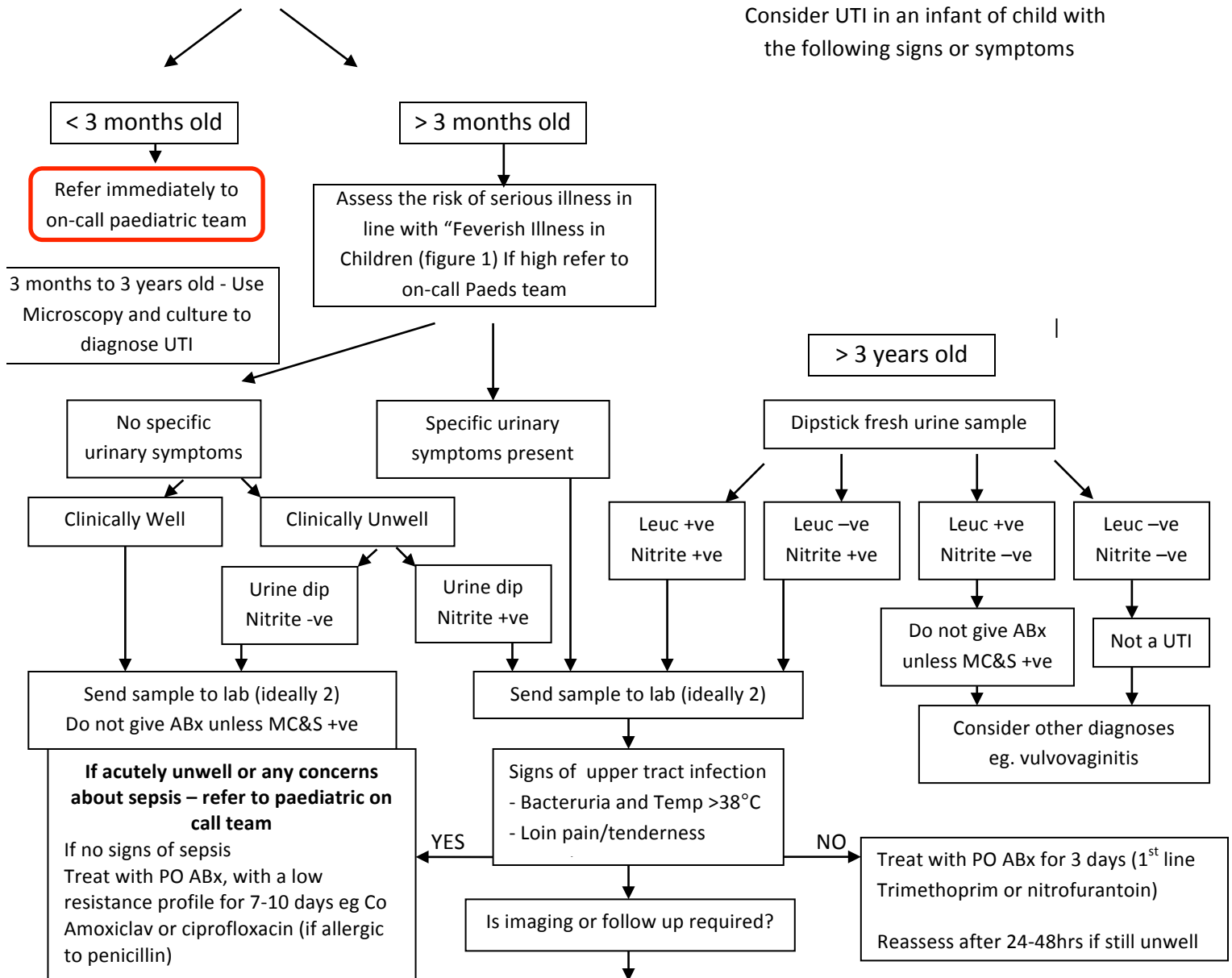


Suspect UTI clinically from signs/symptoms

Consider UTI in an infant or child with the following signs or symptoms



| | Typical UTI | Atypical UTI – 1 or more of below | Recurrent UTI |
|--------------------------------|--|---|--|
| | <ul style="list-style-type: none"> No features of an atypical or recurrent UTI present | <ul style="list-style-type: none"> Seriously ill/sepsis Poor urinary flow Abdominal mass Raised creatinine(routine U&E not required) Non E.coli organismcultured Failure to respond to Rx within 48 hrs | <ul style="list-style-type: none"> ≥ 3 lower tract UTIs ≥ 2 upper tract UTI's 1 upper tract and ≥ 2 lower tract UTI's |
| Under 6 months old | <ul style="list-style-type: none"> - Arrange a routine USS within 6 weeks. - If USS abnormal refer to paediatric OPD | <ul style="list-style-type: none"> - Arrange an acute USS within 1 week - Refer to paed OPD for further investigation | <ul style="list-style-type: none"> - Arrange an acute USS within 1 week - Refer to paed OPD for further investigation |
| 6 months to 3 years old | <ul style="list-style-type: none"> - No imaging or follow up required | <ul style="list-style-type: none"> - Arrange an acute USS within 1 week UNLESS the only atypical feature is that it is a non E.coli organism, where the USS can be within 6 weeks. - Refer to paed OPD for further investigation | <ul style="list-style-type: none"> - Arrange a routine USS within 6 weeks. - Refer to paed OPD for further investigation |
| More than 3 years old | <ul style="list-style-type: none"> - No imaging or follow up required | <ul style="list-style-type: none"> - Arrange acute USS within 1 week UNLESS the only atypical feature is that it is a non E.coli organism, where the USS can be within 6 weeks. - If USS abnormal refer to paediatrics | <ul style="list-style-type: none"> - Arrange a routine USS within 6 weeks. - Refer to paediatrics for further investigation |

TOP TIPS

- ❖ Interpreting urine culture can be difficult as contamination is common
- ❖ Try to send 2 clean catch samples before starting antibiotics
- ❖ NEVER use bags to collect urines for MC&S as this increases the risk of contamination significantly
- ❖ A urine with a bacterial growth $<10^5$ cfu/ml and no WCC is unlikely to be a true UTI
- ❖ A urine that has a mixed growth with a bacterial count $>10^5$ cfu/ml may be a true UTI, especially if WCC are present
- ❖ If you are unsure if the result is a true UTI, discuss with your local Paed or Micro team before requesting further investigations
- ❖ Important to discuss the importance of completing treatment to parents and taking preventative measures e.g wiping front to back.

Fig.1.

| | Green—Low risk | Amber—Intermediate risk | Red—High risk |
|-----------------------------------|--|--|--|
| Colour (of skin, lips, or tongue) | Normal colour | Pallor reported by parent or carer | Pale, mottled, ashen, or blue |
| Activity | Responds normally to social cues Content or smiles Stays awake or awakens quickly Strong normal cry or not crying | Not responding normally to social cues No smile Wakes only with prolonged stimulation Decreased activity | No response to social cues Appears ill to a healthcare professional (see box of definitions of terms) Does not wake, or if roused does not stay awake Weak, high-pitched, or continuous cry |
| Respiratory | | Nasal flaring Tachypnoea: Respiratory rate (RR) >50 breaths/min at ages 6–12 months RR >40 breaths/min at ages >12 months Oxygen saturation ≤95% in air Crackles in the chest | Grunting Tachypnoea: RR >60 breaths/min Moderate or severe chest indrawing |
| Circulation and hydration | Normal skin and eyes Moist mucous membranes | Tachycardia: >160 beats/min at age <12 months >150 beats/min at age 12–24 months >140 beats/min at age 2–5 years Capillary refill time ≥3 seconds Dry mucous membranes Poor feeding in infants Reduced urine output | Reduced skin turgor |
| Other | None of the amber or red symptoms or signs | Temperature ≥39°C at ages 3–6 months Fever for ≥5 days Rigors (see definitions box) Swelling of a limb or joint Non-weight bearing limb or not using an extremity | Temperature ≥38°C at ages <3 months Non-blanching rash Bulging fontanelle Neck stiffness Status epilepticus Focal neurological signs Focal seizures |

This traffic light table should be used in conjunction with the recommendations in this guideline on investigations and initial management in children with fever

For same/next day Paediatric advice from Paediatric consultant:

- **Evelina : Phone :** 07557 159092 (11am-7pm weekdays)
- **Evelina : Email:** general.paediatrics@nhs.net (answer within 24hrs on weekdays)
- **KCH : Phone:** 02032996613 (option 3), (8.30am – midnight weekdays, 8 30am - 8pm weekend)
- **KCH : Email :** via Choose and Book for a response within 24 hrs Mon-Fri.

For General Paediatrics referral

KCH : via Choose and Book

Evelina : Letter FAO General Paediatrics by :

- Post : Sky Level 6, Evelina London Children's Hospital
- Fax: 020 7188 4612, or
- Email: <mailto:general.paediatrics@nhs.net>

NB : Specialist Paediatric Kidney services are at the Evelina Children's Hospital : if in doubt re referral discuss with same/next day Paediatric consultant advice service (above)