

W10: Promoting an Evidence-Based Approach to Quality Continence Care for Frail Older Adults

Workshop Chair: Joan Ostaszkiewicz, Australia 06 October 2015 14:00 - 15:30

Start	End	Topic	Speakers
14:00	14:05	Introduction	Joan Ostaszkiewicz
14:05	14:15	Promoting continence in long-term care: How far have we come?	Joan Ostaszkiewicz
14:15	14:30	Evidence-based continence care for frail older adults: A right or privilege?	Mary H Palmer
14:30	14:45	Systematic review of systematic reviews: Evidence synthesis of managing urinary incontinence in older people in care homes	Brenda Roe
14:45	15:00	Successes and challenges with designing continence programs for community-dwelling frail older women	Kristine Talley
15:00	15:15	Frailty in the primary and community setting: Can integrated care support us growing old?	Sharon Eustice
15:15	15:30	Questions	All

Aims of course/workshop

The aim of this workshop is to provide an overview of contemporary research about the assessment and management of lower urinary tract symptoms in frail older adults in different health care settings, and to describe the implications of this research for policy, research and practice.

Learning Objectives

- 1. Describe contemporary research about the assessment and management of lower urinary tract symptoms in frail older adults in different health care settings.
- 2. Debate the concept of quality continence care and quality of life for frail older adults with incontinence.
- 3. Evaluate the implications for policy, research, and practice.

Promoting an evidencebased approach to 'quality continence care' for frail older adults

Dr Joan Ostaszkiewicz, PhD, RN, MN Professor Mary H. Palmer, PhD, RNC, FAAN, AGSF Professor Brenda Roe, PhD, RN, RHV, FRSPH Dr Kristine Talley, PhD, RN, GNP-BC Ms Sharon Eustice, MSc, BPhil, RGN, DNCert, Dip(NP)

The aim of the workshop

- ▶ To provide an overview of contemporary research about the assessment and management of lower urinary tract symptoms in frail older adults across the continuum of health care services
- ▶ To describe the implications of this research for policy, research and practice

Workshop speakers

- Dr Joan Ostaszkiewicz, PhD, RN, MN
 Postdoctoral Research Fellow,
 Centre for Quality and Patient Safety Research, School of Nursing & Midwifery
 Deakin University (Aust)
- Professor Mary H. Palmer, PhD, RNC, FAAN, AGSF

 Helen W. & Thomas L. Umphlet Distinguished Professor in Aging
 School of Nursing
 The University of North Carolina at Chapel Hill (USA)
- Professor Brenda Roe, PhD, RN, RHV, FRSPH
 Professor of Health Research
 Evidence-based Practice Research Centre, Faculty of Health & Social Care
 Edge Hill University (UK)
- - School of Nursing
 University of Minnesota (USA)
- Ms Sharon Eustice, MSc, BPhil, RGN, DNCert, Dip(NP)

 Nurse Consultant for Continence

 Bladder and Bowel Specialist Service

 Peninsula Community Health, Cornwall and Isles of Scilly, (UK)

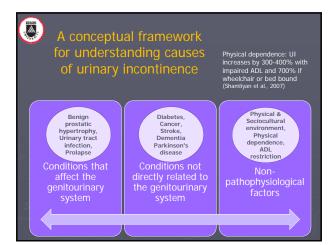
Long-term care

- 2/3 people in the USA who reach age 65 will need LTC during their life (Harris-Kojetin et al. 2013)
- Long-term care services include a broad range of health, personal care, and supportive services that meet the needs of frail older people and other adults whose capacity for selfcare is limited because of a chronic illness; injury; physical, cognitive, or mental disability; or other health-related conditions (HHS, 2013)

Long-term care services are provided by paid, regulated providers (Harris-Kojetin et al., 2013)

Limited assessment and inconsistent toileting assistance

- No toileting programmes for residents with incontinence
 - USA (22.8%)
 - Italy (12.3%)
 - Denmark (6.6%)
 - France (5.3%)
 - Japan (4.3%)
- Sweden (2.7%)
- Iceland (2.6%) (Sgadari et al, 1997



Guidelines and evidence-based interventions (Wagg et al, 2013, 2014)

- Conduct a comprehensive and individualised assessment to identify potential modifiable or reversible causes
- Conduct a basic assessment then a specialised assessment
- Consider the multifactorial nature of incontinence in older people
- Adopt a minimally invasive approach, consider life expectancy, quality of life, and realistic outcome possibilities
- Ensure equitable access to the full range of options

- Staff education
- Toileting assistance programmes
- Strength/endurance/mobility programmes
- Evidence-based and multidisciplinary continence assessments



Working in a highly regulated environment

- o Difficulty operationalising funding requirements
- ${\color{red} \bullet \ Difficulty \ complying \ with \ care \ standards} \\$
 - · A focus on documentation & funding
 - Confusion, uncertainty and mistrust
 A culture of risk adversity

 - Highly protective responses

Ostaszkiewicz J, O'Connell B, Dunning T. Fear and overprotection in Australian residential aged care facilities: The inadvertent impact of regulation on quality continence care. (Accepted for publication AJA)



A devalued role

- · Personal care work has the symbolic distinction of being 'dirty work'
- Frontline staff:
 - Heavy workload/lack of time for "extra" care.
 Poorly remuneration

 - Feel public do not understand, appreciate, value
 - Feel undervalued, disempowered, subordinate, marginalised
 - Feel limited to:

 - 'Just doing dirty work'
 'Just doing the wees and poos'
 'Just helping residents get ready for lifestyle staff'



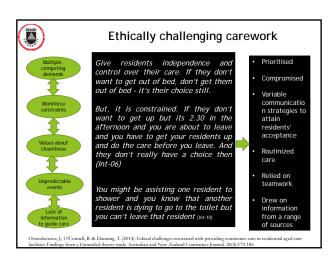
Responses to a devalued role

- No choice but to 'grapple' with devaluation, stigma, aesthetically unpleasant and 'dirty' work
- Buckle under
- Strive for the best
- Adopt self-protective distancing behaviours and concealment strategies
 - Claim to rise above disgustEngage in emotional labour

 - Create physical distance practical & symbolic significance
- Seek roles with higher occupational status
- · Espouse dignity and the greater good
- Reframe care

 - Positively assert the value of 'dirty work'
 Reframe personal care work/continence care as 'dignity work'

Highly dependent residents negative broader cultural beliefs about older people They [cognitively impaired residents] don't do the normal job anymore. They are sitting and sleeping most of the time. They are not active. They are sitting in the room and you try to get them up for activities and exercise and they say, with the say of the say o Being disheartened Attributing symptoms to ageing rather than to pathological and potentially 'why, why do I have to do this' (Int-01). treatable conditions



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Recommendations to address the multiple	
interrelated complex factors influence the	
delivery of continence care in LTC	
Redress the longstanding problem of lack of skilled nursing staff and understaffing	
▶ Ensure policy makers are aware of the front-line realities of performing carework	
 Tackle longstanding problems of ageism, under resourcing and overregulation of LTC, and the stigma associated with carework 	
Involve ethicists in developing guidance to assist staff respond to the day-to-day	
complex ethical issues that arise when providing continence care	-
▶ Ensure assessments for funding are disentangled from assessments for clinical care	
► Ensure regulation does not have unintended negative effects	
 Ensure standards of care are contextually appropriate, achievable, understandable, evidence-based and underpinned by a suite of quality indicators that enable us to 	
measure the quality of care	
Ostaszkiewicz J. Providing continence care in residential aged care facilities: A Grounded theory study: Deakin University: 2013.	
	_
Early findings from a qualitative study to explore	
perspectives about 'quality continence care in LTC	
Dignified continence care:	
being cared for by staff who:	
 Conveyed compassion / empathy Offered choice Having one's body exposed Feeling objectified 	
➤ Spoke in a calm manner	
 Covered them during Being woken against one's will for continence care 	
 Checked, changed and discarded Being encouraged to use pads 	
► Helped conceal their reliance on	
continence products focus was on completing a task Made them feel dry and	
comfortable	
 Did not embarrass them Recognised and responded in a 	
timely and sensitive manner to their need for assistance	
Ostaszkiewicz et al., in press	
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▶ 1948 Universal Declaration of Human Rights	
 The right to health Access to timely, acceptable, and affordable healthcare of appropriate 	
quality	
► 'Access'	-
Gaining entry into the health care system. Getting access to sites of care where patients can receive needed services.	
 Finding providers who meet the needs of individual patients and with 	
whom patients can develop a relationship based on mutual communication and trust (AHRO)	

Implications for policy, research and practice

- UI/FI are prevalent symptoms in LTC that are caused by pathophysiological and/or non pathophysiological factors

 Need to address both in policy, research and practice
- Multiple inter-related factors influence how LTC staff determine and deliver continence care i.e. regulation, low role status, residents' highly dependent status, ethically challenging care environment – can hinder or promote quality continence care
- Providing 'evidence based continence care' in LTC requires a multifaceted approach that guarantees residents' rights are upheld and ensures they feel respected, safe, and dignified

References

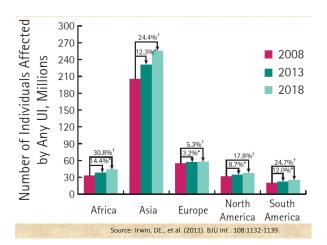
- Human Rights, many control of the Many State of

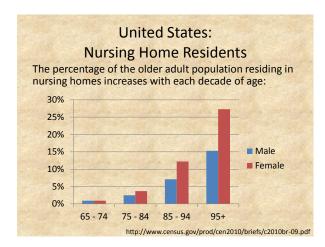
Evidence-based continence care for frail older adults: A right or a privilege?

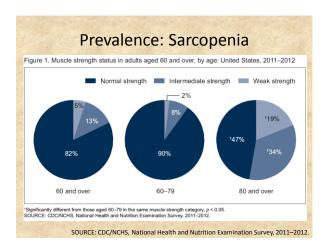
Mary H. Palmer, PhD, RNC, FAAN, AGSF Helen W. & Thomas L. Umphlet Distinguished Professor in Aging The University of North Carolina at Chapel Hill School of Nursing

Objectives

- Explore continence care as a legal, regulatory, and ethical issue.
- Propose value proposition for provision of evidence-based continence care for ALL frail older persons.

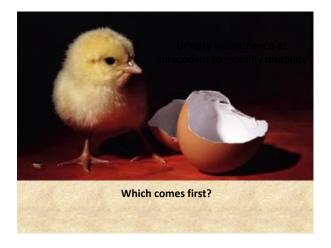






Frailty

- By age 80 years, 40% of older adults have functional impairments
- 6% to 11% are considered frail
 United States estimate: 6.1% Source: DuBeau et al., 2009
- Psychological effect of transition from robust (independent) to frailty – evolving identity, "looking glass self" source: Fillitt & Butler, 2009



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Right: noun

"That which is just, moral, or proper."

Source: http://www.thefreedictionary.com/right

Privilege: noun

"A special advantage, immunity, permission, right, or benefit granted to or enjoyed by an individual, class, or caste."

Source: http://www.thefreedictionary.com/privilege

Continence Care: Regulatory and Legal Perspectives

In the United States:

"Federal law contains four key standards for nursing home care:

- The nursing home must provide services to help each resident attain or maintain the highest practicable physical, mental, and psychosocial well-being.
- A resident's ability to bathe, dress, groom, transfer, walk, toilet, eat and communicate must not decline unless it is medically unavoidable.
- If a resident is unable to carry out activities of daily living, he or she must receive help to maintain good nutrition, grooming, and personal and oral hygiene.
- Each resident has the right to make choices about his or her care."

Source: http://www.atlantalegalaid.org/fact11.htm

UNITED STATES DEPARTMENT OF LABOR
DEPARTMENT OF LABOR

SHA QuickTakes

Interpretation of 29 CFR 1910.141(c)(1)(i): Toilet Facilities

The language and structure of the general industry sanitation standard reflect the Agency's intent that employees be able to use toilet facilities promptly. The standard requires that toilet facilities be "provided" in every workplace. The most basic meaning of "provide" is "make available." ...

Toilets that employees are not allowed to use for extended periods cannot be said to be "available" to those employees. Similarly, a clear intent of the requirement in Table J-1 that adequate numbers of toilets be provided for the size of the workforce is to assure that employees will not have to wait in long lines to use those facilities. <u>Timely access is the goal of the standard</u>....

 $\underline{https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=INTERPRETATIONS\&p_id=22932$

Regulatory Implications: Long-term Care

REGULATION: F315 §483.25(d) Urinary Incontinence Based on the resident's comprehensive assessment, the facility must ensure that:

- §483.25(d) (1) A resident who enters the facility without an indwelling catheter is not catheterized unless the resident's clinical condition demonstrates that catheterization was necessary; and
- §483.25(d) (2) A resident who is incontinent of bladder receives appropriate treatment and services to prevent

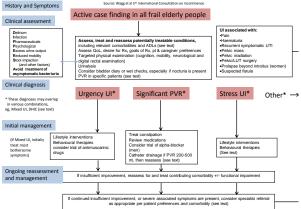
Legal Implications

Nursing home resident waits 45 minutes on toilet for help, breaks pelvis, \$4 million suit says

David E. Pattison's suit claims that the actions against him by staff at Avamere Health Services' nursing homes in Southwest Portland and Beaverton were "outrageous."

Source: Aimee Green | The Oregonian/OregonLive By Aimee Green: February 27, 2015 at 11:00 AM, updated February 27, 2015 at 11:49 AM

MANAGEMENT OF URINARY INCONTINENCE IN FRAIL OLDER MEN & WOMEN



Urinary incontinence in the long term care setting. Columbia (MD): American Medical Directors Association (AMDA); 2012

Guideline Objective(s): To improve the quality of care delivered to patients with urinary incontinence (UI) in long term care (LTC) facilities and to provide guidelines that focus on UI in the LTC setting.

Target Population: Elderly individuals and/or residents of long term care (LTC) facilities with urinary incontinence (UI)

Diagnosis/Evaluation

- · Review of patient history of urinary incontinence (UI)
- · Documentation of signs/symptoms of UI
- Identification of factors (including modifiable factors) affecting continence
- Physical examination and additional work-up, as indicated (e.g., PVR testing, urinalysis, bladder stress testing, prostate specific antigen [PSA] testing)
- · Summarization of patient information

Urinary incontinence in the long term care setting. Columbia (MD): American Medical Directors Association (AMDA); 2012 ... continued

Treatment/Management

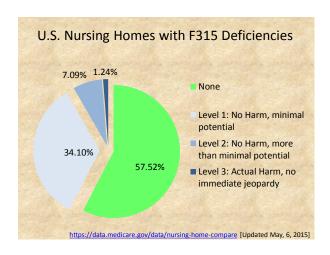
- · Development of treatment goals and individualized treatment plan
- Addressing transient causes and modifiable risk factors for incontinence
- Toileting program
- Additional or alternate programs including bladder rehabilitation/retraining or pelvic floor rehabilitation
- Pharmacologic therapy
- · Incontinence devices and products
- Pelvic support devices
- Surgery for incontinence
- Catheterization (intermittent or indwelling)
- · Monitoring the course of UI and its treatment

Uningrating	ontinonco	n the lens		etting Colum	abia
				etting. Colum on (AMDA); 2	
		conti			
Major Outcor	nes Conside	red			
• Continence					
Quality of	ife				
Side effect	s/complicati	ons of treat	ment		

PACI	American College of Physicians' Leading Internal Medicine, Improving Lives

SUMMARY OF THE AMERICAN COLLEGE OF PHYSICIANS GUIDELINE ON NONSURGICAL MANAGEMENT OF URINARY INCONTINENCE IN WOMEN

Disease/Condition	UI UI
Target Audience	Internists, family physicians, and other clinicians
Target Patient Population	Women with UI
Interventions Evaluated	Norpharmacologic: IPART, bladder training, vaginal cones, medical devices, continence services, and weight loss and physical activity Pharmacologic: Antimuscaniscis: Darlifension, Feuteroidine, oxylludynin, proprierine, solfensacin, toltenodrine, trospium By-Adminiscratice agonists. Mindegron and soldbegron Other: Dislocation and configer.
Outcomes Evaluated	Continence, improvement in UI, quality of life, and adverse effects
Benefits	Continence, ≥50% reduction in the frequency of UI episodes
Harms	Nonpharmacologic: Low risk for adverse effects Pharmacologic: The most commonly reported adverse effects included dry mouth, constipation, and biurred vision for antimiscarinics; nasopharyngits and gastrointestinal disorders were associated with the \$\beta_2\$-adrenoceptor agonist mirabegron mirabegron
Recommendations	Recommendation 1: ACP recommends find-time beatment with PAM in women with stees U.I. Grade: strong recommendation 2: ACP recommends bladder baining in women with suggesty U.I. Crade: strong recommendation, Recommendation 2: ACP recommends bladder baining in women with suggesty U.I. Crade: strong recommendation, Recommendation 2: ACP recommends plant with bladder baining in women with missed U.I. Crade: strong recommendation. Recommendation and Refression of the strong recommendation of the strong recommendation. Red Precommendation for the strong recommendation 8: ACP recommends before the strong recommendation 8: ACP recommends before the strong recommendation 8: ACP recommendation for the strong recommendation of the strong
High-Value Care	Ut is a common and important health care problem in women that is underreported and underdisprosect. Cincisars should take a detailed bettery and eak specific and sould be used to the contract of the contra
Clinical Considerations	Vulnerable populations include women agod -66 g, nursing home residents, and women receiving Medicare home care services At least one half of women with U. do not report the use to their physician. Pharmacologic treatment should be based on harms, because most drug; are similarly efficacious, identifying and managing conditions hat may cause U, but As a urisway treat infections; metabolic disorder; excess fluid intake, and impaired mental conditions, such as definium, are important. Clinicians should desertly whether patients are receivine medications that may cause or women UI.



Impact of fecal incontinence: Nursing Homes

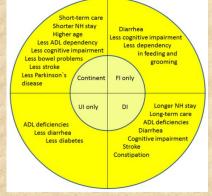
- Little privacy while defecating for 77%
- Immediate assistance after defecating was unavailable for 90%
- 100% could not clean themselves after defecating
- Few (13%) were provided information about causes and treatment of FI



Source: Akpan, Gosney & Barrett (2006). Wound, Ostomy and Continence Nursing

A Glass Half Full

Characteristics of continent residents and residents with FI only, UI only, and DI in Nursing Homes



Saga et al, in Neurourology and Urodynamics 34:362–367 (2015)

Hospitals: Patient Safety Initiative

Aim: Eliminate preventable patient harm

QUESTION: Is *iatrogenic incontinence* an unintended consequence of falls reduction programs or other well-meaning patient safety initiatives?

Risk factors for Inc Incontinence in F		
Risk Factor	OR(95% CI)	p-Value
Continence aids (reference: self-toile	ting)	
Urinary catheter	4.26 (1.53-11.83	.005
Adult diaper [sic]	2.62 (1.17-5.87)	.02
Activities of daily living at admiss Partially dependent Dependent	ion (reference: independe 2.96 (1.01–8.71) 3.27 (1.49–7.15)	.049
** Adjusted for age, cognitive statu	s, physical activity	
Source: Zisberg et al., JAGS, 2011.		

 11CU	Issues

Biomedical Ethical Principles:

Right to autonomy

Beneficence and non-maleficence

Justice

and newly proposed:

Dignity-enhancing Care:

Lived experience of older person and carer
Integrity, humility, privacy, historicity, singularity, and relationships

Source: Improving continence care for people with dementia living at home, Alzheimer Europe, 2014

United Nations: The Universal Declaration of Human Rights

PREAMBLE

Whereas recognition of the inherent **dignity** and of the equal and inalienable rights of all members of the human family is the foundation of freedom, justice and peace in the world, (continued)

Article 1.

All human beings are born free and equal in **dignity** and rights. They are endowed with reason and conscience and should act towards one another in a spirit of brotherhood.

Source: http://www.un.org/en/documents/udhr/

Attorney General Eric T. Schneiderman

ATTORNEY

A.G. Schneiderman Announces Arrest And Guilty Plea Of Erie County Nurse Aide For Taking And Exchanging Compromising Photograph Of Incontinent Patient Via Snapchat

Defendant Admits To Surreptitiously Photographing Patient In State Of Undress

NEW YORK – Attorney General Eric T. Schneiderman today announced the arrest of Edward J. Melock, a nurse aide in Erie County, for taking and exchanging a compromising photograph of an incontinent patient via the smartphone app Snapchat. Melock, who was employed at Greenfield Health and Rehabilitation Center in Lancaster, was accused of taking the photograph of an elderly patient in a state of undress on or about March 1, 2013, and sharing it via Snapchat.

http://www.ag.ny.gov/press-release/ag-schneiderman-announces-arrest-and-guilty-plea-erie-county-nurse-aide-taking-and

What Will Success Look Like?

- Preservation and promotion of function
- Preservation and promotion of quality of life
- Preservation and promotion of continence through:
 - Assessment
 - Treatment consistent with evidence and patient preferences
- Increase in knowledge, skills, and using evidencebased practices
- Increase in patient involvement in care planning

Need for Action for Continence Promotion

- Current and future needs of frail older persons will overwhelm the workforce and healthcare systems.
- Consumer preference and patient-centered care will create new demand for change in how care is provided to meet elimination needs.
- Continence is increasingly viewed as a *public* health issue with ethical implications.
- On-going carer education, clinical competency development, and supervision MUST be part of process.
- Essential elements for success: implementing successful change processes, partnerships, consumer engagement, development of evidence for interventions with patient participation.
- Patient safety and quality improvement complements continence promotion.

Palmer, M.H.

	Policy Co.	-		
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Create your value proposition for evidence-based continence care for all frail older persons.

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Systematic review of systematic reviews: Evidence synthesis of managing urinary incontinence in older people in care homes

Brenda Roe

Professor of Health Research, Evidence based Practice Research Centre, Faculty of Health & Social Care, Edge Hill University; Honorary Fellow, Personal Social Services Research Unit, University of Manchester, UK



Edge Hill University

Introduction

- Urinary incontinence is highly prevalent in older people in long term care settings; including nursing, residential or care homes and aged care facilities in the community
- The costs of managing incontinence in terms of staff time, resources, aids and appliances are high yet economic evaluations remain few
- There is limited but emerging evidence of effectiveness from systematic reviews of conservative / behavioural approaches for the management of urinary incontinence which form the main focus of nursing care.

Aim and methods

- To synthesise evidence from systematic reviews on the management of urinary incontinence and promotion of continence using conservative/behavioural approaches in older people in care homes to inform clinical practice, future guidelines and research
- A narrative synthesis was undertaken
- For the Review methods the PRISMA statement was followed, as were established methods for systematic review of systematic reviews

Results

- 5 systematic reviews of high quality were included.
- 3 specific to intervention studies and 2 reviewed descriptive/observational studies.
- Urinary incontinence was the primary outcome in 3 reviews with factors associated with the management of urinary incontinence the primary outcome for the other 2 reviews.

Review &	Aim (participants)
year	
Fink et al	To determine efficacy and safety of treatments for NH residents with UI
2008	
Roe et al 2011	To review published descriptive empirical (qualitative or quantitative) studies of care practices associated with management of UI, promotion or maintenance of continence in older people 65 years and above in CH with UI as the primary focus. Narrative synthesis. Parallel SR.
Flanagan et al 2012	To review published intervention studies for the management of UI, promotion or maintenance of continence in older people 65 years and above in CH with IU as primary focus. Narrative synthesis. Parallel SR.
Roe et al 2013	To review published descriptive empirical (qualitative or quantitative) studies of care practices & associated factors with management of UI, promotion or maintenance of continence in older people 65 years and above in CH with associated factors the primary focus. Narrative synthesis. Parallel SR.
Flanagan et al 2014	To review published intervention studies of associated factors with the management of UI, promotion or maintenance of continence in older people 65 years and above in CH. Narrative synthesis. Parallel SR.

Review & year	Number of studies included
Fink et al 2008	10; 8 behavioural interventions relevant to this review; 6 pharmacological interventions with 2 relevant to this review combined with behavioural interventions. Countries not specified. Total 10 relevant studies
Roe et al 2011	10 (1980-2005; 3 in 1980s,4 in 1990s, 3 in 2000s) 7 USA;1 England; 1 England, 1 (England, Wales & Northern Ireland; 1 international involving 7 countries
Flanagan et al 2012	33 (1980-2009; 5 in 1980s, 17 in 1990s, 11 in 2000s) 26 USA, 2 England, 1 each Netherlands, Turkey, Australia, Israel & Japan
Roe et al 2013	16 (1985-2008; 1 in 1980s, 6 in 1990s, 9 in 2000s). 12 USA, 3 England, 1 Canada
Flanagan et al 2014	9 (1984-2004; 3 in each decade 1980s, 1990s, 2000s). 7 USA, 2 UK (1 each for Scotland & Wales)
Totals	78 relevant studies in 5 reviews (of which 52 undertaken in the USA)
Adjusted Totals *	72 relevant studies with 52 (76%) in the USA

Review & year	Total number of care homes & participants
Fink et al 2008	Total number of homes not specified; 979 residents recruited/ 781 completed (872/697 behavioural studies; 107/84 behavioural plus pharmacological intervention)
Roe et al 2011	552 CH (range 3 – 378 per study; 2 studies not specified but comprised 7 national samples; 1study CH from 5 states in USA). 444,769 residents recruited/444,429 completed.
Flanagan et al 2012	196 CH (166 NH & 30 RH; range 1 - 30). 4333 residents recruited/2971 completed.
Roe et al 2013	1203 CH from 14 studies (range 2-841). 87,171 residents sampled/ 86,840 completed (range 6-77,337); 367 managers/staff (4 studies: range 33-166), 171 family members (1 study)
Flanagan et al 2014	33 CH (33 NH & 4 aged care). 708 residents recruited/701 completed.
Totals	1984 CH; 537,960 residents recruited/ 535,722 completed/data available plus 367 managers/care staff & 171 family members
Adjusted Totals *	1930 CH; 537,237 residents recruited/ 535,178 completed/ data available plus 367 managers/care staff & 171 family members

Review & year	Residents	Range of mean	Gender
	completed	age in years	
Fink et al 2008	781	73.9 to 88.6 –	635 (59%) women; 444 (41%) men,
		mean age reported	reported in 9 studies (7 behavioural
		in 9 studies	& 2 relevant combined behavioural
			and pharmacological)
Roe et al 2011	444,429	77 to 88.7 – mean	321,073 (72%) women; 122, 021
		age reported in 7 studies	(28%) men, reported in 7 studies
Flanagan et al	2971	78 to 91.3 – mean	2019 (77%) women; 615 (23%)
2012		age reported 31	men, reported in 26 studies
		studies	
Roe et al 2013	86,840	81.5 to 86.5 –	56,992 (66%) women; 29,848
		mean age reported	(34%) men, reported in 8 studies
		by 6 studies	
Flanagan et al	701	81.5 to 85.6 –	250 (72%) women; 99 (28%) men,
2014		mean age reported	reported in 4 studies
		by 6 studies	
Total	535,722	73.9 to 88.7	380,969 (71%) women; 153,027
			(29%) men, reported in 54 studies
Adjusted	535,178	73.9 to 88.7	380,684 (71%) women; 152,956
Totals*			(29%) men reported in 47 studies

Results and discussion

- Toileting programmes, in particular prompted voiding, with use of incontinence pads are the main conservative behavioural approach for the management of incontinence and promotion of continence in this population with evidence of effectiveness in the short term.
- •More intervention studies, predominantly trials, are available than descriptive observational studies.
- More recent studies are of higher methodological quality.

Results and discussion

- Few studies available on economic evaluations
- Studies maintaining continence in older people in care homes are lacking
- Evidence from associated factors; exercise, mobility, comorbidities, hydration, skin care, staff perspectives, policies and older people's experiences and preference are limited.

Results and discussion

- The majority of evidence of effectiveness are from studies from one country which may or may not be transferable to other care home populations
- Future studies that combine complex interventions using standardised outcomes and mixed methods with qualitative studies embedded including both implementation and economic evaluations are warranted. Studies should adhere to established international methodological and publication standards

Conclusion

- Nursing practice and values should reaffirm a focus on 'embodied' care, that is, meeting essential basic needs of older people in terms of mobility, elimination, nutrition, hydration and hygiene while preserving dignity. Involving older people as partners in compassionate care is paramount.
- Such approaches are essential for assuring quality of care when managing urinary incontinence and promoting continence in older people in care homes.

Thank you

Contact details:

Brenda Roe – Professor of Health Research, Faculty of Health & Social Care, Edge Hill University, UK. Email: roeb@edgehill.ac.uk

Roe B, Flanagan L, Maden M (2015) Systematic review of systematic reviews for the management of urinary incontinence and promotion of continence using conservative behavioural approaches in older people in care homes. JAN. Article first published online:

23 JAN 2015 | DOI: 10.1111/jan.12613



Treating Urinary Incontinence in Frail Community-dwelling Older Adults



Kristine Talley, PhD, GNP-BC, RN Assistant Professor

ICS 2015 Workshop Promoting an evidence-based approach to 'quality continence care for frail older adults



Objectives

At the end of this presentation, the learner should be

- Identify risk factors for developing urinary incontinence (UI) in community dwelling frail older adults
- · Evaluate the evidence on treating UI in community dwelling frail older adults
- · Create a model for studying incontinence
- · Identify future research needs on UI in community dwelling frail older adults

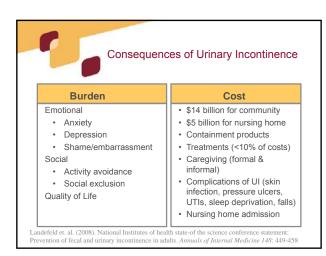


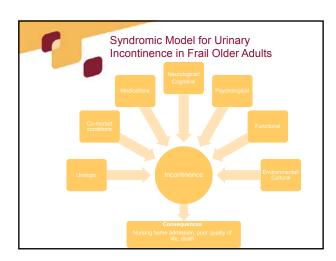
Definitions

- Urinary Incontinence
 "Involuntary loss of urine that is a social or hygienic problem" (Abrams et. al., 2010, p. 213).
- Frail elderly
 - rall elderly

 "People over the age of 65 with a clinical presentation or phenotype combining impairments in physical activity, mobility, balance, muscle strength, motor processing, cognition, nutrition, and endurance including feelings of fatigue and exhaustion" (Wagg et. al., 2014, p. 1)
- Functional Urinary Incontinence
 "The complaint of involuntary loss of urine that results from an inability to reach the toilet due to cognitive, functional, or mobility impairments in the presence of an intact lower urinary tract system" (Abrams et al., 2013, p. 364).

Prevalence of Urinary Incontinence in Adults Age 65+ by Setting during 2007-2010 Community dwelling 44% 55% 25% Residential care facility 40% 30% 40% 20% Home health & hospice 32% Nursing home short-stay 70% 74% 31% Nursing home long-stay 37% 37% 37% Gorina Y, Schappert S, Bercovitz A, et al. Prevalence of incontinence among older Americans. National Center for Health Statistics. Vital Health Stat 3(36). 2014.





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Urologic Contributors

Lower Urinary Tract Symptoms

- Urgency
- Frequency
- Weak pelvic floor muscles

Age Related Changes in **Urinary System**

- Urine output shifted later in the day
- Benign prostatic hypertrophy Atrophic vaginitis, urethritis, decreased urethral length, decreased maximal closure pressure
- Detrusor overactivity
- Decreased detrusor contractility
- (Modest) increase post void residual (PVR) Decreased total bladder capacity
- Decreased ability to postpone voiding



Factors Contributing to or Causing UI in Older Adults

Comorbid conditions

- DiabetesCongestive heart failure

- CONGESTIVE NEART Taillure
 COPD
 Degenerative joint disease
 Sleep apnea
 Severe constipation
 Prostate cancer
 Benign prostatic hypertropy
 Pelvic floor prolapse

Neurological

- Stroke
 Parkinson's disease
 Multiple Sclerosis
- Normal pressure hydrocephalus

Cognitive

- Dementia
 Impaired cognition

Psychological Depression

Function

- Impaired mobility
 Environment/Cultural
- Inaccessible toilets
 Lack of caregivers
 Belief that UI is an inevitable part of aging



Prevalence of BADL Disability in Community **Dwelling Older Adults**



Disability Definition	Women	Men
Any BADL disability	8.1-14.0	6.5-10.3
Moderate BADL disability	21.7	19.1
Severe BADL disability	6	6
Walking	27.3	18.6
Transferring	27.6	19.2
Dressing/hygiene	17.1	13.2
Toileting	?	?

ne, R.L., Talley, K.M.C., Shamilyan, T., and Pacala, J.T. (2011). Common Syndromes in Older Adults Related to Primary and condusp Prevention. Evidence Report Technology Assessment No. 87. AHRQ Publication No. 11-05157-EF-1. Rockville, MD. ency for Healthews Research and Quality, July 2011.



Medications that Can Cause or Worsen UI

- Alcohol
- α-Adrenergic agonists
- α-Adrenergic blockers
- ACE inhibitors
- Anticholinergics
- Calcium-channel blockers
- Cholinesterase inhibitors
- Antipsychotics
- Estrogen
- Gabapentin
- Loop diuretics
- Narcotic analgesics
- Non-steroidal anti-inflammatory drugs
- Sedative hypnotics
- Thiazolidinediones
- · Tricyclic antidepressants

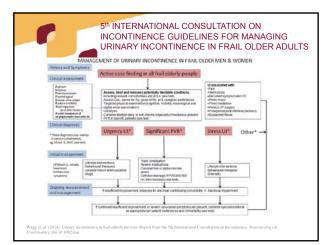


Tailoring UI Treatments for Diverse Frail **Populations**

- Treatments must accommodate resident characteristics &
- abilities

 Treatments should be multi-component, interdisciplinary, and person-centered

 Frail older adults without dementia have the potential to implement prevention programs targeting behavioral change, such as increasing physical activity and conservative treatments for urinary incontinence that do not require caregiver assistance





Caregiver Dependent Interventions

- Prompted voiding
- Habit training
- · Timed voiding
- Combined toileting and exercise therapy

What do we know about self-managed interventions?

Incontinence Treatments for	or Frail Older A	dults
Intervention by Population	Urinary Incontinence	Level of Evidence
HOMEBOUND		
Biofeedback assisted pelvic floor muscle exercises for 8 weeks (McDowell 1999)	75% improvement in daily episodes per diary	Level I
Home health care agency program of pelvic floor muscle exercise, habit training, biofeedback, relaxation exercises, diet modification, and bowel regimens for 4 weeks (Rose 1990)	78-79% improvement in weekly episodes per diary	Level II-3
Individualized bladder retraining, pelvic floor muscle exercises, education on adequate hydration and caffeine reduction for 3 months (Karon 2005)	79-80% improvement in daily episodes per diary	Level II-3
Comprehensive Geriatric Assessment: pelvic floor muscle exercises, bladder retraining, caffeine reduction, fluid consumption, prompted voiding, chronic disease management for 6 weeks. (Harrat 2009)	46% reported improvement	Level III
ADULT DAY CARE		
Tollet skills training for 8 weeks (Van houten 2007)	8-35% improvement in 24 hour pad test*	
COMMUNITY DWELLING FRAIL		
Oxybutynin 2.5 mg twice daily plus bladder retraining for 6 weeks (Szonyi 1995)	No improvement	Level I
ASSISTED LIVING & SENIOR APARTMENTS		Level I
1-hour group education with optional individualized treatment (Schirm 2004)	30-33% reported improvement	Level II-3
COMMUNITY DWELLING ELIGIBLE FOR NURSING HOME PLACEMENT		
Comprehensive Geriatric Assessment done in PACE** (Mukamel 2006)	Those treated by teams with high self rated effectiveness were 23% less likely to deteriorate in urinary incontinence	Level III

UNIVERSITY OF MINNESOTA S C H O O L O F NURSING	Design & Feasibility of a Randomized Controlled Trial to Treat UI in Frail Community Dwelling Older Women
5/29/2015	15



Defeating Urinary Incontinence with Exercise Training (DUET) Design & Setting

- 2 arm randomized controlled trial with treatment and no-treatment control group
- · Individuals randomized to groups
- Blinded data collector
- 5 Senior housing facilities with independent & assisted living apartments (3 low income & 2 normal income)



Target Population

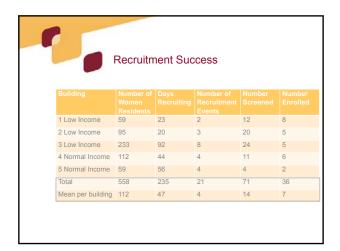
- Frail older women
- No Alzheimer's disease or dementia
- Able to engage in exercise
- Potential to benefit from self-managed behavioral strategies for improving urinary incontinence
- Not have urinary incontinence caused by a neurological disorder

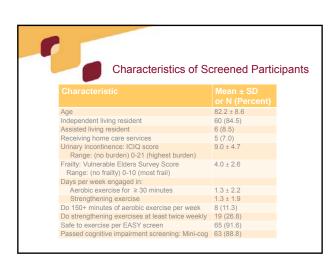


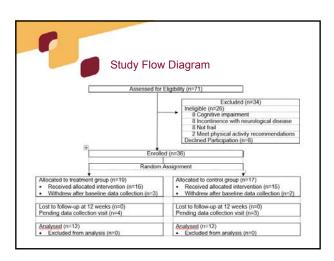


Intervention

- 12 week program, delivered by registered nurses and exercise instructor at the senior housing facility
- · Primary goal are to
 - Improving mobility, transferring, and disrobing skills needed for toileting
 - Reduce frequency & severity of urinary incontinence
- Components
 - Individualized risk assessments & treatment recommendations for incontinence and toileting barriers (everyone learned pelvic floor muscle exercises)
 - Twice weekly group exerciseDaily walking for exercise

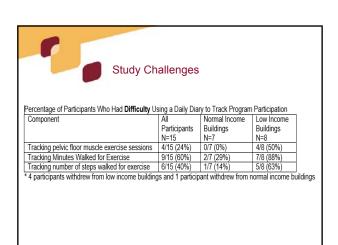






Characteristic	s N = 36
Age	84.2 ± 6.9
Independent living resident	32 (88.9)
Assisted living resident	2 (5.6)
Receiving home care services	2 (5.6)
Live in low income building	22 (61.1)
Urinary incontinence: ICIQ score Range: (no burden) 0-21 (highest burden)	8.4 ± 3.5
Frailty: Vulnerable Elders Survey Score Range: (no frailty) 0-10 (most frail)	4.0 ± 2.5

	Tre	eatn	Adherence (N = 17	
Component			N = 15 Subjects	
4 Nurse home visits			94%	
Average number of times participants did pelvic floor muscle exercises weekly (5 prescribed)				
Attend 24 exercise of	class	ses	61%	
150 minutes of weekly walking			Hard for women to track	
Percentage of	N	%		
0-24%	3	20		
25-50%	4	27		
50-74%	0	0		
75-100%	8	53		





Pilot Study Outcomes Mean ± SD (N=36)

	Treatment Group					1		
Characteristics	Baseline N=19	12 week follow-up N=14*	Difference Score N=12	Baseline N=17	12 week follow-up N=12**	Difference Score N=12**	,	p
Urinary incontinence severity (ICIQ) ^c	7.8 ± 3.3	6.1 ± 4.6	-2.6 ± 4.4°	9.0 ± 3.7	8.4 ± 4.1	-1.5 ± 3.4*	0.7	0.515
Urinary frequency via bladder diary	7.8 ± 2.8 (n=15)	6.0 ± 1.4 (n=10)	-0.9 ± 1.4* (N=10)	8.8 ± 2.8 (N=12)	7.7 ± 1.5 (n=9)	-0.3 ± 1.5° (N=9)	1.0	0.345
Urinary leakage via bladder diary	1.6 ± 2.2 (n=14)	0.8 ± 1.1 (N=9)	-0.7 ± 1.9* (N=9)	1.9 ± 2.0 (N=12)	1.9 ± 1.9 (N=9)	0.3 ± 0.8* (N=9)	1.5	0.166
Incontinence impact Questionnaire	48.7 ± 53.3	42.1 ± 74.8	-12.0 ± 24.3°	53.8 ± 62.4	57.4 ± 66.7	-1.2 ± 18.5*	1.2	0.249
Urinery Distress Inventory	57.9 ± 52.4	25.0 ± 32.8	-34.9 ± 42.8°	70.9 ± 40.9	33.4 ± 36.9	-37.5 ± 52.8°	0.2	0.85
Self-efficacy for Urinary Incontinence	65.2 ± 27.8	74.1 ± 36.6	9.6 ± 26.8°	59.2 ± 32.9	62.5 ± 22.1	2.4 ± 10.8 b	-0.8	0.414
Performance Oriented Timed Toileting Instrument	36.5 ± 20.0	31.1 ± 13.6	0.4 ± 8.3*	32.3 ± 13.4	34.5 ± 14.4	.6 ± 5.8*	07	0.942
Self-reported difficulty with toileting skills	3.0 ± 3.0	2.6 ± 2.7	-0.6 ± 1.2°	2.5 ± 2.1	3.5 ±3.2	0.5 ± 2.3°	1.5	0.15

*There were 2 withdrawals from the treatment group and 3 participants are pending 12 week data collection

"There were 3 withdrawals from the control group and 2 participants are pending 12 week data collection
""two sample t-test of difference score between treatment and control group

"Two sample t-test of difference score between treatment and control g

A negative difference score indicates improvement over 12 weeks

A negative difference score indicates improvement over 12 weeks

A positive difference score indicates improvement over 12 weeks



Conclusions

- Frail older women are willing to participate in urinary incontinence studies focused on behavioral treatments if provided in a convenient manner
- Adherence to pelvic floor muscle exercise prescription was very high
- Adherence to group exercise was higher than adherence for walking exercise
- Logging was challenging for many low income women, alternative strategies for tracking program adherence and urinary incontinence are needed
- Recruitment is challenging and requires multiple strategies and facilities



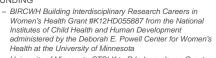
Future Research

- There is a lack of high quality evidence to prepare clinical guidelines for this population
- Multi-component interventions which include pelvic floor muscle exercises, bladder training, and other lifestyle changes show promise for improving urinary incontinence in frail older adults
- Future research should use a standardized definition of frailty, include consistent measures of continence, condition specific quality of life outcomes, and examine the effect of improved physical function on continence status



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Frailty in the primary and community setting: can integrated care support us growing old?

Sharon Eustice Nurse Consultant UK



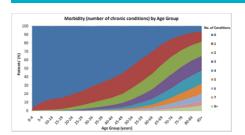
'Death is no longer an event, it is a long, drawn out process'

- Each day between 2011 and 2030, an average of 10,000 people will turn 65
- On average, death is now preceded by 10 years of chronic ill health and figure is rising
- Those aged over 100 years will grow from 10,000 now to 1 million by 2030



Quote accessed from http://www.guybrown.eu/livingend/livingend.htm in April 2015

Multimorbidity is the norm.....



The majority of over-65s have 2 or more conditions, and the majority of over-75s have 3 or more conditions

More people have 2 or more conditions than only have 1

Barnett et al (2012) Epidemiology of multimorbidity and implications for health care, research, and medical education: a cross-sectional study The Lancet, Volume 380, Issue 9836, Pages 37 - 43, 7 July 2012 doi:10.1016/S0140-6736(12)60240-2

Frailty is currently recognised......



Mrs Greenaway was found on the floor ("FLOF") with new confusion by the home care staff and taken to hospital where she was found to be poorly mobile. Lonely older adults have a 14% increased risk of dying early than their peers who have strong social ties.

Cacioppo et al 2014

The 4m walking speed test detects frailty

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predicts:

/ Disability

/ Long-term car

/ Falls

/ Mortality

Van Kan et al INNA 2009, 13 883 Systematic Review of 21 cohorts

A view of Mrs Greenaway.....



85 years
Lives alone
Recently in hospital following a fall
Broken hip 2011
Chronic heart failure = REVIEW ONE
Diabetes = REVIEW TWO
Chronic Kidney Disease = REVIEW THREE
Taking 10 medications = REVIEW FOUR

System designed to fragment care into packages

..... And the incontinence???

A global issue......http://www.frailty.net

The "FRAILTY.NET" website was launched in March 2014.

It is an international educational resource that aims to help geriatricians, primary care physicians and other health care professionals involved in the care of older persons implement frailty into clinical practice.

Recommendations for international policy

- Early identification of frail people through the use of a screener instrument
- Appropriate training in primary care (frailty & dementia)
- High quality assessment supporting the coordination of the health care professionals, to ensure continuity of care, for policy and research finalities.

FOD Volksgezondheid, Frailty Conference 18 June 2014, Brussels http://ec.europa.eu/health/ageing/events/ev_20140618_en.htm

Is there good evidence on integration?

- The literature search on integrated care 1997 to 2010 - nine articles met quality measures
- Two types of models of integrated care delivery for the frail elderly:
 - Smaller, community-based model that relied on cooperation across care providers, focused on home and community care, and played an active role in health and social care coordination.
 - Large-scale model that could be applied at a national/provincial/state, or large regional health authority, level, had a single administrative authority and a single budget, and included both home/community and residential services.



Beland & Hollander 2011

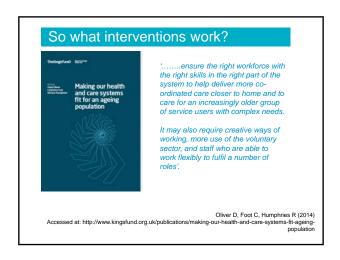
Why doesn't it work so far?

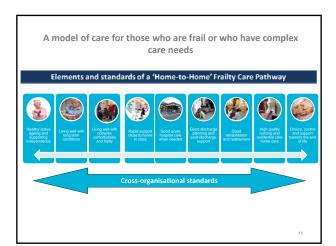
Three broad areas that need unblocking:

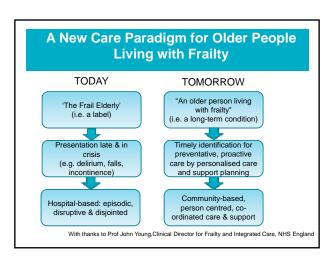
- Money
- Systems, structures and cultures
- Expectations and choice



Health Service Journal; 20 March 2015 (pages 23-27)







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Look after your feet
Look after your eyes
Make your home safe
Keep active
Medication review
Hearing tests
Preventing falls
Vaccinations
Keeping warm
Get ready for winter
Check out bladder problems
Mental wellbeing

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- •There are recognised indicators of frailty that can be detected in clinical practice
- •Screening tools can be used to detect frail older people
- •There are simple interventions which can be used to slow further deterioration in frail older people
- •Frailty can be managed in primary and community care with effective specialist support and integrated care

'Old age ain't no place for sissies'

Bette Davis



Notes