Grŵp Strategaeth Meddyginiaethau Cymru Gyfan
All Wales Medicines Strategy Group

All Wales Common Ailments Service Formulary

This document has been prepared by the Welsh Medicines Advice Service, with support from the All Wales Prescribing Advisory Group (AWPAG) and the All Wales Therapeutics and Toxicology Centre (AWTTC), and has subsequently been endorsed by the All Wales Medicines Strategy Group (AWMSG).

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1.0 Acne vulgaris

1.1 About the ailment^{1,2}

Acne vulgaris is a common type of acne that primarily affects the face, back, and chest. It is most common in adolescence, but may affect those in any age group. Comedones (blackheads and whiteheads) are always present but there may also be inflammatory lesions known as papules (small red bumps that may feel sore), and pustules (pus-filled spots). There may be larger nodules or cysts which are often painful. The skin and hair may appear oily and there may be scarring and pigmentation.

- **Mild acne** predominantly non-inflamed lesions (open and closed comedones) with few inflammatory lesions.
- Moderate acne more widespread with an increased number of inflammatory papules and pustules.
- Severe acne widespread inflammatory papules, pustules and nodules or cysts. Scarring may be present.

1.2 Possible complications^{1,2}

More serious types of acne that should be referred, include:

- conglobata a severe form of nodulo-cystic acne with interconnecting sinuses and abscesses
- acne fulminans a very serious form of acne conglobata that is associated with systemic symptoms (such as fever and arthralgia)

1.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)²⁻⁴

Refer individuals:

- under 12 years of age
- when one first line treatment has not worked and the acne is mild to moderate
- with moderate to severe acne with a large number of inflammatory lesions (especially if there are nodules or cysts present)
- with fever or arthralgia (urgent same day referral)
- when oral therapies have previously been used for acne
- when medication (e.g. anabolic steroids, lithium and some anti-epileptic drugs) may be contributing to the acne
- with acne of any severity (or acne-related scarring), that is causing or contributing to psychological distress or a mental health disorder
- if there is diagnostic uncertainty

1.4 Overview of treatment²

Patients with acne vulgaris should be offered a 12-week course of a first line treatment option to be applied once daily in the evening initially; frequency can be reduced if skin irritation occurs.

Mild to moderate acne

- A combined topical benzoyl peroxide (3% or 5%) and topical clindamycin (1%) preparation (i.e. Duac Once Daily[®] gel). If Duac Once Daily[®] gel is not suitable, consider referral to the GP for treatment with a topical clindamycin/retinoid combination preparation (e.g. Treclin[®]) or a topical benzoyl peroxide/adapalene combination preparation (e.g. Epiduo[®]).
- Consider topical benzoyl peroxide as monotherapy if the above options are contraindicated or the person wishes to avoid using a topical retinoid or antibiotic.
- First line treatment should be reviewed at 12 weeks by the GP to assess treatment success and if there is a need for maintenance treatment.

Moderate to severe acne

Refer to GP for assessment.

1.5 Treatments^{1,2-6}

Medication	1st line			2 nd line Only offer if, after discussion with the individual, other options no thought to be suitable (including those available via GP)		
Generic name	Benzoyl peroxide (3% or 5%) with clindamycin (1%) gel (Duac Once Daily® gel)			Benzoyl peroxide 5% gel		
Legal class	POM (supply via PGD)		GD)	P Supply via PGD for an individual who is pregnant/breastfeeding		
Pack size		30 g	60 g	30 g	60 g	
Maximum number of	1 st	2	2	4	2	
packs to supply per consultation	2 nd 1 1		1	The maximum quantity supplied will be sufficient to complete a 12-week treatment course		
Maximum number of consultations per episode [†]	2*			1		

Maximum number of episodes per year	1	1				
Dosing instructions	As per PGD	Apply once daily initially. Can be applied up to twice a day if tolerated. Reduce frequency if there is irritation.				
	Not re	ecommended in individuals under 12 years of age				
Key information to consider prior to supply	See PGD *N. B Manufacturer gives a shelf life of 2 months after dispensing. Individuals will need a further consultation for final month's supply	Supply via PGD for an individual who is pregnant/breastfeeding				
	Refer to the BNF/SPC for full details on interactions, adverse effects, cautions and contraindications.					
Counselling advice	See PGD	 Allergic contact dermatitis occurs in 1 in 500 people. Stop treatment and seek advice if itching and swelling of the eyes occurs. Bleaching may occur. Avoid contact with hair or clothes. Dry, red, peeling or blistering skin may occur, including a burning, itching sensation at the start of treatment. Start with alternate-day or short-contact application (washing off after an hour). If skin irritation occurs, reduce the frequency of application or stop use (at least temporarily). Avoid repeated exposure to sunlight or other sources of UV light (e.g. sun bed). 				

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

1.6 Advice for patients²⁻⁴

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Skin care/cleansing

- Acne is not caused by poor hygiene; avoid over-cleaning the skin (which may cause dryness and irritation).
- Try not to pick or squeeze spots because this aggravates them and may cause scarring.
- Use a non-alkaline (skin pH neutral or slightly acidic) synthetic detergent cleansing product twice daily on acne-prone skin.
- If dry skin is a problem, use a fragrance-free water-based emollient.
- Shower as soon as possible after exercise as sweat can irritate acne.
- Wash hair regularly and avoid letting it fall across the face.

Diet

• There is not enough evidence to support specific diets for treating acne but do maintain a healthy diet.

Cosmetic products

- Avoid using heavy make-up/ cosmetics.
- Avoid oil-based comedogenic skin care products, make-up and sunscreens.
- If make-up is used it should be removed at the end of the day.

Treatment

- Treatment with products containing benzoyl peroxide takes time to work (typically up to 6 weeks to become noticeable).
- Apply the product sparingly after washing the skin with a mild cleanser, then gently pat skin dry.
- Avoid applying to the eyes, mouth, angles of nose and mucous membranes, eczematous, broken or sunburned skin.
- Treatments may cause increased sensitivity to sunlight avoid sun and UV light, or wear oil-free sunscreen (SPF 30 or above).
- If skin is sensitive, start at a lower frequency (e.g. three times per week), increasing to daily as tolerated.
- Seek medical advice if the acne does not improve within 6 weeks, or sooner if it becomes worse.

If you feel you are not improving, or are getting worse, despite lifestyle changes and/or completion of a treatment course, please make an appointment to discuss with your GP.

2.0 Allergic rhinitis

2.1 About the ailment⁷

Allergic rhinitis is an inflammatory disorder of the nose which occurs when the nasal mucosa becomes sensitised to allergens. Classic symptoms include sneezing, nasal itching, rhinorrhoea (nasal discharge) and congestion. Bilateral symptoms typically develop within minutes of allergen exposure. There may also be associated allergic conjunctivitis, asthma, or eczema.

Non-classical symptoms include:

- cough
- itching of the palate
- postnasal drip
- features suggestive of chronic nasal congestion i.e.
 - o snoring
 - mouth breathing
 - o halitosis

Symptoms can be intermittent (< 4 days/week **or** for less than four consecutive weeks) or persistent (> 4 days/week **and** for more than 4 consecutive weeks) and can be classified as:

- seasonal (hay fever) symptoms occur at the same time each year due to e.g. grass/tree pollen
- perennial symptoms occur throughout the year due to e.g. dust mites, animal dander
- occupational symptoms due to exposure to allergens in the work environment e.g. flour allergy in a baker

2.2 Possible complications⁷

- Impaired home and social life.
- Impaired school or work performance.
- Disturbed sleep.
- Reduced concentration.
- Irritability.
- Possible development of asthma, sinusitis or nasal polyps.
- Oral allergy syndrome oral itching and swelling due to cross-reactivity between aeroallergens, e.g. birch pollen, fruits and vegetables.

2.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)⁷

- Individuals under 2 years of age.
- Red flag symptoms e.g. unilateral symptoms, fever, shortness of breath, recurrent epistaxis or nasal pain, anosmia, or visual disturbance.
- Infective rhinitis is suspected (acute onset of symptoms of one week or less) e.g. extreme tenderness around the eyes or nose.
- Symptoms may be medication-related e.g. decongestants (rebound congestion), alpha-blockers, ACE inhibitors, beta-blockers, aspirin and NSAIDs.
- Symptoms may be due to non-allergic cause e.g. chemical, physical, endocrine, food and drink, systemic, structural.
- Symptoms are refractory to treatment.
- Allergy testing may be needed (e.g. refractory symptoms and possible atopic history/family history of allergies refer to the GP).
- Diagnostic uncertainty.

When to refer to registered optometrist (where onward referral to ophthalmology may be required)

- Contact lens wearers, where corneal involvement is not suspected (as this would require referral to eye casualty).
- Suspected atopic or vernal keratoconjunctivitis.
- Severe or treatment-resistant allergic conjunctivitis.
- Diagnostic uncertainty.

Referral to eye casualty or A&E

- Red flag symptoms (with/without red eye) such as:
 - o marked pain in the eye
 - o photophobia
 - o headache
 - o change in visual acuity
 - o pupillary abnormality
- Inability to open the eye or keep it open.
- Suspected corneal involvement in contact lens wearers.
- History of trauma (mechanical, chemical, or ultraviolet) or possible foreign body.
- Copious, rapidly progressive discharge-may indicate gonococcal infection.
- Possible herpes virus infection.
- Systemic disease associated with eye symptoms (such as rheumatoid arthritis or Sjogren's syndrome).

Red, sticky eye in neonates less than 30 days old.

2.4 Overview of treatment⁷

Initial management should include advice, possible use of saline nasal irrigation (can be bought OTC or made at home) and allergen avoidance.

Ask about:

- type, frequency, persistence, and location of symptoms (indoors or outdoors)
- housing conditions, pets and occupation
- severity of symptoms and impact on the person's quality of life e.g. sleep, concentration, mood, behaviour, fatigue, leisure activities, school and work

For *mild-to-moderate intermittent* or *mild, persistent symptoms*, treatment options include:

- an intranasal antihistamine ("as-needed") OR
- a non-sedating oral antihistamine AND/OR
- mast cell receptor inhibitor eye drops (i.e. sodium cromoglicate eye drops)

If initial drug treatment is ineffective or for moderate-to-severe persistent symptoms, treatment options include:

addition of a regular intranasal corticosteroid during periods of allergen exposure

2.5 Treatments^{1,7,8}

intranasa	For <i>mild-to-moderate intermittent</i> and for <i>mild, persistent</i> symptoms: intranasal antihistamine OR non-sedating oral antihistamine AND/OR mast cell receptor inhibitor eye drops								
Medication	1 st line	1 st line alternative (in place of azelastine			2 nd line (due to cost)	If an ocular mast-cell stabiliser indicated e.g. a watery, itchy eye (in keeping with symptoms of seasonal or perennial allergic conjunctivitis)			
Generic name	Azelastine 140 mcg/dose nasal spray (Rhinolast®)	Loratadine 5 mg/5 mL oral solution S/F	Loratadine 10 mg tablets	Cetirizine 10 mg tablets	Cetirizine 1 mg/mL S/F oral solution	Sodium cromoglicate 2% w/v eye drops			
Legal class	POM (see PGD)			Р		Р			
Pack size	22 mL	100 mL	30 tablets	30 tablets	200 mL	10 mL			
Max. number of packs to supply per consultation	A maximum of 6 months of treatment can be provided in any 12-month period, with a maximum of 3 months								
Maximum number of consultations per episode [†]	Only su	Only supply for subsequent presenting episodes (after initial supply) if treatment has been effective							
Max. number of episodes per year									

Dosing instructions	For ≥ 6 years of age: 1 spray in each nostril twice daily	Child 2–11 years old (*): Body weight ≤ 30 kg: 5 mg once daily Body weight ≥ 31 kg: 10 mg once daily 12 years old and over: 10 mg once daily	Child 2–5 years old (**): 2.5 mg twice daily Child 6–11 years old (***): 5 mg twice daily 12 years old and over: 10 mg once daily	Adults and children over 6 years old: 1 drop up to four times a day in each eye	
See PGD -Faster onset of action compared to oral preparations -If symptoms persist after 4 weeks		Suitable for ≥ 2 years of age Caution in pregnancy and breastfeeding – use only if necessary If symptoms persist after 4 weeks of treatment, advise the patient to return for step-up management. (*) Loratadine tablets only suitable if ≥ 6 years of age AND >30 kg. (**) Cetirizine tablets only suitable for ≥ 6 years of age. (***) Check cetirizine product licensing as variation between brands on formulations for different ages. Caution in pregnancy – use or if necessary. Unknown if excreted in breast milk but considered unlikely. No information to suggest any undesirable effects on the bab would result.			
	treatment, advise the patient to return for step- up management	Refer to the BNF/SPC for full details on interactions, adverse effects, cautions and			

Counselling advice		Although these are classed as "non-sedating" antihistamines, some individuals may still experience sedation so care should be taken if driving or operating machinery. Effects may be enhanced by alcohol. Transient stinging/burning/blurring of vision may be experienced or instillation of the drops. Contact lenses should not be worn during treatment.							
Relative cost of treatment course (£-£££)*	££	£-££ £ £				£			
*		£= up to £5 ££= £5-£15 £££= over £15							

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

lf <i>initi</i> a		ridual presents with <i>moderate-to-sev</i> stranasal corticosteroid nasal spray	ere persistent symptoms:					
Medication		Options						
Generic name	Mometasone furoate 50 mcg/dose nasal spray	Fluticasone furoate 27.5 mcg/dose nasal spray	Fluticasone propionate 50 mcg/dose nasal spray					
Legal class	POM (see PGD)	POM (see PGD)	POM (see PGD)					
Pack size	140 doses	120 doses	150 doses					
Max. number of packs to supply per consultation Max. number of consultations per episode† Max. number of episodes per year	A maximum of 6 months of treatment can be provided in any 12-month period, with a maximum of 3 months treatment supplied at any one time Only supply for subsequent presenting episodes (after initial supply) if treatment has been effective							
Dosing instructions		See PGD						

Key information	See PGD				
to consider prior to supply	Do not switch to an alternative preparation if trial of a steroid nasal spray is ineffective as they all have comp efficacy.				
Counselling	See PGD				
advice	Onset of action is 6-8 hours	after the first dose but maximal effect may	/ not be seen until after 2 weeks.		
Relative cost of treatment course (£-£££)*	£	££	££		
*		£= up to £5 ££= £5-£15 £££= over	£15		

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

2.6 Advice for patients⁹

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Lifestyle:

- Allergen avoidance (if a specific identified allergen is the cause of symptoms). Examples include:
 - o wearing wraparound sunglasses to protect your eyes from pollen
 - o use synthetic bedding and covers wash bedding regularly at ≥ 60°C
 - o dust with a damp cloth and use a vacuum with a HEPA filter
 - o do not allow pets in bedrooms and wash them at least once every 2 weeks groom them outside regularly
 - o regularly wash your pet's bedding and clean any furniture they've been on
 - o avoid drying clothes outside when pollen count high
 - o keep your home dry and well-ventilated; resolve any damp/condensation issues
- Signpost to information and support e.g. for hay fever direct patient to the Allergy UK website (https://www.allergyuk.org/types-of-allergies/hayfever/)

Medication:

- Correct technique is very important when using nasal sprays for optimal response:
 - o shake the container well and look down
 - o using the right hand for the left nostril, put the nozzle just inside the nose aiming for the outside wall
 - squeeze once or twice (as per dosing instructions) in different directions, while breathing in gently through the nose do not sniff

- o change hands, then repeat for the other nostril
- seek medical advice (or local optometrist advice if eye symptoms are not improving/worsening) if symptoms do not improve after initial treatment (including corticosteroid nasal spray and/or sodium cromoglicate eye drops where appropriate); or if fever, shortness of breath, recurrent epistaxis or nasal pain occurs

If you feel you are not improving, or are getting worse, despite lifestyle changes and/or completion of a treatment course, please make an appointment to discuss with your GP.

3.0 Athlete's foot

3.1 About the ailment^{10,11}

Athlete's foot (tinea pedis) is a superficial fungal infection of the feet and toes, but can spread to involve the sole, the sides of the foot and the toenails. The foot should be examined to confirm the diagnosis.

Symptoms include:

- itchy, white patches between the toes
- red, sore and flaky patches on the feet
- scaly, blistering skin that may crack and bleed

3.2 Possible complications¹²

- Secondary bacterial infection (immunocompromised people are at increased risk).
- Spread of fungal infection (e.g. to hands due to scratching) inappropriate use of topical corticosteroids can also cause infection spread, and change lesion appearance.
- Reaction to the fungus causing a disseminated itchy, papular or vesicular eruption, around the outer helix of the ear, which may also affect the trunk or limbs. This may accompany the start of oral antifungal treatment, and may be misinterpreted as a widespread fungal infection.

3.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)¹²

- Severe or extensive disease.
- Signs of bacterial infection.
- Immunocompromised individuals.
- Recurrent episodes.
- No improvement after 1 week of treatment.
- · Significant pain and discomfort.
- Individuals who have diabetes and:
 - o there are concerns regarding diabetic control
 - the individual is at increased risk of detrimental symptoms associated with poorly controlled diabetes; symptoms can include thirst, blurred vision, fatigue and increased frequency of urination, poor sensation to extremities and poor circulation
 - o the individual is unsure how to manage their diabetes
- Individuals under 1 month of age

• Diagnostic uncertainty

3.4 Overview of treatment^{1,12-16}

Supply treatment to people who have not yet received any for this episode:

- clotrimazole 1% cream/miconazole 2% cream/terbinafine 1% cream for mild, non-extensive disease
- hydrocortisone 1% cream if there is associated marked inflammation, this can be used short-term, in addition to antifungal cream but not alone

Treatment with a topical antifungal cream may be repeated in the future if there is a good response to topical treatment and there are recurrent episodes of mild, non-extensive disease.

3.5 Treatments^{1,8,12-16}

Medication		Options						
Generic name	Terbinafine 1% cream	Clotrimazole 1% cream	Miconazole nitrate 2% cream (Daktarin®)	Hydrocortisone 1% cream				
Legal class	POM (supply via PGD)	P (supply via PGD)	Р	POM (supply via PGD)				
Pack size	30 g	20 g	30 g	15 g				
Maximum number of packs to supply per consultation	1	3	2	1				
Maximum	2	2	2	2				
number of consultations per episode [†]		f an alternative treatment option is being supplied within the same episode, pharmac if individual is using the preparation correctly, in correct quantities for the du						
Maximum number of episodes per year	2	2	2	2				

Dosing Instructions	See PGD	Apply 2–3 times a day for at least 4 weeks.	Apply twice a day, for 2–6 weeks depending on severity. Continue for 10 days after the affected area has healed.	See PGD				
Key information to consider prior to supply	See PGD	Topical clotrimazole may increase tacrolimus levels.	Do not issue miconazole to people using interacting medicines, particularly warfarin; consider clotrimazole instead. Manufacturer advises caution in pregnancy and lactation.	See PGD				
	Choice is based on contraindications and individual's preference – similar cost and efficacy.							
	Refer to the BNF/SPC for full details on interactions, adverse effects, cautions and contraindication							
		Avoid contact with the eyes and mucous membranes during use.						
Counselling advice	Do not smoke	Do not smoke or go near naked flames while using these creams: serious fire hazard (clotrimazole). See PGDs						
Relative cost of treatment course (£-£££) *	££	£-£££	££-£££	£				
*		£ = up to £1.50	££ = £1.50 to £3.50 £££= over £3.50					

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

3.6 Advice for patients^{10-12,15}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

When treating the infection

- Wash and dry the affected skin before applying the treatment and clean your hands afterwards.
- Antifungal treatment should be applied to the affected skin and surrounding area.
- Do not scratch affected skin as this can spread the infection to other parts of your body.
- Seek medical advice if the condition does not improve within a week of treatment.

To prevent recurrence

- Wear footwear that keeps the feet cool and dry, leaving shoes and socks off as much as possible when at home.
- Wear a fresh pair of cotton socks every day.
- Change to a different pair of shoes every 2–3 days.
- Wash the feet daily, then dry them thoroughly, especially between the toes.

- Avoid using moisturisers between the toes because this may help fungi to multiply.
- Antifungal dusting powders may help prevent re-infection.

To reduce transmission risk

- Do not share towels, and wash them frequently.
- Avoid going barefoot in public places (wear protective footwear, e.g. flip-flops, in communal changing areas).

If you feel you are not improving, or are getting worse, despite lifestyle changes and/or completion of a treatment course, please make an appointment to discuss with your GP.

4.0 Lower back pain without radiculopathy (acute)

4.1 About the ailment¹⁷⁻¹⁹

Acute lower back pain without radiculopathy (pinched nerve in spine) can also be described as simple, non-specific, mechanical and musculoskeletal in nature. Symptoms may also include stiffness, and/or soreness of the lumbosacral region. It is commonly encountered and usually resolves within a few weeks, although it may recur. Often, the exact cause is unclear (i.e. non-specific back pain).

Risk factors for the development of non-specific low back pain include:

- obesity
- · physical inactivity
- occupational factors (e.g. heavy lifting, bending, twisting)
- · stressful life events or depression

Back pain can be caused by serious conditions, for example:

- cauda equina
- malignancy
- infection

See <u>Section 4.3</u> below for further details.

4.2 Possible complications^{17,20}

- Time off work leading to psychological and economic implications, reduced productivity, and loss of employment.
- Development of chronic pain and associated syndromes.
- Immobility, physical deconditioning and increased risk of falls.
- Impact on daily activities and sleep.
- Depression and anxiety.

4.3 When to refer to A&E/GP (or Pharmacist Independent Prescriber if thought to be appropriate)^{20,21}

Red flag symptoms

Call 999 or advise the individual to go to A&E if experiencing back pain which:

- suggests severe or progressive neurological deficit
- involves new onset pain, tingling, weakness or numbness in both legs
- involves numbness or tingling around the genitals or buttocks (saddle anaesthesia or paraesthesia)

- is associated with recent-onset bowel/bladder dysfunction (loss of control or retention) or impaired/altered sensation
- is associated with chest pain
- started after trauma, or strenuous lifting in people with osteoporosis
- · involves sudden onset of severe central spinal pain relieved by lying down
- is associated with recent onset erectile or sexual dysfunction
- involves new onset of a lump or structural deformity of the spine
- involves point tenderness over a vertebral body

Refer to GP

If signs or risk factors of infection could be the cause of the back pain, for example, if the individual has:

- a fever, is systemically unwell or has had a recent infection
- a history of intravenous drug use
- a risk of immunosuppression (e.g. due to cancer treatment/high doses of oral steroids/other immunosuppressants, or conditions that lower the immune system, like HIV infection)
- diabetes mellitus

If the lower back pain is in combination with the factors below, because this may be a sign of cancer:

- age over 50 years
- gradual onset of symptoms
- history of cancer
- severe, unrelenting pain
- localised spinal tenderness
- no symptomatic improvement after 3–4 weeks conservative back pain home treatment/therapy
- unexplained weight loss
- the pain is made worse when sneezing, coughing or defecating

Other:

- under 18 years of age
- pregnancy/breastfeeding
- · pain stopping day-to-day activities
- osteoporosis
- unilateral leg pain radiating below the knee to the foot or toes
- if the individual is worried about pain/struggling to cope

- no symptomatic improvement after 3–4 weeks
- pain coming from the middle/top of the back (e.g. between shoulders), rather than the lower back
- trauma that does not require attendance to A&E (see above)
- · diagnostic uncertainty

4.4 Overview of treatment^{17,20}

Non-pharmacological approaches to control pain should be discussed first:

• patient education, encouragement to return to normal activity, and self-care temperature treatments (ice, heat) are the first steps in therapy (refer to list of resources in <u>Section 4.6 Advice for patients</u>, below).

If these are ineffective, pharmacotherapy options include:

- non-steroidal anti-inflammatory drugs (NSAIDs) +/- paracetamol
 - a proton-pump inhibitor (PPI) should be issued alongside an NSAID if an individual is at a high risk of a GI adverse event
 - o a PPI can be issued alongside an NSAID if an individual is at a moderate risk of a GI adverse event

Individuals are considered:

- high risk if they have a history of previously complicated ulcer, or more than 2 risk factors
- moderate risk if they have 1 to 2 risk factors

Risk factors for NSAID-induced GI adverse events include:

- age over 65 years
- high dose of an NSAID
- history of gastroduodenal ulcer, GI bleeding, or gastroduodenal perforation
- concomitant use of medications that are known to increase the likelihood of upper GI adverse events (e.g. anticoagulants, corticosteroids, selective serotonin reuptake inhibitors [SSRIs])
- serious comorbidity, such as cardiovascular disease, hepatic or renal impairment (including dehydration), diabetes, or hypertension
- heavy smoking
- excessive alcohol consumption
- previous adverse reaction to NSAIDs
- prolonged requirement for NSAIDs

• Although data suggests that paracetamol monotherapy for lower back pain may not provide relief of symptoms, some patients find it useful, therefore it may be offered if there are no other suitable options.

4.5 Treatments^{1,20,22-24}

Non-pharmacological treatment options should be discussed prior to considering any treatment options below.

Please note: individuals receiving a PPI cover for NSAID use may have a supply lasting beyond 14 days; advise them that the PPI should only be taken for the duration of the NSAID and any remaining capsules should be returned to a community pharmacy for appropriate destruction.

Paracetamol dosing and dose/dosing interval adjustments in ADULTS

Dose of	Dose of ORAL paracetamol in ADULT patients WITHOUT risk factors for paracetamol toxicity and ≥50 kg				
500 m	500 mg or 1 gram up to four times daily (minimum 4 hours between doses). Maximum 4 grams in 24 hours.				
	Dose of ORAL paracetamol in ADULT patients WITH risk factors for paracetamol toxicity*				
Body weight	Dose reduction up to a maximum of 15 mg/kg body weight per dose				
33 kg to < 40 kg	500 mg up to four times a day (minimum 6 hours between doses). Maximum 2 grams in 24 hours.				
40 kg to < 50 kg	500 mg or 1 gram up to four times a day (minimum 6 hours between doses). Maximum 3 grams in 24 hours.				
≥ 50 kg	500 mg or 1 gram up to four times a day (minimum 4 hours between doses). Maximum 3 grams in 24 hours.				

^{*}Risk factors for paracetamol toxicity:

- body weight less than 50 kg
- chronic alcohol overconsumption
- severe liver disease
- increasing age and/or frailty where paracetamol might have been prescribed for significant periods and who have morbidities and polypharmacy, which can further increase their risk of inadvertent overdose and toxicity
- chronic malnutrition with nutritional deficiency and/or chronic debilitating illness and therefore likely to be glutathione deplete e.g. acute or chronic starvation (patients not eating for a few days), eating disorders (anorexia or bulimia), cystic fibrosis, AIDS, cachexia, alcoholism, cirrhosis
- chronic dehydration
- hepatic enzyme induction or evidence of ongoing liver injury e.g. long-term treatment with liver enzyme-inducing drugs such as carbamazepine, phenobarbital, phenytoin, primidone, rifampicin, rifabutin, efavirenz, nevirapine, St John's wort; regular consumption of ethanol in excess of recommended amounts, particularly if nutritionally compromised

Medication		1s	^t line options		1 st line	adjunct	If PPI cove	er needed
Generic name	Ibuprofen 200 mg tablets		lbuprofen 10% w/w gel	Naproxen 250 mg gastro-resistant tablets	Paracetamol 500 mg tablets		Lansoprazole 15 mg capsules	Omeprazole 20mg capsules
Legal class	GSL	Р	POM	POM (see PGD)	GSL	Р	POM (see PGD)	POM (see PGD)
Pack Size	24 tablets	84 tablets	100 g	28	32	100 (only supply this quantity if no dose reduction)	28	28
Maximum number of packs to supply per consultation	1		1	1	1		1	1
Maximum number of consultations per episode [†]	1		1	1	1		1	1
Maximum number of episodes per year	1		1	1	1		1	1
Dosing instructions	See pack details		Apply 2–5 cm onto the affected area up to 4 times daily and gently massage in	See PGD	See table above		See PGD	See PGD

Key information to consider prior to supply	Relative contraindications to NSAIDs include: heart failure, hypertension, ischaemic heart disease, peripheral arterial disease, cerebrovascular disease, renal impairment and peptic ulceration; caution in asthma. Refer to the BNF/S		See PGD	See PGD	 Caution and advise dose reduction if any risk factors for hepatotoxicity present (see table above). Consider if individual is taking any other paracetamol-containing products prior to supply and advise accordingly. 	See PGD	See PGD
Counselling advice	Take with or just after food, or a meal. Advise lowest effective dose for shortest duration possible.		Wash hands after each application. Do not exceed the stated dose. Avoid contact with eyes, mucous membranes and inflamed or broken skin. Do not smoke or go near naked flames: risk of severe burns	See PGD	Paracetamol should, ideally, not be used alone for managing low back pain. Encourage regular use of paracetamol in conjunction with an NSAID if tolerated/appropriate.	See PGD	See PGD
Relative cost of treatment course (£-£££)*	£	££	£££	£	£	£	£
*	£= up to £2.50						

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

4.6 Advice for patients^{17,18,20,21}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Advise the individual to report any red flag signs or symptoms and/or seek advice if symptoms worsen and/or seek a follow-up with the GP if symptoms persist after 3–4 weeks.

Patient education

- Signpost to patient support websites, such as NHS Choices for self-management advice including exercises and stretches for back pain (see links below).
- Encourage return to daily activities/work as soon as possible; normal back movements may cause some pain, but this should not be harmful if activities are resumed gradually.
- Advise on expected time course of pain.
- Advise individual to seek help for depression/other psychological conditions that may worsen symptoms.

Lifestyle

- · Weight loss (if appropriate).
- Keep as active as possible and exercise regularly to reduce risk of recurrent episode.
- Avoid occupational hazards/activities which may worsen symptoms e.g. heavy lifting.

Non-pharmacological options

- Heat application from various products (e.g. a hot water bottle/patch) may allow a short-term reduction in pain and stiffness for individuals presenting with acute/subacute lower back pain.
- Massage, if recommended by a trained professional (e.g. a physiotherapist), may improve short-term symptoms.
- A physiotherapy consultation is an option an individual may wish to seek privately or via GP.

Signposting

- The NHS website has a section on back health including useful exercises:
 https://www.nhs.uk/livewell/backpain/pages/backpainhome.aspx and https://www.nhs.uk/conditions/back-pain/
- The Backcare website has various leaflets, including top 10 tips for back pain, back pain in the workplace and exercises for back pain: www.backcare.org.uk
- The Chartered Society of Physiotherapy (www.csp.org.uk) list a number of patient resources in their web section "Back pain".

• Keele University's <u>STarT Back resources (https://startback.hfac.keele.ac.uk/patients/)</u> include written and animated information as well as an augmented reality app.

If you feel you are not improving, or are getting worse, despite lifestyle changes and/or completion of a course of recommended medication, please make an appointment to discuss with your GP.

5.0 Chickenpox (in children under 14 years of age)

5.1 About the ailment²⁵⁻²⁷

Chickenpox (varicella) is a highly contagious viral infection that causes an acute fever and blistered rash, mainly in children. It has an incubation period of 7–21 days and generally self-resolves. Treatment is aimed at relieving symptoms and ensuring hydration is maintained. Chickenpox is usually a self-limiting, relatively mild disease without complications.

Typical features include a prodrome of nausea, fever, headache, myalgia, loss of appetite and general malaise.

Diagnosis of chickenpox can be made clinically from the characteristic rash:

- the rash usually presents as small, itchy, red spots on the scalp, face, trunk and proximal limbs
- these progress over 12–24 hours forming clear vesicles and pustules which are intensely itchy
- palms, soles and mucous membranes may be affected, with painful and shallow oral or genital ulcers
- crusting usually occurs within 5 days of the onset of the rash, and crusts fall off after 1–2 weeks
- immunosuppressed individuals with chickenpox may have an atypical rash and more extensive lesions (which may be haemorrhagic)
- the most infectious period is within 24 hours before the rash appears and infectivity continues until all the lesions have crusted over (usually about 5 days after the rash appears)

5.2 Possible complications²⁶⁻²⁸

- Secondary bacterial skin infection sudden high-grade or prolonged pyrexia (often after initial improvement), erythema and tenderness surrounding the original chickenpox lesions; the redness may be harder to see or appear a different colour on darker skin tones.
- Dehydration reduced urine output, lethargy, cool peripheries, reduced skin turgor.
- Chest infection persistent cough, difficulty breathing and chest pain.
- Neurological complications including encephalitis confusion, irritability, drowsiness, vomiting, weakness, severe headache and neck stiffness.

If any of the above are present medical attention must be sought immediately

Severe disease and complications are more likely to occur in children younger than 1 year of age, adolescents, adults, pregnant women and immunocompromised individuals.

5.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)²⁶⁻²⁸

Refer to the GP or NHS 111 immediately for same day assessment if:

- the child is under 2 months old
 - urgently refer any babies born prematurely (< 37 weeks where baby's age is less than 4 weeks adjusted) because neonates are at increased risk of disseminated or haemorrhagic varicella
- signs present of being systemically unwell or showing symptoms suggestive of complications
- immunosuppression concerns or the individual has chronic skin, heart or respiratory disease
- persistent or recurrent fever present (may indicate secondary infection)
- treatment is required (and the appropriate treatment must be prescribed)
- diagnostic uncertainty

5.4 Overview of treatment^{26,29}

- Paracetamol can be considered if fever or pain is causing distress.
- Topical calamine lotion can be used to alleviate itch.
- Chlorphenamine may be useful to treat itch, especially if sleep is disturbed.
- NSAIDs should be avoided in children with varicella as they may be associated with increased risk of skin infections.

5.5 Treatments^{1, 8, 30-32}

Medication	Analgesic/antipyretic: if pain or fever causing distress			Astringent: to alleviate itch	Antihistamine: for treating itch	
Generic name	Paracetamol 120 mg in 5 mL sugar-free oral suspension	Paracetamol 250 mg in 5 mL sugar-free oral suspension	Paracetamol 500 mg tablets	Calamine lotion	Chlorphenamine 2 mg in 5 mL oral solution	Chlorphenamine 4 mg tablets
Generic name					Only Piriton® syrup licensed	Only Piriton [®] tablets licensed in this pack size
Legal class	Р	Р	Р	GSL	Р	Р
Pack size	100 mL	200 mL	32	200 mL	150 mL	30
Maximum number of packs to supply per consultation	packs to supply 1			1	1	

Maximum number of consultations per episode [†]	1			1	1			
Suggested maximum number of episodes per year	1			1	1			
Dosing instructions	As per pack	As per pack	As per pack	As per pack	As per pack	As per pack		
Key information to consider prior to supply	Not licensed for children < 2 months old.	A maximum of 1 x 200 mL suspension may be supplied for children over 12 years who are unable to take paracetamol tablets.	As per pack	As per pack	Not licensed for children < 1 year old.	Not licensed for children < 6 years old.		
	Refer to the BNF/SPC for full details on interactions, adverse effects, cautions and							
	contraindications.							
Counselling Advice	See pack for further details			As per pack	Sedating antihistamine to help relieve itching may cause drowsiness, dry mouth and			
Counselling Advice					relieve itching may cause			

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

5.6 Advice for patients²⁶⁻²⁸

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

- Ensure adequate fluid intake to avoid dehydration ice lollies can be used if the child is not drinking.
- Wear smooth, cotton fabrics, avoid over heating or shivering.
- Keep nails short and clean to minimise scarring and secondary bacterial infection from scratching.
- Bathe in cool water dab or pat the skin dry afterwards, rather than rubbing it.
- Cooling creams or gels may ease itching.
- Children with chickenpox should be kept away from school or nursery until the last blister has scabbed over.

- Air travel may not be allowed until 5 days after appearance of the last spot (when it has crusted over) parents/carers should contact their airline and travel insurance companies.
- Seek urgent medical advice if there are signs of deterioration or complications such as:
 - o bacterial superinfection the skin around the chickenpox blisters is hot, painful and red, but redness may be harder to see on brown or black skin; there may be sudden fever (often after initial improvement)
 - dehydration feeling thirsty, dizzy or tired, dark yellow and strong-smelling pee, peeing little, and fewer than 4 times a
 day, dry mouth lips and eyes
 - o chest infection persistent cough, wheezing, difficulty breathing and chest pain
 - o drowsiness, confusion, vomiting, weakness, severe headache and neck stiffness
- During the period of infectivity, a child with chickenpox should avoid contact with:
 - o people who are immunocompromised (e.g. those receiving cancer treatment or high doses of oral steroids or other immunosuppressants or those with conditions that reduce immunity)
 - o infants aged less than 4 weeks
 - o pregnant women

If you feel your child is not improving, or is getting worse, despite adhering to advice and/or trialling medication options if appropriate, please make an appointment to discuss with your GP.

6.0 Cold sores

6.1 About the ailment³³⁻³⁵

Cold sores are caused by the herpes simplex virus (HSV) infecting the lips, cheeks, nose or oropharyngeal mucosa, and are commonly passed on by skin contact. After the first infection, the virus settles in a nearby nerve sheath and remains there lifelong. For many, the virus lies dormant and causes no symptoms. However, periodically, in some people, the virus may reactivate and cause clinical infection.

Cold sores usually resolve on their own without treatment within 10–14 days without scarring. They are contagious and may be irritating or painful while they heal.

Presentation:

- A cold sore usually starts with a tingling, itching or burning feeling, and over the next 48 hours, small fluid-filled blisters appear anywhere on the face, but typically at the mucocutaneous junction of the lips.
- The blisters then burst and crust over forming scabs.
- The scab slowly disappears over a week or so, leaving no scar.

6.2 Possible complications^{33,36}

- · Lip adhesions which may limit mouth opening.
- Dehydration from poor oral intake due to painful swallowing.
- Eczema herpeticum in patients with atopic eczema, extensive eruptions of herpes simplex can appear on the face and neck.
- Eye disease ocular herpes simplex can result from autoinoculation; some symptoms include pain, discharge, ulceration and sensitivity to light.
- Cold sores in the beard (follicular).
- During first infection, self-inoculation to hands/digits or genital area.
- Erythema multiforme.
- Tracheobronchitis, pneumonia and oesophagitis.

Rarely: hepatitis, meningitis, encephalitis, myelitis and radiculopathy

6.3 When to refer to GP (or EHEW optometrist if eye involvement or Pharmacist Independent Prescriber if thought to be appropriate)³³⁻³⁸

- Babies <6 months old.
- Pregnant women, particularly near term with primary oral HSV.
- Uncertain diagnosis/atypical lesions.
- Frequent (e.g. ≥6 episodes/year), persistent and/or severe episodes of recurrent HSV.
- In immunocompromised individuals, including those having chemotherapy for cancer and with conditions such as HIV.
- Suspected infection of the eye or genital areas with herpes simplex (suspected genital herpes can also be referred to the local genito-urinary or sexual health clinic).
- Deterioration of condition (e.g. the lesion increases in size or spreads, new lesions develop after the initial outbreak, persistent fever, inability to eat or drink) or if no significant improvement is seen after 10 days.
- Red flags for oral cancer such as hoarseness, persistent ulceration, red or white patches in the mouth or a mass inside the oral mucosa.
- Unable to swallow due to pain and at risk of dehydration.
- Erythema multiforme.

6.4 Overview of treatment³³

There is no good quality evidence that topical antivirals (other than those specially formulated for ocular involvement and issued following a consultation with an optometrist/GP) are effective in reducing pain or healing time. They need to be initiated at the onset of symptoms before vesicles appear, and applied frequently for at least 4–5 days.

Topical analgesics or anaesthetics, mouthwash, and lip barrier preparations are similarly not routinely recommended. However, oral simple analgesia such as paracetamol or ibuprofen can be taken if needed.

6.5 Treatments³³

Advice only.

6.6 Advice for patients³³⁻³⁶

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

General advice

- Antiviral treatment is not usually needed for healthy people, and topical preparations, such as aciclovir (other than for the eye area, in which case an optometrist's advice should be sought) and other topical anaesthetic/barrier treatments are not proven to reduce pain or healing time.
- Self-care measures are recommended.
- Seek medical advice if symptoms worsen (for example the lesion spreads, new lesions develop, or there is persistent fever or difficulty taking fluids), or if there is no significant improvement after 5–7 days.

Avoiding transmission

- Try to avoid touching cold sores as they are very infectious until they have 'scabbed over' and are completely dry.
- Wash your hands with soap and water after the cold sore is touched.
- Cold sores are passed on through direct contact with an affected area, therefore avoid kissing or skin contact with other people especially babies under 6 weeks old and anyone who has a weakened immune system; the infection can cause more serious problems for these people.
- The virus cannot be caught from objects such as food, eating utensils or towels (unless warm pus is present on these items).
- Lip balms should not be shared when sores are present.
- Avoid performing oral sex until the cold sores have completely healed.
- Contact lenses could become contaminated with the cold sore virus and infect the eyes. To avoid this:
 - o do not use saliva to moisten them
 - o wash hands before handling contact lenses
 - wear glasses during the period of infectivity and seek advice from your local optometrist if you have any concerns regarding eye involvement

Self-care

- Eat cool, soft foods while the cold sore is tender, and drink plenty to avoid dehydration.
- Avoid known trigger factors, such as ultraviolet light (sunlight), stress, extremes of temperature, fatigue or trauma to the area.
- Sunscreen or sunblock lip balm (SPF 15 or above) may help prevent cold sores in people whose cold sores are triggered by the sun.

- Analgesics such as paracetamol or ibuprofen (if there are no contraindications) can be taken to treat pain and fever if needed.
- Children who are well do not need to be excluded from nursery or school.
- Seek medical advice if condition deteriorates (e.g. the lesion increases in size or spreads, new lesions develop after the initial outbreak, persistent fever, inability to eat or drink) or no significant improvement is seen after 10 days.

Topical treatment

- Although topical antiviral preparations, such as aciclovir, and other topical anaesthetic/barrier treatments are not proven to reduce pain or healing time, some people may find them helpful they can be purchased over-the-counter.
- Topical antiviral preparations should be used at the time of onset of prodromal symptoms before vesicles appear (if possible) and until lesions have healed.
- Creams, gels and other topical treatments should be dabbed on the cold sores rather than rubbed in to minimise damage to the blisters which may cause pain or viral spread.
- Hands should be washed thoroughly with soap and water before and after touching cold sores and after applying creams to them.

Signposting

- The Herpes Viruses Association leaflet "About cold sores" can be found at: https://herpes.org.uk/cold-sores/
- The British Association of Dermatologists leaflet on Herpes simplex can be found at: https://www.bad.org.uk/pils/herpes-simplex/

7.0 Conjunctivitis (bacterial)

7.1 About the ailment³⁹⁻⁴¹

Conjunctivitis is inflammation of the conjunctiva due to causes such as allergic or immunological reactions, infection (viral, bacterial or parasitic) and mechanical irritation. It is difficult to differentiate viral and bacterial conjunctivitis clinically. Symptoms include:

- acute onset red eye
- discomfort that may be described as 'grittiness', a 'foreign body' or 'burning' sensation
- watering and discharge that may cause transient blurring of vision

Bacterial conjunctivitis is also associated with:

- development of symptoms in one eye initially, then affecting the other eye 1-2 days later
- absent or mild pruritus
- purulent discharge that causes crusting of the lids, which may stick together on waking

Most cases of bacterial conjunctivitis resolve without treatment within 5–10 days.

7.2 Possible complications³⁹

Uncommonly, visual loss and structural eye damage occur (contact lens wearers and immunocompromised people are at greatest risk).

7.3 When to refer (refer to Pharmacist Independent Prescriber if thought to be appropriate)³⁹

Emergency eye casualty or A&E for same day assessment

- Acute glaucoma, keratitis/iritis, meningitis or corneal ulcer is suspected; symptoms include:
 - o marked redness in one eye(s) along with one or all of moderate-to-severe eye pain, headache and/or photophobia
 - o sudden loss of vision
- Pupils that look unusual
- Cloudy eye
- Neonates ≤30 days old
- Suspected gonococcal (e.g. copious, rapidly progressive discharge) or chlamydial conjunctivitis
- Possible herpes infection
- Suspected periorbital or orbital cellulitis

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- Conjunctivitis associated with a severe systemic condition such as rheumatoid arthritis or immunocompromise
- Corneal involvement (e.g. photophobia and watering) associated with soft contact lens use
- Recent eye surgery/eye procedure or those with severe pain or visual loss
- History of trauma (mechanical, chemical or ultraviolet) or possible foreign body

Accredited optometrist (which may require onward referral to ophthalmology)

Individuals with an eye problem, including those that need urgent attention, are entitled to a free Eye Health Examination at an accredited optometrist. A list of accredited practices is available at Eye Health Examination Wales.

Refer:

- flashing lights/wavy lines, headache or vomiting
- restricted or painful eye movements
- history of trauma or foreign body
- contact lens wearers individuals should also be advised not to wear contact lenses until they have been assessed and
 further advice obtained from their optometrist (if same-day assessment by the optometrist is not feasible, the individual
 should be referred to eye casualty and should be advised to take their contact lenses with them as special diagnostic tests
 may be required)
- · worsening symptoms despite treatment
- · recurrent or persistent conjunctivitis
- conjunctivitis thought to be due to molluscum contagiosum
- pregnant individuals
- breastfeeding individuals
- diagnostic uncertainty

7.4 Overview of treatment^{39,42}

Routine use of topical antibiotics (i.e. chloramphenicol 0.5% eye drops or chloramphenicol 1% eye ointment) is not recommended in uncomplicated cases, as most cases are self-limiting and self-care measures can usually ease symptoms, with resolution within 5–10 days without treatment. See <u>Section 7.6 Advice for patients</u> below.

Treat with topical antibiotics if symptoms are moderate-severe, or if circumstances require rapid resolution as follows:

• a delayed treatment strategy may be appropriate — advise the person to re-attend the pharmacy for review if symptoms have not improved within 3 days or sooner if symptoms worsen

- a delayed supply may be made if re-attendance is not practical (e.g. owing to access to transport, or the opening time of the pharmacy) for the individual to initiate topical antibiotics if symptoms have not improved within 3 days or sooner if symptoms worsen
- advise individuals if symptoms have not resolved or re-emerge following a treatment course, to make an appointment with an optometrist for follow-up (unless red flags present in which case they should be directed to eye casualty/A&E)

7.5 Treatments^{1,8,39,42-44}

Medication	Treat	ment options					
Generic name	Chloramphenicol 0.5% eye drops	Chloramphenicol 1% eye ointment					
Legal class	POM (s	supply via PGD)					
Pack size	10 mL	4 g					
Maximum number of packs	1 - if only one eye affected						
to supply per consultation	2 - if bo	th eyes affected					
Maximum number of	1 (where treatment is	supplied at first consultation)					
consultations per episode [†]	2 (where the first consultation is advice	and the second is return for delayed treatment)					
Maximum number of episodes per year		2					
Dosing instructions	(See PGD					
Key information to		See PGD					
consider prior to supply & counselling advice	See PGD	Ointment preferred to eye drops in individuals < 2 years of age.					

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

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7.6 Advice for patients^{39,45,46}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

- Bacterial conjunctivitis is usually self-limiting and resolves within 10 days without treatment.
- Symptoms may be eased with self-care measures such as:
 - o wiping eyelashes gently with cooled, boiled water to clean off crusts with a clean cotton wool pad (1 piece for each eye)
 - o cool compresses applied gently e.g. wet flannel around the eye area for a few minutes
- Good hygiene is essential; hands should be washed regularly with soap and water, particularly after touching infected secretions.
- Avoid rubbing the eyes.
- Pillows or towels should not be shared, and close contact with others should be avoided.
- Wash pillow cases and face cloths in detergent and hot water.
- There is no need to stay away from work or school if otherwise well, but nursery and primary schools may have an exclusion policy.

If you feel you are not improving, or are getting worse, despite implementation of advice and/or completion of a treatment course, please make an appointment to discuss with your optometrist in the first instance. If you are unable to obtain an appointment with your optometrist in a reasonable timescale, please discuss symptoms with your GP.

8.0 Constipation

8.1 About the ailment^{47,48}

Constipation is defecation that is unsatisfactory because of infrequent stools, difficulty passing stools or seemingly incomplete emptying of the bowel. Typically, bowel movements occurring less than three times a week may be regarded as constipation. Symptoms include a history of stools being dry, lumpy and hard, and may be large and infrequent (e.g. passed every 7–10 days) or small and relatively frequent (e.g. passed every 2–3 days). There may be daily bowel movements, but with associated symptoms such as excessive straining. Additional symptoms may include lower abdominal pain or discomfort, distension or bloating. In practice, constipation is often defined as passage of stools less frequently than the person's normal pattern.

In the elderly, constipation may present as non-specific symptoms such as confusion or functional decline, nausea/loss of appetite, overflow diarrhoea or urinary retention.

Many factors can cause constipation including:

- physical factors e.g. female sex, during pregnancy and older age
- dietary factors e.g. low fibre diet, low calorie intake and dehydration
- toileting habits e.g. lack of privacy, difficult access to a toilet or changes in normal routine/lifestyle
- lack of exercise or reduced mobility
- psychological factors e.g. anxiety, depression or an eating disorder
- medical conditions e.g. diabetes mellitus, hypothyroidism, irritable bowel syndrome, neurological conditions and structural abnormalities
- medicines e.g. analgesics (opioids/NSAIDs), verapamil (also, to a lesser extent, other calcium channel blockers), antidepressants, iron, diuretics, aluminium-containing antacids, calcium supplements, anticholinergics, sedating antihistamines, some antiepileptics and antipsychotics

8.2 Possible complications⁴⁷

Complications of chronic constipation include:

- faecal loading/impaction (this may lead to incontinence, megacolon, obstruction/perforation/ulceration, urinary infections, rectal bleeding and prolapse)
- progressive faecal retention, distention of the rectum, and loss of sensory and motor function
- haemorrhoids or anal fissure

8.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)^{47,49,50}

If there is suspected or known:

- blood or mucous in the stools
- rectal bleeding
- unexplained weight loss or tiredness
- severe abdominal pain
- abdominal or rectal mass/lump
- persistent bloating
- co-existing diarrhoea
- intestinal obstruction or perforation
- paralytic ileus
- · colonic atony or faecal impaction
- Crohn's disease or ulcerative colitis
- · toxic megacolon
- age under 18 years
- sudden altered bowel habit
- · manual measures being used to relieve constipation
- persistent symptoms (with altered diet and use of laxatives for at least 2 weeks)
- history of prolonged use of laxatives
- palliative care involvement (e.g. individual is on a palliative care pathway)
- tenesmus (continuously feeling the need to defecate without producing significant amounts of faeces, or after passing a normal amount of stool)
- associated fever, nausea or vomiting
- associated urinary symptoms, urinary incontinence or retention or dyspareunia
- existing clozapine treatment (urgent review)
- prescribed medicine suspected to be the cause (provide treatment but refer)
- diagnostic uncertainty

8.4 Overview of treatment⁴⁷

Relief of short-term constipation (less than 3 months):

If lifestyle changes (see Section 8.6 Advice for patients below) are not effective, offer oral laxatives using a stepped approach.

The aim of treatment is to increase stool frequency or ease of stool passage by increasing water content or accelerating bowel transit.

Treatment is selected depending on individual preference and consideration of severity, type and duration of symptoms:

- 1st line a bulk-forming laxative (i.e. ispaghula husk)
- if stools remain hard or difficult to pass, add or switch to an osmotic laxative (e.g. a macrogol) or stool softener (e.g. docusate sodium)
 - o if a macrogol is ineffective/not tolerated offer treatment with lactulose instead
- if stools are soft but difficult to pass, or if there is a sensation of inadequate emptying add a stimulant laxative (e.g. senna)

If the person has opioid-induced constipation:

- avoid bulk-forming laxatives
- use an osmotic laxative first-line (or docusate which softens stools) and a stimulant laxative

Doses should be adjusted according to symptoms and response, in line with licensed doses.

Advise that laxatives should be gradually reduced and stopped once the stool becomes soft and passes easily without straining, at least 3 times a week.

8.5 Treatments^{1,47,51-55}

			Laxative								
	Bulk-forming*	Osm (first-line option fo		Surface-wetting agent (softener) + mild stimulant	Stimulant						
	(for NON-opioid induced symptoms)	constipation +/- a surf	face wetting agent or	(option for <u>opioid induced</u> constipation plus an osmotic laxative)							
Medication	If lifestyle changes ineffective	If stools r	to pass	If stools are soft but difficult to pass or there is a sensation of inadequate emptying							
	1 st line	+/- bulk forming*	+/- bulk forming* if macrogol ineffective/not tolerated	+/- bulk forming* +/- osmotic							
		*offer only if NON-opioid induced constipation									
Generic name	Ispaghula husk 3.5 g effervescent granules s/f sachets	Macrogol 3350 with potassium chloride, sodium bicarbonate and sodium chloride oral powder s/f sachets	Lactulose 3.1–3.7 g /5 mL solution	Docusate 100 mg capsules	Senna 7.5 mg tablets						
Legal class	Р	P (but off label indication, so supply via PGD)	P (but on, so supply indice		Р						
Pack size	30	30	500 mL	30	20						
Maximum number of packs to supply per consultation	1	1	1	1	1						

per episode†	2 for opioid induced constipation 3 for non-opioid induced constipation									
Maximum number of episodes per year	2	2	2	2	2					
Dosing instructions	One sachet twice daily, preferably after food, with at least 150 mL liquid	See PGD	Between 15 mL and 45 mL daily initially (can be in divided doses). This dose can be adjusted to between 15 mL and 30 mL daily after treatment effect established.	See PGD	1–2 tablets at bedtime					
Key information to consider prior to supply	-Avoid in phenylketonuria, renal impairment, potassium-restricted diet -Do not offer if a patient is thought to have opioid-induced constipation -Use may be considered in pregnancy or breastfeeding	See PGD	 Not suitable for people with lactose intolerance and galactosaemia Can be offered if individual has opioid-induced constipation Use may be considered in pregnancy or breastfeeding 	Useful alternative for people who find it hard to increase fluid intake See PGD	-Avoid in intestinal obstruction, IBD abdominal pain, dehydration -Can be offered if individual has opioid-induced constipation -Not recommended during pregnancy or breastfeeding					

Counselling advice	Short-term side effects Ensure adequate fluid in -Usually effective within 2 to 3 days -Take at least 1 hour before going to bed (not immediately before) -Take other medicines 30–60 minutes before or after ispaghula. If individual is also taking iron supplements, these should be taken at least 1 hour before or 4 hours after ispaghula -Not suitable via CAS for individuals with diabetes or those taking thyroid hormones, as medical supervision is required. Consider an alternative as appropriate -Adverse effects can include flatulence and bloating		•	Usually effective within 12–72 hours See PGD	-Usually effective within 8 to 12 hours -Adverse effects include abdominal cramps, diarrhoea, nausea and vomiting -Urine may be discoloured (yellowish-brown); this is harmless
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[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

8.6 Advice for patients^{47,50}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Lifestyle measures

- Eat a healthy, balanced diet with regular meals.
- Your diet should contain whole grains, vegetables, fruits/ fruit juice high in sorbitol (e.g., apples, apricots, grapes, raisins, peaches, pears, plums, prunes, raspberries, and strawberries).
- Increase dietary fibre; aim for 30g of fibre a day (increase gradually, to minimise bloating and flatulence) beneficial effects of this may take several weeks to be observed.
- Avoid dehydration by drinking plenty of water (8–10 cups per day).
- Exercise regularly.
- Respond straight away to the sensation of needing to go to the toilet; try not to hurry, make sure you have enough time to empty your bowel.
- Try resting feet on a low stool while going to the toilet, so that the knees are above the hips; this can make passing stools easier.
- Avoid codeine-containing products as these make constipation worse; paracetamol is not known to cause constipation so can be taken for minor pain if no other exclusions apply.

Laxative treatment

- Ensure adequate fluid intake to avoid dehydration and obstruction.
- If an effect is not seen within 3 days of taking ispaghula, lactulose or macrogols, return to the pharmacy for further advice.
- If an effect is not seen within 12–72 hours of taking senna or docusate, seek medical advice.
- Laxatives should be gradually reduced and stopped once the stool becomes soft and passes easily without straining, at least 3 times a week.
- Ideally, laxatives should only be taken occasionally and for up to a week at a time.

If you feel you are not improving, or are getting worse, despite lifestyle changes and/or completion of a treatment course, please make an appointment to discuss with your GP.

9.0 Diarrhoea

9.1 About the ailment⁵⁶

Diarrhoea is the passage of three or more loose or liquid stools per day (or more frequently than is normal for the individual). Acute diarrhoea is usually defined as lasting less than 2 weeks, persistent diarrhoea lasting more than 2 weeks and chronic diarrhoea lasting more than 4 weeks.

Acute diarrhoea is usually caused by a bacterial or viral infection, but can also be caused by medication, a food allergy, acute appendicitis and anxiety.

Chronic diarrhoea may be caused by irritable bowel syndrome (IBS)/inflammatory bowel disease (IBD), diet, coeliac disease or bowel cancer.

9.2 Possible complications⁵⁶

- Dehydration increases the risk of life-threatening illness and death, particularly in young infants and children and older people.
- Chronic diarrhoea can negatively impact quality of life e.g. avoidance of travelling or going to new places where access to toilet facilities may be difficult.
- Underlying, undiagnosed health conditions e.g. Crohn's disease, ulcerative colitis and coeliac disease.

9.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)⁵⁶

- Pregnancy.
- Children under 4 weeks of age and individuals over 65 years of age.
- Fever.
- Existing medication that may contribute to symptoms and requires review (e.g. nephrotoxic medication causing an acute kidney injury (AKI) or chronic kidney disease (CKD).
- Diarrhoea that is likely to affect the absorption of other medicines.
- Severe abdominal pain and tenderness.
- Unexplained weight loss.
- Nocturnal or continuous symptoms (organic cause more likely).
- Vomiting and unable to retain oral fluids leading to moderate/severe dehydration (features include increased pulse rate, tiredness, dry mucous membranes, decreased urine output, marked hypotension and altered mental status).
- Diarrhoea persisting for more than 7 days (a blood test should be done).
- Systemic symptoms and/or the individual needs hospital admission for antibiotics.
- Persistent blood or pus in the stool.

- Suspicion of abdominal or rectal mass.
- Immunocompromised individuals or those at increased risk of poor outcome e.g. diabetes, rheumatoid disease.
- Treatment with antibiotics, a proton pump inhibitor (PPI) or hospital admission (specific testing for *Clostridioides difficile* is required) in the preceding 12 weeks.
- Recent foreign travel (tests for ova, cysts, and parasites should also be completed).
- Infectious diarrhoea suspected.
- Public health outbreak suspected e.g. diarrhoea in high-risk people (for example food handlers, healthcare workers, elderly residents in care homes), suspected food poisoning and outbreaks in a family or community.
- Diagnostic uncertainty e.g. if diarrhoea may be attributed to a sexually transmitted enteric infection (STEI) which may present more commonly in men who have sex with men.

9.4 Overview of treatment^{56,57}

Most infectious diarrhoea is viral and self-liming, with nearly half of episodes lasting less than a day. In many other instances a stool sample is required to rule out various pathology. Treatment with anti-diarrhoeal medication (e.g. loperamide) is therefore not routinely recommended, and so not included in this monograph.

Loperamide may be purchased for the symptomatic treatment of acute diarrhoea as per its product licence and the pharmacist's clinical judgement.

It is worth noting:

- viral diarrhoea generally lasts 2-3 days
- untreated bacterial diarrhoea generally lasts 3-7 days
- protozoal diarrhoea can be present for weeks to months without treatment

It is important to determine onset, duration, frequency, pattern and severity of symptoms then refer to GP and/or advise as per, "Advice for patients" below.

9.5 Advice for patients^{56,58}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Diet

- Drink plenty of fluid such as water or squash (small sips can help if nausea is present).
- Oral rehydration sachets can be taken if indicated.
- If there is no suspicion of another underlying cause, symptoms that are worsened by dairy products may indicate lactose intolerance avoid lactose-containing beverages/food to ascertain if symptoms improve.
- Eat when you feel able, you do not need to eat/avoid any specific foods unless thought to be contributing to symptoms.

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- Fruit juice/fizzy drinks can make diarrhoeal symptoms worse so these should be avoided.
- If indicated, reduce intake of caffeine or food additives such as sorbitol, which can cause diarrhoea.
- If indicated, reduce alcohol intake (can cause a toxic effect on intestinal epithelium or rapid gut transit).

Lifestyle

- Breastfeeding can continue if the mother has diarrhoea but feels well; if the baby is being sick, small feeds taken more frequently may help.
- Wash hands frequently with soap and water to avoid transmission.
- Anxiety can worsen diarrhoea you can ask your community pharmacist or GP for signposting to relevant wellbeing resources if you feel these may help.
- If symptoms are thought to be due to infectious pathogens:
 - o do not prepare food for other people, if possible
 - o do not share towels, flannels, cutlery or utensils
 - o clean toilet seats, flush handles, taps, surfaces and door handles every day
 - stay off school/childcare facilities/work until there has been no diarrhoea for at least 2 days, particularly if accompanied by vomiting
 - o do not use a swimming pool for 2 weeks after diarrhoea stops

Medication

If your symptoms may be due to medication, you should discuss this with your pharmacist, GP or other appropriate healthcare provider. Below are some examples of medication that can cause diarrhoea:

- OTC: magnesium-containing products, PPIs, non-steroidal anti-inflammatory drugs (NSAIDs) for example ibuprofen
- **Prescribed**: antibiotics (particularly macrolides), antihypertensives for example angiotensin-converting enzyme inhibitors (ACE inhibitors) such as lisinopril, magnesium-containing products, NSAIDs, PPI's, hypoglycaemics (e.g. metformin and gliptins), selective serotonin re-uptake inhibitors (SSRI's) for example citalopram, antineoplastic medication, xanthines (e.g. theophylline, aminophylline), antiarrhythmics and furosemide

Diarrhoea may affect the absorption of some medication, e.g. the oral contraceptive pill. If you have significant diarrhoea and take the contraceptive pill, use a back-up birth control method (such as condoms) alongside the pill, until you start your next period. Seek the advice of a GP or pharmacist if you are concerned about absorption of any medication you are taking while you have diarrhoea.

If you feel you are not improving, or are getting worse, despite lifestyle changes and/or completion of a treatment course, please make an appointment to discuss with your GP.

10.0 Dry eye disease

10.1 About the ailment^{59,60}

Dry eye disease is a condition affecting the ocular surface, characterised by loss of homeostasis of the tear film and a reduction in the quality or quantity of tears. It usually affects both eyes but symptoms may be asymmetrical.

Symptoms include:

- irritation of the eye including a "gritty" or burning sensation
- transient blurring of vision
- ocular fatigue e.g. discomfort when looking at bright lights or when wearing contact lenses
- itching, tearing and dryness

It can be exacerbated by factors including:

- age related lacrimal gland deficiency
- some medications e.g. anticholinergics, retinoids, long-term topical eye preparation use
- lid aperture disorders
- damage to the eye or eyelid e.g. from injury or surgery
- blepharitis
- underlying conditions e.g. rosacea, Sjogren's syndrome
- lifestyle e.g. contact lens use, prolonged reading/computer use
- environmental causes

Dry eye disease can usually be managed with self-care, lifestyle changes and, if required, pharmacological treatments.

When dry eye disease is suspected, refer the individual to an Eye Health Examination Wales (EHEW) accredited optometrist to have a free eye health examination in the first instance.

Referral is recommended because certain underlying medical conditions can be associated with dry eye disease.

10.2 Possible complications⁵⁹

- Impact on daily activities including driving, reading and sleep.
- Depression and anxiety (due to impact on quality of life).
- Corneal scarring, thinning, ulceration, infection or neovascularisation.
- · Poor outcomes of refractive, cataract and corneal surgery.

The following are rare complications and usually associated with an underlying condition:

- corneal perforation
- severe visual loss

10.3 When to refer (to Pharmacist Independent Prescriber if thought to be appropriate)⁵⁹

Emergency eye casualty or A&E for same day assessment

- Suspected acute glaucoma, keratitis/iritis, meningitis or corneal ulcer; symptoms include:
 - o marked redness in eye(s) along with one or all of moderate-to-severe eye pain, headache and/or photophobia
 - o sudden loss of vision
- Diplopia.
- Suspected gonococcal (copious, rapidly progressive discharge) or chlamydial conjunctivitis.
- Possible herpes infection.
- Suspected periorbital or orbital cellulitis.
- Corneal involvement (e.g. photophobia and watering) associated with soft contact lens use.
- Recent eye surgery/eye procedure or severe pain or visual loss.
- History of trauma (mechanical, chemical or ultraviolet) or possible foreign body.
- Serious underlying cause suspected e.g. Stevens-Johnson syndrome or ocular cicatricial pemphigoid.

Accredited optometrist (which may require onward referral to Ophthalmology)

Individuals with an eye problem, including those that need urgent attention, are entitled to a free Eye Health Examination at an accredited optometrist. A list of accredited practices is available at Eye Health Examination Wales.

Refer the following:

- flashing lights/wavy lines, headache or vomiting
- · restricted or painful eye movements
- contact lens wearers

- persistent or worsening symptoms despite 4-6 weeks management
- diagnosis requiring specialist assessment (apply a lower threshold for obtaining specialist advice for younger people)
- deterioration in vision
- abnormal lid function or anatomy
- diagnostic uncertainty
- individuals under 18 years of age

Appropriate referral should be made to the optometrist/GP (for onward referral to specialist) if there is:

- suspected undiagnosed, underlying systemic condition e.g. Sjogren's syndrome
- systemic involvement e.g. weight loss/fever

Contact lens wearers presenting with symptoms of dry eye syndrome should be encouraged to arrange an examination with their prescribing optometrist.

10.4 Overview of treatment⁵⁹

Symptomatic treatments such as tear replacement and ocular lubricant products selected in a prioritised manner, may be offered to people with dry eye syndrome, but these do not treat the cause. They should be used **in conjunction** with self-management/lifestyle measures as detailed in Section 10.6 Advice for patients.

Tear replacement and lubricant formulations include:

- **drops** (preferred for day time use)
- ointments/gels (use before bed as they often cause temporary blurring of vision)

Preservative-free formulations should be used if an individual:

- requires drops to be administered more than four times daily
- is intolerant of preservatives
- is using multiple topical preserved medicines

A treatment for dry eye syndrome should be tried for 4–6 weeks before assessing the benefit, then follow up with an optometrist should be arranged for further advice/management.

10.5 Treatments^{1,59}

Medication		1 st line	e options			Adjunctive treatment				
Generic name	Hypromellose 0.3% eye drops	Carbomer '980' (0.2% eye drops	Polyvinyl	alcohol 1.4%	Retinol palmitate with white soft paraffin, light liquid paraffin, liquid paraffin and wool fat				
Suggested brand	Non-proprietary	Xailin [®] gel (preservative free)	Viscotears® liquid gel	Sno Tears®	Refresh Ophthalmic® (preservative free)	Hylo-night				
Diana	Preservative free formulations are recommended if the individual is intolerant of preservatives in tear replacement options and/or they have moderate-to-severe dry eye disease requiring topical preparations > 4 times per day and/or is using multiple topical eye preparations (e.g. for other conditions)									
Legal class	Medical device	Medical device	Medical device	Medical device	Medical device	Medical device				
Pack size	10 mL	10 g	10 g	10 mL	30 x 0.4 mL	5 g				
Maximum number of packs to supply per consultation	1	1	1	1	4	1				
Maximum number of consultations per episode [†]	2	2	2	2	2	2				
Maximum number of episodes per year	1	1	1	1	1	1				

Dosing instructions	1–2 drops into the eye 3 times daily as needed	Apply 3–4 times daily or as needed	1 drop into affected eyes 3–4 times a day		s into the eye n needed	Use before sleep as required				
Key information to consider prior to supply	Suitable for use in pregnancy/lactation	Suitable for use in pregnancy/lactation	Not suitable in pregnancy or lactation (refer to SPC)	pre	e for use in gnancy/ ctation	Use in addition to other lubricants if severe morning dry eyes is an issue. Suitable for use in pregnancy/lactation.				
	Refer to the BNF	SPC for full details of	on interactions, ad	verse effec	ts, cautions a	nd contraindications.				
Counselling advice	Can be dosed up to hourly until symptoms improve, then decrease the frequency. If applying 2 drops in the same sitting, leave 5–10 minutes between drops.			the same s	2 drops in sitting, leave ites between	May cause temporary visual disturbance.				
	Wearing glasses	instead of contact lens	ses allows the eyes	to rest and	reduce further	irritation.				
Relative cost of treatment course (£-£££)*	£	£££	££	£	££	£££				
*	£= up	to £1.50 ££=between	een £1.50 and £2.50) £££=b	etween £2.50 a	and £3.50				
1										

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

10.6 Advice for patients^{59,60}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Making lifestyle and environmental changes can reduce the symptoms of dry eyes and, in mild cases, this may be sufficient to avoid the need for treatment.

Environmental changes

- Use a humidifier to moisten ambient air and avoid exposure to air conditioning or drafts.
- Avoid exposure to cigarette and other smoke.
- Reduce alcohol consumption.
- Keep computer screens below eye level and take regular screen breaks.

Lifestyle measures

- Warm compresses, lid hygiene and massage (especially useful if blepharitis is present).
- Limit the use of contact lenses if these cause irritation (changing lens type or solution may also help).
- Avoid wearing eye make-up.
- Reduce alcohol intake and/or engage with smoking cessation services if indicated.

Medication review

Review medications that may exacerbate dry eyes, such as:

- systemic retinoids
- topical ophthalmic medications e.g. glaucoma medications or those being used > 4 times daily and are not preservative-free
- oral contraceptives/hormone replacement therapy
- antihistamines
- beta-blockers
- anticholinergics
- psychotropics

If you feel you are not improving, or are getting worse, despite lifestyle changes and/or completion of a treatment course, please make an appointment to be reviewed with your optometrist in the first instance. If you are unable to make an appointment with your optometrist in a reasonable timescale, please discuss symptoms with your GP.

11.0 Dry skin (includes contact dermatitis and atopic eczema)

11.1 About the ailment⁶¹⁻⁶³

Dry skin (xeroderma) is the overarching term for skin that may crack, itch, peel or flake; it can also feel rough and tight (especially after bathing or showering). Dry skin is usually temporary but can be longer term, particularly in cases of contact dermatitis and atopic eczema. Dry skin may cause lighter skin to appear red, while darker skin can look dark brown, purple or grey. It may be harder to recognise dry skin in darker skin tones.

Atopic eczema (atopic dermatitis) is the most common form of eczema. It is more common in children where it is usually a chronic condition, but may improve significantly or clear completely as the child gets older. It can also occur for the first time in adults. The insides of elbows and backs of knees (joint creases), wrists and neck (flexural pattern), face and scalp are the most commonly affected areas. There may be small patches or widespread areas.

Contact dermatitis is a type of eczema triggered by contact with a particular substance e.g. make-up, medication, detergent and metals (e.g. nickel) causing the skin to become cracked and blistered. The reaction usually develops within a few hours or days of exposure to the irritant/allergen and improves when the aggravating substance is removed.

11.2 Possible complications^{64,65}

- Skin infections (fever, lymphadenopathy and malaise may be present):
 - o bacterial (may present as typical impetigo or as worsening eczema)
 - o fungal
 - o viral (e.g. herpes simplex)
- Psychological effects:
 - o behavioural problems and fearfulness in preschool children
 - o impaired performance
 - o teasing and bullying in school children
 - o distress and depression in teenagers and adults
- Other atopic and non-atopic comorbidities such as asthma, hay fever, food allergy and eosinophilic oesophagitis.

11.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)^{62,65}

- Signs of infection (e.g. weeping, crusting, pustules, fever, malaise, inflammation, erythema).
- Moderate-severe or severe symptoms.
- Persistent or recurrent symptoms.
- Symptoms not responding to treatment.
- Psychological effects.
- Symptoms affecting the face, head and neck, axillae or groin and genitalia.
- Babies less than 1 month old.
- Diagnostic uncertainty.

11.4 Overview of treatment^{64,66}

- The mainstay of treatment is liberal and frequent application of emollients for all mentioned indications, even once skin is clear.
- Regular use of emollients can help avoid steroid treatment.
- There is no evidence from controlled trials to support the use of one emollient over another, so offer an emollient according to the dryness of the skin, and individual preference/tolerance.
- Experience has shown that proprietary products are often preferred by patients to non-proprietary products; it may be false economy to choose a preparation solely on the basis of price.
- The evidence to support use of bath additive and shower products is limited and there is no consensus on their benefit.
- Creams, gels and lotions are generally better for inflamed areas of skin as the evaporation of water-based products may cool the skin.
- Ointments are more effective than creams and are recommended for non-inflamed areas, however, they are often poorly tolerated, affecting compliance.

Emollients containing active ingredients are not generally recommended because they increase the risk of skin reactions, but they may be useful in some people, for example:

- lauromacrogols are reputed to relieve itch
- urea may improve skin hydration by enhancing the moisture-retaining ability of emollients, thereby improving their efficacy
- antiseptics (for example benzalkonium chloride) have a limited role in protecting infection-prone skin

A topical steroid can be added and used for 7–14 days depending on response as per the treatment table below.

• Hydrocortisone 1% cream/ointment: for mild eczema where there are areas of dry skin and infrequent itching (with or without small areas of redness which may appear darker or purple in darker skin tones)

• Clobetasone 0.05% cream/ointment: for an acute flare of moderate eczema where there are areas of dry skin, frequent itching and redness/inflammation which may appear darker/purple in darker skin tones (with or without excoriation and localised skin thickening)

11.5 Treatments^{22,66}

Madiantian			En	nollient: No a	ctive ing	redient				Emolli	ent: Active	ingredient		Topical	steroid	
Medication				1 st	line						2 nd line		2 nd lii	ne altern	ative/adj	junct
Generic name	par 11	guid affin Isopropyl myristate 15%/ I% liquid paraffin 15% gel eam		White soft paraffin: liquid paraffin paraffin cream liquid paraffin paraffi		White soft paraffin: liquid paraffin (50:50) ointment	Urea- containing (e.g. Aquadrate® cream)		Antiseptic- containing (e.g. Dermol® 500 lotion)	Lauromacrogol- containing (e.g. Balneum [®] Plus cream)	Hydrocortisone 1% cream/ointment (for an acute flare of mild eczema) Clobetasc 0.05% cre (for an ac flare of moderat eczema		cream acute e of erate			
Legal class		dical vice	Medica	l device	Ме	edical dev	rice	Medical device	_	Medical P GSL		P/P (supp PG	ly via	P/P0 (supp PG	ly via	
Pack size	50g	500g	100g	500g	50g	500g	100g	500g	30g	100g	500g	100g	15g Via I	30g PGD	15g Via F	30g PGD
Max. no. of packs to supply per consultation	1	2	1	2	1	2	1	2	1	1	1	1	1	1	1	1
Maximum number of consultations per episode [†]	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Max. no. of episodes per year	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dosing instructions	Apply frequently and generously, even once skin is clear.							Refer to product labelling			See PGD (Refer to the BNF for quantities of topical corticosteroid required to treat a body area in finger-tip units (FTUs) for an adult/child).					

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Key information to consider prior to supply	•	First a sir First a) a b) a Whee For a emo Oint It ma If se char Patie flam Indiv	episode coungle consultation consultation choice of up maximum of the possible, emollients the consultation at the consultation constitution of the consultation of th	tion. - provide eith to to three differ f 2 x 500 g pot issue an emoli at come in pot o minimise con ved in hot wate ary to try a rar nollients is a k er reaction. cal oxygen wh terns. d not smoke o n pregnancy a	er: ent 50–1 s if the in ient with s, advise ntaminati er are sui age of em nown pro o require r go near nd breas	00 g pots adividual a a pump of that using on. Itable soa nollients boblem, issee an emoll	as a trial already ha dispenser g a clean p substitue efore the ue a crea ient shou ames whill do not ap	of therapy as a prefere to minimise spoon or spots. person setted movements and the setted and the setted are using the sply on chested.	or to esonce. the rispatula (eles on er addit ny para se crea	stablish k of bac rather the the bes ives or a affin-bas ms: ser immedia	preference (cterial contarnan fingers) t combination an ointment sed products ious fire hazately prior to	on should only be on the one of them. It or reduce the of the of the one of t	Can su If < Clob Can su If < Only quare	rocortison pply P fo and 10 years etasone pply P fo and 12 years issue if u antities o	PGD ne 1% cre r ages ≥1 over , supply F 0.05% cre r ages ≥1 over , supply F using adec f emollier t resolving	O years POM eam: 2 years POM quate nts.
Counselling advice	 Refer to the BNF/SPC for full details on interactions, adverse effects, cautions and cont If a skin reaction occurs, stop using the emollient and trial a different one. Flammable: see "Advice for Patients" section below. Do not share emollients with others as they can become contaminated with bacteria. 										If using an emollient, wait 15-30mins prior to application of the steroid cream. See PGD for further details					
Relative cost of treatment course (£-£££) *	£	£££	££	£££	£	£££	£	£££	£	£££	£££	£££	£-££	£-££	£££	£
*	· · ·			-	-	£= u	p to £2	££= £3	3–4	£££=	above £4			-		

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

11.6 Advice for patients^{64,66}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

- It is better to prevent dry skin becoming worse by using lots of emollient and applying it often, this will preserve the skin barrier.
- Application advice is as follows:
 - o frequency depends on the severity of the condition; for very dry skin, apply the emollient every 2–3 hours
 - use emollients during or after washing; if it is used during washing, the bath/shower will become slippery so take care not to fall
 - o dry the skin after washing and apply the emollient while the skin is still moist
 - o smooth emollients into the skin along the line of hair growth, rather than rubbing them in
- Topical corticosteroids (if used) should be applied about 15–30 minutes after the emollient.
- There is a fire risk associated with the build-up of emollient residue on clothing and bedding; do not smoke or go near naked flames.
- Washing clothing or fabric at a high temperature may reduce emollient build-up but may not totally remove it.
- Keep nails short and avoid scratching the area; gently smoothing a moisturiser on to skin can help alleviate itching.
- Avoid trigger factors if possible.
- Avoid soaps, detergents and bubble bath when washing as they can damage the skin.

If you feel you are not improving, or are getting worse, despite lifestyle changes and/or completion of a treatment course, please make an appointment to discuss with your GP.

12.0 Dyspepsia

12.1 About the ailment⁶⁷

Dyspepsia is a group of upper gastrointestinal symptoms which typically present for four or more weeks. These include:

- upper abdominal pain/discomfort
- heartburn
- acid reflux
- nausea +/- vomiting (if recurrent vomiting, see "when to refer to GP" section)

Symptoms can be caused by gastro-oesophageal reflux disease (GORD), peptic ulcer disease and functional dyspepsia. They can also be caused or exacerbated by various medicines, for example, nonsteroidal anti-inflammatory drugs (NSAIDs), bisphosphonates, corticosteroids, antidepressants and alpha-blockers. Existing medicines (both prescribed and OTC) should be reviewed to identify potential causes/contributory factors).

12.2 Possible complications⁶⁷

- Oesophageal ulceration.
- Bleeding which may precipitate anaemia.
- Stricture.
- Dental problems and bad breath.

12.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)^{67,68}

- Unintentional weight loss or loss of appetite.
- Anaemia suspected e.g. tiredness, fatigue, pale skin, feeling faint, palpitations.
- Altered bowel habit.
- Nausea +/- vomiting.
- Jaundice.
- Newly diagnosed diabetes with weight loss and the individual is ≥ 60 years of age.
- Difficulty swallowing that has not been investigated and diagnosed.
- Signs of bleeding e.g. blood in stools/urine/vomit.
- History of Barrett's oesophagus.
- Recurrent vomiting (+/- blood).
- Tender, swollen, abdomen or a mass reported on self-examination.
- Pain on exertion, pain in neck/left shoulder, history of myocardial infarction (MI) or previous gastric/peptic ulceration.
- Prescribed medication thought to be an exacerbating factor.

- New onset, persistent dyspepsia in someone > 55 years of age.
- Under 18 years of age.
- Symptoms not relieved following alginates +/- a 4-week trial of proton pump inhibitor (PPI) including if an individual has had *Helicobacter pylori* eradication therapy.
- Diagnostic uncertainty.

12.4 Overview of treatment⁶⁷

- Offer advice on lifestyle modification in the first instance.
- If lifestyle modifications (see "advice for patients" below) are not successful, an antacid (purchased OTC) or alginate and/or a full-dose PPI can be trialled for 4 weeks; long-term use is usually discouraged.
- To reduce the risk of rebound hypersecretion (although this is unlikely in a short treatment period of 4 weeks), the individual's PPI dose could be tapered towards the end of the treatment course; an alginate may be used if symptoms recur.
- If symptoms persist after this, the person should make an appointment to discuss with their GP.

12.5 Treatments 1,69-73

Medication	Options i	nclude: Alginates +/- Proto	on pump inhibitors (PPIs)	
Generic name	Potassium bicarbonate 20 mg/ml and sodium alginate 100 mg/ml oral suspension	Potassium bicarbonate 100 mg and sodium alginate 500 mg (Gaviscon® Advance chewable tablets)	Omeprazole 20 mg gastro-resistant capsules	Lansoprazole 30 mg gastro-resistant capsules
Legal class	Р	GSL	POM (supply via PGD)	POM (supply via PGD)
Pack size	500 mL	60 tablets	28 capsules	28 capsules
Maximum number of packs to supply per consultation	1	2	1	1

Maximum number of consultations per episode [†]	2	2	1	1		
Maximum number of episodes per year	2	2	2 2			
Dosing instructions	5–10 mL after meals and at bedtime	1–2 tablets after meals and at bedtime	See PO	GD		
Key information to consider prior to supply	Avoid in renal impairment or congestive cardiac failure and in those on low sodium/potassium diets. Care in hypercalcaemia, nephrocalcinosis and recurrent renal calculi. Suitable in pregnancy/breastfeeding. Refer to the BNF/SPC for full de	Contains aspartame Caution in highly restricted salt diet Suitable in pregnancy/breastfeeding	See Po			
Counselling advice	A time-interval of 2 hours should be administration of Gaviscon® and o		See Po	GD		
Relative cost of treatment course (£-£££) *	£££	£££	£	£		
*	£=	up to £1.50 ££= £1.50 to	£5 £££= over £5			

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

12.6 Advice for patients^{67,74}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Lifestyle

- Eat healthily and try to maintain a healthy weight. Losing weight is advisable if BMI > 25 kg/m² (and BMI not raised due to increased muscle mass).
- Avoid trigger foods e.g. coffee, chocolate, tomatoes, fatty/spicy foods.
- Eat smaller meals (evening meal should be 3–4 hours before going to bed, if possible).
- Avoid smoking (request smoking cessation advice if desired).
- · Keep alcohol consumption to recommended limits.
- Relaxation strategies can reduce stress/anxiety/depression. These include breathing exercises (https://www.nhs.uk/mental-health-issues/anxiety/) and well-being tips (https://www.nhs.uk/every-mind-matters/mental-health-issues/anxiety/)
- Raise your head and shoulders when in bed this can stop stomach acid coming up while you sleep.

Other

Some medicines may cause symptoms of dyspepsia, or make them worse. If you feel this relates to you, check the
information leaflets of any new or existing medicines and/or discuss with the pharmacist or your GP.

If you feel you are not improving, or are getting worse, despite 4 weeks' worth of lifestyle and/or medication changes, please make an appointment to discuss with your GP.

13.0 Haemorrhoids

13.1 About the ailment⁷⁵

Haemorrhoids (piles) are abnormally swollen vascular mucosal cushions in the anal canal. They may be external or internal. Bright red, painless rectal bleeding is the most common symptom, typically occurring with defecation and seen as streaks on the toilet paper, in the toilet bowl and/or outside of the stool (but not mixed with it).

Other symptoms include:

- anal itching or irritation
- feeling of rectal fullness, discomfort, or of incomplete evacuation on bowel movements
- soiling
- anal pain (with prolapsed, strangulated internal haemorrhoids, or thrombosed external haemorrhoids)

Contributing factors include:

- constipation (may be due to a low fibre diet)
- straining while trying to pass stools
- older age
- hereditary factors (possibly due to a congenital weakness of the venous walls)
- heavy lifting
- chronic cough
- conditions that cause raised intra-abdominal pressure (such as pregnancy, childbirth, and space-occupying lesions)

13.2 Possible complications⁷⁵

- Skin tags.
- Maceration of the perianal skin.
- Ischaemia.
- Ulceration.
- Thrombosis or gangrene.
- · Anal stenosis.
- Severe pain caused by incarceration of prolapsed haemorrhoidal tissue.
- Perianal sepsis (rare).
- Anaemia from bleeding (rare).

13.3 When to refer

A&E or call 999

- Extreme pain.
- A lot of blood/bleeding that does not stop.
- Suspected perianal sepsis.

GP (or Pharmacist Independent Prescriber if thought to be appropriate)⁷⁶

- Suspected infection e.g. fever/pus leaking from piles (urgent referral).
- Change in bowel habit.
- Moderate-severe abdominal pain.
- Night-time diarrhoea for several nights.
- Unexplained appetite or weight loss.
- Rectal bleeding or occult blood in faeces.
- Painful perianal lump or lesion.
- Severe pain in the affected area.
- Severe or recurrent symptoms.
- Non-response to treatment after 7 days or worsening symptoms.
- In pregnancy or breastfeeding.
- People under 18 years of age.
- Diagnostic uncertainty.

13.4 Overview of treatment⁷⁵

Management of haemorrhoids is aimed at keeping stools soft and easy to pass; symptomatic relief is as follows:

- 1) lifestyle advice (see "Advice for patients" section)
- 2) simple analgesia and/or topical haemorrhoidal preparations
- 3) laxative treatment if constipation is a contributing factor refer to CAS constipation monograph

Ideally, treatments should only be provided once a diagnosis has been made by a GP. However, on the first presentation of symptoms, treatment can be provided but refer the patient to their GP. No subsequent treatments should be provided without a GP diagnosis.

There is no evidence that one topical haemorrhoidal preparation is more effective than another. Preparation choice should be based on the risk of adverse effects and the person's symptoms and preference. Creams and ointments are generally used for external haemorrhoids and suppositories for internal haemorrhoids.

Consider the following:

- mild astringents or lubricants relieve local irritation and are less likely to cause skin sensitisation
- local anaesthetics help alleviate pain, burning, and itching, but can sensitise the anal skin; lidocaine is the preferred topical anaesthetic because others are more irritant
- topical corticosteroids may reduce inflammation and pain, but prolonged use may lead to skin atrophy, contact dermatitis and skin sensitisation; exclude local infection before use

13.5 Treatments^{22-24,75}

Paracetamol dosing and dose/dosing interval adjustments in ADULTS

Dose of	Dose of ORAL paracetamol in ADULT patients WITHOUT risk factors for paracetamol toxicity and ≥50 kg								
500 mg or 1 gram up to four times daily (minimum 4 hours between doses). Maximum 4 grams in 24 hours.									
	Dose of ORAL paracetamol in ADULT patients WITH risk factors* for paracetamol toxicity								
Body weight	Dose reduction up to a maximum of 15mg/kg body weight per dose								
33 kg to < 40 kg	500 mg up to four times a day (minimum 6 hours between doses). Maximum 2 grams in 24 hours.								
40 kg to < 50 kg	500 mg or 1 gram up to four times a day (minimum 6 hours between doses). Maximum 3 grams in 24 hours.								
≥ 50 kg	500 mg or 1 gram up to four times a day (minimum 4 hours between doses). Maximum 3 grams in 24 hours.								

*Risk factors for paracetamol toxicity:

- body weight less than 50kg
- chronic alcohol overconsumption
- severe liver disease
- increasing age and/or frailty where paracetamol might have been prescribed for significant periods and who have morbidities and polypharmacy, which can further increase their risk of inadvertent overdose and toxicity
- chronic malnutrition with nutritional deficiency and/or chronic debilitating illness and therefore likely to be glutathione deplete e.g. acute or chronic starvation (patients not eating for a few days), eating disorders (anorexia or bulimia), cystic fibrosis, AIDS, cachexia, alcoholism, cirrhosis
- chronic dehydration
- hepatic enzyme induction or evidence of ongoing liver injury e.g. long-term treatment with liver enzyme-inducing drugs such as carbamazepine, phenobarbital, phenytoin, primidone, rifampicin, rifabutin, efavirenz, nevirapine, St John's wort; regular consumption of ethanol in excess of recommended amounts, particularly if nutritionally compromised

Refer to local health board formulary to guide appropriate choice of haemorrhoid product

Medication	Simple analgesia		Topical haen	norrhoidal prep	arations					
Symptoms	Pain		Pain, b	urning and itchir	ng					
Generic name	Paracetamol 500 mg tablets	Lidocaine hydrochloride monohydrate 0.5%/ allantoin 0.5% ointment (Anodesyn® ointment)	Lidocaine hydrochloride monohydrate 10.25 mg/ allantoin 10.25 mg suppositories (Anodesyn® suppositories)	Lidocaine HCI. 0.7%, zinc oxide 6.6% cream (Germoloids® cream)	Lidocaine HCI 0.7%, zinc oxide 6.6% ointment (Germoloids® ointment)	Lidocaine HCI 13.2 mg /zinc oxide 283.5 mg suppositories (Germoloids® suppositories)				
Legal class	Р	GSL	GSL	GSL	GSL	GSL				
Pack size	32	25 g	12	25 g	25 ml	12				
Maximum number of packs to supply per consultation	2	1	1	1	1	1				
Maximum number of consultations per episode [†]			f previously undiagnos pids have been previou		y GP					
Maximum number of episodes per year		2								
Dosing instructions	As per pack and dosing table above	Apply as required	1 suppository twice daily after defecation	Apply at least tafter defecation in 24 hours with 3–4 hours between	1 suppository twice daily after defecation					

All Wales Common Ailments Service Formulary

Key information to consider prior to supply	As per pack Refer to the BNF/SPC	 General warnings for local anaesthetics/steroids: contraindicated if there is infection avoid prolonged use (maximum 7 days) As per pack C for full details on interactions, adverse effects, cautions and contraindications. 						
	Refer to the Biti for a fall details on interactions, adverse effects, cautions and t							
Counselling advice	As per pack	All formulations contain potential sensitisers. Advise the individual to discontinue treatment if symptoms get worse and to use for no longer than 7 days.						
Relative cost of treatment course (£-£££)*	£	££	££	££	££	££		
*	£= less than £1 £= £1 to £3.50 £££= over £3.50							

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

	Topical haemorrhoidal preparations								
Medication	Mild astringent/antiseptic/lubricant			Local corticosteroid/astringent		Local corticosteroid/anaesthetic			
Symptoms	Itchiness and irritation			Pain, irritation and inflammation					
Generic name	Bismuth oxide, balsam peru, zinc oxide cream (see product for specific amounts) (Anusol® cream)	Bismuth subgallate, bismuth oxide, balsam peru, zinc oxide (see product for specific amounts) (Anusol® ointment/suppositories)		Hydrocortisone, bismuth subgallate, bismuth oxide, balsam peru, benzyl benzoate, zinc oxide (see product for specific amounts) (Anusol HC® ointment/suppositories)		Cinchocaine 0.5% / prednisolone 0.19% ointment (Scheriproct® ointment)	Cinchocaine 1 mg / prednisolone hexanoate 1.3 mg suppositories (Scheriproct® suppositories)		
				POM	POM	POM	POM		
Legal class	GSL	GSL	GSL	(supply via PGD)	(supply via PGD)	(supply via PGD)	(supply via PGD)		
Pack size	23 g	25 g	12	30 g	12	30 g	12		
Maximum number of packs to supply per consultation	1	1	1	1	1	1	1		
Maximum number of consultations per episode [†]	1 if previously undiagnosed by GP 2 if haemorrhoids have been previously diagnosed by GP								
Maximum number of episodes per year	2								
Dosing instructions	Adults: 1 suppository or application of cream or ointment in morning, at night and after each bowel evacuation until condition controlled			See PGD		See PGD	See PGD		
Key information	As p		See PGD						
to consider prior to supply	Refer to the BNF/SPC for full details on interactions, adverse effects, cautions and contraindications.								

Counselling advice	All formulations contain potential sensitisers. Advise the person to discontinue treatment if symptoms get worse and to use for no longer than 7 days.						
Relative cost of treatment course (£-£££)*	££	££	££	££	£££	££	££
*	£= less than £1 ££= £1 to £3.50 £££= over £3.50						

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

13.6 Advice for patients^{75,77,78}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Lifestyle advice

- Keep stools soft, and don't strain on the toilet. The following may help:
 - o eat plenty of fibre (e.g. fruit and vegetables, cereals, and wholegrain bread); increasing dietary intake should be done gradually to minimise flatulence and bloating
 - try to maintain a healthy weight; losing weight is recommended if indicated (e.g. BMI > 25 kg/m² where increased BMI is not due to increased muscle mass)
 - o drink plenty of fluids, ideally water; avoid too much alcohol, caffeine and sugary drinks
 - o avoid painkillers that contain codeine as it can cause constipation
 - avoid non-steroidal anti-inflammatory drugs (NSAIDs) if there is rectal bleeding (in which case you would need to make an appointment to discuss with your GP)
 - o exercise regularly as per recommended guidelines
 - o do not delay going to the toilet
- Ensure good perianal hygiene (may wish to use damp wipes rather than dry paper; pat dry rather than rub around bottom).
- A warm bath or applying an ice pack wrapped in a towel to the area may help ease discomfort.
- External haemorrhoids may be gently pushed back inside.

Treatment advice

- Treatments only provide symptomatic relief and do not cure haemorrhoids.
- If there is extreme pain, a lot of blood, or bleeding that does not stop go to A&E or call 999.
- Seek advice from your GP or call 111 urgently if:
 - o you have haemorrhoids and your temperature is very high, or you feel hot and shivery and generally unwell

- o you have pus leaking from your bottom
- Seek advice from your GP if this is the first presentation, if symptoms are not relieved following one week of treatment or if you are concerned by any symptoms including:
 - o tummy pain that doesn't go away quickly
 - o diarrhoea (watery poo) at night for several nights
 - o unexplained weight loss
 - o bleeding or severe pain from the anus
 - o lasting change in toilet habit
 - o painful lump or other change around the anus
 - o recurrent haemorrhoids
 - o worsening symptoms

If you feel you are not improving, or are getting worse, despite 7 days' worth of lifestyle and/or medication changes, please make an appointment to discuss with your GP.

14.0 Head lice

14.1 About the ailment⁷⁹⁻⁸¹

Head lice are grey-brown parasitic insects, about the size of a sesame seed, that infest the hair and feed on blood from the scalp. They lay eggs which hatch after 7 to 10 days. After a further 7 to 10 days, the hatched louse begins to lay eggs. Empty yellow-white egg-shells (nits) may be seen attached to the hair.

Symptoms of head lice infestation include:

- itchy scalp
- feeling something moving through the hair

Itchy scalp or the presence of eggs alone is not sufficient to diagnose active infestation; a live louse must be seen.

Systematic combing using a fine-toothed head lice detection comb (not a nit comb) is the best way to confirm the presence of lice. Wet combing with conditioner is more accurate than dry combing as the louse moves less when wet.

All household members and other close contacts should use a lice detection comb, and those with live lice should be treated on the same day to avoid reinfection.

14.2 Possible complications⁷⁹⁻⁸¹

Complications are rare but include:

- rash on the back of the neck and behind the ears, caused by a hypersensitivity reaction to louse faeces
- · excoriation and secondary skin infection
- anxiety, distress, and stigma
- loss of sleep caused by itching and missed days of school

14.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)⁷⁹

- Scalp inflammation or signs of infection.
- Infestation persisting after treatment with all appropriate methods.
- Under 6 months of age.
- Diagnostic uncertainty.

14.4 Overview of treatment⁷⁹

Treatment options depend on person/carer preference, treatment history and contra-indications. Insecticides should only be supplied if the person is able to supply evidence of a live louse. Lice found using detection combing can be attached to sticky tape and brought to the consultation to aid diagnosis.

Treatment options include:

- wet combing with a fine-toothed head louse comb to remove the lice; the Bug Buster[®] kit is the only head lice removal (and detection) method that has been evaluated in randomised controlled trials, and it is available on the NHS clinical trials report cure rates of 38% and 52% at 14–15 days
- **physical insecticides** are effective in 70% of cases; dimeticone lotion (Hedrin®) is poorly effective against eggs, however Hedrin® Once formulations have good ovicidal activity
- **chemical insecticides** malathion 0.5% aqueous liquid (Derbac-M[®]) is the only one recommended in the UK, but resistance has been reported

Detection combing should be done after all treatments to confirm success. Treatment is successful if no living lice are found on the scalp. Nits may be present (they can remain attached for up to 8 months) but no further treatment is necessary. Detection combing should be carried out on the days shown below:

- after wet combing detection comb on day 17 to check for any live head lice
- after insecticide products with a single application detection comb on day 1 and day 10
- after using products with two applications detection comb one day after the last treatment

Treatment failure

Advise that close contacts should be assessed to identify possible sources of re-infestation and treated simultaneously.

- After insecticide treatment:
 - o check that the treatment course was complete with correct application time, technique, and volume of product
 - repeat the same treatment or switch to a different treatment, as appropriate (if malathion has been used, consider the possibility of resistance)
- After wet combing (live louse found on Day 17):
 - o confirm correct combing technique, sufficient duration of combing, and sufficient combing sessions
 - o advise the person to repeat wet combing or consider using an appropriate insecticide

All Wales Common Ailments Service Formulary

14.5 Treatments^{1,79}

Medication	Wet combing		Phy	sical insecticide	es		Chemical insecticide	
	1st line	1st	line		3rd line			
Generic name	Louse detection or nit comb	Dimeticone 4% lotion	Dimeticone 4% spray gel	Dimeticone 92% spray with comb	Isopropyl alcohol/ Benzyl alcohol Mousse 1.5%/1.5%	Isopropyl myristate and cyclomethicone solution	Malathion 0.5% aqueous liquid	
Suggested brand	Detection and nit comb: Bug Buster® Nit combs: Nitty Gritty NitFree comb® Nitcomb–S1®, Nitcomb– M2® or Portia®	Hedrin® Lotion	Hedrin [®] Once Spray Gel (contains Penetrol)	NYDA [®]	Vamousse [®]	Full Marks Solution [®]	Derbac M [®]	
Legal class	Medical device	Р	Medical device	Medical device	Medical device	Medical device	Р	
Pack size	1	150 mL	100 mL	50 mL	160 mL	100 mL/ 200 mL/ 300 mL	150 mL	
Maximum number of packs to supply per consultation	1		The names of al	dos I those who will be	es. e treated should ulder length hair;	to be treated simulibe documented. and 150mL should	•	
Maximum number of consultations per episode [†]	4 (if there is treatment failure for an infestation, the same treatment can be repeated, or different ones tried). Refer to GP if symptoms persist after 4 complete treatments per infestation.							
Maximum number of episodes per year		3						
Dosing instructions	As per pack	Contact time ar	nd application frequ	ıency (once or twi advi	•	en products – see	manufacturer's	

		Contact time: minimum 8 hours	Contact time: minimum 15 mins	Contact time: minimum 8 hours	Contact time: minimum 15 mins	Contact time: 10 mins	Contact time: 12 hours
Key information to consider prior to supply	Combs for egg/nit removal (nit combs) are not suitable for use as louse detection combs because their teeth are usually less than a width of a nit apart. The Bug Buster® kit has been evaluated when used alone in clinical trials. All other nit combs should be used as part of treatment alongside insecticides. Bug Buster® kit is reusable by a whole family.	Suitable in pregnancy and breastfeeding. Suitable from 6 months of age onwards. Suitable for people with eczema and asthma.	Should be suitable in pregnancy and breastfeeding but advise Hedrin® Lotion in the first instance. Suitable from 6 months of age onwards. Suitable for people with asthma.	Contraindicated in pregnancy and breastfeeding. Suitable from 2 years of age onwards.	Manufacturer advises if pregnant/ breastfeeding to discuss with GP prior to use. Suitable from 2 years of age onwards. Not recommended for people with asthma.	Caution in pregnancy and lactation. Suitable from 2 years of age.	Caution in pregnancy or breastfeeding. Suitable from 6 months onwards. Skin irritation, hypersensitivity reactions (such as anaphylaxis, angioedema, and swollen eyes), and chemical burns may occur. Resistance has been reported.
	Refer to the B					nd contraindicati	ons.
Counselling advice	See below – wet combing method	 Treat all affected household members on the same day. Treatment should be applied to all areas of the scalp and to all of the hairs, from their roots to their tips. The product should be left on for the time recommended by the manufacturer, then washed off. The instructions that come with the treatment should be read to ensure that it is used safely and to avoid the development of resistance. There is a risk of serious burns if the head lice product ignites. Individuals should not smoke around treated hair and should keep away from flames, cigarettes, and other sources of ignition, including in the morning after overnight application until hair is washed. 					

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

14.6 Advice for patients^{79,81}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

General advice

- There is no evidence that head lice prefer either clean or dirty hair.
- Children who are being treated for head lice can still attend school.
- There is no need to treat clothing or bedding.
- Essential oil-based treatments and herbal treatments are not recommended.
- It is not possible to prevent head lice infestation, but children of primary school age should be examined regularly at home (using a detection comb) to identify infestation early.
- The itch may last days to weeks after successful treatment.
- Detection combing should be done after treatment to check for any live head lice (louse eggs alone and/or itching do not indicate treatment failure).

Wet combing method

- Physically removes lice from the hair through systematic combing of wet hair.
- It takes about 10 minutes to complete the process on short hair, and 20–30 minutes for long, frizzy, or curly hair.
- Two combing procedures are recommended at each treatment session.

Method:

- wash the hair using ordinary shampoo and apply ample conditioner, before using a normal comb to untangle the hair
- when the hair is untangled, switch to the fine-toothed louse detection comb, making sure that the teeth of the comb slot into the hair at the roots touching the scalp
- draw the comb through to the ends of the hair, then check the comb for lice after each stroke (ensure there is good lighting; a magnifying glass may help)
- remove any lice by wiping or rinsing the comb
- work methodically through the hair, section by section, so that all of the hair is combed
- rinse out the conditioner and repeat the combing procedure on the wet hair

If you feel you are not improving, or are getting worse, despite 3 complete treatments per infestation, please make an appointment to discuss with your GP.

15.0 Infantile colic

15.1 About the ailment⁸²⁻⁸⁴

Infantile colic is recurrent and prolonged periods of infant crying, fussing or irritability that occur without obvious cause, and cannot be prevented or resolved by caregivers in an infant that otherwise appears to be healthy and thriving.

It is a self-limiting condition which usually starts within the first few weeks of life, improves by 3–4 months and resolves by 5–6 months of age.

Although the exact underlying cause is unknown and may reflect the normal distribution of infant crying, it may also be caused by:

- abnormal gastrointestinal motility
- inadequate amounts of lactobacilli/increased amounts of coliform bacteria in the intestinal microflora
- psychosocial factors e.g. family tension, parental anxiety, inadequate parent-infant interaction, overstimulation of the infant, misinterpretation of crying

Symptoms include:

- crying that often occurs in the late afternoon or evening
- drawing knees up to abdomen or arching back when crying
- fist clenching/going red in the face/passing flatus

15.2 Possible complications⁸²

- · Premature cessation of breastfeeding.
- Family tension and parent-infant attachment difficulties.
- Increased risk of infant maltreatment.
- Parental stress, fatigue, anxiety or depression.
- Loss of confidence in parenting skills.

15.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)82

- Infants who are not thriving and/or have symptoms that are not improving or are severe.
- Symptoms that haven't improved after 4 months (an alternative underlying cause for symptoms should be considered).
- Parents/guardian feel unable to cope with the infant's symptoms despite reassurance and advice.
- Diagnostic uncertainty.

15.4 Overview of treatment⁸²

There is insufficient, good quality evidence for the use of the following management strategies and so they are **NOT** recommended:

- simeticone (such as Infacol®) or lactase (Colief®)
- · probiotic or herbal supplements
- maternal diet modification if breastfeeding, or changing the infant milk formula preparation
- manipulative strategies such as spinal manipulation or cranial osteopathy

Therefore, for the management of infantile colic, advice, support and/or onward referral alone are recommended.

15.5 Advice for patients⁸²

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Strategies for management

- Holding, rocking or bathing the infant in a warm bath may help soothe them.
- "White noise" (e.g. vacuum cleaner/hairdryer).
- Ensure an optimal winding technique is used during and after feeds.
- Continue breastfeeding wherever possible.

Reassurance/support to parents/guardians

- Infantile colic is a common condition which should resolve by 6 months of age.
- "Cry-sis" is a support group for families with excessively crying or sleepless children, their website is available at www.cry-sis.org.uk and they also run a national telephone helpline (0845 122 8669).
- The "My baby is crying all the time" section on the Healthier Together website (https://www.hwehealthiertogether.nhs.uk/parentscarers) may be useful.
- Parental/guardian access to appropriate support and wellbeing (e.g. friends, family, health visitor) and rest whenever possible is very important.
- Meeting other parents/carers with children of similar age to share experiences may also be beneficial.

If you feel your baby is not improving, or is getting worse, despite trialling management strategies, please make an appointment to discuss with your GP.

16.0 Ingrowing toenail

16.1 About the ailment^{85,86}

Ingrowing (or ingrown) toenails are a common problem (especially in teenagers and young adults) in which the nail grows into the toe, creating a painful area, often on the big toe. The skin around the nail may be red, painful and swollen.

Symptoms of infection include increasing pain (maybe throbbing), swelling and redness near the ingrown nail, and yellow or green pus near the nail or under the nearby skin. In some cases, there may be a fever.

The foot should be examined to make the diagnosis.

16.2 Possible complications

Infection with possible systemic involvement.

16.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)^{85,86}

Further advice can be obtained from a podiatrist (depending on the location, this may need to be private) or GP.

Refer people who:

- are diabetic
- have a condition affecting the nerves or feeling in the feet (neuropathy)
- are immunocompromised
- · show signs of infection which may require antibiotics, incision and drainage
- have co-existing nail disease
- do not improve after 7 days of conservative treatment, or sooner if symptoms get worse
- if there is diagnostic uncertainty

16.4 Overview of treatment86

Provide advice only.

When the ingrowing part of the toenail is small, non-surgical (or conservative) interventions will relieve symptoms, help cure the problem and prevent recurrence. Antibiotics may be needed to treat infection.

16.5 Advice for patients⁸⁶

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

To resolve the condition

Painkillers, such as paracetamol, can be used to help relieve pain.

If the ingrowing part of the nail is small, it may be prevented from becoming worse, and sometimes cured, by the following:

- soak the toe in water for 10 minutes to soften the folds of skin around the affected nail
- using a cotton wool bud, push the skin fold over the ingrown nail down and away from the nail start at the root of the nail and move the cotton wool bud towards the end of the nail
- repeat each day for a few weeks, allowing the nail to grow
- as the end of the nail grows forward, push a tiny piece of cotton wool or dental floss under it to help the nail grow over the skin and not grow into it; change the cotton wool or dental floss each time the foot is soaked
- do not cut the nail but allow it to grow forward until it is clear of the end of the toe; then cut it straight across, not rounded off at the end

There are variations of this method – the principle is to keep the skin from growing over the edge of the nail.

To prevent recurrence

Possible causes of ingrowing toenails include incorrect trimming of the nail, tearing toenails off, wearing constricting footwear, sweaty feet, injury and natural shape of the nail – most of which can be prevented.

The following can help prevent recurrence:

- trim the nail straight across to help prevent pieces of nail digging into the surrounding skin; the corner of the nail should be visible above the skin
- do not cut nails too short or too low at the sides
- see a podiatrist to have the toenails trimmed if there is any loss of feeling in the feet or if the person cannot see them very well
- wear comfortable shoes, tights or cotton socks that provide space around the toes
- keep the feet clean and dry; let air get to the toes when possible

If you feel you are not improving, or are getting worse, despite following suggested advice, please make an appointment to discuss with your GP.

17.0 Mouth ulcers (simple aphthous)

17.1 About the ailment^{87,88}

Mouth ulcers are painful sores that can occur anywhere in the mouth. The most common type are aphthous ulcers. Aphthous ulcers are small, round or oval, usually pale yellow, with erythema around the area.

There are three different types, that can occur simultaneously:

- minor ulcers (85% cases) are less than 1cm in diameter, occur in groups of up to six and heal in 7–14 days without scarring
- major ulcers (10% cases) are usually 1-3cm in diameter, occur in groups of up to six and have a raised, irregular border; they usually take several weeks to heal and often leave a scar
- herpetiform ulcers (5% cases) present as multiple (5–100) pinhead-sized ulcers that may fuse to form much larger, irregular-shaped ulcers; they can be very painful and usually last 10–14 days

Many people have infrequent recurrences (once or twice a year), but some have almost continuous disease activity. Disease activity tends to decrease over time.

Aphthous-like ulcers look similar to aphthous ulcers but are associated with an underlying systemic disorder e.g. vitamin B12, iron or folate deficiency, some viruses and immunodeficiency, Behçet's syndrome and Crohn's disease.

Adverse reaction to medication may be a cause of the ulcers e.g. nicorandil, beta-blockers and NSAIDs.

17.2 Possible complications^{87,88}

Secondary bacterial infections are uncommon and associated with increased pain and redness. There may also be a fever.

17.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)⁸⁷⁻⁹¹

- Solitary ulcer present for three weeks or more, that has no obvious repeat trauma to the area requires URGENT dental (or medical) assessment to exclude oral cancer.
- Children < 12 years.
- Initial presentation in someone over 30 years old.
- Painless ulcers.
- Recurrent mouth ulcers (> 2 times a year).
- Suspected adverse drug reaction to a prescribed medicine.
- Atypical sites (e.g. gums or palate, or non-oral sites e.g. genitalia).
- Signs of systemic illness or fever.
- Ulcers in crops of up to 100 (herpetiform).

- Ulcers > 1 cm diameter (major aphthous).
- Immunosuppression suspected (e.g. on chemotherapy).
- Unable to eat or drink.
- Worsening pain/redness or bleeding.
- Severe ulceration unresponsive to topical treatments.
- Diagnostic uncertainty.

A list of dentists accepting NHS patients can be accessed via NHS 111 or NHS Direct Wales.

17.4 Overview of treatment^{87,92}

- Frequency, duration and severity of symptoms help to determine the management of aphthous ulcers.
- Mild, infrequent mouth ulcers that do not interfere with daily activities (e.g. eating) may not need to be treated.
- Simple therapies can be used alone or in combination with each other; these include:
 - o topical anaesthetic (e.g. containing lidocaine) see further details in "Advice for patients" below
 - o topical analgesic/anti-inflammatory agent e.g. benzydamine
 - o topical antimicrobial agent e.g. chlorhexidine gluconate mouthwash
- If simple therapies are insufficient, a topical corticosteroid e.g. hydrocortisone oromucosal tablets, may be offered

17.5 Treatments^{87,88,91,93-95}

Medication	1st-line treatment	options	2nd-line treatment option
Properties	Antiseptic/antimicrobial	Analgesic/anti- inflammatory	Analgesic/anti-inflammatory
Generic name	Chlorhexidine digluconate 0.2% w/v mouthwash	Benzydamine 0.15% oromucosal spray	Hydrocortisone 2.5 mg muco-adhesive buccal tablets
Legal class	GSL	Р	Р
Pack size	300 mL	30 mL	20
Maximum number of packs to supply per consultation	1	1	1
Maximum number of consultations per episode [†]	1	1	1

Maximum number of episodes per year	2	2	2				
Dosing instructions	Adults and children 12 years and over: Rinse mouth with 10 mL twice a day for one minute. Spit out after use. Continue use for 48 hours after the lesions have healed.	Adults and children 12 years and over: Use 4 to 8 sprays every 1.5 to 3 hours as needed.	Adults and children 12 years and over: Slowly dissolve 1 tablet up to 4 times daily by keeping the tablet in close proximity to the ulcer (the individual can use their tongue to help with this). Use for no more than 5 days at a time.				
Key information to consider prior to supply	Ensure individual can safely gargle. Can be used in pregnancy and breastfeeding.	Not advisable in patients with hypersensitivity to acetylsalicylic acid or other NSAIDs. Caution in history of bronchial asthma. Not suitable in pregnancy or breastfeeding.	Only use in children 12 years and over. Not for use in people with untreated oral infection. Not suitable in pregnancy or breastfeeding. Refer to the BNF/SPC for further details on interactions, cautions and contraindications.				
	Refer to the BNF/SPC for full details on interactions, adverse effects, cautions and contraindications.						
Counselling advice	May discolour teeth and tongue. To help combat this, avoid drinks that contain tannin (e.g., tea, coffee, or red wine). Leave at least a 30 to 60-minute interval between using the mouthwash and brushing teeth (or having something to eat/drink) as some ingredients in toothpaste can inactivate chlorhexidine.	May cause numbness and stinging that lasts a few minutes.	May prevent an ulcer from fully erupting if used early. The tablets should not be sucked. If the ulcers have not healed after 5 days of treatment (completion of one pack), or if they recur quickly after healing, a doctor should be consulted.				

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

17.6 Advice for patients^{87-89,91,96}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Mouth ulcers need time to heal, but will usually go away by themselves. Seek medical advice if the ulcer becomes very large and sore, or doesn't resolve within 3 weeks.

Lifestyle changes

To reduce recurrence, avoid precipitating factors such as:

- foods containing chocolate, coffee, peanuts and gluten-containing products
- toothpaste containing sodium lauryl sulfate
- trauma e.g. from sharp, broken teeth or orthodontic appliances/dentures

Self-care to reduce ulcer pain once developed

- Use a soft toothbrush when brushing teeth.
- Avoid eating crunchy foods; try to stick to those that are softer and easier to chew.
- · Avoid spicy, salty, acidic foods or drinks.
- Drink cool drinks through a straw.

Other self-help options

Some people find that salt (saline) mouthwashes help soothe ulcer pain. The following method can be tried:

- 1) dissolve half a teaspoon of salt in a glassful of warm water
- 2) take some of the dissolved solution in your mouth and swill around then spit out; DO NOT SWALLOW

These steps can be repeated as often as needed.

A topical anaesthetic (e.g. containing lidocaine) may provide fast, effective relief from the pain of mouth ulcers, including those caused by denture irritation.

If you feel you are not improving, or are getting worse, despite lifestyle modifications and/or 7 days of treatment; please make an appointment to discuss with your GP.

18.0 Nappy rash

18.1 About the ailment^{97,98}

Nappy rash is inflammation of the skin in the area of the body covered by a nappy and is primarily an irritant contact dermatitis. Irritants such as urine, faeces, and faecal enzymes lead to skin breakdown, typically of the perineum and convex surfaces of the buttocks, with sparing of the skin folds.

Features include:

- red patches on the baby's bottom, possibly including the whole area
- skin that looks sore and is hot to the touch
- spots, pimples or blisters

Although all babies can get nappy rash, it doesn't usually develop in newborns. Most babies with mild nappy rash don't feel sore, but if the rash is severe the baby may feel uncomfortable and be distressed.

18.2 Possible complications⁹⁹

Candida (fungal) infection can occur as it thrives on the inflamed skin. This can appear as sharply marginated redness involving the skin creases and can cause an inflamed rash to look brighter or darker red. Antifungal cream can be used to treat it.

18.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)^{99,100} Refer if:

- the rash presents in the following ways:
 - o severe redness/soreness with or without exudate (possible bacterial infection)
 - o with punched out ulcers or erosions with elevated borders (possible erosive diaper dermatitis)
 - o with smooth, red, moist papules or nodules in the nappy area, around the perianal skin, and involving genital, suprapubic, and buttock skin (suspected perianal pseudoverrucous)
 - o with asymptomatic, cherry-red, 0.5-4 cm plagues and nodules (suspected granuloma gluteal infantum rare)
- the baby appears systemically unwell
- there is diagnostic uncertainty

Refer babies where there is suspicion of immunosuppression, but supply appropriate treatment.

18.4 Overview of treatment¹⁰⁰

• Asymptomatic cases/mild erythema – thinly apply a barrier preparation at each nappy change to protect the skin, such as a combination preparation of zinc and castor oil ointment.

All Wales Common Ailments Service Formulary

- Inflamed rash that is causing discomfort babies over 1 month old could be treated with hydrocortisone 1% cream (via a PGD) applied once daily, in addition to the barrier preparation until symptoms settle; or for a maximum of 7 days (whichever comes first).
- If the rash persists and *Candida* infection is suspected, a clotrimazole preparation could be issued but advise avoiding the barrier preparation until the infection has settled.

18.5 Treatments^{8,100,101}

Medication	_	barrier ration	1 st line alternative: barrier preparation	2 nd line: topical steroid	3 rd line: topical antifungal
Generic name	Zinc and castor oil ointment (Ovelle)	Zinc and castor oil cream	Titanium dioxide 200 mg/1 g Titanium peroxide 50 mg/1 g Titanium salicylate 30 mg/1 g ointment (Metanium [®] nappy rash ointment)	Hydrocortisone 1% cream	Clotrimazole 1% cream
				POM	Р
Legal class	GSL	GSL	GSL	GSL (as individual treated is < 10 years old)	
Pack size	100 g	225 g	30 g	15 g	20 g
Maximum number of packs to supply per consultation	1	1	1	1	1
Maximum number of consultations per episode [†]	2	2 2 2		1	1
Maximum number of episodes per year	2 2 2		2	2	
Dosing instructions	Apply thinly at each nappy change			Apply thinly once daily until symptoms settle or for a maximum of seven days	Apply 2–3 times a day and rub in gently until the area is healed

Key information to consider prior to supply	Contains arachis oil and beeswax Refer to the BNF/SPC f		or full details on interactions, a	For babies > 1 month old In addition to: barrier preparation if rash appears inflamed/is causing discomfort dverse effects, cautions and	Instead of: barrier/steroid preparation if rash persists and Candida suspected d contraindications.				
Counselling advice	Caution: flammable		Excessive topical application could lead to symptoms of salicylate poisoning	If using a barrier/steroid combination, apply topical hydrocortisone first and wait a few minutes before applying the barrier preparation.	A strip of cream (about 0.5cm long) is enough to treat an area about the size of an adult hand				
	Do not smoke or go near naked flames when using these products – risk of severe burns and serious fire hazard								
Relative cost of treatment course (£-£££)*	£££ £		££	£	£				
*		£ = up to £2 ££ = £2 to £4 £££ = over £4							

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

18.6 Advice for patients⁹⁸

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Nappy rash usually clears up after about 3 days and can be prevented, if you follow this advice:

- make sure the baby's nappy fits properly; if it is too tight then it can irritate the skin and if it is too loose, then the nappy will not be able to soak up urine properly
- change wet or dirty nappies as soon as possible after wetting or soiling
- clean the whole nappy area gently but thoroughly, wiping from front to back; use water or fragrance-free and alcohol-free baby wipes
- bathe the baby daily but avoid bathing them more than twice a day as this may dry out their skin
- do not use soap, bubble bath, or lotions
- dry the baby gently after washing them avoid vigorous rubbing
- lie the baby on a towel and leave their nappy off for as long and as often as you can to let fresh air get to their skin

All Wales Common Ailments Service Formulary

• do not use talcum powder as it contains ingredients that could irritate the baby's skin

If you feel your baby is not improving, or is getting worse, despite lifestyle and/or advised treatment, please make an appointment to discuss with your GP.

19.0 Oral candidiasis

19.1 About the ailment^{102,103}

Oral candidiasis (also known as oral thrush) is an infection caused by *Candida*. It can be asymptomatic although may cause discomfort if severe. Signs and symptoms include white spots or plaques in the mouth that can be wiped off, leaving behind red patches, generalised erythema and a change in taste. Babies may drool or have difficulty feeding. It is not usually contagious.

Risk factors for oral thrush (making it more common in these groups):

- babies and the elderly
- people who wear dentures
- immunocompromised people or people with poor health
- people who have had recent antibiotic or steroid treatment
- diabetes mellitus
- excessive mouthwash use
- iron, folate or vitamin B12 deficiency
- smokers

Oral thrush may be the first presentation of an undiagnosed condition.

19.2 Possible complications¹⁰²

- · Chronic pain or discomfort.
- Impaired speech and/or chewing.
- Immunocompromised individuals may develop oesophageal candidiasis, causing painful or difficult swallowing; this can lead to systemic candidiasis.

19.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)^{102,104}

- Babies under 4 weeks old.
- Symptoms not resolved after 7 days of treatment.
- Difficulty or pain on swallowing.
- Pregnancy or breastfeeding provide treatment but always refer.
- Extensive, severe infection or systemically unwell.
- No obvious risk factor (see: 'About the ailment' section).
- Possible severe immunocompromise (e.g. due to chemotherapy or HIV).

All Wales Common Ailments Service Formulary

- Single red or red and white plaque that cannot be rubbed off (erythroplakia/erythroleukoplakia) may be pre-malignant refer urgently to a dentist.
- Treatment may be provided to individuals taking DMARDs or steroids but always refer.
- Diabetes provide treatment but always refer.
- Diagnostic uncertainty.

19.4 Overview of treatment¹⁰²

Antifungal treatment

19.5 Treatments¹⁰²

Medication	1 st line	2 nd line
Generic name	Miconazole 20 mg/g oromucosal gel sugar free	Nystatin oral suspension 100,000 units/ml
Legal class	POM (supply via PGD)	POM (supply via PGD)
Pack size	80 g	30 ml
Maximum number of packs to supply per consultation	2	2
Maximum number of consultations per episode [†]	1	1
Maximum number of episodes per year	2 (episodes must be 6 months apart)	2 (episodes must be 6 months apart)
Dosing instructions	See PGD	See PGD
Key information to consider prior to supply	See PGD	See PGD
Counselling advice	See PGD	See PGD

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

19.6 Advice for patients^{102,103}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Treatment

- Try and ensure treatment is kept in the mouth for as long as possible avoid swallowing immediately.
- · Administer after meals.
- Seek medical advice if symptoms persist after 7 days.

Prevention

- Maintain good dental and denture hygiene dental prostheses and orthodontic appliances should be fitted and secured properly during the day (e.g. denture fixative agents), and removed at night/for at least 6 hours daily.
- Clean and disinfect dentures daily.
- Stop smoking provide/signpost to smoking cessation advice.
- Ensure good inhaler technique for corticosteroids risk of oral candidiasis can be reduced by using a spacer device with a corticosteroid inhaler and rinsing the mouth with water (or cleaning the teeth) after using the inhaler.
- Sterilise babies' dummies and bottles.

If you feel you are not improving, or are getting worse, despite lifestyle modifications and/or treatment for 2 weeks, please make an appointment to discuss with your GP.

20.0 Ringworm (tinea corporis), tinea cruris and intertrigo

20.1 About the ailment¹⁰⁵

Fungal infections of the body (*tinea corporis*) and groin (*tinea cruris*) are superficial skin infections predominantly caused by dermatophytes.

The infection is usually transmitted in 4 main ways:

- human to human direct contact with an infected person
- animal to human direct contact with an infected animal (e.g. dog, cat, cattle)
- object to human indirect contact with fomites (e.g. objects or materials which carry infection such as clothing, towels or bed linen)
- soil contact geophilic infections from fungi or moulds in the soil (rare)

Intertrigo describes the involvement of flexural areas of the skin where folds are moist. It is intensified by friction and heat, typically causing redness and inflammation which appears as a red rash in lighter skin tones (may appear darker/skin coloured/purple in darker skin tones).

The table below shows features of the infection depending on which area of the body is affected

Body (ringworm)	Groin (tinea cruris)
Single or multiple ring-shaped patches of varying sizes (usually 1–5 cm) which enlarge outwards.	 Affects the inguinal folds and proximal medial thighs (the perianal skin, buttocks and above the waistline may also be affected). In men, the penis and scrotum are often spared.
 Red or pink (may appear different on darker skin tones). 	 Red to red-brown (may appear different on darker skin tones).
 Flat or raised lesions with an active scaly, advancing edge and with a clear central area. 	 Flat or slightly raised plaques with active borders (there may be pustules or vesicles within lesions) and without a clear central area. The typical scaly edge may be lost in moist flexures.
Usually asymmetrical.	Uniform scale.

20.2 Possible complications¹⁰⁵

- Secondary bacterial infection (immunocompromised people are at increased risk).
- Fungal infection of the hand (typically the dominant hand) may develop as a result of scratching the affected area.
- Extensive spread of fungal infection and change in morphology of lesions due to inappropriate use of topical corticosteroids leading to difficulty in diagnosis.

20.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)¹⁰⁵

- Severe or extensive disease (including affecting the face/scalp), particularly immunocompromised individuals.
- Individuals with diabetes if, in the opinion of the pharmacist:
 - o there are concerns regarding diabetic control of the individual
 - o the individual is at increased risk of detrimental symptoms associated with poorly controlled diabetes (symptoms can include thirst, blurred vision, fatigue and increased frequency of urination)
 - o the individual is unsure how to manage their diabetes
- Reinfection or recurrence of fungal infection that is frequent and/or not mild.
- Symptoms that have not improved after using advised treatment.
- · Secondary bacterial infection.
- Babies under 1 month of age.
- Diagnostic uncertainty.

20.4 Overview of treatment¹⁰⁵

Treatment with a topical antifungal cream can be advised if there is mild, non-extensive disease in children and adults. It may be repeated in the future if there is a good response and any recurrent episodes remain mild and non-extensive.

Options include:

- terbinafine cream OR
- an imidazole e.g. clotrimazole cream or miconazole cream
- in addition, a mildly potent topical corticosteroid such as hydrocortisone 1% cream can be used for 7 days if there is associated marked inflammation; it should not be used alone

20.5 Treatments¹⁰⁵

Medication		1 ^s	Only supply in combination with a topical antifungal if marked inflammation associated with fungal skin infection or intertrigo present	
Generic name	Terbinafine 1% cream	Clotrimazole 1% cream	Miconazole 2% cream (Daktarin® 2% cream)	Hydrocortisone 1% cream
Legal class	POM (see PGD)	P (can supply via PGD)	Р	POM (supply via PGD)
Pack size	30 g	20 g	30 g	15 g
Maximum number of packs to supply per consultation	1	4 (depending on area affected and individual's body habitus)	1	1
Maximum number of consultations per episode [†]	1	1	1	1
Maximum number of episodes per annum	2	2	2	2
Dosing instructions	Apply thinly to the affected area once or twice a day for 1–2 weeks	Apply to the affected area 2–3 times a day and continue for at least 4 weeks.	Apply to the affected area twice daily. Continue for 10 days after all skin lesions are healed to prevent relapse.	Apply thinly once or twice daily for 7 days (see below for further details).

Key information to consider prior to supply	See PGD	Interaction with tacrolimus (increases plasma tacrolimus levels). Avoid concurrent use. Not to be used during pregnancy.	Licensed for use in children (age range not specified by manufacturer). Caution should be exercised with oral anticoagulants. Anticoagulant effect should be monitored during treatment. Caution during pregnancy and breastfeeding.	See PGD Not to be used on the face. Not to be supplied in pregnancy or breastfeeding.				
	Refer to the	BINT/SPC IOI IUII GE	tans on interactions, adverse effects, c					
Counselling advice	A strip of cream approx. 0.5 cm long is enough to treat an area about the size of a hand.		Avoid contact with eyes and mucous membranes.	See PGD If symptoms have resolved after 7 days, stop the corticosteroid. If there has been a significant improvement in symptoms, continue for a further 7 days. If there is no response, discontinue and for GP review. If applying another preparation alongside hydrocortisone cream, apply it first then wait 15-30minutes prior to application of the hydrocortisone cream				
	Γ	Do not smoke or go ne	ear naked flames while using these cream	s: serious fire hazard.				
Relative cost of treatment course (£–£££) *	££	£–£££	£	£				
*		£ = up to £2 ££ = £2 to £5 £££ = over £5						

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

20.6 Advice for patients^{105,106}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Lifestyle

- Avoid hot, humid climates or working in high temperature environments.
- Avoid wearing tight-fitting clothing; wear loose-fitting clothes made of cotton or a material designed to keep moisture away from the skin.
- Maintain good hygiene by washing affected skin areas daily, then drying thoroughly, especially in the skin folds.
- Avoid scratching affected skin, as this may spread infection.
- Do not share towels, and wash them frequently, to reduce the risk of transmission.
- Wash clothes and bed linen frequently to eradicate fungal spores.
- Eat healthily and try to maintain a healthy weight. Losing weight is advisable if BMI > 25 kg/m² (and BMI not raised due to increased muscle mass).
- Take your pet to the vet if you think they might have ringworm (for example, if you notice patches of missing fur)

Other

• Hyperhidrosis can worsen symptoms – seek advice from your GP for treatment options

If you feel you are not improving, or are getting worse, despite lifestyle and/or medication changes within the timeframes discussed with the pharmacist, please make an appointment with your GP.

21.0 Scabies

21.1 About the ailment¹⁰⁷⁻¹⁰⁹

Scabies is a very itchy, highly contagious skin infestation caused by a mite that is up to 0.5mm long and burrows into the skin where it lays eggs. These burrows can often be seen in the interdigital web spaces. Scabies is spread by direct skin-to-skin contact, and so is more prevalent in overcrowded living conditions.

Symptoms include intense itching, particularly at night, along with a raised blotchy rash that can develop into spots. The rash usually spreads across the whole body other than the head (where it may develop in young children, elderly people and immunocompromised individuals).

Symptoms usually take 2–6 weeks to develop after becoming infected.

21.2 Possible complications¹¹⁰

Scabies infestation may lead to:

- secondary bacterial infection due to entry of bacteria into the compromised skin barrier; this may result in impetigo, folliculitis, furunculosis, ecthyma, or abscess
- secondary eczematisation may be due to scratching and/or the irritant effects of topical medication
- nodular scabies pruritic nodules of the axillae, groin, and male genitalia that can persist for weeks or months following treatment due to a prolonged immune response to mite antigens

21.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)¹¹¹

- Infants under 2 years old
- Severe rash, broken skin or secondary bacterial infection
- Individuals who appear systemically unwell
- Suspected crusted scabies
- Treatment failure (after 2 courses of treatment for scabies have failed in one episode) or if itching persists for longer than 2–4 weeks after the final treatment application
- Diagnostic uncertainty

21.4 Overview of treatment^{111,112}

Scabies will not go away untreated and so the primary management involves the application of scabicides such as permethrin 5% cream or malathion 0.5% liquid (detail below).

21.5 Treatments^{1,111,113}

Medication	1 st line	2 nd line (If permethrin ineffective/unsuitable)	If significant n	f significant night-time itch		If post-scabietic itch is present less than 4 weeks after a treatment course is completed	
		Malathion 0.5% liquid	Chlorphe	1	Crotamiton 10%		
Generic name	Permethrin 5% w/w cream	(Derbac-M [®] 0.5% liquid)	4 mg tablets	2 mg/5 mL solution		cream (Eurax®)	
Legal class	Р	P	Р	Р		Р	
Pack size	30 g	150 mL	28 tablets	150 mL	30 g	100 g	
Maximum number of packs to supply per consultation	4 (but see information in comments section below)	4 (but see information in comments section below)	1	1	1	1	
Maximum number of consultations per episode [†]	2				1		
Maximum number of episodes per year	2	2	2	2	2		
Dosing instructions	Due to the great variability in body area and skin types, precise dosage recommendations are not possible but suggested doses are: Adults and children over 12 years of age: Usually, up to one tube (30 g) once weekly for 2 doses. Some adults may need to use an additional tube for full body coverage but should not use more than two tubes (60 g in total) at each application. Children aged 6–12 years: up to half a tube (15 g) once weekly for 2 doses. Children aged 2–5 years: up to a quarter of a tube (7.5 g) once weekly for 2 doses.	Adults and children over 2 years old: Apply once weekly for 2 doses by applying preparation over whole body, and wash off after 24 hours. If hands are washed with soap within 24 hours, they should be retreated.	Adults and children over 12 years of age: Two 5 mL doses every 4 to 6 hours up to a maximum of 6 doses in 24 hours as needed. Children aged 6 to 12 years: One 5 mL dose every 4 to 6 hours up to a maximum of 6 doses in 24 hours as needed. Children aged 2 to 5 years: One 2.5mL dose every 4 to 6 hours up to a maximum of 6 doses in 24 hours as required.		years of over: Ap affected 2-3 time	age and ply to the area(s) s daily as or a total	

Counselling advice	-Adults and children over 2 years old: Apply permethrin 5% cream over whole body but NOT the head and face. Wash off after 8–12 hours. If hands are washed with soap within 8 hours of application, they should be treated again with creamElderly or immunocompromised: Apply permethrin 5% cream over the whole body INCLUDING the neck, face, ears and scalpIf symptoms persist for longer than 2–4 weeks after the last treatment application and/or if new burrows have appeared since treatment, advise retreatment for the same episodeDo not smoke or go near naked flames-risk of severe burns.	-Apply to the entire skin surface but not the head and faceDo not wash off or bathe for 24 hoursIf hands or any other parts must be washed during this period, the treatment must be reapplied to those areas immediatelyTreatment should be repeated after 7 daysFamily members and close contacts should also be treated simultaneouslyItching and rash may persist for up to 4 weeks after treatment, despite successful eradication of the scabiesDo not smoke or go near naked flames-risk of severe burns.	-May cause drowsiness. If affected do not drive or operate machineryAvoid alcohol.	-Use after a warm bath/shower to well dried skinRub into entire body surface area (excluding face and scalp)Will provide relief from irritation for 6 to 10 hours after applicationDo not smoke or go near naked flames-risk of severe burns.
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[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

21.6 Advice for patients^{108,111}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Treatment information

- When applying cream/liquid, particular attention should be paid to:
 - o areas between fingers and toes
 - o under nails
 - o wrists
 - o armpits

- o external genitalia
- o breasts
- o buttocks
- Other than crotamiton cream, the cream should be applied to cool dry skin (not after a hot bath) and allowed to dry before dressing.
- The cream is flammable and can make fabrics (including clothing and bedding) catch fire; do not go near naked flames or smoke.
- The cream should not be applied to broken skin, mucous membranes, or near the eyes.
- Corticosteroids for eczematous-like reactions should be withheld until after completion of scabies treatment as there is a risk of exacerbating the scabies infestation by reducing the immune response to the mite.
- Itching may continue for up to 4 weeks after successful treatment of scabies.

Decontamination

- Bedding, clothing, and towels of all potentially infested contacts should be decontaminated by washing at a high temperature (at least 60°C) and drying in a hot air dryer; alternatively, items can be sealed in a plastic bag for at least 72 hours.
- All members of the household should be treated simultaneously (within 24 hours).
- Affected person(s), including children, can go back to work or school 24 hours after the first treatment.
- Any sexual partners within the past month, and/or any other close personal contacts (even if asymptomatic) should be contacted by the individual as they should seek treatment also.

If you feel you are not improving after 4 weeks, or are getting worse, despite recommended treatment, please make an appointment to discuss with your GP.

22.0 Sore throat (INTERIM guidance)

This monograph supports the Community Pharmacy Sore Throat Test and Treat (STTT) additional clinical service:

- symptomatic treatment for sore throat may be provided under the Common Ailments Scheme (see text in black)
- antibiotic therapy may only be provided by STTT accredited Pharmacists (see additional text in blue)

22.1 About the ailment

Acute sore throat is a symptom of an underlying condition and should be accurately diagnosed before considering treatment. It is self-limiting and often triggered by a viral infection of the upper respiratory tract. Symptoms can last for around a week, but most people will get better within this time without antibiotics, regardless of cause¹¹⁴. Antibiotics for streptococcal sore throat decrease symptom duration by around 16 hours, however are indicated in some situations^{115,116}.

Sore throat is often associated with the common cold. It may also be a symptom of influenza or of infectious mononucleosis (glandular fever). Sore throat caused by glandular fever may take longer to resolve (usually within 1–2 weeks), with associated lethargy continuing for some time afterwards. The most common bacterial cause of sore throat is Group A beta-haemolytic Streptococcus (GABS). Non-infectious causes of sore throat are uncommon, and include physical irritation from gastro-oesophageal reflux disease or chronic cigarette smoke, and hayfever¹¹⁵.

In addition to soreness on swallowing, individuals may experience: 115-118

- a dry, scratchy throat
- bad breath
- swollen neck glands
- headache, malaise, rhinitis and cough
- nausea, vomiting and abdominal pain may be present in children with pharyngitis, and people with tonsillitis
- hoarseness if there is laryngeal involvement
- fever (common in pharyngitis and tonsillitis)

22.2 Possible complications¹¹⁵

A sore throat may result in significantly reduced fluid intake, which may lead to dehydration. For babies and young children, the number of wet nappies and whether fluid intake is significantly reduced (50 to 75% normal volume) should be considered. The child should be examined for signs of clinical dehydration (reduced skin turgor and/or a capillary refill time of more than three seconds, and/or dry mucous membranes).

Additional complications include:

- otitis media (most common) NNT with antibiotics > 200 to prevent one case
- peri-tonsillar abscess (quinsy) NNT with antibiotics > 4000 to prevent one case
- acute sinusitis
- parapharyngeal (deep neck) abscess
- cervical adenitis (neck lymph node inflammation)
- mastoiditis (a serious bacterial infection that affects the mastoid bone behind the ear; more common in children and requires immediate specialist assessment)
- epiglottitis (cartilage covering windpipe swells and blocks flow of air into lungs, can be fatal)
- scarlet fever (notifiable disease)
- streptococcal toxic shock syndrome (rare)
- Lemierre's syndrome (rare acute septicaemia and jugular vein thrombosis secondary to infection with *Fusobacterium* spp.)
- rheumatic fever (rare in developed countries but still quite prevalent in developing countries)
- post-streptococcal glomerulonephritis
- guttate psoriasis may flare up in the presence of a streptococcal infection

22.3 When to refer

Refer to A&E

- Difficulty breathing.
- Severe symptoms, getting worse quickly, signs of sepsis or systemically very unwell/severe pain.
- Stridor.
- Drooling or difficulty swallowing or opening mouth.
- Muffled voice.
- Confusion, drowsiness or slurred speech.
- Systemically unwell and at risk of immunosuppression.
- · Coughing up blood.
- Skin changes very cold, or a strange colour or rash develop.
- Suspected peri-tonsillar abscess.

Refer to GP/NHS 111 for same day assessment

- Immunocompromised (due to medical condition or immunosuppressant medicine e.g. cancer treatment, high-dose steroids, consider also medicines that can cause idiosyncratic neutropenia e.g. carbimazole).
- · Dehydrated or unable to take fluids.
- Abnormal breathing pattern (but not struggling for breath).
- Rash, flushed cheeks and swollen tongue could be a sign of scarlet fever most common in children.
- Persistently high temperature over 38°C uncontrolled by paracetamol or ibuprofen.
- Suspected rare cause such as Kawasaki disease, diphtheria or yersinial pharyngitis.
- Chest pain (consider emergency referral).
- Severe oral mucositis.
- Peri-tonsillar cellulitis.
- Severe headache and vomiting.
- High risk of serious complications because of pre-existing comorbidity, including:
 - o significant heart disease (including valvular heart disease)
 - o history of rheumatic fever
 - o uncontrolled diabetes
 - o lung, renal, liver or neuromuscular disease
 - o cystic fibrosis
- Systemically unwell where the STTT extended service is not available.
- Systemically very unwell where there are no features indicating urgent referral to A&E.

Refer to GP for routine assessment

- Persistent symptoms that haven't improved after 7 days (refer sooner if symptoms worsen) sore throat after 7 days with lethargy may indicate glandular fever, especially if patient is 15 to 25 years old.
- Repeated episodes (5 or more) per year or a lower threshold if there are other concerns.
- Refer as clinically appropriate for any other concerns.

STTT additional clinical service

- Significant drug interaction with antibiotics where treatment is indicated.
- Patient meets an exclusion criterion for provision of the service, where antibiotics are likely to be beneficial (systemically unwell and FeverPAIN 4 or 5/Centor 3 or 4) (see below).

22.4 Assessment and overview of treatment

Symptom relief

Paracetamol or ibuprofen can be supplied to help ease pain and fever.

Medicated lozenges containing a local anaesthetic and NSAID or an antiseptic agent may help pain in adults.

Antibiotic treatment via the STTT extended service pathway

Assessment of the person is required to ensure appropriate antimicrobial management. Differentiating a viral sore throat from that caused by GABS on the basis of examination is difficult. The Centor or FeverPAIN criteria should be used along with examination of the person to determine the likelihood of streptococcal infection (and therefore the need for antibiotic treatment)¹¹⁵.

The **Centor criteria** are scored out of 4 depending on how many of the following are present:

- 1. tonsillar exudate
- 2. tender anterior cervical lymph nodes
- 3. absence of cough
- 4. history of fever

The **FeverPAIN score** is scored out of 5 depending on how many of the following are present:

- 1. fever in the last 24 hours
- 2. purulent tonsils
- 3. attend rapidly (patient attended within 3 days of the onset of symptoms)

- 4. severely inflamed tonsils
- 5. no cough or coryza

Centor score of 0, 1 or 2; or a FeverPAIN score of 0 or 1

- > Excluded from PGD for antibiotic supply do not offer antibiotics¹¹⁵ or RADT.
- > Refer to the "Advice for Patients" section below.

FeverPAIN score of 2 or 3

- > Consider if the patient is likely to benefit from antibiotic treatment and, where this is the case, carry out a RADT.
- ➤ If the patient is less likely to benefit from antibiotics, provide symptomatic treatment and give advice on actions to take if symptoms worsen (see "Advice for Patients" section below).

FeverPAIN score of 2 or 3 with a positive RADT result for Strep A

- Watch and wait if practical:
 - advise the person to return to the pharmacy for reassessment if symptoms fail to improve over the next 48 hours
 - advise seeking advice from GP or A&E if the person becomes systemically very unwell¹¹⁵
 - refer to the "Advice for Patients" section below
- Consider supplying antibiotic with advice, depending on clinical condition; bearing in mind other circumstances (e.g. weekend/bank holiday), the unlikely event of complications if antibiotics are not taken and possible adverse effects:¹¹⁵
 - advise the person to return to the pharmacy for reassessment if symptoms fail to improve over the next 48 hours
 - advise seeking advice from GP or A&E if the person becomes systemically very unwell¹¹⁵
 - refer to the "Advice for Patients" section below
- > Consider providing a delayed antibiotic supply to start if symptoms do not improve or worsen over the next 2–3 days:115
 - advise the person (if practical) to return to the pharmacy if symptoms fail to improve over the next 48 hours for reassessment
 - advise seeking advice from GP or A&E if the person becomes systemically very unwell¹¹⁵
 - refer to the "Advice for Patients" section below

Centor score of 3 or 4, or a FeverPAIN score of 4 or 5 with a POSITIVE RADT result for Strep A

▶ If the person is <u>not</u> systemically very unwell; <u>not</u> showing signs of a more serious condition; and <u>not</u> at high risk of complications:

- consider supplying antibiotic with advice, depending on clinical condition; bearing in mind other circumstances (e.g. weekend/bank holiday), the unlikely event of complications if antibiotics are not taken and possible adverse effects¹¹⁵
- consider providing a delayed antibiotic supply to start if symptoms do not improve or worsen over the next 2–3 days¹¹⁵
 - advise the person (if practical) to return to the pharmacy if symptoms fail to improve over the next 48 hours for reassessment
 - o advise seeking advice from GP or A&E if the person becomes systemically very unwell¹¹⁵
 - o refer to the "Advice for Patients" section below
- ➤ If antibiotics are **not** supplied:
 - advise the person to return to the pharmacy if symptoms fail to improve over the next 48 hours for reassessment
 - advise seeking advice from GP or A&E if symptoms worsen rapidly or significantly, or the person becomes systemically very unwell¹¹⁵
- > If the person is systemically very unwell or showing signs of a more serious condition or at high risk of complications:
 - check referral criteria and refer immediately as appropriate

Negative RADT test

- > Reassure the patient that the sore throat is not likely to be bacterial and therefore antibiotics will be unlikely to help.
- > If there is symptomatic worsening, or new symptoms, return for assessment.
- Advise seeking advice from GP or A&E if the person becomes systemically very unwell¹¹⁵
- > Refer to the "Advice for Patients" section below.

22.5 Treatments^{1,23,24,115}

Paracetamol dosing and dose/dosing interval adjustments in ADULTS

Dose of ORAL paracetamol in ADULT patients WITHOUT risk factors for paracetamol toxicity and ≥50 kg					
500 m	500 mg or 1 gram up to four times daily (minimum 4 hours between doses). Maximum 4 grams in 24 hours.				
	Dose of ORAL paracetamol in ADULT patients WITH risk factors* for paracetamol toxicity				
Body weight	Dose reduction up to a maximum of 15 mg/kg body weight per dose				
33 kg to < 40 kg	500 mg up to four times a day (minimum 6 hours between doses). Maximum 2 grams in 24 hours.				
40 kg to < 50 kg	500 mg or 1 gram up to four times a day (minimum 6 hours between doses). Maximum 3 grams in 24 hours.				
≥ 50 kg	500 mg or 1 gram up to four times a day (minimum 4 hours between doses). Maximum 3 grams in 24 hours.				

*Risk factors for paracetamol toxicity:

- body weight less than 50 kg
- chronic alcohol overconsumption
- severe liver disease
- increasing age and/or frailty where paracetamol might have been prescribed for significant periods and who have morbidities and polypharmacy; can further increase risk of inadvertent overdose and toxicity
- chronic malnutrition with nutritional deficiency and/or chronic debilitating illness and therefore likely to be glutathione deplete e.g. acute or chronic starvation (patients not eating for a few days), eating disorders (anorexia or bulimia), cystic fibrosis, AIDS, cachexia, alcoholism, cirrhosis
- chronic dehydration
- hepatic enzyme induction or evidence of ongoing liver injury e.g. long-term treatment with liver enzyme-inducing drugs such as carbamazepine, phenobarbital, phenytoin, primidone, rifampicin, rifabutin, efavirenz, nevirapine, St John's wort; regular consumption of ethanol in excess of recommended amounts, particularly if nutritionally compromised

Analgesia		Paracetamol			Ibuprofen	
Generic name	Paracetamol 120 mg in 5 mL sugar-free oral suspension	Paracetamol 250 mg in 5 mL sugar-free oral suspension	Paracetamol 500 mg tablets	Ibuprofen 100 mg in 5 mL sugar-free oral suspension	lbuprofen 200 mg tablets	Ibuprofen 400 mg tablets
Legal class	Р	Р	Р	Р	Р	Р
Pack size	100 mL	200 mL	32	100 mL	24	24
Maximum number of packs to supply per consultation	1	1	1	1	1	1
Maximum number of consultations per episode [†]	1	1	1	1	1	1
Maximum number of episodes per year	2	2	2	2	2	2
Dosing instructions	As per pack	As per pack	As per pack and dosing table above	As per pack	As per pack	As per pack
Key information to consider prior to supply	 First-line for children or for adults who cannot tolerate ibuprofen Not indicated for children < 3 months old A maximum of 1 x 200 mL paracetamol 250 mg in 5 mL sugar free suspension may be supplied for children over 12 years who are unable to take paracetamol tablets 			relieving symptosecond-line in second-line in second-line in second-line in second-line in second in child caution in child caution in child sease, cerebo peptic ulceration in SAIDs with logastrointestina lf gastro-protect paracetamol in	or children < 3 months dren at risk of dehydra ons to NSAIDs include schaemic heart disease, reports caution in asthmatow dose aspirin may in a side effects; avoid if cition is required consider.	cated, and s old ation. : heart failure, se, peripheral arterial enal impairment and acrease the risk of possible der supplying
Counselling advice	If taking paracetamol regularly and the individual is on warfarin, advise INR test 5 to 7 days later			Take with or after food	•	J

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

Antibiotics: First line (if there is no penicillin allergy)						
Medication	Phenoxyme	Amoxicillin (if phenoxymethylpenicillin unavailable)				
Formulation	250 mg tablets	250 mg in 5 mL oral solution sugar free	500 mg capsules	250 mg/5 mL oral suspension	500 mg/5 mL oral suspension	
Legal class		POM (supply via PGD by	pharmacists accredite	ed for STTT)		
Quantity to supply per consultation	Appropriate quantity for 10 days (see PGD)		30	Appropriate quantity for 10 days (see PGD)	Appropriate quantity for 10 days (see PGD)	
Maximum number of consultations per episode [†]	1	1	1	1	1	
Maximum number of episodes per year	2	2	2	2	2	
Dosing instructions	 250 mg four times daily in those aged 6 to 11 years 500 mg four times daily in those aged over 12 years 		One capsule three times a day	500 mg (TWO 5 mL spoonful's) three times a day	500 mg (ONE 5 mL spoonful) three times a day	
	Treatment course = 10 days					
Counselling advice		(an hour before food or clude diarrhoea, nausea, ons, joint pain ¹¹⁵ . day. Complete the en as liquid form, refer to the dosage forms of antibiotics	prescribed course. Note that individuals infection with gland increased frequency. If the capsules need	venly throughout the days, particularly adolesce ular fever/Epstein-Barry of amoxicillin associated to be given as liquid to sing solid dosage form are not available.	ents with concurrent virus (EBV) have an ated skin rashes. form, refer to the	

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

		Antik	piotics: second line				
Medication	Clarithromycin (if penicillin allergic – not suitable in pregnancy or breast feeding)			Erythromycin (if penicillin allergic and pregnant or breast feeding or first-line options and clarithromycin are not available)			
Formulation	500 mg tablets 125 mg in 5 mL oral suspension 250 mg in 5 mL oral suspension			250 mg g/r tablets	500 mg tablets	250 mg in 5 mL	500 mg in 5 mL
Legal class		POM (sup	ply via PGD by pharma	acists accredite	d for STTT)		
Quantity to supply per consultation	10	Appropriate quantity for 5 days (see PGD)	Appropriate quantity for 5 days (see PGD)	40	20	Appropriate quantity for 5 days (see PGD)	Appropriate quantity for 5 days (see PGD)
Maximum number of consultations per episode [†]	1	1	1	1	1	1	1
Maximum number of episodes per year	2	2	2	2	2	2	2
		Body weight/age	Dose				
		12-19 kg over 6 years:	125 mg twice daily				
Decing instructions	Over 12 years:	20-29 kg over 6 years:	187.5 mg twice daily	6–7 years: 250 mg four times a day for 5 days 8 years old and over: 500 mg four times a day for 5 days			
Dosing instructions	500 mg twice daily for 5 days	30-40 kg over 6 years:	250 mg twice daily				
	daily for 5 days	Age over 12 years:	500 mg twice daily	У			
		Treatment cours	e is for 5 days				
Counselling advice	Swallow tablets whole with water. Can be taken with or after food. Nausea, vomiting, abdominal discomfort, and diarrhoea are the most common adverse effects of macrolides ¹¹⁵ . Space the doses evenly throughout the day. Keep taking this medicine until the course is finished, unless you are told to stop. Complete the prescribed course. If the tablets need to be given as liquid form, refer to the WMAS advice on using solid dosage forms of antibiotics when liquid formulations are not available.						

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

22.6 Advice for patients

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

General advice for patients

- Colds, most coughs, sinusitis, ear infections, sore throats, and other infections often get better without antibiotics, as your body can usually fight these infections on its own¹¹⁹.
- Sore throat usually gets better within 7 days, with or without antibiotics¹¹⁷.
- Taking antibiotics makes bacteria that live inside your body more resistant so the antibiotics may not work when you really need them¹¹⁹.
- Antibiotics can cause side effects such as rashes, thrush, stomach pains, diarrhoea, reactions to sunlight, other symptoms, or being sick¹¹⁹.
- Provide information leaflet from the TARGET: Respiratory tract infection resource suite: Patient facing materials (rcgp.org.uk)

If antibiotics are not supplied

- Return to the pharmacy if symptoms do not improve after 7 days (48 hours if FeverPAIN score of 2 or more; or Centor score of 3 or more), or earlier if symptoms worsen.
- Seek advice from GP or A&E if the person becomes systemically very unwell¹¹⁵.
- Advise on criteria for urgent medical advice below.

If antibiotics are supplied via STTT extended service

- Seek advice from GP if symptoms worsen or do not improve within 3–4 days; seek advice from GP or A & E if the person becomes systemically very unwell¹¹⁵.
- Advise on criteria for urgent medical advice below.

Over-the-counter treatments

- Some people find medicated lozenges containing a local anaesthetic and NSAID or antiseptic useful.
- There is little evidence for benzydamine gargles /spray^{115,116}.
- There is no evidence for zinc lozenges, herbal remedies or acupuncture 115,116,118.
- Adults and older children may find sucking hard sweets, ice cubes or ice lollies provide symptomatic relief¹¹⁷.
- Adults can try a warm saline gargle (half a teaspoon of salt in a glassful of warm water at frequent intervals), but do not swallow. This is not suitable for young children¹¹⁷.

Lifestyle

- Rest and take simple painkillers at regular intervals to relieve pain and fever 117,118.
- Avoid smoking and smoky environments¹¹⁷.
- If you have a high temperature or you do not feel well enough to do your normal activities, try to stay at home and avoid contact with other people until you feel better¹¹⁷.
- Drink plenty of water to avoid dehydration¹¹⁷.
- Eat cool and soft foods¹¹⁸.
- Hot drinks should be avoided as these can exacerbate pain¹¹⁵.
- Children may return to school or day care after fever has resolved and they are no longer feeling unwell, and/or after taking antibiotics for at least 24 hours¹¹⁵.

Advise the patient to seek urgent medical advice if there is 117-119

- Difficulty breathing/speaking or stridor.
- Drooling/difficulty swallowing.
- Muffled voice.
- Skin changes very cold, or a strange colour or rash develop.
- Confusion, drowsiness or slurred speech.
- Severe headache and sickness.
- Severe pain or feeling a lot worse.
- Inability to swallow adequate fluids or passing little to no urine.
- Chest pain.
- Coughing up blood.

Sore Throat Test & Treat (STTT) Summary

V1 September 2022 - to be used in conjunction with STTT Monograph and PGDs 22/23

NO Point of Care test

Introduction: STTT summary page to support management of sore throat by accredited community pharmacists.

FeverPAIN

Score 0 -1 Or

0-2

Centor Score Do not offer antibiotics

(RADT)

If no RADT:

- Return in 7 days for reassessment if symptoms have not improved; sooner if they worsen
- Seek medical help if symptoms worsen or person becomes very unwell

· Return for reassessment if there are new

symptoms or if symptoms have worsened

· Seek medical help if symptoms worsen rapidly

FeverPAIN Score

1 point for each, max. 5:

Fever

Purulence

Attend within 3 days or less

Inflamed tonsils

No cough or coryza

Centor Score

1 point for each, max. 4:

- 1. Tonsillar exudate
- 2. Tender anterior cervical lymph nodes
- 3. History of fever > 38°C
- 4. No Cough

FeverPAIN Score 2-3

FeverPAIN Score 4-5

Or

Centor Score 3-4

Advise Point of Care testing (RADT).

Consider antibiotics if positive

Refer to GP or Out of hours if the person:

- · Is systemically unwell, or
- Has signs of more serious illness, or
- · Has high risk of complications

Refer to hospital if there are:

- Signs of severe systemic infection
- Severe complications

If RADT is positive:

If RADT is negative:

· Supply antibiotics if clinically appropriate

or person becomes very unwell

- If antibiotics are not supplied, advise return in 48 hours for reassessment if symptoms have not improved
- Seek medical help if symptoms worsen rapidly or person becomes very unwell

Antibiotic use

- Antibiotics make little difference to how long symptoms last or the number of people whose symptoms improve
- Withholding antibiotics is unlikely to lead to complications
- Possible adverse affects include nausea and diarrhoea

Summary information from:

NICE guideline [NG84]: Sore throat (acute): antimicrobial prescribing. 2018. Available at:

https://www.nice.org.uk/guidance/ng84. Accessed Sept 2022.

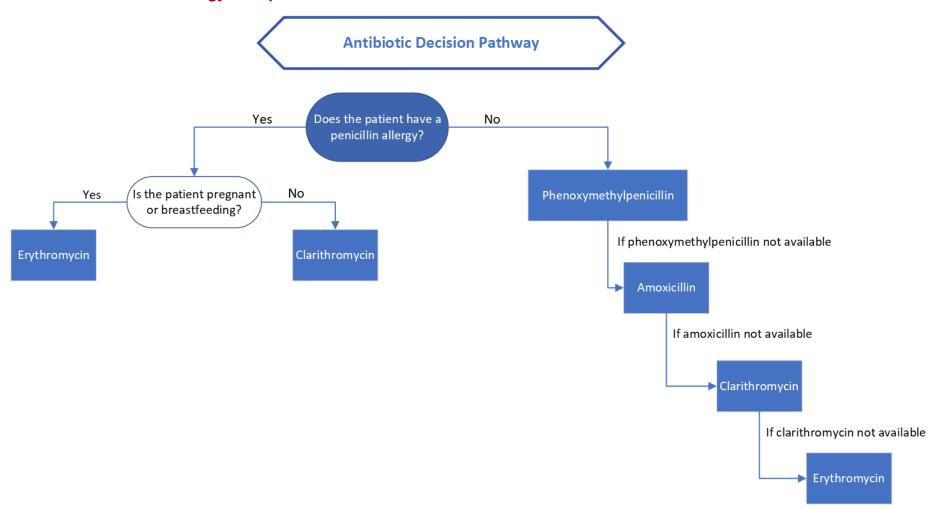
Reassess at any time if symptoms worsen Consider

- Alternative diagnoses
- Signs/symptoms of more serious illness
- · Previous antibiotic use leading to resistance

Refer rapid/significant worsening for medical advice

Self-Care Advice

- · Consider paracetamol for pain and/or fever
- · Can use ibuprofen if appropriate
- · Medicated lozenges may reduce pain in adults



23.0 Teething

23.1 About the ailment^{120,121}

Teething occurs when the teeth emerge through the gums. Most children start teething around 4–12 months of age and have their full set of teeth at around 2 to 3 years old. Signs and symptoms of teething are generally mild and usually occur about 3–5 days before each tooth erupts.

Signs and symptoms include:

- pain
- increased biting
- chewing
- dribbling / drooling
- gum-rubbing
- sucking
- mildly raise temperature (not above 38°C)
- irritability
- wakefulness
- ear-rubbing
- facial rash
- decreased appetite
- disturbed sleep
- tender, red and swollen gums
- · red flushed cheeks or face

23.2 Possible complications¹²⁰

Teething itself is a normal physiological process and is not associated with severe or systemic symptoms. Presence of these would suggest other underlying conditions and should be referred.

23.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)^{120,121}

- Fever (raised temperature above 38°C).
- Diarrhoea there may be a change in the passage of stools at teething time, but it should not cause diarrhoea (refer to <u>Section 9.0 Diarrhoea</u>).
- Any infant who is systemically unwell, in severe distress or has prolonged symptoms.

• Diagnostic uncertainty.

23.4 Overview of treatment^{120,122}

First-line treatment is with self-care measures.

Consider paracetamol and/or ibuprofen for symptomatic relief in infants over 3 months of age if self-care hasn't helped.

23.5 Treatments^{22,120}

Medication	1 st line	2 nd line			
Generic name	Paracetamol 120 mg in 5 mL sugar-free paediatric oral suspension	Ibuprofen 100 mg in 5 mL sugar-free oral suspension			
Legal class	P	Р			
Pack size	100 mL	100 mL			
Maximum number of packs to supply per consultation	1	1			
Maximum number of consultations per episode [†]	2				
Maximum number of episodes per year	2				
Dosing instructions	As per pack directions				
Key information to	Only use if self-care methods do not help. Limit to children over 3 months of age.				
consider prior to supply	Refer to the BNF/SPC for full details on interactions, adverse effects, cautions and contraindications.				
Counselling advice	As per pack directions				

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

23.6 Advice for patients 120-124

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Offer reassurance that teething is normal and not an illness. Symptoms are generally mild and self-limiting.

Self-care measures

- Gently rub the gum with a clean finger.
- Under supervision, allow the child to bite on a clean, cool (not frozen) object (avoid objects that can easily be broken into hard pieces because they may be a choking risk); suitable examples include:
 - o a chilled teething ring or cold wet flannel (never tie the teething ring around the infant's neck, as it is a choking hazard); solid rings are preferred over gel or liquid filled rings, which could leak
 - o chilled fruit and vegetables (e.g. banana, apple, carrot or cucumber) for children who have been weaned; sugar-free products are preferred (avoid teething biscuits or rusks) so as not to cause tooth decay
- Cuddle, reassure and distract the child with play.
- Wipe away excess saliva regularly to reduce risk of facial rash.
- Cool, sugar-free drinks can help soothe gums.

Dental care

- As soon as teeth erupt, brush them using a toothbrush and fluoride toothpaste use a tiny smear for babies, and a pea-sized amount for children.
- For children under 3 years old, use a toothpaste with a fluoride level of 1000 ppm (parts per million) twice daily.
- Encourage parents/carers to take their child to the dentist before the first tooth erupts, at about six months of age.

Medication for symptom relief

- Teething gels that contain a local anaesthetic (e.g. Bonjela[®] Junior gel and Dentinox[®] Teething gel) are not recommended as they can cause harm if swallowed.
- If teething gels are used, they are only available under the supervision of a pharmacist.
- Bonjela® Junior gel is not licensed for children under the age of 5 months.
- Oral gels containing salicylates must never be used in children under 16 years old because of the risk of Reye's syndrome.
- There is no good evidence that complementary treatments (e.g. herbal teething powder or homeopathic remedies) are of benefit for teething symptoms.

If you feel your child is not improving, or is getting worse, despite self-care advice and/or treatment options, please make an appointment to discuss with your GP.

24.0 Threadworms

24.1 About the ailment^{125,126}

Threadworms are small, thin, white thread-like worms about 2–13 mm long. They do not usually cause serious problems and are common in children, but anyone can be affected. Female worms lay tiny eggs around the anus. This causes itching which is usually worse at night. The worms might be visible in stools or around the anus. Adult threadworms survive for about 6 weeks and infection is maintained by swallowing fresh eggs. Infection is unlikely to resolve without treatment.

24.2 Possible complications¹²⁵

- Lack of sleep (due to itching) with subsequent daytime irritability and difficulty concentrating.
- Intestinal damage.
- Bedwetting.
- Excoriation and secondary infection of the perianal skin.
- Disease in other sites due to worm migration (e.g. the urethra and female genito-urinary tract).
- Colitis, abscess and granuloma formation may occur within the intestines, along the perineal skin, and within the peritoneum (extremely rare).

24.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)¹²⁵

- Individuals less than 6 months of age.
- Pregnancy or breastfeeding where hygiene measures alone ineffective or not acceptable.
- Frequent recurrences.
- Diagnostic uncertainty.

24.4 Overview of treatment^{125,126}

- Treat the person if threadworms (or eggs) have been seen.
- Treatment options include:
 - o hygiene measures alone (undertaken for 6 weeks), OR
 - o mebendazole and hygiene measures (undertaken for 2 weeks)
 - > the health risks and benefits of mebendazole for children under 2 years of age should be carefully considered
 - > mebendazole is given as a single dose, but as reinfection is common, a 2nd dose may be given after 2 weeks
- Treat all household members over 6 months old at the same time unless contraindicated, as asymptomatic infection is common.

24.5 Treatments^{1,8,125-127}

Medication	Anthelmintic				
Generic name	Mebendazole 100 mg/5 mL suspension	Mebendazole 100 mg chewable tablets			
Suggested brand	Vermox® 100mg/5mL oral suspension	Vermox® 100mg chewable tablets			
Legal class	POM (via PGD)	POM (via PGD)			
Pack size	30 mL	Maximum 2 x 100 mg tablets (from splitting a pack of 6 tablets)			
Maximum number of packs to supply per consultation	See PGD	See PGD			
Maximum number of consultations per episode [†]	1				
Maximum number of episodes per year	2				
Dosing instructions	See PGD				
Key information to consider prior to supply	See PGD				
Counselling advice	_	ee PGD with the supplies provided should be documented.			

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

24.6 Advice for patients^{125,126}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

- Hygiene measures should be undertaken for 2 weeks if combined with mebendazole treatment, or for 6 weeks if used alone.
- Two doses of mebendazole will be supplied for each household member (unless contraindicated); the second should be taken 2 weeks after the first if the infection hasn't cleared.

Home hygiene measures (undertake on the first day of treatment)

- Wash sleepwear, bed linen, towels and soft toys at normal temperatures and rinse well.
- Thoroughly vacuum and damp-dust all rooms, paying particular attention to the bedrooms, including vacuuming mattresses, rinse the cloth in hot water frequently throughout dusting, then throw it away.
- Disinfect kitchen and bathroom surfaces.
- Avoid shaking any material that may be contaminated with eggs, such as clothing or bed sheets.

Personal hygiene measures for all treated individuals

- Complete for 2 weeks if combined with drug treatment or for 6 weeks if used alone.
- Wear close-fitting underpants at night and change them every morning.
- Use cotton gloves to help prevent night-time scratching; wash and change these, bed linen and nightwear daily for several days after treatment.
- Bath or shower immediately on rising each morning, washing around the anus to remove any eggs laid by the worms during the night.

General personal hygiene measures for all household members

- Wash hands and scrub under the nails first thing in the morning, after using the toilet or changing nappies, and before eating or preparing food.
- Avoid nail biting and finger sucking and keep fingernails short.
- Avoid sharing towels or flannels.
- Avoid scratching around the anus.
- Keep toothbrushes in a closed cupboard and rinse them thoroughly before use.
- Children do not need to be excluded from school or nursery.

If you feel you are not improving, or are getting worse, despite the introduction of lifestyle measures and treatment courses as discussed with the pharmacist, please make an appointment to discuss with your GP.

25.0 Vulvovaginal candidiasis

25.1 About the ailment^{128,129}

Vulvovaginal candidiasis (genital thrush) is a symptomatic inflammation of the vagina and/or vulva caused by a superficial fungal infection.

Common symptoms include:

- vulval or vaginal itching and irritation
- a white, odourless vaginal discharge
- soreness and stinging during sex or urination
- redness

25.2 Possible complications¹²⁸

Recurrent infection can be problematic. There may be a poor or partial response to therapy with persistence of symptoms between treatments which may result in reduced quality of life and psychosexual difficulties.

25.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)^{128,129}

- Individuals under 16 years of age and over 60 years of age.
- Immunocompromised individuals.
- Women with diabetes if:
 - there are concerns regarding the individual's diabetic control and/or the individual is at increased risk of detrimental symptoms associated with poorly controlled diabetes; symptoms include thirst, blurred vision, fatigue and increased frequency of urination
 - o the individual is unsure how to manage their diabetes
- Abdominal pain, a foul-smelling discharge, increased urinary frequency or abnormal vaginal bleeding.
- Symptoms have not resolved fully within 7 days of appropriate treatment.
- Individuals who have nausea, vomiting or diarrhoea or are otherwise systemically unwell.
- Uncertain diagnosis e.g. patient has had a previous sexually transmitted infection and it may have returned.

25.4 Overview of treatment¹²⁸

Antifungal drug treatment options and preparations depend on the woman's age, co-morbidities, personal preference, drug cautions and contraindications:

- 1st line: fluconazole as a single 150 mg oral dose
- 2nd line: clotrimazole 500mg intravaginal pessary as a single dose can be considered if oral therapy is contraindicated

- **3**rd **line:** clotrimazole 10% intravaginal cream as a single dose at night (if oral azole or intravaginal imidazole therapy contraindicated or not tolerated)
- If there are vulval symptoms, consider topical clotrimazole cream in addition to a 1st or 2nd line option

N.B Treatment failure — occurs in up to 20% of women receiving imidazole treatment for acute infection.

25.5 Treatments^{22,128}

Medication	1 st line	2 nd line (If oral therapy contraindicated)	3 rd line (if oral azole or 2 nd line intravaginal imidazole therapy contraindicated or not tolerated)	In addition to 1 st , 2 nd or 3 rd line therapy if there are vulval symptoms		
Generic name	Fluconazole 150 mg capsule	Clotrimazole 500 mg intravaginal pessary	Clotrimazole 10% intravaginal cream (Canesten Internal®)	Clotrimazo	e cream 2%	
Legal class	P (supply via PGD)	P (supply via PGD)	POM (supply via PGD)	P (supply via	P (supply via PGD)	
Pack size	1	1	5 g	20 g		
Maximum number of packs to supply per consultation	1	1	1	1		
Maximum number of consultations per episode [†]	If symptoms	2 Both supplies should occur within a 7-day period. If symptoms have not fully resolved within 7 days the individual should be referred to their GP.				
Maximum number of episodes per year	(only supply a second treatment if the first episode resolved within 2 weeks)					
Dosing instructions	See PGD					
Key information to consider prior to supply	See PGD					
Counselling advice	See PGD					

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

25.6 Advice for patients^{128,130}

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

Advise about the following:

- use water and an emollient, instead of soap, to clean or moisturise the vulval area, and dry properly
- avoid potential irritants in toiletries (including soaps or shower gels), antiseptics, wipes, and 'feminine hygiene' products
- · avoid vaginal douching
- avoid washing underwear in biological washing powder and avoid fabric conditioners
- wear cotton underwear
- avoid tight-fitting clothing and non-absorbent clothing
- see GP if symptoms not resolved within 7 days
- if using a pessary or intra-vaginal cream, avoid treatment during the menstrual period due to the risk of the pessary or cream being washed out by the menstrual flow. The treatment should be finished before the onset of menstruation; do not use tampons, intravaginal douches, spermicides or other vaginal products while using the pessary or intra-vaginal cream
- latex contraceptives such as condoms or diaphragms may be damaged by topical thrush treatment and may not be effective; alternative precautions should be used for at least five days after using these products
- it is preferable to avoid having sex until a course of treatment has been completed and the infection has cleared up; partners do not need treatment unless they have symptoms
- avoid use of complementary therapies such as application of yoghurt, topical or oral probiotics, and tea tree or other essential oils

If you feel you are not improving, or are getting worse, despite treatment, please make an appointment to discuss with your GP.

26.0 Warts and verrucae

26.1 About the ailment¹³¹

Cutaneous warts are small, rough growths caused by infection of keratinocytes with certain strains of the human papilloma virus. They can appear anywhere on the skin but are most commonly seen on the hands and feet. A verruca (plantar wart) is a wart on the sole of the foot. Warts usually resolve spontaneously within 2–3 years (in adults, resolution may take 5–10 years).

26.2 Possible complications¹³¹

- Spread of the wart and local infection caused by picking at it.
- Malignant changes (rare, except among immunosuppressed patients).

26.3 When to refer to GP (or Pharmacist Independent Prescriber if thought to be appropriate)¹³¹

- Wart(s) on the face, intertriginous or anogenital regions.
- Hairy or bleeding warts, or those that have changed in appearance.
- Immunocompromised individuals.
- Extensive areas affected.
- If warts are persistent and unresponsive to salicylic acid after 12 weeks.
- Individuals with diabetes or people who have poor circulation to the hands or feet.
- A wart associated with significant pain.
- Individual < 2 years of age.
- Uncertain diagnosis.

26.4 Overview of treatment¹³¹

There is a strong case for not treating warts for most people since they usually clear spontaneously, and treatment may be prolonged or cause side effects (e.g. skin irritation). Treatment should be considered if the wart is painful (e.g. on the sole of the foot), cosmetically unsightly, or if the person requests treatment for persistent warts. Facial warts should not be treated in primary care.

Salicylic acid is the first line treatment of choice. It is not suitable for use on:

- the face
- intertriginous (skin folds) or anogenital regions
- moles or birthmarks
- warts with hair growing out of them, red edges, or an unusual colour

- open wounds
- mucous membranes
- irritated or reddened skin
- infected areas
- areas of poor healing such as neuropathic feet
- warts affecting patients with impaired blood circulation

There is insufficient evidence to recommend any particular salicylic acid preparation over another, however a weaker strength preparation (17% or less, such as SalactolTM) is recommended for palmar warts on the back of the hands, as scarring is more likely to occur.

26.5 Treatments¹³¹⁻¹³⁶

Medication		Treatmen	t options		
Generic name	Salicylic acid 16.7%; lactic acid 16.7% (Salactol™ collodion paint)	Salicylic acid 26% cutaneous solution (Occlusal®)	Salicylic acid 26% gel (Bazuka [™] Extra strength)	Salicylic acid 40% medicated plasters (Scholl TM Verruca Removal System)	
Legal class	P	Р	Р	Р	
Pack size	10 mL	10 mL	5 g	30	
Maximum number of packs to supply per consultation	1	1	1	Up to 3	
Maximum number of consultations per episode [†]	1	1	1	1	
Maximum number of episodes per year	2	2	2	2	
Dosing instructions	Follow product-specific directions for guidance.				

Key information to consider prior to supply	-	Avoid salicylic acid in children or teenagers during or immediately after chickenpox, influenza, or other viral infections owing to a theoretical risk of Reye's syndrome.				
	Licensed in pregnancy and breastfeeding. Avoid in people allergic to elastic adhesive plaster. Allergy may develop to colophony in the product. Suitable for palmar warts on the back of the hand. Refer to present the product of the product.	Safety not established in pregnancy and breastfeeding: use with caution	Licensed in pregnancy and breastfeeding.	Licensed for common warts on the feet and hands in people 16 years old and over. Contraindicated in pregnancy and breastfeeding.		
	Refer to the BNF/SPC for full details on interactions, adverse effects, cautions and contraindications.					
Counselling advice	 Salicylic acid is flammable. Avoid smoking or going near open flames when using this treatment-risk of serious injury If the surrounding skin becomes sore, stop the treatment for a few days until it settles, then re-start treatment Wash hands after applying salicylic acid and avoid inhaling the vapour Salicylic acid may cause damage to fabrics and other materials There is a small risk of skin allergy to the treatment when the surrounding skin becomes red and itchy, rarely local skin discoloration may occur – stop if this occurs. Continue treatment as per product information leaflet 					

[†] Episode: one episode constitutes an appropriate number of consultations (as defined above) in which lifestyle advice or treatment is provided. Resolution of symptoms or onward referral would define the end of the episode.

26.6 Advice for patients¹³¹⁻¹³⁵

Patient information leaflets in English and Welsh are available on the Welsh Medicines Advice Service website.

General information

- Although unsightly, warts are not harmful, do not usually cause symptoms and resolve eventually without treatment.
- Warts are contagious but the risk of transmission is low.
- There is no need to avoid sports or swimming, but take measures to avoid transmission.

To reduce the risk of transmission

- · Wear flip-flops in communal showers.
- Avoid sharing shoes, socks and towels.
- Avoid scratching lesions, biting nails or sucking fingers that have warts.
- Keep feet dry and change socks daily.
- · Cover with a waterproof plaster when swimming.

If you feel you are not improving, or are getting worse, despite lifestyle adjustments and/or completing a 12-week treatment course, please make an appointment to discuss with your GP.

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