Adult Emergency Nurse Protocol



Urinary Retention

SESLHDPR/407

- Early identification and treatment of life threatening causes of urinary retention, escalation of care for patients at risk.
- Early initiation of treatment / clinical care and symptom management within benchmark time.

Assessment Criteria: On assessment the patient should have one or more of the following signs / symptoms:

Dysuria

Abdominal discomfort

More than 500mls in bladder post

void

Escalation Criteria: Immediate life-threatening presentations that require exclusion and referral to a Senior Medical Officer (SMO):

🔁 Haematuria

Recent urological surgical procedure

Pelvic trauma

Primary Survey:

- Airway: patency
- Circulation: perfusion, BP, heart rate, temperature
- Breathing: resp rate, accessory muscle use, air entry, SpO₂.
- Disability: GCS, pupils, limb strength

Notify CNUM and SMO if any of following red flags is identified from Primary Survey.

- Airway at risk
- Partial / full obstruction
- Disability decreased LOC
 GCS ≤ 14 or any fall in GCS by 2 points
- Breathing respiratory distress
- RR < 5 or >30 /min
- SpO₂ < 90%
- Exposure
- Temperature < 35.5°C or > 38.5°C
- BGL < 3mmol/L or > 20mmol/L
- Circulation shock / altered perfusion
- HR < 40bpm or > 140bpm
- BP < 90mmHg or > 200mmHg
- Postural drop > 20mmHg
- Capillary return > 2 sec

History:

- Presenting complaint
- Allergies
- Medications: Anticoagulant Therapy, Anti-hypertensives, Diabetic meds, Analgesics, Inhalers, Chemotherapy, Non-prescription meds, any recent change to meds
- Past medical past surgical history relevant Radical Prostatectomy, Bladder Cancer.
- Last ate / drank and last menstrual period (LMP)
- Events and environment leading to presentation
- Pain Assessment / Score: PQRST (Palliating/ provoking factors, Quality, Region/radiation, Severity, Time onset)
- Associated signs / symptoms: nature of pain / radiation, nausea, vomiting, urinary symptoms, haematuria, clots
- History: family, trauma and travel

Systems Assessment:

Focused Abdominal assessment:

- Inspection: Scars, masses, distention, bruising, discoloration, midline pulsations, devices and movement of patient; is the abdomen distended
- Auscultation: Bowel sound; hyperactive, reduced or absent
- · Palpation: tenderness, guarding, rebound tenderness, masses, pulses; Identify location of pain; palpate bladder

Notify CNUM and Senior Medical Officer (SMO) if any of following red flags is identified from History or Systems Assessment.

- Recent bladder /urinary tract surgery
- Cancer to the urinary system
- Unrelieved pain

- Gross haematuria with clots
- Hypotension

Signs of urinary sepsis

Elderly > 65 years

- Acute confusion / agitation
- Decreased urine output oliguria

Investigations / Diagnostics:

Bedside:

- BGL: If < 3 or > 20mmol/L notify SMO ₽
- ECG: [as indicated] look for Arrhythmia , AMI ₽
- Urinalysis / MSU (if urinary symptoms)
- Bladder Scan (look for residual >500mL)

Laboratory / Radiology:

 Pathology: Refer to local nurse initiated STOP FBC, UEC, LFTs, Coags, Venous Lactate, MSU (if sepsis suspected)

Group and Hold (if bleeding suspected)

Blood Cultures x 2 (if Temp ≤35 or ≥38.5°C)

• Radiology: Not generally indicated – refer to SMO

Nursing Interventions / Management Plan:

Resuscitation / Stabilisation:

- Oxygen therapy and cardiac monitor
- IV Cannulation (consider large bore i.e. 16-18gauge)
- IV Fluids: Sodium Chloride 0.9% 1 Litre stat (discuss with SMO)

Symptomatic Treatment:

• Antiemetic: as per district standing order

• Analgesia: as per district standing order

• IV Fluids: as per district standing order

Review date: June 2021

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Supportive Treatment:

- Nil By Mouth (NBM)
- Monitor vital signs as clinically indicated (BP, HR, T, RR, SpO₂)
- Monitor neurological status GCS as clinically indicated
- Monitor pain assessment / score

- Fluid Balance Chart (FBC)
- Indwelling Catheter Device Maximum 2 attempts
- Consider Bladder Irrigation via IDC: 3 way irrigation catheter 22fg (discuss with SMO)

Practice Tips / Hints: 3-5

- Urinary Retention is the inability to completely or partially empty the bladder of urine. Retention with overflow can be associated
 with long term or chronic urinary retention. The bladder is unable to empty completely though the patient still voids frequent small
 amounts.
- Medications with Anticholinergic properties can contribute to urinary retention.
- If gross haematuria present, discuss with SMO regarding need for 3 way irrigation catheter.
- Attempt size 12 -14fg for females, 14 16 for males. Two (2) attempts maximum.
- Do not give more than 15mLs lignocaine gel. If size 18fg IDC must be placed by Medical Officer.
- An 'Introducer' is only for use by a Urology Registrar/Consultant.
- A 3-way irrigating IDC is necessary to breakdown and dilute blood clots. Only size 22fg available, and must be inserted by Medical Officer. Irrigation with appropriate solution should commence immediately.
- Post IDC insertion, do not inflate balloon in male without urine output.
- Check time out form for consent requirements.
- <u>DO NOT</u> attempt catheterisation of any patients who have had a recent urological surgical procedure within the past 6 weeks refer to an ED SMO.
- Suprapubic catheters may be placed by appropriately trained Senior Emergency Department (ED) and Urology Medical Officers.
- Large residual volumes suggest chronic or acute on chronic significant retention and are at risk of decompression bleeds as well as post obstructive diuresis. Haematuria predisposes to clot retention. Patients with these problems need a period of observation and treatment and are inappropriate for early discharge. Intravenous antibiotics as indicated.
- A discussion between the Urology Registrar/Consultant and ED SMO needs to take place to ensure admission to the appropriate designated area, and a clear management plan and Continence Service follow up.

Further Reading / References:

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Acknowledgements: SESLHD Adult Emergency Nurse Protocols were developed and adapted with permission from:

- Murphy, M (2007) Emergency Department Toolkits. Westmead Hospital SWAHS
- Hodge, A (2011) Emergency Department Clinical Pathways. Prince of Wales Hospital SESLHD.

Revision and Approval History:

Date	Revision No.	Author and Approval
September 2014	0	Developed by – Samantha Connelly A/Clinical Nurse Consultant, Emergency Sutherland Hospital
December 2014	1	Edited by Leanne Horvat - Clinical Stream Nurse Manager, Emergency / Critical Care & Emergency Stream CNC/ NE Working Group SESLHD
February 2015	2	Endorsed by SESLHD Emergency Clinical Stream Committee on 27 February 2015
March 2015	3	Endorsed by: SESLHD District Drug & QUM Committee meeting on 12 March 2015
April 2015	3	Endorsed by: SESLHD Clinical and Quality Council on 15 April 2015 (T15/14555)
January 2018	4	Processed by Executive Services prior to submission to SESLHD DQUM
February 2018	4	Endorsed by: SESLHD Drug & Quality Use of Medicine Committee





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April 2021	5	Update by Wayne Varndell, Clinical Nurse Consultant, Prince of Wales Hospital Emergency Department
May 2021	5	Approved by Executive Sponsor.
June 2021	5	Endorsed by: SESLHD Quality Use of Medicine Committee