

NHS Fife Antibiotic Guidance for the Treatment of Community Managed Infections in Adults

- See BNF for interactions, as well as appropriate use and dosing in specific populations, for example, hepatic impairment, renal impairment, pregnancy and breastfeeding. Unless specifically mentioned, this guidance does not cover prescribing in pregnancy.
- Clostridium difficile is associated with the use of all antibiotics but most strongly with cephalosporins, co-amoxiclav, clindamycin and quinolones. Avoid these agents if possible unless they are specifically recommended.
- Fluoroquinolone warning: these antibiotics (usually ciprofloxacin) have been reported to cause serious side effects involving tendons, muscles, joints, and the nerves, and mental health effects which may include, but are not necessarily limited to, anxiety, panic attacks, and memory impairment in a small proportion of patients, these side effects caused long-lasting or permanent disability. Please review the <u>MHRA Safety Advice</u> before prescribing. If these are prescribed, consider providing the patient with an information leaflet like <u>this one from the MHRA</u>. If any of these side-effects are noted, treatment should cease. Do not prescribe ciprofloxacin for uncomplicated cystitis, or for minor or self-limiting infections, unless there is no clear alternative.
- Use antibiotics only when there is evidence of bacterial infection.
- Empirical treatment targets the most likely pathogens; review treatment once any culture and sensitivity results are known, or if the patient fails to respond.
- Use a narrow spectrum agent where possible, and prescribe the shortest appropriate duration of treatment.
- If antibiotics have been started inappropriately, stop don't complete a course just because it has been started, if there is a clear alternative diagnosis.
- There are separate guidelines available for infections in children.
- Further information is available for some conditions via the NICE website. NB: for antibiotic choice, strength and duration please adhere to those detailed in the guidance.



Infection	Key points	Medicine	Doses	Length	Additional Comments
▼ Upper res	piratory tract infections				
	Use <u>FeverPAIN</u> * to assess symptoms: FeverPAIN 0-1 : no antibiotic; FeverPAIN 2-3: no or back-up antibiotic; FeverPAIN 4-5: immediate or back-up antibiotic. [*Fever in last 24 hours; Purulence; Attend rapidly under three days; severely inflamed tonsils: No courds or corvza 1	First choice: Phenoxymethylpenicillin	500mg QDS or 1000mg BD	5-10* days	*10 day course of penicillin or
		Penicillin allergy: Clarithromycin OR	500mg BD	5 -10* days	clarithromycin is needed only if
Acute sore throat		Erythromycin (preferred if	500mg QDS or	5 days	Streptococcus pyogenes (Grp
	Systemically very unwell or high risk of complications: immediate antibiotic.	pregnant)	1000mg BD		A Strep) is confirmed or strongly
	The vast majority of respiratory tract illness is self–limiting and it is recommended that the term "infection" is avoided. Cephalosporins are not appropriate as they do not penetrate lung tissue.				suspected; otherwise 5 days is sufficient
	Guidance about the management of Influenza can be accessed he	re:			
Influenza	Adult Treatment of Influenza				
Oo arlat farran	Prompt treatment with appropriate antibiotics significantly reduces	Phenoxymethylpenicillin	500mg QDS or 1000mg BD	10 days	
Scarlet fever (GAS)	the risk of complications. Vulnerable individuals (immunocompromised, those with comorbidities, or those with skin disease) are at increased risk of developing complications.	Penicillin allergy: Clarithromycin	500mg BD	10 days	
		Optimise analgesia and give safety netting advice			
	Regular paracetamol or ibuprofen for pain (right dose for age or	First choice: amoxicillin	500mg TDS	5 days	
Acute otitis media	weight at the right time and maximum doses for severe pain). Otorrhoea with infection in both ears: no, back-up or immediate antibiotic.	Penicillin allergy: doxycycline OR	200mg on day one, then 100mg OD	5 days in total	
	Otherwise: no or back-up antibiotic. Systemically very unwell or high risk of complications: immediate antibiotic.	Erythromycin (preferred if pregnant)	500mg QDS or 1000mg BD	5 days	

Infection	Key points	Medicine	Doses	Length	Additional Comments
	First line: analgesia for pain relief, and apply localised heat (such as a warm flannel).	Second line: topical acetic acid 2% OR	1 spray TDS	7 days	
	Second line: if no perforation, topical acetic acid or topical antibiotic +/- steroid: similar cure at 7 days.	Otomize Ear Spray	1 spray TDS	7 days	
	If cellulitis or disease extends outside ear canal, or systemic signs of infection, start oral flucloxacillin and refer to exclude malignant otitis externa.	Cellulitis: Flucloxacillin	1g QDS	7days	Topical acetic acid (2%) may
Acute otitis externa	These products should not be used in patients where a perforated tympanic membrane has been diagnosed or is suspected or where a tympanostomy tube (grommet) is in situ				also be used for chronic otitis externa
	If no response after 7 days, consider referral to ENT.	Penicillin allergy: Doxycycline	200mg on day		with itch.
	Remove hearing aids for duration if treatment if feasible (if not, ensure daily cleaning).		one, then 100mg OD	5 days in total	
	If fungal infection Clotrimazole 1% solution should be applied every 8-12 hours for at least 14 days after disappearance of infection.				
	First line: Advise paracetamol or ibuprofen for pain. Little evidence	Second line:	2 sprays every		
	that nasal saline or nasal decongestants help, but advise can be bought over the counter.	Beclomethasone 50mcg/dose nasal spray	12 hrs into each nostril		
	Symptoms for 10 days or less: no antibiotic.	Third line:	500mg QDS		
Sinusitis	Symptoms with no improvement for more than 10 days: no antibiotic or back-up antibiotic depending on likelihood of bacterial	Phenoxymethylpenicillin <i>OR</i>	or 1G BD	5 days	
Unitability	cause – suggested by purulent unilateral nasal discharge; severe unilateral pain; fever; marked deterioration after initial mild phase. Consider high-dose nasal corticosteroid.	Penicillin allergy: Doxycycline <i>OR</i>	200mg on day 1, then 100mg OD	5 days in total	
	Systemically very unwell or high risk of complications: immediate antibiotic.	Erythromycin (preferred if pregnant and allergic to penicillin)	500mg QDS or 1000mg BD	5 days	

Lower respiratory tract infections

Note: Low doses of penicillins are more likely to select for resistance. Do not use fluoroquinolones (ciprofloxacin) first line as they may have long-term side effects and there is poor anti-pneumococcal activity. Reserve all fluoroquinolones (including levofloxacin) for organisms resistant to other antibiotics – see <u>MHRA Safety Advice</u>.

For exacerbations of bronchiectasis, please refer to the ERF Guidance

		Doxycycline	200mg stat, then 100mg OD	5 days	
Acute	Treat with antibiotics only if purulent sputum and increased shortness	Amoxicillin	1g TDS		
exacerbation of COPD	of breath and/or increased sputum volume.	Allergy/Intolerance to doxycycline:	500mg BD 5 days	5 days	
		Clarithromycin			
		If clinical failure:	625mg TDS	5 days	
		Co-amoxiclav			
	Antibiotics of little benefit if no comorbidity.	Second line:	500mg TDS [*]		* higher dose
	First line: self-care and safety netting advice.	Amoxicillin			of amoxicillin (1g every 8
Acute cough	hospitalisation in past year; taking oral steroids; insulin-dependent diabetic; congestive heart failure; serious neurological disorder/stroke			-	hours) may be
and bronchitis		Penicillin allergy or no	200mg stat	5 days	required for haemophyllus
		response to amoxicillin: Doxycycline	then 100mg OD		infections, consult any susceptibility
	or >65 years with 2 of the above.				reports

Community- acquired pneumonia	Use CRB65 score to guide mortality risk, place of care, and antibiotics. Each CRB65 parameter scores one: C onfusion (AMT<8 or new disorientation in person, place or time); R espiratory rate >30/minute; B P systolic <90, or diastolic <60; age >65. Score 0: low risk, consider home-based care;	CRB65 = 0 and 1-2 if to be treated at home: Doxycycline <i>OR</i>	200mg stat then 100mg OD		
	such as cough up to 6 weeks. Clinically assess need for dual therapy for atypicals. Mycoplasma	Amoxicillin*	500mg TDS		*higher dose of amoxicillin (1g every 8 hours) may be required,
	 infection is rare in over 65s. iHypoxia is also an indicator for admission. Aim for > 94%, or if at risk of hypercapnic respiratory failure, 88-92%. Pneumonia with or following influenza may be due to Staph aureus and should be treated accordingly. Doxycycline, clarithromycin, co-trimoxazole or co-amoxiclav may be considered. 	Allergy/Intolerance to doxycycline: Clarithromycin	500mg BD		consult any susceptibility reports
	Co-amoxiclav should be avoided in the over 65 age group when possible. If admission is delayed or illness appears life-threatening, and no known penicillin allergy, give immediate antibiotics.	MRSA Chest Infection: Doxycycline	100mg BD		

Urinary tract infections

antibiotics for cath JTI. See local g a	neter change unless there is a history of catheter-change-associated UTI c <i>uidance</i> :	r trauma. Take sample if nev	w onset of deliriun	n, or one or more sympto	
Antibiotic choice	e should be as per upper or lower UTI in non-catheterised patients	Non-pregnant women first choice: Nitrofurantoin* OR Trimethoprim **(if low risk of resistance)	100mg m/r BD 200mg BD	3 days 3 days	
	Advise paracetamol or ibuprofen for pain. Refer to prescribing notes in formulary for full guidance on choice. Non-pregnant women: back up antibiotic (to use if no improvement in 48 hours or symptoms worsen at any time) or immediate antibiotic. Pregnant women and men : immediate antibiotic When considering antibiotics, take account of severity of symptoms, risk of complications, previous urine culture and susceptibility results, previous antibiotic use which may have led to resistant bacteria and local antimicrobial resistance data. *Do NOT prescribe Nitrofurantoin unless eGFR ≥45 ml/minute **Consult Trimethoprim SPC if eGFR <30ml/minute for dose adjustment	Cefalexin***	500mg BD	3 days	
		Pregnant women first choice: Nitrofurantoin* (avoid at term)	100mg m/r BD	7 days	
Lower urinary tract infection		Pregnant women second choice: Cefalexin	500mg BD	7 days	
		Pregnant women third choice: Amoxicillin(only if culture results available and susceptible)	500mg TDS	7 days	
		Treatment of asymptomatic bacteriuria in pregnant women : choor from Nitrofurantoin (avoid at term), Amoxicillin or Cefalexin based on culture and susceptibility results			
		Men first choice: Trimethoprim** <i>OR</i>	200mg BD	7 days	
		Nitrofurantoin *	100mg m/r BD	7 days	

Acute pyelonephritis (upper urinary tract)	If evidence of systemic infection e.g. fevers, rigors, loin pain, vomiting, consider hospital assessment. Advise paracetamol (+/- low-dose weak opioid) for pain. Offer an antibiotic. When prescribing antibiotics, take account of severity of symptoms, risk of complications, previous urine culture and susceptibility results, previous antibiotic use which may have led to resistant bacteria and local antimicrobial resistance data. * NB if co-trimoxazole is an unsuitable empirical choice and there are no previous isolates for guidance consider using ciprofloxacin review MHRA Safety Advice before prescribing.	Non-pregnant women and men first choice: Co-trimoxazole Co-amoxiclav (if known renal impairment or trimethoprim intolerance) <i>OR</i> Ciprofloxacin* (if neither of the above are suitable; consider safety issues) Pregnant women first	960mg BD 625mg TDS 500mg BD	7 days 7 days 7 days	For dosing in renal impairment see SPC at <u>EMC</u>
		choice: Cefalexin			Discuss with obstetrics
Recurrent urinary tract infection	A recurrent UTI is defined as two positive MSU in last 6 months or three positive MSU in last 12 months. If MSU is not possible then ALL of the symptoms (frequency, dysuria, urgency +/- bladder pain and prompt resolution with antibiotics).				
	Advise simple measures including hydration and analgesics. Try additional steps (see <u>ERF Guidance for Recurrent UTI</u> for full details). When ongoing UTI recurrent then consider post trigger treatment doses, self-start antibiotics (3 day course depending on recent sensitivities or short term prophylaxis).				
Acute prostatitis	Advise paracetamol (+/- low-dose weak opioid) for pain, or ibuprofen if preferred and suitable. Review <u>MHRA Safety Advice</u> before prescribing.	Ciprofloxacin	500mg BD	14 days	Reassess at 14 days, if
	Offer antibiotic. Refer to <u>NICE Guideline NG110</u> – Prostatitis (acute): antimicrobial prescribing. Send MSU for culture and start treatment	If culture shows sensitivity: Trimethoprim	200mg BD	14 days	symptoms completely resolved stop otherwise complete 28 days total.

Meningitis					
Suspected meningococcal	Transfer all patients to hospital immediately. If time before hospital admission, and non-blanching rash, give IV or IM benzylpenicillin or IV or IM cefotaxime. If definite history of	IV or IM Benzylpenicillin <i>OR</i>	Adult/child 10+ years: 1.2g	Stat dose;	
disease	 anaphylaxis giving penicillin or an alternative antibiotic may carry increased risk of anaphylactic reactions. Patients with mild allergy (i.e. rash, not anaphylaxis) may be given cefotaxime. Prescribe secondary prevention only following advice from your local health protection specialist/consultant 	IV or IM Cefotaxime	IV: 1g IM: 1g	give IM, if veir accessed	n cannot be
▼ Gastrointe	stinal tract infections				
	miconazole with warfarin. Oral candidiasis is rare in immunocompetent adults; consider undiagnosed risk factors, including HIV. *Use 50mg fluconazole if extensive/severe candidiasis. For first occurrence in HIV or other immunocompromise, use 100mg fluconazole. Treat for 7 days initially and further 7 days if symptoms persist; for recurrent or severe disease in these patients,	First line: Nystatin suspension	1ml; 100,000units / mL QDS (half in each side)	7 days; continue for 2 days after resolved	
Oral candidiasis		Second line: Miconazole oromucosal gel sugar free	2.5ml of 20mg/g QDS (hold in mouth after food)	7 days; continue for 7 days after resolved	
		Fluconazole capsules*	50mg/100mg OD	7 to 14 days	
Infectious diarrhoea	Antibiotic therapy is not usually indicated unless patient is system	nically unwell.		1	
H. pylori eradication	See <u>ERF Gastrointestinal Chapter</u> for eradication regimes.				
Clostridium difficile	For full information see <u>Health Protection Scotland guidance</u> . Patients identified as <i>C. difficile</i> cases should be fully assessed by a doctor. Review need for currently prescribed antibiotics, PPIs, laxatives, and antimotility agents - discontinue use where possible. Asymptomatic patients may not require treatment.	First episode (non severe): Metronidazole	400mg TDS	10 days	If no better at day 5, change to vancomycin for another 10 days

	If severe (T>38.5, WCC>15, creatinine rising acutely or > 1.5x baseline, or signs/symptoms of severe colitis such as blood / mucus in stool or abdominal distension, acute abdomen or evidence of dehydration : treat with oral vancomycin, review progress closely, and consider hospital referral. Treat immunocompromised patients as severe cases. Recurrent or severe cases should be discussed with Microbiology. Clearance samples should not be sent.	Severe, recurrent or in metronidazole intolerance / pregnancy / breastfeeding: oral Vancomycin	125mg QDS	10 days	
Mild	Uncomplicated acute diverticulitis may respond to analgesia and	First Line: Cotrimoxazole <i>PLUS</i> Metronidazole	960mg BD 400mg TDS	_ 5 days	
Diverticulitis	dietary modification.	If renal impairment: Doxycycline PLUS Metronidazole	100mg BD 400mg TDS		
Giardiasis	Recurrence of giardiasis is high even with optimal treatment, therefore follow-up with a stool sample is advised.	Metronidazole	5x400mg OD OR	3 days	
			400mg TDS	5 days	
Traveller's	Prophylaxis rarely, if ever, indicated. Consider standby antimicrobial	Standby: Azithromycin (private prescription)	500mg OD	3 days	
diarrhoea	only for patients at high risk of severe illness, or visiting high-risk areas.	Prophylaxis/treatment: Bismuth subsalicylate	2 tablets QDS	2 days	
Threadworm	Treat all household contacts at the same time. Advise hygiene measures for 2 weeks (hand hygiene; pants at night; morning shower, including perianal area). Wash sleepwear, bed linen, and dust and vacuum.	>6 months: <u>Mebendazole</u>	100mg stat	1 dose; repeat in 2 weeks if persistent	
	d inten, and dust and vacuum. <6 months, add perianal wet wiping or washes 3 hourly.	<6 months or pregnant (a only hygiene measures for	ster):		
Genital tract in	nfections				
	STI's are conditions that may indicate HIV infection. Please offer an HI	V test in line with national gu	idance (see <u>BHIV</u>	A GUIDELINES)	
Chlamydia trachomatis/	Opportunistically screen all patients aged 15–24 years. Treat partners and refer to GUM. Test positives for reinfection at 3 months.	First line: Doxycycline <i>OR</i>	100mg BD	7 days	

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urethritis	Refer to <u>BASHH Guidelines</u> for further information. Pregnant/breastfeeding: azithromycin is most effective option. Do not prescribe doxycycline in pregnancy. Seek advice from GUM regarding test of cure for pregnant women.	If doxycycline contraindicated/not tolerated /Pregnant: Azithromycin	1000mg stat, the for 2 further days	
Genital Warts	Podophyllotoxin is contra-indicated in pregnancy. For small numbers of discrete warts use liquid nitrogen administered every 2-3 weeks. Repeat podophyllotoxin treatment weekly if necessary for 4-5 courses depending on product used.	Podophyllotoxin 0.5% soln or 0.15% cream	Applied every 12 hours	3 days
Epididymo-	Send an MSU in all patients and consider a urine NAAT to exclude chlamydia and/or gonorrhoea - consider referral to GUM for full	STI suspected: Doxycycline	100mg BD	14 days
orchitis	assessment.In patients with no sexual risk factors, older patients, or catheter in situ treatment choice is based on urine culture, see formulary for more information. Review <u>MHRA Safety Advice</u> before	UTI cause suspected Trimethoprim OR	200mg BD	14 days
	prescribing Ofloxacin.	Ofloxacin	200mg BD	14 days
Vaginal candidiasis	There is no evidence that treating the partner of women suffering from candidiasis is helpful.	First line: oral Fluconazole	150mg	Stat
	Patients who are inserting intravaginal cream or pessaries into the vagina, may also apply topical clotrimazole cream to the vulva.	Second line/Pregnancy: Clotrimazole	500mg to be inserted vaginally at night	for 1 night
Bacterial	Oral <u>metronidazole</u> is as effective as topical treatment, and is cheaper.	Oral Metronidazole OR	400mg BD OR 2000mg	7 days OR Stat
vaginosis	7 days results in fewer relapses than 2g stat at 4 weeks. Pregnant/breastfeeding: avoid 2g dose. Treating partners does not reduce relapse.	Metronidazole 0.75% vaginal gel OR	5g applicator at night	5 nights
		Clindamycin 2% vaginal cream	One applicatorful daily at night	7 nights
Gonorrhoea	Refer to GUM.			
		Doxycycline	100mg BD	7 days
Nonspecific urethritis (NSU)	If first episode of NSU, refer to sexual health service. Avoid doxycycline in pregnancy.	If doxycycline contraindicated/not tolerated /Pregnant: Azithromycin	1g (4 x 250mg) s followed by 500r days	
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Genital herpes	 Advise: saline bathing, analgesia, or topical lidocaine for pain, and discuss transmission. First episode: treat within 5 days if new lesions or systemic 	Oral Aciclovir	400mg TDS	5 days
Containorpoo	symptoms, and refer to GUM. Recurrent: self-care if mild, or initiate aciclovir 800mg TDS -		800mg TDS (if recurrent)	2 days
	treatment is symptom driven see <u>BASHH Guidelines</u> ; review patient regularly and refer to GUM if necessary.			
			400mg BD OR	7 days
Trichomoniasis	Oral treatment needed as extravaginal infection common. Treat partners, and refer to GUM for other STIs. Pregnant/breastfeeding: avoid 2g single dose <u>metronidazole</u> ;	Metronidazole	2g (more adverse effects)	Stat
	clotrimazole for symptom relief (not cure) if metronidazole declined.	Pregnancy to treat symptoms: Clotrimazole	100mg pessary at night	6 nights
Pelvic	Refer women and sexual contacts to GUM.	Metronidazole AND	400mg BD	14 days
inflammatory disease	Test for gonorrhoea and chlamydia. If gonorrhoea likely (partner has it; sex abroad; severe symptoms) then refer to GUM for treatment.	Doxycycline	100mg BD	14 days
	soft tissue infections		· .	
Note: Refer to <u>RCGI</u>	<u>P Skin Infections</u> online training. For MRSA, check sensitivities and if necessary, o		gist.	r
	 Topical antiseptic (Crystacide) should be used for localised lesions only. Reserve topical antibiotics for very localised lesions to reduce risk of bacteria becoming resistant. Only use mupirocin if caused by MRSA. Extensive, severe, or bullous: oral antibiotics. 	Crystacide 1% OR Topical Fusidic acid	Thinly TDS	5 days
Impetigo		If MRSA: topical Mupirocin	2% ointment TDS	5 days
		More severe: oral Flucloxacillin	1g QDS	5 days
		Penicillin allergy: oral Clarithromycin	500mg BD	7 days
Diabetic Foot infection	All diabetic patients with active ulceration <u>must</u> be referred as an emergency to a member of the multidisciplinary foot team.	Refer to " <u>Diabetic Foot Guidance</u> "		
Leg ulcer	Ulcers are always colonised. Antibiotics do not improve healing unless active infection (only consider if purulent exudate/odour; increased pain; cellulitis; pyrexia).	As for cellulitis.		

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Acne	Refer to ERF Chapter on Skin				
Eczema	Topical antibiotics (eg Fucidin [®]) are not recommended as they encoura as for impetigo.	age resistance and do not im	prove healing. If v	isisble signs of i	nfection, treat
		Flucloxacillin*	1g QDS		
Cellulitis and erysipelas	Afebrile and healthy other than cellulitis: use oral flucloxacillin alone. If river or sea water exposure: seek advice from Microbiology.	Penicillin allergy: Doxycycline	100mg BD	5 days	* If slow response,
	Febrile and systemically unwell: admit for possible IV treatment, Erysipelas: often facial and unilateral. Use flucloxacillin for non-facial erysipelas.	If allergic to / intolerant of Doxycycline: Clarithromycin	500mg BD		continue for a further 5 days
	Orbital or preseptal cellulitis should be urgently assessed in hospital.	Facial: Co-amoxiclav	625mg TDS	-	
Bites	Human: thorough irrigation is important. Antibiotic prophylaxis is advised. Assess risk of tetanus, rabies, HIV, and hepatitis B and C.	Prophylaxis/treatment all: Co-amoxiclav	625mg TDS	3 days prophylaxis; 5 days treatment	
	Cat: always give prophylaxis.	Penicillin allergy :			
	ising the second in a second second single time and second s	Metronidazole PLUS	400mg TDS		
		Doxycycline	100mg BD		
	Penicillin allergy : Review all at 24 and 48 hours, as not all pathogens are covered.				
	First choice permethrin: Treat whole body from ear/chin	Permethrin	5% cream		
Scabies	 downwards, and under nails. If using permethrin and patient is under 2 years, elderly or immunosuppressed, or if treating with malathion: also treat face and scalp. Home/sexual contacts: treat within 24 hours. 	Permethrin allergy: Malathion	0.5% aqueous liquid	2 applications, 1 week apart	
Mastitis	S. aureus is the most common infecting pathogen. Suspect if woman	Flucloxacillin	1g QDS	10–14 days	
	has: a painful, tender or red breast; fever and / or general malaise. Request input from Breast surgery if not resolving.	Penicillin allergy: Erythromycin OR	500mg QDS		
	Breastfeeding: oral antibiotics are appropriate, where indicated. Women should continue feeding, including from the affected breast.	Clarithromycin (not if breastfeeding)	500mg BD	-	

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	 Most cases: use terbinafine as fungicidal, treatment time shorter than with fungistatic imidazoles. If candida possible, use clotrimazole 1% cream. If intractable, or scalp: send skin scrapings, and if infection confirmed: use oral terbinafine or itraconazole (see BNF). Scalp: oral therapy, and discuss with specialist. 	Topical Terbinafine 1% OR	OD-BD	1- 4weeks, continue for 1-2 weeks after healing	
Dermatophyte infection: skin		Topical Clotrimazole 1%	2-3 times daily	Continue for 1-2 weeks after healing (usually 4-6 weeks).	
		Severe athlete's foot: Topical 1% Terbinafine	OD-BD	7 days	
Dermatophyte infection: nail	 Take nail clippings; start therapy only if infection is confirmed. Oral terbinafine is more effective than oral azole. Liver reactions 0.1 to 1% with oral antifungals. If candida or non-dermatophyte infection is confirmed, use oral itraconazole. Topical nail lacquer is not as effective. To prevent recurrence: apply weekly 1% topical antifungal cream to entire toe area. Children: seek specialist advice. 	First line: Terbinafine	250mg OD	Fingers: 6 weeks Toes: 12 weeks	Stop treatment
		Second line: Itraconazole	200mg BD	1 week a month Fingers: 2 courses Toes: 3 courses	when continual, new, healthy, proximal nail growth.
Varicella zoster/ chickenpox	 Pregnant / immunocompromised / neonate: seek urgent specialist advice. Chickenpox: consider aciclovir if: onset of rash <24 hours, and 1 of the following: >14 years of age; severe pain; dense/oral rash; taking steroids; smoker. Give paracetamol for pain relief. 	First line for chicken pox and shingles: Aciclovir	800mg 5 times daily	7 days (In immune compromised patients, continue for at least 48	

Herpes zoster/ shingles	Shingles: Treat > 50 years old, age less than 50 years with any of the following criteria: Immunocompromised, non-truncal involvement (such as shingles affecting the neck, face, limbs or perineum), involvement of multiple dermatomes, eczema, moderate or severe pain, moderate or severe rash, seek immediate specialist advice regarding antiviral treatment for people with ophthalmic involvement; severely immunocompromised people; immunocompromised people who are systemically unwell, or have a severe or widespread rash or multiple dermatomal involvement; immunocompromised children; or pregnant or breastfeeding women. These are conditions that may indicate HIV infection. Please offer an HIV test in line with national guidance (see <u>BHIVA GUIDELINES</u>)	Second line (shingles): Valaciclovir	1g TDS	hrs after crusting of lesions)	
Lyme disease	Diagnosis and management of Lyme disease				
▼ Eye infect	ions				
Conjunctivitis	 First line: bath/clean eyelids with cotton wool dipped in sterile saline or boiled (cooled) water, to remove crusting. Treat only if severe, as most cases are viral or self-limiting. Bacterial conjunctivitis: usually unilateral and also self-limiting. It is characterised by red eye with mucopurulent, not watery discharge. 65% and 74% resolve on placebo by days 5 and 7. Third line: fusidic acid as it has less gram-negative activity. 	Second line: Chloramphenicol 0.5% eye drop <i>OR</i> 1% ointment	Drops:2 hourly for 2 days, then up to 4 times a day. Ointment: up to 4 times daily, or just at night if drops used during day.	Course length up to 1 week, continue for 48 hours after resolution.	
		Third line: Fusidic acid 1% gel	BD		
	Refer to community optometrist for ongoing treatment (see ERF for additional information). Corneal abrasions may be treated with chloramphenicol eye ointment	Chloramphenicol 1% eye ointment With or without	6-8 hourly	for 3-7 days	Frequency and duration
Corneal Abrasions	+/- lubricants. Optional lubricating ointment (e.g. Xailin Night) may be added in-between, i.e. alternating with the chloramphenicol.	Xailin Night eye ointment preservative free			is guided by severity and response to treatment
Ophthalmic zoster	Treat with oral aciclovir with or without ganciclovir eye gel. Ganciclovir used where on examination there is ocular epithelial	Aciclovir with /without	800mg 5 times daily	for 7 days	

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	involvement. Oral aciclovir should be prescribed immediately for ophthalmic zoster. During treatment with ganciclovir eye gel, women of childbearing age should use effective contraception, and men with partners of childbearing age should be advised to use barrier contraception during and for at least 90 days after treatment. This is a condition that may indicate HIV infection. Please offer an HIV test in line with national guidance (see <u>BHIVA GUIDELINES</u>)	Ganciclovir 0.15% eye gel	Apply 5 times a day until healed, then 3 times a day for further 7 days	Treatment does not usually exceed 21 days
Blepharitis	 First line: lid hygiene for symptom control, including: warm compresses; lid massage and scrubs ;gentle washing; avoiding cosmetics. Second line: topical antibiotics if hygiene measures are ineffective after 2 weeks. 	Second line: topical Chloramphenicol	1% ointment BD	6-week trial
		Third line: Doxycycline (unlicenced)	100mg OD	2-3 months
	Signs of meibomian gland dysfunction, or acne rosacea: consider oral antibiotics.			
▼ Dental In	fections			
	Dental Clinical Effectiveness Programme - SDCEP. Patients presenting to tist, or if this is not possible, to the NHS 111 service who will be able to pro			