

# W26: ICS Core Curriculum (Free): Continence Care Nursing

Workshop Chair: Sandra Engberg, United States 30 August 2018 11:00 - 12:30

Start	End	Торіс	Speakers
11:00	11:05	Introduction to Workshop	Sandra Engberg
11:05	11:25	Cultural Aspects of continence care	Veronica Haggar
11:25	11:45	Advanced Practice Provider Taking Continence Practice Out of	Tamara Dickinson
		the Box	
11:45	12:15	Urodynamic Testing for the Advanced Practice Provider:	Mikel Gray
		Interpretation of Findings	
12:15	12:30	Questions	All

# Aims of Workshop

This workshop on the nursing management of incontinence will focus on the impact of cultural factors on management, incorporating continence care into advance practice nursing and urodynamic-informed incontinence management.

# **Learning Objectives**

1. Discuss culturally and ethnicity-informed continence care.

2. Discuss how advanced practice nurses can incorporate continence care in primary care and other non-continence specific settings.

3. Review elements of interpretation of urodynamic findings including indicators of good urodynamic practices as outlined by the International Continence Society.

# Learning Outcomes

After this course participants will be able to:

- 1. Discuss how cultural and ethnicity considerations should inform continence care.
- 2. Identify ways to incorporate continence care into non-continence advanced practice nursing settings.
- 3. Discuss the utilisation of urodynamic findings in the assessment and management of incontinence.

# **Target Audience**

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

# Advanced/Basic

Basic

# **Suggested Reading**

Kraus SR, Markland A, Chai TC, et al. (2007) Race and ethnicity do not contribute to differences in preoperative urinary incontinence severity or symptom bother in women who undergo stress incontinence surgery. Am J Obstet Gynecol 2007;197:92.e1-92.e6.;

Thom DH1, van den Eeden SK, Ragins AI, Wassel-Fyr C, Vittinghof E, Subak LL, Brown JS. (2006) Differences in prevalence of urinary incontinence by race/ethnicity. J. Urol. 2006 Jan;175(1):259-64.; Sange, C. et al (2008) Urinary incontinence in Muslim women. Nursing Times; 104, 25, 49–52.; Fulop, N; Jewkes, N; (1992) Background information. Health Serv J , 102 (5292) pp. 28-29.; Gray, M, Ratliff, C., & Mawyer, R. (2000). A brief history of advanced practice nursing and its implications for WOC advanced nursing practice. Journal Wound Ostomy and Continence Nursing, 27, 48-54.; Keilman, L.J., Dunn, K.S. (2010). Knowledge, attitudes, and perceptions of advanced practice nurses regarding urinary incontinence in older women. Research and Theory for Nursing Practice, 24,260-279. doi: 10.1891/1541-6577.24.4.260.; Lamin, E., Parrillo, L.M., Newman, D.K., Smith, A.L. (2016). Pelvic floor muscle training: Underutilization in the USA. Current Urology Reports, 17, 1-7. doi: 10.1007/s11934-015-0572-0.; Rozier PF, Schaefer W, Lose G, Goldman HB et al. International Continence Society Good Urodynamic Practices and Terms 2016: Urodynamics, uroflowmetry, cystometry, and pressure-flow study. Neurourology and Urodynamics 2016; 9999: 1-18, DOI: 10.1002/nau.23124.; Gray M. Traces: making sense of urodynamics testing--Part 5: evaluation of bladder filling/storage functions. Urologic Nursing 2011; 31(3):149-53.;

Gray M. Traces: making sense of urodynamics testing--Part 10: Evaluation of micturition via the voiding pressure-flow study. Urologic Nursing. 2012; 32(2):71-8.

# **Cultural Sensitivity in Continence Care**

Veronica Haggar MSc, BSc Hons, R Registered Nurse United Kingdom

As countries become increasingly multicultural it is important to look at how this impacts on our care of a patient with incontinence.

The sensitivities of the topic plus language barriers in immigrant culturally and linguistically diverse communities (CALD) may impose barriers to accessing help which would consequently result in lower numbers from these communities being seen by continence services. When seeing patients from CALD communities we must ensure that we practice cultural sensitivity and develop cultural competence that allows us to avoid stereotyping patients.

During this presentation we will discuss

- Culture what is it, how does it define us and how one person may identify themselves as from a number of different cultures
- Cultural Competence
- Ethnicity and the prevalence of Incontinence; very few studies have the used the same methodologies to allow prevalence to be compared across countries in any meaningful way. It is also unclear in studies that show any differences, as to whether the impact is due to the linguistic difference of the questionnaires or true differences. There does however appear to be difference in prevalence between ethnic groups, with white women experiencing significantly more incontinence than other groups (ICI 2017).
- The taboo nature of incontinence the difficulty in discussing it crosses all cultures but an inability to speak the language of the country in which patients are living will often result in them seeking out a General Practitioner or Family Doctor who speaks their language. For women if this person is male further barriers can result.
- Culture and religion, including religious festivals. Beliefs about cleanliness and interfering with the need to pray
- Health Promotion, the need to adapt information to fit with different diets and lifestyles.
- Practical issues toilets, washing, incontinence pads, carers, gender of healthcare professionals
- Interpretation or advocacy are they different, what is needed for the consultation and whether family members are appropriate to translate.
- Translation of patient information movement of community often results in the termination of education resulting in lower levels of literacy that can often be gender specific; consequently simple and plain language is required.
   Languages often don't have specific words for medical conditions requiring them to be described and resulting in a much longer leaflet.

I. Milsom, D. Altma, R. Cartwright, M.C. Lapitan, R. Nelson, S. Sjöström, K. Tikkinen. Epidemiology of Urinary Incontinence (UI) and Other Lower Urinary Tract Symptoms (LUTS), Pelvic Organ Prolapse (POP) and Anal (AI) Incontinence. In: Abrams P, Cardozo L, Wagg A, Wein A, Editors. Incontinence. 6th ed. Bristol: International Continence Society; 2017 p. 4-142

# Advanced Practice Provider Taking Continence Practice Out of the Box

Speaker: Tamara Dickinson, MSN, AGPC-NP, CURN, CCCN Nurse Practitioner United States

In healthcare today, there is a shifting focus towards primary prevention and this is no different in the field of continence care and promotion. It is known in continence care that there is a certain taboo surrounding the topic. Continence promotion should be of particular concern given the global aging population (WHO, 2016) and well established epidemiological statistics. Primary prevention models involve education to raise awareness, interventions, creating embedded change and measuring the outcomes (Palmer, 2002). Unfortunately, only some countries governments provide support and funding for continence care much less promotion and primary prevention. It is important to educate primary care providers about the myth that incontinence is a normal part of aging. This is supported by qualitative data that the general public has a narrow view of the topic making public awareness key in primary prevention and promotion. Advocacy, education and interventions need to be sensitive to culture, diversity in socioeconomic means and access to care.

With the aging population will come more comorbidities and higher healthcare costs. A project in the Netherlands has shown some evidence that creating a program utilizing advanced practice nurses with specialized continence training to help care for community dwelling elders benefited healthcare and societal costs (Franken et al, 2018). The program also resulted in improvement in comorbid conditions, urinary incontinence and overall quality of life (Franken et al, 2018). Another program in the United Kingdom evaluated a holistic integrated service for men diagnosed with prostate cancer (Lamb et al, 2017). A comprehensive service structure was developed by a multi-disciplinary panel that included categories of environment and patient pathways (Lamb et al, 2017). The program incorporated a quality focus team approach and patient centered care largely

led by the specialist advanced practice nurse (Lamb et al, 2017). It is well documented that advanced practice nurse utilization improves patient satisfaction.

As a highly trained specialized nurse in the field, then trained as an adult geriatric primary care provider I took continence care and promotion out of the usual box of the urologic or urogynecology practice. I will discuss my role as a genitourinary nurse practitioner in the radiation oncology department a large tertiary university medical center in Dallas, Texas.

#### References

- Abrams, P., Cardozo, L., Wagg, A., & Wein, A. (Eds.). (2017). *Incontinence* (6th ed.). : International Consultation onf Incontinence, Tokyo September 2016.
- Franken, M. G., Ramos, I. C., Los, J., & Al, M. J. (2018). The increasing importance of continence nurse specialist to improve outcomes and save costs of urinary incontinence: An analysis of future policy scenarios. *BMC Family Practice*, 19. https://doi.org/10.1186/s12875-018-0714-9
- Health promotion and disease prevention through population-based interventions, including action to address social determinants and health inequity. (WHO). Retrieved from http://www.emro.who.int/about-who/public-health-function/health-promotion-disease-prevention.html
- Lamb, A. D., Thompson, S., Kinsella, N., Gerbitz, I., Chapman, E., Putt, L., ... Kastner, C. (2017). Aiming for holistic integrated service for men diagnosed with prostate cancer: Definitions of standards and skill sets for nurses and allied health professionals. *European Journal of Oncology Nursing*, *29*, 31-28.

# <u>Urodynamic Testing for the Continence Nurse: Interpretation of Findings</u> Mikel Gray, PhD, FNP, PNP CUNP, CCCN, FAANP, FAAN Nurse Practitioner United States

Urodynamics is a set of tests deigned to measure storage and emptying of the lower urinary tract. The most commonly performed tests are the filling cystometrogram that measures bladder filling/storage function, along with nonintubated uroflowmetry and a voiding pressure flow study that combines uroflowmetry with intravesical, abdominal and detrusor pressures to evaluation bladder emptying. Supplemental examinations include pelvic floor muscle electromyography (EMG) and urethral pressure profilometry. These tests are typically performed together in a step-wise evaluation commonly referred to as multichannel urodynamic testing. The purpose of this lecture is to describe best practices for measuring pressure, flow and EMG during urodynamic testing, and to apply this knowledge to interpretation of urodynamic findings and their application to clinical decision making for the continence nurse engaging in specialty or advanced practice.

Measurement of pressures, flow and EMG will be described based on nomenclature for the ICS Committee on Standardization of Terminology of Lower Urinary Tract Function and the Good Urodynamic Practices and Terms 2016. Emphasis will be placed on quality control during urodynamic testing, accurate differentiation of abdominal and detrusor events from physiologic or technical artifacts and characteristics of high quality urodynamic testing. For example, measurement of pressures will emphasize zeroing with respect to atmosphere, establishing a reference level based on ICS standards, and use of the test cough as a quick quality test for accuracy of pressure measurements. Similarly, measurement of uroflow will focus on proper placement of the uroflow transducer and distance from the collecting funnel, provision of privacy during nonintubated flow pattern, and use of flow rate nomograms.

Interpretation of urodynamic findings usually occurs in one of 2 settings; ongoing or interactive interpretation during testing, or evaluation of findings following testing. This lecture will emphasize the importance of a structured approach to interpretation of urodynamic findings to describe the 2 phases of bladder function (storage/filling and evacuation). Specifically, I will describe interactive interpretation based on answers to 5 broad outcomes used to evaluate bladder storage/filling: cystometric capacity, bladder wall compliance, competence of the urethral sphincter mechanism, sensations of bladder filling, and the detrusor response to bladder filling. Interpretation of bladder emptying will focus on 3 board questions, characteristics of the flow pattern, detrusor muscle contraction strength, and urethral resistance (including the EMG response to micturition).

Application of urodynamic findings to clinical decision making will focus on the relationship between lower urinary tract symptoms, physical signs used to verify and quantify lower urinary tract symptoms, and their relation with urodynamic observations made during multichannel testing. Case studies will be used to illustrate these relationships and their application to evidence-based management. Case examples will include pure stress incontinence in an adult female, mixed stress and urge incontinence in an adult female, overactive bladder dysfunction in an adult male with bladder outlet obstruction and prostate enlargement, and underactive bladder function with incomplete bladder function in an adult male. Case presentations will be used to encourage discussion and present options for managing these prevalent lower urinary tract disorders.



Veronica Haggar	PHILADELPHIA
Affiliations to disclose <sup>+</sup> :	
No Disclosures	
* All financial ties [over the last year] that you may have with any business organisation with respect to the subjects monitored during you presentation Funding for speaker to attend:	
Self-funded	
× Institution (non-industry) funded	
Sponsored by:	

























Tamara Dickinson	OPHILADELPHIA
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# Urodynamic Testing for the Advanced Practice Provider: Interpretation of Findings Mikel, PhD, PNP, FNP, CUNP, CCCN, FAANP, FAAN

Professor Department of Urology, School of Medicine Department of Acute & Specialty Care, School of Nursing University of Virginia Charlottesville, VA







# 1









Indications for Urodynamic testing	PHILADELPHIA	Interpretation of UDS	S ICS 20 PHILAC
As an Advanced Practice Provider you may be urodynamic testing for selected individuals an clinical guidelines based on area of world whe	ordering d be aware of ere you	My experience strongly sugg UDS study as it proceeds is sup tasks in a specific order; others	gests that interactive interpretation of berior to routine performance of rigid s support this approach
<ul> <li>practice</li> <li>International Consultation on Incontinence International Continence Society</li> <li>AUA/ SUFU Clinical Guideline</li> <li>European Association for Urology</li> <li>Society of Obstetrics and Gynecologists of the society</li> </ul>	/ Canada	<ul> <li>Alternatively, interpretation themselves (rather than merel with analysis of their quality ar the patient's history, physical a</li> <li>As continence nurses, we sh bladder storage/filling and blad urodynamic testing can measu</li> </ul>	relies on scrutiny of the traces y reading a written report) combined nd veracity given other findings from ssessment, and other diagnostic tests ould be familiar with basic concepts o dder emptying/micturition that rre
		1. Gray 2. Rovn	(M. Urologic Nursing 2011; 31 (3):149. ner ES. Koski ME. Rapid and practical interpretation of urodynamics. New York: Springer,

OPHILADELPHIA

#### Interpretation of Bladder Storage Function OPHILADELPHIA (Filling Cystometrogram) • What is the cystometric capacity?

- Low (inflammation) infection, detrusor overactivity, low compliance)
   High (diabetes mellitus, chronic alcohol abuse, behavioral, other denervation)
   Mot is bladder well • What is bladder wall compliance?
- What is bladder wall compliance?
   Normal (300-600 m, usually higher than functional capacity)
   Low (inflammation/ infection, detrusor overactivity, low compliance)
   What is the detrusor response to bladder filling?
   Normal (no contractions or subclinical/ filling contractions)
   Overactive (involuntary contractions with urgency and/or leakage)
   What sensations are reported during bladder filling?
- Normal, increased (urgency with fear of leakage vs nociceptive urgency), reduced or absent
- alsent Is the urethral sphincter mechanism competent? Competence = no urodynamic stress UI Incompetence = urodynamic stress UI
  - Gray M. Urologic Nursing 2011; 31 (3): 149













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Continuous/ normal flow + low detrusor pressure	Prolonged/ low or intermittent flow + low	Prolonged or intermittent flow + high detrusor
= NORMAL	= Underactive detrusor	= Obstruction









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miparesis, HTN,





53 year old femal recent onset of en	e with urge incontinence and nuresis	PHILADELPHIA
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Urodynamic References	PHILADELPHIA
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Thaker R, Toozs-Hobson P, Dolan L. Urodynamics Ill Univ RCOG Press, 2011.	ustrated. Cambridge
Chapple CR, MacDiramid CA, Patel A. Urodynamics Elseveir, Edinburugh, 2009.	mad easy, Churchill-