

Nottinghamshire Area Prescribing Committee

URINARY TRACT INFECTIONS Acute Pyelonephritis in Adults / Upper UTI

Define as:

✓ Patients with pyelonephritis usually have

flank/ loin pain
 rigors or fever of ≥ 38°C or <36°C

vomitingkidney tenderness

- ✓ Patients with lower urinary tract symptoms and signs of systemic infection.
- ✓ Patients with known or possible structural or functional abnormalities of the urinary tract and signs of systemic infection.
- Send a pre-treatment MSU sample and review empirical treatment with the result. (See Diagnosis of UTI in Adults - Quick Reference).
- Advise patients to represent for admission if they have no response to treatment within 24 hours or their condition deteriorates.
- If multi-resistant infection with no suitable oral options and are systemically well, consider referral for IV antibiotics as an outpatient (OPAT).
- If signs and symptoms are limited to dysuria, new nocturia, and/or cloudy urine, then see <u>Lower UTI/Cystitis Guideline</u>.

Antibiotic Treatment:

Drug	Dose	Duration of Treatment
First line: Cefalexin (not suitable in severe penicillin allergy)	1g three times a day	7-10 days
Second line: Trimethoprim (only if lab report shows sensitive strain)	200mg BD twice a day	14 days
Third line (if severe penicillin allergy): <u>Ciprofloxacin</u> ^	500mg twice a day	7 days

[^] **Note**: Fluoroquinolones should only be used when other antibiotics are inappropriate. If a penicillin allergy is recorded, the exact nature of the reaction should be clarified including whether other beta lactams (e.g., cephalosporins) have been previously tolerated. Fluoroquinolones can cause long-lasting (up to months or years) disabling, and potentially irreversible side effects, sometimes affecting multiple systems, organ classes, and senses. Please refer here for further information on MHRA alerts.

- For pregnant patients, see UTI in Pregnancy.
- For children, see UTI in Children.
- For information on complicated UTIs, see <u>Complicated UTI</u>s.
- The <u>TARGET antibiotics toolkit hub</u> <u>includes leaflets to discuss with patients</u>, <u>diagnostic tools</u>, and other UTI resources.

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