Intermittent Catheterisation What do we need to know? Workshop

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Let me introduce myself...

- 29 yrs working at Radboudumc; department of Urology
- 4 yrs Urology ward; 25 yrs outpatients clinic
- Courses / trainings / studies
 - Stoma / continence courses
 - Nurse practitioner
 - PhD traject > 28 jan 2016 defence thesis
- Board member/ member workinggroups / member guidelines
- Research; presentations; education









Surface: 41.543 km²

Inhabitants: 16.947.904 (2015)





Content workshop

 State of the art / Current standard of Intermittent Catheterisation/ IC (15 min.)

- Workshop (15 min.)
 - 5 groups of 6 persons
 - Discuss cases >> chairman



- Plenary discussion (15 min.)
 - Chairman discuss the case and group outcome

Do you have a protocol / guideline and patient leaflet for teaching IC?



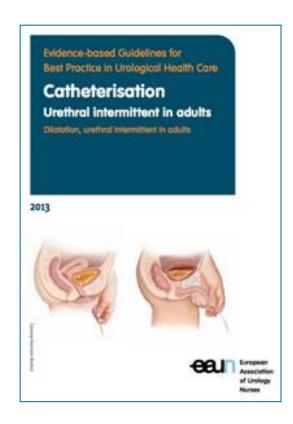




State of the art/ Current standard

What are we talking about???

- Definition
 - EAU / ICS/ EAUN/ others???
 - Important to use same definition!
- Literature search
 - Different definitions are described
 - In the method part: often bad or not described how the teaching was done, which catheters were used and how follow up was organised
 - Most literature retrospective



Definitions

- Intermittent (in/out) catheterisation (IC)¹
 - Drainage or aspiration of the bladder or a urinary reservoir with subsequent removal of the catheter
- Often used abbrevations for the techniques used by patients²
 - ISC: Intermittent Self Catheterisation
 - CISC: Clean Intermittent Self Catheterisation
 - CIC: Clean Intermittent Catheterisation (technique used by

caretakers)

Dilatation

- Condition of an anatomical structure being dilated beyond its current dimensions
- 1. Abrams P, Cardozo L, Fall M, et al. The standardisation of terminology in lower urinary tract function: report from the Standardisation Sub- committee of the International Continence Society. Neurourol Urodyn 2002;21(2):167-178.
- 2. Vahr S, et al "Evidence-based Guidelines for Best Practice in Urological Health Care Catheterisation Urethral intermittent in adults Dilatation, urethral intermittent in adults 2013

Definitions

- Urethral stricture/stenosis
 - A single or multiple narrowing(s) along the length of the urethra
 - More common in men than in women
- Bladder neck stenosis
 - Abnormal narrowing of the bladder neck
- Catheter-associated urinary tract infection (CAUTI)
 - Bacteriuria or funguria with a count of more than 10³ CFU/ml

Definitions

- Acute retention of urine
 - Painful, palpable or percussable bladder, when the patient is unable to pass urine
- Chronic retention of urine
 - Non-painful bladder, which remains palpable or percussable after the patient has passed urine. Such patients may be incontinent
- Post Void Residual (PVR)
 - The volume of urine left in the bladder at the end of micturition

- 1. Abrams P, Cardozo L, Fall M, et al. The standardisation of terminology in lower urinary tract function: report from the Standardisation Sub-committee of the International Continence Society. Neurourol Urodyn 2002;21(2):167-178.
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Intermitterent catheterisation (IC)

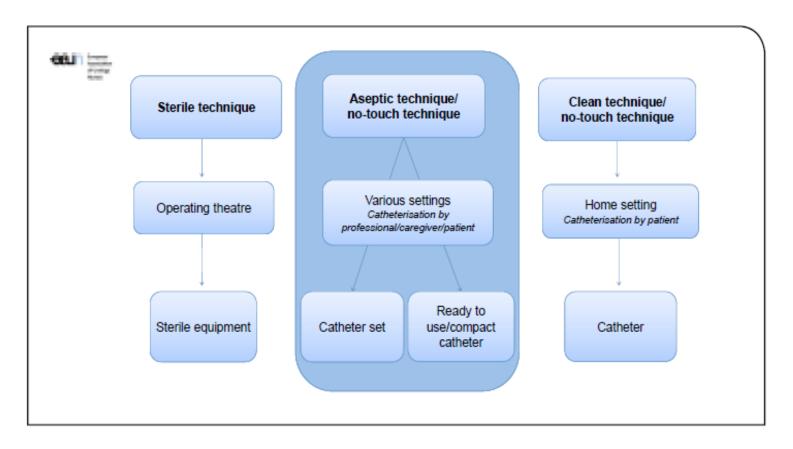
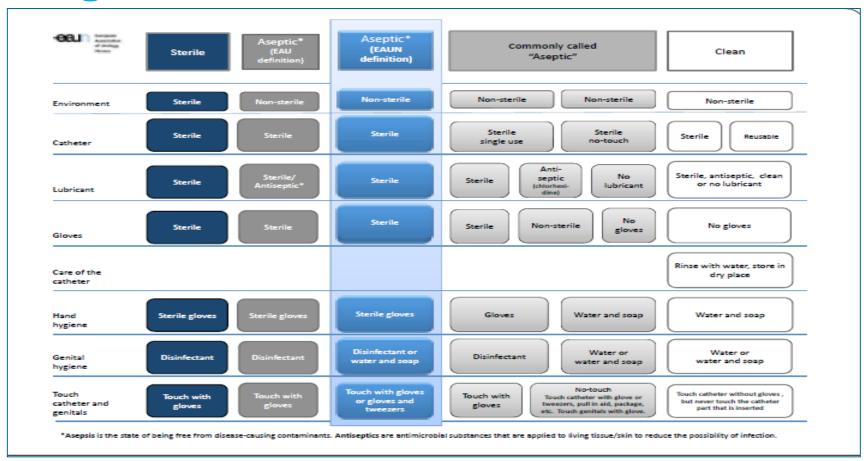
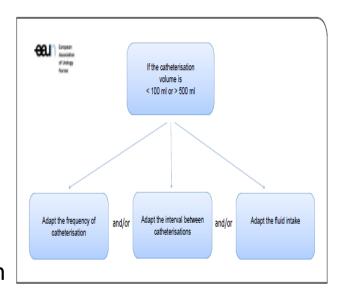


Diagram IC - EAUN



Frequency of IC

- In the early days of establishing IC, observation and management of bladder emptying and residual (PVR) / retention are important to measure
 - Completing a voiding diary can be helpful
 - The diary can be used to decide whether amendment to IC frequency is necessary¹
- In general:
 - IC frequently enough to avoid PVR > 500 ml
 - Retention: 4–6 daily (vol: 300–500 ml)
 - Other measures also important such as bladder volume, detrusor pressures on filling, presence of reflux, and renal function



Important issues regarding IC

- Coaching and teaching skills
 - How to motivate a patient
 - How to give the instruction and follow up care
 - Time / place
 - Men, woman, child, care-giver
 - Leaflets/ book/ website
 - Different kind of catheters and aids
 - Patients with different kind of diagnoses
 - Most common complications
- IC in everyday life / compliance
 - IC as much as needed (frequency)
 - Qualtiy of life
 - Follow up care

Patient information

3 x per dag: bij opstaan, in de middag, voor de nacht 4 x per dag: bij opstaan, rond 12.00 uur, rond 17.00 uur, voor de nacht ☐ 5 x per dag: bij opstaan, rond 11.00 uur, rond 15.00 uur, rond 19.00 uur en waker dan 5 x per dag, namelijk: keer. Tijdstippen in overleg met ver-

Informatiefolder zelfkatheterisatie

NB:

Datum: .

Verpleegkundige: Katheter

Merk.

Lengte

Katheterisatie advies

pleegkundige.

anders, namelijk

1 x per dag bij opstaan 1x per dag voor de nacht

2 x per dag: bij opstaan en voor de nacht

Individueel zorgplan

- Bij buikpijn of aandrang eventueel eerder katheteriseren.
- In principe hoeft u's nachts niet te katheteriseren, tenzij u wakker wordt en het gevoel heeft dat uw blaas gevuld is.
- In uitzonderingsgevallen krijgt u het advies om wel 's nachts te kathete-
- Als het plassen weer op gang komt en de hoeveelheid bij katheteriseren neemt af, kunt u minder vaak gaan katheteriseren. Als u hierover vragen heeft, neemt u dan contact op met de verpleegkundige continentiezorg.
- Als u regelmatig bij katheteriseren meer dan 500 ml urine verwijdert, kan het zinvol zijn om vaker te gaan katheteriseren. Als u hierover vragen heeft, neemt u dan contact op met de verpleegkundige continentiezorg.

Patients need to know ☐ Why IC is necessary

Basic anatomical knowledge about the urogenital tract

☐ How to perform the IC procedure

□ The number of times to perform IC

■ Which difficulties may occur during or after the catheterisation procedure

Name, size and length of catheter

How to store the catheters correctly

To check the expiry date of the material before use

How to prepare the catheter for use

How to dispose of the catheters safely

☐ How to obtain supplies of the catheter [69]

☐ That the technique of IC may vary in different settings (e.g., hospital, outpatient clinic, and home)

Importance of fluid intake

☐ Importance of a healthy diet to avoid constipation

☐ Importance of good hygiene

☐ How to avoid UTI

How to recognise symptoms or the common signs of UTI

burning on urination

frequency and/or urgency

offensive smelling urine

cloudy/dark urine

feeling tired or shaky

fever or chills

O haematuria [17, 69, 78]

difficulties with either insertion or removal of the catheter

Availability of appropriate aids to help with catheterisation such as mirrors,

hand grips, leg abductors, integrated drainage bags, and travel kits

■ What to do when travelling abroad

■ When to contact a health care professional

Contact the health care professional in case of

pain during or after catheterisation

catheterisation becoming more difficult

haematuria

fever

problems in bowel movement

lower back pain

discoloured or malodorous urine



IC in everyday life / compliance/ QoL

- Incorporation of IC into daily life is not considered easy¹
 - Requires exercise, planning and location
 - Despite the act of IC is not difficult, most patients prefer to IC at home^{1 2}
 - Small toilets, poor lighting, sink outside toilet (men) can make IC outdoors difficult^{1 2}
- In everyday life, the preparation before is more difficult than IC itself. Patients felt constrained by the need to plan convenient times to IC themselves²
 - Patients keep frequency as low as possible
 - Building structure in the IC moments
 - Most patients are rigid towards frequency of IC
- Reimbursements of supplies differs per country
- 1. Vahr S, et al "Evidence-based Guidelines for Best Pratice in Urological Health Care Catheterisation Urethral intermittent in adults Dilatation, urethral intermittent in adults 2013
- 2. Cobussen-Boekhorst H, et al 'Patients' experience with intermittent catheterisation in everyday life' Journal of Clinical Nursing 2016

Follow up care

- Early follow up to ensure performing IC is successfully or offer help with any difficulties^{1 2}
 - Telephone / digital
 - Outpatients consultation
 - Contact details in case professional help is needed
 - Contact details available support networks
 - Home visit by community nurse
- Ongoing support (by consultation or telephone) to improve
 - QoL
 - Prevent complications

^{1.} Vahr S, et al "Evidence-based Guidelines for Best Pratice in Urological Health Care Catheterisation Urethral intermittent in adults Dilatation, urethral intermittent in adults 2013

Materials

- Catheters for intermittent catheterisation
 - Disposable/ non-disposable
 - Man / women / child
 - Coated / non-coated
 - Ready to use catheters
 - Specific aids

