

## OCCG Nitrofurantoin Patient Group Direction (PGD)

The service has been offered to all pharmacies in Oxfordshire and is available in participating branches.

### PGD Information

<b>Clinical condition</b>	Treatment of otherwise healthy, non-pregnant women presenting with symptoms of uncomplicated UTI.
<b>Inclusion criteria</b>	<ul style="list-style-type: none"> <li>• Non-pregnant women aged 16 – 64 years old requiring treatment for an uncomplicated UTI</li> <li>• Presenting with 2 or more of the following symptoms:             <ol style="list-style-type: none"> <li>1. Dysuria (Burning pain when passing urine)</li> <li>2. New nocturia (Needing to pass urine in the night more than usual)</li> <li>3. Cloudy urine (visible cloudy colour when passing urine)</li> </ol> </li> <li>• Women consenting to treatment under this PGD</li> <li>• Patient must present to the pharmacy (exception during COVID-19, see below)</li> <li>• <b>Telephone consultation during COVID-19 pandemic:</b> If a patient cannot be present at the pharmacy, telephone consultation may be appropriate subject to the pharmacist's professional judgement. If nitrofurantoin is prescribed as a result of a telephone consultation, the medication must be collected by the patient or their representative within 24 hours.</li> </ul> <p>Please note if the patient thinks their symptoms are mild, she should be advised that immediate antibiotics may not be necessary, as per PHE guidance. Instead, give self-care advice including patient information leaflet e.g. the RCGP Target Antibiotic Toolkit leaflet: Treating Your Infection – <a href="#">Urinary Tract Infection Leaflet</a>. It is important to advise the patient to return to the pharmacy or see GP for treatment if their symptoms get worse or do not improve after 24 hours of self-care.</p> <p><b>Telephone Consultation during COVID-19 pandemic:</b> Please note in a telephone consultation, the pharmacist must carry out pre-assessment at the start to determine suitability for telephone consultation. If suitable, the patient should give verbal consent to having the full consultation done via telephone. The pharmacist must ensure all necessary information, including follow-up advice, is given to the patient the same way as if they have attended a face-to-face consultation.</p>
<b>Exclusion criteria</b>	<ul style="list-style-type: none"> <li>• Female aged under 16 years of age or 65 years of age and over</li> <li>• Males</li> <li>• Pregnant female, or possible pregnancy</li> <li>• Breast feeding mothers</li> <li>• Women who refuse treatment or do not consent to treatment.</li> <li>• Known hypersensitivity to nitrofurantoin or to any ingredient of the product</li> <li>• Women <b>presenting with symptoms of pyelonephritis</b> i.e. Fever &gt;38°C, nausea/ vomiting, rigors, loin or severe abdominal pains/ tenderness and headache</li> <li>• Women with abnormal vaginal discharge (80% will not have a bacterial UTI)</li> <li>• Haematuria (unless menstruating)</li> <li>• Women who have been treated for UTI with antibiotics in the last 2 weeks, or on 2 occasions in the last 6 months or 3 during the previous 12 months (recurrent UTI)</li> <li>• Women currently taking a prescribed course of antibiotics/Current prophylactic use of antibiotics to prevent UTI.</li> <li>• Previous failed antibiotic treatment for the same infection episode</li> <li>• Known renal dysfunction with an eGFR of less than 45 ml/minute</li> <li>• Severe hepatic insufficiency, including acute porphyria</li> </ul>

	<ul style="list-style-type: none"> <li>• Blood dyscrasias especially G6PD deficiency</li> <li>• Pulmonary diseases such as COPD/ emphysema/ Chronic bronchitis</li> <li>• Vitamin B (particularly folate) deficiency</li> <li>• Anaemia</li> <li>• Diabetes mellitus</li> <li>• Electrolyte imbalance</li> <li>• allergic diathesis</li> <li>• Neurological disorders including peripheral neuropathy</li> <li>• History of kidney stones or renal colic</li> <li>• Women with an indwelling catheter</li> <li>• Women with urological abnormalities or who have had surgery involving the lower urinary tract</li> <li>• Immunocompromised patients or patients taking immunosuppressants or DMARDs</li> <li>• Treatment for HIV</li> <li>• Concomitant use of medication that has a clinically significant interaction with nitrofurantoin (refer to most recent BNF or SPC)<sup>3,4</sup>: <ul style="list-style-type: none"> <li>- Probenecid, sulfapyrazone, carbonic anhydrase inhibitors e.g. acetazolamide, oral typhoid vaccine (avoid nitrofurantoin for three days before and after)</li> </ul> </li> </ul> <p><b><u>Telephone consultation during COVID-19 pandemic:</u></b></p> <ul style="list-style-type: none"> <li>• Telephone consultation is not appropriate for patients who are deaf or hard-of-hearing.</li> <li>• Telephone consultation is not allowed via a patient proxy (i.e. third party)</li> </ul>
<p><b>Cautions (including any relevant action to be taken)</b></p>	<ul style="list-style-type: none"> <li>• The pharmacist and pharmacy team must be vigilant to any safeguarding concerns and take appropriate steps to act upon those concerns as per local safeguarding guidance.</li> <li>• If kidney or renal problems are suspected but patient is uncertain, check patient’s medical record via Summary Care Record if patient consents.</li> <li>• Magnesium Trisilicate or calcium salt antacids (reduced absorption of nitrofurantoin)</li> <li>• OTC cystitis treatment (reduced effectiveness of nitrofurantoin)</li> <li>• Medicines that may delay gastric emptying (increased absorption of nitrofurantoin): <ul style="list-style-type: none"> <li>- Opioids e.g. oxycodone, codeine, morphine etc</li> <li>- Anticholinergic e.g. oxybutynin, tolterodine, solifenacin etc</li> <li>- Antidepressant e.g. amitriptyline, venlafaxine etc</li> </ul> </li> <li>• Patients with gastroparesis (delayed gastric emptying)</li> <li>• Nitrofurantoin may interfere with some tests for glucose in the urine</li> </ul> <p>Patients need not be excluded from treatment via PGD but caution is needed if patients are using/ have taken the above treatments. Patients should be advised not to take alkalinizing agents e.g. potassium citrate whilst taking nitrofurantoin.</p> <p><b><u>Telephone consultation during COVID-19 pandemic:</u></b></p> <p>Patients who have not collected their nitrofurantoin supply within 24 hours following telephone consultation must not be automatically allowed to pick up their supply without a further reassessment by a pharmacist. Reassessment must involve the full clinical consultation as per this PGD. Refer to GP if the patient’s symptoms have deteriorated.</p>
<p><b>Arrangements for referral for medical advice</b></p>	<ul style="list-style-type: none"> <li>• Contact details of services available to be provided to patient, with hours of opening.</li> <li>• Pharmacist to advise patient to see GP if necessary. Depending on symptom severity, pharmacist may contact patient’s surgery for a direct referral where possible. See below for further actions.</li> </ul>

<p><b>Action to be taken if patient excluded</b></p>	<ul style="list-style-type: none"> <li>• If pyelonephritis is suspected, urgent referral to seek medical advice is required.</li> <li>• If sepsis is suspected, seek urgent medical attention from emergency services.</li> <li>• Refer patient to GP, GU clinic or out of hours centre as appropriate.</li> <li>• For patients already taking a prescribed antibiotic or who has recently completed a course of antibiotics for a UTI – refer back to own GP.</li> <li>• Immunocompromised patients or patients taking immunosuppressants or DMARDs - seek urgent medical attentions for full blood count and liver function tests</li> </ul> <p><b><u>Telephone consultation during COVID-19 pandemic:</u></b></p> <ul style="list-style-type: none"> <li>• Refer patient to GP if telephone consultation is not appropriate (e.g. due to hearing difficulties) and face-to-face consultation at the pharmacy is not possible.</li> <li>• If a patient or their representative missed the 24 hour window to collect the nitrofurantoin supply following a telephone consultation, this should be noted on the patient’s medical record in the pharmacy and on PharmOutcome, and the medication should be returned to stock.</li> <li>• If the patient or patient representative subsequently presents after the 24 hours period, the patient should have a further full consultation with the pharmacist to reassess suitability before a supply can be made.</li> <li>• Refer to GP if patient is no longer eligible following a reassessment.</li> </ul>
<p><b>Action to be taken if patient declines treatment</b></p>	<p>Record refusal in patient records and state reason for refusal, any action taken or advice given.</p>

## Details of the medicine/ Description of treatment<sup>2</sup>

<b>Name, form and strength of medicine</b> <i>Include ▼ for <a href="#">black triangle medicines</a></i>	First line: Nitrofurantoin 100mg modified-release capsules; or Second line: Nitrofurantoin 50mg tablets
<b>Legal category</b>	Prescription Only Medicine (POM)
<b>Indicate any off-label use (if relevant)</b>	N/A
<b>Dose and frequency</b>	First line: ONE 100mg modified-release capsule every twelve hour for three days with food or milk; or Second line: ONE 50mg tablets four times a day for three days with food or milk
<b>Route/method of administration</b>	Oral
<b>Total Quantity to be supplied</b>	First line: Six 100mg modified-release capsules; or Second line: Twelve 50mg tablets
<b>Maximum treatment period</b>	Three days

**Participating pharmacies** (please note this list may be updated from time to time) - **Please contact the pharmacy before referring your patient as the service can only be provided by a trained pharmacist.**

Avicenna Pharmacy	61 Stert Street, Abingdon, OX14 3JF	01235 520059
Avicenna Pharmacy	172 Kennington Road, Kennington, OX1 5PG	01865 736593
Averose Pharmacy	19 Market Street, Charlbury, OX7 3PL	01608 810315
Berinsfield Pharmacy	Berinsfield Health Centre, Berinsfield, Wallingford OX10 7NE	01865 341114
Barton Pharmacy	6 Underhill Circus, Oxford OX3 9LU	01865 763106
Cleggs Pharmacy	3, Kings Walk, Limbrough Close, Wantage OX12 9AJ	01235 763046
Chipping Norton Pharmacy	Chipping Norton OX7 5FA	01608 648002
Peak Pharmacy	South Bar House, South Bar Street, Banbury OX16 9AD	01295 262039
Day Lewis	19B Wood Lane, Sonning Common, Reading RG4 9SJ	0118 9722306
Farringdon Pharmacy	3B London Street, Farringdon SN7 7AE	01367 244632
Frosts pharmacy	Hardwick Shopping Centre, Ferriston, Banbury, OX16 1XE	01295 272432
Hanborough Pharmacy	56 Churchill Way, Long Hanborough, Witney, OX29 8JL	01993 880351
Headington Pharmacy	207 London Road, Headington, Oxon, OX3 9JA	01865 765559
Henley Pharmacy	25 Bell Street, Henley-on-Thames, RG9 2BA	01491 574142
Jardines	2 Nightingale Place, Bicester OX26 6XX	01869 323008
Jhoots Pharmacy	116 Walton St, Oxford OX2 6AJ	01865 557219
Jhoots Pharmacy	19 Bury St, Abingdon OX14 3QT	01235 521456
Lloyds	23 High Street, Benson, Wallingford OX10 6RP	01491 838686
Lloyds	Blackbird Leys Health Centre, Dunnock Way, Greater Leys OX4 7EX	01865 770713
Lloyds	9 West Way, Botley, Oxford. OX2 9TJ	01865 247023
Lloyds	7 Burford Road, Carterton OX18 3AG	01993 842572
Lloyds	28 Church Road, Chinnor OX39 4PG	01844 351340
Lloyds	New Health Centre, Mably Way Grove, Wantage OX12 9BN	01235 763028
Lloyds	Sainsburys, Witan Way, Witney OX28 4FF	01993 778691
Lloyds	Windrush Health Centre, Welch Way, Oxford OX28 6JS	01993 705644
Lloyds	7 Peachcroft Centre, Abingdon OX14 2QA	01235 530599
Lloyds	Sainsbury's, Manorsfield Road, Bicester OX26 6FA	01869 246500
Lloyds	The Old Barn, Coker Close, Bicester OX26 6DR	01869 240972
Lloyds	Woodlands Road, Didcot OX11 0BB	01235 812242
Lloyds	64 Acre End St, Eynsham, Oxford OX29 4PD	01865 881283
Lloyds	High Street, Goring On Thames, Reading RG8 9AT	01491 872124
Lloyds	Sainsbury's, Eastern By-Pass Rd, Oxford OX4 4XR	01865 747872
Lloyds	Sainsbury's, 289 Oxford Road, Kidlington OX5 2PE	01865 371554
Lloyds	Sainsbury's, Central Drive, Didcot, OX11 7ND	01235 815860
Medipill	Hudson Street , Deddington, Oxfordshire, OX15 0SW	01869 337583
North Abingdon Pharmacy	45 Loyd Close, Abingdon, OX14 1XR	01235 538830
Parade Pharmacy	18 The Parade, Oxford Road, Kidlington OX5 1DB	01865 373333
Peak pharmacy	58 Orchard Way, Banbury, OX16 0EN	01295 262656
Rowlands Pharmacy	17 Ivy Close, Cowley, Oxford, OX4 2NB	01865 777 089
Rowlands Pharmacy	13 Atkyns Road, Wood Farm, Oxford, OX3 8RA	01865 766978
Rowlands Pharmacy	57 Osler Road, Headington, Oxford, OX3 9BH	01865 762979
Rowlands Pharmacy	1 The Pound, Cholsey, Oxford, OX10 9NS	01491 652 392
Rowlands Pharmacy	1 Henley Ave, Oxford, OX4 4DH	01865 711 722
Rowlands Pharmacy	227 Banbury Road, Summertown, Oxford, OX2 7HQ	01865 558348
Rowlands Pharmacy	East Oxford Health Centre, 2 Manzil Way, Oxford, OX4 1GE	01865 248963
Reynolds Way Pharmacy	7 Reynolds Way, Abingdon OX14 5JT	01235 535397
Superdrug Pharmacy	39 Sheep Street, Bicester, Oxon OX26 6JJ	01869 248822
The Leys (Blackbird Leys)	Dunnock Way, Oxford OX4 7EX	01865 401430/401435
The Leys (Rosehill)	6A Courtland Road, Oxford OX4 4JA	01865 777836
Watlington Pharmacy	54 Couching Street, Watlington OX49 5PU	01491 612248