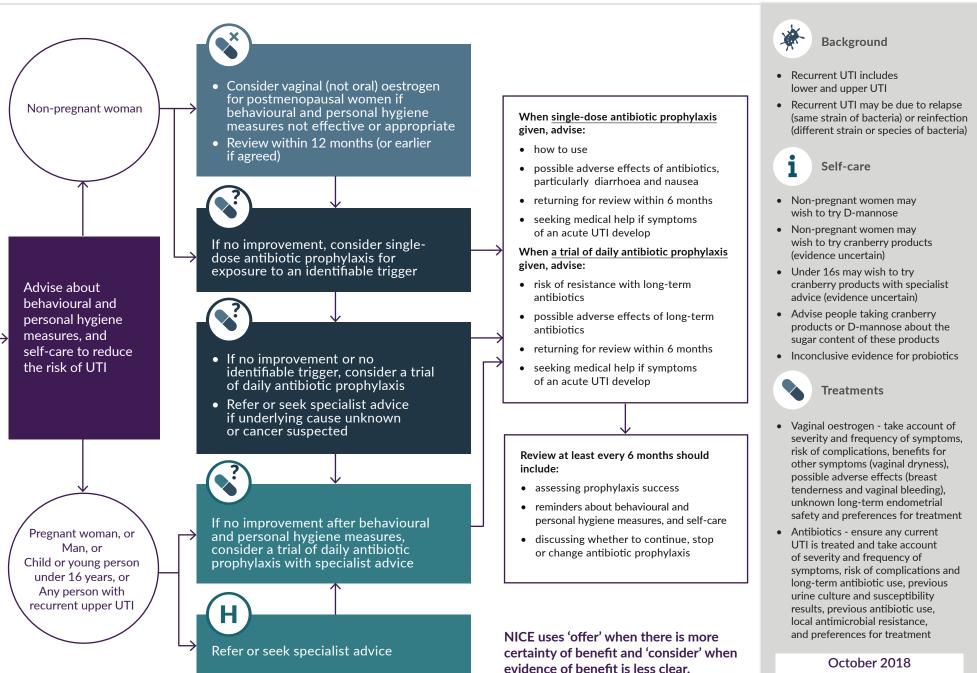
## **UTI (recurrent): antimicrobial prescribing**

## **NICE** National Institute for Health and Care Excellence



## **UTI (recurrent): antimicrobial prescribing**

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Choice of antibiotic: people aged 16 years and over

Antibiotic prophylaxis <sup>1, 2</sup>	Dosage <sup>3</sup>
First choice	
Trimethoprim <sup>4</sup>	200 mg single dose when exposed to a trigger, <b>or</b> 100 mg at night
Nitrofurantoin - if eGFR ≥45 ml/minute⁵	100 mg single dose when exposed to a trigger, <b>or</b> 50 to 100 mg at night
Second choice	
Amoxicillin <sup>6</sup>	500 mg single dose when exposed to a trigger, <b>or</b> 250 mg at night
Cefalexin	500 mg single dose when exposed to a trigger, <b>or</b> 125 mg at night
impairment, renal impairment <sup>2</sup> Choose antibiotics accordin, with rotational use based on treating an acute UTI. <sup>3</sup> Doses given are by mouth u <sup>4</sup> Teratogenic risk in first trime Manufacturers advise contrai characteristics). <sup>5</sup> Avoid at term in pregnancy; <sup>6</sup> Amoxicillin is not licensed for The prescriber should follow decision. Informed consent should	e and dosing in specific populations, for example, hepatic t, pregnancy and breast-feeding. g to recent culture and susceptibility results where possible, local policies. Select a different antibiotic for prophylaxis if using immediate-release medicines, unless otherwise stated. ester of pregnancy (folate antagonist; BNF, August 2018). indicated in pregnancy (trimethoprim summary of product may produce neonatal haemolysis (BNF, August 2018). or preventing UTIs, so use for this indication would be off label. relevant professional guidance, taking full responsibility for the hould be obtained and documented. See the General Medical escribing and managing medicines and devices for further
Abbreviations: eGFR, estimat	ad alamanular fituation rate

When exercising their judgement, professionals and practitioners are expected to take this guideline fully into account, alongside the individual needs, preferences and values of their patients or the people using their service. It is not mandatory to apply the recommendations, and the guideline does not override the responsibility to make decisions appropriate to the circumstances of the individual, in consultation with them and their families and carers or guardian.

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Choice of antibiotic: children and young people under 16 years

Antibiotic prophylaxis <sup>1, 2</sup>	Dosage <sup>3</sup>	
Children under 3 months - Refer to paediatric specialist		
Children aged 3 months and over (specialist advice only) - First choice		
Trimethoprim <sup>₄</sup>	3 to 5 months, 2 mg/kg at night (maximum 100 mg per dose) or 12.5 mg at night 6 months to 5 years, 2 mg/kg at night (maximum 100 mg per dose) or 25 mg at night 6 to 11 years, 2 mg/kg at night (maximum 100 mg per dose) or 50 mg at night 12 to 15 years, 100 mg at night	
Nitrofurantoin – if eGFR ≥45 ml/minute⁵	3 months to 11 years, 1 mg/kg at night 12 to 15 years, 50 to 100 mg at night	
Children aged 3 months and over (specialist advice only) - Second choice		
Cefalexin	3 months to 15 years, 12.5 mg/kg at night (maximum 125 mg per dose)	
Amoxicillin <sup>6</sup>	3 to 11 months, 62.5 mg at night; 1 to 4 years, 125 mg at night; 5 to 15 years, 250 mg at night	
<sup>1</sup> See BNF for children (BN	FC) for appropriate use and dosing in specific populations, for	

<sup>1</sup>See <u>BNF for children</u> (BNFC) for appropriate use and dosing in specific populations, for example,

hepatic impairment and renal impairment.

<sup>2</sup> Choose antibiotics according to recent culture and susceptibility results where possible, with rotational use based on local policies. Select a different antibiotic for prophylaxis if treating an acute UTI. If 2 or more antibiotics are appropriate, choose the antibiotic with the lowest acquisition cost.

<sup>3</sup> The age bands apply to children of average size and, in practice, the prescriber will use the age bands in conjunction with other factors such as the severity of the condition and the child's size in relation to the average size of children of the same age. Doses given are by mouth using immediate release medicines, unless otherwise stated.

<sup>4</sup> Teratogenic risk in first trimester of pregnancy (folate antagonist; BNFC, August 2018). Manufacturers advise contraindicated in pregnancy (trimethoprim summary of product characteristics).

<sup>5</sup> Avoid at term in pregnancy; may produce neonatal haemolysis (BNFC, August 2018). <sup>6</sup> Amoxicillin is not licensed for preventing UTIs, so use for this indication would be off label. The prescriber should follow relevant professional guidance, taking full responsibility for the decision. Informed consent should be obtained and documented. See the General Medical Council's <u>Good practice in prescribing and managing medicines and devices</u> for further information.

Abbreviations: eGFR, estimated glomerular filtration rate.