

# NATIONAL INSTITUTE FOR HEALTH AND CARE EXCELLENCE

## Guideline scope update

### Urinary tract infection in under 16s: diagnosis and management (update)

This guideline will update the NICE guideline on urinary tract infection in under 16s: diagnosis and management. Initially published 2007, updates in 2017 and 2018.

The guideline will be developed using the methods and processes outlined in [developing NICE guidelines: the manual](#).

#### **1 Why the update is needed**

New evidence that could affect recommendations was identified through the surveillance process. Topic experts, including those who helped to develop the existing guideline, advised NICE on whether areas should be updated or new areas added. Full details are set out in the [surveillance review decision](#).

#### **Why the guideline is needed**

See the [original scope for CG54](#).

#### **2 Who the guideline is for**

This guideline is for:

- healthcare professionals
- commissioners
- children from birth to 16 years with urinary tract infection, their families and carers.

NICE guidelines cover health and care in England. Decisions on how they apply in other UK countries are made by ministers in the [Welsh Government](#), [Scottish Government](#) and [Northern Ireland Executive](#).

## **Equality considerations**

An equality impact assessment was completed for the 2017 guideline update and has been reviewed to consider if there are equality considerations in relation to this update. The assessment lists equality issues identified, and how they have been addressed.

### **3 What the updated guideline will cover**

#### **3.1 Who is the focus?**

##### **Groups that will be covered**

Children from birth to 16 years.

##### **Groups that will not be covered**

- Children with urinary catheters in situ.
- Children with neurogenic bladders.
- Children already known to have significant pre-existing uropathies.
- Children with underlying renal disease (for example, nephrotic syndrome).
- Children with immunosuppression.
- Children in intensive care units.
- Sexually active girls with recurrent urinary tract infections (prevention and long-term management).

#### **3.2 Settings**

##### **Settings that will be covered**

Primary, secondary and tertiary healthcare.

#### **3.3 Activities, services or aspects of care**

##### **Key areas that will be covered in this update**

We will look at evidence in the area below when developing this update. We will consider making new recommendations or updating existing recommendations in this area only.

- 1 Diagnosis.
  - Symptoms and signs

### Proposed outline for the guideline

The table below outlines all the areas that will be included in the guideline. It sets out what NICE plans to do for each area in this update.

### Proposed outline for the guideline

Area of care	What NICE plans to do
1.1 Diagnosis	Review evidence: update existing recommendations on symptoms and signs as needed (recommendations 1.1.1.1 to 1.1.1.3) Retain all other recommendations in this section (recommendations 1.1.2.1 to 1.1.10.2) (Recommendation 1.1.5.2 refers to the table that follows recommendations 1.1.1.1 to 1.1.1.3 and may need updating if these recommendations are changed)
1.2 Acute management	No evidence review: retain recommendations from existing guideline
1.3 Imaging tests	No evidence review: retain recommendations from existing guideline
1.4 Surgical intervention	No evidence review: retain recommendations from existing guideline
1.5 Follow-up	No evidence review: retain recommendations from existing guideline
1.6 Information and advice for children, young people and parents or carers	No evidence review: retain recommendations from existing guideline

Recommendations in areas that are being retained from the existing guideline may be edited to ensure that they meet current editorial standards and reflect the current policy and practice context.

### 3.4 Economic aspects

We will take economic aspects into account by reviewing the economic evidence when making recommendations. The health technology report that

triggered this update provides details of an economic model relating to this review question. This economic analysis and any other relevant economic reviews can be used to inform the committee's decision making and no further economic modelling is needed.

### 3.5 Key issues and draft question

Draft review question for this update:

- 1 Diagnosis
  - What symptoms and signs are suggestive of urinary tract infection in under 16s?

#### PICO table for the review question

<b>Review question</b>	What symptoms and signs are suggestive of urinary tract infection in under 16s?
<b>Population</b>	Infants and children from birth to 16 years.
<b>Index tests</b>	Symptoms or signs reported by parents or carers. Symptoms expressed by infants or children. Signs reported by clinicians. Clinicians' opinion on the likelihood of a urinary tract infection (clinical diagnosis before dipstick and culture).
<b>Reference standard</b>	Microbiologically confirmed urinary tract infection.
<b>Outcomes</b>	Diagnostic accuracy metrics. Positive and negative likelihood ratios. Positive and negative predictive values. Sensitivity and specificity. Diagnostic association measures. Odds ratio.

## 4 NICE quality standards

### **NICE quality standards that may need to be revised or updated when this guideline is published**

Urinary tract infection in children and young people (2017) NICE quality standard 36.

## 5 Further information

The guideline is expected to be published in August 2022.

You can follow [progress of the guideline](#).

Our website has [information about how NICE guidelines are developed](#).

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