

RETAINER Data Collection

Record number (automatic)

Study ID
(Centre ID followed by 3 Digit subject number, e.g.
UHL001, UHL 002...)

Has patient consented to be contacted in the future
as part of RETAINER II (patient reported outcome
measures following hernia repair?)

- Yes
 No

Gender

- Male
 Female

Patient Age

Patient BMI

ASA Grade

- 1
 2
 3
 4
 5

Current Medications (Tick all that apply)

- None
 Alpha-blocker (e.g. Tamsulosin, Silodosin,
Doxazosin, Alfuzosin, Terazosin)
 5-Alpha reductase inhibitor (e.g. Dutasteride,
Finasteride)
 Dutasteride/Tamsulosin (Combodart)
 Anti-androgen therapy (hormone manipulation, e.g.
for prostate cancer)
 Urological Anti-Cholinergic (e.g. Solifenacin,
Fesoterodine, Darifenacin, Trospium, Propiverine,
Oxybutynin patch/tablet)
 Non-urological medication with powerful
anti-cholinergic properties (e.g. certain
psychiatric and anti-Parkinson medications)
 Mirabegron (Betmiga)
 Solifenacin/Tamsulosin (Vesomni)
 Intravesical Botox in past 12 months

Known Neurological Condition with Potential to Affect
Voiding

- None
 Spinal Cord Injury
 Spina bifida
 Multiple Sclerosis
 Other neurological condition with potential to
affect voiding

Has the patient ever been diagnosed with one of the following urological conditions?

- None
- BPH (benign prostatic hyperplasia)
- Prostate cancer
- Urethral stricture
- Bladder neck stenosis
- Hypospadias or other congenital anomaly of the lower genitourinary tract
- Detrusor failure
- Overactive bladder

Has the patient ever had surgery on the bladder or prostate? (Purely diagnostic procedures e.g. cystoscopy not included)

- Never
- TURP (trans-urethral resection of prostate)
- Bladder neck incision or dilation
- TURBT (transurethral resection of bladder tumour)
- Prostatectomy (removal of prostate) for cancer or benign disease via any approach
- Urethral stricture surgery (urethroplasty/urethral dilation/any)
- Botox injection to bladder within past year
- Bladder augmentation or other complex reconstruction

Has patient had previous episode of urinary retention requiring a catheter?

- Yes
- No

IPSS Score

- N/A - female patient
- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23
- 24
- 25
- 26
- 27
- 28
- 29
- 30
- 31
- 32
- 33
- 34
- 35

Post void residual measurement pre-operatively, in millilitres (If possible to obtain. A reading from previous 12 months is acceptable)

- Could not obtain
- < 50ml
- 50-100ml
- 100-150ml
- 150-200ml
- 200-250ml
- 250-300ml
- 300-350ml
- 350-400ml
- >400ml

When did the patient's bowels last open prior to surgery?

- Day of surgery
- Day before surgery
- 2 days before surgery
- >2 days before surgery

Time of surgery

- 7am - 1pm
- 1pm-5pm
- After 5pm

Laterality of hernia repair

- Left
- Right
- Bilateral

Approach	<input type="radio"/> Open <input type="radio"/> Laparoscopic <input type="radio"/> Robotic <input type="radio"/> Minimally Invasive Converted to Open
----------	---

Bladder involved in hernia?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unsure
-----------------------------	---

Type of anaesthesia used? Please tick all that apply.	<input type="checkbox"/> General <input type="checkbox"/> Spinal <input type="checkbox"/> Epidural <input type="checkbox"/> Local
---	--

If general anaesthesia, were any of the following agents used?	<input type="checkbox"/> No <input type="checkbox"/> GA not used or agents not known <input type="checkbox"/> Glycopyrrolate <input type="checkbox"/> Atropine <input type="checkbox"/> Diazepam <input type="checkbox"/> Thiopentone <input type="checkbox"/> Propofol <input type="checkbox"/> Isoflurane <input type="checkbox"/> Sevoflurane <input type="checkbox"/> Enflurane
--	--

If spinal or epidural anaesthesia, which of the following agents were used? (please tick all that apply)	<input type="checkbox"/> N/A (no spinal/epidural used) <input type="checkbox"/> Bupivacaine <input type="checkbox"/> Levobupivacaine <input type="checkbox"/> Fentanyl <input type="checkbox"/> Sufentanil <input type="checkbox"/> None of these <input type="checkbox"/> Not sure
--	---

If local anaesthetic used, which drug?	<input type="radio"/> N/A (no local used) <input type="radio"/> Levobupivacaine (Chirocaine / Marcaine) <input type="radio"/> Lidocaine (Lignocaine) <input type="radio"/> Mixture of Levobupivacaine / Lidocaine <input type="radio"/> Other <input type="radio"/> Not sure
--	---

Perioperative analgesics administered (Intraoperatively or within 8 hours, tick all that apply)	<input type="checkbox"/> Paracetamol <input type="checkbox"/> NSAIDs (non steroidal anti-inflammatories) <input type="checkbox"/> Opioids <input type="checkbox"/> Steroids <input type="checkbox"/> Clonidine
---	--

Perioperative IV fluids, volume infused (millilitres)	_____
---	-------

Was a urinary catheter inserted during or prior to the procedure and removed prior to reversal of anaesthesia?	<input type="radio"/> Yes <input type="radio"/> No
--	---

Duration of surgery, skin-to-skin (minutes)	<input type="radio"/> < 30 minutes <input type="radio"/> 30-60 minutes <input type="radio"/> 60-120 minutes <input type="radio"/> >120 minutes <input type="radio"/> Unknown
---	--

Intraoperative injuries recognised?	<input type="checkbox"/> None <input type="checkbox"/> Bowel injury <input type="checkbox"/> Urological injury <input type="checkbox"/> Ilioinguinal nerve injury/intentional sacrifice <input type="checkbox"/> Other
-------------------------------------	--

Mesh used?	<input type="radio"/> Yes <input type="radio"/> No
------------	---

Type of mesh used?	<input type="radio"/> None <input type="radio"/> Non absorbable (e.g. polypropylene, PTFE, polyester) <input type="radio"/> Absorbable (e.g. Vicryl) <input type="radio"/> Composite (e.g. PP, Polyglactin 'Vypro', Collagen 'Parietex') <input type="radio"/> Biologic mesh (human dermis, porcine dermis) <input type="radio"/> Bovine (e.g. 'Permacol', 'Alloderm', 'Surgisis')
--------------------	---

Drain used?	<input type="radio"/> Yes <input type="radio"/> No
-------------	---

Did patient resume normal voiding (passage of urine) postoperatively (on the day of surgery) by clinician's judgement?	<input type="radio"/> Yes <input type="radio"/> No
--	---

Was a bladder scan performed postoperatively for a post-void residual measurement (PVR) as part of routine clinical care?	<input type="radio"/> Yes <input type="radio"/> No
---	---

If a PVR was measured postoperatively, what was the value?	<input type="radio"/> PVR not measured <input type="radio"/> < 50ml <input type="radio"/> 50-99ml <input type="radio"/> 100-199ml <input type="radio"/> 200-299ml <input type="radio"/> 300ml or more
--	--

Was patient admitted to hospital unexpectedly on day of surgery (e.g. from a planned day surgery pathway?)	<input type="radio"/> Yes <input type="radio"/> No
--	---

If patient was admitted to hospital on the day of surgery, was urinary retention the primary reason for admission or a significant contributor?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Not admitted
---	---

Was patient readmitted to hospital (following discharge) within 30 days of surgery?	<input type="radio"/> Yes <input type="radio"/> No
---	---

If patient was readmitted to hospital following discharge within 30 days of surgery, was urinary retention the primary reason for admission or a significant contributor?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> No readmission
---	---

Was a diagnosis of urinary retention made within 1 week of surgery? (If the answer is no, the data entry for this patient is complete)	<input type="radio"/> Yes <input type="radio"/> No
--	---

The remaining questions apply only if urinary retention developed.
If urinary retention occurred, when was the diagnosis made?

- Day of surgery
- Day 1 postoperatively
- Day 2 postoperatively
- Day 3 postoperatively
- Day 4 postoperatively
- Day 5 postoperatively
- Day 6 postoperatively
- Day 7 postoperatively

How was the diagnosis of retention made? Please tick all that apply.

- Failure to void over a given period
- Suprapubic pain/pressure
- Palpable bladder
- Bladder scan reading above a given level

How did urinary retention manifest itself?

- Patient did not pass urine at all, or passed only small dribbles, postoperatively
- Patient initially seemed to be passing urine normally, but subsequently retention evolved

If diagnosis was made by failure to void, at how many hours postoperatively or from the last void was this made?

- < 4
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- >12

If retention was diagnosed by a bladder scan, at what scan volume was diagnosis made?

- < 300ml
- 300 - 400ml
- 400 - 500ml
- 500 - 600ml
- 600 - 700ml
- 700 - 800ml
- 800 - 900ml
- 900 - 1,000ml
- >1,000ml

If urinary catheter placed, what was the residual volume of urine?

- < 300ml
- 300 - 400ml
- 400 - 500ml
- 500 - 600ml
- 600 - 700ml
- 700 - 800ml
- 800 - 900ml
- 900 - 1,000ml
- > 1,000ml

Digital rectal exam (DRE) findings (tick all that apply)

- DRE not done
- Small prostate
- Moderate prostate
- Large prostate
- Suspicious / hard / malignant prostate
- Stool in rectum
- "Normal"

How was retention managed in the first instance?	<input type="radio"/> Urethral catheter (indwelling) <input type="radio"/> Self-intermittent catheterisation <input type="radio"/> Suprapubic catheter
--	--

If urethral catheter was placed or attempted, how many catheterisation attempts were required?	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 or more <input type="radio"/> No attempts to pass urethral catheter
--	---

Was a urology consult performed?	<input type="radio"/> Yes <input type="radio"/> No
----------------------------------	---

Was an alpha blocker started? (e.g. Tamsulosin, Silodosin, Alfuzosin) (do not include combination pills e.g. Combodart here)	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Patient was already taking one
--	---

Was a 5-alpha reductase inhibitor started? (e.g. Dutasteride, Finasteride) (do not include combination pills e.g. Combodart here)	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Patient was already taking one
---	---

Was a tablet combining an alpha blocker and a 5-alpha reductase inhibitor started? (e.g. Dutasteride/Tamsulosin 'Combodart')	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Patient was already taking one
--	---

Were any longterm medications stopped due to the urinary retention?	<input type="radio"/> No <input type="radio"/> Anti-cholinergic stopped (including combination tablets e.g. 'Vesomni') <input type="radio"/> Mirabegron (Betmiga) stopped
---	---

Were laxatives/suppositories/enemas given as constipation was thought to be contributing to urinary retention?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Takes regularly, not changed
--	---

If admitted, how many inpatient nights were involved?	<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> >5 <input type="radio"/> Not admitted
---	---

Was urinary retention, or complications related to same, the primary reason for this length of stay?	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A - not admitted
--	---

Did the patient develop an acute kidney injury within the first postoperative week?	<input type="radio"/> Yes <input type="radio"/> No
---	---

Was a urinary tract infection detected in this patient?	<input type="radio"/> Yes - on day of admission <input type="radio"/> Yes - between postoperative day 1 and day 7 or discharge <input type="radio"/> No
---	---

Was a course of antibiotics used to treat a suspected urinary tract infection?	<input type="radio"/> Yes <input type="radio"/> No
--	---

Did patient suffer pain / a frequent sensation of needing to void / bladder spasm with a urinary catheter?

- Yes
 No
 N/A - did not have an indwelling catheter

Were any additional complications seen related to catheterisation? Please tick all that apply

- Traumatic catheterisation
 Haematuria
 Catheter dislodged with balloon inflated
 Delirium
 Impaired mobility due to catheterisation

Did patient undergo successful trial without catheter? (i.e. resume normal voiding without an indwelling urethral or suprapubic catheter and without the need to perform self-catheterisation in the longterm)

- Yes
 No

From time of initial catheterisation, on what day was trial without catheter passed?

- Day 1
 Day 2
 Day 3
 Day 4
 Day 5
 Day 7
 Day 7-14
 > Day 14
 Trial without catheter not passed

How many times has a trial of catheter removal been performed in this patient following the postoperative urinary retention?

- 1
 2
 3
 >3
 No trials without catheter to date
 N/A as catheter was not inserted

Was urological intervention/training performed whilst patient was admitted? (Tick all that apply)

- Urology service was required to place a urethral catheter
 Cystoscopy was required to place a urethral catheter
 Suprapubic catheter was inserted
 Urethral stricture dilation was performed
 Transurethral resection of prostate was performed
 Patient was trained in intermittent self-catheterisation

What was the patient's status at discharge?

- Discharged without catheter, voiding by self
 Discharged without catheter, performing intermittent self catheterisation
 Discharged with indwelling urethral catheter, on free drainage
 Discharged with indwelling urethral catheter, with flip-flo valve
 Discharged with suprapubic catheter, on free drainage
 Discharged with suprapubic catheter, with flip-flo valve

Was urology follow-up planned from time of discharge?

- Yes
 No