

### **OCCG Nitrofurantoin Patient Group Direction (PGD)**

The service has been offered to all pharmacies in Oxfordshire and is available from 1<sup>st</sup> October 2019 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</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>
<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<sup>o</sup>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> <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> </ul>

	<ul style="list-style-type: none"> <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>
<b>Cautions (including any relevant action to be taken)</b>	<ul style="list-style-type: none"> <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>

#### Details of the medicine/ Description of treatment

<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.**  
 For more information please contact [occg.medicines@nhs.net](mailto:occg.medicines@nhs.net).

Avicenna Pharmacy	61 Stert Street, Abingdon, OX14 3JF
Avicenna Pharmacy	172 Kennington Road, Kennington, OX1 5PG
Barton Pharmacy	6 Underhill Circus, Oxford OX3 9LU
Berinsfield Pharmacy	Fane Drive, Berinsfield, Wallingford OX10 7NE
Cleggs Pharmacy	3, Kings Walk, Limborough Close, Wantage OX12 9AJ
Chipping Norton Pharmacy	Chipping Norton OX7 5FA
Cox and Robinson	South Bar House, S Bar Street, Banbury OX16 9AD
Cross Pharmacy	10 Horse Fair, Banbury OX16 0AH
Day Lewis	19B Wood Lane, Sonning Common, Reading RG4 9SJ
Delmergate Pharmacy	Hudson Street , Deddington, Oxfordshire, OX15 0SW
Farringdon Pharmacy	3B London Street, Faringdon SN7 7AE
Hanborough Pharmacy	56 Churchill Way, Long Hanborough, Witney OX29 8JL
Henley Pharmacy	25 Bell Street, Henley-on-Thames, RG9 2BA
Jardines	2 Nightingale Place, Bicester OX26 6XX
Lloyds	23 High Street, Benson, Wallingford OX10 6RP
Lloyds	Blackbird Leys Health Centre, Dunnock Way, Greater Leys OX4 7EX
Lloyds	The Portacabin, Adjacent To Elms Parade, Westway Shopping Centre, OX2 9LP
Lloyds	7 Burford Road, Carterton OX18 3AG
Lloyds	28 Church Road, Chinnor OX39 4PG
Lloyds	Cogges Surgery, Cogges Hill Road, Witney OX28 3FP
Lloyds	25 Oxford Road, Kidlington, OX5 2BP
Lloyds	20-21 Market Place, Wallingford OX10 0AD
Lloyds	New Health Centre, Mably Way Grove, Wantage OX12 9BN
Lloyds	Sainsburys, Witan Way, Witney OX28 4FF
Lloyds	Windrush Health Centre, Welch Way, Oxford OX28 6JS
Lloyds	Peachcroft Centre, 7 Peachcroft Road, Abingdon OX14 2QA
Lloyds	Sainsbury's, Manorsfield Road, Bicester OX26 6FA
Lloyds	The Old Barn, Coker Close, Bicester OX26 6DR
Lloyds	Woodlands Road, Didcot OX11 0BB
Lloyds	Didcot Health Centre, Britwell Rd, Didcot OX11 7JH
Lloyds	64 Acre End St, Eynsham, Oxford OX29 4PD
Lloyds	High Street, Goring On Thames, Reading RG8 9AT
Lloyds	Sainsbury's, Eastern By-Pass Rd, Oxford OX4 4XR
Lloyds	Sainsbury's, 289 Oxford Road, Kidlington OX5 2PE
North Abingdon Pharmacy	45 Loyd Close, Abingdon, OX14 1XR
Parade Pharmacy	18 The Parade, Oxford Road, Kidlington OX5 1DB
Reynolds Way Pharmacy	7 Reynolds Way, Abingdon OX14 5JT
Superdrug Pharmacy	39 Sheep Street, Bicester, Oxon OX26 6JJ
The Leys (Blackbird Leys)	Dunnock Way, Oxford OX4 7EX
The Leys (Rosehill)	6A Courtland Road, Oxford OX4 4JA
Watlington Pharmacy	54 Couching Street, Watlington OX49 5PU
Woodstock Pharmacy	24 High Street, OX20 1TF