Canterbury District Health Board Te Poari Hauora Ō Waitaha

Urinary Catheterisation & Catheter Care

Self Directed Learning Package

Date Created: January 2013

Date review due: January 2015

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INTRODUCTION

The following Self Directed Learning Package (SDLP) is offered to enable all health professionals involved in patient catheterisation to perform this clinical skill competently and with confidence, whilst reducing the risk of infection or undue discomfort to the patient. This SDLP covers the core elements of urinary catheterisation and catheter care and can be used in all clinical settings and is suitable for Medical Practitioners, Registered Nurses, Midwives, Enrolled Nurses and Student Nurses/Midwives (as per Student Responsibility Policy CDHB Volume 12).

Before commencing the SDLP discuss with your Educator/ Manager which modules would be of most benefit to you in your role, requirement for updates and any clinical sign off required.

Please note that the information given in this workbook is from the latest best practice guidelines. Some specialised areas may have variations on this practice to meet the needs of their client group; these will be discussed in your area of practice by your Educator/ Specialist

OBJECTIVES

Completion of this SDLP will enable the healthcare professional to:-

- 1. Be able to provides necessary information and ensures patient safety.
- 2. Communicate with the patient in a way, which reduces anxiety.
- 3. Understand the rationale for catheterisation.
- 4. Understand the importance of aseptic technique and infection prevention.
- 5. Be able to identify potential problems when performing catheterisation and remedial action to be taken.
- 6. Discuss catheter care and maintenance.
- 7. Understand the rationale for the decision to remove an indwelling catheter.
- 8. Be aware of comprehensive documentation relating to the procedure of catheterisation.

INSTRUCTIONS

The Catheterisation SDLP is designed for completion on a modular basis.

Female Catheterisation: This SDLP is **not** compulsory to perform female catheterisation. It can however be used to obtain professional development hours by completing the workbook and submitting the answered questions to your Nurse Educator or equivalent

Male catheterisation: To be able to perform male catheterisation, please discuss further with your Educator. Following completion of this SDLP, you will need to attend a simulation workshop and be observed in clinical practice by a health professional that is skilled in male catheterisation.

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The Male catheterisation observation form can be found in appendix 6. Your sign off can be completed by a member of staff who is experienced in the male catheterisation procedure. Once completed please retain in your personal professional records.

Healthcare professional's currently competent in male catheterisation A healthcare professional that is currently competent in male catheterisation may choice to complete the pathway outlined for female catheterisation, to update knowledge and gain 2 hours professional development.

It is expected that the healthcare professional will have an up to date knowledge of the related anatomy and physiology in relation to catheterisation. For those wishing to update their knowledge the following reading material is recommended:

Douglas, S. F. (2004). *Urology Nursing (3rd edition)*. London: Balliere Trindall.

Royal College of Nursing. (2012). Catheter Care. RCN Guidance.

Royal Marsden Hospital (2004). *Manual for Clinical Nursing Procedures.* Oxford: Blackwell

European Association of Urology Nurses. (2012) Evidence based guidelines for best practice in urology healthcare: Catheterisation indwelling catheters for adults.

Before preceding the healthcare professional should familiarise themselves with the relevant sections of associated organisational documents:

- Canterbury District Health Board (2007). Nursing standards, policies and procedures. Volume D
- Canterbury District Health Board (2011). *Management guidelines for common medical conditions*, 14th Edition *Blue Book 14th Edition*
- Canterbury District Health Board (2011). *Infection control policy and procedure.* Volume 10 CDHB Policies Canterbury District Health Board
- Canterbury District Health Board (2006). *Legal & Quality*: Management of healthcare waste. Volume 2 CDHB Policies- Waste Guidelines.

Throughout the SDLP there are markers to bring information to your attention:



Important additional information



Links to further Information

Educational credits/ Professional development hours

 Education credits and professional development hours will be recognised following the Professional Development Hours Guide for depending on modules completed

Pathway	Requirements	Professional development hours or equivalent
Completion of catheterisation workbook only	 Modules 1-9 Completion of questions Marked by CNE, CNS or equivalent 	2 hours on completion of questions
Male catheterisation clinical skill	Modules 1-9Completion of workbook and	6 hours on completion of assessment
NB. Registration onto the	questions (bring to workshop)	
workshops will only be accepted from your	Attend workshopObservation in clinical practice	
Educator/Manager or equivalent	 Completion of clinical skills assessment 	

- Professional development hours will be allocated by your Nurse/Midwifery Educator, Clinical Nurse Specialist or equivalent in your work area on completion of your clinical assessment
- Sign off will be completed by your Nurse Educator, Clinical Nurse Specialist or equivalent within your work area on completion of your pathway.

Module One: Scope of Practice, Informed Consent & Cultural Safety

Scope of Practice

Nurses

Patient care should be carried out within the nurse's scope of practice, being aware they operate under the Nursing Council of NZ requirements which states "They (R/N) provide comprehensive nursing assessments to develop, implement, and evaluate an integrated plan of health care, and provide nursing interventions that require substantial scientific and professional knowledge and skill" (New Zealand Nursing Council, 2012).

The Nurses Code of Conduct has four principles that should be considered and upheld. Nurses are:

- To act ethically and maintain contemporary standards of practice.
- To respect the rights of patients/clients.
- To comply with legislated requirements
- To justify public safety and confidence.

Nurses are responsible and accountable for their actions, decisions and practices:

- To uphold the safety, wellbeing, interests and rights of patients, families and colleagues.
- To ensure that no actions or omissions are detrimental to the condition and safety of the patient.
- To take appropriate action where they have a duty of care, expected knowledge and understanding of the implications.
- To only undertake activities where they are competent, and are authorised to do so (as per their level of practice).
- To acknowledge any limitation in their knowledge/competence and seek assistance.
- To practise according to current policies, standards and accepted practices and seek clarification if dissatisfied with a clinical decision or inappropriate practices or orders.



Midwives

The Midwifery Council is required by Section 11 of the Health Practitioners Competence Assurance Act 2003 (HPCAA) to prescribe the Scope of Practice for Midwifery:

"The midwife works in partnership with women, on her own professional responsibility, to give women the necessary support, care and advice during pregnancy, labour and the postpartum period up to six weeks, to facilitate births and to provide care for the newborn.

The midwife understands, promotes and facilitates the physiological processes of pregnancy and childbirth, identifies complications that may arise in mother and baby, accesses appropriate medical assistance, and implements emergency measures as necessary. When women require referral midwives provide midwifery care in collaboration with other health professionals.

Midwives have an important role in health and wellness promotion and education for the woman, her family and the community. Midwifery practice involves informing and preparing the woman and her family for pregnancy, birth, breastfeeding and parenthood and includes certain aspects of women's health, family planning and infant well-being.

The midwife may practise in any setting, including the home, the community, hospitals, or in any other maternity service. In all settings, the midwife remains responsible and accountable for the care she provides." (Midwifery Council, 2010)

The Competencies for Entry to the Register provide details of the skills, knowledge and attitudes expected of a midwife to work within the Midwifery Scope of Practice. Whereas the Midwifery Scope of Practice provides the broad boundaries of midwifery practice, the Competencies provide the detail of how a registered midwife is expected to practise and what she is expected to be capable of doing.

Information on the four Competencies and a Statement on Cultural Competence can be found on the Midwifery Council website on



http://www.midwiferycouncil.health.nz/midwifery-competence/

Medical Staff

Under section 118 of the Health Practitioners Competence Assurance Act 2003 (HPCAA) the Medical Council of New Zealand (MCNZ) is responsible for setting standards of clinical competence, cultural competence and ethical conduct for doctors. The MCNZ expects all doctors registered with the Council to be competent. It is the responsibility of competent doctors to be familiar with *Good Medical Practice Guidelines*.

In relation to catheterisation the public and the profession expect doctors to be competent in the following areas

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Medical care

- Adequately assess the patient condition, taking account of the patient's history and examining the patient as is appropriate.
- Provide and arrange investigations and treatments as needed
- Taking suitable and prompt action when needed
- Recognise and work within limits of competence
- Provide effective treatments based on the best practice available
- Take steps to alleviate pain and distress whether or not a cure is possible

http://www.mcnz.org.nz/assets/News-and-Publications/good-medical-practice.pdf

Informed Consent

Informed consent is a process of exchanging information so that an informed decision can be made by the patient.

"The patient has a right to be accurately and adequately informed about a proposed procedure or treatment and to agree or refuse to have a procedure or treatment" (CDHB, 2006)

Every health professional has a responsibility to inform patients of proposed procedures and to gain consent for these. Health professionals who are to catheterise their patient **must** realise the primary responsibility for providing information regarding the procedure lies with themselves. Information should be given in a language, style and form that the patient can easily understand. The explanation should outline why the procedure is indicated, an explanation of the procedure, the risks involved and the benefits. It should be made clear to the patient that he or she has the right to refuse or withdraw from treatment without fear of recrimination and that he or she will be supported in their decision.

Written Consent for the insertion of a urinary catheter in the ward setting is not required , verbal consent will generally suffice (CDHB, 2006)

Consent should be documented in the patient's notes and in the situation where a patient is unable to give consent it should be recorded who gave consent on their behalf and their relationship to the patient.

Cultural Safety

Catheterisation for Maori is particularly sensitive, because of the tapu nature of the genital area. Seek guidance from the patient or their whanau about whom is appropriate to have present during the procedure. If the Maori patient is unconscious and whanau members are present, it is important to look to the person whom the whanau is mandating as the person with authority to speak on their behalf in order to obtain the appropriate consents. If there is no whanau member present at the time, but they arrive later, it will be important to advise them of the procedure and the reasons for it. Allow enough time for issues to be set out, explained and talked through sufficiently for a clear decision to emerge. You may also want to give some thought as to how you:

• Deal with different styles of communication, including silence.

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- Can use whanau / family and katumatua as part of the healthcare team.
- Can obtain help to assist with the interactions with Maori patients and their whanau through the Maori health workers available within the CDHB.
- Reinforce the holistic care perspectives, including all aspects of well being described in the Tikanga best practice guidelines.
- Show through words and actions that you understand Maori concepts of health and wellbeing.

Some Maori may want to say *Karakia* before or after the procedure. When Maori are embarrassed, shy, feeling powerless, frustrated, under scrutiny or at a disadvantage, they may use or exhibit the description "whakama". This is an expression of unhappiness and requires time and sensitivity.

Maori women are seen as being at the centre of their whanau, hapu and iwi, consider Te Whare Tangata, the house of people. The spiritual link between land and the health and well being of Maori women is reflected in the language used to describe the functional anatomy of Te Whare Tangata. The female genitals are the doorway to Te Whare Tangata and there are deeply felt cultural beliefs relating to the sanctity of Te Whare Tangata with consequences for related clinical practices such as catheterisation.



http://intraweb.cdhb.local/quality%2Dmaori/pamphlets.htm

Module Two: Decision to Catheterise

Definition

Urinary catheterisation is the insertion of a special tube into the bladder, using aseptic technique, for the purpose of evacuating or instilling fluids (Royal Marsden Hospital, 2004).

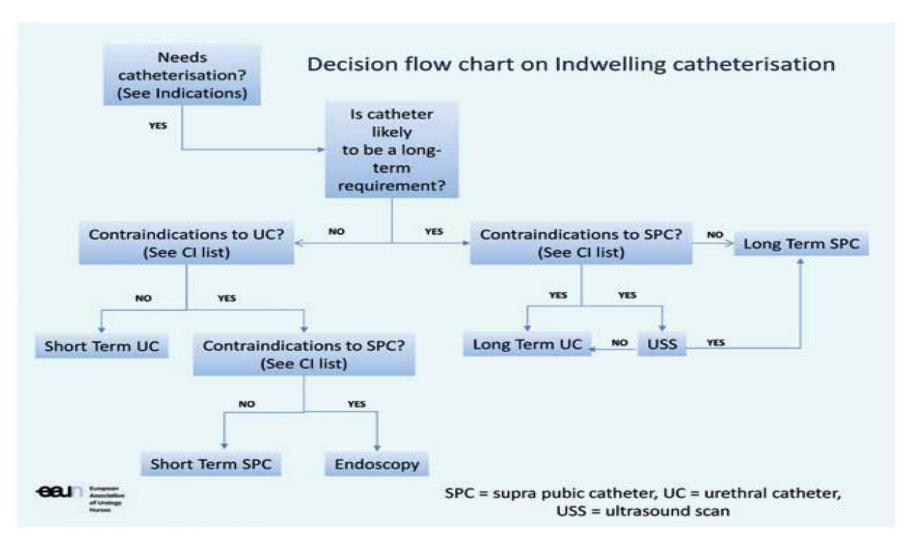
The decision to catheterise should only be made once all non-invasive options have been exhausted and documented in the patient notes. A full assessment of the patients needs should be carried out including identifying the underlying cause of bladder emptying problems (Bond.P, 2005).

Indications for catheterisation

Within the CDHB there are strict guidelines outlining indications for catheterisation:

- Acute and chronic urinary retention.
- Maintaining a continuous outflow of urine for patients with voiding difficulties as a result of neurological disorders.
- Need for accurate measurements of urinary output in critically ill patients.
- Patients undergoing urological surgery.
- Anticipated prolonged duration of surgery.
- Patients requiring prolonged immobilisation.
- Unconscious or sedated patient unable to void.
- In the operative and peri-operative setting.
- Patients with prolonged epidural anaesthesia e.g., in labour.
- Chronic retention if associated with impaired renal function or infection.
- Incontinence where catheterisation will enhance the persons quality of life, used as a last resort when alternative non invasive methods are unsatisfactory (ICS, 2009)
- To instil medication into the bladder.
- End of life care.
- Specific clinical needs

Urethral catheterisation for incontinence needs to be carefully assessed in light of social situation.



(European Association of Urology Nursing, 2012)

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Contraindications for Urethral Catheterisation

- Acute prostatitis
- Suspicion of urethral trauma

Key Point:

Intermittent catheterisation is the preferred alternative to indwelling catheterisation for individuals in whom bladder emptying is incomplete, providing this is safe and acceptable to them.

Key Challenges:

- Recognising individuals who may require additional support, such as children, elderly frail confused patients and individuals with learning disabilities or learning difficulties
- Ensuring that time and support is given to address specific individual needs and to ensure safe and effective management of the catheter.

Module Three: Choice of Indwelling Catheter Equipment

As catheters inserted for urinary retention or monitoring of urine output are short term this influences the choice of catheter to be used. A size 12-16 Foley catheter is generally sufficient for both adult men and women. The smallest size catheter that will drain the contents of the bladder should be selected. The urethral mucosa contains elastic tissue which will close around the catheter so there are fewer problems with leakage and pain. Fillingham and Douglas (2004. p. 71) stated that "the smaller sizes of catheter have been found to be capable of transporting the volumes produced by the average human being over a 24 hour period". A 12 gauge Foley catheter has the capacity to pass 100 litres of urine in a 24 hour period. On average, urine output is 1.5 litres in 24 hours.

At Christchurch District Health Board, Bardia Foley catheters are generally used. These are made of silicone elastomer (latex dipped in silicone elastomer) and are suitable for short term use (up to 2 weeks). For longer term use it is recommended that a hydrogel coated latex catheter is used. They have a straight rounded tip and two drainage holes. For male catheterisation a 40-45cm length catheter is recommended (Bardia Foley is 43 cm long). Females require a shorter length catheter of 20-25cm in length.

Potential side effects of large catheters include:

- Pain and discomfort
- Pressure ulcers, which may lead to stricture formation
- Blockage of paraurethral ducts
- Abscess formation

If urine drainage is likely to be clear a 12 gauge catheter should be considered. If debris and clots are present in the urine then a larger catheter is required (Royal Marsden Hospital, 2004).

Patients with latex allergies must be identified and a silicone Foley catheter (latex free) should be used

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Catheter types

Type of catheter	Properties	Recommended duration of use
Foley catheter (latex)	Cheap, greater elasticity and comfort. Risk of latex allergy Prone to encrustation	14 days
Foley catheter (silicone)	Latex free Larger lumen and thin walled Rigid and less comfortable Prone to cuffing and ridging	12 weeks
Foley catheter (releen)	Expensive Radio opaque	12 weeks
Hydrogel coated	Hydrogel coated latex Well tolerated Become smother when rehydrated thereby reducing friction	12 weeks
Coude tip / tieman tip	Can negotiate urethra in patients with enlarged prostate Can be intermittent or 2 way	12 weeks
Nelaton catheters	Polyvinylchloride or polyurethane No balloon Temporal use Cheap and minimise risk of infection	1 clean catheter /week A new catheter each time in hospital

Balloon Size.

Balloon sizes vary from 2.5ml for children up to 30ml. A 30ml balloon is used to aide haemostasis after prostatic surgery. The weight of a 30ml balloon is approximately 48g, which causes pressure on the bladder neck and pelvic floor causing potential damage to these structures (Pomfret, 2000. Robinson, 2001). These size ballons are also associated with leakage of urine, pain and bladder spasm as they cause irritation to the bladder mucosa and trigone (Pomfret, 2000).

A catheter with a 10ml balloon should be routinely used and the balloon should be inflated with sterile water. Normal saline **must not** be used as salt particles may block the inflation channel and prevent the balloon being able to be deflated prior to removal.

If the balloon is over inflated this can cause distortion of the catheter tip, which may result in irritation and trauma to the bladder wall. Symptoms include pain, spasm,

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bypassing and haematuria (Royal Marsden Hospital, 2004). There is also the possibility of balloon rupture leaving fragments in the bladder.

If the balloon is underinflated one or more of the drainage eyes may become occluded or the catheter may become dislodged.

Storage

Catheters should be stored flat, in the original packaging, out of direct sunlight and **NOT** bundled tightly together with elastic bands. Always check expiry date before use.

Cost

The cheapest product is not necessarily the most efficient. The chosen system should meet the individual patient needs. Particularly when considering the length of time the catheter is to stay in place.

Drainage System

Choose a drainage system that is suitable for the patient's individual needs taking into account:

- Mobility
- Limited dexterity (e.g. can the bag be emptied using one hand)
- Limited visual ability

Changing and emptying of a drainage bag is a relatively technical skill involving a certain amount of skilled co-ordination, therefore patients should be assessed on an individual basis.

A wide variety of drainage systems are available and careful consideration of the reasons for catheterisation, intended duration, the wishes of the patient and infection prevention issues are involved when selecting the correct system.

Drainage bags are available in a variety of sizes incorporating urine measuring devices, which can be used for very close monitoring of urine out-put when required.

Leg bags (500-750mls)

- Leg bags should be sterile and left in situ to minimise the risk of introducing infection between the catheter and bag connection point
- Drainage bags must have either an anti-reflux valve or anti-reflux chamber to prevent reflux of contaminated urine from the bag into the tubing.
- It is recommended that drainage bags should have a sample/access port for the collection of urine specimens while maintaining a closed system, preferably needle-free.
- Most commonly they are disposed and discarded after one week; however latex based leg bags can be used for longer periods of time.
- Used during the day and can be secured to the leg in a variety of ways e.g. straps, leggi fix, catheter bag holders strapped from the waist

- The leg bag must be kept below the level of the bladder, some people may choose to wear the leg bag on their thigh; others prefer to wear the leg bag on their calf.
- A newer product; the "belly bag" may be placed upon the stomach
- Leg bags can also be used to reduce trauma for the confused or forgetful patient while in hospital.
- Drainage tubing on leg bags is available in different lengths and can be tailored to individual's requirements.
- At night a night bag is attached to the bottom of the leg bag, providing a link system and allowing for greater drainage capacity (Stewart, 1998).
- The leg bag should be disconnected from the catheter, only when the bag is due to be changed or when the catheter needs changing.
- The general recommendation for changing/replacing disposable drainage bags is when they become damaged, odorous, have sediment in the bottom or clinically indicated.

Disposable 2 litre plastic bags (night bag)

- For general use in hospital and described as a night bag in community.
- Night bags have longer (120cm) length tubing commonly with an outlet port to allow emptying (models are now available which have a needless sampling port).
- Bags should be changed when they become damaged, contaminated or malodorous and at catheter changes.



www.nhshealthquality.org

Disposable 4 litre plastic bags

- Bags with non returnable valve. Used post operatively in urology and for bladder irrigation.
- Usually short term and only changed if damaged, contaminated or malodorous.

Catheter valves

A catheter valve (sometimes described as a flip flow valve) is a small device connected to the catheter in place of a drainage bag. Closing and opening of the valve allows for bladder filling and intermittent bladder emptying rather than continuous drainage into a bag. It can be released when the patient wishes to pass urine i.e. every 3-5 hours.

The catheter valve can be connected to night drainage bag and opened to allow free drainage overnight.

Catheter valves must be changed in accordance with the manufacturers' recommendations.

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Valves are generally inappropriate after certain types of surgery e.g. radical prostatectomy and for patients with:

- Poor mobility
- Poor bladder capacity
- Detrusor over activity
- Ureteric reflux
- Renal impairment
- Cognitive impairment

A spigot is not a suitable alternative to a valve as it has to be removed from the catheter to allow drainage and thereby breaking the closed drainage system.

Catheter Securement Devices

These are designed to prevent excessive traction of the catheter against the bladder neck or accidental removal of the catheter. For male catheterisation it is recommended that the catheter be secured in a soft curve on the patient's abdomen.





Different types of catheter securement devices (Source: T. Schwennesen)

Module Four: Infection Prevention

Catheter -associated infections are the most common hospital-acquired infection. The most common sites where bacteria may enter the system include: on the catheter tip during insertion, space between urethra and catheter, catheter detached from bag, poor technique when obtaining samples and poor technique when emptying catheter bag (Royal Marsden Hospital, 2004).

Risk of infection with catheterisation can be minimised by adherence to standard precautions, including the 5 Moments for Hand Hygiene and using an Aseptic Non-Touch Technique (ANTT).

Risk of Infection

The risk of hospital-acquired urinary tract infection is dependent on a number of factors:

- Gender of patient
- Duration of catheter
- Absence of systemic antibiotics
- Inadequate catheter care

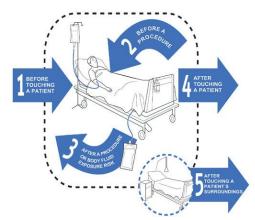
Hand hygiene

Hand hygiene and aseptic technique are the keys to minimizing infection during catheterisation.

Effective hand hygiene is achieved by procedural hand washing, which is used before putting on sterile gloves, inserting indwelling devices and aseptic technique. This requires the use of an antimicrobial liquid soap **or** decontamination of hands using an Alcohol Based Hand Rub (ABHR).

Five Moments of Hand Hygiene

- Moment 1: Before patient contact
- Moment 2: Before a procedure
- Moment 3: After a procedure or contact with body fluid exposure risk
- Moment 4: After patient contact
- Moment 5: After contact with patient's surroundings



Personal Protective Equipment (PPE)

PPE in relation to catheterisation includes the use of sterile gloves, aprons, masks and face shields or goggles.

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Fluid Intake

Drinking sufficient fluids dilutes the urine and helps reduce the risk of catheter encrustation and blockage. The amount of fluid needed will differ with each patient depending on size, fluid loss, food intake, circulatory and renal function to prevent the urine from becoming concentrated. Urine output should be maintained between 50-100ml/h (European Association of Urology Nurses, 2012), unless determined otherwise in the patients care plan or care pathway.

Bowel Care

Good bowel care involves assessment of normal bowel habit, avoiding constipation and straining, and discussing dietary intervention. The use of antispasmodic drugs e.g. oxybutynin, for catheter related bladder irritation, may contribute to constipation and decreased gastrointestinal motility (Medsafe, 2010). Straining in association with emptying bowels contributes to bladder spasm, catheter bypassing and catheter blockage.

Key Point:

 Good Hygiene is an integral and important component of a strategy for preventing catheter-related Urinary Tract Infections (UTI's)

Catheter Care

Daily bathing or showering is encouraged to maintain personal hygiene and only requires the use of soap and water. Trials have been performed in the use of a number of cleaning agents especially in meatal cleaning and have found to show no reduction in bacterial growth (Kunin, 1997).

Statement	Rationale	How achieved
Indwelling catheters are	Maintaining a closed	Staff need to be familiar
connected to a closed	system reduces the risk of	with equipment available
drainage system and the	catheter- related infection	in their clinical area and
closed system is maintain		the correct assembly and
as much as possible		use
Urine drainage bags are	Ensure flow is maintained	
emptied regularly (when	by gravity and prevents	Become familiar with local
two-thirds full) and	harmful reflux	policy
positioned below the level		
of the bladder (except "belly bags").		
Deliy bags).	Trauma to the neck of the	
when in hospital bags	bladder may occur by	
should be supported on a	downward pull of the	
stand above floor level	catheter if the bag is too	
	full or not supported	
	correctly	

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A separate clean container must be used for each individual for emptying the drainage bag. Contact between drainage tap and container is avoided. Gloves must be worn when emptying drainage bags these are to be changed and hands washed between each individual. Leg bags can be emptied directly into the toilet. over- night bags both 2 and 4 litre) are single use only which are then emptied and the bag discarded	To reduce the risk of catheter related infection and cross infection	Become familiar with local policy and regular audit of practice

Catheter Bag Emptying

The purpose in performing this procedure is to empty the bag, monitor urine output and to ensure the drainage system is patent and draining.

Unused urinary drainage bags are sterile items and should not be stored in the sluice or dirty utility areas. The indwelling catheter should be attached to a sterile closed urinary drainage system. Catheter bags should be positioned below the bladder and above floor level to prevent reflux and contamination.

Step

- 1 Explain procedure to the patient and ensure privacy.
- 2 Standard safety precautions are adhered to: Clean disposable non-sterile gloves, plastic apron and mask
- 3 Hand hygiene performed before donning gloves or manipulating catheter
- The urine bag is emptied into a clean separate container (one container per patient).
- 5 Disposable paper towel to protect the floor under the container from spills.
- 6 Drainage tap of catheter is not to come in contact with drainage container
- 7 Second disposable towel used to wipe away any residual urine from tap when closed.
- 8 Ensure the drainage bag is securely fixed to either the leg (leg bags) or urine drainage holder (night bags) to prevent trauma.
- 9 Measure urine output.
- Dispose of urine and contaminated paper towel following standard precautions avoiding any splashing.

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- 11 Clean urine drainage container as per standard precautions.
- Dispose of gloves and perform hand hygiene.
- Document urine output measurement on fluid balance chart and in clinical notes.

Catheter Bag Change

The changing of catheter drainage bags at fixed intervals or routinely is not recommended and drainage bags should only be changed if there are clinical indications such as infection, obstruction or when the closed system is compromised (EAU 2012). Although a closes urinary drainage system does not prevent bacteriuria it can be delayed. Unnecessary disconnection of the system increases the risk of bacteriuria developing more rapidly.

Step

- 1 Explain the procedure to the patient and ensure privacy.
- 2 Standard safety precautions are adhered to: Clean disposable nonsterile gloves and plastic apron (Mask with visor specific to BSU).
- Hand hygiene performed before donning gloves or manipulating catheter.
- 4 Open dressing pack onto cleaned flat surface and pour out cleaning solution onto sterile container.
- 5 Drape the patient allowing for easy access of the catheter and drainage bag connection site.
- Apply clamp to bottom of catheter but above balloon injection site with artery forceps.
- Apply sterile gauze to the end of the catheter and the drainage tube at the connection point and disconnect.
- 8 Clean inside and outside of catheter end with separate gauze swabs impregnated with cleaning fluid.
- 9 Connect new closed system urinary drainage bag to the catheter.
- Secure drainage bag to the leg (leg bag) or to urine drainage bag holder (night bag) to prevent trauma.
- Dispose of used drainage bag and used equipment as per standard precautions. CDHB waste quidelines
- Dispose of gloves and perform hand hygiene.
- Document urine output measurement on fluid balance chart and in clinical notes.

Key Points:

- Frequent vigorous meatal cleaning with antiseptic solutions is unnecessary and may increase the risk of infection.
- Daily bathing and showering is encouraged.
- A closed drainage system is maintained as far as possible.
- The use of closed drainage systems which incorporate sample ports is highly recommended.

Urine Sampling from an Indwelling Catheter

Urine samples should only be taken from indwelling catheters for a valid reason, such as suspected infection.

Indications: Signs and symptoms of a urinary tract infection (IDC in situ)

The patient has an indwelling catheter and at least two of the following signs and symptoms:

- a. fever (>38°C) or chills,
- b. new or increased burning pain (dysuria) on urination, frequency or urgency,
- c. new flank or supra pubic pain or tenderness,
- d. change in character of urine,
- e. Worsening of mental or functional status

Closed urinary drainage systems should ideally have a sample port for the collection of specimens to prevent a break in the closed system.

Step

- Obtain consent and ensure the procedure is explained and performed maintain patient dignity.
- 2 Hand hygiene performed before donning gloves or manipulating catheter.
- 3 Standard safety precautions are adhered to: Clean disposable nonsterile gloves and plastic apron (Mask with visor specific where necessary).
- If there is no urine visible in the drainage tube then clamp the catheter below the sample port.
- Once sufficient urine collected above the clamp wipe the sample port with an alcohol swab and allow to dry.
- Insert sterile syringe directly into sample port and aspirate 3ml urine, a minimum of 1 ml is required for satisfactory testing the port will self-seal when the syringe is withdrawn. Or if using needle and syringe, insert needle at a 45° angle into the catheter above the clamp (avoiding the water channel to the balloon).
- 7 Transfer specimen into appropriate specimen bottle avoiding contamination.
- 8 Wipe the sample port area with alcohol swab and allow to dry
- 9 Unclamp drainage tube.
- Dispose of all waste as per standard precautions.
- 11 Hand hygiene performed.
- Label sample and palace in plastic transport bag with request form and transfer the laboratory.
- 13 Document in clinical notes.

Key Points:

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- The use of sample ports removes the need to break the closed system
- Breaking the closed drainage system to obtain a urine sample increases the risk of catheter-related infections.
- The use of a sample port removes the need to break the closed system.

Module Five: Indwelling Urethral Catheterisation Insertion (Female)

Catheterisation is an invasive procedure that can cause embarrassment, physical and physiological discomfort. Explaining the procedure and providing the reason for catheterisation will reduce patient anxiety. It is important that the healthcare professional performing the procedure takes time to complete a brief medical history especially about any urological and gynaecological conditions before commencing the procedure.

Procedure: Indwelling Catheter (*Female***)**

Equipment

Sterile catheter pack.	Chlorhexidine & Cetrimide solution or Normal saline 0.9%.
Sterile gloves.	Sachet or sterile tubes of lubricant.
Selection of appropriate catheters.	Sterile water and syringe to inflate the balloon.
Appropriate drainage bag.	Flexitrak or fixing tape.
Disposal bag.	Disposal apron.
Goggles or protective eye cover.	Universal specimen container.
Antimicrobial liquid soap or Alcohol- Based Hand Rub (ABHR).	Sterile syringe of Lignocaine lubricant with adaptor. (Optional)

Action	Rationale
Explain and discuss the procedure with the patient.	To ensure the patient understands the procedure and obtains informed consent.
2. Screen the procedure area.	To ensure patient privacy. To allow for dust and airborne organisms to settle before the field is exposed.
3. Assist the patient to get into a supine position with knees bent, hips flexed and feet resting about 60cm apart. If unable to lay supine a lateral position with 1-2 pillows between legs is suitable.	To ensure correct position allows for access of catheter and allows genitalia to be seen.
4. Put on disposable apron.	To reduce the risk of cross- infection form micro-organisms on uniform.
5. Open catheter pack and	To prepare equipment.

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Action	Rationale
supplementary equipment using	
aseptic technique.	
Empty sterile water into one of	
the sterile containers to be drawn	
up into syringe ready to inflate	
balloon.	
6. Put on protective eyewear	
7. Clean hands using antimicrobial	Hands may have become
liquid soap or alcohol-based hand	contaminated by handling out
rub (ABHR).	packaging of equipment.
8. Draw up sterile water into syringe	To use later
9. Put on sterile gloves.	To reduce risk of cross- infection.
10. Place sterile drapes between	To create a sterile field.
patient's legs and over thigh's.	
11. Clean external and internal labia	Adequate lubrication helps prevent
and vulval area. Identify the	urethral trauma.
urinary meatus. If necessary	
identify any prolapsed around the	Female patients may experience
meatus and gently reduce to	pain and discomfort when
expose the meatus.	performing catheterisation
Local anaesthetic gel can be used	Use of a local anaesthetic minimizes
if the patient is experiencing	the discomfort experienced by the
discomfort	patient.
12. Remove cleaning tray from sterile	
field and place between the	
patients legs	
13. Dip the catheter into the lubricant	Adequate lubrication helps to prevent
gel.	urethral trauma.
14. Place catheter in sterile receptacle	To provide a temporary container for
in the tray between patient's legs	urine as it drains.
on the sterile field.	
15. Using sterile (Clean) hand	The direction of insertion should be in
introduces the catheter directly	relation to the anatomical structure of
into the urethral orifice in an	the area.
upward forward direction towards	
the pubic bone.	
NB: if the catheter touches any part	
of the vulva or any non-sterile area, it	
should be discarded and a new	
catheter used. However, if the	
catheter enters the vaginal orifice, do	
not remove it, but leave it as a	
marker. Use a new catheter to insert	
into the urethral orifice and then	

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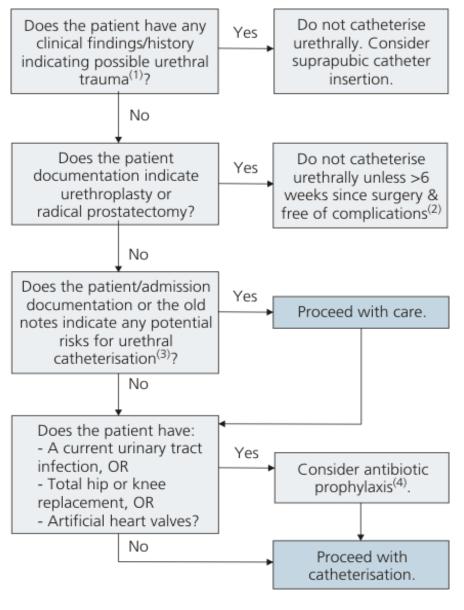
Action	Rationale
remove the catheter in the vagina.	
16. Advance the catheter until urine begins to flow then insert for a further 6-8cm.	To ensure the catheter is in the bladder and not the bladder neck when the balloon is inflated.
 17. Inflate the balloon with correct amount of sterile water having ensured that the catheter is draining adequately. Gently draw back on catheter until resistance is felt. NB: use a sterile non-touch technique to draw up the water 	Inadvertent inflation of the balloon within the urethra is painful and causes urethral trauma.
18. Connect the drainage bag, using non-touch technique for the end of the catheter and drainage bag connection.	To reduce risk of cross-infection.
19. Remove gloves and wash hands.	To reduce risk of infection.
20. Ensure tubing of drainage bag is	To prevent catheter being pulled,
taped to the patient's leg.	causing bladder injury.
21. Make the patient comfortable, wiping away any excess moisture and lubricant and ensure that the area is dry.	If this area is left wet and moist, secondary infection skin irritation may occur.
22. Measure amount of urine drained.	To monitor renal function and fluid balance.
23. Take a urine specimen for laboratory examination if required.	
24. Dispose of equipment in yellow plastic clinical waste bag and seal.	To prevent environmental contamination.
25. Document in clinical notes: Date/ consent given Reason for catheterisation. Catheter type and size. Amount of water in balloon. Any problems with procedure. Urinary drainage. Nature of urine drained (haematuria, cloudy, clear etc.). Whether specimen sent for further investigation. Review date / catheter change.	To provide a point of reference or comparison in the event of future enquires.

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Post Obstructive Diuresis may require IV replacement of electrolytes (Walker 1990). This will occur with patients with renal impairment and they require hospital admission and close observation

Module Six: Indwelling Urethral Catheterisation (Male)

The decision to perform male catheterisation is made after careful and thorough patient assessment and after medical consultation. Assessment must include the age of the patient, past medical history with particular attention to relevant urology history and recent surgeries. Assessment of the patient's fluid balance and hydration status including intravenous fluids administered oral intake, vomiting, blood losses and any urine output is required before making the decision to catheterise.



(CDHB, 2012)

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Notes

- 1. I.E. if they have had a Straddle injury (fall, kick, cycle) or fractured pelvis (car accident, fall, crush) accompanied by penile tip blood, lower abdominal pain and inability to pass urine, or perineal haematoma.
- 2. If history of:
 - Urethroplasty or radical prostatectomy <6 weeks

This surgery indicates the presence of a urethral graft or anastomosis. Catheterisation should therefore be performed by a Urology Registrar if available. If unavailable, medical staff to insert a suprapubic catheter.

Urethroplasty or radical prostatectomy >6 weeks

Proceed with urethral catheterisation with care using a 14 Fr catheter. If unsuccessful, insert a suprapubic catheter.

- 3. Potential risks for urethral catheterisations:
 - Other prostate or urethral surgery in the last four weeks (e.g. TURP, urethrotomy, bladder neck incision)
 - Urethral trauma in the last four weeks
 - Known prostate enlargement
 - Known urethral stricture
 - History of long term difficulty in passing urine (e.g., urinary retention, poor urinary flow)
 - History of difficult urethral catheterisation previously
- 4. For bacterial endocarditis prophylaxis, refer to Infective Endocarditis Prophylaxis (blue book page 49). For other situations, seek Consultant advice.

Male Catheterisation Insertion by a Nurse Criterion

Historically there have been gender issues surrounding male catheterisation. Whilst female nurses could catheterise female patients, men were catheterised only by doctors or male nurses. Today it is considered acceptable, with patient consent, for a female nurse to catheterise male patients. Nurses must however acquire the necessary knowledge and skill of male catheterisation to ensure that their male patients receive the same prompt attention as female patients when urethral catheterisation is required.

Current CHDB guidelines (2007) outline the nurse's role and responsibilities as undertake male catheterisation in the following circumstances:

- Routine catheter change, where NO previous difficulties in catheterisation have been encountered.
- For the instillation of intravesical bladder therapy (e.g. BCG) IF ASSESSED
 AS COMPETENT TO DO SO.
- To teach clean intermittent self-catheterisation.

Needing Direction from the Patients Medical Team

- Initial catheterisation for relief of acute and chronic retention, incontinence or for end of life comfort care.
- To obtain a clean urine sample in the incontinent patient or if it is otherwise difficult to obtain urine sample.
- To assess the residual volume of urine where a bladder scan is not available or unfeasible.
- To insert a three way catheter (or change from a two way catheter) if bladder irrigation is required post TURBT.
- To change a blocked / non draining three way catheter in a patient admitted primarily for haematuria.

Nurses **MUST NOT** undertake male catheterisation in the following circumstances:

- Where there is any current history of injury or pelvic trauma.
- Where there is known difficulty in catheterising the patient.
- Where there has been failure to catheterise at the first attempt/ blood noted on the tip of the withdrawn catheter.
- Where urethral meatus cannot be visualised.

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- If the patient is within 72 hours of a TURP.
- If the patient has a known urethral structure.
- If the patient has had a radical prostatectomy.
- If the patient does not give consent for the nurse to perform the catheterisation.

PROCEDURE: Indwelling Catheter (Male)

Equipment

Sterile catheterisation pack.	Chlorhexidine & Cetrimide solution or Normal saline 0.9%.
Sterile gloves.	Sterile syringe of Lignocaine lubricant with adaptor.
Appropriate sized catheters.	Sterile syringe and sterile water to inflate balloon.
Urine drainage bag.	Catheter fixation tape.
Clinical waste bag.	Disposable protective apron.
Goggles or protective eye wear.	Plastic backed sheet.
Antimicrobial liquid soap or alcohol-based hand rub (ABHR).	Universal specimen container.

Action	Rationale
Explain and discuss the procedure with the patient and obtain verbal consent.	To ensure the patient understands the procedure and obtains informed consent.
2. Screen the procedure area.	To ensure patient privacy. To allow for dust and airborne organisms to settle before the field is exposed.
3. Assist the patient into a comfortable position in a supine position with legs extended.	Enabling ease of catheter insertion and ensure no undue exposure for patient.
4. Wash hands using antimicrobial liquid soap or alcohol-based hand scrub (ABHR).	To reduce the risk of infection.
5. Put on plastic apron.	To reduce risk of cross-infection from micro-organisms on uniforms,
6. Prepare the trolley placing all required equipment on the bottom shelf after checking expiry dates and pack integrity.	The top shelf acts the clean area for the procedure.
7. Open catheter pack and	To prepare equipment.

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Action	Rationale
supplementary equipment using	
aseptic technique.	
8. Put on protective eyewear.	To protect reduce risk of splash
9. Wash hands using antimicrobial	Hands may have become contaminated
liquid soap or alcohol-based hand	by handling outer packaging of
rub (ABHR).	equipment.
10. Draw up sterile water into syringe	To use later
11. Put on sterile gloves.	To reduce risk of cross- infection.
12. Place sterile towel across patient's thigh and under buttocks.	To create a sterile field.
13. Wrap a sterile topical swab around	To reduce the risk of introducing
the penis. Retract the foreskin, if	infection to the urinary tract during
necessary, and clean the glans penis	catheterisation.
with the cleaning solution.	
14. Remove cleaning equipment from the sterile field.	
15. Insert the nozzle of the lubricating	Adequate lubrication helps prevent
gel into the urethra. Squeeze the gel	urethral trauma. Use of a local
into the urethra, remove the nozzle	anaesthetic minimizes the discomfort
and discard the tube. Massage the	experienced by the patient.
gel along the urethra.	
16. Hold the distal urethra closed and	To prevent anaesthetic gel from
wait 2- 5 minutes.	escaping. To allow the aesthetic gel to
Massage the gel along the urethra	take effect.
	if post urology surgery consider using 2 syringes
17. Grasp the penis behind the glans,	This manoeuvre straightens the penile
raising it until it is almost totally	urethra and facilitates catheterisation.
extended. Maintain grasp of the	Maintaining a grasp of the penis prevents
penis until the procedure is	contamination and retraction of the
completed.	penis.
18. Place a dish containing the opened	The male urethra is approximately 18cm
catheter between the patient's legs.	long.
Insert the catheter 15-25cm gently	
until urine flows.	Come registance may be due to encore of
19. If resistance is felt at the external	Some resistance may be due to spasm of
sphincter, increase the traction on the penis slightly and apply steady,	the external sphincter. Straining gently helps to relax the external sphincter. If
gentle pressure on the catheter. Ask	still resistance seek medical assistance.
the patient to strain gently as if	San resistance seek incurcal assistance.
passing urine.	
20. When urine begins to flow advance	Advancing the catheter ensures that it is

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Action	Rationale
the catheter almost to its bifurcation.	correctly positioned in the bladder
21. Gently inflate the balloon according	Inadvertent inflation of the balloon in the
to the manufacturer's directions.	urethra causes pain and urethral trauma.
Ensure that the catheter is draining	
properly	
22. Withdraw the catheter slightly and	
attach it to the drainage system.	
23. Support the catheter by attaching to	To maintain patient comfort and to
the patients leg. Ensuring the	reduce the risk of urethral and bladder
catheter does not become taut when	neck trauma. Care must be taken in
the patient is mobilising and that the	using adhesive tapes as they may
lumen of the catheter is not occluded	interact with the catheter material.
by the support device	
24. Ensure that the glans of the penis is	Retraction and constriction of the
clean and dry and then reposition the	foreskin behind the glans penis
foreskin	(Paraphimosis) may occur if this is not
	done.
25. Make sure the patient is comfortable.	If the area is left wet or moist, secondary
Ensure that the patient is clean and	infection and skin irritation may occur
dry	T I.C I.C
26. Measure the amount of urine drained	To monitor renal function and fluid
and obtains a sample if required.	balance.
27 Dianage of equipment in valley	To provent environmental contemination
27. Dispose of equipment in yellow	To prevent environmental contamination.
plastic clinical waste bag and seal. 28. Document in clinical notes:	To provide a point of reference or
	To provide a point of reference or
Date/ consent given Reason for catheterisation	comparison in the event of future
	enquires.
Catheter type, length and size. Amount of water in balloon	
Any problems with procedure	
Urinary drainage	
Nature of urine drained	
(haematuria, cloudy, clear etc.)	
Whether specimen sent for further	
investigation	
Review date / catheter change	
Vay Points	

Key Points:

- After assessing the reason for catheterisation, as small a catheter as possible should be used, allowing for good drainage.
- Whilst aseptic technique should always be used to cleanse the urethral meastus, there is no advantage in using any specific antiseptic solution as cleaning agent.

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Key Challenges:

- Ensuring the foreskin is returned to the original position after the catheterisation procedure.
- Ensuring that the penis is held away from the abdomen during catheterisation to allow the smooth passage of the catheter.

COMPLICATIONS IN RELATION TO MALE CATHETERISATION

Complications related to the insertion of urinary catheters in male patients and simple troubleshooting procedures are outlined below.



If symptoms not relieved medical assistance must be sort

Complication	Reason	Simple solution
Phimosis Constriction of the foreskin so that is unable to draw back over the glans penis.	Retraction of the foreskin to clean in preparation of catheterisation.	Ensure foreskin over the glans penis.
Paraphimosis Foreskin becomes oedematous and fixed in the retracted position constricting the penis	Failure to replace foreskin over the glans penis	Gently manipulate the foreskin over the glans penis. May be manipulated by the patient If unsuccessful alert medical staff
Slight bleeding on insertion of catheter	The lining of the urethra as been scratched during catheterisation.	Monitor and alert medical staff if bleeding becomes worse. Lignocaine gel may alleviate the pain and discomfort
Unable to advance catheter past the prostate gland	On trying to advance the catheter the patient may experience discomfort or a strong desire to void.	Encourage patient to relax. Ask the patient to cough. Try to advance the catheter as the patient breathes out. Try larger catheter (no larger than 16 gauge). If all else fails alert

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Complication	Reason	Simple solution
Bladder spasm (detrusor)	Muscle spasm can cause discomfort to the patient. They are a response to the presence of a foreign body in the bladder. The larger the catheter the bigger the chance if irritability and spasm	medical staff Usually temporary and will settle within 24-48 hours post catheterisation. Anti-spasmodic drugs may be considered removal of catheter smaller catheter insertion
<u>Pain</u>	Can vary and may be felt in supra pubic region or referred to the tip of the penis.	temporary discomfort should settle within 24-48 hours of catheterisation Mild analgesic or Lignocaine gel.
	Severe pain should be deemed suspicious that the catheter balloon is inflated in the urethra	Deflate the balloon advance the catheter gently then reinflate. If unable to advance catheter alert medical staff.
		Do not removal catheter completely to prevent the risk of urethral swelling
<u>Urine does not flow when</u> <u>catheter has been inserted</u>	May be blocked by residue Lignocaine gel	Wait a few minutes to observe for drainage. Flush gently with sterile normal saline to remove blockage.
<u>Prostatitis</u>	Caused by bladder or urinary infection, prostate biopsy, or enlarged prostrate Presents with chills, perineal pain, and lower abdominal pain.	Cooling measures. Alert medical staff. Increase fluid intake. Monitor vital signs. May require antibiotic therapy

Module Seven: Problem Management for Indwelling Catheters

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There are a variety of complications associated with indwelling catheters. Regular review for these complications is required to enable timely treatment to prevent pain and discomfort to the patient, this includes the severity and frequency of the complication, any triggers, interventions that have already been use to treat the complication and its effect.

Observation of the patient concentrating on the catheter entry site, catheter position, type and size, support system being used, drainage system, urine colour, volume contents and odour, skin condition and personal hygiene are all required. The following tables identify some catheter related complications, possible reasons and possible solutions as identified by NHS Quality Improvement Scotland (2004).



If symptoms not relieved medical assistance must be sought

Problem	Cause	Suggested Action
Urinary tract infection	 Poor aseptic catheterisation technique Inadequate urethral cleaning Contamination of catheter tip Poor handling of drainage system Poor hand hygiene practices Breaking the closed system 	 Obtain a CSU- see procedure on obtaining catheter specimen Review catheterisation and catheter care technique
Urethral mucosal trauma and/or bleeding after catheterisation	 Incorrect catheter size Poor technique Movement of the catheter in the urethra Creation of a false passage as a result of too rapid insertion of catheter 	 Re-catheterise using the correct size of catheter Check the catheter support and apply or reapply as necessary Check catheter type? latex sensitivity-replace with 100% silicone catheter

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		 Catheter may need to be removed while the mucosa is healing Ensure the catheter is still draining and increase oral fluid intake to dilute and flush out the blood If you suspect the catheter is not draining or if the bleeding has not stopped after 24 hours seek medical attention immediately
No drainage after	• Incorrect identification of	Check that catheter has
catheterisation	external meatus	been sited correctly If the catheter has been
See "urine does not drain"	(female)	inserted in the vagina,
flow chart (appendix .1)		leave the catheter in
	Blockage of catheter	position to act as a guide, re-identify the urethra and catheterise See 'blocking catheter' flow chart (appendix.2) • Check patient's fluid
	Drainage bag too full	status, to discount dehydration-increase fluid intake
Urine by-passing catheter	Misplacement of catheter (female)	See 'urine by passing' flow chart (appendix.3)
	wrong size catheter	
Inability to tolerate catheter	 Urethral mucosal irritation Psychological trauma Unstable bladder Radiation cystitis 	 Catheter may need to be removed and seek an alternative means of urine drainage Explain the need and functioning of the catheter

		Consider anticholinergics
Formation of crusts around the urethral meatus	Increased secretions collect at the meatus and form crusts, due to the irritation of urothelium by the catheter	Encourage daily meatal wash and after bowel movement-using soap and water or saline
Penile pain on erection	 Not allowing enough length of catheter to accommodate erection Poor technique and inadequate lubrication with intercourse 	 Ensure that an adequate length is available to accommodate erection Give patient education regards use of water based lubrication and condoms with sexual activity
Catheter falling out	Bladder spasm	See 'bladder and/or urethral spasm' flow chart
	Balloon deflation	(appendix. 4) • Check that balloon is
	Catheter traction	still inflated • Secure catheter to leg to prevent pull. Ensure
	Reduced bladder neck/ urethral tone	drainage bag is emptied regularly • Teach pelvic floor exercises as appropriate

Cutting of catheters along the length is not safe practice and can result in the retraction of the catheter into the bladder

DO NOT ATTEMPT A BLADDER WASHOUT this will only distend the bladder further with potentially fatal consequences.

Autonomic Dysreflexia

Autonomic dysreflexia (autonomic hyperreflexia) is a serious life threatening condition relating to patients with a spinal cord lesion above the mid-thoracic level This syndrome develops secondary to any noxious stimulus below the level of the injury. As the spinal cord is damaged preventing signals to be passed to the brain,

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the body produces abnormal nerve signals in excess. Below the injury blood vessels go into spasm causing the blood pressure to rise. A range of stimuli can cause this but bladder problems are a leading cause of Autonomic Dysreflexia. Bladder related causes include:

- Overfull bladder
- Kidney or bladder stones
- High pressure voiding
- Urinary tract infection
- Blocked catheter
- Defective drainage system

Signs and symptoms

- Pounding headache
- Flushing/or blotching above the level of the cord damage
- Pallor below the injury level
- Slow heart rate
- Profuse sweating above injury level
- Palpitations
- Goosebumps
- Blurred vision or seeing spots
- Stuffy nose
- Feeling of doom and gloom, anxiety and apprehension
- Elevated blood pressure

Treatment

- Identify the source if the noxious stimulus
- Remove the stimulus
- Reduce blood pressure by placing the patient in a sitting position in bed
- Check the bladder for volume and catheterise bladder full
- Check drainage system for kinks, blockage
- Check for infection
- Check for constipation

Key Points:

- Regular review is required to identify complications and introduce timely treatments
- If symptoms not relieved medical advice must be sought
- Do not cut catheters or perform bladder washouts to promote deflation of balloon.

Module Eight: Removal of Indwelling Urethral Catheter

Decision to Remove Indwelling Catheter

Date Created: January 2013

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Removal of indwelling catheters should be carried out after careful assessment of the patients' ongoing condition and after consultation with the patient and medical staff, or according to care pathway.

PROCEDURE: Removal of Indwelling Catheter

Indwelling catheters are usually removed early in the morning so that any retention problems can be dealt with during the day

Equipment

Dressing pack	Needle and syringe for specimen collection
Disposable gloves	Universal specimen container
Antimicrobial liquid soap or alcohol-based	Syringe to deflate the catheter balloon
hand rub (ABHR)	
Saline solution	

Ac	tion	Rationale
1.	Explain the procedure to the patient and inform of any potential post catheter complications (urgency, frequency or discomfort caused by irritation of the urethra	Patient is prepared and can plan daily activities
2.	Wash hands with antimicrobial liquid soap or alcohol-based hand rub (ABHR)	To reduce risk of infection
3.	Clamp below the sampling port if urine sample collection required	To obtain an adequate urine sample and to assess whether post catheter antibiotic therapy is needed (if indicated)
	Take a catheter specimen of urine using the sample port	
4.	Wash hands with antimicrobial liquid soap or alcohol-based hand rub (AHBR)	To reduce risk of infection
5.	Wearing gloves, clean the genitalia swabbing away from the urethral opening	To reduce the risk of infection
6.	Release the leg support	For easy removal of catheter
7.	Having checked volume of water in catheter balloon (patient medical	To confirm how much water is in the balloon.

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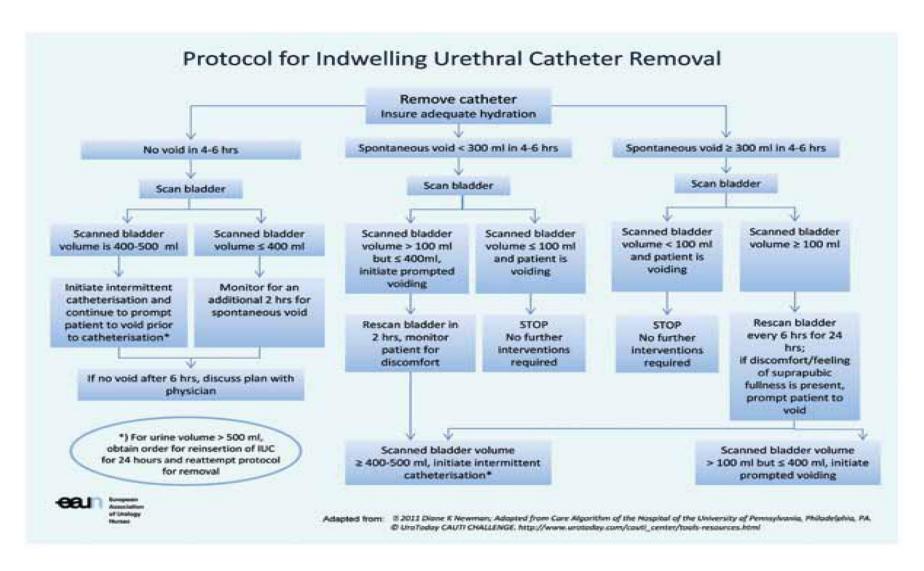
records) use a syringe to deflate	To ensure balloon is completely deflated before removing catheter
8. Ask patient to breathe in and then out. As the patient exhales gently quickly remove the catheter. Male patients: Warn of discomfort as the deflated balloon passes through the prostate gland	To relax pelvic floor muscles
9. Clean genitalia, tidy away equipment and make the patient comfortable	
10. Wash hands with antimicrobial liquid soap or alcohol-based hand rub (ABHR)	
11. Encourage the patient to exercise and drink 2-3 litres of fluid per day	

Pain is often experienced on removal of indwelling catheters due to ridge formation on the catheter balloon. This can be reduced by allowing the balloon to passively deflate rather than applying suction.

The patient will need careful monitoring following removal of the catheter, documentation completed and prompt treatment of post catheter complications

Key Points:

- The time frame for removal of an indwelling catheter is dependent on clinical judgement and findings
- Catheters are only removed following thorough assessment of the individuals ongoing condition and needs
- Careful monitoring following removal of catheter is required



(European Association of Urology Nursing, 2012)

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Potential Problems during Removal of Urethral Catheter.

Problem	Cause	Suggested action
1. Unable to deflate	Damage or faulty valve on	Check the valve for
balloon.	the inflation/ deflation arm	evidence of damage.
	of the catheter.	Try adding 2-3 ml of
		sterile water into inflation
		chamber to dislodge
		blockage.
		If unsuccessful use a
		syringe and needle to
		aspirate the fluid from the
		inflation arm above the
		valve. See 'balloon does not
		deflate' flow chart
		(appendix.5)
	Channel obstruction	Attach a syringe to the
	Charmer observedor	inflation arm and leave in
		place for 20-40 minutes.
		The effect of gravity will
		help the deflation process.
		Squeeze the visible tubing
		to try and displace crystal
		formation in the inflation
2 Wrinkling of the	Balloon unable to return to	channel. Withdraw the catheter
2. Wrinkling of the balloon following	pre-inflation shape	gently on deflation of the
deflation resulting in	resulting in formation of a	balloon. I f resistance felt
formation of a cuff.	ridge	stop the procedure, using
Torridger or a carr	nage	a syringes re insert 1-2mls
		of water back into the
		balloon this will prevent
		cuff formation
3. Pain	Balloon cuffing or	Good preparation and
	sensitivity at the neck of	support throughout the
	the bladder or within the	procedure.
	urethra from the catheter	insert anaesthetic gel into
		drainage port 3-5 minutes
		before attempting removal

If you experience a product failure or difficulty it is important that the manufacturer is contacted and informed of the problem.

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Module Nine: Complications and Monitoring following Removal of Indwelling Catheter

There are several problems that might arise following removal of a urethral catheter and it is vital the healthcare professionals are aware of the actions to take to overcome them.

Frequency and dysuria

This can be caused by inflammation of the urethral mucosa. Inform the patient that this is a common effect of catheter removal. This should resolve after three or four micturition events. Encourage the patient to drink 2-3 litre of fluid per day and inform medical staff if does not resolve.

Retention of urine

This can be caused by patient anxiety or a genuine inability to pass urine. Encourage the patient to increase their fluid intake. Offer warm baths to promote relaxation. If unsuccessful perform manual palpation of the bladder or bladder scan and inform medical staff. If the problem continues the patient may require re-catheterisation.

Bacteriuria/ Urinary Tract Infection

This can result in frequency and dysuria. Encourage fluid intake 2-3 litres per day to promote the flushing of the bladder. Collect a specimen of urine if symptoms persist and inform medical staff.

Small amounts of blood start, throughout or at the end of the urine stream

This can be caused by minor damage to the urethra. Encourage an increase in fluid intake. Reassure the patient that this symptom is harmless but to be observant for signs of infection.

Incontinence

Explain to the patient that this should resolve within 24-48 hours. If not it is worth considering taking a urine sample to exclude UTI.

Dribbling incontinence

Explain to the patient that this should subside within a few days. Give the patient pads and encourage pelvic floor exercises. This is a short term complication.

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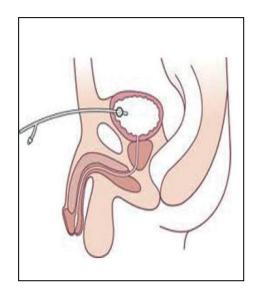
QUESTIONS

- If completing the workbook only submit to your CNE/CNS or equivalent for marking and assignment of professional development hours.
- If completing male catheterisation clinical skill take workbook and questions to your workshop for marking.

Q1.

Label the diagram using the descriptions provided.

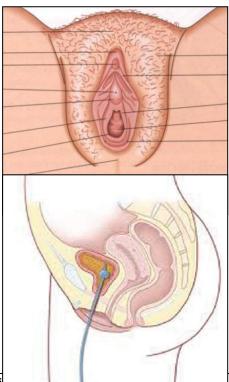
- o Penis
- Urinary Bladder
- o Urethra
- o Rectum
- o Prostrate



Q2.

Label the diagrams using the descriptions provided.

- o Bladder
- Rectum
- Urethral meatus
- Vagina
- Clitoris



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Q3. What type of consent is required for urinary catheterisation?
Q4.List four areas of cultural safety that may help in relation to gaining consent for catheterisation.
1
2
3
4
Q5. List 6 indications for catheterisation within CDHB.
1.
2
4
56.
6
Q6. What are the potential side effects of using a catheter that is too large?
Q7. Why must normal saline not be used to inflate catheter balloons?
Q8. What symptoms might you observe to indicate that the balloon is over inflated?

Q9. Drainage bags are available in a variety of sizes incorporating different features. Identify each drainage system described.

Description	Drainage bag
Non-return valve	?
Short term use	
Used for bladder irrigation	
Generally used in hospital	?
120cm length tubing	
Commonly has an outlet port	
Can reduce trauma	?
Tubing lengths can vary	
Sample access port	

Q10. List	the 4 risk factors related to hospital – acquired urinary tract Infection
1	
2	
3	
Q11. Who	en you would wash your hands when performing urethral catheterisation?

- Q12. Drinking sufficient fluids helps to:
 - a) Dilute the urine
 - b) Reduces the risk of catheter encrustation
 - c) Reduces the risk of catheter blockage
 - d) All of above

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Q13. Are these statements true or false?

- Maintaining a closed bag system reduces the risk of catheter related infection.
- Urine bags are routinely emptied every 4 hours.
- Urine drainage bags can be placed on the floor when in hospital.
- A separate clean container must be used for each individual when emptying drainage bags.

Q14. How long following Urethoplasty or radical pros	istatectorriv mav a catheter de misertet	13
--	--	----

- A) > 4 weeks
- B) > 6 weeks
- C) > 8 weeks
- D) >10weeks

Q15. Complete the table by placing the statements under the correct heading

- Routine catheter change
- Initial catheter for relief of acute & chronic retention
- To insert 3 way catheter for bladder irrigation
- Where urethral meatus cannot be visualised
- Where there is known difficulty in catheterising
- For instillation of intravescial bladder therapy
- Current history of injury or pelvic trauma

CDHB Nurse Role	Needing direction	Must not undertake

Q16. Complete the simple solutions for the potential male catheterisation complication

Complication	Simple solution
Phimosis	
Slight bleeding on catheter insertion	
Unable to advance catheter	
Urine does not flow	

Q17. Name the potential catheter related problem from its description

Description	Name of problem
 Poor aseptic technique 	
Inadequate urethral cleaning	
Contamination of catheter tip	
 Incorrect catheter size 	
Movement of catheter in urethra	
 Urethral mucosal irritation 	
Psychological trauma	
Unstable bladder	

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Q18. What bladder problems can cause Autonomic Dysreflexia?	
Q19. List the signs and symptoms of A	Autonomic Dysreflexia
Q20. When would be the best time to	remove an indwelling catheter and why?
Q21. How could you reduce the level	of pain associated with catheter removal?
Q22. State what can cause the followi catheter	ng complications after removal of an indwelling
COMPLICATION	CAUSE
Frequency & Dysuria	
Retention of urine	
Small amounts of blood when passing urine	
FOR COMPLETION OF WORKPOOK ONLY	
FOR COMPLETION OF WORKBOOK ONLY Candidate name:	Area of work:
Date of completion:	Date of review:
Verified by:	Profession development hours awarded:
Title:	
Comment/ Feedback	•

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Glossary of Terms

ABHR	Alcohol Based Hand Rub
ANTT	Aseptic Non-Touch Technique
Anti-cholinergic	Medication that reduces bladder spasm.
Assessment	Thorough review of the patient's condition, physical examination and investigations.
Autonomic Dysreflexia	A syndrome that affects those with a spinal cord lesion above the mid-thoracic level.
BSU	Burwood Spinal Unit
Bacteraemia	Bacteria present in the blood stream
Bacteriuria	Bacteria present in the urine
Calculi	The accumulation of salts/debris to form 'stones' in the bladder
Decontamination	Process of removing or destroying contamination to prevent or reduce the risk of infection
Hamaturia	Blood in the urine
pH	A scale which gives the acidity or alkalinity of the urine
PPE	Personal Protective Equipment

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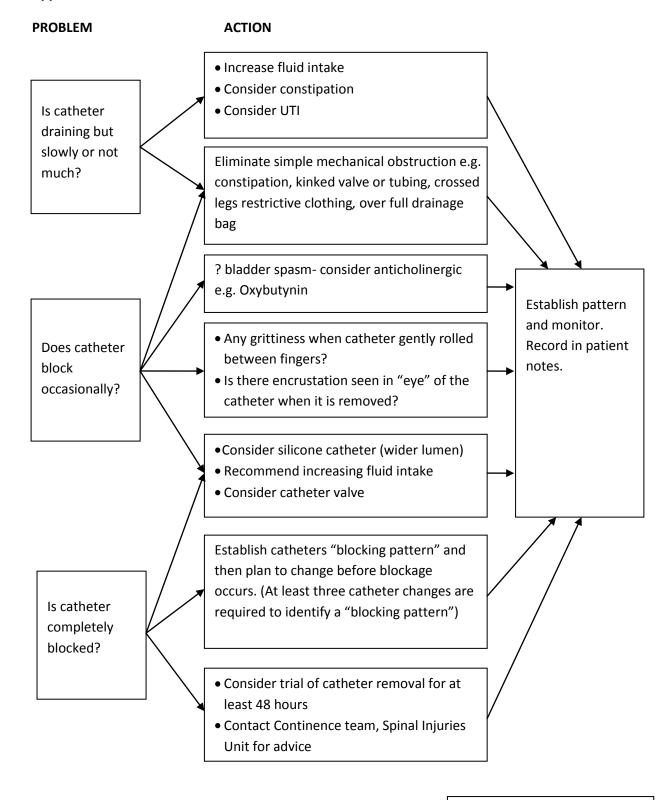
Appendix1:- CATHETER PROBLEM SOLVING FLOW CHART: URINE DOES NOT DRAIN

PROBLEM ACTION Empty Bag Drainage bag > 2/3 full? Ν Check positioning of drainage bag and tubing - is the bag below the level of Adjust position of drainage bag and/or the bladder? tubing -is the tubing kinked or twisted -is the valve inside the bag Ν Bladder mucosa obstructing Raise the bag above level of bladder catheter "eyes" (suction briefly, to relieve suction pressure pressure)? Ν Recurrent Catheter blockage by mucus, Try to relieve blockage and identify cause; catheter -"milk" the catheter gently along its length cellular or bacterial debris and blockages- see -change catheter and observe nature of /or mineral deposits **Blocking** blockage (cut open eye of catheter to view catheter flow lumen) chart Ν Catheter blocked by pressure Treat immediate cause of blockage and Υ from faecal loading in lower reassess management of bowels bowel? Ν Catheter blocked by bladder Change catheter and perform Cystoscopy calculi? and removal of stones Unexplained problem?-change catheter and record details. Record problem, actions and outcome in patient notes. Acknowledgement ICS, 2009

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Appendix2:- CATHETER PROBLEM SOLVING FLOW CHARTS: BLOCKING CATHETER



Acknowledgement NMA 2010

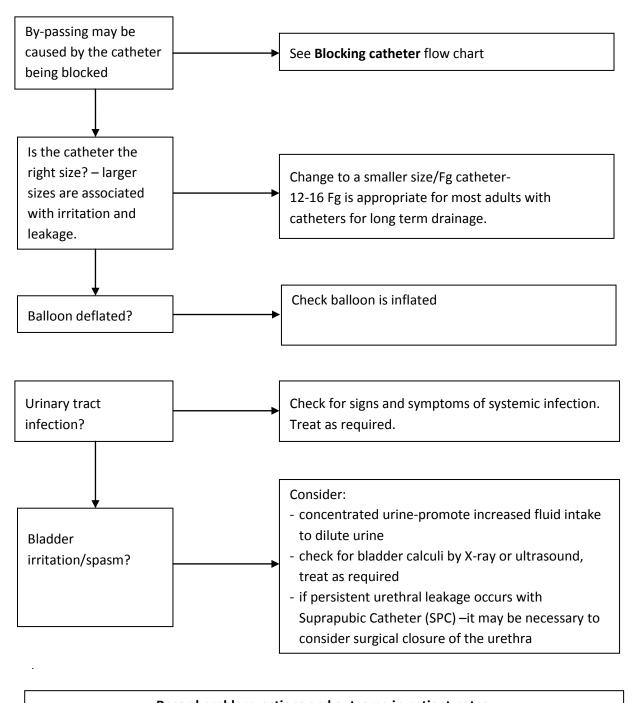
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Appendix3:- CATHETER PROBLEM SOLVING FLOW CHART: URINE BY PASSING

PROBLEM ACTION



Record problem, actions and outcome in patient notes.

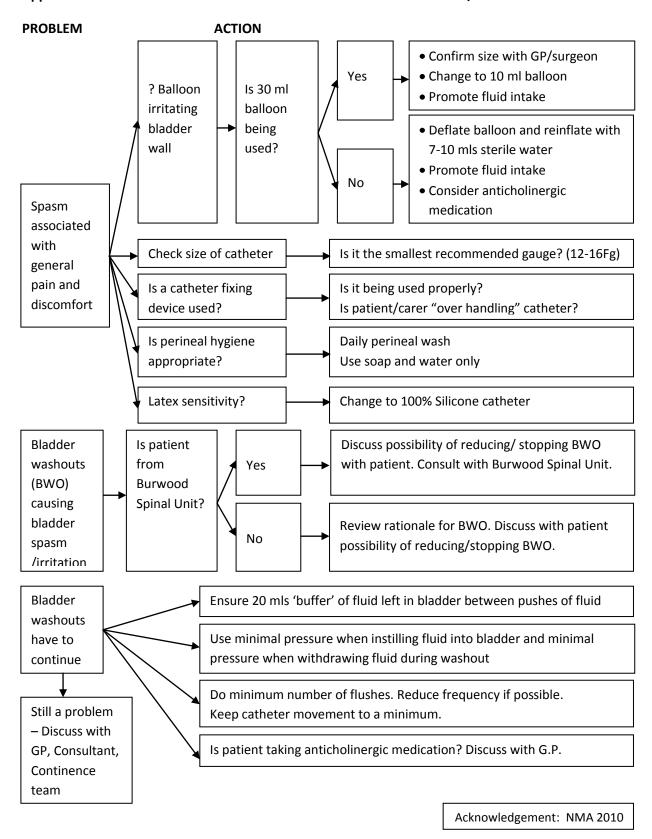
Acknowledgement ICS 2009

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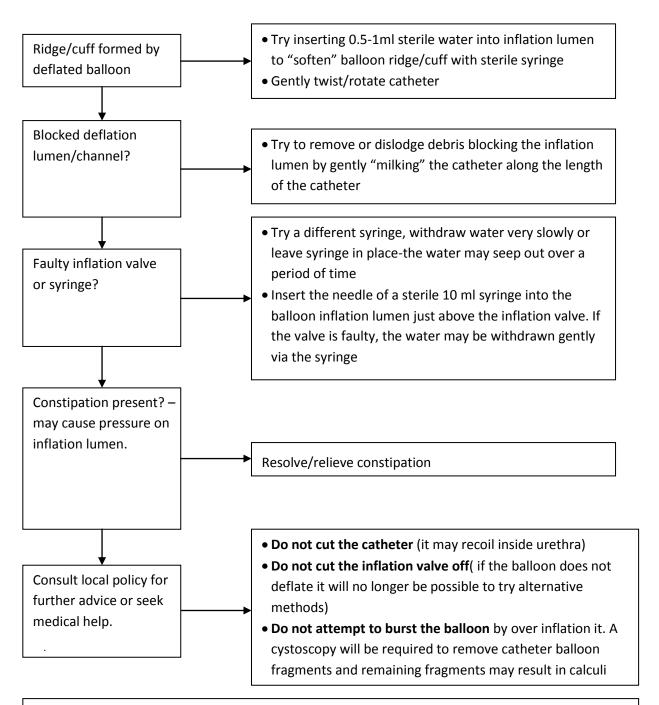
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Appendix4:- CATHETER PROBLEM SOLVING FLOW CHART: BLADDER AND/OR URETHRAL SPASM



Appendix5:- CATHETER PROBLEM SOLVING FLOW CHART: BALLOON DOES NOT DEFLATE PROBLEM ACTION



Record problem, actions and outcome in patient notes.

Record catheter details, batch number/expiry date etc and report to supplier/manufacturer.

Acknowledgement ICS 2009

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Appendix 6:- MALE CATHETERISATION CLINICAL SKILLS ACHEIVEMENT



Male Catheterisation			
Clinical Skill Achievement			
	(to be complet	ted by C	NS/CNE or equivalent)
Name:	(Surname)	(First N	lame/s)
Ward/Dept:			
	ARE TO BE COMPLETED:		
2. Completion of self learning package Signature: Date: (CNE/ CNS or equivalent)			
3 . Attended V	Vorkshop		
Signatur	CONE/CNS or equivalent)	_	Date:
4. Practical Skills Assessment Form Completed: Date:			
(CNE/CNS/CTC or equivalent)			
Entered on to individual training record			
		date:	
	Sign	ature:	

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Male Catheterisation

Clinical Skills Assessment Form

Name:	Clinical area:	Date:

		met/ not met	Comments
1.	Explain and discuss the procedure	met/ not met	Comments
1.	with the patient and obtain verbal		
	consent.		
2.	Screen the procedure area.		
3.	Assist the patient into a comfortable		
٦.	position in a supine position with legs		
	extended.		
4.	Wash hands using antimicrobial		
••	liquid soap or alcohol-based hand		
	scrub (ABHR)		
5.	Put on plastic apron		
6.	Prepare the trolley placing all		
0.	required equipment on the bottom		
	shelf after checking expiry dates and		
	pack integrity.		
7.	Open catheter pack and		
	supplementary equipment using		
	aseptic technique.		
8.	Put on protective eyewear		
9.	Wash hands using antimicrobial		
	liquid soap or alcohol-based hand		
	rub (ABHR)		
10.	Put on sterile gloves		
11.	Place sterile towel across patient's		
	thigh and under buttocks		
12.	Wrap a sterile topical swab around		
	the penis. Retract the foreskin, if		
	necessary, and clean the glans penis		
	with the cleaning solution.		
13.	Remove cleaning equipment from		
	the sterile field		
14.	Insert the nozzle of the lubricating		
	gel into the urethra. Squeeze the gel		
	into the urethra, remove the nozzle		
	and discard the tube. Massage the		
	gel along the urethra.		
15.	Squeeze the penis and wait for about		
1.0	5 minutes		
16.	Grasp the penis behind the glans,		
	raising it unit it is almost totally		
	extended. Maintain grasp of the		
	penis until the procedure is		
17	Completed		
17.	,		
	opened catheter between the		
	patient's legs. Insert the catheter 15-		
	25cm gently until urine flows.		

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18.	If resistance is felt at the external sphincter, increase the traction on the penis slightly and apply steady, gentle pressure on the catheter. Ask the patient to strain gently as if passing urine	
19.	When urine begins to flow advance the catheter almost to its bifurcation	
20.	Gently inflate the balloon according to the manufacturer's directions. Having ensured that the catheter is draining properly	
21.	Withdraw the catheter slightly and attach it to the drainage system	
22.	Support the catheter by attaching to the patients leg. Ensuring the catheter does not become taut when the patient is mobilising and that the lumen of the catheter is not occluded by the support device	
23.	Ensure that the glans of the penis are clean and dry and then reduce or reposition the foreskin	
24.	Make sure the patient is comfortable. Ensure that the area is clean and dry	
25.	Measure the amount of urine drained and obtain a sample if required	
26.	Dispose of equipment in yellow plastic clinical waste bag and seal.	
27.	Document in clinical notes: - Date - Reason for catheterisation - Catheter type, length and size. - Amount of water in balloon - Any problems with procedure - Urinary drainage - Nature of urine drained (haematuria, cloudy, clear etc.) - Whether specimen sent for further investigation - Review date / catheter change	

_	
Accessor	Name:

Signature:

Date:

(This documentation can be included as evidence for PDRP. Please **DO NOT** return to CSU)

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