

Protocol for the supply of topical hydrogen peroxide 1% cream (e.g. Crystacide[®] 1% cream) for the treatment of localised non-bullous impetigo under the NHS England commissioned Pharmacy First service

Version Number 1.0

Change History		
Version and Date	Change details	
Version 1 January 2024	New template	



ORGANISATIONAL AUTHORISATIONS

Name	Job title and organisation	Signature	Date
Senior doctor Professor Sir Stephen Powis	National Medical Director, NHS England	Agt Bri	11.12.23
Senior pharmacist David Webb	Chief Pharmaceutical Officer, NHS England	AMA	08.12.23
Specialist in microbiology Professor Mark Wilcox	National Clinical Director for AMR & IPC, NHS England	Norte his .	11.12.23
Person signing on behalf of <u>authorising</u> <u>body</u> David Webb	Chief Pharmaceutical Officer, NHS England	(ANA)	08.12.23



Protocol DEVELOPMENT GROUP

This protocol has been developed by the national skin antimicrobial PGD Short Life Working Group in accordance with their Terms of Reference. It has been reviewed by The Advisory Committee on Antimicrobial Prescribing, Resistance and Healthcare Associated Infection (APRHAI) to the Department of Health and Social Care (England) in November 2023.

Name	Designation		
Dr Diane Ashiru-	Lead Pharmacist, HCAI, Fungal, AMR, AMU & Sepsis Division, UK		
Oredope	Health Security Agency		
Dr Imran Jawaid	GP and RCGP AMR representative		
Dr Jeeves Wijesuriya	GP and Clinical Advisor to NHS England Primary Care Team and Vaccination and Screening Team		
Dr Naomi Fleming	NHS England Regional Antimicrobial Stewardship lead for the East of England region		
Jackie Lamberty	Medicines Governance Consultant Lead Pharmacist, UK Health Security Agency		
Jo Jenkins	Lead Pharmacist Patient Group Directions and Medicines Mechanisms, Medicines Use and Safety Division, Specialist Pharmacy Service		
Liz Cross	Advanced Nurse Practitioner QN		
Dr Martin Williams	Consultant in Microbiology and Infectious Diseases		
Dr Matthew Scorer Consultant Dermatologist			
Dr Michelle Toleman Consultant Microbiologist			
Temitope Odetunde Head of Medicines Management			
Kieran Reynolds (SLWG co-ordinator)	Specialist Pharmacist – Medicines Governance, Medicines Use and Safety Division, Specialist Pharmacy Service		
Nigel Gooding	Consultant Paediatric Pharmacist. Neonatal and Paediatric Pharmacist Group (NPPG) representative.		
Dr Stephanie Gallard GP (Dermatology Special Interest)			
Rob Hebdon	National Pharmacy Integration Lead Primary Care, Community Services and Strategy Directorate, NHS England		



Characteristics of staff				
Qualifications and	Registered healthcare professional listed in the legislation as able			
professional	to practice under Patient Group Directions.			
registration				
Training and	Initial training:			
competency requirements	 The registered healthcare professional authorised to operate under this protocol must have undertaken appropriate education and training and be competent to undertake clinical assessment of patients ensuring safe provision of the medicines listed in accordance with the specification. To deliver this service, the registered healthcare professional should have evidence of competence in the clinical skills and knowledge covered in the Centre for Pharmacy Postgraduate Education (CPPE) Pharmacy First Service self-assessment framework. Before commencement of the service, the pharmacy contractor must ensure that pharmacists and pharmacy staff providing the service are competent to do so and be familiar with the clinical pathways, clinical protocol and PGDs. This may involve 			
	 completion of training. Competency assessment: Individuals operating under this protocol must be assessed as competent or complete a self-declaration of competence to operate under this protocol (see an example authorisation record sheet in Appendix A). Ongoing training and competency: 			
	Individuals operating under this protocol are personally responsible			
	for ensuring they remain up to date with the use of all medicines and guidance included in the protocol - if any training needs are identified these should be discussed with the senior individual responsible for authorising individuals to act under the protocol and further training provided as required.			
	y any medication rests with the individual registered health			
professional who mus	t abide by the protocol and any associated organisational policies.			



Clinical condition of	or situation to which this protocol applies		
Clinical condition	Localised non-bullous impetigo in children over 1 year and adults		
or situation to	who are systemically well and not at high risk of complications.		
which this			
protocol applies			
Criteria for	Informed consent		
inclusion	Individuals aged 1 year and over		
	 Signs and symptoms of impetigo using the appropriate 		
	diagnostic (NICE CKS) guidance.		
	 Localised (3 or fewer lesions/clusters present) non-bullous 		
	impetigo		
Criteria for	Consent refused and documented in the individual's clinical		
exclusion	notes		
	Individuals under 1 year of age		
	Pregnancy or suspected pregnancy in individuals under 16 years		
	of age		
	Currently breastfeeding with impetigo lesion(s) present on the		
	breast (see <u>Cautions</u> for advice when treating impetigo lesion(s)		
	not on the breast(s) in breastfeeding individuals)		
	Severely immunosuppressed individuals as defined in <u>Chapter</u>		
	<u>28a Green book</u>):		
	Individuals with primary or acquired immunodeficiency states due		
	to conditions including:		
	acute and chronic leukaemias, and clinically aggressive		
	lymphomas (including Hodgkin's lymphoma) who are less t 12 months since achieving cure		
	 individuals under follow up for a chronic lymphoproliferative 		
	disorders including haematological malignancies such as		
	indolent lymphoma, chronic lymphoid leukaemia, myeloma,		
	Waldenstrom's macroglobulinemia and other plasma cell		
	dyscrasias (N.B: this list not exhaustive)		
	 immunosuppression due to HIV/AIDS with a current CD4 count of below 200 cells/µl. 		
	 primary or acquired cellular and combined immune deficiencies 		
	- those with lymphopaenia (<1,000 lymphocytes/ul) or with a		
	functional lymphocyte disorder		
	those who have received an allogeneic (cells from a donor) or		
	an autologous (using their own cells) stem cell transplant in the		
	previous 24 months		
	those who have received a stem cell transplant more than 24		
	months ago but have ongoing immunosuppression or graft versus host disease (GVHD)		
	Individuals on immunosuppressive or immunomodulating therapy		
	including:		
	those who are receiving or have received in the past 6 months		
	immunosuppressive chemotherapy or radiotherapy for any		
	indication		
	 those who are receiving or have received in the previous 6 		
	months immunosuppressive therapy for a solid organ		
	 transplant those who are receiving or have received in the previous 3 		
	months targeted therapy for autoimmune disease, such as JAK		
	inhibitors or biologic immune modulators including B-cell		



	 targeted therapies (including rituximab but for which a 6 month period should be considered immunosuppressive), monoclonal tumor necrosis factor inhibitors, (ITNF), T-cell co-stimulation modulators, soluble TNF receptors, interleukin (IL)-6 receptor inhibitors, IL-17 inhibitors, IL 12/23 inhibitors, IL 23 inhibitors (N.B: this list is not exhaustive) Individuals with chronic immune mediated inflammatory disease who are receiving or have received immunosuppressive therapy prednisolone per day) for more than 10 days in the previous month long term moderate dose corticosteroids (equivalent ≥20mg prednisolone per day for more than 4 weeks) in the previous 3 months any non-biological oral immune modulating drugs e.g. methotrexate >20mg per week (oral and subcutaneous), azathioprine >3.0mg/kg/day; 6-mercaptopurine >1.5mg/kg/day, mycophenolate >1g/day) in the previous 3 months certain combination therapies at individual doses lower than stated above, including those on 27.5mg per week) for any reason in the previous month. Individuals who have received a short course of high dose steroids (equivalent >40mg prednisolone per day for more than a week) for any reason in the previous month. Individuals who have received a short course of high dose steroids (equivalent >40mg prednisolone per day for more than a week) for any reason in the previous month. Individuals who have received a short course of high dose steroids (equivalent >40mg prednisolone per day for more than a week) for any reason in the previous month. Immunosuppressed individuals: individuals who are immunosuppressed or are currently taking immunosuppressants (including systemic corticosteroids for individuals with adrenal insufficiency corticosteroid inhalers or corticosteroid applied topically (e.g. to the skin, ears, eyes, nasal cavity) intra-articular, -bursal or -tendon corticosteroid injections. Hyp
•	
	dermatitis, or current episode of <u>scabies</u> , <u>chickenpox</u> or <u>eczema</u> <u>herpeticum</u>)
•	Any open wounds affecting the application area or the
	immediate vicinity
•	Widespread (4 or more lesions/clusters present) non-bullous



 impetigo Bullous impetigo (characterised by flaccid fluid-filled vesicles and blisters (often with a diameter of 1-2cm) which can persist for 2-3 days. Lesions rupture, leaving a thin, flat, yellow-brown crust). Systemically unwell Signs/symptoms of a more serious condition/illness (e.g., swelling, large blisters, pain, pus or spreading redness) Any individual identified with symptoms of <u>severe/life-threatening infection or systemic sepsis</u>: refer urgently via ambulance Impetigo near the eyes: hydrogen peroxide can be irritant Individuals using topical iodine, permanganates or other strong oxidising agents. 			
Breastfeeding individuals: avoid direct contact between infant			
and impetigo lesion(s). Wash hands after applying hydrogen			
peroxide 1% cream and before touching the infant.			
Hydrogen peroxide cream can be irritant. A mild sensation of			
burning may be experienced for a short time after application			
and this is normal.			
Provide information on impetigo (British Association of Dermatologists)			
Demaiologisis)			
Provide information on impetigo (NHS)			
Record reasons for exclusion in the appropriate clinical record			
Individuals where treatment is not indicated:			
Provide individual/carer/parent/guardian with information on			
impetigo and safety netting advice.			
 Advise individual/carer/parent guardian to seek medical advice if: 			
 Symptoms worsen rapidly or 			
 Symptoms worsen significantly 			
 Refer to a local health protection team (or a consultant in Communicable Disease Control) for further assessment if: Suspect a significant local outbreak (e.g. in a nursing home, crèche, school etc.) 			
 Refer urgently to a prescriber for further assessment if: Bullous impetigo (characterised by flaccid fluid-filled vesicles and blisters (often with a diameter of 1-2cm) which can persist for 2-3 days. Lesions rupture, leaving a thin, flat, yellow-brown crust) Individual is systemically unwell, but not showing signs or symptoms of <u>sepsis</u> Individuals considered to be clinically at high risk of complications (e.g. severely immunosuppressed or immunosuppressed and infection is localised) Recurrent impetigo (defined as 2 or more episodes in the same year) Individuals where treatment under this protocol is not 			



	and require further assessment	
	 Refer urgently to A&E for further assessment if: Individual is severely immunosuppressed or immunosuppressed and infection is widespread Signs/symptoms of a more serious condition/illness (e.g, swelling, large blisters, pain, pus or spreading redness) are present and <u>complications of impetigo</u> (e.g. cellulitis, Staphylococcal scalded skin syndrome, or other deep soft tissue infection) are suspected. 	
Action to be taken if individual/carer/ parent/guardian declines treatment	 If sepsis is suspected refer the individual urgently to A&E Document advice given. Provide safety netting advice and advise individual/carer/parent/guardian on alternative treatment available using information on impetigo. Refer to a prescriber if appropriate. 	
Arrangements for referral for medical advice	Refer to the appropriate medical practitioner in the care pathway	

ment			
Hydrogen peroxide 1% (10mg/1g) cream (e.g. Crystacide [®] 1%			
cream)			
oroany			
P			
Topical (cutaneous application) to the affected area(s) of the skin.			
Children 1 year and over and adults:			
Apply a thin layer to the affected area(s) up to 3 times a day			
Apply a third layer to the anected area(s) up to 5 times a day			
Lie enough of the energy to encountly leader (a) with a third leaves of			
Use enough of the cream to cover the lesion(s) with a thin layer of			
cream.			
A dry film will appear on the skin after each application, this can be			
washed off with water. Hands should be washed after this also.			
5 days			
Treatment should be started immediately and 5 days of			
treatment completed.			
Children 1 year and over and adults:			
Appropriately labelled tube of 25g cream.			
(The 40g tube may be supplied, only if the 25g tube is unavailable).			
Stock must be securely stored according to organisation			
medicines policy and in conditions in line with SPC, which is			
available from the MHRA website:			
https://products.mhra.gov.uk/			
Hydrogen peroxide 1% cream is incompatible with topical iodine,			
permanganates and other stronger oxidising agents.			



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	Due to the external administration of the product and application of the active ingredients at a low dose, systemic absorption is very unlikely. Therefore, no clinically significant interactions are expected.		
Identification & management of adverse reactions	A detailed list of adverse reactions is available in the SPC, which is available from the MHRA website: <u>https://products.mhra.gov.uk/</u>		
	The following side effect is listed in the product SPC for topical hydrogen peroxide cream (but may not reflect all reported side effects):		
	 Paraesthesia (mild sensation of burning), which may be experienced for a short time after application. 		
	See <u>Cautions</u> for further information.		
	In the event of a severe adverse reaction, the individual must be advised to stop treatment immediately and seek urgent medical advice.		
Management of	Healthcare professionals and		
and reporting	individuals/carers/parents/guardians are encouraged to report		
procedure for	suspected adverse reactions to the Medicines and Healthcare		
adverse reactions			
	reporting scheme on: <u>http://yellowcard.mhra.gov.uk</u>		
	Record all adverse drug reactions (ADRs) in the individual's		
	medical record/medical notes.		
	• If documenting an ADR in the individual's past mediation record		
	(PMR), the individual's GP should be notified also.		
	Report via organization incident policy.		
Written	Provide marketing authorisation holder's information leaflet (PIL)		
information to be	provided with the product (there is also a useful patient		
given to	information leaflet provided by <u>PrescQIPP</u> : registration required).		
individual/carer/p	<u>Signpost</u> individual/carer/parent/guardian to information re:		
arent/guardian	transmission and the importance of good hygiene to prevent		
	onward transmission		
	• Give any additional information in accordance with the service		
	specification.		
Individual advice /	• Explain the dose, frequency and method of administration.		
follow up	The individual/carer/parent/guardian should be advised to read		
treatment	the PIL (there is also a useful patient information leaflet provided		
	by <u>PrescQIPP</u> : registration required).		
	 Avoid contact with eyes: wash immediately with plenty of clean, cold water if comes into contact with eyes. 		
	 Hydrogen peroxide cream contains potential skin irritants: 		
	 Salicylic acid: a mild irritant which can cause dermatitis, Propylene glycol: can also cause skin irritation. 		
	 Hydrogen peroxide cream can bleach fabric. Avoid contact with fabric. 		
	Only apply to the affected area(s) and do not apply to large or		
	deep wounds or to healthy skin.		
	Advise individual/carer/parent/guardian to seek medical advice if		

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 their impetigo has not improved after completion of treatment course or is getting worse (e.g. is becoming more widespread), or symptoms worsen rapidly or significantly at any time. Advise individual/carer/parent/guardian to seek immediate medical attention (by calling 999 or going to A&E) if the individual develops signs or symptoms of sepsis. Inform individual/carer/parent/guardian of possible side effects and their management. A mild sensation of burning may be experienced for a short time after application and this is normal. Advise individual/carer/parent/guardian to apply the medication at regular intervals and to finish the course. The individual/carer/parent/guardian should be advised to seek medical advice in the event of an adverse reaction or if any other new symptoms develop. Individual/carer/parent/guardian should be advised of the following: Impetigo is contagious and transmission occurs directly through close contact with an infected individual or indirectly via contaminated objects (e.g. toys, clothing, or towels). Individuals, and if appropriate their family and carers/guardians, should be advised on good hygiene measures to reduce the spread of impetigo to other body areas and to other people. To help stop impetigo spreading or getting worse (while it's still contagious). Individuals are no longer contagious at hours after treatment has started OR when the lesions are healed, dry and crusted if no treatment is provided. Food handlers are required by law to inform employers immediately if they have impetigo Wash flannels, sheets and towels at a high temperature Wash or wipe down toys with detergent and warm water.
 Advise individual/carer/parent/guardian to complete the full course even if symptoms improve.
• Dispose of tube 28 days after opening. Return to pharmacy for
safe disposal. Do not dispose of medicines in the bin, down the sink or toilet.



Records

Appropriate records must include the following:

- That valid informed consent has been given
- Individual's name, address and date of birth
- Name of GP individual is registered with or record where an individual is not registered with a GP
- Name and registration number of registered healthcare professional operating under this protocol
- Specify how the individual has/has not met the criteria of the protocol
- Relevant past and present medical history and medication history
- Any known allergies and nature of reaction(s)
- Name/dose/form/quantity of medicine supplied
- Date and time of supply
- Documentation of cautions as appropriate
- Advice given, including advice given if individual excluded or declines treatment
- Details of any adverse drug reactions and actions taken
- Advice given about the medication including side effects, benefits, and when and what to do if any concerns.
- Any follow up and/or referral arrangements made.
- Any supply outside the terms of the product marketing authorisation
- The supply must be entered in the Patient Medication Record (PMR)
- That supply was made under a protocol
- Any safety incidents, such as medication errors, near misses and suspected adverse events
- Any additional requirements in accordance with the service specification:
 - The pharmacy contractor will ensure that a notification of the provision of the service is sent to the patient's general practice on the day of provision or on the following working day. Where possible, this should be sent as a structured message in real-time via the NHS assured Pharmacy First IT system. In the absence of an automated digital solution or if there is a temporary problem with the system, this should be sent via NHSmail or hard copy.
 - Where an action is required by the General Practice team (such as booking the patient in for a follow up or appointment) an action message or alternative form of an URGENT ACTION communication (rather than the standard post event message) must be sent to the practice.
- All records should be kept in line with <u>national guidance</u>. This includes individual data, master copies of the protocol and lists of authorised practitioners.

Records must be signed and dated (or a password controlled e-records).

All records must be clear, legible and contemporaneous.

A record of all individuals receiving treatment under this protocol must also be kept for audit purposes in accordance with the service specification.



Key references (last accessed November 2023)

- British Association of Dermatologists. Impetigo Patient Information Leaflet (PIL). <u>https://www.bad.org.uk/pils/impetigo/</u>
- Medicines and Healthcare products Regulatory Agency <u>https://products.mhra.gov.uk/</u>
- Electronic BNF <u>https://bnf.nice.org.uk/</u>
- Electronic BNF for children https://bnfc.nice.org.uk/
- Reig Jofre UK Limited. Crystacide 1% cream. Summary of Product Characteristics. Medicines and Healthcare products Regulatory Agency. <u>https://mhraproductsprod.blob.core.windows.net/docs-</u> 20200302/1604b32f4102b7c93966dea922fd4f77b1e8fdfc Accessed: 28th June 2023
- NICE Medicines practice guideline "Patient Group Directions" <u>https://www.nice.org.uk/guidance/mpg2</u>
- National Health Service. Impetigo. <u>https://www.nhs.uk/conditions/impetigo/</u>
- National Institute of Health and Clinical Excellence Clinical Knowledge Summary. Impetigo. <u>https://cks.nice.org.uk/topics/impetigo/</u>
- National Institute of Health and Clinical Excellence guideline 153 (NG153). Impetigo: antimicrobial prescribing, <u>https://www.nice.org.uk/guidance/ng153</u>
- UK Sepsis Trust. Sepsis e-learning resources. <u>https://sepsistrust.org/professional-resources/sepsis-e-learning/</u>
- Loadsman MEN, Verheji TJM, van der Velden AW. (Aug 2019) Impetigo incidence and treatment: a retrospective study of Dutch routine primary care data. *Family Practice*. Vol 36: 4: 410–16. <u>https://doi.org/10.1093/fampra/cmy104</u>



Appendix A – example registered health professional authorisation sheet (example – local versions/electronic systems may be used)

Protocol Name/Version Valid from: Expiry:

Before signing this protocol, check that the document has had the necessary authorisations. Without these, this protocol is not lawfully valid.

Registered health professional

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

Protocols 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 protocol and that I am willing and competent to work to it within my professional code of conduct.

Name	Designation	Signature	Date

Authorising manager

I confirm that the registered health professionals named above have declared themselves suitably trained and competent to work under this protocol. I give authorisation on behalf of insert name of organisation for the above named health care professionals who have signed the protocol 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 protocol.

Add details on how this information is to be retained according to organisation protocol

policy.