

DE-PRESCRIBING URINARY TRACT INFECTION PROPHYLAXIS V2.0

Comments from the Expert Advisory Group

Antibiotic prophylaxis may have been started to prevent recurrent UTIs in a patient under your care. This is mainly a scenario which affects women. There is no evidence of any additional benefit from such prophylaxis beyond 3-6 months. There is significant evidence of harm. The patient should be advised upon initiation that antibiotic prophylaxis is prescribed for a fixed period of time, that there is a risk of side effects and that this is not intended to be a long-term medication.

Identifying patients for review

- > All patients should be reviewed after 3-6 months of antibiotic prophylaxis for recurrent UTIs with a view to stopping them. Documenting and triggering a review date in the patient's record, and on the repeat prescription, is advised to avoid prolonged courses of antibiotics without review.
- > Patients who have breakthrough infections with urine cultures confirming resistance to the prophylactic agent, should have their prophylaxis stopped (exposure to antibiotic without benefit) and a clinical review to discuss ongoing management and/or need for referral. A urine culture is recommended for any breakthrough UTI due to the high risk of resistance.
- > An [UTI Antibiotic Prophylaxis Audit Tool](#) has been created to support GPs/healthcare professionals monitoring their patients on UTI prophylaxis.

Discussing patient concerns about stopping prophylaxis

- > Patients may, understandably, feel anxious about returning to suffering recurrent UTIs when prophylaxis is stopped. However after a prolonged period of antibiotic prophylaxis, many patients can stop without a return of symptoms.
- > Patients should be given appropriate advice regarding continuation of [simple measures to prevent UTI](#) which may help reduce frequency of UTIs (such as increased fluid intake). There is limited evidence for these interventions but, anecdotally, many patients find them effective.
- > The risks of long term antibiotics should be discussed with the patient. These include vulvovaginal candida infections or candida balanitis ('thrush'), *Clostridioides difficile* and adverse effects (such as pulmonary fibrosis or peripheral neuropathy with nitrofurantoin).
- > The increased likelihood of infection with resistant organisms which may have limited treatment options is also important and should be fully discussed.
- > One option to consider (as an interim measure) is to provide 'standby' antibiotics when stopping prophylaxis. This is not generally required.

Recurrence of UTI after stopping antibiotic prophylaxis

- > Consider specialist referral for imaging, cystoscopy, post void residual volumes.
- > In peri- or post-menopausal women consider the possibility of atrophic vaginitis or vulvovaginal dermatitis as a cause of symptoms similar to UTI.
- > Restarting antibiotic prophylaxis should not generally be triggered by a single UTI.
- > If recurrent UTIs develop post cessation of prophylaxis (2 or more UTIs in 6 months or 3 or more UTIs in 12 months), appropriate investigations have already been done and shown no abnormality and there are no other concerning symptoms then a further course of prophylaxis may be considered. The ongoing need for antibiotic prophylaxis should be reviewed again after 3 months.
- > Chronic pulmonary reactions and chronic active hepatitis, occasionally leading to hepatic necrosis, can occur rarely in patients treated with nitrofurantoin. They are generally associated with long-term therapy (usually after six months). If an ongoing need for antibiotic prophylaxis is required post 6-month exposure to nitrofurantoin, an alternative antibiotic is advised where possible. Seek advice from Microbiologist or ID if necessary.