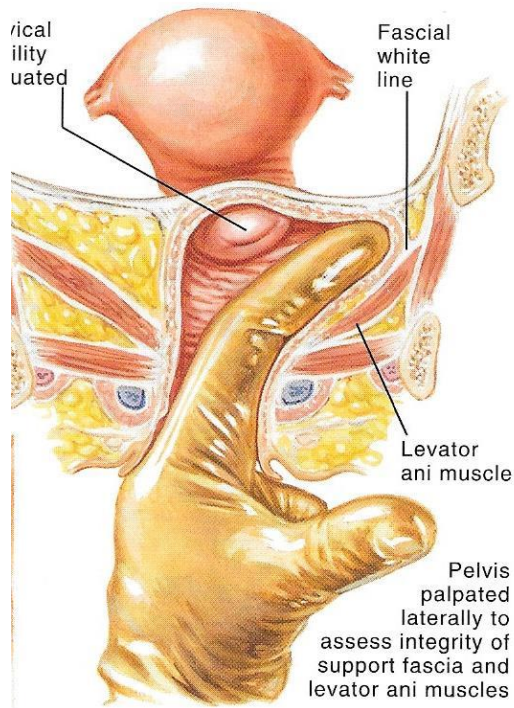
Permission Clinical Symposia 1996
Cochrane Review. Cody et al 2012
Jiang et al 2016 Rahn DD et el. Int Urogyn J 2015
Cody JD et el Cochrane Review 2009
JOGC Vol 36; 9 @014

Signs of estrogen deficiency



Assessing the Pelvic Floor Muscle

Domoulin C et al . ICI 6th Edition 2016
Nappi et al Revive 2016



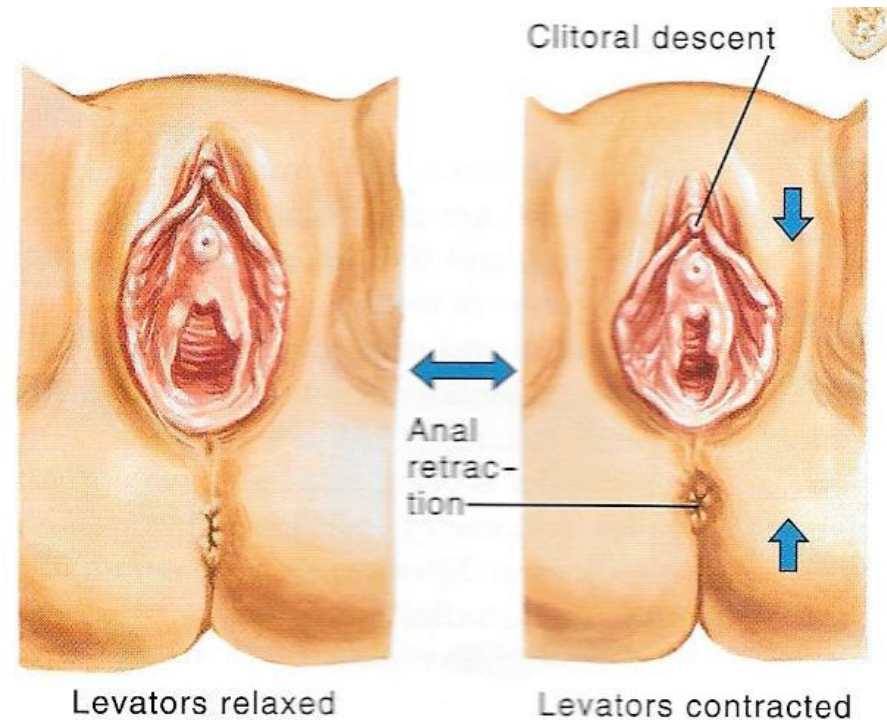
Assessing the Pelvic Floor

Laycock J Clin Eval PF Springer. ICI 2016

Bo K, Sherburn M. Kegel AH J Obstet Gyn 1948 Bates F Urol NurJ 2003

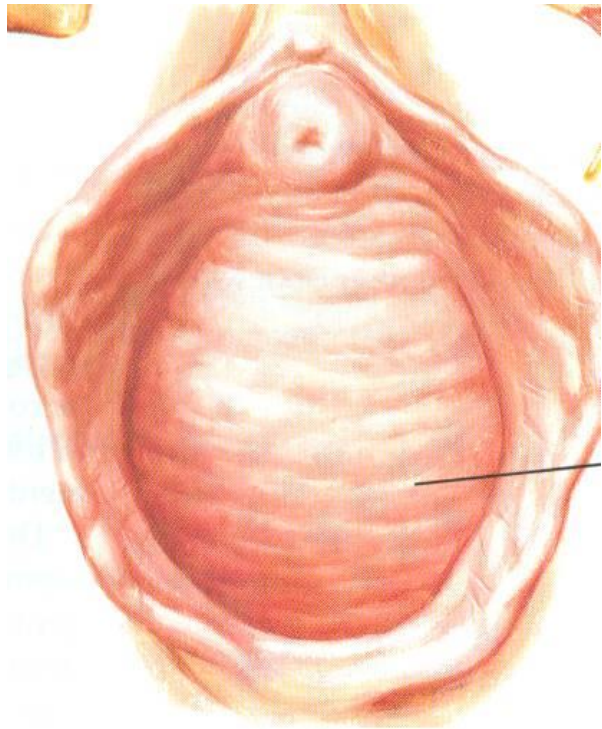
DEGREE OF FORCE	MODIFIED OXFORD SCALE
0	Lack of muscle response
1	Flicker of non-sustained contraction
2	Presence of low intensity, but sustained, contraction
3	Moderate contraction, felt like an increase in intravaginal pressure, which compresses the fingers of the examiner with small cranial elevation of the vaginal wall
4	Satisfactory contraction, compressing the fingers of the examiner with elevation of the vaginal wall towards the pubic symphysis
5	Strong contraction, firm compression of the examiner's fingers with positive movement towards the pubic symphysis.

FIGURE 1 - Scale of pelvic floor muscle strength^{3,9}

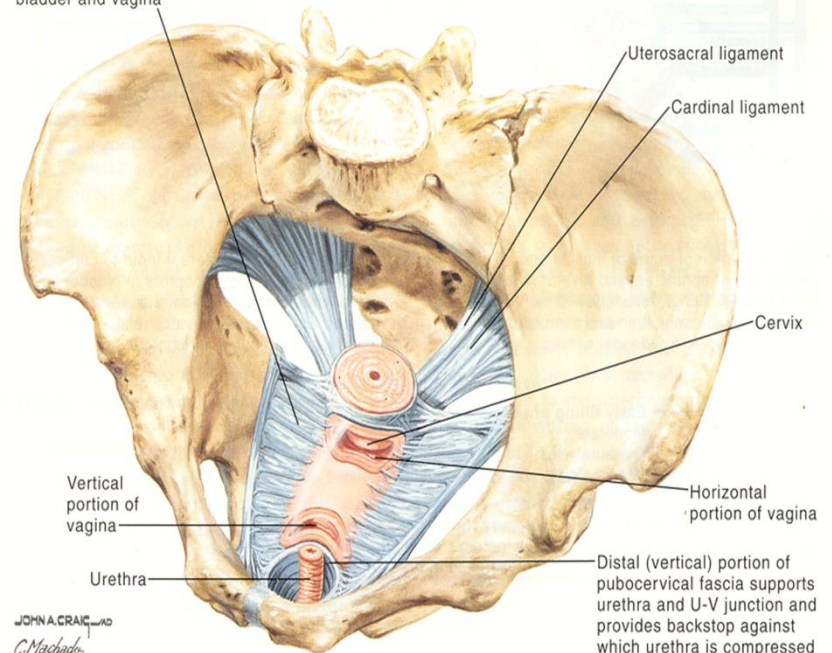


Cystocele Grade 3

Permission Clinical Symposia 1996



Horizontal portion of pubocervical fascia supports bladder and vagina



JOHN A. CRAIG, M.D.
C. Machado
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Distal (vertical) portion of pubocervical fascia supports urethra and U-V junction and provides backstop against which urethra is compressed during straining

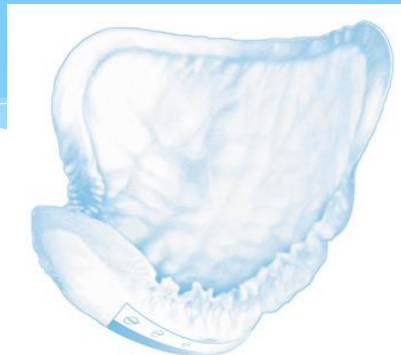
Assessing Degree of Leaking. Which Product, Freq of Change, etc.

Groutz A, Blavais JG et al. J Urol 2000

Krhut J Zachhoval R et al Neurourol Urodyn 2014

Incont frail older pt 6th Ed ICI 2016

Du Moulin et al. 2009



Diseases & Disorders Associated with UI

- * **Stroke**
- * **Delirium**
- * **Dementia**
- * **MS**
- * **Parkinson's Disease**
- * **Spinal Cord Injury**
- * **Diabetes**
- * **Anxiety disorders**
- * **Depression**
- * **Alcoholism**
- * **Psychosis**
- * **RA**
- * **CHF**
- * **COPD**
- * **Constipation**

You can make the Difference!

Ask your patients if they have symptoms of UI

Let them know it is not a natural consequence of childbirth or a normal part of ageing

Refer on to a specialist if you are not comfortable with full assessment techniques

Let them know they are not alone and that is always a manageable and treatable condition

Questions / Discussion

