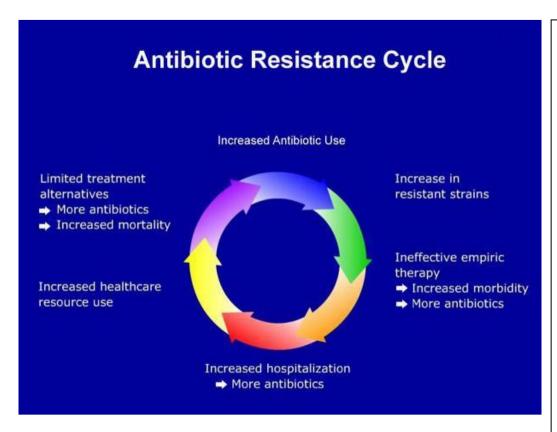




North East London (NEL) Management of Infection Guidance for Primary Care

Adapted from the Public Health England (PHE) and National Institute for Health and Care Excellence (NICE) Management of infection guidance. For primary care use across the East London Health and Care Partnership (ELHCP)



https://asweknowitlife.wordpress.com/2012/12/04/antibiotic-resistance-cycle/

Updated: February 2023

Date of review: February 2024, or sooner if required

Version: 1.6

These guidelines have been developed in collaboration with:

- North East London Clinical Commissioning Group (NEL CCG)
- Barking, Havering and Redbridge University NHS Trust (BHRuT) Microbiology team
- Barts Health NHS Trust Microbiology teams
- Homerton University Hospital NHS Foundation Trust Microbiology team (HUHFT)
- NHS North East London Foundation NHS Trust (NELFT)
- NHS East London Foundation Trust (ELFT)

The guideline review group has involved a range of healthcare professionals including GPs, Microbiologists/Infectious disease consultants, Primary Care Pharmacists, Prescribing Advisors, and Antimicrobial Pharmacists. Advice has also been sought from local dermatologists, obstetricians and gastroenterologists where appropriate.

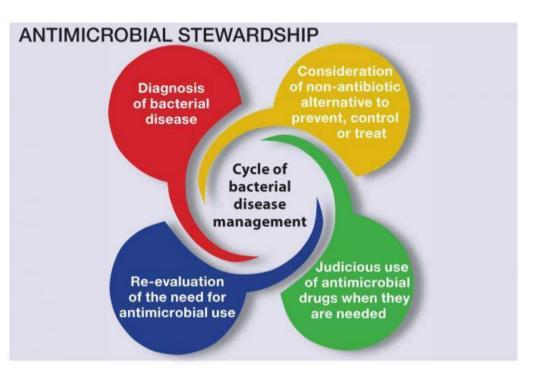
The development and maintenance of this guideline is a key function of the North East London Antimicrobial Resistance Strategy Group (NEL AMRSG), which is a local collaboration of health and social care partners.





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Organisations who have adopted this document	Date ratified by organisation
North East London Formulary and Pathways Group (Chair Person's action)	
*Endorsed by North East London Antimicrobial Resistance Strategy Group (NEL AMRSG)	





Guideline Statement

These guidelines are to be read in conjunction with current guidance from NICE and PHE, other national bodies (e.g. BASHH – British Association for Sexual Health and HIV), relevant NICE Clinical Knowledge Summaries (CKS) and resources from the RCGP TARGET Toolkit. Evidence-based antimicrobial prescribing is essential to begin to address the challenge of increasingly antibiotic-resistant bacteria, and the rise in health care acquired infections. The Health and Social Care Act 2008 (updated 2011) introduces the Code of Practice for the Prevention and Control of HealthCare Associated Infections, also known as the Hygiene Code. This Code requires all health care organisations to have a policy in place on antimicrobial prescribing, in order to reduce the incidence and prevalence of Health Care Associated Infections (HCAI). Where possible, treatment is based on national guidance (Public Health England: Management of infection guidance for primary care for consultation and local adaptation). Local adaptation has been applied where required on advice of the local acute trusts department of infection, based on local sensitivities and resistance patterns.

Infections account for a large proportion of the acute workload seen in general practice and cause considerable patient distress. The prescriber is sometimes put under pressure to prescribe by patients who perceive that antibiotics will provide quick resolution, particularly if they are under pressure to return to work.

However, the evidence to support antibiotic treatment is often weak or lacking, and certain illnesses can be self-limiting. Good communication between the prescriber and patient, with adequate time given to the consultation, is known to bring about more selective and appropriate prescribing

Aims and Objectives of the Guidance

The aims are to:

- Support the rational, safe and cost-effective use of antibiotics by selecting the best approach to managing common infections from the evidence available.
- Promote the selective use of antibiotics to reduce the emergence of antimicrobial resistance in the community.
- Empower patients with information and support mechanisms so they can cope with their infection.

The objectives are to:

- Assist prescribers in managing individuals with infections by providing clear information on the likely clinical outcome with or without treatment and to indicate possible risk.
- Help the prescriber decide whether or not antibiotic treatment is indicated and which antibiotic is the most appropriate.

This guidance should always be applied in conjunction with clinical judgement and consideration of important individual case factors including allergy, pregnancy, drug interactions and drug safety advice from the MHRA. The recommendations apply only in the absence of contra- indications. Please refer to the latest BNF, BNFc or Summary of Product Characteristics (SmPC) for further information









Antimicrobial prescribing guidance – managing common infections

- For all PHE guidance, follow PHE's principles of treatment
- See BNF for appropriate use and dosing in specific populations. for example, hepatic impairment, renal impairment, pregnancy and breastfeeding.

Medical Statement of the Statement of th	In the second se	Click symbols to access doses for children
Key		Click to access NICE's printable visual summary

The strength of each PHE recommendation is qualified by a letter in parenthesis. This is an altered version of the grading recommendation system used by SIGN

STUDY DESIGN	RECOMMENDATION GRADE
Good recent systematic review and meta- analysis of studies	A+
One or more rigorous studies; randomised controlled trials	Α-
One or more prospective studies	B+
One or more retrospective studies	B-
Non-analytic studies, for example case reports or case series	С
Formal combination of expert opinion	D

Abbreviations

BD, twice a day; eGFR, estimated glomerular filtration rate; IM, intramuscular; IV, intravenous; MALToma, mucosa-associated lymphoid tissue lymphoma; m/r, modified release; MRSA, methicillin-resistant Staphylococcus aureus: MSM, men who have sex with men; stat, given immediately; OD, once daily; TDS, 3 times a day; QDS, 4 times a day.

Treating Penicillin-allergic Patients:

These Antibiotic Guidelines contain alternative empirical treatment options for indications in which penicillins are the first-line choice. The table below illustrates the Antibiotic allergy traffic light system, which is employed throughout these guidelines (please note this list is not exhaustive).

Contra-indicated

Antibiotics to be avoided in penicillin allergy:

Caution

Avoid if serious Type 1 penicillin allergy (e.g.anaphylaxis / angiodema)

Use with caution if non-severe allergy (e.g. minor rash)

- Amoxicillin
- Ampicillin (in Co-fluampicil)
- ·Benzylpenicillin/Penicillin G
- ·Co-amoxiclav
- ·Flucloxicillin (in Co-fluampicil)
- Phenoxymethylpenicillin/Penicillin V
- ·Piperacillin (in Tazocin)
- Pivmecillinam
- Ticarcillin (in Timentin)

Cephalosporins:

Cefaclor, Cefadroxil, Cefalexin, Cefixime, Cefotaxime, Cefpirome, Cefpodoxime, Cefprozil, Cefrandine, Ceftazidime, Ceftriaxone, Cefuroxime

- Other Beta-lactam antibiotics: Aztreonam, Imipenem, meropenem, ertapenem
- Note: risk of allergic reaction is greater in βlactams most similar to penicillin's in underlying structure

Considered Safe

- Amikacin
- Ciprofloxacin
- · Clarithromycin
- Clindamycin
- Colistin
- Co-trimoxazole
- Doxycycline
- Erythromycin
- Gentamicin
- Linezolid

- Metronidazole
- Nitrofurantoin
- Minocycline
- Rifampicin
- Sodium fusidate
- Teicoplanin
- Tetracycline
- Tobramycin
- Trimethoprim
- Vancomycin





Infection	Key points	Medicine	Doses		Length	Visual
IIIIection			Adult	Child	Length	summary
▼ Upper	respiratory tract infections					
Acute sore	Advise to purchase OTC, paracetamol, or if preferred and suitable, ibuprofen for pain.	First choice: phenoxymethylpenicillin	500mg QDS or 1000mg BD		5 to 10* days	
throat	OTC Medicated lozenges may help pain in adults. Use <u>FeverPAIN</u> or <u>Centor</u> to assess symptoms:	Penicillin allergy: clarithromycin OR	250mg to 500mg BD		5 days	
NICE	FeverPAIN 0-1 or Centor 0-2: no antibiotic; FeverPAIN 2-3: no or back-up antibiotic; FeverPAIN 4-5 or Centor 3-4: immediate or back-up antibiotic.	erythromycin (preferred if pregnant) (erythromycin or clarithromycin only	250mg to 500mg QDS or 500mg to 1000mg BD	The second	5 days	See trace local prescribed prombing at 1
Public Health	Systemically very unwell or high risk of complications: immediate antibiotic.	needed for 5 days as they have a broader spectrum of		Mary Service S		The state of the s
England	Avoid broader-spectrum penicillins (e.g. amoxicillin) for the empirical treatment of sore throat.	activity than phenoxymethylpenicillin and more likely to drive				
Last updated: Feb 2023	*5 days of phenoxymethylpenicillin may be enough for symptomatic cure; but a 10-day course may increase the chance of microbiological cure.	bacterial resistance)				
	For detailed information click the visual summary icon.					
Influenza	Annual vaccination is essential for all those 'at r Treat 'at risk' patients with 5 days oseltamivir 75mg for zanamivir treatment in children), 1D,3D or in a care	BD,1D when influenza is circula	ating in the community, a			onset (36 hours
Public Health England Last updated:	At risk: pregnant (and up to 2 weeks post-partum); asthma); significant cardiovascular disease (not hypmellitus; morbid obesity (BMI>40). 4D See the PHE Ir oseltamivir resistance, use zanamivir 10mg BD5A+,6A	pertension); severe immunosup o <mark>fluenza</mark> guidance for the treat	opression; chronic neuro ment of patients under 1	logical, re 3 years.4	nal or liver disease; In severe immunos	diabetes
Feb 2019	Access supporting evidence and rationales on the PHE w	<u>rebsite</u> .				
Scarlet fever (GAS)	Guidance is available from appendix 1 of the <u>UKHS</u> other childcare settings.	A guidelines for the public hea	Ith management of scar	let fever o	utbreaks in schools	nurseries and
Public Health England Last updated:	Scarlet fever is a <u>notifiable disease</u> , health profession			ected cas	ses.	
Feb 2023	 North East and North Central London Health Pro Daytime Tel: 020 3837 7084 (option 2 for 	•	iuiiibers:			
	 For Out of Hours Advice: Tel: 0151 909 1 Email: necl.team@ukhsa.gov.uk; phe.nenclhpt 	215 (between 5pm and 9am a				





Infection	Key points	Medicine	Doses		Length	Visual	
IIIIection			Adult	Child	Lengui	summary	
Acute otitis	Regular paracetamol or ibuprofen for pain (right	First choice: amoxicillin	-		5 to 7 days		
media	dose for age or weight at the right time and maximum doses for severe pain).	Penicillin allergy: clarithromycin OR	-		5 to 7 days		
NICE	Consider ear drops containing an anaesthetic and an analgesic (Otigo (lidocaine hydrochloride, phenazone) 40 mg/10 mg/g) for pain if an immediate antibiotic is not given and there is no	erythromycin (if macrolide needed in pregnancy; consider benefit/harm)	-	The MANAGEMENT		Oritis media locately antimicrobial greecribing wcc	
Public Health	ear drum perforation or otorrhoea.	Second choice: co-	-	Security of the second of the	5 to 7 days	- Control of the Cont	
England	Otorrhoea or under 2 years with infection in both ears: no, back-up or immediate antibiotic.	amoxiclav				The state of the s	
Last updated: Mar	Otherwise: no or back-up antibiotic.						
2022	Systemically very unwell or high risk of						
	complications : immediate antibiotic. For detailed information click on the visual summary.						
	First line: Advise to purchase OTC analgesia for	Second line:					
Acute otitis	pain relief, 1D,2D and apply localised heat (such as a warm flannel).2D	OTC (>12yrs) topical acetic acid 2% ^{2D,4B-} OR	1 spray TDS ^{5A-}	BNF for children	7 days ^{5A}		
externa	Second line: OTC topical acetic acid (>12yrs)	topical neomycin sulphate				Not available. Access	
Public Health	e.g. EarCalm spray OR topical antibiotic +/- steroid e.g. betamethasone 0.1% neomycin	with corticosteroid ^{2D,5A}		BNF	7 days (min) to	supporting	
England	(Betnesol N drops) or Otomize Spray: similar cure at 7 days. ^{2D,3A+,4B-}	perforated tympanic			for children	14 days (max) ^{3A+}	evidence and rationales on the PHE
Last updated:	If cellulitis or disease extends outside ear	membrane) ^{6B-}	250mg QDS ^{2D}			<u>website</u>	
Nov 2017	canal, or systemic signs of infection, swab ear, start oral flucloxacillin and refer to exclude	If cellulitis:	If severe: 500mg	BNF for children	7 days ^{2D}		
	malignant otitis externa. ^{1D}	flucloxacillin ^{7B+}	QDS ^{2D}	for children	, dayo		
Sinusitis	Advise to purchase OTC paracetamol or ibuprofen for pain. Little evidence that nasal saline or nasal decongestants help, but people may want to try them OTC.	First choice: phenoxymethylpenicillin	500mg QDS	The second secon	5 days	Search (seate) orderivately prescribing with the contract of t	
NICE	Symptoms for 10 days or less: no antibiotic.	Penicillin allergy:		The state of the s			
MICL	Symptoms with no improvement for more than 10 days: no antibiotic or back-up antibiotic depending on likelihood of bacterial cause.	doxycycline (not in under 12s) OR	200mg on day 1, then 100mg OD		5 days	See Self Self Self Self Self Self Self S	
	depending on likelihood of pacterial cause.	clarithromycin OR	500mg BD				





Infection	Key points	Medicine	Doses		Length	Visual	
mection			Adult	Child	Lengin	summary	
Public Health England	Consider high-dose nasal corticosteroid (if over 12 years).	erythromycin (preferred if pregnant)	250 to 500mg QDS or 500 to 1000mg BD				
Last updated: Oct 2017	Systemically very unwell or high risk of complications: immediate antibiotic. For detailed information click on the visual summary.	Second choice or first choice if systemically very unwell or high risk of complications: co-amoxiclav	500/125mg TDS		5 days		
▼ Lower i	respiratory tract infections						
COVID-19	Antibiotics should not be used for preventing or treaton suspected or confirmed co-infection. Do not use azithromycin to treat COVID-19.	ating COVID-19 unless there is	clinical suspicion of add	itional bad	cterial co-infection. Se	ee the <u>section</u>	
	Do not use doxycycline to treat COVID-19 in the	community.					
NICE	Do not offer an antibiotic for preventing secondary	bacterial pneumonia in people	with COVID-19.				
	If a person in the community has suspected or confacquired pneumonia for choices.	irmed secondary bacterial pne	umonia, start antibiotic tr	eatment a	as soon as possible, s	see community-	
Last updated: November 2021	In hospital, start empirical antibiotics if there is clinic pneumonia for choices. Start antibiotics as soon as 4 hours. Start treatment within 1 hour if the person sepsis. For detailed information, see the NICE guid	possible after establishing a di has suspected sepsis and mee	iagnosis of secondary ba	acterial pn	eumonia, and certain	ly within	
Acute exacerbation of COPD	Many exacerbations are not caused by bacterial infections so will not respond to antibiotics. Consider an antibiotic, but only after considering	First choice: amoxicillin OR	500mg TDS (see BNF for severe infection)	-			
COPB	severity of symptoms (particularly sputum colour changes and increases in volume or thickness), need for hospitalisation, previous exacerbations, hospitalisations and risk of complications,	doxycycline OR	200mg on day 1, then 100mg OD (see BNF for severe infection)	-	5 days	COOD laster excendaring artification preceding. MCI con-	
	previous sputum culture and susceptibility results,	clarithromycin	500mg BD	-	-	Factor Collection - Collection Collection -	
NICE	and risk of resistance with repeated courses.	Second choice: use alternative first choice					
Public Health England Last updated:	Some people at risk of exacerbations may have antibiotics to keep at home as part of their exacerbation action plan. For detailed information click on the visual summary.	Alternative choice (if person at higher risk of treatment failure): co-amoxiclay OR	500/125mg TDS	-	5 days		
Dec 2018	See also the NICE guideline on COPD in over 16s.	co-trimoxazole OR	960mg BD	-	-		
				1	I	1	





Infection	Key points	Medicine	Doses		Length	Visual
miection		Wiedicine	Adult	Child	Lengui	summary
Acute exacerbation of COPD cont		levofloxacin (with specialist advice if co-amoxiclav or co-trimoxazole cannot be used; consider safety issues)	500mg OD	-		
		IV antibiotics (specialist onl	у)			
Acute exacerbation of bronchiectasis (non-cystic	Send a sputum sample for culture and susceptibility testing. Offer an antibiotic.	First choice empirical treatment: amoxicillin (preferred if pregnant) OR	500mg TDS			
fibrosis)	When choosing an antibiotic, take account of severity of symptoms and risk of treatment failure.	doxycycline (not in under 12s) OR	200mg on day 1, then 100mg OD		7 to 14 days	
	People who may be at higher risk of treatment	clarithromycin	500mg BD			
Public Health	failure include people who've had repeated courses of antibiotics, a previous sputum culture with resistant or atypical bacteria, or a higher risk of developing complications. Course length is based on severity of	Alternative choice (if person at higher risk of treatment failure) empirical treatment:	500/125mg TDS			Business and markets attended with a trans-
England	bronchiectasis, exacerbation history, severity of	co-amoxiclav OR				
Lock underted	exacerbation symptoms, previous culture and susceptibility results, and response to treatment. Do not routinely offer antibiotic prophylaxis to	levofloxacin (adults only: with specialist advice if co-amoxiclav cannot be	500mg OD or BD		7 to 14 days	
Last updated: Dec 2018	prevent exacerbations.	used; consider safety issues) OR				
	Seek specialist advice for preventing exacerbations in people with repeated acute exacerbations. This may include a trial of antibiotic prophylaxis after a discussion of the possible benefits and harms, and the need for regular review.	ciprofloxacin (children only: with specialist advice if co-amoxiclav cannot be used; consider safety issues)	-			
		IV antibiotics (specialist onl	y)			
	For detailed information click on the visual summary.	When current susceptibility	y data available: choo	se antibiotio	cs accordingly	





Infection	Key points	Medicine	Doses		Length	Visual summary
inection		Wedicine	Adult	Child	Lengin	
	Some people may wish to try honey (in over 1s), the herbal medicine pelargonium (in over 12s), cough medicines containing the expectorant guaifenesin (in over 12s) or cough medicines containing cough suppressants, except codeine, (in over 12s). These self-care treatments have	Adults first choice (if indicated): doxycycline	200mg on day 1, then 100mg OD	-		
		Adults alternative first choices: amoxicillin (preferred if pregnant) OR	500mg TDS	-	5 days	
	limited evidence for the relief of cough symptoms and should be advised to be purchase OTC.	clarithromycin OR	250mg to 500mg BD	-		
	Acute cough with upper respiratory tract infection: no antibiotic.	erythromycin (preferred if pregnant)	250mg to 500mg QDS or 500mg to 1000mg BD	-		
Acute Cough	(at face-to-face examination/remote examination): immediate or back-up antibiotic. Acute cough and systemically very unwell (at face to face examination/remote examination):	Children first choice (if indicated): amoxicillin	-			Coupl licind artificiated prescribing MX
NICE	immediate antibiotic. Higher risk of complications includes people with	Children alternative first choices: clarithromycin OR	-			
Last updated:	over 80 with 1 or more of: hospitalisation in	erythromycin OR	-	Security of the Control of the Contr		
Feb 2019	previous year, type 1 or 2 diabetes, history of congestive heart failure, current use of oral corticosteroids. Do not offer a mucolytic, an oral or inhaled bronchodilator, or an oral or inhaled corticosteroid unless otherwise indicated. For detailed information click on the visual summary. See also the NICE guideline on pneumonia for prescribing antibiotics in adults with acute bronchitis who have had a C-reactive protein (CRP) test (CRP<20mg/l: no routine antibiotic, CRP 20 to 100mg/l: back-up antibiotic, CRP>100mg/l: immediate antibiotic).	doxycycline (not in under 12s)	-		5 days	





Infection	Key points	Medicine	Doses		Length	Visual
IIIIection		Wedicine	Adult	Child	Lengui	summary
	Assess severity in adults based on clinical judgement guided by mortality risk score (CRB65	First choice (low severity in adults or non-severe in children): amoxicillin	500mg TDS (higher doses can be used, see BNF)			
Community- acquired	or CURB65). See the NICE guideline on pneumonia for full details: low severity – CRB65 0 or CURB65 0 or 1 moderate severity – CRB65 1 or 2 or CURB65 2	Alternative first choice (low severity in adults or non-severe in children): doxycycline (not in under 12s) OR	200mg on day 1, then 100mg OD		5 days*	
pneumonia	high severity – CRB65 3 or 4 or CURB65 3 to 5.	clarithromycin OR	500mg BD	4		
priedifionia		erythromycin (in pregnancy)	500mg QDS			<u> </u>
NICE	 Each CRB65 parameter scores one: Confusion (AMT<8, or new disorientation in person, place or time) Respiratory rate >30/min; 	First choice (moderate severity in adults): amoxicillin AND (if atypical pathogens suspected)	500mg TDS (higher doses can be used, see BNF)	-		
Dublic Health	• BP systolic <90 or diastolic ≤ 60;	clarithromycin OR	500mg BD	-	5 days*	
Public Health England	• Age > 65	erythromycin (in pregnancy)	500mg QDS	-	3 days	Page of a page of process of proc
Last updated: Sept	Assess severity in children based on clinical judgement. Offer an antibiotic. Start treatment as soon as	Alternative first choice (moderate severity in adults): doxycycline OR	200mg on day 1, then 100mg OD	-		A STATE OF THE PROPERTY OF THE
2019	possible after diagnosis, within 4 hours (within 1	clarithromycin	500mg BD	-	-	
	hour if sepsis suspected and person meets any high-risk criteria – see the NICE guideline on sepsis). When choosing an antibiotic, take account of severity, risk of complications, local antimicrobial resistance and surveillance data, recent antibiotic	First choice (high severity in adults or severe in children): co-amoxiclav AND (if atypical pathogens suspected)	500/125mg TDS			
	use and microbiological results.	clarithromycin OR	500mg BD		5 days*	
1	* Stop antibiotics after 5 days unless microbiological results suggest a longer course is	erythromycin (in pregnancy)	500mg QDS			
	needed or the person is not clinically stable. For detailed information click on the visual summary. See also the NICE guideline on pneumonia.	Alternative first choice (high severity in adults): levofloxacin (consider safety issues)	500mg BD	-		
		IV antibiotics (specialist only	<i>(</i>)			





Infection	Key points	Medicine _	Doses		Length	Visual
IIIIection			Adult	Child	Length	summary
▼ Urinary	tract infections					
•	Advise to purchase OTC paracetamol or ibuprofen for pain and to drink sufficient fluids to avoid dehydration. 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, men, children or young people: Start antibiotics empirically immediately and send midstream urine for culture and sensitivity.	Non-pregnant women first choice: nitrofurantoin (if eGFR ≥45 ml/minute) OR	100mg m/r BD (or if unavailable 50mg QDS)	-	3 days	
		trimethoprim (only if culture results available and susceptible)	200mg BD	-		
		Non-pregnant women second choice: nitrofurantoin (if eGFR ≥45 ml/minute and not used as first choice) OR	100mg m/r BD (or if unavailable 50mg QDS)	-	3 days	
	severity of symptoms, risk of complications, previous urine culture and susceptibility results,	*pivmecillinam (a penicillin) OR	400mg initial dose, then 200mg TDS	-	3 days	UTI Bowerl antimicrobial prescribing NCC orminal land of the land
Lower urinary	previous antibiotic use which may have led to resistant bacteria and local antimicrobial	*fosfomycin	3g single dose sachet	-	single dose	The state of the
tract infection	resistance data. For detailed information click on the visual summary. See also the NICE guideline on <u>urinary tract infection in under 16s: diagnosis and management</u> and the Public Health England <u>urinary tract infection: diagnostic tools</u>	Pregnant women first choice: nitrofurantoin (avoid at term) – if eGFR ≥45 ml/minute	100mg m/r BD (or if unavailable 50mg QDS)	-	7 days	
	*Only if non-pregnant woman has failed any first-choice treatment options for in the last 1 month or	Pregnant women second choice: amoxicillin (only if culture results available and susceptible) OR	500mg TDS	-	7 days	
NICE	risk factor for increased resistance	cefalexin	500mg BD	-		
	Risk factors for increased resistance – • care home resident	Treatment of asymptomatic nitrofurantoin (avoid at term and susceptibility results				
Public Health England	 recurrent UTI (2 in 6 months; 3 in 12 months) hospitalisation for >7 days in the last 6 months 	Men first choice: nitrofurantoin (if eGFR ≥45 ml/minute) OR	100mg m/r BD (or if unavailable 50mg QDS)	-	7 days	
	 recent travel to country with increased resistance 	trimethoprim (only if culture results available and susceptible)	200mg BD	-	7 days	
	 previous resistant isolates, unresolving urinary symptoms 	Men second choice : basing results. Consider alternative		ent culture	and susceptibility	





Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Rey points		Adult	Child	Lengin	summary
		Children and young people (3 months and over) first choice: trimethoprim (only if culture results available and susceptible) OR	-			
		nitrofurantoin (if eGFR ≥45 ml/minute)	-			
Lower urinary tract infection cont. Last updated:		Children and young people (3 months and over) second choice: nitrofurantoin (if eGFR ≥45 ml/minute and not used as first choice) OR	-	Section 1 to 1	-	
Oct 2018		amoxicillin (only if culture results available and susceptible) OR	-			
Recurrent urinary tract infection	First advise about behavioural and personal hygiene measures, and self-care (Advise to Purchase D-mannose or cranberry products OTC) to reduce the risk of UTI. For postmenopausal women, if no improvement,	cefalexin First choice antibiotic prophylaxis: nitrofurantoin (avoid at term) - if eGFR ≥45 ml/minute OR	100mg single dose when exposed to a trigger or 50 to 100mg at night	The state of the s	-	Mili Becurrenti; artissionidad proceduling MCC Latinose.
NICE	consider vaginal oestrogen (review within 12 months). For non-pregnant women, if no improvement, consider single-dose antibiotic prophylaxis for	trimethoprim (avoid in pregnancy)	200mg single dose when exposed to a trigger or 100mg at night	The state of the s	-	
Public Health England Last updated: Oct 2018	exposure to a trigger (review within 6 months). For non-pregnant women (if no improvement or no identifiable trigger) or with specialist advice for pregnant women, men, children or young people,	Second choice antibiotic prophylaxis: amoxicillin OR	500mg single dose when exposed to a trigger or 250mg at night	The second secon	-	





Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	ney points	Wedicine	Adult	Child	Lengui	summary
	consider a trial of daily antibiotic prophylaxis (review within 6 months). For detailed information click on the visual summary. See also the NICE guideline on urinary tract infection in under 16s: diagnosis and management and the Public Health England urinary tract infection: diagnostic tools for primary care.	cefalexin	500mg single dose when exposed to a trigger or 125mg at night	The second secon	-	
Acute pyelonephritis (upper urinary	Advise to purchase OTC paracetamol (+/- low-dose weak opioid) for pain for people over 12.	Non-pregnant women and men first choice: cefalexin OR	1g TDS	-	7 to 10 days	
tract)	Offer an antibiotic. When prescribing antibiotics, take account of	co-amoxiclav (only if culture results available and susceptible) OR	500/125mg TDS	-	7 to 10 days	
	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	trimethoprim (only if culture results available and susceptible) OR	200mg BD	-	14 days	
	resistance data. People at higher risk of complications include those with abnormalities of	ciprofloxacin (consider safety issues)	500mg BD	-	7 days	Pulsosphilis (scale) antinicrabil precribing sact
NICE	the genitourinary tract or underlying disease (such	Non-pregnant women and i	Table Tabl			
Public Health	as diabetes or immunosuppression). For detailed information click on the visual summary. See also the NICE guideline on <u>urinary tract infection in under 16s: diagnosis and management</u> and the Public Health England <u>urinary tract infection: diagnostic tools</u>	Pregnant women first choice: cefalexin	500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections)	-	7 to 10 days	
England	for primary care.	Pregnant women second cl	hoice or IV antibiotics	(click on v	risual summary)	1
		Children and young people (3 months and over) first choice: cefalexin OR	-	The second secon	_	
Last updated:		co-amoxiclav (only if culture results available and susceptible)	-	all have a man plant and a man man and a man a		
Oct 2018		Children and young people	(3 months and over) I	V antibiot	ics (specialist only)	





Infection	Key points	Medicine	Doses		Length	Visual
mection	Key points	Wedicine	Adult	Child	Lengin	summary
Catheter- associated urinary tract	Antibiotic treatment is not routinely needed for asymptomatic bacteriuria in people with a urinary catheter.	Non-pregnant women and men first choice if no upper UTI symptoms:	100mg m/r BD (or if unavailable 50mg	-		
infection	the catheter if it has been in place for more than 7 days. But do not delay antibiotic treatment if it is indicated. Advise to purchase OTC paracetamol for pain. Advise drinking enough fluids to avoid dehydration. Offer an antibiotic for a symptomatic infection. 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. Do not routinely offer antibiotic prophylaxis to	nitrofurantoin (if eGFR ≥45 ml/minute) OR	QDS)		- 7 days	
		trimethoprim (if low risk of resistance) OR	200mg BD	-	- ruays	
		amoxicillin (only if culture results available and susceptible)	500mg TDS	-		
NICE		Non-pregnant women and men second choice if no upper UTI symptoms: pivmecillinam (a penicillin)	400mg initial dose, then 200mg TDS	-	7 days	
Public Health England		Non-pregnant women and men first choice if upper UTI symptoms: cefalexin OR	500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections)	-	7 to 10 days	Utilisationidal percenting was a second of the second of t
	people with a short-term or long-term catheter. For detailed information click on the visual summary. See also the Public Health England <u>urinary tract</u> infection: diagnostic tools for primary care.	co-amoxiclav (only if culture results available and susceptible) OR	500/125mg TDS	-		
		trimethoprim (only if culture results available and susceptible) OR	200mg BD	-	14 days	
		ciprofloxacin (consider safety issues)	500mg BD	-	7 days	
		Non-pregnant women and is summary)	men IV antibiotics (spec			
		Pregnant women first choice: cefalexin	500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections)	-	7 to 10 days	
		Pregnant women second cl visual summary)	hoice or IV antibiotics	(specialis	t only) (click on	





Infection	Key points	Medicine	Doses	S	Length	Visual
IIIIection	Rey points	modionio	Adult	Child	Lengui	summary
Catheter- associated urinary tract infection cont.		Children and young people (3 months and over) first choice: trimethoprim (only if culture results available and susceptible) OR	-			
Nov 2018	amoxicillin (only if culture results available and susceptible) OR	-	Section 2015 (Section 2015) Section 2015 Section 2015 (Section 2015) Section 2015 (Sec	-		
		cefalexin OR	-			
		co-amoxiclav (only if culture results available and susceptible)	-			
		Children and young people	e (3 months and ove	er) IV antibio	tics (specialist only)	
Acute	Advise to purchase OTC paracetamol (+/- low-dose weak opioid) for pain, or ibuprofen if	First choice (guided by susceptibilities when available):	500mg BD -			
prostatitis	preferred and suitable. Offer antibiotic.	ciprofloxacin (consider safety issues) OR			- 14 days then review	
NICE	Review antibiotic treatment after 14 days and either stop antibiotics or continue for a further	ofloxacin (consider safety issues) OR	200mg BD	-		
Public Health	blood tests). Quinolones achieve higher prostate levels. Admit	trimethoprim (if fluoroquinolone not appropriate; seek specialist advice)	200mg BD	-		
England Last updated:	to hospital if man has any of the following: severely ill or in acute urinary retention. Consider urgent referral if man is immunocompromised or has diabetes or had a pre-existing urological condition.	Second choice (after discussion with specialist): levofloxacin (consider safety issues) OR	500mg OD	-	14 days, then review	
Oct 2018	For detailed information click on the visual summary.	co-trimoxazole	960mg BD	-		
		IV antibiotics (specialist only	y)			





Infection	Key points	Medicine	Doses		Length	Visual			
IIIICOLIOII	ney points		Adult	Child	Longin	summary			
▼ Meningit	▼ Meningitis								
Suspected If meningococcal disease	suspected meningococcal septicaemia or non-blanching rash, 2D,4D give IV or IM benzylpenicillin 1D,2D,4D as soon as possible.2D Consider IV or IM cefotaxime in patients who cannot be given benzylpenicillin Do not give IV on the control of the con	IV or IM benzylpenicillin	Child <1 year: 300mg ^{5t} Child 1 to 9 years: 600t Adult/child 10+ years: 1	mg ^{5D}	Stat dose; ^{1D} give IM, if vein cannot be accessed ^{1D}	Not available. Access the supporting			
England Last updated: Feb 2019		For patients who cannot be given benzylpenicillin: IV or IM cefotaxime	Child 1 month to 11 years: 50mg/kg Child 12 to 17 years: 1g Adult: 1g		Stat dose; give IM, if vein cannot be accessed	evidence and rationales on the <u>PHE</u> website			

Prevention of secondary case of meningitis: Only prescribe antibiotics following advice from the London Health Protection Team

North East and North Central London Health Protection Team (NENCLHPT) contact numbers:

- Daytime Tel: 020 3837 7084 (option 2)
- For Out of Hours Advice: Tel: 0151 909 1215 (between 5pm and 9am and during weekends and Bank Holidays)
- Email: necl.team@phe.gov.uk; phe.nenclhpt@nhs.net

▼ Gastrointestinal tract infections

Oral candidiasis	Topical azoles are more effective than topical nystatin. ^{1A+} Oral candidiasis is rare in immunocompetent	miconazole oral gel ^{1A+,4D,5A-}	2.5ml of 24mg/ml QDS (hold in mouth after food) ^{4D}	BNF for children	7 days; continue for 7 days after resolved ^{4D,6D}	Not available. Access		
Public Health England	adults; ^{2D} consider undiagnosed risk factors, including HIV. ^{2D} Use 50mg fluconazole if extensive/severe	If not tolerated: nystatin suspension ^{2D,6D,7A} -	1ml; 100,000units/ml QDS (half in each side) ^{2D,4D,7A} -	BMF for children	7 days; continue for 2 days after resolved ^{4D}	supporting evidence and rationales on the PHE		
Last updated: Oct 2018	candidiasis: 3D.4D if HIV or immunocompromised	fluconazole capsules ^{6D,7A} -	50mg/100mg OD ^{3D,6D,8A-}	BNF for children	7 to 14 days ^{6D,7A-} ,8A-	<u>website</u>		
Infectious	Refer previously healthy children with acute painful or bloody diarrhoea, to exclude E. coli O157 infection.¹D							
diarrhoea Public Health England	Antibiotic therapy is not usually indicated unless patient is systemically unwell. ^{2D} If systemically unwell and campylobacter suspected (such as undercooked meat and abdominal pain), ^{3D} consider clarithromycin 250mg to 500mg BD for 5 to 7 days, if treated early (within 3 days). ^{3D,4A+} If giardia is confirmed or suspected – tinidazole 2g single dose is the treatment of choice. ^{5A+} Seek specialist advice for treatment in pregnancy Access the supporting evidence and rationales on the PHE website.							
Last updated: Oct 2018								





Infection	Key points	Medicine	Doses		Length	Visual
mection	key points	Wedicine	Adult	Child	Lengin	summary
Helicobacter pylori	Treat all positives. If negative, only retest for H.pylori if DU, GU, family history of cancer, MALToma, or if test was performed within two	Always use PPI ^{2D,3D,5A+,12A+} First line and first relapse and no penicillin allergy PPI PLUS 2 antibiotics	-	BNF for children		
	weeks of PPI, or four weeks of antibiotics. ^{21B+,27C} Leave a 2-week washout period after proton pump	amoxicillin ^{2D,6B+} PLUS	1000mg BD ^{14A+}	BNF for children		
	inhibitor (PPI) use before testing for H. pylori with a carbon-13 urea breath test (UBT) or a stool antigen test (STA), or laboratory-based serology where its performance has been locally validated Do not test for <i>H pylori</i> in proven GORD Do not offer eradication for GORD. ^{3D} Do not use clarithromycin , metronidazole or quinolone if used in the past year for any infection. ^{5A+,6B+,7A+}	clarithromycin ^{2D,6B+} OR	500mg BD ^{8A-}	BNF for children		
Public Health		metronidazole ^{2D,6B+}	400mg BD ^{2D}	BNF for children		
See PHE quick reference guide		Penicillin allergy and previous clarithromycin: PPI WITH bismuth subsalicylate PLUS 2 antibiotics	-	-	7 days ^{2D} MALToma 14 days ^{7A+,16A+}	Not available. Access supporting evidence and
for diagnostic advice: PHE		bismuth subsalicylate ^{13A+} PLUS	525mg QDS ^{15D}			
H. pylori	, and the second	metronidazole ^{2D} PLUS	400mg BD ^{2D}	BNF for children		
	Retest for <i>H. pylori</i> : post DU/GU, or relapse after	tetracycline ^{2D}	500mg QDS ^{15D}		-	
	consider referral for endoscopy and culture. ^{2D} PPI – Use either Omeprazole 20mg BD OR Lansoprazole 30mg BD	Relapse and previous metronidazole and clarithromycin: PPI PLUS 2 antibiotics	-	-		rationales on the <u>PHE</u> <u>website</u>
Last updated: Feb 2019		amoxicillin ^{2D,7A+} PLUS	1000mg BD ^{14A+}	BNF for children		
		tetracycline ^{2D,7A+} OR	500mg QDS ^{15D}			
		levofloxacin (if tetracycline cannot be used) ^{2D,7A+}	250mg BD ^{7A+}			
		Third line (specialist only) PPI WITH	-	-		
		bismuth subsalicylate PLUS	525mg QDS ^{15D}	-	10 days	
		2 antibiotics as above not previously used OR	-	-	2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	
		rifabutin ^{14A+} OR	150mg BD	-		
		furazolidone ^{17A+}	200mg BD	-	1	





Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	ney points	Wedicine	Adult	Child	Lengui	summary
	For suspected or confirmed <i>C. difficile</i> infection, see Public Health England's guidance on diagnosis and reporting.	First-line for first episode of mild, moderate or severe: vancomycin	125mg QDS	BNF for children		
	Assess: whether it is a first or further episode, severity of infection, individual risk factors for complications or recurrence (such as age, frailty or comorbidities).	Second-line for first episode of mild, moderate or severe if vancomycin ineffective:	200mg BD	BNF for children		
Clostridioides	Existing antibiotics : review and stop unless essential. If still essential, consider changing to one with a lower risk of <i>C. difficile</i> infection.	For further episode within 12 weeks of symptom	200mg BD	BNF	10 days	
infection	Review the need to continue: proton pump inhibitors, other medicines with gastrointestinal activity or adverse effects (such as laxatives),	resolution (relapse): fidaxomicin		for children		
NICE	medicines that may cause problems if people are dehydrated (such as NSAIDs).	For further episode more than 12 weeks after symptom resolution	125mg QDS	BNF		Characters Affair free for a strength and the strength an
	Do not offer antimotility medicines such as loperamide.	(recurrence): vancomycin OR		for children		The state of the s
Public Health England	Offer an oral antibiotic to treat suspected or confirmed <i>C. difficile</i> infection.	fidaxomicin	200mg BD	BNF for children		
Last updated: Jul 2021	For adults, consider seeking prompt specialist advice from a microbiologist or infectious diseases specialist before starting treatment.	For alternative antibiotics i or for life-threatening infec				
3.232	For children and young people, treatment should be started by, or after advice from, a microbiologist, paediatric infectious diseases specialist or paediatric gastroenterologist.					
	If antibiotics have been started for suspected <i>C. difficile</i> infection, and subsequent stool sample tests do not confirm infection, consider stopping these antibiotics.					
	For detailed information click on the visual summary					





Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Rey points	Medicine	Adult	Child	Lengin	summary
Acute diverticulitis	Acute diverticulitis and systemically well: Consider no antibiotics, advice to purchase OTC simple analgesia (for example paracetamol), advise to re-present if symptoms persist or	First-choice (uncomplicated acute diverticulitis): co-amoxiclav	500/125mg TDS	-		
Last updated: Nov 2019	worsen. Acute diverticulitis and systemically unwell, immunosuppressed or significant comorbidity: offer an antibiotic.	Penicillin allergy or co- amoxiclav unsuitable: cefalexin (caution in penicillin allergy) AND metronidazole OR	cefalexin: 500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections) metronidazole: 400mg TDS	-		Directivalar disease artiroiscidad pracediling waz
	diverticulitis. Give IV antibiotics if admitted to hospital with suspected or confirmed complicated acute diverticulitis (including diverticular abscess).	trimethoprim AND metronidazole OR	trimethoprim: 200mg BD metronidazole: 400mg TDS	-	5 days*	
review the need for antib	If CT-confirmed uncomplicated acute diverticulitis, review the need for antibiotics. * A longer course may be needed based on clinical assessment.	ciprofloxacin (only if switching from IV ciprofloxacin with specialist advice; consider safety issues) AND metronidazole	ciprofloxacin: 500mg BD metronidazole: 400mg TDS			
		For IV antibiotics in complicated acute diverticulitis (including diverticular abscess) (specialist only)				
Traveller's diarrhoea	Prophylaxis rarely, if ever, indicated. ^{1D} Consider	Standby: azithromycin	500mg OD ^{1D,3A+}	-	1 to 3 days ^{1D,2D,3A+}	Not available. Access supporting
Public Health England Last updated: Oct 2018	standby antimicrobial only for patients at high risk of severe illness, ^{2D} or visiting high-risk areas. ^{1D,2D}	Prophylaxis/treatment: bismuth subsalicylate	2 tablets QDS ^{1D,2D}	-	2 days ^{1D,2D,4A} -	evidence and rationales on the <u>PHE</u> website
Threadworm	Treat all household contacts at the same time. 1D Mebendazole should be advised OTC for all patients >2yrs	Child >6 months: mebendazole for >2yrs) Child >6 months: (OTC	100mg stat ^{3B-}	BNF for children	1 dose; ^{3B-} repeat in 2 weeks if persistent ^{3B-}	Not available.
Public Health England Last updated: Nov 2017	Advise hygiene measures for 2 weeks ^{1D} (hand hygiene; ^{2D} pants at night; morning shower, including perianal area). ^{1D,2D} Wash sleepwear, bed linen, and dust and vacuum. ^{1D} Child <6 months, add perianal wet wiping or washes 3 hourly. ^{1D}	Child <6 months or pregnant (at least in first trimester): only hygiene measure for 6 weeks ^{1D}	-	-	-	supporting evidence and rationales on the PHE website





Infection	Key points	Medicine	Doses		Length	Visual summary	
intection	Rey points	Weatchie	Adult	Child	Lengui		
▼ Genital	tract infections						
	Opportunistically screen all sexually active patients aged 15 to 24 years for chlamydia annually and on change of sexual partner. ^{1B-}	First line: doxycycline ^{4A+,11A-,12A+}	100mg BD ^{4A+,11A-,12A+}		7 days ^{4A+,11A-,12A+}		
Chlamydia trachomatis/ urethritis Public Health England	If positive, treat index case, refer to GUM and initiate partner notification, testing and treatment. 2D,3A+ As single dose azithromycin has led to increased resistance in GU infections, doxycycline should be used first line for chlamydia and urethritis. 4A+ Advise patient with chlamydia to abstain from sexual intercourse until doxycycline is completed or for 7 days	Second line/ pregnant/breastfeeding/ allergy/intolerance: azithromycin ^{4A+,11A-,12A+}	1000mg ^{4A+,11A-,12A+} then 500mg OD ^{4A+,11A-,12A+}		Stat ^{4A+,11A-,12A+} 2 days ^{4A+,11A-,12A+} (total 3 days)		
	after treatment with azithromycin (14 days after azithromycin started and until symptoms resolved if urethritis). 3A+,4A+ If chlamydia, test for reinfection at 3 to 6 months following treatment if under 25 years; or consider if over 25 years and high risk of re-infection. 1B-,3B+,5B-			-		Not available. Access supporting evidence and rationales on the PHE	
Last updated: July 2019	Second line, pregnant, breastfeeding, allergy, or intolerance: azithromycin is most effective. 6A+,7D,8A+,9A+,10D As lower cure rate in pregnancy, test for cure at least 3 weeks after end of treatment. 3A+						<u>website</u>
	Consider referring all patients with symptomatic urethritis to GUM as testing should include <i>Mycoplasma genitalium</i> and <i>Gonorrhoea</i> . ^{11A-}						
	If <i>M.genitalium</i> is proven, use doxycycline followed by azithromycin using the same dosing regimen and advise to avoid sex for 14 days after start of treatment and until symptoms have resolved. 11A-,12A+						
Bacterial vaginosis	Oral metronidazole is as effective as topical treatment, 1A+ and is cheaper. 2D	oral metronidazole 1A+,3A+ OR	400mg BD ^{1A+,3A+} OR 2000mg ^{1A+,2D}		5 - 7 days (NICE CKS 2018) OR Stat ^{2D}	Not available. Access	
Public Health England	7 days results in fewer relapses than 2g stat at 4 weeks. 1A+,2D Pregnant/breastfeeding : avoid 2g dose. 3A+,4D	metronidazole 0.75% vaginal gel ^{1A+,2D,3A+} OR	5g applicator at night1A+,2D,3A+	-	5 nights ^{1A+,2D,3A+}	supporting evidence and rationales on	
Last updated: Nov 2017	Treating partners does not reduce relapse. 5A+	clindamycin 2% cream ^{1A+,2D}	5g applicator at night ^{1A+,2D}		7 nights ^{1A+,2D,3A+}	the <u>PHE</u> <u>website</u>	





Infection	Key points	Medicine	Doses		Length	Visual
intection	Rey points	Wedicine	Adult	Child	Lengin	summary
Epididymitis U	Usually due to Gram-negative enteric bacteria in	doxycycline ^{1A+,2D} OR	100mg BD ^{1A+,2D}	-	10 to 14 days ^{1A+,2D}	Not available. Access
Public Health England	men over 35 years with low risk of STI. 1A+,2D If under 35 years or STI risk, refer to GUM. 1A+,2D	ofloxacin (consider safety issues) 1A+,2D OR	200mg BD ^{1A+,2D}		14 days ^{1A+,2D}	supporting evidence and
Last updated: Nov 2017	· ·	ciprofloxacin (consider safety issues) 1A+,2D	500mg BD ^{1A+,2D,3A+}		10 days ^{1A+,2D,3A+}	rationales on the <u>PHE</u> website
		oral aciclovir ^{1A+,2D,3A+,4A+}	400mg TDS ^{1A+,3A+}		5 days ^{1A+}	Not available. Access supporting evidence and rationales on the PHE website
Genital herpes	Advise : saline bathing, ^{1A+} analgesia, ^{1A+} or OTC topical lidocaine for pain, ^{1A+} and discuss		200mg five times a day		5 day (NICE CKS 2017)	
Public Health	current : self-care if mild, ^{2D} or immediate short onl		800mg TDS (if recurrent) ^{1A+}		2 days ^{1A+}	
England		valaciclovir (specialist only) 1A+,3A+,4A+ OR	500mg BD ^{1A+}		5 days ^{1A+}	
Last updated:		famciclovir (specialist	250mg TDS ^{1A+}	_	5 days ^{1A+}	
Nov 2017 therapy if r			1000mg BD (if recurrent) ^{1A+}		1 day ^{1A+}	
Gonorrhoea Public Health	Antibiotic resistance is now very high. 1D,2D Refer to GUM. 3B- Test of cure is essential. 2D Use IM ceftriaxone if susceptibility not known	ceftriaxone ^{2D} OR	1000mg IM ^{2D}		Stat ^{2D}	Not available. Access supporting evidence and rationales on the PHE website
England Last updated: Feb 2019	prior to treatment ^{2D} . Use ciprofloxacin only If susceptibility is known prior to treatment and the isolate is sensitive to ciprofloxacin at all sites of infection ^{1D,2D}	ciprofloxacin ^{2D} (only if known to be sensitive)	500mg ^{2D}	-	Stat ^{2D}	
Trichomoniasis			400mg BD ^{1A+,6A+}		5 to 7 day ^{1A+}	Not available.
Public Health	Oral treatment needed as extravaginal infection common. 1D Treat partners, 1D and refer to GUM for other STIs. 1D	metronidazole ^{1A+,2A+,3D,6A+}	2g (more adverse effects) ^{6A+}		Stat ^{1A+,6A+}	Access supporting
England	Pregnant/breastfeeding: avoid 2g single dose	Pregnancy to treat symptoms:	100mg pessary at night ^{5D}	-	6 nights ^{5D}	evidence and rationales on
Last updated: Nov 2017	metronidazole: ^{2A+,3D} clotrimazole for symptom relief (not cure) if metronidazole declined. ^{2A+,4A-,5D}	clotrimazole ^{2A+,4A-,5D}				the <u>PHE</u> <u>website</u>
STI screening	People with risk factors should be screened for chla	mydia, gonorrhoea, HIV and s	syphilis. 1D Refer individu	al and part	tners to GUM.1D	1
Public Health England	Risk factors: <25 years; no condom use; recent/fre	equent change of partner; symp	• •	•		
Last updated: Nov 2017	Access the supporting evidence and rationales on the PF (Extra care would be required in men)	<u>IE website.</u>				





Infection	Key points	Medicine	Doses		Length	Visual
IIIICOLIOII		Wicalding	Adult	Child	Longin	summary
Pelvic	Refer women and sexual contacts to GUM. ^{1A+} Raised CRP supports diagnosis, absent pus cells	First line therapy: ceftriaxone ^{1A+,3C,4C} PLUS	1000mg IM ^{1A+,3C}		Stat ^{1A+,3C}	
inflammatory	in HVS smear good negative predictive value.1A+	metronidazole ^{1A+,5A+} PLUS	400mg BD ^{1A+}		14 days ^{1A+}	
disease	Exclude : ectopic pregnancy, appendicitis,	doxycycline ^{1A+,5A+}	100mg BD ^{1A+}		14 days ^{1A+}	Not available.
	endometriosis, UTI, irritable bowel, complicated ovarian cyst, functional pain.	Second line therapy: metronidazole ^{1A+,5A+} PLUS	400mg BD ^{1A+}		14 days ^{1A+}	Access supporting
Public Health England	Moxifloxacin has greater activity against likely pathogens, but always test for gonorrhoea,	ofloxacin ^{1A+,2A-,5A+} OR	400mg BD ^{1A+,2A-}	-	14 days ^{1A+}	evidence and rationales on the PHE website
Last updated: Feb 2019	chlamydia, and <i>M. genitalium</i> . ^{1A+} If M. genitalium tests positive use moxifloxacin. ^{1A+} BASHH guideline for the Management of Pelvic Inflammatory Disease (2019 Interim Update)	moxifloxacin alone ^{1A+} (first line for <i>M. genitalium</i> associated <i>PID</i>)	400mg OD ^{1A+}		14 days ^{1A+}	
		clotrimazole ^{1A+,5D} OR	500mg pessary ^{1A+}		Stat ^{1A+}	
Vaginal	All topical and oral azoles give over 80%	clotrimazole OR	200mg pessary		3 nights	Not available.
candidiasis	cure. ^{1A+,2A+}	clotrimazole ^{1A+} OR	100mg pessary ^{1A+}		6 nights ^{1A+}	Access
	Pregnant: avoid oral azoles, the 7-day courses	oral fluconazole ^{1A+,3D}	150mg ^{1A+,3D}		Stat ^{1A+}	supporting
Public Health England Last updated: Oct 2018	are more effective than shorter ones. 1A+,3D,4A+ Recurrent (>4 episodes per year): 1A+ 150mg oral fluconazole every 72 hours for 3 doses induction, 1A+ followed by 1 dose once a week for 6 months maintenance. 1A+	If recurrent: fluconazole (induction/maintenance) 1A+	150mg every 72 hours THEN 150mg once a week ^{1A+,3D}	-	3 doses 6 months ^{1A+}	evidence and rationales on the PHE website





Infection	Key points	Medicine	Doses		Length	Visual
miection	Rey points	Wiedicine	Adult	Child	Lengin	summary
▼ Skin a	nd soft tissue infections					
Note: Refer to RC	GP Skin Infections online training. 1D For MRSA, discuss the	rapy with microbiologist.1D				
	Hydrogen peroxide 1% cream (other topical	Topical antiseptic: hydrogen peroxide	1% BD - TDS			
Impetigo	antiseptics are available but no evidence for impetigo). If hydrogen peroxide unsuitable or ineffective, short-course topical antibiotic. Widespread non-bullous impetigo:	First choice topical antibiotic if hydrogen peroxide unsuitable fusidic Acid	2% ointment TDS			
	Short-course topical or oral antibiotic. Take account of person's preferences, practicalities of administration, previous use of topical antibiotics because antimicrobial resistance can develop	Fusidic acid resistance suspected or confirmed: mupirocin 2%	TDS			Integration infrincipated great ching
NICE	rapidly with extended or repeated use, and local antimicrobial resistance data.	First line oral antibiotic oral flucloxacillin	500mg QDS		5 days*	
MICL	Bullous impetigo, systemically unwell, or high risk of complications: Short-course oral antibiotic. Do not offer	Penicillin allergy or flucloxacillin unsuitable: clarithromycin OR	250mg BD			According to the second
Last updated: Feb 2020	combination treatment with a topical and oral antibiotic to treat impetigo. *5 days is appropriate for most, can be increased to 7 days based on clinical judgement.Referral to a consultant in Communicable Disease Control is required if	erythromycin (in pregnancy)	250mg to 500mg QDS			
	there is a significant local outbreak (for example, in a nursing home or school). For detailed information click on the visual summary.	If MRSA suspected or confirmed – consult local microbiologist				
Acne vulgaris	First-line treatment options: offer a course of 1 of the options, taking account of severity, preferences, and advantages/disadvantages of each option. Completing the course is important because positive effects can take 6 to 8 weeks. Consider topical OTC benzoyl peroxide	First line: fixed combination of topical adapalene with topical benzoyl peroxide (for any acne severity, not in under 9s) OR	0.1% adapalene/ 2.5% benzoyl peroxide OR 0.3% adapalene/2.5% benzoyl peroxide OD (thinly in the evening)	BNF for children		Not available.
Last updated: Jun 2021	monotherapy as an alternative if first-line treatment options are contraindicated, or to avoid topical retinoids or an antibiotic (topical or oral).	fixed combination of topical tretinoin with topical clindamycin (for any facial acne severity, not in under 12s) OR	0.025% tretinoin/ 1% clindamycin OD (thinly at bedtime)	BNF for children	12 weeks	See the <u>NICE</u> guideline on acne vulgaris





Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	ney points	Wedicine	Adult	Child	Length	summary
Acne vulgaris cont	Do not use: monotherapy with a topical antibiotic, monotherapy with an oral antibiotic, or a combination of a topical antibiotic and an oral antibiotic. Review first-line treatment at 12 weeks. Only continue a topical or oral antibiotic for more than 6 months in expentional aircumetones.	fixed combination of topical benzoyl peroxide with topical clindamycin (for mild to moderate acne, not in under 12s) OR	3% benzoyl peroxide/1% clindamycin OR 5% benzoyl peroxide/1% clindamycin OD (in the evening)	BMF for children		Not available. See the <u>NICE</u> guideline on acne vulgaris
Last updated: Jun 2021	than 6 months in exceptional circumstances. Review at 3 monthly intervals, and stop the antibiotic as soon as possible. For detailed information see the NICE guideline on acne vulgaris.	fixed combination of topical adapalene with topical benzoyl peroxide AND either oral lymecycline or oral doxycycline (for moderate to severe acne, not in under 12s) OR	0.1% adapalene/ 2.5% benzoyl peroxide OR 0.3% adapalene/2.5% benzoyl peroxide OD (thinly in the evening)	BMF for children		
			AND lymecycline 408mg OD OR doxycycline 100mg OD	BMF for children	12 weeks	
		Topical azelaic acid AND either oral lymecycline or oral doxycycline (for moderate to severe acne, not in under 12s)	15% or 20% azelaic acid BD* AND lymecycline 408mg OD OR	BMF for children		
		*Apply OD for 1 week, then BD patients with sensitive skin	doxycycline 100mg OD	for children		
		Alternative: topical benzoyl peroxide OTC	5% benzoyl peroxide OD to BD	BNF for children		





Infection	Key points	Medicine	Doses	Doses		Visual		
mection	Key points	Wiedicine	Adult	Child	Length	summary		
Cold sores Public Health England Last updated: Nov 2017	Most resolve after 5 days without treatment. 1A-,2 If frequent, severe, and predictable triggers: cor Access supporting evidence and rationales on the PHE V	nsider oral prophylaxis:4D,5A+			-	A-,2A-,3A-		
PVL-SA Public Health England Last updated: Nov 2017	Panton-Valentine leukocidin (PVL) is a toxin produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 to 46% of <i>S. aureus</i> from boils and the produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. Begin and the produced by 20.8 t							
		First-choice:		_				
Leg ulcer	Manage any underlying conditions to promote	flucloxacillin	500mg to 1g QDS	-	7 days			
Leg dicei	ulcer healing. Only offer an antibiotic when there are symptoms		Penicillin allergy or if flucloxacillin unsuitable:					
NICE	or signs of infection (such as redness or swelling spreading beyond the ulcer, localised warmth, increased pain or fever). Few leg ulcers are	doxycycline OR	200mg on day 1, then 100mg OD (can be increased to 200mg daily)		7 Days	Eng data behada anahah didik pundang NCE sistem.		
	clinically infected but most are colonised by bacteria.	clarithromycin OR	500mg BD	1	1 Days			
	When prescribing antibiotics, take account of severity, risk of complications and previous	erythromycin (in pregnancy)	500mg QDS			Tomorrow Tomorrow Tomorrow		
Last updated:	antibiotic use.	Second choice:						
Feb 2020	For detailed information click on the visual	co-amoxiclav OR	500/125mg TDS					
	summary.	co-trimoxazole (in penicillin allergy)	960mg BD	-	7 Days			





Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Ney points	Wiedicitie	Adult	Child	Lengin	summary
		For antibiotic choices if se click on the visual summar		A suspecte	ed or confirmed,	
		First choice:	-			
		flucloxacillin	500mg to 1g QDS	STATE OF THE PARTY	5 to 7 days*	
Cellulitis and		Penicillin allergy or if fluctor	xacillin unsuitable:			
erysipelas	Exclude other causes of skin redness (inflammatory reactions or non-infectious causes).	clarithromycin (inc children with penicillin	500mg BD	and the control of	5 to 7 days*	
NICE	Consider marking extent of infection with a single-	allergy) OR				
MICE	use surgical marker pen. Offer an antibiotic. Take account of severity, site	erythromycin (in pregnancy) OR	500mg QDS			
	of infection, risk of uncommon pathogens, any microbiological results and MRSA status.	doxycycline (adults only) OR	200mg on day 1, then 100mg OD	-		Calculate and exceptance artificiantial procedurg. NGC
Public Health England	Infection around eyes or nose is more concerning because of serious intracranial complications.	co-amoxiclav (children only: not in penicillin	-			The state of the s
	*A longer course (up to 14 days in total) may be	allergy) If infection near eyes or no	ς <u>ο</u> .			With the second
	needed but skin takes time to return to normal, and full resolution at 5 to 7 days is not expected.	co-amoxiclav	500/125mg TDS	Balance Control	7 days*	
	Do not routinely offer antibiotics to prevent	If infection near eyes or no	se (penicillin allergy):		l.	
	recurrent cellulitis or erysipelas.	clarithromycin AND	500mg BD	(100)	7 days*	
Last updated: Sept 2019	For detailed information click on the visual summary.	metronidazole (only add in children if anaerobes	400mg TDS			
Sept 2019	Summary.	suspected)				
		For alternative choice antil confirmed MRSA infection visual summary	and IV antibiotics (sp	ecialist only) click on the	
Eczema (bacterial	Manage underlying eczema and flares with treatments such as emollients and topical	If not systemically unwell, antibiotic	do not routinely offer	either a to	pical or oral	
infection)	corticosteroids, whether antibiotics are given or	Topical antibiotic (if a topic	al is appropriate). Fo	r localised	infections only:	
NICE	not. Symptoms and signs of secondary bacterial infection can include: weeping pustules crusts	First choice: fusidic acid 2%	TDS	The state of the s	5 to 7 days	
HICL	l infection can include: weeping pustules crusts L	Oral antibiotic (if oral is ap				
	eczema, fever and malaise.	First choice: flucloxacillin	500mg QDS		5 to 7 days	





Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Rey points	Wedicine	Adult	Child	Length	summary
Public Health England Last updated:	Not all flares are caused by a bacterial infection, so will not respond to antibiotics. Eczema is often colonised with bacteria but may	Penicillin allergy or flucloxacillin unsuitable: clarithromycin OR	250mg BD (can be increased to 500mg BD for severe infections)			
Mar 2021	not be clinically infected.	erythromycin (in	250mg to 500mg	And the second s		
F	Do not routinely take a skin swab.	pregnancy)	QDS	Additional of the control of the con		
Eczema (bacterial	Not systemically unwell:					
infection) cont	Do not routinely offer either a topical or oral antibiotic.					
NICE	If an antibiotic is offered, when choosing between a topical or oral antibiotic, take account of patient preferences, extent and severity of symptoms or signs, possible adverse effects, and previous use					
Public Health England Last updated:	of topical antibiotics because antimicrobial resistance can develop rapidly with extended or repeated use.	If MRSA suspected or conf	executive of distributions of the start product and the start prod			
Mar 2021	Systemically unwell:		The state of the s			
	Offer an oral antibiotic.					
	If there are symptoms or signs of cellulitis, see cellulitis and erysipelas.					
	For detailed information click on the visual summary.					
Diabetic foot		Mild infection: first choice			1	
infection	In diabetes, all foot wounds are likely to be	flucloxacillin	500mg to 1g QDS	-	7 days*	_
	colonised with bacteria. Diabetic foot infection has	Mild infection (penicillin all	ergy): 500mg BD		-	Collection for infection protected providing NCC (Infection
NUCE	at least 2 of: local swelling or induration; erythema; local tenderness or pain; local warmth;	clarithromycin OR erythromycin (in	, and the second	1		Description Control of the Contr
NICE	purulent discharge.	pregnancy) OR	500mg QDS		7 days*	TOTAL CONTROL OF THE PROPERTY
	Severity is classified as: Mild: local infection with 0.5 to less than 2cm erythema	doxycycline	200mg on day 1, then 100mg OD (can be increased to 200mg daily)	-		The state of the s





Infection	Key points	Medicine	Doses		Length	Visual
micotion	ney points	Wicalcine	Adult	Child	Length	summary
Diabetic foot infection cont Last updated: Oct 2019	erythema or involving deeper structures (such as abscess, osteomyelitis, septic arthritis or fasciitis) Severe: local infection with signs of a systemic inflammatory response. Start antibiotic treatment as soon as possible. Take samples for microbiological testing before, or as close as possible to, the start of treatment When choosing an antibiotic, take account of severity, risk of complications, previous microbiological results and antibiotic use, and patient preference. *A longer course (up to a further 7 days) may be needed based on clinical assessment. However, skin does take time to return to normal, and full resolution at 7 days is not expected. Do not offer antibiotics to prevent diabetic foot infection. For detailed information click on the	For antibiotic choices for n Pseudomonas aeruginosa antibiotics (specialist only) o				
	visual summary.		_	T	T	
Scabies	First choice OTC permethrin : Treat whole body from ear/chin downwards, 1D,2D and under	OTC permethrin (>2yrs)	5% cream ^{1D,2D}	BNF for children		Not available. Access
Public Health England Last updated:	nails. ^{1D,2D} If using permethrin and patient is under 2 years, elderly or immunosuppressed, or if treating with malathion: also treat face and scalp. ^{1D,2D}	Permethrin allergy: malathion ^{1D}	0.5% aqueous liquid ^{1D}	BMF for children	2 applications, 1- week apart ^{1D}	supporting evidence and rationales on the PHE website
Oct 2020	Home/sexual contacts: treat within 24 hours. 1D	First choice:				website
Human and animal bites	Offer an antibiotic for a human or animal bite if there are symptoms or signs of infection, such as	co-amoxiclav	250/125mg or	T	3 days for	
	increased pain, inflammation, fever, discharge or		500/125mg TDS	Part of the second of the seco	prophylaxis	Dept. and selected by a selected and
NICE	an unpleasant smell. Take a swab for microbiological testing if there is discharge (purulent or non-purulent) from the wound.				5 days for treatment*	The second secon
	Do not offer antihiotic prophylaxis if a human or					Programme Communication Commun
Public Health	animal bite has not broken the skin.	doxycycline AND	200mg on day 1, then 100mg or 200mg daily	Supplies that they would be a supplied to the supplies to the	3 days for prophylaxis 5 days for	
England		metronidazole	400mg TDS		treatment*	





Infection	Key points	Medicine	Doses		Length	Visual
mection	Rey points	Wiedicinie	Adult	Child	Lengin	summary
		seek specialist advice in pr	egnancy			
	Human bite:	IV antibiotics (specialist only	y)			
Last updated: Nov 2020	Offer antibiotic prophylaxis if the human bite has broken the skin and drawn blood.					
	Consider antibiotic prophylaxis if the human bite has broken the skin but not drawn blood if it is in a high-risk area or person at high risk.					
	Cat bite:					
	Offer antibiotic prophylaxis if the cat bite has broken the skin and drawn blood.					
	Consider antibiotic prophylaxis if the cat bite has broken the skin but not drawn blood if the wound could be deep.					
	Dog or other traditional pet bite (excluding cat bite)					
	Do not offer antibiotic prophylaxis if the bite has broken the skin but not drawn blood.					
	Offer antibiotic prophylaxis if the bite has broken the skin and drawn blood if it has caused considerable, deep tissue damage or is visibly contaminated (for example, with dirt or a tooth).					
	Consider antibiotic prophylaxis if the bite has broken the skin and drawn blood if it is in a highrisk area or person at high risk.					
	*course length can be increased to 7 days (with review) based on clinical assessment of the wound.					





Infection	Key points	Medicine	Doses		Length	Visual			
IIIIection	Rey points	Wiedicitie	Adult	Child	Length	summary			
Insect bites and stings	An insect bite or sting often causes a small, red lum unlikely; it is unclear which causative organisms are infection.					Namido od dog etocold prodog MCC			
NICE	The guideline notes people may wish to consider or	With rapid-onset skin reactions likely to be inflammatory or allergic reactions, most bites and stings will not need antibiotics. The guideline notes people may wish to consider oral antihistamines (OTC) to help relieve itching (which may last up to 10 days), and some antihistamines cause sedation, which might help at night.							
Last updated: Sept 2020	For bites and stings where there is a sign of an infection, antibiotic treatment recommendations in the NICE guideline on cellulitis and erysipelas should be followed, or the guidance on Lyme disease if there is a known or suspected tick bite.								
		For lactating woman: flucloxacillin ^{2D}	500mg QDS ^{2D}						
Mastitis	pathogen. ^{1D} Suspect if woman has: a painful breast; ^{2D} fever and/or general malaise; ^{2D} a tender, red breast. ^{2D} Breastfeeding: oral antibiotics are appropriate,	If penicillin allergy: erythromycin ^{2D} OR	250mg to 500mg QDS ^{2D}			Not available.			
D 1 11 141		clarithromycin ^{2D}	500mg BD ^{2D}			Access supporting			
Public Health England		For non-lactating woman (NICE CKS): co-amoxiclay	625mg TDS	-	10 to 14 days ^{2D}	evidence and rationales on			
Last updated: Nov 2017	where indicated. ^{2D,3A+} Women should continue feeding, ^{1D,2D} including from the affected breast. ^{2D}	If penicillin allergy (NICE CKS): Metronidazole AND	500mg TDS			the <u>PHE</u> <u>website</u>			
		Erythromycin OR	250mg to 500mg QDS						
		clarithromycin	500mg BD						
	Dermatophyte infection: skin Including:	topical terbinafine ^{3A+,4D} OR	1% OD to BD ^{2A+}	BNF for children	1 to 4 weeks ^{3A+}				
Dermatophyte	Tinea corporis (ringworm) Tinea pedis (athlete's foot), Tinea cruris (jock itch)	topical clotrimazole ^{2A+,3A+}	1% OD to BD ^{2A+}	BNF for children	4 to 6 weeks ^{2A+,3A+}				
infection: skin	Tinea faciei (facial ringworm), Tinea capitis (scalp ringworm) Most cases: use terbinafine as fungicidal,	Alternative in athlete's foot: topical undecenoates ^{2A+}	OD to BD ^{2A+}	BNF for children		Not available. Access supporting			
Public Health England	treatment time shorter and more effective than with fungistatic imidazoles or undecenoates 1D,2A+ If candida possible, use imidazole.4D	(such as Mycota®) ^{2A+}				evidence and rationales on the <u>PHE</u> website			
Last updated: Feb 2019	If intractable, or scalp: send skin scrapings, 1D and if infection confirmed: use oral terbinafine 1D,3A+,4D or itraconazole. 2A+,3A+,5D Scalp: oral therapy, 6D and discuss with specialist. 1D					<u>website</u>			





Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Rey points	Wiedicitie	Adult	Child	Lengui	summary
Dermatophyte infection: nail	Take nail clippings ; ^{1D} start therapy only if infection is confirmed. ^{1D} Oral terbinafine is more effective than oral azole. ^{1D,2A+,3A+,4D} Liver reactions 0.1 to 1% with oral antifungals. ^{3A+} If candida or non-dermatophyte infection is confirmed, use oral itraconazole . ^{1D,3A+,4D} Topical nail lacquer is not as	First line: terbinafine ^{1D,2A+,3A+,4D,6D}	250mg OD ^{1D,2A+,6D}	BMF for children	Fingers: 6 weeks ^{1D,6D} to 3 months (NICE CKS) Toes: 12 weeks ^{1D,6D} to 6 months (NICE CKS)	Not available. Access supporting
Public Health England Last updated: Oct 2018	effective. 1D.5A+,6D To prevent recurrence : apply weekly 1% topical antifungal cream to entire toe area. 6D Children : seek specialist advice. 4D	Second line: itraconazole ^{1D,3A+,4D,6D}	200mg BD ^{1D,4D}	BNF for children	1 week repeated after 21 days Fingers: 2 courses ^{1D} Toes: 3 courses ^{1D}	evidence and rationales on the PHE website
	Stop treatment when continual, new, healthy, proximal nail growth. ^{6D}					
Varicella	Pregnant/immunocompromised/ neonate/Breastfeeding: seek urgent specialist advice. ^{1D} Chickenpox: consider aciclovir ^{2A+,3A+,4D} if: onset	First line for chicken pox and shingles: aciclovir ^{3A+,7A+,10A+,13B+,14A-} ,15A+	800mg 5 times daily ^{16A-}	BMF for children		Not available.
chickenpox	of rash <24 hours, ^{3A+} and 1 of the following: >14 years of age; ^{4D} severe pain; ^{4D} dense/oral rash; ^{4D} , ^{5B+} taking steroids; ^{4D} smoker. ^{4D,5B+}	Second line for shingles if poor compliance: not for children:	250mg to 500mg TDS ^{15A+} OR	_	7 days ^{14A-,16A-}	Access supporting evidence and
Herpes zoster/ shingles	Advice to purchase OTC paracetamol for pain relief.6C	famciclovir ^{8D,14A-, 16A-} (specialist only) OR	750mg BD ^{15A+}			rationales on the <u>PHE</u> <u>website</u>
Public Health England	Shingles: treat if >50 years ^{7A+,8D} (PHN rare if <50 years) ^{9B+} and within 72 hours of rash, ^{10A+} or if 1 of the following: active ophthalmic; ^{11D} Ramsey Hunt; ^{4D} eczema; ^{4D} non-truncal involvement; ^{8D} moderate or severe pain; ^{8D} moderate or severe rash. ^{5B+,8D}	valaciclovir ^{8D,10A+,14A-} (specialist only)	1g TDS ^{14A-}	BMF for children		
Last updated: Oct 2018	Shingles treatment if not within 72 hours: consider starting antiviral drug up to 1 week after rash onset, 12B+ if high risk of severe shingles 12B+ or continued vesicle formation; 4D older age; 7A+,8D,12B+ immunocompromised; 4D or severe pain. 7D,11B+					





Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Rey points	Wedicitie	Adult	Child	Lengin	summary
Tick bites (Lyme disease) Public Health	Treatment : Treat erythema migrans empirically ; serology is often negative early in infection. ^{1D} For other suspected Lyme disease such as	Treatment doxycycline ^{1D}	100mg BD ^{1D}	BNF for children	21 days¹D	See NICE
England	neuroborreliosis (CN palsy, radiculopathy) seek advice. Description for full treatment doses/information	Alternative: amoxicillin ^{1D}	1,000mg TDS ^{1D}	for children]	NG95
Last updated: Feb 2020	Be aware that: the bacteria that cause Lyme disease are the ticks are mainly found in grassy and woode tick bites may not always be noticed infected ticks are found throughout the UK prevalence data are incomplete particularly high-risk areas are the South of England Lyme disease may be more prevalent in pacanada. Be aware that: most tick bites do not transmit Lyme disease Give people advice about: where ticks are commonly found (such as good the importance of prompt, correct tick removed the importance of prompt, correct tick removed how to check themselves and their children sources of information on Lyme disease, sucharities.	and Ireland, and although some dand Scottish Highlands but in arts of central, eastern and north grassy and wooded areas, included and how to do this (see the pellents that protect against tick of for ticks on the skin	ens and parks e areas appear to have nfection can occur in mathern Europe (including noval of the tick reduces uding urban gardens and e Public Health England	any areas Scandinav the risk of d parks) website fo	ia) and parts of Asia, transmission.	the US and





Infection	Key poir	nte	Medicine		Doses		Length	Visual	
intection	Ney points		Wedicine	Δ.	Adult	Child	Lengin	summary	
	MRSA decolonisation is not routinely recommended for patients in the community unless clinically indicated. Conditions where MRSA eradication may be considered include: • Preparation for an elective procedure where patient is identified as positive for MRSA colonisation • Management of a high-risk wound as advised by the microbiology/infection team • Management of indwelling devices as advised by the microbiology/infection team								
	Trust	Recommended Decolonisation Regimen			omments				
MRSA Decolonisation	Bart's Health NHS Trust		full guidance on microguide ap	i _k Uii	ck on healthc	are - asso	ciated infections sec	tion then	
	Barking,Havering and Redbridge University Trust	Please refer to full guidance on microguide app https://viewer.microguide.global/bhrhospitals/adult			Click on healthcare - associated infections section				
	Homerton University Hospital NHSFT	Please refer to guidance on microguide app https://viewer.microguide.global/huh/adult			croguide cont ly. Liaise with	ains the in Infection	and Control" section n-patient decolonisati Control to decide app protocol required.	on protocol	
	Advice on antibiotic treatmen For further information refer t		wounds in MRSA colonised patt guidelines.	atients can l	be obtained fr	om the ho	spital microbiology to	eam.	
▼ Eye info	ections								
Conjunctivitis Public Health England	First line: bath/clean eyelids with cotton wool dipped in sterile saline or boiled (cooled) water, to remove crusting. Definition Advice to avoid the use of contact lenses. Treat only if severe, Definition and also self-limiting. Definition also self-limiting. Definiting. Definition also self-limiting. Definition also self-limiting. Definition and Definition are self-limiting. Definition and Definition are self-limiting. Definition are self-limition are self-limition. The self-limition are self-limition are self-limition. Definition are self-limition are self-limition. Definition are self-limition are self-limition. Definition are self-limition are self-limition. Definition are self-lim		Second line: OTC (>2yrs): chloramphenicol ^{1D,2A+,4A-} ,5A+ 0.5% eye drop ^{1D,2A+} OR	for 2 days reduce fr to 3 to 4 to daily. 1D E 3 to 4 tim once dail	eye ointment: nes daily or ly at night if	BNF for children	48 hours after resolution ^{2A+,7D}	Not available. Access supporting evidence and	
Last updated: July 2019			1% ointment ^{1D,5A+} Third line: fusidic acid 1% qe ^{2A+,5A+,6A-}	using ant drops du day. ^{1D} BD ^{1D,7D}	tibiotic eye ring the	BNF for children	Tesolution	rationales on the PHE website	





Infection	Key points	Medicine	Doses		Length	Visual
		Micalonic	Adult	Child	Longin	summary
Blepharitis	First line : lid hygiene ^{1D,2A+} for symptom control, ^{1D} including: warm compresses; ^{1D,2A+} lid massage and scrubs; ^{1D} gentle washing; ^{1D} avoiding	Second line: topical OTC (>2yrs) chloramphenicol ^{1D,2A+,3A-}	1% ointment BD ^{2A+,3D}	BNF for children	6-week trial ^{3D}	Not available. Access
Public Health England	cosmetics. ^{1D} Second line : OTC topical antibiotics if hygiene measures are ineffective after 2 weeks. ^{1D,3A+}	Third line: oral oxytetracycline ^{1D,3D} OR	500mg BD ^{3D} 250mg BD ^{3D}	BNF for children	4 weeks (initial) ^{3D} 8 weeks (maint) ^{3D}	supporting evidence and rationales on the <u>PHE</u>
Last updated: Nov 2017	Signs of meibomian gland dysfunction , ^{3D} or acne rosacea: ^{3D} consider oral antibiotics. ^{1D}	oral doxycycline ^{1D,2A+,3D}	100mg OD ^{3D} 50mg OD ^{3D}	BNF for children	4 weeks (initial) ^{3D} 8 weeks (maint) ^{3D}	<u>website</u>

Suspected dental infections in primary

Derived from the <u>Scottish Dental Clinical Effectiveness Programme (SDCEP) 2013 Guidelines</u>. This guidance is not designed to be a definitive guide to oral conditions, as GPs should not be involved in dental treatment. Patients presenting to non-dental primary care services with dental problems should be directed to their regular dentist, or if this is not possible, to the NHS 111 service (in England), who will be able to provided details of how to access emergency dental care.

Note: Antibiotics do not cure toothache. 1D First-line treatment is with paracetamol 1D and/or ibuprofen; 1D codeine is not effective for toothache. 1D Should be advised to purchase OTC

Mucosal ulceration and inflammation (simple gingivitis)	Temporary pain and swelling relief can be attained with OTC saline mouthwash (½ tsp salt in warm water) ^{1D} . Use antiseptic mouthwash if more severe, ^{1D} and if pain limits oral hygiene to treat or prevent secondary infection. ^{1D,2A-} The primary	OTC chlorhexidine 0.12 to 0.2% ^{1D, 2A-,3A+,4A+} (do not use within 30 minutes of toothpaste) ^{1D} OR	Rinse with 10 ml ^{1D} for 1-minute BD	for children BNF for children	Always spit out after use. ^{1D} Use until lesions resolve ^{1D} or	Not available. Access supporting evidence and
Public Health England Last updated: Nov 2017	cause for mucosal ulceration or inflammation (aphthous ulcers; ^{1D} oral lichen planus; ^{1D} herpes simplex infection; ^{1D} oral cancer) ^{1D} needs to be evaluated and treated. ^{1D}	OTC hydrogen peroxide 6% ^{5A-1D}	Dilute 15ml in ½ glass warm water and rinse for 2 to 3 minutes BD/TDS ^{1D}	BNF for children	less pain allows for oral hygiene ^{1D}	rationales on the <u>PHE</u> <u>website</u>
Acute necrotising ulcerative gingivitis Public Health England Last updated:	Refer to dentist for scaling and hygiene advice. 1D,2D Antiseptic mouthwash if pain limits oral hygiene. 1D Commence metronidazole if systemic signs and symptoms. 1D,2D,3B-,4B+,5A-	OTC chlorhexidine 0.12 to 0.2% (do not use within 30 minutes of toothpaste) ^{1D} OR	Rinse with 10 ml ^{1D} for 1-minute BD	BNF for children	Until pain allows	Not available. Access
		OTC hydrogen peroxide 6% ^{1D}	Dilute 15ml in ½ glass warm water and rinse for 2 to 3 minutes BD/TDS ^{1D}	BNF for children	for oral hygiene ^{6D}	supporting evidence and rationales on the PHE website
Nov 2017		metronidazole ^{1D,3B-,4B+,5A-}	400mg TDS ^{1D,2D}	BNF for children	3 days ^{1D,2D}	





Infection	Key points	Medicine	Doses		Length	Visual
IIIIGGUOII			Adult	Child	Length	summary
Pericoronitis	Refer to dentist for irrigation and debridement. ^{1D} If persistent swelling or systemic symptoms, ^{1D} use	metronidazole ^{1D,2A+,3B+} OR	400mg TDS ^{1D}	BNF for children	3 days ^{1D,2A+}	
	metronidazole ^{1D,2A+,3B+} or amoxicillin. ^{1D,3B+} Use antiseptic mouthwash if pain and trismus limit oral hygiene. ^{1D}	amoxicillin ^{1D,3B+}	500mg TDS ^{1D}	BNF for children	3 days¹D	Not available. Access
Public Health England		chlorhexidine 0.2% (do not use within 30 minutes of toothpaste) ^{1D} OR	Rinse with 10 ml ^{1D} for 1-minute BD	BNF for children	Until less pain	supporting evidence and rationales on
Last updated: Nov 2017		hydrogen peroxide 6% ^{1D}	Dilute 15ml in ½ glass warm water and rinse for 2 to 3 minutes BD/TDS ^{1D}		allows for oral hygiene ^{1D}	the PHE website
Dental abscess	Regular analgesia should be the first option ^{1A+} until a dentist can be seen for urgent drainage, ^{1A+,2B-,3A+} as repeated courses of antibiotics for abscesses are not appropriate. ^{1A+,4A+} Repeated antibiotics alone, without drainage, are ineffective in preventing the spread of infection. ^{1A+,5C} Antibiotics are only recommended if there are signs of severe infection, ^{3A+} systemic symptoms, ^{1A+,2B-,4A+} or a high risk of complications. ^{1A+} Patients with severe odontogenic					
	infections (cellulitis, 1A+, 3A+ plus signs of sepsis; 3A+, 4A+ difficulty in swallowing; 6D impending airway obstruction) 8D should be referred urgently for hospital admission to protect airway, 6D for surgical drainage 3A+ and for IV antibiotics; 3A+ The empirical use of cephalosporins, 6D co-amoxiclav, 6D clarithromycin, 6D and clindamycin 6D do not offer any advantage for most dental patients, 6D and should only be used if there is no response to first-line drugs. 6D					
Public Health England	If pus is present, refer for drainage, 1A+,2B- tooth extraction, 2B- or root canal. 2B-	amoxicillin ^{6D,8B+,9C,10B+} OR	500mg to 1000mg TDS ^{6D}	BNF for children		Not available.
	Send pus for investigation. ^{1A+} If spreading infection ^{1A+} (lymph node	phenoxymethylpenicillin ¹ 1B-	500mg to 1000mg QDS ^{6D}	BNF for children	Up to 5 days; 6D,10B+ review at	Access supporting evidence and
	involvement ^{1A+,4A+} or systemic signs, ^{1A+,2B-,4A+} that is, fever ^{1A+} or malaise) ^{4A+} ADD metronidazole. ^{6D,7B+}	metronidazole ^{6D,8B+,9C}	400mg TDS ^{6D}	BNF for children	3 days ^{9C,10B+}	rationales on the <u>PHE</u>
Last updated: Oct 2018	Use clarithromycin in true penicillin allergy ^{6D} and, if severe, refer to hospital. ^{3A+,6D}	Penicillin allergy: clarithromycin ^{6D}	500mg BD ^{6D}	BNF for children		<u>website</u>





Information for Patients

- 1. NHS website complete guide to conditions, symptoms and treatments, including what to do and when to get help.
- 2. Target RCGP Treating your infection leaflet
- 3. The TARGET Treating Your Infection (TYI):

The TARGET 'Treating Your Infection' leaflets for common infections are available in **25 languages and in a pictorial format**. They all provide information on:

- Average symptom duration for common infections
- Self-care advice for patients/parents
- Safety-netting advice about when to re-consult
- Self-care Leaflet

The Managing Your Common Infection (Self-Care) leaflet can be used as a tool to increase patients' confidence and knowledge on how to self-care for their own infections thereby potentially reduce inappropriate antibiotic use.

• UTI Leaflet - Women Under 65 Years

The Treating Your Infection Urinary Tract Infection (TYI-UTI) patient information leaflet has been designed to be used with women under 65 years who are experiencing urinary symptoms suggesting uncomplicated UTIs

• UTI Leaflet - Older Adults

The Treating Your Infection Urinary Tract Infection (TYI-UTI) leaflet for older adults can be used either to provide information on UTIs to those at risk or care staff may wish to share this leaflet with older adults in their care and/or their relatives.

• UTI Leaflet - Combined For Adults

This leaflet contains information from our Treating Your Infection Urinary Tract Infection (TYI-UTI) leaflet for women under 65 years and UTI leaflet for older adults in an easily accessible booklet style format with icons and images.

RTI Leaflet

The Treating Your Infection Respiratory Tract Infection (TYI-RTI) patient information leaflet has been designed to be used with patients who are experiencing self-limiting RTIs.

• RTI Pictorial Leaflet

The leaflet can be used to provide information on RTIs. It is pictorial and uses plain English so that it is suitable for a range of community groups.

• RTI Leaflet - Other Settings

These leaflets have been designed for use in the out of hours (OOH) and pharmacy settings.

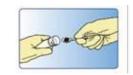




4. Other useful leaflets (not developed by TARGET)

Public Health England Stool collection leaflet (click on the picture to download the leaflet)

The stool collection leaflet is a step-by-step guide illustrating how to collect a stool sample for microbiological examination.





Antibiotic guardian leaflet (click on the image to download the leaflet)

Part of the dental antimicrobial stewardship toolkit for primary care, this leaflet highlights why antibiotics don't cure toothache and provides safety netting advice.



When should I worry? Booklet for parents and carers (click on the image to download the booklet). For other languages please visit the When Should I Worry website.

The 'When Should I Worry?' booklet provides information for parents about the management of respiratory tract infections such as coughs, colds, sore throats and ear aches in children. It is designed to be shared in consultations.



Caring for children with coughs leaflet (click on the image to download the leaflet)

This leaflet was co-created by a diverse group of parents and University of Bristol researchers. It contains information addressing the four most common parental concerns for children with RTI with cough and safety-netting advice based on NICE guidelines. The leaflet was created under a creative commons licence (attribution) which means they can be used, reproduced and distributed by anyone as long as they are clearly attributed in any report or publication and cited as: Cabral, C. Ingram, J. Redmond, N. Horwood, J. Blair, P. Hollinghurst, S. Hay, A. Lucas P. 2016, 'Caring for children with coughs: Information and advice for parents'. University of Bristol, Bristol. Foreign language translation of this leaflet are available from the <u>University of Bristol</u> website.



Get well soon without antibiotics leaflet (click on the image to download the leaflet)

This leaflet, produced by the Department of Health, explains the need to get the right treatment for common illnesses such as colds and coughs without encouraging antibiotic resistance. It is available in different languages and is suitable for distribution in waiting areas.



Antibiotics Don't Cure Toothache (click on the image to download the leaflet)

Part of the dental antimicrobial stewardship toolkit for primary care, this leaflet highlights why antibiotics don't cure toothache and provides safety netting advice.







Self-care forum fact sheets

The Self-Care Forum is dedicated to helping people take care of themselves and as such, have created a series of self-care fact sheets for common ailments which aim to help clinicians and patients discuss issues around self-care during consultation and especially how to handle the symptoms in the future. The Self Care Forum Fact Sheets can be found here and include:

- Fever in children
- Cough
- Acne
- Sore throat
- Middle ear infection (otitis media)
- Common cold in adults
- Sinusitis
- Urine symptoms in men

ELHCP Care Home Hydration and UTI Resources

UTI assessment tool for care home staff



Hydration guide for care homes



Hydration poster



All about urine leaflet 16.8.2 All about Urine



Monthly Structured Drinks Rounds Chart







Notification of Diseases

Registered medical practitioners (RMPs) have a statutory duty to notify suspected cases of certain infectious diseases (listed below). These can be notified via the North East and North Central London Health Protection Team (NENCLHPT):

• Daytime Tel: **020 3837 7084 (option 2)**

• For Out of Hours Advice: Tel: 0151 909 1215 (between 5pm and 9am and during weekends and Bank Holidays)

Email: necl.team@phe.gov.uk; phe.nenclhpt@nhs.net

Notifiable diseases

Acute encephalitis Malaria
Acute infectious hepatitis Measles

Acute meningitis

Acute poliomyelitis

Meningococcal septicaemia

Mumps

Acute poliomyelitis
Anthrax
Plague
Botulism
Brucellosis
Cholera
Mumps
Plague
Rabies
Rubella
Severe Acute Respiratory Syndrome (SARS)

Diphtheria Scarlet fever

Enteric fever (typhoid or paratyphoid fever)

Food poisoning

Haemolytic uraemic syndrome (HUS)

Infectious bloody diarrhoea

Smallpox

Tetanus

Tuberculosis

Typhus

Invasive group A streptococcal disease Viral haemorrhagic fever (VHF)

Legionnaires' disease

Viral naemorrnagic fever (V

Whooping cough

Leprosy Yellow fever





Other References

- 1. Public Health England Guidance for managing common infections, including upper and lower respiratory, and urinary tract infections. Latest review August 2020
- 2. National Institute for health and Care Excellence (NICE) Antimicrobial prescribing guidelines
- 3. NICE Clinical Knowledge Summaries
- 4. Royal College of General Practitioners Sexually Transmitted Infections
- 5. British Association for Sexual Health and HIV (BASHH)

Other useful links

- 1. TARGET Antibiotics Toolkit
- 2. <u>UK Teratology Service/Best Use of Medicines in Pregnancy</u>
- 3. Antibiotic Guardian The Antibiotic Guardian campaign encourages the public and health professionals to pledge to use antibiotics more responsibly.
- 4. <u>Bristol University resources on caring for children with coughs</u> This website was created by a collaboration of researchers and parents who talked to lots of parents about what information they wanted to know when their child had a cough.
- 5. The British Infection Association (BIA) The BIA aims to promote the science and practice of medicine in relation to infection, to support all infection specialists and trainees, and to further research into infection.
- 6. The British Society for Antimicrobial Chemotherapy (BSAC) BSAC exists to facilitate the acquisition and dissemination of knowledge in the field of antimicrobial chemotherapy.
- 7. <u>e-Bug</u> operated by Public Health England, is a free microbiology, hygiene and antibiotic educational resource for junior (9-11 years) and senior (12-15 years) school students, young adults (15-18 years) and community groups across Europe.
- 8. <u>European Centre for Disease Prevention and Control (ECDC)</u> A number of initiatives are taking place across Europe to spread the messages on the risks associated with inappropriate use of antibiotics and how to take antibiotics responsibly.
- 9. <u>Health Education England (HEE) Antimicrobial Resistance</u> <u>The</u> HEE antimicrobial resistance animation intends to assist prescribers when they are faced with somebody who incorrectly feels they should be prescribed an antibiotic.
- 10. <u>Medicines for Children</u> The Medicines for Children website provides information for parents and carers about giving medicines to children, written and reviewed by doctors, pharmacists, parents and carers.
- 11. Patient.info This website has useful patient information leaflets about all minor illnesses and self-management options.
- 12. <u>RCGP Sepsis Toolkit</u> The Sepsis toolkit provides a collection of tools, knowledge, and current guidance to support the identifying and appropriate management of patients with sepsis.
- 13. <u>Scottish Antimicrobial Prescribing Group (SAPG)</u> SAPG is a national clinical multi-disciplinary forum and its primary objective is to co-ordinate and deliver a national framework for antimicrobial stewardship to enhance the quality of antimicrobial prescribing and management in Scotland.
- 14. <u>Treat yourself better</u> The treat yourself better website has a symptom checker for cold and flu as well as the message that antibiotics do not work these symptoms.
- 15. World Antibiotic Awareness Week (WAAW) and European Antibiotic Awareness Day (EAAD) WAAW/EAAD takes place during November each year and aims to increase awareness of global antibiotic resistance and to encourage best practices among the public, health workers and policy makers to avoid the further emergence and spread of antibiotic resistance.





Key Contacts

Guideline Review Group

For further information please contact a member of the CCG based medicines management/optimisation teams

ccg		Email contact		Contact Number
East London CCG	BHR ICP	bhrmedicines.management@nhs.net (Barking and Dagenham, Havering and Redbridge)		0203 182 3133
ast Lon	СН ІСР	nelondon.cahmedicines@nhs.net (City and Hackney)		0203 816 3224
TNW ICP nelondon.tnwmedicinesoptimisation@nhs.ne (Tower Hamlets, Newham and Waltham Forest)			0203 688 2315	
Microbiology team contact		team contact	Contact details	
Barking, Havering and Redbridge University NHS Trust		•	GP Microbiologist via switchboard at Queens Telephone: 01708 435000	

Microbiology team contact	Contact details	
Barking, Havering and Redbridge University NHS Trust	GP Microbiologist via switchboard at Queens Telephone: 01708 435000	
Barts Health NHS Trust	Tower Hamlets GP phone 07710920866, WX GP enquiries WXH, bleep 422, NUH GP enquiries 07887856174	
Homerton University Hospital NHS Foundation Trust	Microbiology: air-call through switchboard Antimicrobial pharmacist: bleep 209. HUH switchboard: 0208 510 5555	

Name	Title	
Dr Albert J Mifsud	Consultant Public Health Microbiologist for South East London Public Health England London Public Health Laboratory	
Dr Mark Melzer	Consultant in Microbiology / Infectious Diseases, Barts Health	
Dr Sandra Lacey	Consultant Microbiologist, BHRuT	
Dr Alleyna Claxton	Microbiology Consultant HUHFT	
Dr Davina Sharma	Microbiology Consultant HUHFT	
Dr Sarah Hall	GP Medicines Optimisation Lead Tower Hamlets, NEL ICB	
Sanjay Patel	Deputy Chief Pharmacist, NEL ICB	
Reema Patel	Prescribing Advisor, NEL ICB	
Roberta Contino	Lead Pharmacist Vaccinations and Antimicrobials, ELFT	
Manisha Madhani	Antimicrobial Pharmacist, BHRuT	
Reshma Ali	Administrator NEL ICB	





Document version control

Version	Date	Editor	Details of update
1.0	July 2020	Reshma Ali/ Sanjay Patel (BHR CCGs)	Formatted previous infection guide and incorporated with summary table from managing common infections produced by NICE and Public Health England (PHE) information
1.1 - 1.2	Oct 2020	Sanjay Patel (BHR CCGs)	Infection Guide Updated following comments from NEL AMRSG Members comments Oct 20.xlsx
1.3	Dec 2021	Sanjay Patel (NEL CCG, BHR ICP)	Updated with NELHCP logo, contents page, new NEL CCG contacts, review group details, and links to treating your infection patient information leaflets Updated in line with newly released NICE releases for:
1.4	June 2022	Sanjay Patel (NEL CCG, BHR ICP)	Updated in line with updated NICE guideline for: • Otitis media (acute): antimicrobial prescribing [NG91]
1.5	Dec 2022	Sanjay Patel (NEL ICB)	Updated Organisations who have adopted this document (Page 2 to reflect new NEL governance for guideline approval) Updated key contacts Updated in line with updated NICE/UKHSA interim guideline: • Scarlet Fever (GAS) - NHSE/UKHSA issued interim clinical guidance on Group A Streptococcus in children. Updated North East and North Central London Health Protection Team (NENCLHPT) numbers • NICE updated NG84 acute sore throat guideline so that it applies to adults only. For children and young people, we refer users to the NHSE/UKHSA interim guidance.
1.6	Feb 2023	Sanjay Patel (NEL ICB)	Updated in line with updated NICE/UKHSA guideline: • Group A Streptococcus: reinstatement of NICE sore throat guidance for children and young people and withdrawal of NHS England interim guidance