

W29 + Networking Lunch (11-12): ICS Core Curriculum (Free): Continence Care Nursing

Workshop Chair: Sandra Engberg, United States 14 September 2017 09:00 - 12:00

Start	End	Торіс	Speakers
09:00	09:15	Managing Bladder Dysfunction Following a Stroke	Jo Booth
09:15	09:30	Pharmacological Management of OAB: Nursing Implications	Alison Bardsley
09:30	09:45	Health Literacy about Incontinence	Donna Bliss
09:45	10:00	Management of Incontinence in Frail Community-Dwelling	Sandra Engberg
		Elders	
10:00	10:15	Management of Post-Prostatectomy Incontinence	Stefano Terzoni
10:15	10:30	Discussion/Questions	All
10:30	11:00	Break	None
11:00	12:00	Lunch	All

Speaker Powerpoint Slides

Please note that where authorised by the speaker all PowerPoint slides presented at the workshop will be made available after the meeting via the ICS website www.ics.org/2017/programme Please do not film or photograph the slides during the workshop as this is distracting for the speakers.

Aims of Workshop

This workshop will focus on the assessment and conservative management of incontinence in specific patient populations including frail, community-dwelling elders, individuals who have had a stroke, and persons with OAB. ICI-6 recommendations relative to these patient populations will be addressed. Incontinence-specific health literacy needs of informal caregivers of individuals with incontinence will be discussed.

Learning Objectives

1. Discuss the assessment and evidence-based management of urinary incontinence in frail, community-dwelling older adults and individuals who have had a stroke.

2. Discuss nursing implications relative to pharmacological therapy in the management of patients with OAB.

3. Discuss recent research findings relative to continence health literacy.

4. Discuss the use of pelvic floor muscle exercise and electric stimulation in a the management of post-prostatectomy incontinence.

Learning Outcomes

After this course, participants will be able to:

1. Apply the knowledge gained in care of individuals with incontinence.

2. Address the incontinence-related health literacy needs of informal caregivers of individuals with incontinence.

3. Inform or educate colleagues about the most recent evidence-based approaches to managing incontinence in the patient groups discussed.

Target Audience

Nurses and members of other health care disciplines who collaborate with nurses in research and practice

Advanced/Basic

Basic

Suggested Reading

Booth J, Kumlien S, Zang Y, Gustafsson B, Tolson D. Rehabilitation nurses practices in relation to urinary incontinence following stroke: a cross-cultural comparison. Journal of Clinical Nursing 2009; 18 (7), 1049-1058.

French B, Thomas L, Harrison J, Burton C, Forshaw D, Booth J, Britt D, Cheater F, Roe B, Watkins C. Implementing a Systematic Voiding Programme for Patients with Urinary Incontinence After Stroke. Qualitative Health Research. Qual Health Res, 1049732316630975, first published on March 1, 2016.

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Mullins J, Bliss DZ, Rolnick S, Henre CA, Jackson J. Barriers to Communication With a Healthcare Provider and Health Literacy About Incontinence Among Informal Caregivers of Individuals With Dementia. J Wound Ostomy Continence Nurs. 2016;43(5):539-44. PubMed PMID: 27607750; PubMed Central PMCID: PMC5017302.

Bliss D, Rolnick C, Jackson J, Arntson C, Mullins J, Hepburn K. Health literacy needs related to incontinence and skin damage among family and friend caregivers of individuals with dementia. J Wound Ostomy Continence Nurs. 2013;40(5):515-23. PubMed PMID: 24448620; PubMed Central PMCID: PMC3900878.

Engberg, S., Sereika, SM. (2016). Effectiveness of pelvic floor muscle training for urinary incontinence: Comparison within and between nonhomebound and homebound older adults. Journal of Wound, Ostomy and Continence Nursing; 43(3): 291-300.

Stenzelius, K., Molander, U., Odeberg, J., Hammarström, M., Franzen, K., Midlöv, P., ... Andersson, G. (2015). The effect of conservative treatment of urinary incontinence among older and frail older people: A systematic review. Age and Ageing, 44(5), 736–744.

Lucas G, Bosch RJL, Burkhard FC, Cruz F, Madden TB, Nambiar AK et al. EAU Guidelines on assessment and nonsurgical management of urinary incontinence. European Urology 2012; 62:1130-42. Updated 2016, available as a whole guidelines package from http://uroweb.org/guideline/urinary-incontinence/, retrieved February 21, 2017.

Terzoni S, Montanari E, Mora C, Ricci C, Destrebecq A. Developing a rehabilitation programme for male urinary incontinence: detailed schemes and results on 122 patients. International Journal of Urological Nursing 2015: 9(3):149-155.

Terzoni S, Montanari E, Mora C, Ricci C, Destrebecq A. Electrical stimulation for post-prostatectomy urinary incontinence: is it possible when patients cannot learn muscular exercises? International Journal of Urological Nursing 2015; 9(1):29-35.

Managing Bladder Dysfunction Following a Stroke

Presenter: Jo Booth, Nursing, UK:

Urinary incontinence is common following a stroke with prevalence rates of 32% to 79% on admission to the hospital. While the prevalence decreases following hospital discharge, many patients continue to experience UI. UI is known to have a considerable negative impact on stroke survivors. This presentation will outline types of bladder dysfunction commonly experienced at different points in the trajectory following stroke and the impact on individuals and their families. Nursing management of stroke-related bladder dysfunction will be discussed, with particular focus on the hyperacute/acute and rehabilitation phases and supporting stroke survivors to self-manage ongoing bladder dysfunction.

Pharmacological Management of OAB: Nursing Implications

Presenter: Alison Bardsley, Nursing, UK:

In a review by Irwin et al (2011), an estimated 10.7% of the 2008 worldwide population (4.3billion) were affected by Overactive Bladder (OAB), with this expected to increase to 20.1% (546 million) by 2018. Nurses are often the first contact for patients with OAB and therefore play a pivotal role in assessment, diagnosis and treatment pathways. Behavioural therapies to improve symptoms are recommended as first-line therapy for all patients with OAB. However studies indicate that complete resolution of OAB symptoms with behavioural therapy alone is minimal.

Guidelines recommend second-line therapy with oral antimuscarinic agents for patients whose symptoms are not adequately managed with behavioural modification alone. A combined approach that includes behavioural therapy and pharmacologic intervention is considered the most efficacious option in terms of patient satisfaction, perceived improvement, and reduction in bladder symptoms. Second line pharmacological options from other therapeutic classes—mirabegron, a beta-3 adrenoreceptor (beta-3 AR) agonist and botulinum toxin A, a neurotoxin are also approved for the treatment of patients with OAB and nurses need to consider when these may be appropriate for patients who are not responding to oral antimuscarinic therapy. Many nurses will provide advice on, or prescribe medication to manage OAB and provide a role in supporting and educating patients. Since there are a number of pharmacological options now available, it is important that nurses understand the pharmacological action of the different medications and how they can be utilised for individual patients to gain optimum effectiveness.

This session will provide an overview of the role of pharmacology in the management of OAB, taking into account the current international guidelines for prescribing in OAB. The nurse's role in medications management for this group of patients will be discussed.

Health Literacy about Incontinence

Donna Bliss, Nursing, US:

Health literacy is the ability of an individual to obtain and understand information about their health condition or problem and the services they may need tin order to communicate with others and make appropriate decisions about care that they desire. General health literacy is low in the population in the US and other countries with certain groups (e.g., elderly, low income, and minority racial and ethnic groups) affected more than others. There are negative consequences to low health literacy for the individual and health care system. The under-reporting of incontinence is well-known and may be influenced by low health literacy.

This session will examine recent research about incontinence health literacy. Although health literacy has traditionally been focused on individual patients, there is growing recognition that health literary among informal caregivers is vital. Family and friend caregivers of individuals with cognitive deficits who have or may develop incontinence are the exemplar group for this discussion. Incontinence health literacy needs that emerged were in three areas: knowledge, skills in managing, and attitudes. In addition, barriers to communication and information seeking specific to different types of caregivers are revealed.

Management of Incontinence in Frail Community-Dwelling Elders

Sandra Engberg, Nursing, US:

This presentation will examine recent evidence on the assessment and management of UI in frail, community-dwelling older adults. Frailty, age-associated declines in physiologic reserve and function across multiple body systems, and urinary incontinence (UI) are two geriatric syndromes that often co-exist in they geriatric population. Evidence suggests that the presence of either frailty or UI increases the likelihood of the other syndrome with the risk of both syndromes increasing as age increases. Among frail older adults, the etiology of UI is generally multifactorial. These factors include age-related changes in lower urinary tract function as well as a wide variety of factors outside the lower urinary tract such as the effects of medications, comorbid medical and psychiatric illnesses, functional impairments and environmental factors. Given the multifactorial nature of UI in frail elders, assessment must be comprehensive with the goal of identifying all potential contributing factors. Managing UI in the frail elder population should start with the assessment, treatment and re-evaluation of potentially treatable conditions. Lifestyle and behavioral interventions are recommended as the initial treatment for unresolved UI followed by consideration of a trial of pharmacotherapy in appropriately selected patients. The goals of treatment need to consider patients' level of frailty, comorbid conditions, and patient/caregiver goals and expectations. While UI can almost always be improved, complete continence may not be a realistic goal for some frail older individuals.

Management of Post-Prostatectomy UI

Presenter: Stefano Terzoni, Nursing, Italy

Urinary incontinence is a common problem following prostate surgery. This presentation will focus on the management of urinary in this population. Current evidence about practical aspect of pelvic floor exercises is unclear in the literature. This is includes the idea body position, use of gravity, and how to increase the required muscular effort during the rehabilitation program. These issues will be discussed during this presentation as well as when and how to combine well-known treatments such as functional electrical stimulation and biofeedback with pelvic floor muscle exercises. Practical issues such as which type of stimulation to use, in which phase of the rehabilitation program it should be used and for how many sessions should be included will be discussed. The role of biofeedback and how it should be included as part of the exercise program will also be discussed.

Continence Care Nursing

Learning objectives Discuss the assessment and evidence-based management of urinary incontinence in frail, community-dwelling older adults and individuals who have had a stroke. Discuss nursing implications relative to pharmacological therapy in the management of patients with OAB. Discuss recent research findings relative to continence health literacy. Discuss the use of pelvic floor muscle exercise and electric stimulation in the management of post-

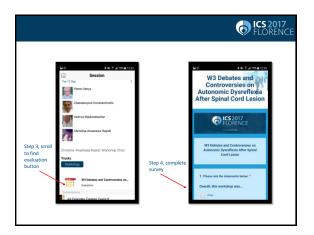
prostatectomy incontinence.

Topics and Speakers

FLORENCE

- Management of Bladder Dysfunction Following a Stroke: Jo Booth
- Pharmacological Management of OAB: Nursing
 Implications: Alison Bardsley
- Health Literacy about Incontinence: Donna Bliss
- Management of Incontinence in Frail Community-Dwelling Older Adults: Sandie Engberg
- Management of Post-Prostatectomy
 Incontinence: Stefano Terzoni

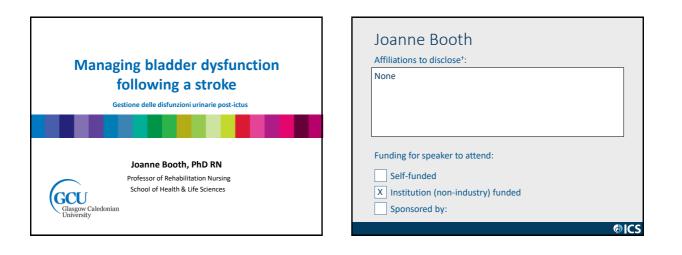




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- A full handout for all workshops is available via the ICS website.
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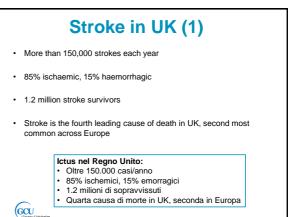
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• Gestione dei LUTD post-ictus secondo ICI 2017

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Strok	e in	UK	(2)
			(-/

- Stroke causes 7% deaths in men, 10% deaths in women in UK; across Europe 10% deaths in men, 15% deaths in women
- Stroke is leading cause of disability in UK two thirds of stroke survivors leave hospital with a disability
- Ictus nel Regno Unito (2):
- 7% mortalità negli uomini, 10% nelle donne in UK
- 10% negli uomini, 15% nelle donne in Europa
- Prima causa di disabilità in UK, 2/3 dei sopravvissuti sono dimessi con almeno una disabilità

Effects of stroke

Sensory-motor sensitivi/motori	80%
Communication comunicazione	33%
 Cognition capacità cognitive 	24-39%
 Vision capacità visive 	up to 65%
 Swallowing deglutizione 	40%
· Emotional/psychological Sfera emotiva	20-29%
Pain Dolore	20%
Social Sfera sociale	
COLUMN Childrain Statements	Stroke Association 2013

Impact of stroke on the bladder (1)

- Little good quality research investigating LUTD after stroke
- Very limited understanding of pathophysiology, natural history, types of bladder and bowel dysfunction

Impatto dell'ictus sulla vescica

Poche evidenze di qualità sui LUTD post-ictus Limitatissima comprensione della fisiopatologia, della storia naturale e delle disfunzioni vescicali e intestinali

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Impact of stroke on the bladder (2)

- Minimal evidence of effective intervention: focus is on containment more than supporting recovery and treatment
- Consensus on current evidence International Consultation on Incontinence (ICI) 2017

Impatto dell'ictus sulla vescica

- Le evidenze riguardanti trattamenti realmente efficaci sono minime
 Il focus è la riduzione dei sintomi più che sul trattamento e sulla riabilitazione
- · Esiste un consensus sulle attuali evidenze: ICS 2017

Urinary incontinence after stroke Incontinenza urinaria post-ictus • Affects 40-60% of people following a stroke: in UK 60,000 – 90,000 people each year

- Colpisce 40-60% dei pazienti post-ictus: 60-90.000 persone in UK ogni anno
- 44% report UI at 3 months, 38% at 12 months
- 44% riferisce incontinenza a 3 mesi, 38% a 12 mesi
- Physical, psychological and social impact
 Impatto fisico, psicologico, sociale
- Associated with complications
- L'incontinenza è associata a complicanze

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Borrie MJ et al. Age and Ageing. 1986; 15:177-81. Williams MP, et al. Age and Ageing 2012; 41;371-376

LUTD post stroke

	Sakakibara (1996)	Williams (2012)	Brittain (2000)
LUTD	53%	84%	64%
Nocturia	36%	79%	49%
Urgency UI	29%	37%	33%
Frequency		18%	15%
Difficulty voiding	25%		
Retention	6%		3.5%
GCU Bagow Calesteniar Bacowity	1	Brittain et	96, J Neurol Sci 137(1):47-56 al 2000 Stroke 31 (4):886-91 2012 Age Ageing 41(3):371-6

Types of lower urinary tract dysfunction after stroke – ICI, 2017

- · Neurogenic UI (OAB wet)
- Functional UI– cognitive, communicative, motor impairments and environmental challenges
- Mixed
- Incidence of LUTD in stroke patients ranges from 14-53% principally due to OAB and is higher when the frontal cortex is involved (LOE 3)

ICI, 2017; Chap 10 P 1196- 1200

- Disfunzioni del basso tratto urinario dopo ictus, ICI 2017:
- Incontinenza neurogena (vescica iperattiva bagnata)
- Incontinenza funzionale da disturbi cognitivi, comunicativi, motori e cambiamenti nell'ambiente circostante il paziente
- Mista
- Incidenza 14-53%, principalmente OAB. L'incidenza aumenta se la corteccia frontale è coinvolta.

ICI 2017 summary of stroke specific evidence Riassunto delle evidenze ICI 2017

- OAB (wet or dry) most common LUTD after stroke
- OAB asciutta o bagnata è il più comune LUTD post ictus
- · Infarction increased detrusor overactivity likely
- Nell'ischemia è probabile aumento iperattività detrusoriale
- · Haemorrhage detrusor underactivity more likely
- Nell'emorragia è probabile una ipoattività detrusoriale

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ICI 2017 summary of stroke specific evidence (2)

- · Localisation
 - frontal lobe associated with OAB
 - brainstem infarcts/ haemorrhage may be associated with more voiding difficulties
- No evidence for laterality

Localizzazione

- Lobo frontale: associato ad OAB Ischemie/emorragie possono essere associate a LUTS di svuotamento
- Nessuna evidenza per la lateralità

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Impact of urinary incontinence after stroke (1)

- More significant for stroke survivors than for those without stroke.
- · More severe stroke increases risk of UI
- · Increased mortality and disability
- · Increased institutionalisation, in first year

Burney TL, et al. Effects of cerebrovascular accident on micturition. Urol Clin North Am 1996;23:483-90 Patel, et al. Natural History and Effects on 2-Year Outcomes of Urinary Incontinence After Stroke.Stroke. 2001;32:122-127.

Impact of urinary incontinence after stroke (2)

- · Decreased discharge home
- · Depression 4 times more likely following stroke
- · Poorer quality of Life
- Reduced participation, impoverished social life and relationships

Conseguenze dell'incontinenza post ictus Dimissione tardiva, depressione, scarsa qualità di vita, impatto sociale

Impact of urinary incontinence after stroke (3) Associated complications: • Urinary tract infection • Dehydration • Skin breakdown

- · Sleep disturbance
- · Pain/physical discomfort

Complicanze: infezioni urinarie, disidratazione, lesioni cutanee, disturbi del sonno, dolore/discomfort fisico

Human costs of UI and FI

- Isolation
- Dependence
- Embarrassment
- Discomfort
- Fear
- · Frustration

Effects on stroke survivor and carers

Costi umani: Isolamento, dipendenza, imbarazzo, discomfort, paura, frustrazione. Impatto su pazienti e caregiver.

Nurses rehabilitation priorities

High

- MobilitySwallowing
- Speech
- Psychological support
- Bladder and bowel rehabilitation

Low

Priorità per l'infermiere: mobilità, deglutizione, comunicazione verbale, supporto psicologico, riabilitazione urinaria e intestinale.

Rehabilitation and care mismatch

- Management of bladder and bowel dysfunction are priorities for patients and their carers
- · Not seen as a priority by health care professionals:
 - poor assessment and case finding
 - poor treatment and care planning
 - poor implementation of **treatment** and care plans
 - poor bladder and bowel rehabilitation in evidence

Booth et al 2009. Rehabilitation nurses practices in relation to urinary incontinence following stroke: Journal of Clinical Mursing, 18, 1049–1058 White et al. The experience of urinary incontinence in stroke survivors. Canadian Journal of Occupational Therapy 2014, *81*, 2: 724-134

Vescica e intestino sono prioritari per pazienti e caregiver, ma non sempre lo sono per i sanitari -> scarsa considerazione.

Bladder management post stroke (1)

- ICI, 2017 Management will depend on the type of LUTD – neurogenic or functional or combination [LOE 3]
- · Treatment regimens should be individualised.

Gestione: dipende dal tipo di LUTD, la riabilitazione deve essere personalizzata.

Bladder management post stroke (2) Hyperacute interventions Lifestyle changes

- · Behavioural therapies
- Pharmacological
- · Environmental management
- Electrical stimulation

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Hyperacute phase

- Urinary retention common 37% (Cowey 2011)
- Support spontaneous recovery
 Early mobilisation
 - Regular attempts to use toilet
 - Monitor fluid balance
- · Intermittent catheterisation
- · Full continence assessment

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Lifestyle changes Neurogenic and functional LUTD

- Fluid management Type, amount, timing
- · Bowels avoid constipation
- Exercise
- Medication

Stile di vita: gestione liquidi, evitare costipazione, esercizio fisico, farmaci.

Behavioural therapies

Functional LUTD

- Education & self-monitoring
- Voiding programmes eg prompted voiding, timed voiding with physical assistance
- · Bladder training
- · Pelvic floor muscle training

GCU Ulasgow Cale

Pharmacological

- Bladder focused (neurogenic)
 - Anticholinergics / antimuscarinics those that do not cross blood-brain barrier easily
 - Beta 3 adrenergic agonist (Mirabegron)

• Disease focused (functional)

- Anticoagulants for atrial fibrillation
- Diuretics for hypertension

Gestione farmacologica: centrata sulla vesica o centrata sulla patologia.

Environment

Functional and neurogenic LUTD

- Access to toilet
- · Provision of assistance
- · Equipment and toileting aids
- · Comfort and cleanliness of toilet/toilet aid

Ambiente: accesso ai servizi igienici, assistenza, ausili, comfort e pulizia





Management of Incontinence

- Containment for social continence, not recovery of bladder function and continence promotion
 - > Absorbent products
 - > Penile sheaths
 - > Indwelling urethral catheters
 - > Supra-pubic catheters

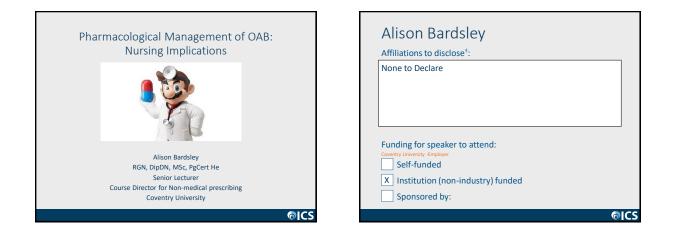
Gestione incontinenza: "contenimento" con assorbenti, clamp, cateteri

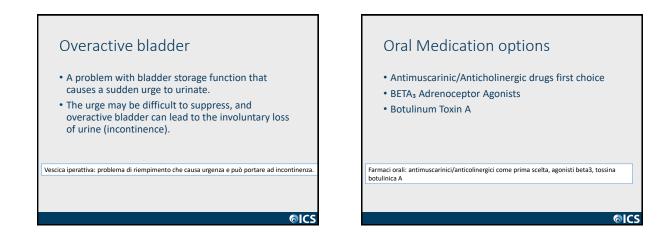
Conclusion (1)

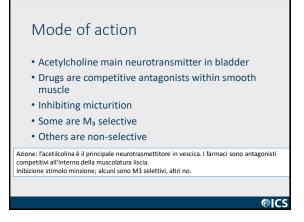
- · Limited understanding of LUTD following stroke
- ICI 2017 recommends dividing UI in stroke into two types – neurogenic UI (OAB wet) and functional UI (immobility and loss of initiative/cognition)
- Neurogenic needs anticholinergic drugs that do not penetrate blood brain barrier
- Functional UI needs behavioural therapy

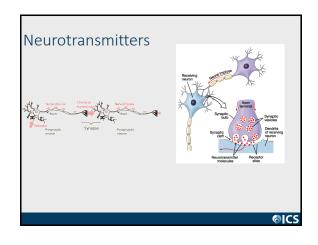
Limitata comprensione dei LUTD dopo stroke; l'ICI raccomanta suddivisione in OAB bagnata e incontinenza funzionale. La prima richiede anticolinergici, la seconda terapia comportamentale.

Conclusions (2) Functional UI needs behavioural therapy More stroke specific research needed Evidence on effective treatments essential Crincontinenza funzionale richiede terapia comportamentale. Serve più ricerca con evidenze solide sui trattamenti efficaci.



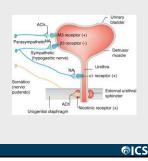


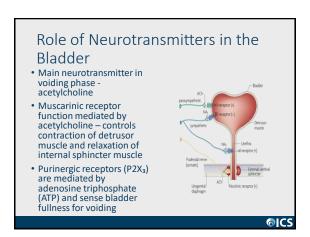




Role of Neurotransmitters in the Bladder

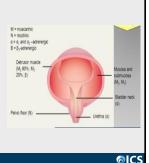
- Main neurotransmitter in storage phase norepinephrine
- Activates adrenergic receptors in bladder muscle and internal sphincter (B₃ and a₁) relax the bladder and close the internal sphincter

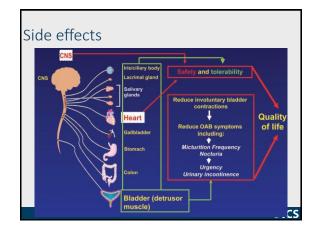




Muscarinic receptors

- Muscarinic receptors subtypes M₂ and M₃ predominant
- M₃ important for normal bladder contractions
- M₂ may play more prominent role in certain disease states
- Binding of acetylcholine to M₃ on detrusor activates signalling → bladder contraction and voiding





BETA₃ Adrenoceptor Agonists

- Mirabegron (Betmiga- MR) potent and selective beta 3-adrenoceptor agonist → relaxation of bladder smooth muscle
- Side effects: GI disorders, \uparrow Blood pressure
- Mirabegron should be offered if 'antimuscarinics' do not work, if they are not suitable, or their side effects are unacceptable
- Combination therapy an option for anticholinergicresistant neurogenic bladder

Mirabegron: offrire quando gli anticolinergici non funzionano. Rilassa la muscolatura liscia. Terapia combinata è un'opzione per la vescica neurologica resistente agli anticolinergici.

Alternatives??

- Atropine not used due to side effects
- Flavoxate scarce clinical evidence of effectiveness
- Propantheline –non-selective –effects not well documented
- Imipramine antidepressant with anticholinergic side effects – not recommended due to side effects (especially cardiac)
- Intravesical Vanilloids -Capsaicin and Resiniferatoxin
- Baclofen

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How do you choose?

- Take into account pre-existing conditions and coconcomitent medications especially the use of other anticholinergic medications
- · Risk of adverse effects and common side effects
- Treatment should be individualised

· Also consider

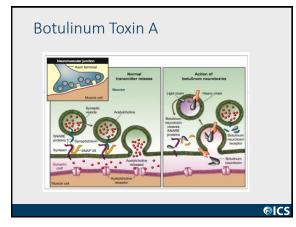
- The likelihood of success
- Frequency and route of administration
- Some adverse effects may indicate treatment is starting to have an effect
- May not see full benefit for 4 weeks

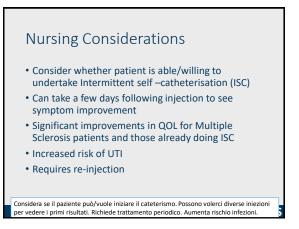
Come scegliere? Considera terapie e problemi pre esistenti, le probabilità di successo e il fatto che i risultati possano non giungere prima di 4 settimane.

Nursing considerations

- Importance of patient information
- Review after 4 weeks consider increasing dose or alternatives if ineffective or side effects not tolerated
- Patient concordance
- · How long to continue treatment
- Relapse rates
- Consider combination therapies

Considerazioni infermieristiche: informazione al paziente, valutare dopo 4 settimane, aderenza del paziente, durata del trattamento, recidive, possibili terapie combinate.





Summary

- Individualised treatment/management plan is essential
- · Patient assessment needs to be holistic
- The provision of Patient information is important to concordance
- Patients must be reviewed after 4 weeks when starting oral medication

In sintesi: il trattamento personalizzato è essenziale. L'accertamento deve essere olistico. L'informazione al paziente è importante per la compliance. Dopo 4 settimane bisogna rivalutare i risultati.

References

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Donna Blis	S	
Consi Trave	ons to disclose: ulting agreement with Domtar I expenses and honorarium for conference ntation from Hartmann	
x	or speaker to attend: Self-Funded nsituttion (non-industry) funded	
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Health Literacy

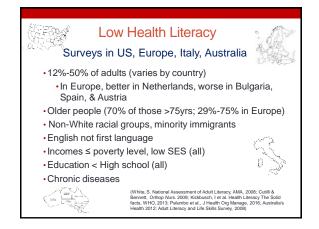
US (NIH and IOM):

- Access and navigate health information and healthcare system and seek care
- · Ability to communicate with a healthcare provider
- Understand info and make choices
- · Manage chronic health conditions
- Engage in symptom self-management
- (NIH, 2012 http://www.nih.gov/clearcommunication/healthliteracy.htm; Institute of Medicine, 2004) https://www.nap.edu/read/10883/chapter/4)

Europe (WHO):

 Health care + disease prevention + health promotion (Kickbusch, I et al. Health Literacy The Solid facts, WHO, 2013) UNIVERSITY OF MINNESOTA

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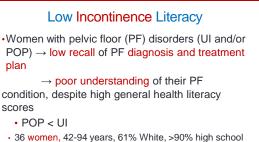


Low Health Literacy Effects

- Report worse health status
- Increase rates of non-communicable diseases
 cancer, diabetes, heart, and respiratory disease
- Stigma
- · Less communication with providers
- · More hospitalizations
- Increased healthcare costs
- Cost of limited health literacy to US economy = \$106 \$236 billion USD annually (2010)

(White, S. National Assessment of Adult Literacy, AMA, 2008; Cutilli & Bennett, Orthop Nurs. 2009; Kickbusch, I et al. Health Literacy The Solid facts, WHO, 2013; Australia's Health 2012; Adult Literacy and Life Skills Survey, 2008)

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- Interview & checklist about diagnosis and treatment plan at clinic, taped
- Took Test of Functional Health Literacy in Adults

(Anger et al., Female Pelvic Med Reconstruct Surg, 2012)

Low Incontinence Literacy

• Adults with fecal incontinence lack terms to describe their problem to clinicians (Patel et al., JWOCM, 2010)

- Use terms for other GI problems –confound dx
 (e.g., diarrhea, colitis. IBS)
- UI terms confusing (OAB vs UI?)
 (Chelvanavagam & Norton, Nurs Times, 2000; Patel et al. JWOCN, 2010)

•< 25% church group reported their UI, FI or DI to a clinician</p>

•n=145, M & F, aged 21-80+

• 1/3 desired more info about incontinence and its treatment (Haasan, C. JWOCWAbstract, 2016)

Caregiver Health Literacy Needs

- Caregiving is self-affirming yet stressful
 (AIHW 2011; Lieberman, 1995; Almberg et al., JAdv Nurs. 1997; Mittelman, et al., 2006)
- Caregivers of cancer patients
 - Difficulty learning clinical information
 - Unable to interpret details
 - Receive too little or too much information
 - Dissatisfied with the communication & abrupt manner of clinicians
 - (Bevan et al., Patient Education Counseling 2008)
- UI and FI occur in Alzheimer's disease (AD) --Family caregivers feel unprepared to manage – in different conditions
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(McCallum et al., Australian J Aging, 2005)

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Assessing Incontinence Literacy Needs of Carers of Individuals with AD

•15 million carers in US; 1 million in Australia (http://www.alz.org/facts/; http://www.alz.org/au/dementia-alzheimers-australia.asp#caregiving)

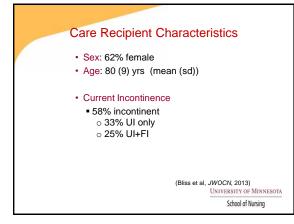
• >1 million Italians are living with dementia. By 2020, 584,000 new cases of dementia (are estimated for) the country (http://www.aiz.org/i/dementia-alzheimers-lay.asp(

Our study -- Informal caregivers who assist or will assist family member or friend with incontinence

•7 community care sites



Informal Caregiver Sample • n = 48 Types of Caregivers 43% spouses Sex: 75% female 31% children (daughters) • Age = 64 (14) yrs 14% other relative (mean (sd)) 10% friends Race/Ethnicity 52% White, not Hispanic Education 48[']% minority •71% ≥ high school o10 % Black o 6% > 1 race o 31% Hispanic UNIVERSITY OF MINNESOTA (Bliss et al. JWOCN, 2013) School of Nursing



	Incontinence Literacy needs Knowledge		
•	Why does incontinence occur in AD? during sleep?		
•	 Common "adult" terms for incontinence and skin damage 		
•	 Management options other than pads Medications, diet, fluids, surgery, behavioral 		
•	Guide to absorbent and skin care products		
•	Skin damage descriptions		
•	Questions to ask a nursing home		
	(Bliss et al, JWOCN, 2013) UNIVERSITY OF MINNESOTA		
	School of Nursing		



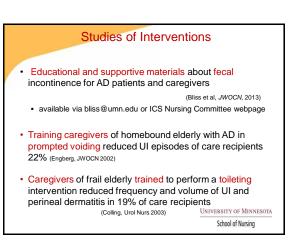




Studies of Interventions

- Tät mobile app for self-management of stress UI improved ICIQ-UI and LUTs scores of 62 Swedish women vs 62 with delayed Rx (Asklund et al., NAU 2016)
- A continence education brochure prompted individuals to take self-care actions (O'Connell, JWOCN 2000)
- Self-management/literacy UI intervention improved ICIQ-UI scores, knowledge, attitudes
 - o17 community Korean women
 - Intervention = UI knowledge, attitudes, myths, lifestyle factors, behavioral Rxs, communication in five 90 min group sessions (De Gagne J Int Nurs Sci, 2015)

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Summary

- · Incontinence literacy is low
 - · Patients and carers need/desire more info
- •Nurse continence specialists have an important role in raising incontinence literacy
 - · Provide care resources, increase communication, and educate on management
- Mobile resources new tools
 - · Hard copy and face to face consultation may benefit others/elderly

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Management of UI in Frail Community Dwelling Older Adults

La gestione dell'incontinenza urinaria negli anziani fragili a domicilio

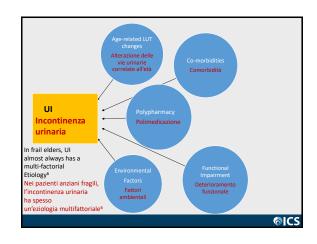
Sandra Engberg, PhD, RN, CRNP, FAAN

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X Institution (non-industry) funded	
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Frailty – Fragilità Frailty – Fragilità • A decline in physiologic reserve and function across • As the population worldwide ages, the proportion of multiple organ systems¹ frail individuals is increasing Estimated prevalence of 30% in those >85 years³ · Una riduzione delle riserve fisiologiche e delle funzioni nei sistemi organici1 • La popolazione mondiale invecchia e la proporzione · Increased vulnerability to stressors results in degli individui fragili aumenta: increased risks for disability, nursing home • Prevalenza stimata al 30% nelle persone >85 anni³ admission, hospitalization and mortality² L'aumento di vulnerabilità a 'stressors' aumenta il rischio di disabilità, ammissione nella casa di riposo, ospedalizzazione e mortalità² **OICS OICS**

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Ul and Frailty – Incontinenza urinaria e fragilità Geriatric syndromes that often co-exist The presence of each increases the risk of the other^{4, 5} In one study, UI was associated with a 6.5 greater risk of frailty (controlling age and sex)⁴ Sono sindromi geriatriche che spesso coesistono La presenza di una aumenta il rischio dell'altro^{4, 5} In uno studio, l'incontinenza urinaria è stata associate ad un aumento del 6.5 del rischio per fragilità (controllato per età e sesso)⁴



Assessment - Assessment

- · Goal: identify potentially contributing factors
- Obiettivo: identificare possibili fattori contribuenti
- Screen for frailty⁶
- Screening della fragilità⁶
- Comprehensive assessment to identify co-morbid conditions, functional impairments and medication that increase the risk for UI
- Assessment multidimensionale per identificare possibili condizioni di comorbidità, un deterioramento funzionale e farmaci che aumentano il rischio di incontinenza urinaria

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Assessment - Assessment

- Targeted UI history and focused physical examination
- Anamnesi mirata sull'incontinenza urinaria e esame fisico
- Patient/caregiver preferences in relation to treatment and outcome expectations
- Preferenze del paziente/dei caregiver in relazione alle aspettative di trattamento e outcome
- Other diagnostic tests as indicated
- Altri test diagnostici se indicati

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Management - Gestione

- Treatment goals need to: consider level of frailty, co-morbid conditions and impairments and patient/caregiver preferences and outcome expectations
- Gli obiettivi di trattamento devono: considerare il livello di fagilità, le condizioni di comorbidità e deterioramento, le preferenze del paziente/dei caregiver e le aspettative sugli outcome
- Complete continence may not be a realistic goal for those who are very frail⁶
- La continenza completa potrebbe essere un obiettivo non realistico per i pazienti in uno stato di fragilità avanzato

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Management - Gestione

- Begin with assessment, treatment, and reevaluation of potentially treatable conditions
- Iniziare con l'assessment, trattamento e ri-valutazione delle condizioni trattabili
- Lifestyle interventions, e.g., fluid management, and smoking cessation, physical activity & prevention of constipation
- Interventi sullo stile di vita, per es.: gestione dei fluidi, cessazione del fumo, attività fisica e prevenzione della stipsi

OCS



Management - Gestione

- Environmental interventions
 - Lack of access to toilets and timely toileting assistance are well known risk factors for UI
 - For frail elders unable to toilet independently, the availability of timely toileting assistance is critical to the success of all other interventions for UI
- Interventi ambientali
 - Mancanza di accesso al bagno e assistenza precoce per andare in bagno sono fattori di rischio per l'incontinenza urinaria
 - Per anziani fragili che non sono autonomi a recarsi in bagno, l'assistenza precoce è un fattore cruciale per il successo degli altri interventi sull'incontinenza urinaria

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Management - Gestione

- Behavioral interventions
 - Lack of side effects make behavioral interventions ideal first-line treatment options
 - Cognitive and functional status guides the best approach
- Interventi comportamentali
 - l'opzione primaria e ideale per il trattamento per l'assenza di effetti indesiderati
 - lo stato cognitivo e funzionale guida l'approccio migliore

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Management - Gestione

- Voiding programs
 - When cognitive and/or physical impairments that limit ability to actively participate in self-care
 Require active caregiver participation
- Prompted voiding: combines regular prompts to void with positive feedback for appropriate toileting
- Programmi di voiding/svuotamento
 - Se la partecipazione attiva e il 'self-care' sono limitati a causa del deterioramento cognitivo e/o funzionale
 - Richiede la partecipazione attiva da parte del caregiver
- Prompted voiding- Svuotamento guidato : combinazione tra tentativi regolari con un rinforzo positivo quando lo svuotamento è stato appropriato

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Management - Gestione

Prompted Voiding

- 3-day trial is recommended to identify those most likely to benefit
 - At least a 20% reduction in wet checks, appropriate toileting rate of at least 66% and requires assistance of no more than one caregiver to toilet⁶

Prompted Voiding - svuotamento guidato

- 3 giorni di sperimentazione sono raccomandati per identificare gli anziani che possano trarne beneficio
 - Una riduzione di almeno il 20% di perdita delle urine, un tasso di toileting appropriato di almeno il 66% e per andare in bagno non necessita più di un caregiver⁶

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Management - Gestione

- Habit training (matching toileting schedule to voiding pattern) and scheduled toileting (regular toileting without prompts)
 - Insufficient evidence to determine effectiveness⁶
- Il Habit training (adattare il piano di toileting al ritmo e al modello minzionale) e la toileting programmata (toileting regolare senza guida da parte del caregiver)
 Evidenza sull'efficacia non sufficiente⁶

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Management - Gestione • Those able to actively participate in treatment may be candidates for pelvic floor muscle training (PFMT) and/or bladder training (BT) • Limited research examining effects of these intervention

 Anziani che possono participare attivamente ai trattamenti sono candidati per la ginnastica pelvica ('pelvic floor muscle training') e/o addestramento vescicale ('bladder training')

Management - Gestione

- Systematic review with 3 studies examining the effect of a multicomponent behavioral intervention (with PFMT and BT): significant reductions in UI at the end of the interventions⁹
- Revisione sistematica di 3 studi esaminando gli effetti di un intervento multicomponente comportamentale (con ginnastica pelvica e addestramento vescicale): riduzione significativo dell'incontinenza urinaria alle fine dell'intervento⁹

Management - Gestione

- Study comparing PFMT in frail (homebound) and nonfrail older adults: significant reductions in UI in both groups (frail: 64.5%; non-frail: 70.4%); no significant group differences¹⁰
 - Most frail elders will need ongoing support to sustain improved continence levels
- Uno studio ha comparato la ginnastica pelvica tra anziani fragili (a domicilio) e anziani non-fragili: riduzione significativa dell'incontinenza urinaria in tutti e due i gruppi (fragili: 64.5%; non-fragili: 70.4%); nessun differenza tra i gruppi¹⁰
 - La maggior parte degli anziani fragili ha bisogno di un supporto continuo per sostenere il miglioramento della continenza urinaria

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Management - Gestione

Pharmacologic treatment

 Increased risk for adverse effects in frail elders
 Only consider after potentially remedial comorbid conditions/factors are addressed and there is an appropriate trial of behavioral therapy and lifestyle interventions⁶

Trattamento farmacologico

- Rischio elevato per effetti indesiderati negli anziani fragili
- Da considerare solo dopo possibili condizioni/fattori di comorbidità sono stati indirizzati e dopo una fase di prova sufficiente di interventi comportamentali e interventi sullo stile di vita⁶

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Management - Gestione

- Pharmacologic treatment
 - Generally, should not be used if unable/unwilling to toilet

• Trattamento farmacologico

• In generale, non da considerare se l'anziano non è in grado/cooperante ad andare in bagno

GICS

Conclusions - Conclusioni

- The prevalence of both frailty and UI increase with age and the two conditions often co-exist
- La prevalenza della fragilità e dell'incontinenza urinaria aumenta con l'età e spesso queste due condizioni coesistono
- The etiology of UI is generally multifactorial with contributing factors extending beyond the lower urinary tract
- L'eziologia dell'incontinenza urinaria è multifattoriale con fattori contribuenti il basso tratto urinario

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Conclusions - Conclusioni

- Assessment and treatment must take the many potential contributing factors into consideration
- L'assessment e il trattamento devono prendere in considerazione i vari possibili fattori contribuenti
- Goals of treatment need to consider the individual's level of frailty, co-morbid conditions, and patient/caregiver preferences and expectations
- Gli obiettivi del trattamento devono considerare il livello di fragilità e le condizioni di comorbidità dell'individuio e le preferenze e aspettative del paziente e il suo caregiver

Conclusions - Conclusioni

- Treatment should start with the assessment, treatment and re-evaluation of potentially treatable conditions
- Il trattamento inizia con l'assessment, il trattamento e la rivalutazione delle possibili condizioni trattabili
- If UI is unresolved, treatment should focus on lifestyle and behavioral interventions
- Se l'incontinenza urinaria non viene risolta, il trattamento deve focalizzarsi sullo stile di vita e sugli interventi comportamentali

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Conclusions - Conclusioni

- If UI continues, a trial of pharmacotherapy can be considered in appropriately selected patients
- Se l'incontinenza urinaria persiste, si può prendere in considerazione un trattamento farmacologico nei pazienti appropriamente selezionati
- UI can almost always be improved in frail elders but complete continence may not be a realistic goal depending on the level of frailty
- L'incontinenza urinaria può quasi sempre essere migliorata negli anziani fragili, però dipende dal livello di fragilità. La continenza completa non è un obiettivo realistico

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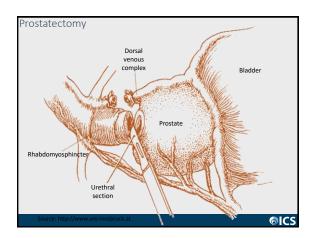
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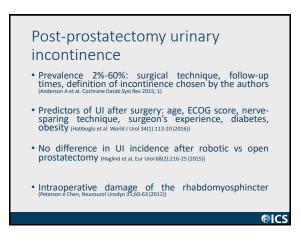
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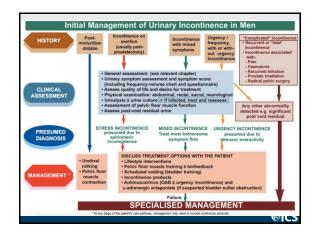
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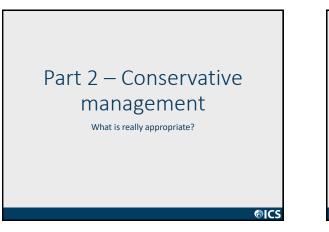
The ICIQ modular questionnaire

ICIQ-MLUTS [29] (ICS-male5F)	Msie lower urinery tract symptoms and associated bother.	Voiding Incontinence Individual items evaluating frequency and nocturia	13	A
ICIQ-FLUTS (30) (BFLUTS SF)	Female lower urinary tract symptoms and associated bother.	Filling Voiding Incontinence	12	٨
ICIQ-VS [31]	Vaginal symptoms including prolapsed and associated bother.	Vaginal symptoms Sexual matters Quality of life	14	٨
ICIQ-B [32, 33]	Bowel symptoms including anal incontinence and associated bother	Bowel pattern Bowel control Quality of life	21	A+
ICIQ-UI Short Form [28]	Urinary incontinence.	 Uninary incontinence frequency, overall interference Perceived cause of incontinence 	4	A
ICIQ-LUTSqol[4, 34] (King'sHealth Questionnaire))	HRQL issues associated with urinary symptoms and associated bother.	Life restrictions Emotional aspects Proventive measures	22	٨.
ICIQ-MLUTSsex[35] (ICS/malv)	Male sexual matters associated with urinary symptoms and associated bother.	Erection and ejaculation issues Overall interference	4	A
CIQ-FLUTSeex[36] (BFLUTS)	Female sexual matters associated with urinary symptoms and related bother.	 Pain and leakage with sexual intercourse Overall interference 	4	A
ICIQ-FLUTS Long Form	Datalled assessment of female lower urinary tract symptoms and associated bother.	 Varied lower urinary tract symptoms 	18	A
ICIQ-MLUTS Long Form (ICSmale)	Detailed assessment of male lower urinary tract symptoms and associated bother.	 Varied lower urinary tract symptoms 	23	A
ICIQ-N	Comprehensive assessment of symptoms of nocturia and associated bother.	 Frequency Nocturia. 	2	A
ICIQ-OAB	Comprohensive assessment of symptoms of overactive bladder and associated bother.	Frequency Noctaria Urgency Urgency Urgency	4	٨
ICIQ-OABqol (OAB-q) [5]	Detailed assessment of health- related quality of life issues associated with overactive bladder.	Coping ConcernWorry Sheep Social Interaction	25	٨
ICIQ-Neol (NQOL) [37, 38]	Detailed assessment of HRQL issues associated with nocturia.	 Issues associated with sleep disturbance Life restrictions Preventive measures 	13	٨.



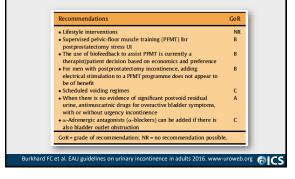
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▶Urgency	▶ Po	or stream	
Incontinence	▶ He	sitancy	
▶ St		ain	
	▶ Ter	minal dribbl	ing
Post-micturition:			
Post-micturition dribbling			
Incomplete voiding			
Abrams et al. Neurourol Urodyn 21:167-178	(2002)		©ICS

Voiding diary • 4 days of assessment · Fluid intake and urine voiding • Urine volume • Leakage Bladder activity: Meaning Score Micturition for social reasons, without stimulus 0 1 Stimulus without urgency 2 Urgency solved before reaching the toilet Urgency until micturition, without leakage 3 4 Urgency with leakage before reaching the toilet Bright et al. Neurourol Urodyn 31:625-633 (2012) 6105

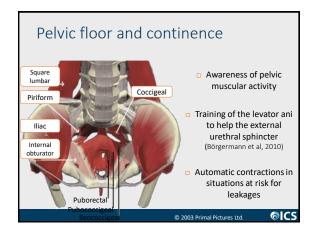


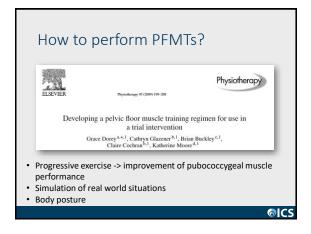


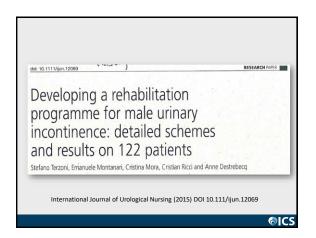
Recommendations from the literature



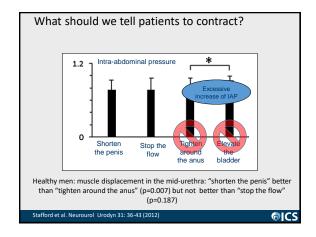
Pelvic floor muscle training appears to speed the recovery of continence following radical	
prostatectomy.	1b
Pelvic floor muscle training does not cure urinary incontinence in men post radical prostatectomy or transurethral prostatectomy.	1b
There is conflicting evidence on whether the addition of bladder training, electrical stimulation or biofeedback increases the effectiveness of PFMT alone.	2
Pre-operative PFMT does not confer additional benefit to men undergoing radical prostatectomy.	1b





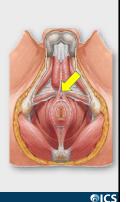


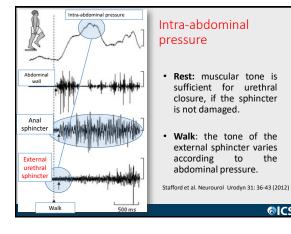
Ideal patients •young and healthy	Real patients •can be elderly, with multiple comorbilities, pathologic breathing patterns, postural defects, spinal discs herniations
able to learn quickly	 can have poor education, or experience difficulties in understanding our indications
 able to perform the exercises perfectly, even in the long run 	 can have antagonist synergies, poor self perception, hold their breath, use inappropriate muscles
	Chen SY, Tzeng YL. J Nurs Res. 2009;17:83–9 Hay-Smith EJC, Ryan K, Dean S. Physiotherapy. 2007;93:53–61
	©ICS



"Am I doing it right?"

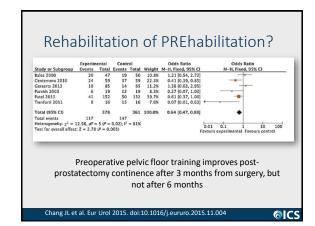
- Importance of feedback during the exercises: self-palpation of the fibrous nucleus
- But: what if pelvic muscles are too weak to allow sensing contraction clearly?
- · Biofeedback or functional electrical stimulation?

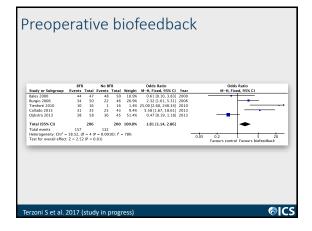


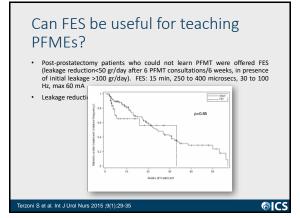


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Take home messages: our patients...

- Need motivation: fostered by "enthusiast clinicians", reinforcement messages and explanations on why they should do the exercises every day in that way
- Need no taboos: they've been through enough!
- Need support when results do not come immediately
- Need their caregivers: they're part of patients' life!
- Experience complex situations if compared to most literature papers: need for evidence-based practice, medical humanities, and commitment.

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