


Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass



Catheter-associated urinary tract infection prevention in the continuum of acute care

An initiative of the
NSW CLINICAL EXCELLENCE COMMISSION

Jan Gralton
BSc, PhD

Hosted by Jane Barnett
jane@webbertraining.com

www.webbertraining.com **March 29, 2017**

Disclosure

- No longer with the CEC
- Direct questions: CEC-HAI@health.nsw.gov.au


Acknowledgements

- Dr Paul Curtis, Director of Clinical Governance (CEC)
- 2013/14 and 2014/2015 CAUTI project reference groups
- NSW pilot sites
- NSW Pathology
- Health Education Training Institute
- eHealth
- State Forms Committee



Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass


The NSW situation



NSW

- Population: 7.64 million
- Capital: Sydney
- Land size: 809,444 km²
(3x UK)
- 19 Local Health Districts/
Networks
- 220 facilities
- 1.84M admissions/year

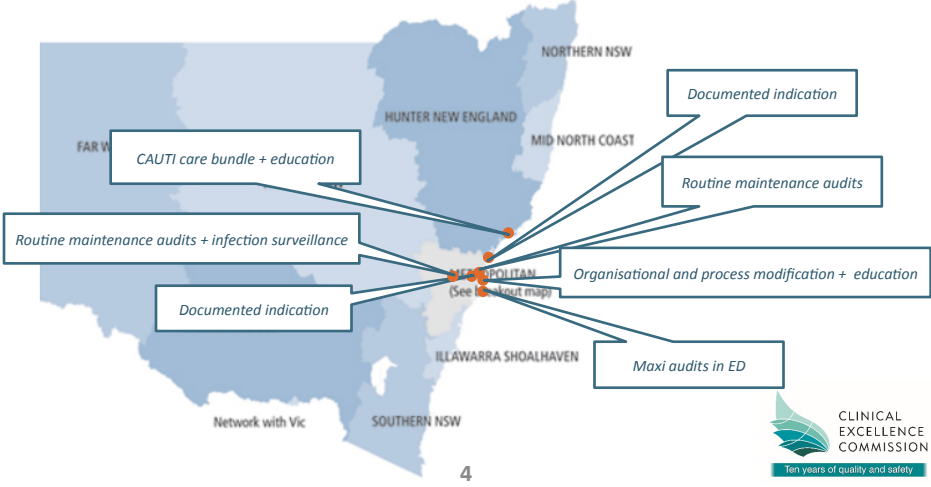
3




The NSW situation

Pre 2014

8/220 hospitals with dedicated acute care CAUTIs projects



4



Hosted by Jane Barnett jane@webbertraining.com
www.webbertraining.com

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass

But is CAUTIs even a problem in acute care?

- Mitchell et al, 2016:
 - Prevalence of HAUTIs in Australia is 1.73%
 - Increased LOS by 4 days
 - Reduced rate of discharge
- 0.9% of all acute admissions are affected by a CAUTI
 - 66.7% of HAUTIs are CAUTIs

Types of HAUTIs	Prevalence
Asymptomatic bacteriuria	29%
Cystitis	26%
Pyelonephritis	21%
Urosepsis	12%

References:

Mitchell BG, Ferguson JK, Anderson M, Sear J, Barnett A. Length of stay and mortality associated with healthcare-associated urinary tract infections: a multi-state model. *Journal of Hospital Infection.* 2016;93(1):92-9.
 Bjerklund Johansen, T. E., M. Cek, K. Naber, L. Stratchounski, M. V. Svendsen and P. Tenke. "Prevalence of Hospital-Acquired Urinary Tract Infections in Urology Departments." *European Urology* 51(4). (2007): 1100-1112.



What does that mean in terms of patient numbers?

Breakdown	%	Number
Number of acute admissions in NSW 2014/15		1, 840, 632
Estimated number of HAUTIs	1.73	31, 843
Estimated number of HAUTIs that are CAUTIs	66.7	21, 239
Estimated number of CAUTIs progressing to urosepsis	12	<u>2,549</u>

2, 549 NSW patients get a CAUTI that leads to urosepsis
 =
49 patients a week
 =
7 patients per day



Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass

The NSW situation

- **Unknown burden**
 - Not a clinical indicator
 - Clinical coding unreliable
 - IMS data, not reported
- **Impetus to improve**
 - National Safety and Quality Health Service Standards:
 - 3.9: *Implement protocols for invasive device procedures regularly performed with the organisation*
 - 3.10: *Developing and implementing protocols for aseptic technique*
 - Anecdotal evidence from scoping visits

7



What the literature says

- Unnecessary catheterisation
- Extraluminal contamination - breaches in asepsis
 - ↳ Insertion
 - ↳ Maintenance
 - ↳ Specimen collection
- Intraluminal contamination - unnecessary dwell time
 - ↳ Catheter biofilm 48 hrs post insertion

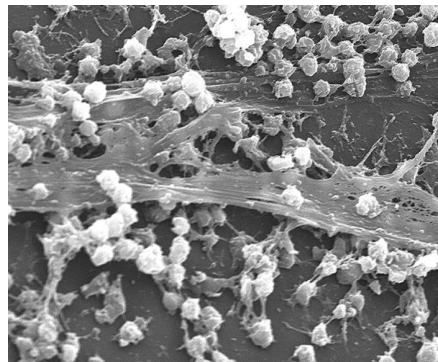


Photo: Janice Carr, CDC (Public Health Image Library)

Reference: Jacobsen, S. M., D. J. Stickler, H. L. T. Mobley, et al. (2008). "Complicated Catheter-Associated Urinary Tract Infections Due to *Escherichia coli* and *Proteus mirabilis*." [Clinical Microbiology Reviews](#) **21**(1): 26-59.

8



Hosted by Jane Barnett jane@webbertraining.com
www.webbertraining.com

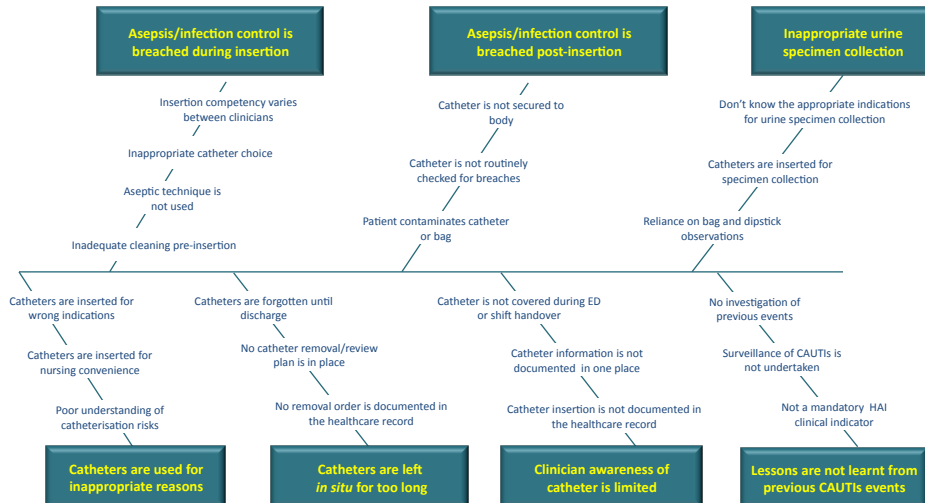
Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass

What we were told

- **“If a patient has incontinence, you catheterise.”**
 - convenience
 - unsure of appropriate indications for catheterisation and alternatives
- **“We only have Foleys in stock.”**
 - unsure of catheterisation alternatives
 - systemic lack of support for best practice
- **“I didn’t know how long it had been in for.”**
 - not prioritised in clinical communication
 - lack of awareness of insertion date and indication for insertion
 - medical orders direct removal
- **“Do I take off my gloves first ?”**
 - sequencing of aseptic technique
 - inappropriate specimen collection and poor collection technique
 - placement of drainage device



Why do patients get CAUTIs in acute care?




Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass

BASIC PRINCIPLES FOR URINARY CATHETER INSERTION AND MANAGEMENT IN ACUTE CARE

- 1 Check if an indwelling catheter is clinically indicated
- 2 Insert the catheter using aseptic technique
- 3 Document catheter insertion and indication
- 4 Maintain asepsis and closed system while the catheter is in place
- 5 Only collect urine specimens for culture if clinically indicated
- 6 Remove the catheter as soon as it is no longer needed
- 7 Review CAUTIs incidents

11




CLINICAL EXCELLENCE COMMISSION
Ten years of quality and safety

1 Check if an indwelling catheter is clinically indicated

Is catheterisation actually indicated?

- Up to 56% of catheterisations are not indicated
- Inappropriate urinary catheterisations cause a CAUTI, longer catheter dwell times and longer and more costly hospitalisation
- “Appropriate” and “Inappropriate” varies between individual clinicians, clinical teams, units and facilities

12




CLINICAL EXCELLENCE COMMISSION
Ten years of quality and safety


Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass

1
Check if an indwelling catheter is clinically indicated

What are the right indications for catheterisation?



- Until recently, no universal list of indications
- CDC and EAUN guidelines → lack widespread adoption
- Other guidelines also available → inconsistent recommendations




13

1
Check if an indwelling catheter is clinically indicated

4 STEPS OF DECISION MAKING FOR APPROPRIATE URINARY CATHETER INSERTION
- ADULT ACUTE CARE SETTINGS -

STEP 1: CHECK FOR AN APPROPRIATE INDICATION FOR CATHETERISATION* ↓	STEP 2: CHOOSE MOST APPROPRIATE CATHETER OPTION ↓			STEP 3: CONFIRM CHOICE USING ADDITIONAL GUIDANCE ↓
	Sterile intermittent 'in/out'	Sterile short term indwelling IDC	Suprapubic (SPC)	
A. Urinary retention or obstruction <small>(pre insertion bladder scan is recommended)</small> • Neurogenic or mechanical retention • Medication associated retention • Urinary obstruction • Failed trial of void	✓✓✓	✓✓	✓	• If medication-related retention is identified, review medications. • If an in/out catheter is inserted, ensure patient review prior to discharge. • Consider an IDC if urine volume > 500mL is observed on bladder scan or if patient has lower abdominal pain. • If urine volume > 1L is observed on bladder scan, seek further advice from a senior clinician. • Consider using a 3-way IDC.
B. Clot retention		✓✓✓		• Do not insert catheter if bleeding from the urethral meatus is observed or pelvic fractures is suspected. Seek further advice from a senior clinician.
C. Monitoring for: • Depress • Trauma • Electrolytes • Renal function		✓✓✓	✓✓	• If unable to insert an IDC, consider a SPC.
D. Acute injury or surgery management • Localised injury or surgery (e.g. bladder, pelvis, lower abdomen, genitourinary tract) • Non-localised injury or surgery (e.g. cerebral, orthopaedic or spinal associated immobility) • Pre or postoperative bladder emptying		✓✓✓	✓✓	• If unable to insert an IDC, consider a SPC. • For post-surgery management, consider early IDC removal or using an in/out catheter. • Do not insert catheter if bleeding from the urethral meatus is observed or pelvic fractures is suspected. Seek further advice from a senior clinician.
E. Treatment & Investigation • Diagnostic investigations • Initiation of intravesical medications • Urine specimen collection for culture • Post-void residual urine volume assessment if bladder scanner is unavailable or inadequate and more detail than suprapubic fullness is required	✓✓✓	✓✓		• If patient becomes distressed, cease procedure and seek further advice from a senior clinician. • Catheterisation for urine specimen collection only should be considered if a clean mid-stream urine (MSU) specimen cannot be obtained.
F. Management of urinary incontinence • Perineal, sacral or inguinal wound care • End-of-life comfort • If patient is also receiving chemotherapy		✓✓✓	✓✓	• Catheterisation only should be considered if there is no other option available. • Consider an external sheath/condom catheter for male patients. • Consider using incontinence pads or external sheath/urodome to contain colostomy waste. Refer to local waste management policy for guidance.
G. Urogenital or bladder management • Fistula • Hematuria		✓✓✓	✓✓	• If unable to insert an IDC, consider a SPC.
H. Labour & delivery management • Forcep or vacuum assisted delivery • Epidural block • Labour/post labour retention or obstruction • Caesarean delivery • Management and prevention of postpartum haemorrhage • Birth-related injury		✓✓✓		• For forcep or vacuum assisted delivery, consider an in/out catheter.
* If indication is not listed, catheter insertion is not appropriate. ** Due to injury, obstruction or urogenital atrophy	STEP 4: RETURN TO STEP 1 IF CONTRAINDICATION FOR OPTION IS LISTED BELOW ↓			✓✓✓ BEST CHOICE ✓✓ SECOND CHOICE ✓ THIRD CHOICE IDC: Indwelling urinary catheter, also known as an IUC SPC: Suprapubic catheter
STEP 4: RETURN TO STEP 1 IF CONTRAINDICATION FOR OPTION IS LISTED BELOW ↓	Sterile intermittent 'in/out' • Urethral stricture • Urethral orifice cannot be identified or accessed** • Renal impairment where continuous drainage is required • Known or suspected urethral trauma • Bleeding from the urethral meatus • Thrombotic therapy for stroke	Sterile short term indwelling IDC • Urethral stricture • Urethral orifice cannot be identified or accessed** • Urethral reconstruction • Known or suspected urethral trauma • Bleeding from the urethral meatus • Acute prostatitis	Suprapubic (SPC) • Unable to distend bladder • Unable to identify bladder location • Known/suspected bladder carcinoma • Ascites • Pelvic or lower abdominal surgery • Obagiparity • Morbid obesity	SEEK FURTHER ADVICE FROM A SENIOR CLINICIAN BEFORE INSERTION IF YOU ARE UNSURE OF WHICH CATHETER TO USE



Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass

Appropriate indications for insertion

Pilot testing @ 7 sites

Finding 1: Inappropriate catheter insertions are occurring less frequently

Catheter use significantly decreased (2 sites)
Number of catheterised patients did not increase, despite significant increases in patient numbers (2 sites)

Finding 2: Documentation of catheter insertion is getting better

Catheter use significantly increased (2 sites) (breakout map)
Number of catheterised patients increased significantly (1 site)

Finding 3: Nothing changed

2 sites
Validated that catheter insertion was not a problem

15


1

Check if an indwelling catheter is clinically indicated

Formal reliability testing

- 3 emergency departments, n= 50
- Staff who used the tool made more appropriate catheter selections
- Staff who used the tool made more appropriate catheter choices in scenarios that required more complex, multi-step decision making processes (Cohen's d = 0.88)
- Less variation in the catheter selections if using the tool.

16

 CLINICAL EXCELLENCE COMMISSION
Ten years of quality and safety

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care

Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia

A Webber Training Teleclass

1 Check if an indwelling catheter is clinically indicated

Annals of Internal Medicine SUPPLEMENT

The Ann Arbor Criteria for Appropriate Urinary Catheter Use in Hospitalized Medical Patients: Results Obtained by Using the RAND/UCLA Appropriateness Method

Janet Meddings, MD, Miles Saint S, MD, MPH, Karen E. Fowler, MPH, Elissa Gaies, MD, MPH, Andrew Hickner, MD, Sarah L. Krein, PhD, and Steven J. Bortolin, MD, MPH


Introduction: To reduce urinary catheter use, several lists of "appropriate" indications developed from limited evidence without substantial multidisciplinary input. Implementing these lists, however, is challenging given broad interpretation of indications, such as "clinical direct." To refine criteria for appropriate catheter use defined as use in which benefits outweigh risks, the RAND/UCLA Appropriateness Method was applied. After reviewing the literature, a 15-member multidisciplinary panel of physicians, nurses, and specialists in infection prevention rated scenarios for catheter use as appropriate, inappropriate, or of uncertain appropriateness by using a standardized, multiround rating process. The appropriateness of Foley catheters, intermittent straight catheters (ISC), and external condom catheters for hospitalized adult medical units was assessed. 79 scenarios, including urinary incontinence, incontinence, wounds, urine volume measurement, urine culture collection, and comfort. The scenarios included patient-specific issues, such as difficulty turn-

ing and catheter placement challenges. The panel rated 105 Foley catheters (41 appropriate, 40 inappropriate, 24 uncertain), 97 ISC scenarios (15 appropriate, 46 inappropriate, 16 uncertain), and 57 external condom catheter scenarios (33 appropriate, 11 in appropriate, 14 uncertain). The refined criteria clarify that Foley catheters are appropriate for measuring and collecting urine only when fluid status or urine cannot be assessed by other means; specific indications for the intensive care unit (ICU) include specific medical indications for catheters because ICU location allows a high rate of appropriate indications, and recognizes that Foley and external catheters may be pragmatically appropriate to manage urinary incontinence in select patients. These new appropriateness criteria can inform large-scale collaborative and bedside efforts to reduce inappropriate urinary catheter use.

Ann Intern Med. 2015;162(5):S34-S44. doi:10.1093/ajcp.124
For author affiliation, see end of text.

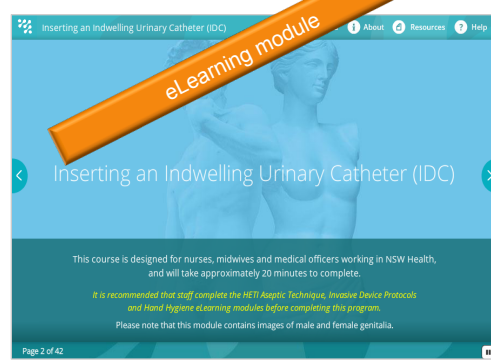
The Ann Arbor Criteria

Meddings J, Saint S, Fowler KE, Gaies E, Hickner A, Krein SL, et al. The Ann Arbor Criteria for Appropriate Urinary Catheter Use in Hospitalized Medical Patients: Results Obtained by Using the RAND/UCLA Appropriateness Method. 162. 2015;9 Suppl(S1-S34). <https://www.ncbi.nlm.nih.gov/pubmed/25938928>



Ten years of quality and safety

2 Insert the catheter using aseptic technique



Inserting an Indwelling Urinary Catheter (IDC)

This course is designed for nurses, midwives and medical officers working in NSW Health, and will take approximately 20 minutes to complete.

It is recommended that staff complete the HETI Aseptic Technique, Invasive Device Protocols and Hand Hygiene eLearning modules before completing this program.

Please note that this module contains images of male and female genitalia.

REDUCING CATHETER ASSOCIATED URINARY TRACT INFECTIONS

URETHRAL CATHETER INSERTION COMPETENCY - ACUTE CARE

Urethral Catheter Insertion Competency - Adult Acute Care

Name of participant: _____ Payroll number: _____ Designation: _____

To achieve competency the assessor, CNE or designated resource personnel must:

- examine and observe each relevant knowledge criteria (Part I) as correct.
- observe the correct performance of each performance criteria (Part II).

Underpinning knowledge and understanding:

- Works within scope of practice
- NSW Health Policy: Work Health and Safety - Better Practice Procedures (issue date: 16 December 2013, PD2013_030)
- NSW Health Policy: Infection Control policy (issue date: 23 May 2007, PD2007_036)
- NSW Health Policy: Hand hygiene policy (issue date: 13 September 2010, PD2010_038)
- NSW Health Guideline: Adult urethral catheterisation for acute care settings (issue date: 15 December 2015, GL2015_016)

Pre-requisites:

- Completed HETI online Invasive Device Module
- Completed HETI online Aseptic Technique Module
- Completed HETI online Hand Hygiene Module
- Completed HETI online Waste Management Module
- Has read relevant local guidelines related to urethral catheter insertion
- Prior practical training in urethral catheterisation

Assessment outcome

Result of the assessment (tick the appropriate result) Competent Not yet

Assessor's feedback:


Details of feedback from participant:

Action/further training required (including timeframe):

Reassessment must be completed:

Assessor's signature: _____ Date: _____

Participant signature: _____ Date: _____



Ten years of quality and safety

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care

Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia

A Webber Training Teleclass

2

Insert the catheter using aseptic technique

PART I: Knowledge criteria	Comments	Tick where appropriate	
		Completed	Not yet completed
<p>1. Can correctly identify appropriate indications for urinary catheterisation</p> <p>Appropriate indications</p> <ul style="list-style-type: none"> Management of urinary retention or obstruction Clot retention associated with gross haematuria Monitoring for sepsis, trauma, renal function, electrolyte or fluid balance Injury or surgery affecting urinary function and/or involving immobility (including injury, surgery or disease affecting the spinal cord) Investigation, diagnostic or treatment (including bladder irrigation or instillation) Urinary incontinence management associated with wound care, end-of-life care or chemotherapy, if other options available adversely affect patient's comfort Urogenital or bladder management (e.g. management of fistula or haematuria) Labour and birth management <p>Inappropriate indications</p> <ul style="list-style-type: none"> As a substitute for the nursing care of a patient with urinary incontinence, obesity, confusion, dementia or other reasons For a patient requiring bed rest or with decreased mobility that has no other clinical need for catheterisation For monitoring urinary output when the patient is able to void voluntarily or once the clinical need is no longer warranted For prolonged post-operative duration in the absence of an appropriate clinical indication for ongoing catheterisation 			
<p>2. Can correctly identify the appropriate urethral catheter option</p> <ul style="list-style-type: none"> Selects appropriate catheter type (sterile intermittent in/out catheter or indwelling urinary catheter) for clinical indication and clinical presentation Selects the smallest catheter size that will allow adequate access and drainage for clinical indication and clinical presentation 			
<p>3. Reviews clinical procedure safety prior to procedure</p> <ul style="list-style-type: none"> Confirms patient identification Confirms that the patient requires urinary catheterisation Checks for any allergic/adverse reactions and other relevant medical or surgical history (e.g. latex or lignocaine allergy, previous urology history, autonomic dysreflexia risk) Considers the planned procedure, critical steps and risk factors, anticipated events and equipment requirements (e.g. is pain relief required? Is aggressive or non-cooperative behaviour anticipated) Considers whether a two person buddy system should be used during the procedure 			

19



2

Insert the catheter using aseptic technique

PART I: Knowledge criteria	Comments	Tick where appropriate	
		Completed	Not yet completed
<p>1. Car</p> <ul style="list-style-type: none"> Appr Ma Ca IM the Im Ur aw Li La <p>inapp</p> <ul style="list-style-type: none"> As re Fi wa Fi 	<p>PART II: Performance criteria</p> <p>Tick O for each sub-task that was adequately completed</p> <p>1. Procedure is explained to the patient and consent is obtained</p> <ul style="list-style-type: none"> Hand hygiene on entry into the patient zone Verbal consent should be obtained from patient or person responsible Optional step for male catheterisation: Urethral meatus is cleaned, hand hygiene is performed, lignocaine is correctly inserted into penis, hand hygiene is performed <p>2. Equipment is assembled on trolley</p> <ul style="list-style-type: none"> Trolley is cleaned Hand hygiene is performed Equipment and PPE gathered Receptacle for rubbish is nearby Hand hygiene performed <p>3. Bed and patient are positioned correctly</p> <ul style="list-style-type: none"> Patient privacy is maintained Patient in a supine position Female catheterisation: Knees are to be flexed and separated and feet flat on the bed, about 60cm apart Adequate lighting is available Protective sheet is placed under patient <p>4. If there is a catheter already in situ, catheter is removed</p> <ul style="list-style-type: none"> Hand hygiene is performed Non-sterile gloves, eye protection and apron/gown is donned Balloon is passively deflated with 10mL syringe Catheter is removed and discarded Gloves are removed and hand hygiene is performed 		
<p>2. Car</p> <ul style="list-style-type: none"> Se ins Se pn <p>3. Rev</p> <ul style="list-style-type: none"> Co Cr all Co In Co 			

20



Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care

Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia

A Webber Training Teleclass

2

Insert the catheter using aseptic technique

PART I: Knowledge criteria		Comments	Tick where appropriate	
			Completed	Not yet completed
1. Car Appr • M • C • M Inq th • Im • Ur av • Ur • La	PART II: Performance criteria Tick O for each sub-task that was adequately completed	Comments	Tick where appropriate	
	1. Procedure is explained to the patient and consent is obtained		Completed	Not yet completed
Inapp • As re • Fo • Fo wa Fo	2. Equipm o TI o H o E o R o H	PART II: Performance criteria Tick O for each sub-task that was adequately completed	Tick where appropriate	
	5. The aseptic field is assembled correctly		Completed	Not yet completed
	6. PPE is donned in the correct order		Completed	Not yet completed
2. Car • Se ins • Se pn	3. Bed an o PR o PI o FI o AI o PI	7. Equipment is prepared correctly	Tick where appropriate	
	8. Urethral meatus is cleaned correctly		Completed	Not yet completed
3. Rev • C • C all • C • C	4. If there o H o NI o BI o C o G		Tick where appropriate	



21

2

Insert the catheter using aseptic technique

PART I: Knowledge criteria		Comments	Tick where appropriate	
			Completed	Not yet completed
1. Car Appr • M • C • M Inq th • Im • Ur av • Ur • La	PART II: Performance criteria Tick O for each sub-task that was adequately completed	Comments	Tick where appropriate	
	1. Procedure is explained to the patient and consent is obtained		Completed	Not yet completed
Inapp • As re • Fo • Fo wa Fo	2. Equipm o TI o H o E o R o H	PART II: Performance criteria Tick O for each sub-task that was adequately completed	Tick where appropriate	
	5. The aseptic field is assembled correctly		Completed	Not yet completed
2. Car • Se ins • Se pn	3. Bed an o PR o PI o FI o AI o PI	7. Equipment	Tick where appropriate	
	8. Urethral meatus is cleaned correctly		Completed	Not yet completed
3. Rev • C • C all • C • C	4. If there o H o NI o BI o C o G	9. Catheter is inserted correctly	Tick where appropriate	
	10. Catheter is connected and secured		Completed	Not yet completed
	11. Waste is disposed of appropriately and in accordance with local waste policy		Completed	Not yet completed



22

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass

3

Document catheter insertion and indication

URINARY CATHETER RECORD	
Reason for Catheterisation:	
Catheter Type: <input type="checkbox"/> IDC <input type="checkbox"/> SPC	Insertion Date: _____
Catheter Size: _____ FG	Date Change Due: _____
Catheter Length: <input type="checkbox"/> M <input type="checkbox"/> F	Date Removed: _____
Anaesthetic Gel Used: <input type="checkbox"/> Yes <input type="checkbox"/> No	Autonomic Dysreflexia Risk <input type="checkbox"/> Yes <input type="checkbox"/> No
Amount of H ₂ O in Balloon: _____	On Removal: <input type="checkbox"/> Yes <input type="checkbox"/> No
Volume of Urine Drained: _____	
CSU Obtained: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Difficulty On Insertion: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Describe Difficulty: _____	
Print Name: _____	Designation: _____
Signature: _____	

INDWELLING URINARY CATHETER INSERTION RECORD – ACUTE CARE	
Patient Name: <i>Ana Samson</i>	MRN: <i>306 943 22</i>
Reason for catheterisation: <i>#NOI, inserted pre-operatively</i>	
Insertion date: <i>13 / 02 / 2016</i>	Volume of urine drained: <i>198</i> mL
Insertion time: <i>21:15</i>	CSU collected: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Catheter: <input checked="" type="checkbox"/> IDC <input type="checkbox"/> SPC	Catheter secured (Tick 1 only): <input checked="" type="checkbox"/> Thigh <input type="checkbox"/> Other, describe: _____
Catheter size: _____ Fr	Drainage system (Tick 1 only): <input checked="" type="checkbox"/> Bag, describe: <i>leg bag</i> <input type="checkbox"/> Valve
Anaesthetic gel used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Lubricant used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
H ₂ O in balloon: <i>7.2</i> mL	<input type="checkbox"/> N/A
Difficulty/abnormality observed on insertion: _____	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
If Yes, describe: <i>Difficulty finding orifice, inserted on second attempt.</i>	
Planned catheter review (removal date) (circle required option): <i>15 / 02 / 16</i>	
Inserted by: <i>Christina Peron</i>	Signature: <i>Christina Peron</i>
Designation: <i>CNS</i>	Unit: <i>Emergency</i>



25



3

Document catheter insertion and indication

REDUCING CATHETER ASSOCIATED URINARY TRACT INFECTIONS

Using eMR2 to improve catheter practice in adult acute care settings

CLINICAL EXCELLENCE COMMISSION
2015

- MODULE 1**
Dipstick results
- MODULE 2**
Catheter insertion
- MODULE 3**
Automatically triggering a medical review of the catheter
- MODULE 4**
Recording catheter care and maintenance for short term, long term and suprapubic catheters
- MODULE 5**
Recording catheter removal

26



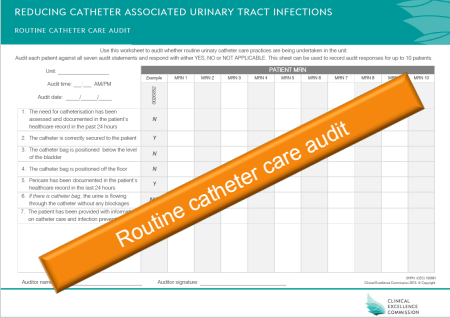
Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care

Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia

A Webber Training Teleclass

4

Maintain asepsis and closed system while the catheter is in place



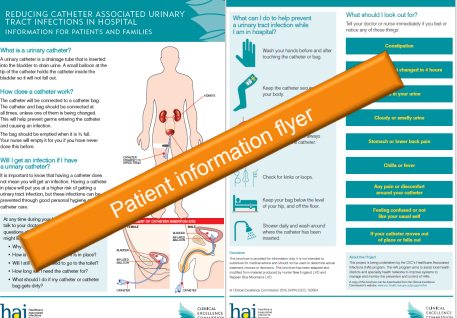
REDUCING CATHETER ASSOCIATED URINARY TRACT INFECTIONS
ROUTINE CATHETER CARE AUDIT

Use this worksheet to audit whether routine urinary catheter care practices are being undertaken in the unit. Audit each patient against all seven audit statements and respond with either YES, NO or NOT APPLICABLE. This sheet can be used to record audit responses for up to 10 patients.

Unit: _____
Audit time: ____ AM/PM
Audit date: ____/____/____

	PATIENT MRN										
	Example	MRN 1	MRN 2	MRN 3	MRN 4	MRN 5	MRN 6	MRN 7	MRN 8	MRN 9	MRN 10
1. The need for catheterisation has been assessed and documented in the patient's healthcare record in the past 24 hours	N										
2. The catheter is correctly secured to the patient	Y										
3. The catheter bag is positioned below the level of the bladder	N										
4. The catheter bag is positioned off the floor	N										
5. Pericare has been documented in the patient's healthcare record in the last 24 hours	Y										
6. If there is catheter bag, the urine is flowing through the catheter without any blockages	N/A										
7. The patient has been provided with information on catheter care and infection prevention	Y										
Comments											

Auditor name: _____ Auditor signature: _____



REDUCING CATHETER ASSOCIATED URINARY TRACT INFECTIONS IN HOSPITAL
INFORMATION FOR PATIENTS AND FAMILIES

What is a urinary catheter?
A urinary catheter is a drainage tube that is inserted into the bladder. A catheter is at the tip of the catheter tube the catheter inside the bladder will not fall out.

How does a catheter work?
The catheter will be connected to a catheter bag. The catheter bag has a special one-way valve that allows urine to flow from the bladder into the bag. This will stop germs entering the catheter and causing an infection. The bag should be emptied when it is 2/3 full. You should empty the bag if you have never done this before.

What type of infection is it?
It is a bacterial infection. If you have a urinary catheter, you are more likely to get an infection. Having a catheter in the bladder can also cause an infection in the kidneys. If you have an infection, you will need antibiotics. If you have an infection, you will need to stop the catheter as soon as possible.


Why do I need a catheter?
I may need a catheter if I am unable to go to the toilet. I may need a catheter if I have a urinary tract infection. I may need a catheter if I have a kidney infection. I may need a catheter if I have a urinary tract infection.

What should I do if my catheter or catheter bag gets blocked?
If you have a catheter, you should check it regularly. If you have a catheter, you should check it regularly. If you have a catheter, you should check it regularly.

What should I look out for?
If you notice any of the following, you should tell your doctor or nurse immediately if you feel or notice any of these things:

- Redness or swelling at the site of the catheter
- Change in the colour of the urine
- Cloudy or smelly urine
- Urine in the bag
- Urine in the bag
- Urine in the bag
- Urine in the bag
- Urine in the bag

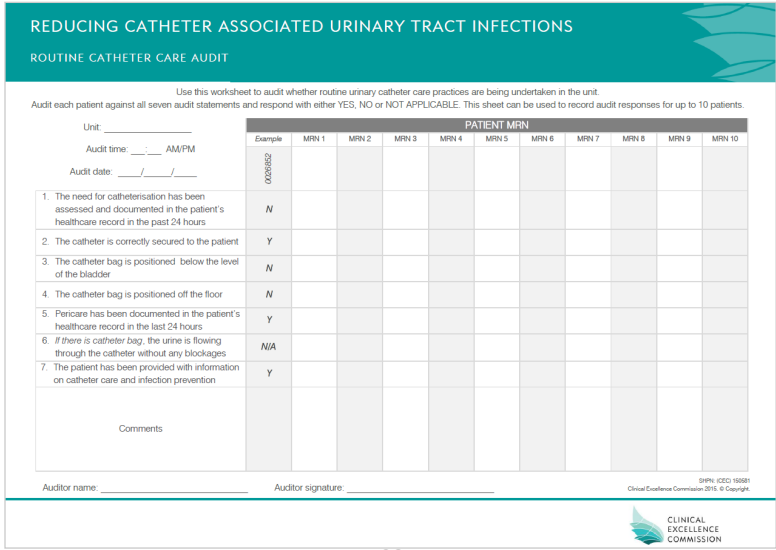
27



CLINICAL EXCELLENCE COMMISSION
Ten years of quality and safety

4

Maintain asepsis and closed system while the catheter is in place



REDUCING CATHETER ASSOCIATED URINARY TRACT INFECTIONS
ROUTINE CATHETER CARE AUDIT


Use this worksheet to audit whether routine urinary catheter care practices are being undertaken in the unit. Audit each patient against all seven audit statements and respond with either YES, NO or NOT APPLICABLE. This sheet can be used to record audit responses for up to 10 patients.

Unit: _____
Audit time: ____ AM/PM
Audit date: ____/____/____

	PATIENT MRN										
	Example	MRN 1	MRN 2	MRN 3	MRN 4	MRN 5	MRN 6	MRN 7	MRN 8	MRN 9	MRN 10
1. The need for catheterisation has been assessed and documented in the patient's healthcare record in the past 24 hours	N										
2. The catheter is correctly secured to the patient	Y										
3. The catheter bag is positioned below the level of the bladder	N										
4. The catheter bag is positioned off the floor	N										
5. Pericare has been documented in the patient's healthcare record in the last 24 hours	Y										
6. If there is catheter bag, the urine is flowing through the catheter without any blockages	N/A										
7. The patient has been provided with information on catheter care and infection prevention	Y										
Comments											

Auditor name: _____ Auditor signature: _____

28



CLINICAL EXCELLENCE COMMISSION

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
 Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
 A Webber Training Teleclass

4

Maintain asepsis and closed system while the catheter is in place

Children's Hospitals'
 Solutions for
Patient Safety
 Every patient. Every day.

MAINTENANCE

Bundle Element	Care Descriptions
STANDARD ELEMENTS	
Maintain a closed drainage system	<ul style="list-style-type: none"> If breaks in aseptic technique, disconnection, or leakage occur, replace the catheter and collecting system using aseptic technique and sterile equipment
Maintain hygiene	<ul style="list-style-type: none"> Perform perineal hygiene at minimum daily
Keep bag below level of bladder	<ul style="list-style-type: none"> Do not rest bag on floor [CDC Reference]
Maintain unobstructed flow	<ul style="list-style-type: none"> Keep the catheter and collecting tube free from kinking
Remove catheter when no longer needed	<ul style="list-style-type: none"> Review necessity daily Document indication daily
RECOMMENDED ELEMENTS	
Secure catheter	<ul style="list-style-type: none"> No details

Source: Rachel Bowes, Solutions for Patient Safety http://www.solutionsforpatientsafety.org/wp-content/uploads/CA-UTI_PediatricWebinar_Public.pdf

29

4

Maintain asepsis and closed system while the catheter is in place

Children's Hospitals'
 Solutions for
Patient Safety
 Every patient. Every day.

Bundle Reliability >=90%

CAUTI Reduction

Source: Rachel Bowes, Solutions for Patient Safety http://www.solutionsforpatientsafety.org/wp-content/uploads/CA-UTI_PediatricWebinar_Public.pdf

30

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care

Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia

A Webber Training Teleclass

4
Maintain asepsis and closed system while the catheter is in place

REDUCING CATHETER ASSOCIATED URINARY TRACT INFECTIONS IN HOSPITAL
INFORMATION FOR PATIENTS AND FAMILIES

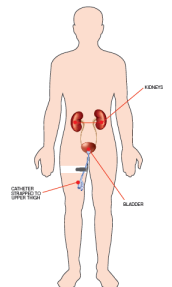
What is a urinary catheter?
A urinary catheter is a drainage tube that is inserted into the bladder to drain urine. A small balloon at the tip of the catheter holds the catheter inside the bladder so it will not fall out.

How does a catheter work?
The catheter will be connected to a catheter bag. The catheter and bag should be connected at all times, unless one of them is being changed. This will help prevent germs entering the catheter and causing an infection.
The bag should be emptied when it is 1/2 full. Your nurse will empty it for you if you have never done this before.

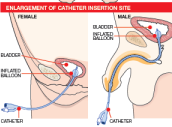
Will I get an infection if I have a urinary catheter?
It is important to know that having a catheter does not mean you will get an infection. Having a catheter in place will put you at a higher risk of getting a urinary tract infection, but these infections can be prevented through good personal hygiene and catheter care.

At any time during your hospital stay, you can talk to your doctor or nurse if you have any questions about your catheter. Questions you might like to ask may include:

- Why do I need a catheter?
- How is it going to feel when it is in place?
- Will I still feel like I need to go to the toilet?
- How long will I need the catheter for?
- What should I do if my catheter or catheter bag gets dirty?



ENVIRONMENT OF CATHETER INSERTION SITE



hai
CLINICAL EXCELLENCE COMMISSION

What can I do to help prevent a urinary tract infection while I am in hospital?

- Wash your hands before and after touching the catheter or bag.
- Keep the catheter secured to your body.
- Make sure the bag is always connected to the catheter.
- Check for kinks or loops.
- Keep your bag below the level of your hip, and off the floor.
- Shower daily and wash around where the catheter has been inserted.

What should I look out for?
Tell your doctor or nurse immediately if you feel or notice any of these things:

- Constipation
- Urine level has not changed in 4 hours
- Blood in your urine
- Cloudy or smelly urine
- Stomach or lower back pain
- Chills or fever
- Any pain or discomfort around your catheter
- Feeling confused or not like your usual self
- If your catheter moves out of place or falls out

Disclaimer: This brochure is provided for information only. It is not intended to substitute for medical advice and should not be used to determine actual treatment choices or decisions. This brochure has been adapted and modified from material produced by Hunter New England LHD and Regional Blue Mountains LHD.


About this Project: This project is being undertaken by the CEO's Healthcare Associated Infections (HAI) program. The HAI program aims to assist local health districts and specialty health networks to improve systems to manage and monitor the prevention and control of HAI. A copy of this brochure can be downloaded from the Clinical Excellence Commission website: www.hai.com.au

hai
CLINICAL EXCELLENCE COMMISSION

31

4
Maintain asepsis and closed system while the catheter is in place

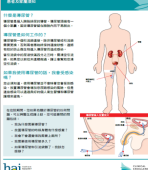
العنوان: معلومات عن الكاتيتري البولي يوريثان في المستشفى



hai

Arabic

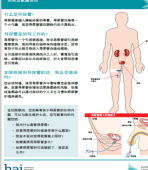
減少留置尿管相關泌尿道感染



hai

Traditional Chinese

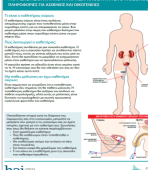
减少留置尿管相关泌尿道感染



hai

Simplified Chinese


ΜΕΤΡΗΣΗ ΠΡΟΦΥΛΑΞΗΣ ΤΗΣ ΚΑΤΗΓΟΡΙΑΣ ΟΥΡΟΛΟΓΙΚΩΝ ΛΟΙΜΩΣΕΩΝ (CAUTI) ΚΑΤΑ ΤΗΝ ΠΡΟΣΤΑΣΙΑ ΤΗΣ ΑΣΕΠΣΗΣ ΚΑΙ ΤΗΣ ΚΛΕΙΣΤΗΣ ΣΥΣΤΗΜΑΤΟΣ ΚΑΤΗΓΟΡΙΑΣ ΟΥΡΟΛΟΓΙΚΩΝ ΛΟΙΜΩΣΕΩΝ (CAUTI) ΚΑΤΑ ΤΗΝ ΠΡΟΣΤΑΣΙΑ ΤΗΣ ΑΣΕΠΣΗΣ ΚΑΙ ΤΗΣ ΚΛΕΙΣΤΗΣ ΣΥΣΤΗΜΑΤΟΣ



hai

Greek

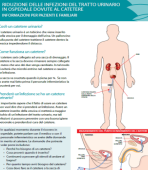
कैथीटर से जुड़ी पेशाब की नली में संक्रमण को कम करने के तरीके



hai

Hindi


Riduzione delle infezioni delle vie urinarie associate al catetere (CAUTI) durante la prevenzione dell'asepsi e della chiusura del sistema



hai

Italian

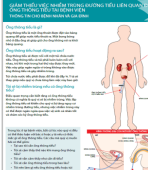
尿管 관련 요로 감염 예방을 위한 폐쇄 시스템 유지



hai

Korean

Giảm nguy cơ nhiễm trùng đường tiết niệu liên quan đến catheter (CAUTI) trong việc duy trì hệ thống kín và vô khuẩn



hai

Vietnamese

32

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass

5

Only collect urine specimens for culture
if clinically indicated

Implications of unnecessary specimen collection/culture

- Patient level:
 - o Detection of asymptomatic bacteriuria → antimicrobial treatment.
 - o Manipulation of closed system → extraluminal contamination → CAUTI
- System level:
 - o Unnecessary pathology waste.

33

Advice on unnecessary laboratory testing



1

Do not perform surveillance urine cultures or treat bacteriuria in elderly patients in the absence of symptoms or signs of infection

Asymptomatic bacteriuria is a common finding in all ages and in association with other comorbidities. Treatment of asymptomatic bacteriuria is recommended in pregnancy but not in other clinical situations. Prophylaxis against development of symptoms prior to simple cystoscopy and prosthetic joint replacement is not recommended. Extensive guidelines from the Infectious Diseases Society of America (IDSA) are available for this condition and asymptomatic bacteriuria in catheterised patients. The use of chemical screening strips in asymptomatic patients may lead to unnecessary urine cultures when positive results are obtained. Increasing antibiotic resistance in urinary pathogens may be a consequence of unnecessary treatment.

Source: <http://www.choosingwisely.org.au/getmedia/aa012d60-e6d2-4246-a897-e762370578ad/RCPA-Choosing-Wisely-recommendations.pdf.aspx>

34



Hosted by Jane Barnett jane@webbertraining.com
www.webbertraining.com

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care

Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia


A Webber Training Teleclass



Choosing Wisely
An initiative of the ABIM Foundation

Advice on unnecessary laboratory testing

Society of General Internal Medicine



Don't perform routine pre-operative testing before low-risk surgical procedures.

Pre-operative assessment is expected before all surgical procedures. This assessment includes an appropriately directed and sufficiently comprehensive history and physical examination, and, in some cases, properly includes laboratory and other testing to help direct management and assess surgical risk. However, pre-operative testing for low-risk surgical procedures (such as cataract extraction) results in unnecessary delays and adds to significant avoidable costs and should be eliminated.

American Society for Clinical Pathology



Avoid routine preoperative testing for low risk surgeries without a clinical indication.


Most preoperative tests (typically a complete blood count, Prothrombin Time and Partial Prothromboplastin Time, basic metabolic panel and urinalysis) performed on elective surgical patients are normal. Findings influence management in under 3% of patients tested. In almost all cases, no adverse outcomes are observed when clinically stable patients undergo elective surgery, irrespective of whether an abnormal test is identified. Preoperative testing is appropriate in symptomatic patients and those with risk factors for which diagnostic testing can provide clarification of patient surgical risk.

Critical Care Societies Collaborative - Critical Care



Don't order diagnostic tests at regular intervals (such as every day), but rather in response to specific clinical questions.

Many diagnostic studies (including chest radiographs, arterial blood gases, blood chemistries and counts and electrocardiograms) are ordered at regular intervals (e.g., daily). Compared with a practice of ordering tests only to help answer clinical questions, or when doing so will affect management, the routine ordering of tests increases health care costs, does not benefit patients and may in fact harm them. Potential harms include anemia due to unnecessary phlebotomy, which may necessitate risky and costly transfusion, and the aggressive work-up of incidental and non-pathological results found on routine studies.



CLINICAL EXCELLENCE COMMISSION
Ten years of quality and safety

Source: <http://www.choosingwisely.org/>


35

In 1993, only 24% of CSUs collected were because of UTI signs and symptoms!

Table I. Indications for requesting microbiological examination of urines

		Sister nurse		Staff nurse		Student nurse		Enrolled nurse	
		Yes	No	Yes	No	Yes	No	Yes	No
Reasons for requesting test on CSU	✗ Routine daily	0	20	1	47	1	17	0	20
	✗ Routine weekly	2	19	6	42	3	16	8	14
	✗ Smelly	19	4	46	7	17	2	27	1
	✗ Cloudy	21	5	37	14	16	2	26	2
	✗ Frequency	4	17	7	36	4	11	11	10
	✓ Symptoms	23	2	43	7	17	1	23	3
	✗ Post catheterization	10	9	25	27	12	6	14	10
✗ Catheter tip	3	14	2	45	4	15	8	12	

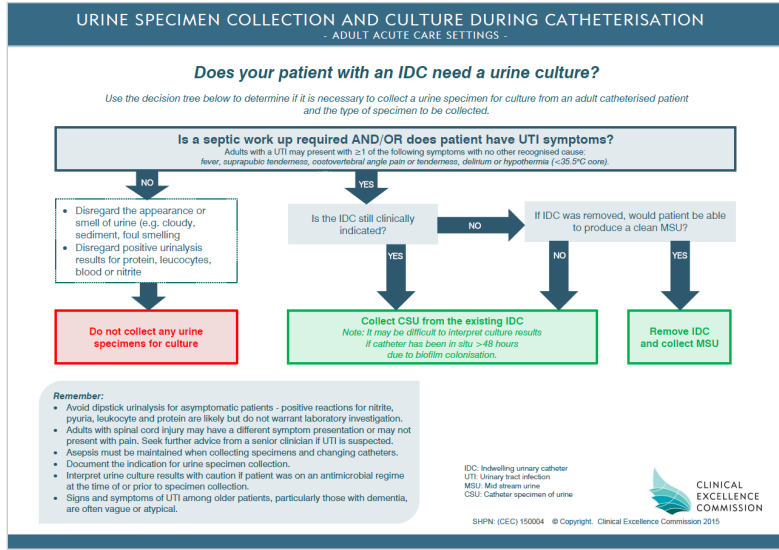
Source: Rao, G.G. et al. Journal of Hospital Infection, 1993, 25: p. 219-22.



36

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass

5 Only collect urine specimens for culture if clinically indicated



37

Appropriate urine specimen collection

Pilot testing @ 4 sites

Finding 1: Nothing changed

3 sites (ICU, ED, Ortho)

Validated that existing approach to specimen collection was good

Finding 2: Significant reduction in CSU and total urine specimen collection

1 site (Geriatric)

Finding 3: Significant reduction in catheter days and catheter use

1 site (Geriatric)

Gralton, J., Boston, B., Cook, C. Thomas, K., Taylor, P., Kizny Gordon, A., Smerdely, P., Hughes, G., Louey, M. Curtis, P. Improving the appropriateness of urine specimen collection. *Infection, Disease and Health*. In Press

38

Hosted by Jane Barnett jane@webbertraining.com
 www.webbertraining.com

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass

6

**Remove the catheter
as soon as it is no longer needed**

Source Meddings, J., et al., *Reducing unnecessary urinary catheter use and other strategies to prevent catheter-associated urinary tract infections: an integrative review.* *BMJ Quality & Safety*. 2013. 0: p. 1-13.

39

6

**Remove the catheter
as soon as it is no longer needed**

Unaware catheter is in place

- Not documented
- Not handed over

Unaware of indication for catheterisation

- Incomplete documentation/handover
- Reluctance

Attending MO is not available to order removal

- Unpredictable rounding
- Timing for TOV

No removal order

- Incomplete documentation

40

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass


Criteria led urinary catheter removal protocol

Evidence based - nurse led removal protocols

- Alexaitis et al, 2014: Catheterisation length ↓ 2.5 days
CAUTI rate ↓ 20.5%
Cost of CAUTIs ↓ 40.7%
- Parry et al, 2013: Catheter use ↓ 50%
CAUTI incidence ↓ 70%
- Gotelli et al, 2008: Catheter use ↓ 7%

References:
Alexaitis, I. and B. Broome (2014). *Implementation of a nurse-driven protocol to prevent catheter-associated urinary tract infections*. Journal of Nursing Care Quality **29**(3): 245-252.
Parry, M. F., B. Grant and M. Sestovic (2013). *Successful reduction in catheter-associated urinary tract infections: Focus on nurse-directed catheter removal*. American Journal of Infection Control **41**: 1178-1181.
Gotelli, J. M., P. Merryman, C. Carr, et al. (2008). *A quality improvement project to reduce the complications associated with indwelling urinary catheters*. Urology Nursing **28**(6): 465-467.

41



CLINICAL EXCELLENCE COMMISSION
Ten years of quality and safety

Criteria led urinary catheter removal protocol

Overall aim is to reduce duration of unnecessary catheterisation


- Reduce number of catheters days
- Reduce incidence of CAUTIs

Advantages

- No reliance on documented removal order
- Respects existing orders
- Links into trial of void
- Provides escalation pathways
- Reduces burden on attending medical officer

↳ Can be driven by other MOs or nursing staff (e.g. JMO removal round)

42



CLINICAL EXCELLENCE COMMISSION
Ten years of quality and safety

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care

Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia

A Webber Training Teleclass

Appropriate indications for insertion

Pilot testing @ 8 sites (1 lost to follow up)

Finding 1: Significant reduction in catheter days

Catheter use significantly decreased, implying reduced dwell times (4 sites)

Finding 2: Number of CAUTIs reduced

1 site
METROPOLITAN (See breakout map)

Finding 3: Nothing changed

3 sites
Validated that timely catheter removal was not a problem

Network with Vic SOUTHERN NSW

43

7

Review CAUTIs incidents

CAUTIs INVESTIGATION WORKSHEET

ADULT ACUTE CARE SETTINGS

Use this worksheet to identify the modifiable risk factors that contribute to the acquisition of a CAUTI. This investigation should be led by the local infection and prevention control unit and the support requested from other services (medical records, pharmacy, pathology, conference). Findings from this investigation should be reported back to the unit and feeding team involved.

Patient Name	Patient UIN#	Risk Indicator	Feeding medical officer	ICU/Other location

Action & Who is responsible for it (catheter)	Ward/room	Admission to unit	First catheter insertion	UTI response first documented	Collection of first positive urine culture	CAUTI response confirmed	First catheter removal
Date							
Hospital Unit							

SECTION 1 - RISK FACTORS (mandatory for all catheters)

1. Has the type and condition been appropriate for catheter use? YES NO
2. Has there any recent history of any other catheter or infection? YES NO
3. Has there any acute/chronic conditions or any history of UTI? YES NO
4. Did the patient have any wounds, ulcers or burns? YES NO
5. Did the patient have any recent falls or injury? YES NO
6. Has the patient had any surgery in the last 30 days? YES NO
7. Was the patient on an antibiotic therapy prior to insertion of CAUTI? YES NO
8. Was the catheter inserted aseptically? YES NO

SECTION 2 - RISK FACTORS (mandatory for all catheters)

1. Is the site of the catheter correct? YES NO
2. Was the catheter secured? YES NO
3. Was the site of the catheter clean? YES NO
4. What catheter lock was used? YES NO
5. What was the use of the catheter for (e.g. urine, IVP)? YES NO
6. What material was the catheter made of? YES NO
7. Was the catheter secured to the patient? YES NO
8. Was any human/animal waste or oil or disinfectant during insertion? YES NO
9. Was the catheter secured to the patient? YES NO
10. Was any antibiotic used prior to catheter insertion prior to insertion? YES NO

SECTION 3 - RISK FACTORS (mandatory for all catheters)

1. Was the catheter secured to the patient? YES NO
2. Was any disinfectant used on the catheter or drainage line disconnected? YES NO
3. Was the catheter or line disconnected or damaged? YES NO
4. Was the patient or carer responsible for insertion? YES NO
5. Was the catheter or line secured to the patient? YES NO
6. Was any other infection observed with the catheter use (e.g. UTI)? YES NO
7. Has the catheter been changed in the last 30 days? YES NO
8. Has the use of the catheter been appropriate? YES NO

SECTION 4 - CATHETER REMOVAL (mandatory for ICU and SICU)

1. Was the catheter removed? YES NO
2. Was the catheter removed aseptically? YES NO
3. Was any disinfectant used during removal? YES NO

PROCEED TO SECTION 7

CAUTIs INVESTIGATION WORKSHEET

ADULT ACUTE CARE SETTINGS

SECTION 4 - FINDINGS (mandatory for all catheters)

1. The modifiable risk factors that contributed to this CAUTI event were?
2. What measures should the unit implement to avoid a future CAUTI event associated with the identified risk factor?
3. Have the findings been reported back to the unit? YES NO
4. Have the findings been reported back to the feeding team? YES NO

Investigator's name:

Investigator's signature:

Date:

© 2014 ACSQHC. All Rights Reserved. Document Version 2.0

44

**Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
 Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
 A Webber Training Teleclass**

Thank you

For further information:

Jan Gralton

National HAI Prevention Program, ACSQHC

P: + 61 2 9126 3655

E: jan.gralton@safetyandquality.gov.au

CEC HAI Program

P: +61 2 9269 5582

E: CEC-HAI@health.nsw.gov.au

www.cec.health.nsw.gov.au



www.webbertraining.com/schedule1.php

February 23, 2017	USING EXPERT PROCESS TO COMBAT CLOSTRIDIUM DIFFICILE INFECTIONS Speaker: Isabelle Guerreiro and Camille Achonu , Public Health Ontario, Canada <i>(European Teleclass)</i>
February 28, 2017	THE ROLE OF DRY SURFACE CONTAMINATION IN HEALTHCARE INFECTION TRANSMISSION Speaker: Prof. Jon Otter , Imperial College Healthcare NHS Trust, London
March 9, 2017	EVALUATION OF INFECTION CONTROL TRAINING Speaker: Martin Kiernan , University of West London <i>(FREE Teleclass)</i>
March 16, 2017	HOW TO BECOME CIC CERTIFIED WITHOUT BECOMING CERTIFIABLE Speaker: Sue Cooper , Public Health Ontario, Canada <i>(European Teleclass)</i>
March 28, 2017	TREATMENT OF SEVERE MRSA INFECTIONS: CURRENT PRACTICE AND FURTHER DEVELOPMENT Speaker: Dr. Philippe Eggimann , Centre Hospitalier Universitaire Vaudois, Switzerland
March 30, 2017	SCREENING FOR STAPHYLOCOCCUS AUREUS BEFORE SURGERY ... WHY BOTHER Speaker: Dr. Hilary Mumbrey , The Royal College of Surgeons in Ireland

Hosted by Jane Barnett jane@webbertraining.com
www.webbertraining.com

Catheter-Associated Urinary Tract Infection Prevention in the Continuum of Acute Care
Dr. Jan Gralton, National HAI Prevention Program, ACSQHC, Australia
A Webber Training Teleclass

Thanks to Teleclass Education
PATRON SPONSORS

