





Summary of antimicrobial prescribing guidance – managing common infections with local amendments for Norfolk and Waveney STP.

- 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.

Key: Click to access doses for children

Lump to section on:

Click to access NICE's printable visual summary

Jump to section on:

Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	ney points	Medicine	Adult	Child	Lengin	summary
▼ Upper resp	piratory tract infections					
Acute sore throat	Advise paracetamol, or if preferred and suitable, ibuprofen for pain.	First choice: phenoxymethylpenicillin	500mg QDS or 1000mg BD		5–10 days	
inout	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)	250mg to 500mg QDS or 500mg to 1000mg BD	The second secon	5 days	
Last updated: Jan 2018	Systemically very unwell or high risk of complications: immediate antibiotic. For detailed information click the visual summary icon.		טט			

Infection	Key points	Medicine	Doses	Doses		Visual
miection	Rey points	Wicalchie	Adult	Child	Length	summary
Influenza Public Health England Last updated: Feb 2019	Annual vaccination is essential for all those 'a Treat 'at risk' patients with 5 days oseltamivir 75m for zanamivir treatment in children), ^{1D,3D} or in a ca At risk: pregnant (and up to 2 weeks post-partum asthma); significant cardiovascular disease (not h mellitus; morbid obesity (BMI>40). ^{4D} See the PHE oseltamivir resistance, use zanamivir 10mg BD ^{5A+} Access supporting evidence and rationales on the PHE	g BD, ^{1D} when influenza is circure home where influenza is like); children under 6 months; adu ypertension); severe immunose Influenza guidance for the trea (6A+ (2 inhalations twice daily by	ulating in the community Ply. ^{1D,2A+} ults 65 years or older; cl uppression; chronic neu atment of patients under	r, and idea nronic resp rological, i r 13 years.	ily within 48 hours of or piratory disease (includental or liver disease; ^{4D} In severe immunos	ding COPD and diabetes
Scarlet fever (GAS)	Prompt treatment with appropriate antibiotics	Phenoxymethylpenicillin ^{2D}	500mg QDS ^{2D}	BNF for children	10 days ^{3A+,4A+,5A+}	Not available. Access
Public Health England	significantly reduces the risk of complications. 1D Vulnerable individuals (immunocompromised, the comorbid, or those with skin disease) are at	Penicillin allergy: clarithromycin ^{2D}	250mg to 500mg BD ^{2D}	BNF for children	5 days ^{2D,5A+}	supporting evidence and rationales on the
Last updated: Oct 2018	increased risk of developing complications. 1D	Optimise analgesia ^{2D} and giv	re safety netting advice			PHE website
Acute otitis	Regular paracetamol or ibuprofen for pain (right	First choice: amoxicillin			5–7 days	
media	dose for age or weight at the right time and	Penicillin allergy: clarithromycin OR			5–7 days	Ome meda isoute's estimicrobial arearchine was
NICE Last updated: Feb 2018	Otorrhoea or under 2 years with infection in both ears: no, back-up or immediate antibiotic. Otherwise: no or back-up antibiotic. Systemically very unwell or high risk of complications: immediate antibiotic. For detailed information click on the visual summary.	erythromycin (preferred if pregnant)		The second secon	5–7 days	
Acute otitis externa	First line: analgesia for pain relief, 1D,2D and apply localised heat (such as a warm flannel).2D	Second line: topical acetic acid 2% ^{2D,4B-} OR	1 spray TDS ^{5A-}	BNF for children	7 days ^{5A} 7 days (min) to	
CATCITIA	Second line: topical acetic acid or topical antibiotic +/- steroid: similar cure at	topical neomycin sulphate with corticosteroid ^{2D,5A-}	3 drops TDS ^{5A-}	BNF for children	14 days (max) ^{3A+}	Not available. Access
Public Health England	7 days. ^{2D,3A+,4B-} If cellulitis or disease extends outside ear canal, or systemic signs of infection, start oral	If cellulitis: flucloxacillin6B+	250mg QDS ^{2D} If severe: 500mg QDS ^{2D}		7 days ^{2D}	supporting evidence and rationales on the PHE website
Last updated: Nov 2017	flucloxacillin and refer to exclude malignant otitis externa. ^{1D}	With probable FUNGAL infection: topical clotrimazole 1% solution	Apply 2-3 times a day	for children	continue for at least 14 days after disappearance of infection	

Infection	Key points	Medicine	Doses		Length	Visual
miection		Medicine	Adult	Child	Longin	summary
		First choice: phenoxymethylpenicillin	500mg QDS		5 days	
Sinusitis		Penicillin allergy: doxycycline (not in under 12s) OR	200mg on day 1, then 100mg OD		5 days	_
Sinusitis	Advise paracetamol or ibuprofen for pain. Little	clarithromycin OR	500mg BD	State State Assessment State S	5 days	
	decongestants help, but people may want to try them.	erythromycin (preferred if pregnant)	250 to 500mg QDS or 500 to 1000mg BD	Section 1 Section 2 Sectio	5 days	
NICE	Symptoms with no improvement for more than 10 days: no antibiotic or back-up antibiotic depending on likelihood of bacterial cause.	ADULT:Second choice or first choice if systemically very unwell or high risk of	200mg on day 1, then 100mg OD			Smalth-Joseph prefried in the control of the contro
	Consider high-dose nasal corticosteroid (if over 12 years). Systemically very unwell or high risk of	complications: doxycycline plus metronidazole	400mg TDS	BMF for children	5 days	
Last updated: Oct 2017	complications : immediate antibiotic. For detailed information click on the visual summary.	CHILD:Second choice or first choice if systemically very unwell	BD			
		or high risk of complications: Clarithromycin and	TDS			
_		metronidazole				
Note: Low doses	oiratory tract infections of penicillins are more likely to select for resistance, here is poor pneumococcal activity. ^{2B,3D-} Reserve a		evofloxacin) for proven re			ave long-term
Acute exacerbation of COPD	Many exacerbations are not caused by bacterial infections so will not respond to antibiotics. Consider an antibiotic, but only after taking into	First choice: amoxicillin OR	500mg TDS (see BNF for severe infection)	-		
a c	account severity of symptoms (particularly sputum colour changes and increases in volume or thickness), need for hospitalisation, previous exacerbations, hospitalisations and risk of	doxycycline OR	200mg on day 1, then 100mg OD (see BNF for severe infection)	_ 5 da	5 days	COMO joude exambadirá articlesidad provides. N.C.C.
	complications, previous sputum culture and susceptibility results, and risk of resistance with	clarithromycin	500mg BD (see BNF for severe infection)	-		
	repeated courses.	Second choice: use altern	ative first choice			

Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Rey points	Miculcine	Adult	Child	Lengui	summary
NICE	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. See also the NICE guideline on COPD in over 16s.	Alternative choice (if person at higher risk of treatment failure): co-amoxiclav OR consult microbiology	500/125mg TDS	-	5 days	
Last updated: Dec 2018		IV antibiotics (click on visu	ual summary)			
Acute cough	Some people may wish to try honey (in over 1s), the herbal medicine pelargonium (in over 12s), cough medicines containing the expectorant	Adults first choice: doxycycline	200mg on day 1, then 100mg OD	-		
	guaifenesin (in over 12s) or cough medicines containing cough suppressants, except codeine, (in over 12s). These self-care treatments have limited evidence for the relief of cough symptoms.	Adults alternative first choices: amoxicillin OR	500mg TDS	-		
	Acute cough with upper respiratory tract	clarithromycin OR	250mg to 500mg BD	-		
	infection: no antibiotic. Acute bronchitis: no routine antibiotic.	erythromycin (preferred if	250mg to 500mg QDS or	_	5 days	Cough located antimicrobial prescribing with an incident and a second sec
NICE	Acute cough and higher risk of complications (at face-to-face examination): immediate or	pregnant)	500mg to 1000mg BD		Juays	
	back-up antibiotic.	Children first choice:	-			
	Acute cough and systemically very unwell (at face to face examination): immediate antibiotic.	amoxicillin				
	Higher risk of complications includes people with pre-existing comorbidity; young children born	Children alternative first choices:	-	The second secon		
	prematurely; people over 65 with 2 or more of, or	clarithromycin OR				
	over 80 with 1 or more of: hospitalisation in previous year, type 1 or 2 diabetes, history of	erythromycin OR	-	-		

Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Key points	Wedicine	Adult	Child	Lengin	summary
	congestive heart failure, current use of oral corticosteroids.	doxycycline (not in under 12s)	-			
	Do not offer a mucolytic, an oral or inhaled bronchodilator, or an oral or inhaled corticosteroid unless otherwise indicated.					
Last updated: Feb 2019	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).					
	Use CRB65 score to guide mortality risk, place of	CRB65=0:				
Community-	care, and antibiotics. ^{1D} Each CRB65 parameter	amoxicillin ^{1D,4D} OR	500mg TDS ^{5A+}	BNF for children	5 days (review at	
acquired pneumonia	scores one: C onfusion (AMT<8 or new disorientation in person, place or time);	clarithromycin ^{2A+,4D,5A+} OR	500mg BD ^{5A+}	BNF for children	3 days); ^{1D}	
pireumoma	Respiratory rate >30/minute; BP systolic <90, or diastolic <60; age >65.	doxycycline ^{2A+,4D}	200mg stat then 100mg OD ^{6A-}	-	7–10 days if poor response ^{1D}	Not available.
Public Health England	Score 0: low risk, consider home-based care; 1–2: intermediate risk, consider hospital assessment; 3–4: urgent hospital admission. ^{1D}	CRB65 = 1–2 and at home: Clinically assess need for dual therapy for atypicals: amoxicillin ^{1D, 4D} AND	500mm TDC54+	BNF for children	7. 40 days10	Access supporting evidence and rationales on the PHE website
	Give safety net advice ^{1D} and likely duration of different symptoms, such as cough 6 weeks. ^{1D}	clarithromycin ^{2A+,4D,5A+} OR	500mg TDS ^{5A+} 500mg BD ^{5A+}	BNF for children	7–10 days¹D	
Last updated: Nov 2017	Clinically assess need for dual therapy for	Ciantinomycin ² (17, 18, 18)		for children		
100 2017	atypicals. Mycoplasma infection is rare in over 65s. ^{2A+,3C}	doxycycline alone ^{4D}	200mg stat then 100mg OD ^{6A-}	-		
▼ Urinary tra	ct infections		J			
Lower urinary tract infection	Advise paracetamol or ibuprofen for pain. Non-pregnant women: back up antibiotic (to use if no improvement in 48 hours or symptoms worsen at any time) or immediate antibiotic.	Non-pregnant women first choice: nitrofurantoin (if eGFR ≥45 ml/minute) OR	100mg m/r BD	-	3 days	Util Based and administrating to the second
	Pregnant women, men, children or young people: immediate antibiotic.	trimethoprim (if low risk of resistance and UNDER 65 years)	200mg BD	-	3 days	The second secon

Infection	Key points	Medicine	Doses		Length	Visual
miection	Rey points	Wedicine	Adult	Child	Lengin	summary
NICE	When considering antibiotics, take account of severity of symptoms, risk of complications, previous urine culture and susceptibility results, previous antibiotic use which may have led to	Non-pregnant women second choice: nitrofurantoin (if eGFR ≥45 ml/minute OR	100mg m/r BD	-	3 days	
	resistant bacteria and local antimicrobial resistance data.	pivmecillinam (a penicillin) OR	400mg initial dose, then 200mg TDS	-	3 days	
	For detailed information click on the visual summary. See also the NICE guideline on <u>urinary tract infection</u> in under 16s: diagnosis and management.	Seek advice from microbiology		-		
Last updated: Oct 2018		Pregnant women first choice: nitrofurantoin (avoid at term) – if eGFR ≥45 ml/minute	100mg m/r BD	-	7 days	
		Pregnant women second choice: amoxicillin (only if culture results available and susceptible) OR	500mg TDS	-	7 days	
		cefalexin	500mg BD	-	7 days	
		Treatment of asymptomatic nitrofurantoin (avoid at term) susceptibility results				
		Men first choice: nitrofurantoin (if eGFR ≥45 ml/minute) OR	100mg m/r BD	-	7 days	
		Trimethoprim in UNDER 65s only	200mg BD	-	7 days	-
		Men second choice: consider recent culture and susceptible		s basing ar	ntibiotic choice on	
		Children and young people (3 months and over) first choice: trimethoprim (if low risk of resistance) OR	-	100 100 100 100 100 100 100 100 100 100	3 days	

Infection	Key points	Medicine	Doses		Length	Visual
mection	Key points	Medicine	Adult	Child	Lengin	summary
		nitrofurantoin (if eGFR ≥45 ml/minute)	-			
		Children and young people (3 months and over) second choice: nitrofurantoin (if eGFR ≥45 ml/minute and not used as first choice) OR	-			
		amoxicillin (only if culture results available and susceptible) OR	-			
		cefalexin	-			
Acute pyelonephritis (upper urinary tract)	Advise paracetamol (+/- low-dose weak opioid) for pain for people over 12. Offer an antibiotic. When prescribing antibiotics, take account of	Non-pregnant women and men first choice: cefalexin OR	500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections)	-	7–10 days	
	severity of symptoms, risk of complications, previous urine culture and susceptibility results, previous antibiotic use which may have led to	co-amoxiclav (only if culture results available and susceptible) OR	500/125mg TDS	-	7–10 days	
	resistant bacteria and local antimicrobial resistance data. For detailed information click on the visual summary.	trimethoprim (only if culture results available and susceptible) OR	200mg BD	-	14 days	Protocolitis locate principality processing and a
NICE	See also the NICE guideline on <u>urinary tract infection</u> in under 16s: diagnosis and management.	ciprofloxacin (consider safety issues)	500mg BD	-	7 days	
		Pregnant women first choice: cefalexin	500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections)	-	7–10 days	
		Pregnant women second choice - consult microbiology	-	-	-	

Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Rey points	Medicine	Adult	Child	Length	summary
Last updated: Oct 2018		Children and young people (3 months and over) first choice: cefalexin OR	-	The second secon	-	
		co-amoxiclav (only if culture results available and susceptible)	-	-	-	
Recurrent urinary tract infection	First advise about behavioural and personal hygiene measures, and self-care (with D-mannose or cranberry products) to reduce the risk of UTI.	First choice antibiotic prophylaxis: trimethoprim (avoid in pregnancy) OR	200mg single dose when exposed to a trigger or 100mg at night	The second secon	- Review at 6 months	
	For postmenopausal women , if no improvement, consider vaginal oestrogen (review within 12 months). For non-pregnant women, if no improvement,	nitrofurantoin (avoid at term) - if eGFR ≥45 ml/minute	100mg single dose when exposed to a trigger or 50 to 100mg at night	The second secon	- Review at 6 months	UT jesternetij pritekodnia pracebbig MX urmo.
NICE	consider single-dose antibiotic prophylaxis for exposure to a trigger (review within 6 months). For non-pregnant women (if no improvement or no identifiable trigger) or with specialist advice	Second choice antibiotic prophylaxis: amoxicillin OR	500mg single dose when exposed to a trigger or 250mg at night	The second secon	- Review at 6 months	
	for pregnant women, men, children or young people, consider a trial of daily antibiotic prophylaxis (review within 6 months).	cefalexin	500mg single dose when exposed to a trigger or	The second secon	- - Review at 6 months	
Last updated: Oct 2018	For detailed information click on the visual summary. See also the NICE guideline on <u>urinary tract infection</u> in under 16s: diagnosis and management.		125mg at night			

Infection	Voy nointo	Medicine	Doses		Longth	Visual	
infection	Key points	weatcine	Adult	Child	Length	summary	
Catheter- associated urinary tract infection	Antibiotic treatment is not routinely needed for asymptomatic bacteriuria in people with a urinary catheter. Consider removing or, if not possible, changing the catheter if it has been in place for more than	Non-pregnant women and men first choice if no upper UTI symptoms: nitrofurantoin (if eGFR ≥45 ml/minute) OR	100mg m/r BD	-			
	7 days. But do not delay antibiotic treatment. Advise paracetamol for pain. Advise drinking enough fluids to avoid	trimethoprim (if low risk of resistance and UNDER 65 years) OR	200mg BD	-	7 days	7 days	
	dehydration. Offer an antibiotic for a symptomatic infection. When prescribing antibiotics, take account of	amoxicillin (only if culture results available and susceptible)	500mg TDS	-			
NICE	severity of symptoms, risk of complications, previous urine culture and susceptibility results, previous antibiotic use which may have led to	Non-pregnant women and men second choice if no upper UTI symptoms:	400mg initial dose, then 200mg TDS	-	7 days		
	resistant bacteria and local antimicrobial resistance data. Do not routinely offer antibiotic prophylaxis to people with a short-term or long-term catheter. For detailed information click on the visual summary.	pivmecillinam (a penicillin) 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)	-	7–10 days	UT furthern artinization preceding and a second	
		co-amoxiclav (only if culture results available and susceptible) OR	500/125mg TDS	-			
Last updated: Nov 2018		trimethoprim (only if culture results available and susceptible) OR	200mg BD	-	14 days	***	
		ciprofloxacin (consider safety issues)	500mg BD	-	7 days		
		Pregnant women first choice: cefalexin	500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections)	-	7–10 days		
		Pregnant women second choice or IV antibiotics (click on visual summary)	-	-	-		

Infection	Key points	Medicine	Doses		Length	Visual
miection	Key points	Weatcine	Adult	Child	Lengin	summary
		Children and young people (3 months and over) first choice: trimethoprim (if low risk of resistance) OR	-	The second secon		
		amoxicillin (only if culture results available and susceptible) OR	-	The second secon		
		cefalexin OR	-			
		co-amoxiclav (only if culture results available and susceptible)	-	Comment of the commen		
Acute prostatitis		First choice (guided susceptibilities when available): ciprofloxacin OR	500mg BD	-	14 days then review	
	Offer antibiotic.	ofloxacin OR	200mg BD	-	14 days then review	
NICE	Review antibiotic treatment after 14 days and either stop antibiotics or continue for a further 14 days if needed (based on assessment of	trimethoprim (if unable to take quinolone)	200mg BD	-	14 days, then review	Total control services processed and the service
	history, symptoms, clinical examination, urine and blood tests). For detailed information click on the visual	Second choice (after discussion with specialist): levofloxacin OR	500mg OD	-	14 days, then review	
Last updated: Oct 2018	summary.	co-trimoxazole	960mg BD	-	14 days, then review	
▼ Meningitis						
Suspected meningococcal disease Public Health England Last updated: Feb 2019	Transfer all patients to hospital immediately. 1D If time before hospital admission, 2D,3A+ if suspected meningococcal septicaemia or non-blanching rash, 2D,4D give IV benzylpenicillin 1D,2D,4D as soon as possible. 2D Do not give IV antibiotics if there is a definite history of anaphylaxis; 1D rash is not a contraindication. 1D	IV or IM benzylpenicillin ^{1D,2D}	Child <1 year: 300mg ⁵ Child 1–9 years: 600m Adult/child 10+ years:	g ^{5D}	Stat dose; ^{1D} give IM, if vein cannot be accessed ^{1D}	Not available. Access the supporting evidence and rationales on the PHE website

Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Rey points	Medicine	Adult	Child	Lengui	summary
Prevention of secondary case of meningitis Public Health England Last updated: Nov 2017	Only prescribe following advice from your local he Out of hours: contact on-call doctor: Access the supporting evidence and rationales on the F	·	ltant:			
▼ Gastrointe	stinal tract infections					
Oral candidiasis	Topical azoles are more effective than topical nystatin. ^{1A+}	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.
Public Health England	Oral candidiasis is rare in immunocompetent adults; ^{2D} consider undiagnosed risk factors, including HIV. ^{2D}	If miconazole not tolerated or contraindicated: nystatin	1ml; 100,000units/mL QDS (half in each	BNF for children	7 days; continue for 2 days after resolved ^{4D}	Access supporting evidence and rationales on the
	Use 50mg fluconazole if extensive/severe candidiasis; 3D,4D if HIV or immunocompromised,	suspension ^{2D,6D,7A} -	side) ^{2D,4D,7A} -			PHE website
Last updated: Oct 2018	use 100mg fluconazole.3D,4D	fluconazole capsules ^{6D,7A-}	50mg/100mg OD ^{3D,6D,8A-}	BNF for children	7 to 14 days ^{6D,7A-} ,8A-	
Infectious	Refer previously healthy children with acute painfu	ıl or bloody diarrhoea, to exclu	de <i>E. coli</i> O157 infection	າ. ^{1D}		
diarrhoea	Antibiotic therapy is not usually indicated unle					ected (such as
Public Health	undercooked meat and abdominal pain), ^{3D} consider	er clarithromycin 250–500mg E	BD for 5–7 days, if treate	ed early (w	vithin 3 days).3D,4A+	
England	Otherwise consult microbiology. Access the supporting evidence and rationales on the F	OUE website				
	Access the supporting evidence and rationales on the F	THE Website.				
Last updated: Oct 2018						
Helicobacter	Always test for <i>H.pylori</i> before giving antibiotics.	Always use PPI ^{2D,3D,5A+,12A+}			7 days ^{2D}	
pylori	Treat all positives, if known DU, GU, ^{1A+} or low-grade MALToma. ^{2D,3D} NNT in non-ulcer dyspepsia: 14. ^{4A+}	First line and first relapse and no penicillin allergy PPI PLUS 2 antibiotics	- BD	BNF for children	MALToma 14 days ^{7A+,16A+}	Not available. Access
	Do not offer eradication for GORD. ^{3D} Do not use clarithromycin, metronidazole or	amoxicillin ^{2D,6B+} PLUS	1000mg BD ^{14A+}	BMF for children		supporting evidence and
	quinolone if used in the past year for any infection. 5A+,6B+,7A+	clarithromycin ^{2D,6B+} OR	500mg BD ^{8A-}	BNF for children		rationales on the PHE website
		metronidazole ^{2D,6B+}	400mg BD ^{2D}	BMF for children		

Infection	Key points	Medicine	Doses		Longth	Visual
infection		weatcine	Adult	Child	Length	summary
Public Health England	Local Guidelines from gastroenterology consultant.	Penicillin allergy: PPI WITH PLUS 2 antibiotics	- BD	-	10 days	
		metronidazole ^{2D} PLUS	400mg BD ^{2D}	BNF for children	10 dayo	
_	Retest for <i>H. pylori</i> : post DU/GU, or relapse	clarithromycin ^{2D,6B+}	500mg BD ^{8A-}			
See PHE quick reference guide for diagnostic advice: PHE H. pylori	uide SAT, ^{10A+,11A+} consider referral for endoscopy and culture. ^{2D}	Second line: and NO previous fluoroquinolones: Esomeprazole PLUS 2 antibiotics	40mg BD	-	10 days	
		amoxicillin ^{2D,7A+} OR	1000mg BD ^{14A+}	BNF for children		
		if allergic to penicillin metronidazole ^{2D,6B+} PLUS	400mg BD ^{2D}			
		levofloxacin ^{2D,7A+} PLUS	500mg BD ^{7A+}			
Last updated: Feb 2019		Second line: and previous fluoroquinolones PPI Esomeprazole WITH	40mg BD	-	14 days	
		Tetracycline PLUS	500mg QDS	-		
		metronidazole ^{2D,6B+}	400mg BD ^{2D}	-		
Clostridium difficile	Review need for antibiotics, 1D,2D PPIs, 3B- and antiperistaltic agents and discontinue use where	First episode: metronidazole ^{2D,4B-}	400mg TDS ^{1D,2D}	BNF for children	10–14 days ^{1D,4B-}	
	possible. ^{2D} Mild cases (<4 episodes of stool/day) may respond without metronidazole; ^{2D} 70% respond to metronidazole in 5 days; 92%	Severe, type 027 or recurrent: oral vancomycin ^{1D,2D,5A-}	125mg QDS ^{1D,2D,5A-}	BNF for children	10–14 days, ^{1D,2D} then taper ^{2D}	Not available. Access
Public Health	respond to metronidazole in 3 days, 92 % respond to metronidazole in 14 days. 4B-					supporting evidence and
England Last updated: Oct 2018	If severe (T>38.5, or WCC>15, rising creatinine, or signs/symptoms of severe colitis): ^{2D} treat with oral vancomycin, ^{1D,2D,5A} review progress closely, ^{1D,2D} and consider hospital referral. ^{2D}	Recurrent or second line: fidaxomicin ^{2D,5A-}	200mg BD ^{5A-}	-	10 days ^{5A-}	rationales on the PHE website

Infection	Key points	Medicine	Doses	Doses		Visual
miection		Medicine	Adult	Child	Length	summary
Traveller's diarrhoea	Prophylaxis rarely, if ever, indicated. ^{1D} Consider	Standby: azithromycin (private prescription)	500mg OD ^{1D,3A+}	-	1–3 days ^{1D,2D,3A+}	Not available. Access
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 (Pepto Bismol available OTC)	2 tablets QDS ^{1D,2D}	-	2 days ^{1D,2D,4A} -	supporting evidence and rationales on the PHE website
Threadworm	Treat all household contacts at the same time. ^{1D} Advise hygiene measures for 2 weeks ^{1D}	Child >6 months: mebendazole ^{1D,3B-}	100mg stat ^{3B-}	BNF for children	1 dose; ^{3B-} repeat in 2 weeks if persistent ^{3B-}	Not available. Access
Public Health England	(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 or pregnant (at least in first trimester):	_	_	-	supporting evidence and rationales on the
Last updated: Nov 2017	Child <6 months , add perianal wet wiping or washes 3 hourly. 1D	only hygiene measure for 6 weeks ^{1D}				PHE website
▼ Genital tra	ct infections					
Public Health England Last updated: Nov 2017	People with risk factors should be screened for che Risk factors: <25 years; no condom use; recent/faccess the supporting evidence and rationales on the I	frequent change of partner; syl		-		
Chlamydia trachomatis/ urethritis	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+}	Not available. Access supporting evidence and

Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Key points	Wedicitie	Adult	Child	Lengin	summary
Public Health England	If positive, treat index case, refer to GUM and initiate partner notification, testing and treatment. ^{2D,3A+}					rationales on the PHE website
Last updated: Feb 2019	As single dose azithromycin has led to increased resistance in GU infections, doxycycline should be used first line for chlamydia and urethritis. AA+ Advise patient to abstain from sexual intercourse for 7 days after treatment. AA+AA+	th				
	Test positives for reinfection at 3 months following treatment. 1B-,5B-					
	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		1000mg ^{4A+,11A-,12A+} then		Stat ^{4A+,11A-,12A+}	
	end of treatment. ^{3A+}		500mg OD ^{4A+,11A-,12A+}		2 days ^{4A+,11A-,12A+}	
	Consider referring all patients with symptomatic urethritis to GUM as testing should include <i>Mycoplasma genitalium</i> and <i>Gonorrhoea</i> . 11A-				(total 3 days)	
	If <i>M.genitalium</i> is proven, use doxycycline followed by azithromycin using the same dosing regimen. ^{11A-,12A+}					
Epididymitis		Doxycycline ^{1A+,2D} OR	100mg BD ^{1A+,2D}		10 to 14 days ^{1A+,2D}	Not available.
	Usually due to Gram-negative enteric bacteria in	ofloxacin ^{1A+,2D} OR	200mg BD ^{1A+,2D}	-	14 days ^{1A+,2D}	Access supporting
Public Health England Last updated: Nov 2017	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 east updated:	ciprofloxacin ^{1A+,2D}	500mg BD ^{1A+,2D,3A+}		10 days ^{1A+,2D,3A+}	evidence and rationales on the PHE website

Infection	Voy points	Medicine	Doses		Longth	Visual
intection	Key points	weatcine	Adult	Child	Length	summary
Vaginal	All topical and oral azoles give over 80%	Clotrimazole ^{1A+,5D} OR	500mg pessary1A+		Stat ^{1A+}	
candidiasis	cure. 1A+,2A+	clotrimazole ^{1A+} OR	100mg pessary ^{1A+}		6 nights ^{1A+}	Not oveilable
	Pregnant: avoid oral azoles, the 7 day courses	oral fluconazole ^{1A+,3D}	150mg ^{1A+,3D}		Stat ^{1A+}	Not available. Access
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+}	supporting evidence and rationales on the PHE website
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}		7 days ^{1A+} OR Stat ^{2D}	Not available. Access
Public Health England	7 days results in fewer relapses than 2g stat at 4 weeks. 1A+,2D	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 the PHE website
Last updated: Nov 2017	Pregnant/breastfeeding: avoid 2g dose. ^{3A+,4D} Treating partners does not reduce relapse. ^{5A+}	clindamycin 2% cream ^{1A+,2D}	5g applicator at night ^{1A+,2D}		7 nights ^{1A+,2D,3A+}	
Genital herpes	Advise: saline bathing,1A+ analgesia,1A+ or		400mg TDS ^{1A+,3A+}		5 days ^{1A+}	 Not available.
•	topical lidocaine for pain, ^{1A+} and discuss transmission. ^{1A+}	Oral aciclovir ^{1A+,2D,3A+,4A+} OR	800mg TDS (if recurrent)1A+		2 days ^{1A+}	
Public Health England	First episode : treat within 5 days if new lesions or systemic symptoms, ^{1A+,2D} and refer to GUM. ^{2D}					Access supporting evidence and
Last updated: Nov 2017	Recurrent: self-care if mild, ^{2D} or immediate short course antiviral treatment, ^{1A+,2D} or suppressive therapy if more than 6 episodes per year. ^{1A+,2D}	valaciclovir ^{1A+,3A+,4A+} OR	500mg BD ^{1A+}		5 days ^{1A+}	rationales on the PHE website
	Antibiotic resistance is now very high. 1D,2D	20.00			0 0D	
Gonorrhoea Public Health	Use IM ceftriaxone if susceptibility not known prior to treatment ^{2D} .	Ceftriaxone ^{2D} OR	1000mg IM ^{2D}	Stat ^{2D} - Stat ^{2D}	Stat ^{2D}	Not available. Access
England Last updated: Feb 2019	Use Ciprofloxacin only If susceptibility is known prior to treatment and the isolate is sensitive to ciprofloxacin at all sites of infection ^{1D,2D} Refer to GUM. ^{3B-} Test of cure is essential. ^{2D}	ciprofloxacin ^{2D} (only if known to be sensitive)	500mg ^{2D}		Stat ^{2D}	supporting evidence and rationales on the PHE website

Infection	Key points	Medicine	Doses		Length	Visual
IIIIection		Medicille	Adult	Child	Lengui	summary
Trichomoniasis	Oral treatment needed as extravaginal infection		400mg BD ^{1A+,6A+}		5–7 day ^{1A+}	
Public Health	common. ^{1D}	Metronidazole ^{1A+,2A+,3D,6A+}	2g (more adverse effects) ^{6A+}		Stat ^{1A+,6A+}	Not available.
England Last updated: Nov 2017	th Treat partners, ^{1D} and refer to GUM for other STIs. ^{1D} Pregnant/breastfeeding: avoid 2g single dose metronidazole; ^{2A+,3D} clotrimazole for symptom relief (not cure) if metronidazole declined. ^{2A+,4A-,5D}	Pregnancy to treat symptoms: clotrimazole ^{2A+,4A-,5D}	100mg pessary at night ^{5D}	-	6 nights ^{5D}	Access supporting evidence and rationales on the PHE website
Pelvic	Refer women and sexual contacts to GUM.1A+	First line therapy:				
inflammatory	Raised CRP supports diagnosis, absent pus	Cefixime PLUS	400mg		Stat	
cells in HVS smear good negative predictive	metronidazole ^{1A+,5A+} PLUS	400mg BD ^{1A+}		14 days ^{1A+}		
	value. 1A+ Exclude : ectopic pregnancy, appendicitis, endometriosis, UTI, irritable bowel, complicated ovarian cyst, functional pain.	doxycycline ^{1A+,5A+}	100mg BD ^{1A+}		14 days ^{1A+}	Not available.
Dublic Health		Second line therapy: metronidazole ^{1A+,5A+} PLUS	400mg BD ^{1A+}	-	14 days ^{1A+}	Access supporting evidence and
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+}	rationales on the PHE website
Last updated: Feb 2019	chlamydia, and <i>M. genitalium</i> . ^{1A+} <i>If M. genitalium</i> tests positive use moxifloxacin. ^{1A+} as advised by microbiology	moxifloxacin alone ^{1A+} (first line for <i>M. genitalium</i> associated <i>PID</i>)	400mg OD ^{1A+}		14 days ^{1A+}	
▼ Skin and s	oft tissue infections					
Note: Refer to RCG	<u> P Skin Infections</u> online training. ^{1D} For MRSA, discuss th	erapy with microbiologist.1D				
Impetigo	Reserve topical antibiotics for very localised	Topical fusidic acid ^{2D,3A+}	Thinly TDS ^{4D}	BNF for children	5 days ^{1D,2D}	
Public Health	lesions to reduce risk of bacteria becoming resistant. 1D,2B+ Only use mupirocin if caused by	If MRSA: topical mupirocin ^{3A+}	2% ointment TDS ^{3A+}	BNF for children	5 days ^{1D,2D,3A+}	Not available. Access supporting
England	MRSA. ^{1D,3A+} Extensive, severe, or bullous: oral	More severe: oral flucloxacillin ^{1D,3A+} OR	250 to 500mg QDS ^{3A+}	BNF for children	7 days ^{3A+}	evidence and rationales on the
Last updated: Nov 2017	ast updated: antibiotics. ^{4D}	oral clarithromycin ^{1D,4D}	250 to 500mg BD ^{1D,4D}	BNF for children	7 days ^{4D}	PHE website

Infection	Key points	Medicine	Doses		Length	Visual
Cold sores Public Health England Last updated: Nov 2017	Most resolve after 5 days without treatment. 1A: If frequent, severe, and predictable triggers: co Access supporting evidence and rationales on the PHE	onsider oral prophylaxis:4D,5A+ a	•		12 to 18 hours. ^{1A-,2A-,3}	summary BA-
PVL-SA Public Health England Last updated: Nov 2017	Panton-Valentine leukocidin (PVL) is a toxin prod people, but severe. ^{2B+} Suppression therapy should only be started after Risk factors for PVL: recurrent skin infections; ^{2B} (school children; ^{3B-} military personnel; ^{3B-} nursing haccess the supporting evidence and rationales on the particular personnels.	er primary infection has resolved thinvasive infections; ^{2B+} MSM; ^{3I} nome residents; ^{3B-} household c	d, as ineffective if lesions if there is more than or	s are still l	eaking. ^{4D}	·
Eczema Public Health England Last updated: Nov 2017	No visible signs of infection: antibiotic use (alor With visible signs of infection: use oral flucloxal Access the supporting evidence and rationales on the	cillin ^{2D} or clarithromycin, ^{2D} or to		•	-	
Leg ulcer Public Health England	Ulcers are always colonised. 1C,2A+ Antibiotics do not improve healing unless active	Flucloxacillin ^{5D} OR clarithromycin ^{5D}	500mg QDS ^{5D} 500mg BD ^{5D}	BMF for children	7 days If slow response continue for another 7 days ^{5D}	Not available. Access supporting
Last updated: Feb 2019	infection ^{2A+} (only consider if purulent exudate/odour; increased pain; cellulitis; pyrexia). ^{3D}	Non-healing ulcers : antimicrobial-reactive oxygen gel may reduce bacterial load. ^{6D,7B} -				evidence and rationales on the PHE website
Acne	Mild (open and closed comedones) ^{1D} or moderate (inflammatory lesions): ^{1D} First line: self-care ^{1D} (wash with mild soap; do not scrub; avoid make-up). ^{1D}	Second line: topical retinoid ^{1D,2D,3A+} OR benzoyl peroxide ^{1A-,2D,3A+,4A-}	Thinly OD ^{3A+} 5% cream OD-BD ^{3A+}	BMF for children	6–8 weeks ^{1D}	Not available.
Public Health England	Second line: topical retinoid or benzoyl peroxide. ^{2D} Third-line: add topical antibiotic, ^{1D,3A+} or consider addition of oral antibiotic. ^{1D}	Third-line: topical clindamycin ^{3A+} If treatment failure/severe:	1% cream, thinly BD ^{3A+}	BNF for children	12 weeks ^{1A-,2D} 6–12 weeks ^{3A+}	Access supporting evidence and rationales on the PHE website
Last updated: Nov 2017	Severe (nodules and cysts): ^{1D} add oral antibiotic (for 3 months max) ^{1D,3A+} and refer. ^{1D,2D}	oral tetracycline ^{1A-,3A} + OR oral doxycycline ^{3A+,4A-}	100mg OD ^{3A+}	BNF for children	6–12 weeks ^{3A+}	<u>rnc website</u>

Infection	Key points	Medicine	Doses		Length	Visual
intection	Key points	Wedicine	Adult	Child	Length	summary
Cellulitis and	Class I: patient afebrile and healthy other than cellulitis, use oral flucloxacillin alone. 1D,2D,3A+	Flucloxacillin ^{1D,2D,3A+}	500mg QDS ^{1D,2D}	BNF for children		
erysipelas	If river or sea water exposure: seek advice. 1D Class II: patient febrile and ill, or comorbidity,	Penicillin allergy: clarithromycin ^{1D,2D,3A+,6A+}	500mg BD ^{1D,2D}	BNF for children	7 days; ^{1D} if slow response, continue for a further 7 days ^{1D}	
Public Health England	admit for IV treatment, ^{1D} or use outpatient parenteral antimicrobial therapy. ^{1D} Class III: if toxic appearance, admit. ^{1D}	Penicillin allergy and taking statins: doxycycline ^{2D}	200mg stat then 100mg OD ^{2D}	BNF for children		Not available. Access supporting evidence and
Last updated: Oct 2018	Adding clindamycin does not improve outcomes ^{4B+} Erysipelas : often facial and unilateral. ^{5B+} Use flucloxacillin for non-facial	Facial (non-dental): co-amoxiclav ^{7B-}	500/125mg TDS ^{1D}	BMF for children		rationales on the PHE website
		Prophylaxis/treatment all: co-amoxiclav ^{2D,3D}	375–625mg TDS ^{3D}	BNF for children	7 days3D	
		Human penicillin allergy: metronidazole ^{3D,4A+} AND clarithromycin ^{3D,4A+}	400mg TDS ^{2D} 250mg–500mg BD ^{2D}	BNF for children	- 7 days³D	
Bites	Human : thorough irrigation is important. ^{1A+,2D} Antibiotic prophylaxis is advised. ^{1A+,2D,3D} Assess risk of tetanus, rabies, ^{1A+} HIV, and hepatitis B	Animal penicillin allergy: metronidazole ^{3D,4A+} AND	400mg TDS ^{2D}	for children BNF for children	7 days ^{3D}	Not available. Access supporting evidence and rationales on the PHE website
Public Health	and C. ^{3D} Cat : always give prophylaxis. ^{1A+,3D}	doxycycline ^{3D}	100mg BD ^{2D}	BNF for children		
England Last updated: Oct 2018	Dog : give prophylaxis if: puncture wound; 1A+,3D bite to hand, foot, face, joint, tendon, or ligament; 1A+ immunocompromised; cirrhotic; asplenic; or presence of prosthetic valve/joint. 2D,4A+	If pregnant, and rash after penicillin: ceftriaxone ^{5C}	1–2g OD IV or IM ^{5C}	-		
Oct 2018	48 hours, ^{3D} as not all pathogens are covered. ^{2D,3}		1–2g OD IV or IM ^{5C}	-	NA	

Infantion	Voy points	Madiaire	Doses		Longth	Visual
Infection	Key points	Medicine	Adult	Child	Length	summary
	First choice permethrin: Treat whole body from ear/chin downwards, 1D,2D and under nails. 1D,2D	Permethrin ^{1D,2D,3A+}	5% cream ^{1D,2D}	BNF for children	_	
Public Health England Last updated: Oct 2018	If using permethrin and patient is under 2 years, elderly or immunosuppressed, or if treating with malathion: also treat face and scalp. ^{1D,2D} Home/sexual contacts: treat within 24 hours. ^{1D}	Permethrin allergy: malathion ^{1D}	0.5% aqueous liquid ^{1D}	BMF for children	2 applications, 1 week apart ^{1D}	Not available. Access supporting evidence and rationales on the PHE website
Mastitis	S. aureus is the most common infecting	Flucloxacillin ^{2D}	500mg QDS ^{2D}			Not available
Public Health	pathogen. ^{1D} Suspect if woman has: a painful breast; ^{2D} fever and/or general malaise; ^{2D} a	Penicillin allergy: erythromycin ^{2D} OR	250–500mg QDS ^{2D}			Not available. Access supporting
England Last updated:	tender, red breast. ^{2D} Breastfeeding : oral antibiotics are appropriate, where indicated. ^{2D,3A+} Women should continue	clarithromycin ^{2D}	500mg BD ^{2D}	-	10–14 days ^{2D}	evidence and rationales on the PHE website
Nov 2017	feeding, 1D,2D including from the affected breast. 2D Most cases : use terbinafine as fungicidal,	Topical terbinafine ^{3A+,4D} OR	1% OD to BD ^{2A+}	BNF	1–4 weeks ^{3A+}	
Dermatophyte infection: skin	treatment time shorter and more effective than with fungistatic imidazoles or undecenoates. 1D,2A+, If candida possible, use	topical imidazole ^{2A+,3A+}	1% OD to BD ^{2A+}	for children BNF for children	4–6 weeks ^{2A+,3A+}	Not available.
Public Health England Last updated: Feb 2019	imidazole. ^{4D} 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}	Alternative in athlete's foot: topical undecenoates2A+ (such as Mycota®)2A+	OD to BD ^{2A+}	BMF for children		Access supporting evidence and rationales on the <u>PHE website</u>
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	First line: terbinafine ^{1D,2A+,3A+,4D,6D}	250mg OD ^{1D,2A+,6D}	BNF for children	Fingers: 6 weeks ^{1D,6D} Toes: 12 weeks ^{1D,6D}	Not available. Access supporting
Public Health England	candida or non-dermatophyte infection is confirmed, use oral itraconazole. 1D,3A+,4D Topical nail lacquer is not as effective. 1D,5A+,6D	Second line: itraconazole ^{1D,3A+,4D,6D}	200mg BD ^{1D,4D}	BNF for children	1 week a month ^{1D} Fingers: 2 courses ^{1D} Toes: 3 courses ^{1D}	evidence and rationales on the PHE website

Infection	Voy points	Medicine	Doses		Longth	Visual
intection	Key points	weatcine	Adult	Child	Length	summary
Last updated: Oct 2018	To prevent recurrence: apply weekly 1% topical antifungal cream to entire toe area. 6D Children: seek specialist advice. 4D	Stop treatment when continu	al, new, healthy, proxim	al nail gro	wth. ^{6D}	
Varicella zoster/ chickenpox	Pregnant/immunocompromised/ neonate: seek urgent specialist advice. 1D Chickenpox: consider aciclovir ^{2A+,3A+,4D} if: onset 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+	First line for chicken pox and shingles: aciclovir ^{3A+,7A+,10A+,13B+,14A-} ,15A+	800mg 5 times daily ^{16A-}	BNF for children	7 days ^{14A-,16A-}	Not available. Access
Herpes zoster/shingles Public Health England Last updated: Oct 2018	Give paracetamol for pain relief. GC Shingles: treat if >50 years A+,8D (PHN rare if <50 years) A and within 72 hours of rash, A+ or if 1 of the following: active ophthalmic; A+ or if 1 of the following: active ophthalmic; Mamsey Hunt; A+ or	Second line for shingles if poor compliance: not for children: valaciclovir ^{8D,10A+,14A-}	1g TDS ^{14A} -	- BNF for children		supporting evidence and rationales on the PHE website
Tick bites (Lyme disease) Public Health England	Prophylaxis: 1A+ not routinely recommended in Europe. 2D In pregnancy, consider amoxicillin. 2D If immunocompromised, consider prophylactic doxycycline. 2D Risk increased if high prevalence area and the longer tick is attached to the skin. 3D Only give prophylaxis within 72 hours of tick removal. 1A+,2D,4A- Give safety net advice about erythema migrans 2D and other possible symptoms 2D that may occur within 1 month of tick removal. 2D	Prophylaxis: ^{1A+} doxycycline ^{2D,4A-,5D}	200mg ^{2D,4A,5D}	BNF for children	Stat ^{2D,4A-,5D}	Not available. Access supporting evidence and rationales on the PHE website
		Treatment: doxycycline ^{2D,3D,5D}	100mg BD ^{2D,3D,5D}	BNF for children		

Infection	Key points	Medicine	Doses		Length	Visual
IIIIection		Medicine	Adult	Child	Lengin	summary
Last updated: Oct 2018	Treatment : Treat erythema migrans empirically ; serology is often negative early in infection. ^{3D}	First alternative: amoxicillin ^{2D,3D,5D}	1,000mg TDS ^{2D,3D,5D}	BNF	21 days ^{2D,3D,5D}	
	For other suspected Lyme disease such as neuroborreliosis (CN palsy, radiculopathy) seek advice. ^{3D}			for children		
▼ Eye infecti	ons					
Conjunctivitis	First line : bath/clean eyelids with cotton wool dipped in sterile saline or boiled (cooled) water, to remove crusting. ^{1D}	Second line: chloramphenicol ^{1D,2A+,4A-,5A+} 0.5% eye drop ^{1D,2A+}	2 hourly for 2 days, ^{1D,2A+} then reduce frequency ^{1D}	BNF		
Public Health	Treat only if severe , ^{2A+} as most cases are viral ^{3D} or self-limiting. ^{2A+}	OR 1% ointment ^{1D,5A+}	to 3–4 times daily, ^{1D} or just at night if using eye ointment ^{1D}	for children	48 hours after	Not available. Access supporting
England	Bacterial conjunctivitis: usually unilateral and also self-limiting. ^{2A+,3D} It is characterised by red eye with mucopurulent, not watery discharge. ^{3D}	Third line:			resolution ^{2A+,7D}	evidence and rationales on the PHE website
Last updated: Oct 2018	65% and 74% resolve on placebo by days 5 and 7.4A-,5A+ Third line : fusidic acid as it has less Gram-negative activity.6A-,7D	fusidic acid 1% gel ^{2A+,5A+,6A-}	BD ^{1D,7D}	BNF for children		
Blepharitis	First line: lid hygiene ^{1D,2A+} for symptom control, ^{1D} including: warm compresses; ^{1D,2A+} lid massage and scrubs; ^{1D} gentle washing; ^{1D}	Second line: topical chloramphenicol ^{1D,2A+,3A-}	1% ointment BD ^{2A+,3D}	BNF for children	6-week trial ^{3D}	Not available. Access
Public Health England	avoiding cosmetics. ^{1D} Second line : 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
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}	BMF for children	4 weeks (initial) ^{3D} 8 weeks (maint) ^{3D}	PHE website

Suspected dental infections in primary care (outside dental settings)

Derived from the Scottish Dental Clinical Effectiveness Programme (SDCEP) 2013 Guidelines. 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

Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Key politis	Weatenie	Adult	Child	Lengui	summary
Mucosal ulceration and inflammation (simple gingivitis)	attained with 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 cause for mucosal ulceration or inflammation (aphthous ulcers; ^{1D} oral lichen planus; ^{1D} herpes simplex infection; ^{1D} oral	Chlorhexidine 0.12 to 0.2% ^{1D, 2A-,3A+,4A+} (do not use within 30 minutes of toothpaste) ^{1D} OR	1 minute BD with 10 ml ^{1D}	BNF for children	Always spit out after use. 1D Use until lesions resolve 1D or	Not available. Access supporting evidence and rationales on the PHE website
Public Health England Last updated: Nov 2017		hydrogen peroxide 6% ^{5A-1D}	2 to 3 minutes BD/TDS with 15ml in ½ glass warm water ^{1D}	BMF for children	less pain allows for oral hygiene ^{1D}	
Acute necrotising ulcerative gingivitis	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-	Chlorhexidine 0.12 to 0.2% (do not use within 30 minutes of toothpaste) ^{1D} OR	1 minute BD with 10ml ^{1D}	BNF for children	Until pain allows for oral hygiene ^{6D}	Not available. Access supporting evidence and rationales on the PHE website
Public Health England Last updated:		hydrogen peroxide 6% ^{1D}	2 to 3 minutes BD/TDS with 15ml in ½ glass warm water	BMF for children	- Tot oral riygiene	
Nov 2017		metronidazole ^{1D,3B-,4B+,5A-}	400mg TDS ^{1D,2D}	BNF for children	3 days ^{1D,2D}	
Pericoronitis	Refer to dentist for irrigation and debridement. ^{1D} If persistent swelling or systemic symptoms, ^{1D}	Metronidazole ^{1D,2A+,3B+} OR	400mg TDS ^{1D}	BNF for children	3 days ^{1D,2A+}	
	use metronidazole ^{1D,2A+,3B+} or amoxicillin. ^{1D,3B+} Use antiseptic mouthwash if pain and trismus	amoxicillin ^{1D,3B+}	500mg TDS ^{1D}	BNF for children	3 days¹D	Not available.
Public Health England	limit oral hygiene. ^{1D}	chlorhexidine 0.2% (do not use within 30 minutes of toothpaste) ^{1D} OR	1 minute BD with 10ml ^{1D}	BNF for children	Until less pain	Access supporting evidence and rationales on the PHE website
Last updated: Nov 2017		hydrogen peroxide 6% ^{1D}	2 to 3 minutes BD/TDS with 15ml in ½ glass warm water ^{1D}	BNF for children	allows for oral hygiene ^{1D}	
Dental abscess	Regular analgesia should be the first option ^{1A+} unt are not appropriate. ^{1A+,4A+} Repeated antibiotics ald recommended if there are signs of severe infection infections (cellulitis, ^{1A+,3A+} plus signs of sepsis; ^{3A+,4} admission to protect airway,6D for surgical drainage clarithromycin, ^{6D} and clindamycin ^{6D} do not offer are drugs. ^{6D}	one, without drainage, are ineff n, ^{3A+} systemic symptoms, ^{1A+,2B} · ^{A+} difficulty in swallowing; ^{6D} im ge3A+ and for IV antibiotics. ^{3A} ·	ective in preventing the so- -4A+ or a high risk of compending airway obstruction The empirical use of ce	spread of plications on)6D shephalospo	infection. 1A+,5C Antibio .1A+ Patients with seve ould be referred urgen rins,6D co-amoxiclav,6C	tics are only ere odontogenic tly for hospital

Infection	Key points	Medicine	Doses		Length	Visual
		Medicine	Adult	Child	Lengui	summary
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		
	Send pus for investigation. ^{1A+} If spreading infection ^{1A+} (lymph node	phenoxymethylpenicillin ^{11B-}	500mg to 1000mg QDS ^{6D}	BNF for children	Up to 5 days;	Not available. Access supporting
	involvement ^{1A+,4A+} or systemic signs, ^{1A+,2B-,4A+} that is, fever ^{1A+} or malaise) ^{4A+} ADD	metronidazole ^{6D,8B+,9C}	400mg TDS ^{6D}	BNF for children	^{6D,10B+} review at 3 days ^{9C,10B+}	evidence and rationales on the
Last updated: Oct 2018	metronidazole. 6D,7B+ Use clarithromycin in true penicillin allergy and, if severe, refer to hospital. 3A+,6D	Penicillin allergy: clarithromycin ^{6D}	500mg BD ^{6D}	BMF for children		PHE website

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.