

Atypical and Recurrent UTI

Consider predisposing factors:

Atypical UTI includes:

- . Seriously ill
- . Poor urine flow
- . Abdominal or bladder mass
- . Raised creatinine
- . Septicaemia
- . Failure to respond to treatment with suitable antibiotics within 48 hours
- . Infection with none-E. coli organisms

[Diagnosis and Management of Acute UTI in Children](#)

Recurrent UTI:

- . Two or more episodes of UTI with acute upper UTI (acute pyelonephritis), or
- . One episode of UT with acute upper UTI plus 1 or more episodes of UTI with lower UTI (cystitis), or
- . Three or more episodes of UTI with lower UTI

Constipation ([NENC Healthier Together constipation pathway](#))Poor fluid intake (ERIC <https://www.eric.org.uk/blog/how-to-get-kids-to-drink-more-water>)

< 6 MONTHS

Recommended imaging schedule for babies younger than 6 months:

Test	Responds well to treatment within 48 hours	Atypical urinary tract infection	Recurrent urinary tract infection
Ultrasound during the acute infection	No	Yes	Yes
Ultrasound within 6 weeks	Yes, if abnormal consider (MCUG)	No	No
DMSA scan 4 to 6 months after the acute infection	No	Yes	Yes
MCUG	No	Yes	Yes

6 MONTHS - 3 YEARS

Recommended imaging schedule for babies and children between 6 months to under 3 years:

Test	Responds well to treatment within 48 hours	Atypical urinary tract infection	Recurrent urinary tract infection
Ultrasound during the acute infection	No	Yes	No
Ultrasound within 6 weeks	No	No	Yes
DMSA scan 4 to 6 months after the acute infection	No	Yes	Yes
MCUG	No	Yes	No

> 3 YEARS

Recommended imaging schedule for children 3 years or older:

Test	Responds well to treatment within 48 hours	Atypical urinary tract infection	Recurrent urinary tract infection
Ultrasound during the acute infection	No	Yes	No
Ultrasound within 6 weeks	No	No	Yes
DMSA scan 4 to 6 months after the acute infection	No	No	Yes
MCUG	No	No	No

Prophylaxis

- . Do not routinely give prophylactic antibiotics to babies and children following first-time UTI.
- . See the NICE guideline on urinary tract infection (recurrent): antimicrobial prescribing for prophylactic antibiotic treatment for recurrent UTI in babies and children.