

Managing acute flank pain in adults

Version 58

For effective investigation and management of ureteric colic and its mimics

Do not use if urinary calculi known to be present or if patient is pregnant but seek senior urology advice

Disclaimer:
This is a clinical template; clinicians should always use judgment when managing individual patients

Reapproved by ED guidelines committee on 26Apr23
Review due Apr26 . Trust Ref: C71/2016

Patient details

Full name: _____

DoB: _____

Unit number: _____

(use sticker if available)

1 Blood results

WBC		Na	
Hb		K	
Platelets		Urea	
Corrected Ca		Crea	
Urate		eGFR	

2 Atypical features?

YES, at least one of the below

- Haemodynamic instability
- Expansile abdominal mass or known AAA
- Abdominal tenderness +/- peritonism
- New-onset abdominal distension
- Diarrhoea
- Non-colicky pain character
- Temperature >37.9° C
- <1+ blood on urine dip (see box 2)
- Low Hb suggesting acute blood loss

NO, none of the above

3 Admission necessary?

YES, as at least one of the below

- Temp >37.9° C
- Other abnormal vital signs
- Significantly raised WCC
- Acute renal impairment
- Stone in single functioning or transplanted kidney
- Bilateral obstructing stones
- Inadequate pain/nausea control

NO, as none of the above

4 Discharge bundle

Arrange

- KUB X-ray before discharge (**ALWAYS** needed for follow-up arrangements)
- Follow-up by completing ICE referral (Service Refs > Urology > Stone MDT) ensure Ca²⁺ and urate results available

Provide

- Diclofenac TTO - **NB**: If NSAID (tick here if contraindicated)
- Tamsulosin 0.4mg OD TTO for 4/52 IF stone in distal ureter **AND** >5mm **AND** no contraindications as per BNF (tick here if not needed or unsuitable)

Recommend

- Taking regular Paracetamol
- Stone retrieval (if patient aware of it passing and able to 'catch' it)
- Return to ED if they develop uncontrolled pain, temperature or rigors, or urinary retention
- Accessing the British Association of Urological Surgeons '[BAUS](#)' advice [page for patients with urinary calculi](#) (advise them to search online for

[baus patients kidney stones](#)

or point their mobile to the QR code)



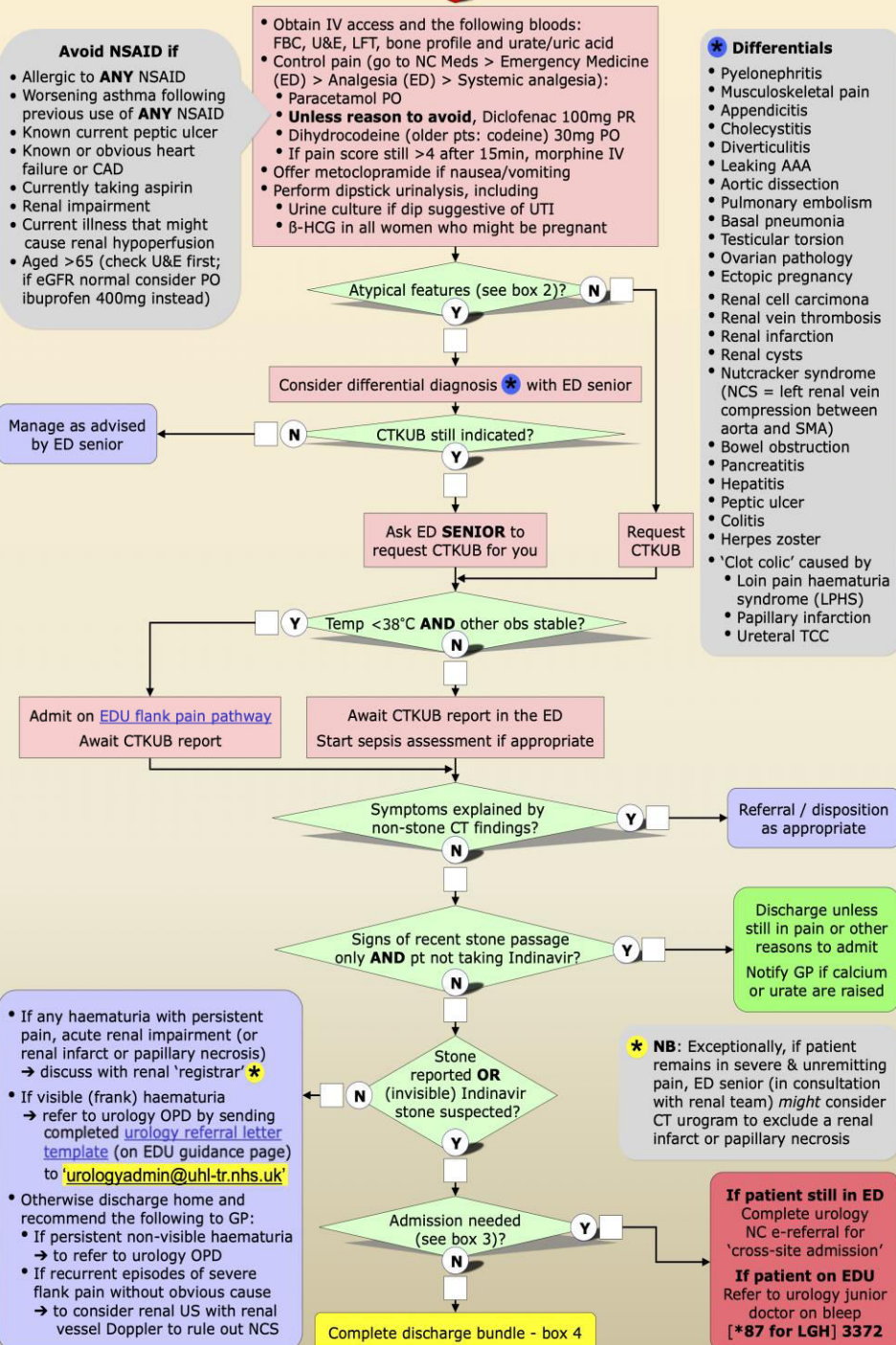
- Obtain IV access and the following bloods: FBC, U&E, LFT, bone profile and urate/uric acid
- Control pain (go to NC Meds > Emergency Medicine (ED) > Analgesia (ED) > Systemic analgesia):
 - Paracetamol PO
 - **Unless reason to avoid**, Diclofenac 100mg PR
 - Dihydrocodeine (older pts: codeine) 30mg PO
 - If pain score still >4 after 15min, morphine IV
- Offer metoclopramide if nausea/vomiting
- Perform dipstick urinalysis, including
 - Urine culture if dip suggestive of UTI
 - β-HCG in all women who might be pregnant

Differentials

- Pyelonephritis
- Musculoskeletal pain
- Appendicitis
- Cholecystitis
- Diverticulitis
- Leaking AAA
- Aortic dissection
- Pulmonary embolism
- Basal pneumonia
- Testicular torsion
- Ovarian pathology
- Ectopic pregnancy
- Renal cell carcinoma
- Renal vein thrombosis
- Renal infarction
- Renal cysts
- Nutcracker syndrome (NCS = left renal vein compression between aorta and SMA)
- Bowel obstruction
- Pancreatitis
- Hepatitis
- Peptic ulcer
- Colitis
- Herpes zoster
- 'Clot colic' caused by
 - Loin pain haematuria syndrome (LPHS)
 - Papillary infarction
 - Ureteral TCC

Avoid NSAID if

- Allergic to **ANY** NSAID
- Worsening asthma following previous use of **ANY** NSAID
- Known current peptic ulcer
- Known or obvious heart failure or CAD
- Currently taking aspirin
- Renal impairment
- Current illness that might cause renal hypoperfusion
- Aged >65 (check U&E first; if eGFR normal consider PO ibuprofen 400mg instead)



Assessment carried out by _____

Print name _____ Signature _____ Role _____ Date _____