NHS
Bath and North East Somerset, Swindon and Wiltshire
Clinical Commissioning Group

PATIENT GROUP DIRECTION (PGD)

Supply/Administration of flucloxacillin
For the treatment of extensive and/or severe impetigo

Documentation details

Reference no:	CommPharm Flucloxacillin Impetigo PGD
Version no:	V1.0
Valid from:	December 2021
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Expiry date:	December 2023

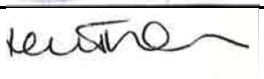
Change history

Version number	Change details	Date
1.0	Written by Michelle Jones and checked by Helen Wilkinson & Elizabeth Jonas	November 2021
1.1	Written by BNSSG CCG, adapted for BSW CCG and checked by Marco Yeung and Paul Clarke	December 2021

Glossary

Abbreviation	Definition

1. PGD template development

Developed by:	Name	Signature	Date
Pharmacist	Michelle Jones, Senior Medicines Optimisation Pharmacist, BNSSG CCG		10.02.2020
Doctor	Dr Shaba Nabi, GP Prescribing lead, BNSSG CCG		13.02.2020
Registered Professional representing users of the PGD	Helen Wilkinson, Principal Medicines Optimisation Pharmacist, BNSSG CCG		12.02.2020

PGD Working Group Membership

Name	Designation
Helen Wilkinson	Principal Medicines Optimisation Pharmacist, BNSSG CCG
Elizabeth Jonas	Senior Medicines Optimisation Pharmacist, BNSSG CCG
Michelle Jones	Senior Medicines Optimisation Pharmacist , BNSSG CCG
Judith Poulton	Pharmacist, Avon Local Pharmaceutical Committee
Dr Shaba Nabi	GP Prescribing Lead, BNSSG CCG
Richard Brown	Pharmacist, Avon Local Pharmaceutical Committee

2. Organisational authorisations *(may require amendment depending on how the service using the PGD is being commissioned/the organisation who is responsible for authorising the PGD – not all fields may be applicable)*

The PGD is not legally valid until it has had the relevant organisational authorisation.

It is the responsibility of the organisation that has legal authority to authorise the PGD, to ensure that all legal and governance requirements are met. The authorising body accepts governance responsibility for the appropriate use of the PGD.

Bath and North East Somerset, Swindon and Wiltshire CCG authorises this PGD for use by the services or providers listed below:

Authorised for use by the following organisation and/or services
Community pharmacies contracted to provide the BSW CCG Community Pharmacy PGD Service for Minor Ailments
Limitations to authorisation
None

Senior Doctor			
Role	**Name**	**Sign**	**Date**
Medical Director BSW CCG			

Senior Pharmacist			
Role	**Name**	**Sign**	**Date**
Associate Director (Medicines Optimisation), BSW CCG	Paul Clarke		**02.12.21**

Organisational approval (legal requirement)			
Role	**Name**	**Sign**	**Date**
Director (Medicines Optimisation), BSW CCG	Nadine Fox		**02.12.21**

Local enquiries regarding the use of this PGD may be directed to bswccg.prescribing@nhs.net

Section 7 provides a registered health professional authorisation sheet. Individual professionals must be authorised by name to work to this PGD. Alternative authorisation sheets/templates may be used where appropriate in accordance with local policy.

3. Characteristics of staff

Qualifications and professional registration	• Pharmacists registered with the General Pharmaceutical Council (GPhC)
Initial training	• must be authorised by name as an approved practitioner under the current terms of this Patient Group Direction before working to it • Has undertaken appropriate training and declared themselves assessed competent to carry out clinical assessment of patient leading to diagnosis that requires treatment according to the indications listed in this PGD • must have undertaken appropriate training for working under PGDs for supply/administration of medicines • must be competent in the use of PGDs (see NICE Competency framework for health professionals using patient group directions) • must have access to the Patient Group Direction and associated online resource • should fulfil any additional requirements defined by local policy ***The registered healthcare professional authorised to operate under this PGD must have undertaken appropriate training and successfully completed the declaration of competence to undertake clinical assessment of patient leading to diagnosis of the conditions listed.***
Competency assessment	*Complete the self-declaration for this PGD on PharmOutcomes* *Staff operating under this PGD are encouraged to review their competency using the NICE Competency Framework for health professionals using patient group directions* ***Individuals operating under this PGD are personally responsible for ensuring they remain up to date with the use of all medicines included in the PGD - if any training needs are identified these should be discussed with the senior individual responsible for authorising individuals to act under the PGD and further training provided as required.***
Ongoing training and competency	Practitioners must ensure they are up to date with relevant issues and clinical skills relating to this PGD and should be aware of any change to the recommendations for the medicines listed. It is the responsibility of the individual to keep up-to-date with Continued Professional Development (CPD).
The decision to supply any medication rests with the individual registered health professional who must abide by the PGD and any associated organisation policies.	

4. Clinical condition or situation to which this PGD applies

Clinical condition or situation to which this PGD applies	**Widespread impetigo in children aged 2 years and over and adults** • First-line oral antibiotic treatment for widespread impetigo
Criteria for inclusion	• Adults and children over 2 year of age with widespread impetigo • Valid informed consent Children under 16 should demonstrate competence under Lord Fraser rules, or consent for treatment must be given by an adult with parental responsibility
Criteria for exclusion	• No valid informed consent • Under 2 years old • **Red flags** - Signs of Sepsis – refer immediately - Has significant lymphoedema (gross swelling of the limb) - Cellulitis - Staphylococcal scalded skin syndrome. - Lymphangitis. - Osteomyelitis and septic arthritis. - Scarlet fever, urticaria and erythema multiforme (following streptococcal infection) - Patients who are immuno-compromised - Acute glomerulonephritis (following streptococcal impetigo). • Hypersensitivity to beta-lactam antibiotics (e.g. penicillin/ cephalosporins) or any ingredient contained within the medication. • Bullous impetigo – refer for differential diagnosis • Pregnancy • Breast-feeding • Renal or hepatic impairment • Patients taking warfarin –Prolongation of prothrombin time has been reported in patients taking penicillins with warfarin concurrently and so it is recommended to monitor INR closely whilst on treatment. • Previous course of antibiotics for the same episode • Not to be used for localised lesions (see Fucidin® PGD, * note • Patients with a previous history of penicillin-associated jaundice or hepatic dysfunction • Known colonisation with MRSA • History of jaundice/hepatic dysfunction associated with flucloxacillin • Patients taking methotrexate (as flucloxacillin reduces the excretion of methotrexate which can cause methotrexate toxicity **For oral solution only** • Patients with rare hereditary problems of fructose intolerance, glucose galactose malabsorption or sucrose-isomaltase insufficiency
Cautions including any relevant action to be taken	• Each 5ml dose of the oral solution contains 3.09g of sucrose and 18.05mg sodium. This should be taken into consideration by patients on a controlled sodium or sugar diet.

Action to be taken if the patient is excluded	• Record reasons for exclusion and any action(s) taken in patient notes • Document advice given and the decision reached • Advise patient on alternative treatment. • Refer to a GP if appropriate
Action to be taken if the patient or carer declines treatment	• Record reasons for decline and any action(s) taken in patient notes • Advise patient on alternative treatment. • Document advice given and the decision reached • Refer to a GP if appropriate
Arrangements for referral for medical advice	• Clinical information should be sent to the patient's GP in accordance with local protocols

5. Description of treatment

Name, strength & formulation of drug	Flucloxacillin 125mg/5ml oral solution Flucloxacillin 250mg capsules Flucloxacillin 500mg capsules
Legal category	Prescription-only medicine (POM)
Route / method of administration	ORAL
Dose and frequency of administration	**Children 2 to 9years** 250mg (10ml of the 125mg/5ml oral solution) every 6 hours (FOUR times a day) **Children 10 to 17 years** 500mg (1 x 500mg capsule or 2x 250mg capsule or 20ml of the 125mg/5ml oral solution, only if the patient is unable to swallow) every 6 hours (FOUR times a day) **Adults** 500mg (1x 500mg capsules or 2 x 250mg capsules) every 6 hours (FOUR times a day)
Duration of treatment	FIVE days
Quantity to be supplied	Supply the necessary quantity of capsules, or the minimum number of full packs of oral solution sufficient to complete the course. Note the expiry of oral solution once reconstituted. The oral solution must be prepared by tapping the bottle to loosen the powder then adding the required volume of tap water (as stated on the pack). Agitate rapidly for a few seconds to ensure all powder is wetted and uniformly suspended. Once reconstituted store in a fridge. Multiples of 100ml flucloxacillin 125mg/5ml oral solution Multiples of 28 x flucloxacillin 500mg capsules or 250mg capsules Containers should be marked with the length of course, and expiry date of reconstituted oral solution where appropriate. Ensure appropriately labelled with the patient's name, date and Pharmacy contact details.

Storage	Stock must be stored in conditions in line with SPC, which is available from the electronic Medicines Compendium website: www.medicines.org.uk Do not store above 25°C.
Drug interactions	• Caution is advised when flucloxacillin is administered concomitantly with paracetamol due to the increased risk of high anion gap metabolic acidosis (HAGMA). Patients at high risk for HAGMA are in particular those with severe renal impairment, sepsis or malnutrition especially if the maximum daily doses of paracetamol are used. • Consider potential drug interactions – refer to current edition of the BNF or Summary of Product Characteristics for a full list of interactions. Discuss with prescriber of unsure. These include: ○ Probenecid and sulfinpyrazone – excretion of penicillins reduced ○ Other drugs, such as piperacillin, which are excreted via renal tubular secretion, may interfere with flucloxacillin elimination. ○ Flucloxacillin may reduce the response to sugammadex ○ Anticoagulants –Prolongation of prothrombin time has been reported in patients taking penicillins with warfarin concurrently and so it is recommended to monitor INR closely whilst on treatment. Advise patient to inform warfarin clinic. ○ Oral typhoid vaccine may be inactivated by flucloxacillin. ***A detailed list of drug interactions is available in the SPC, which is available from the electronic Medicines Compendium website: www.medicines.org.uk***
Identification & management of adverse reactions	Side effects are usually mild and transient • Common ○ Minor gastrointestinal disturbances • Uncommon ○ Rash, urticarial, purpura • Very rare ○ Neutropenia, thrombocytopenia, haemolytic anaemia, eosinophilia, Anaphylactic shock (exceptional with oral administration), angioneurotic oedema, pseudomembranous colitis, hepatitis and cholestatic jaundice, erythema multiforme, Stevens-Johnson syndrome and toxic epidermal necrolysis, arthralgia and myalgia sometimes develop more than 48 hours after the start of the treatment, interstitial nephritis, fever sometimes develops more than 48 hours after the start of the treatment. • Unknown ○ Acute generalized exanthematous pustulosis **Important Safety Information** Cholestatis jaundice and hepatitis may occur very rarely, up to two months after treatment with flucloxacillin has stopped. Administration for more than two weeks and increasing age are risk factors. Healthcare professionals are reminded that: • Flucloxacillin should not be used in patients with a history of hepatic dysfunction associated with flucloxacillin

	• Flucloxacillin should be used with caution in patients with hepatic impairment. • Careful enquiry should be made about hypersensitivity reactions to beta-lactam antibacterials. Use the Yellow Card System to report unexpected adverse drug reactions directly to the CSM. Guidance on the use of the Yellow Card System and Yellow Cards are available in the current BNF or via www.yellowcard.gov.uk **A detailed list of adverse reactions is available in the SPC, which is available from the electronic Medicines Compendium website: www.medicines.org.uk**
Management of and reporting procedure for adverse reactions	• Healthcare professionals and patients/carers are encouraged to report suspected adverse reactions to the Medicines and Healthcare products Regulatory Agency (MHRA) using the Yellow Card reporting scheme on: ***https://yellowcard.mhra.gov.uk*** • Record all adverse drug reactions (ADRs) in the patient's medical record. • Report via organisation incident policy. • If anaphylaxis management may be required include this information here (e.g. adrenaline to be held/resuscitation team details)
Written information to be given to patient or carer	• Give marketing authorisation holder's patient information leaflet (PIL) provided with the product. • Provide PIL on impetigo, which can be downloaded from the British of Dermatologists website http://www.bad.org.uk/shared/get-file.ashx?id=211&itemtype=document • Information on impetigo can be downloaded from the NHS choices website http://www.nhs.uk/conditions for patients
Patient advice / follow up treatment	• Explain that impetigo is not usually serious but can spread if not treated. • Reassure the patient that impetigo usually heals completely without scarring and that serious complications are rare • Take the antibiotics at regular intervals and complete the course supplied, even if feeling better • This medicine should ideally be taken on an empty stomach (i.e. half to one hour before you eat) where possible. • Store oral solution in refrigerator-shake well before use • Discuss side effects and advise to come back if side effects occur • Give safety netting advice - see GP if lesions are not improving 5 days after initiation of flucloxacillin or are becoming more widespread and consider red flags. • Advice on management of impetigo including hygiene measures to aid healing, including recommending that the person washes the affected area with soapy water. Advise patient to try not to touch patches of impetigo and if they do to wash hands afterwards. • Avoid scratching affected areas and keep fingernails clean and cut short. • Don't share towels, clothing, bathwater or flannels etc. until the infection has cleared.

	• Children and adults should be advised to stay away from school and other childcare facilities or work until the lesions are healed dry and crusted over or 48 hours after flucloxacillin treatment has started. Food handlers are required by law to inform employers immediately if they have impetigo • Advise on symptom relief including appropriate 'over the counter' analgesia (see drug interactions regarding paracetamol). • Advise the patient or their carer to return any tablets or oral solution remaining at completion of course to their community pharmacist for disposal
Records	Record: • that valid informed consent was given • name/signature of individual, address, date of birth and GP with whom the individual is registered (if relevant) • History, examination, investigations, diagnosis • Drug history including any allergies • name of registered health professional • name and brand of medication supplied/administered • date and time of supply/administration • dose, form and route of supply/administration • quantity supplied/administered • batch number and expiry date (if applicable) • advice given, including advice given if excluded or declines treatment • details of any adverse drug reactions and actions taken • supplied via Patient Group Direction (PGD) • Referral arrangements (including self-care) • Add patient name and date of supply to the pack before issuing. Liquid dose forms must include the expiry date of reconstituted oral solution. ***Records should be signed and dated (or a password controlled e-records).*** ***All records should be clear, legible and contemporaneous.*** ***A record of all individuals receiving treatment under this PGD should also be kept for audit purposes in accordance with local policy.***

6. Key references

Key references	• Summary of Product Characteristics for flucloxacillin (available at www.emc.medicines.org.uk • British National Formulary (available online at www.medicinescomplete.com) [accessed 23/11/2021]) • British National Formulary for Children (available online at www.medicinescomplete.com) • BSW Antimicrobial Prescribing Guidelines available https://prescribing.bswccg.nhs.uk/wpdm-package/wiltshire-swindon-banes-primary-care-antibiotic-guidance-jan-2019-nice-update • NICE Clinical Knowledge Summaries (available at https://cks.nice.org.uk/impetigo) • NICE NG 153 Impetigo: antimicrobial prescribing (available online at https://www.nice.org.uk/guidance/ng153/resources/visual-summary-pdf-7084853533)

7. Registered health professional authorisation sheet

CommPharm Flucloxacillin Impetigo Vs 1 Valid from: December 2021 Expiry: December 2023

Before signing this PGD, check that the document has had the necessary authorisations in section 2. Without these, this PGD is not lawfully valid.

Registered health professional

By signing this patient group direction you are indicating that you agree to its contents and that you will work within it.

Patient group directions do not remove inherent professional obligations or accountability.

It is the responsibility of each professional to practise only within the bounds of their own competence and professional code of conduct.

I confirm that I have read and understood the content of this Patient Group Direction and that I am willing and competent to work to it within my professional code of conduct.			
Name	**Designation**	**Signature**	**Date**

Authorising manager (if applicable)

I confirm that the registered health professionals named above have declared themselves suitably trained and competent to work under this PGD. I give authorisation on behalf of INSERT NAME OF ORGANISATION for the above named health care professionals who have signed the PGD to work under it.			
Name	**Designation**	**Signature**	**Date**

Note to authorising manager

Score through unused rows in the list of registered health professionals to prevent additions post managerial authorisation.

This authorisation sheet should be retained to serve as a record of those registered health professionals authorised to work under this PGD.