





Blackpool Clinical Commissioning Group Fylde and Wyre Clinical Commissioning Group

## **Summary of Antimicrobial Prescribing Guidance – Managing Common Infections**

For all PHE guidance, follow <u>PHE's principles of treatment</u>. It is important to use antimicrobials prudently to support the national 5 years plan on <u>Tackling Antimicrobial</u> <u>Resistance</u> (click for details)

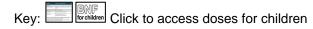
## Aims

- To provide a simple, effective, economical, and empirical approach to the treatment of common infections.
- To minimise the emergence of bacterial resistance in the community.

## Principles of Treatment

- This guidance is based on the best available evidence however professional judgement should be used and patients should be involved in the decision.
- · Prescribe an antibiotic only when there is likely to be a clear clinical benefit.
- It is important to initiate antibiotics as soon as possible in severe infection.
- Where an empirical therapy has failed or special circumstances exist, microbiological advice can be obtained via the BVH switchboard 01253 300000
- Consider a 'No' or 'Back-up/Delayed', antibiotic strategy for acute self-limiting upper respiratory tract infections and mild UTI symptoms.
- Limit prescribing over the telephone to exceptional cases.
- Use simple generic antibiotics if possible. Avoid broad-spectrum antibiotics (eg. co-amoxiclav, quinolones and cephalosporins) when narrow-spectrum antibiotics remain effective, as they increase the risk of Clostridium difficile, MRSA and resistant UTIs
- A dose and duration of treatment for adults is usually suggested but may need modification for age, weight and renal function. In severe or recurrent cases consider a higher dose or longer course.
- Lower threshold for antibiotics in immunocompromised or those with multiple morbidities; culture and seek advice.
- Avoid widespread use of topical antibiotics (especially those agents also available as systemic preparations, e.g. fusidic acid).

- In pregnancy take specimens to inform treatment, use this guidance alternative or seek expert advice. Penicillins, cephalosporins and erythromycin are not associated with increased risks. If possible avoid tetracyclines, aminoglycosides, quinolones, azithromycin, clarithromycin, high dose metronidazole (2 g stat) unless the benefit outweighs the risks. Short-term use of nitrofurantoin is not expected to cause foetal problems (theoretical risk of neonatal haemolysis). Trimethoprim is also unlikely to cause problems unless poor dietary folate intake or taking another folate antagonist e.g. antiepileptics.
- This guidance should not be used in isolation; it should be supported with patient information about back-up/delayed antibiotics, infection severity and usual duration, clinical staff education, and audits. Materials are available on the RCGP TARGET website.
- See BNF for appropriate use and dosing in specific populations, for example, hepatic impairment, renal impairment, pregnancy and breastfeeding.



Click to access NICE's printable visual summary

- Safety advice on quinolones consider MHRA/CHM advice when prescribing fluoroquinolones: small increased risk of aortic aneurysm and dissection and tendon damage
- Jump to section on:

<u>Upper RTI</u>	Lower RTI	<u>UTI</u>	<u>Meningitis</u>	<u>GI</u>	<u>Genital</u>	<u>Skin</u>	<u>Eye</u>	<u>Dental</u>
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Version Control	Amendments made
Version 1.1 July 2022	CDI treatment options updated to reflect NICE/PHE guidance from July 2021

Infection	Key points	Medicine	Doses		Longth	Visual
mection	Key points	Medicine	Adult	Child	Length	summary
▼ Upper res	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 to 10 days*	
	Medicated lozenges may help with pain in adults.	Penicillin allergy: clarithromycin OR	250mg to 500mg BD		5 days	
NICE	Use <u>FeverPAIN</u> or <u>Centor</u> to assess symptoms: <b>FeverPAIN 0-1 or Centor 0-2</b> : no antibiotic; <b>FeverPAIN 2-3</b> : no or back-up antibiotic; <b>FeverPAIN 4-5 or Centor 3-4</b> : immediate or	erythromycin (preferred if pregnant)	250mg to 500mg QDS or 500mg to 1000mg BD		5 days	
Public Health England	back-up antibiotic. Systemically very unwell or high risk of complications: immediate antibiotic.			Sectors         An electronic of a sector of a		
Last updated: Jan 2018	*5 days of phenoxymethylpenicillin may be enough for a symptomatic cure; but a 10-day course may increase the chance of microbiological cure.					
	For detailed information click the visual summary icon.					
Influenza	<b>Annual vaccination is essential for all those 'a</b> Treat 'at risk' patients with 5 days oseltamivir 75m (36 hours for zanamivir treatment in children), <sup>1D,3D</sup>	g BD, <sup>1D</sup> when influenza is circ	culating in the commu		5	s of onset
Public Health England Last updated: Feb 2019	At risk: <u>pregnant</u> (and up to 2 weeks post-partum and asthma); significant cardiovascular disease (r diabetes mellitus; morbid obesity (BMI>40). <sup>4D</sup> See immunosuppression, or oseltamivir resistance, us advice. <sup>4D</sup>	); children under 6 months; ac not hypertension); severe imm e the <u>PHE Influenza</u> guidance	dults 65 years or older unosuppression; chro for the treatment of pa	nic neuro atients un	logical, renal or liver der 13 years. <sup>4D</sup> In sev	disease; /ere
	Access supporting evidence and rationales on the <u>PHE</u>	website.				
Scarlet fever (GAS)	<b>Prompt treatment</b> with appropriate antibiotics significantly reduces the risk of complications. <sup>1D</sup>	Phenoxymethylpenicillin <sup>2D</sup>	500mg QDS <sup>2D</sup>	BNF for children	10 days <sup>3A+,4A+,5A+</sup>	Not available. Access
Public Health England	Vulnerable individuals (immunocompromised, the comorbid, or those with skin disease) are at increased rick of developing complications <sup>1D</sup>	Penicillin allergy: clarithromycin <sup>2D</sup>	250mg to 500mg BD <sup>2D</sup>	BNF for children	5 days <sup>2D,5A+</sup>	supporting evidence and
Last updated: Oct 2018	increased risk of developing complications. <sup>1D</sup>	Optimise analgesia <sup>2D</sup> and gi	rationales on the <u>PHE</u> <u>website</u>			

Infection	Kou nointe	Madiaina	Doses		Longth	Visual
Infection	Key points	Medicine	Adult	Child	Length	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	Otorrhoea or under 2 years with infection in both ears: no, back-up or immediate antibiotic.	erythromycin (preferred if pregnant)	-	MA         Material state           Vice         State state		
Public Health England	Otherwise: no or back-up antibiotic. Systemically very unwell or high risk of complications: immediate antibiotic. For detailed information click on the visual summary.	Second choice: co- amoxiclav	-	The Control of Control	5 to 7 days	
Last updated: Feb 2018						
Acute otitis externa	<b>First line</b> : analgesia for pain relief, <sup>1D,2D</sup> and apply localised heat (such as a warm flannel). <sup>2D</sup> <b>Second line</b> : topical acetic acid or topical	Second line: topical acetic acid 2% <sup>2D,4B-</sup> OR	1 spray TDS <sup>5A-</sup>	BNF for children	7 days⁵ <sup>A</sup>	Not available.
Public Health England	antibiotic +/- steroid: similar cure at 7 days. <sup>2D,3A+,4B-</sup>	topical neomycin sulphate with corticosteroid <sup>2D,5A-</sup>	3 drops TDS <sup>5A-</sup>		7 days (min) to 14 days (max) <sup>3A+</sup>	Access supporting
Last updated: Nov 2017	If cellulitis or disease extends outside the ear canal, or systemic signs of infection, start oral flucloxacillin and refer to exclude malignant otitis	(consider safety issues if perforated tympanic membrane) <sup>6B-</sup>		BNF for children		evidence and rationales on the <u>PHE</u>
	externa. <sup>1D</sup>	If cellulitis:	250mg QDS <sup>2D</sup>			website
		flucloxacillin <sup>7B+</sup>	If severe: 500mg QDS <sup>2D</sup>	BNF for children	7 days <sup>2D</sup>	
Sinusitis	Advise paracetamol or ibuprofen for pain. Little evidence that nasal saline or nasal	First choice: phenoxymethylpenicillin	500mg QDS		5 days	
NICE	decongestants help, but people may want to try them. <b>Symptoms for 10 days or less</b> : no antibiotic.	Penicillin allergy: doxycycline (not in under 12s) OR	200mg on day 1, then 100mg OD	Mat         Material         Material <thmaterial< th="">         Material         M</thmaterial<>		Simulti (con), estimativati (prosoling mosoling )
	Symptoms with no improvement for more	clarithromycin <b>OR</b>	500mg BD	<ul> <li>The standard within the standard st</li></ul>	5 days	
	than 10 days: no antibiotic or back-up antibiotic depending on the likelihood of bacterial cause.	erythromycin (preferred if pregnant)	250 to 500mg QDS or 500 to 1000mg BD			

Infection	Koy points	Medicine	Doses		Length	Visual
Infection	Key points	Medicine	Adult	Child	Length	summary
Public Health England Last updated: Oct 2017	Consider high-dose nasal corticosteroid (if over 12 years). 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 res	piratory tract infections	L				
*Note: Low dos may have long- resistant organi	ses of penicillins are more likely to select for res term side effects and there is poor pneumococ isms. <sup>1D</sup>	istance. <sup>1D</sup> Do not use fluor cal activity. <sup>2B-,3D-</sup> Reserve a	oquinolones (ciprofl all fluoroquinolones	oxacin, c (including	floxacin) first line be g levofloxacin) for pi	ecause they roven
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)	-	5 days	
NICE	account severity of symptoms (particularly sputum colour changes and increases in volume or thickness), need for hospitalisation, previous exacerbations, hospitalisations and risk of	doxycycline <b>OR</b>	200mg on day 1, then 100mg OD (see BNF for severe infection)	-		
	complications, previous sputum culture and susceptibility results, and risk of resistance with	clarithromycin	500mg BD	-		
Public Health England	repeated courses.					
Last updated:	Some people at risk of exacerbations may have antibiotics to keep at home as part of their exacerbation action plan.					
Dec 2018	For detailed information click on the visual summary. See also the <u>NICE guideline on COPD in over 16s</u> .	Second choice: use alterna	ative first choice			
	Please note - NICE recommendations adapted on local decisions	Alternative choice (if the person at higher risk of treatment failure): co-amoxiclav OR	500/125mg TDS	-	5 days	
		Non-serious penicillin allergy: Cefixime	200mg BD	-		

Infortion	Kanadata	Mastining	Doses		Langeth	Visual
Infection	Key points	Medicine	Adult	Child	Length	summary
		Severe penicillin allergy: co-trimoxazole (consider safety issues)	960mg BD			
		levofloxacin (with specialist advice) if co- amoxiclav, cefixime or co- trimoxazole cannot be used; consider safety issues)	Refer to microbiologist	-		
		IV antibiotics- Refer to/Cor	tact Community IV T	eam – 012	253 951223	
Acute exacerbation of bronchiectasis	acerbationsusceptibility testing.onchiectasisOffer an antibiotic.on-cysticWhen choosing an antibiotic, take account of severity of symptoms and risk of treatment failure. People who may be at higher risk of treatment failure include people who've had	First choice empirical treatment: amoxicillin (preferred if pregnant) OR	500mg TDS		7 to 14 days	
(non-cystic fibrosis)		doxycycline (not in under 12s) <b>OR</b>	200mg on day 1, then 100mg OD			
		clarithromycin	500mg BD			
NICE	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: co-amoxiclay OR	500/125mg TDS			
Public Health England	bronchiectasis, exacerbation history, severity of exacerbation symptoms, previous culture and susceptibility results, and response to treatment.	Levofloxacin* (adults only: with specialist advice if co-amoxiclav	Refer to microbiologist		7 to 14 days	
Last updated:	Do not routinely offer antibiotic prophylaxis to prevent exacerbations.	cannot be used; consider safety issues) <b>OR</b>			7 10 14 0033	
Dec 2018	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	ciprofloxacin (children only: with specialist advice if co-amoxiclav cannot be used; consider safety issues)	-			
	regular review. For detailed information click on the visual	IV antibiotics - Refer to/Co	7			
	summary.	When current susceptibili	ty data available: ch	oose antib	piotics accordingly	

Infortion	Kaunainta	Masteria	Doses		Length	Visual
Infection	Key points	Medicine	Adult	Child	Length	summary
Acute cough	Some people may wish to try honey (in over 1s), the herbal medicine pelargonium (in over 12s),	Adults first choice: doxycycline	200mg on day 1, then 100mg OD	-		
NICE	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 alternative first choices: amoxicillin (preferred if pregnant) OR	500mg TDS	-		
Public Health England	cute cough with upper respiratory tract	clarithromycin <b>OR</b>	250mg to 500mg BD	-	5 days	
Last updated: Feb 2019	infection: no antibiotic. Acute bronchitis: no routine antibiotic. Acute cough and higher risk of	erythromycin (preferred if pregnant)	250mg to 500mg QDS or 500mg to 1000mg BD	-		
	complications (at face-to-face examination): immediate or back-up antibiotic.	Children first choice: amoxicillin	-			
	Acute cough and systemically very unwell (at face to face examination): immediate antibiotic.	Children alternative first choices: clarithromycin OR	-			
	Higher risk of complications inc people with pre- existing comorbidity; young children born prematurely; people over 65 with 2 or more of, or over 80 with 1 or more of:lude hospitalisation in previous year, type 1 or 2 diabetes, history of congestive heart failure, current use of oral corticosteroids.	erythromycin <b>OR</b> doxycycline (not in under 12s)	-			
	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).					

Infection	Key points	Medicine	Doses		Length	Visual
mection	Rey points	Medicine	Adult	Child	Length	summary
Community- acquired pneumonia	Assess severity in adults based on clinical judgement guided by mortality risk score (CRB65 or CURB65). See the NICE guideline on <u>pneumonia</u> for full details:	First choice (low severity in adults or non-severe in children): amoxicillin	500mg TDS (higher doses can be used, see BNF)			
<b>NICE</b> Public Health England	<ul> <li>low severity – CRB65 0 or CURB65 0 or 1</li> <li>moderate severity – CRB65 1 or 2 or CURB65 2</li> <li>High severity – CRB65 3 or 4 or CURB65 3 to 5.</li> <li>1 point for each parameter: confusion, (urea &gt;7</li> </ul>	Alternative first choice (low severity in adults or non-severe in children): doxycycline (not in under 12s) OR clarithromycin OR erythromycin (in	200mg on day 1, then 100mg OD 500mg BD 500mg QDS		5 days*	
Last updated: Sept 2019	mmol/l), <b>respiratory rate</b> ≥30/min, low systolic (<90 mm Hg) or diastolic (≤60 mm Hg) <b>blood</b> <b>pressure</b> , <b>age</b> ≥65. Assess severity in children based on clinical judgement. Offer an antibiotic. Start treatment as soon as	pregnancy) First choice (moderate severity in adults): amoxicillin AND (if atypical pathogens suspected)	500mg TDS (higher doses can be used, see BNF)	-		
	possible after diagnosis, within 4 hours (within 1 hour if sepsis suspected and person meets any high-risk criteria – see the NICE guideline on	clarithromycin <b>OR</b> erythromycin (in pregnancy)	500mg BD 500mg QDS	-	5 days*	
	sepsis). When choosing an antibiotic, take account of severity, risk of complications, local antimicrobial resistance and surveillance data, recent	Alternative first choice (moderate severity in adults): doxycycline OR clarithromycin	200mg on day 1, then 100mg OD 500mg BD	-		
	<ul> <li>antibiotic use and microbiological results.</li> <li>* Stop antibiotics after 5 days unless microbiological results suggest a longer course is needed or the person is not clinically stable.</li> <li>For detailed information click on the visual summary.</li> <li>See also the NICE guideline on pneumonia.</li> </ul>	First choice (high severity in adults or severe in children): co-amoxiclav AND (if atypical pathogens suspected) clarithromycin OR erythromycin (in	500/125mg TDS 500/125mg TDS 500mg BD 500mg QDS		5 days*	
		pregnancy)				

Infection	Key points	Medicine		Doses		Length	Visual		
mection				Α	dult	Child	Lengui		summary
	**Linezolid- for monitoring requirement see <u>LSCMMG</u> -if more than 14 days of treatment is	Alternative first choice (high severity in adults): levofloxacin* (consider safety issues)Refer to 				253 951223	3		
	required on the advice of Microbiology refer	Specialist recommendation only: Treatment pneumonia on the							
	back to secondary care	recommendation of a microbiologist when used as a 10-14 day course							
		Linezolid	600mg BD		Monitoring	requireme	ent 10-1	4 days**	
		tab	(12 hourly)		see <u>LSCM</u>	MG			
Hospital- acquired pneumonia	If symptoms or signs of pneumonia start within 48	hours of hospi	tal discharge, r	efer to a r	nicrobiologis	st.			

Infection	Kownointe	Medicine	Doses		Longth	Visual
	Key points	weatchie	Adult	Child	Length	summary
Urinary tra	act infections					
Lower urinary tract infection	Advise paracetamol or ibuprofen for pain. <b>Non-pregnant women</b> : back up antibiotic (to use if no improvement in 48 hours or symptoms worsens at any time) or immediate antibiotic.	Non-pregnant women first choice: nitrofurantoin (if eGFR ≥45 ml/minute) OR	100mg m/r BD (or if unavailable 50mg QDS)	-	3 days	
NICE	Pregnant women, men, children or young people: immediate antibiotic.	trimethoprim (if low risk of resistance)	200mg BD	-		
Public Health England	When considering antibiotics, take account of the 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	Non-pregnant women second choice: nitrofurantoin (if eGFR ≥45 ml/minute) OR	100mg m/r BD (or if unavailable 50mg QDS)	-	3 days	
		pivmecillinam (a penicillin) <b>OR</b>	400mg initial dose, then 200mg TDS	-	3 days	
∟ast updated: Dct 2018		fosfomycin	3g single dose sachet	-	single dose	UTI Bowet activizabili procebing NCT on
		Pregnant women first choice: nitrofurantoin (avoid at term) – if eGFR ≥45 ml/minute	100mg m/r BD (or if unavailable 50mg QDS)	-	7 days	
		<b>Pregnant women second</b> <b>choice</b> : amoxicillin (only if culture results available and susceptible) <b>OR</b>	500mg TDS	-	7 days	
		cefalexin	500mg BD	-		
		<b>Treatment of asymptomatic bacteriuria in pregnant women</b> : choose from nitrofurantoin (avoid at term), amoxicillin or cefalexin based on recent culture and susceptibility results				
		Men first choice: trimethoprim OR	200mg BD	-		
		nitrofurantoin (if eGFR ≥45 ml/minute)	100mg m/r BD (or if unavailable 50mg QDS)	-	7 days	

Infection	Kourseinte	Medicine	Dose	S	Longth	Visual	
Infection	Key points	Medicine	Adult	Child	Length	summary	
		Men second choice: consider on recent culture and susce		noses basin	g antibiotic choice		
		Children and young people (3 months and over) first choice: trimethoprim (if low risk of resistance) OR	-				
		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) <b>OR</b>	-				
		cefalexin	-				
Acute prostatitis NICE	Advise paracetamol (+/- low-dose weak opioid) for pain, or ibuprofen if preferred and suitable. Offer antibiotic. Review antibiotic treatment after 14 days and either stop antibiotics or continue for a further 14 days if needed (based on assessment of	First choice (guided by susceptibilities when available): ciprofloxacin* (consider safety advice on page 2) OR	500mg BD	-	. 14 days then review	Pendits (and articles) provide The second s	
	history, symptoms, clinical examination, urine and blood tests).	ofloxacin (consider safety issues on page 2) <b>OR</b>	200mg BD	-			
Public Health England	For detailed information click on the visual summary.	trimethoprim (if fluoroquinolone not appropriate; seek specialist advice)	200mg BD	-			

Infection	Key points	Medicine	Doses		Length	Visual
mection	Rey points	Medicine	Adult	Child	Lengui	summary
Last updated: Oct 2018	•	Second choice (after discussion with specialist): levofloxacin* (consider safety issues) OR	Refer to microbiologist	-		
		co-trimoxazole	960mg BD	-	14 days then review	
		tact Community IV Te	eam – 012	53 951223		

Infection	Koy points	Medicine	Doses	Doses		Visual
intection	Key points	iviedicine	Adult	Child	Length	summary
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 to 10 days	
NUCE	NICEseverity 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.NICEAvoid antibiotics that don't achieve adequate levels in renal tissue, such as nitrofurantoin. For detailed information click on the visual summary.	co-amoxiclav (only if culture results available and susceptible) <b>OR</b>	500/125mg TDS	-	7 to 10 days	-
NICE		trimethoprim (only if culture results available and susceptible) <b>OR</b>	200mg BD	-	14 days	
Public Health		ciprofloxacin (consider safety issues) * on page 2	500mg BD	-	7 days	
England	See also the NICE guideline on <u>urinary tract infection</u> in under 16s: diagnosis and management and the	Non-pregnant women and				
Last updated: Oct 2018	Public Health England <u>urinary tract infection:</u> diagnostic tools for primary care.	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 of advice				
		Children and young people (3 months and over) first choice: cefalexin OR	-	Bits         Bits and the second	-	
		co-amoxiclav (only if culture results available and susceptible)	-			
		Children and young peopl specialist for advice	le (3 months and ove	er) IV anti	biotics - Contact	

Infection	Key points	Medicine	Doses		Longth	Visual
mection	Key points	Wedicine	Adult	Child	Length	summary
Recurrent urinary tract infection NICE	First advise about behavioural and personal hygiene measures, and self-care (with D- mannose or cranberry products) to reduce the risk of UTI. Follow <u>LSCMMG Pathway</u> For postmenopausal women, if no	First choice antibiotic prophylaxis: trimethoprim (avoid in pregnancy) OR	200mg single dose when exposed to a trigger or 100mg at night	Sector Sector Sector           Material         Sector <t< td=""><td>- Review if choice is still appropriate after 3 months- switch to alternative agent</td><td></td></t<>	- Review if choice is still appropriate after 3 months- switch to alternative agent	
Public Health England	improvement, consider vaginal oestrogen (review within 12 months). For non-pregnant women, if no improvement, consider single-dose antibiotic prophylaxis for exposure to a trigger (review within 6 months).	nitrofurantoin (avoid at term) - if eGFR ≥45 ml/minute	100mg single dose when exposed to a trigger or 50 to 100mg at night		Review if choice is still appropriate after 3 months- switch to alternative agent	
Last updated Oct 2018	For non-pregnant women (if no improvement or no identifiable trigger) or with specialist advice for pregnant women, men, children or young people, consider a trial of daily antibiotic prophylaxis (review within 6 months).	Second choice antibiotic prophylaxis: amoxicillin OR	500mg single dose when exposed to a trigger or 250mg at night		Review if choice is still appropriate after 3 months- switch to alternative agent	All and the final of proceeding of the final
	For detailed information click on the visual summary. See also the NICE guideline on <u>urinary tract infection in under 16s:</u> <u>diagnosis and management</u> and the Public Health England <u>urinary tract infection:</u> <u>diagnostic tools for primary care</u> . <i>Please note - NICE recommendations adapted</i> <i>on local decisions</i> Review with mid-stream urine	cefalexin	500mg single dose when exposed to a trigger or 125mg at night		Review if choice is still appropriate after 3 months- switch to alternative agent	

In the stars	Key points		Doses		L	Visual
Infection		Medicine	Adult	Child	Length	summary
Catheter- associated urinary tract infection	<ul> <li>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 7 days. But do not delay antibiotic treatment.</li> <li>Advise paracetamol for pain.</li> <li>Advise drinking enough fluids to avoid dehydration.</li> <li>Offer an antibiotic for a symptomatic infection.</li> <li>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.</li> <li>Do not routinely offer antibiotic prophylaxis to people with a short-term or long-term catheter.</li> </ul>	Non-pregnant women and men first choice if no upper UTI symptoms: nitrofurantoin (if eGFR ≥45 ml/minute) OR	100mg m/r BD (or if unavailable 50mg QDS)	-		
		trimethoprim (if low risk of resistance) <b>OR</b>	200mg BD	-	7 days	
NICE		amoxicillin (only if culture results available and susceptible)	500mg TDS	-	-	
Public Health England		Non-pregnant women and men second choice if no upper UTI symptoms: pivmecillinam (a penicillin)	400mg initial dose, then 200mg TDS	-	7 days	
Last updated: Nov 2018		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	
	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) <b>OR</b>	500/125mg TDS	-		
	Please note - NICE recommendations adapted on local decisions	trimethoprim (only if culture results available and susceptible) <b>OR</b>	200mg BD	-	14 days	
		Ciprofloxacin* (consider safety advice on page 2))	500mg BD	-	7 days	
		Non-pregnant women and men IV antibiotics – Refer to/Contact Community IV Team – 01253 951223				
		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	

Infortion	Kanadata	Madiaina	Doses			Visual summary
Infection	Key points	Medicine	Adult	Child	Length	
		Pregnant women second of advice	choice or IV antibiot	i <b>cs –</b> Cont	act specialist for	
		Children and young people (3 months and over) first choice: trimethoprim (if low risk of resistance) OR	-			
		amoxicillin (only if culture results available and susceptible) <b>OR</b>	-			
		cefalexin <b>OR</b>	-			
		co-amoxiclav (only if culture results available and susceptible)	-			
		Children and young peopl specialist	e (3 months and ove	er) IV antil	biotics- Refer to	
Meningitis						
Suspected	Transfer all patients to the hospital	IM benzylpenicillin <sup>1D,2D</sup>	Child <1 year: 300m	ng⁵ <sup>5D</sup>		
meningococcal disease	immediately. <sup>1D</sup>		Child 1 to 9 years: 6	00mg⁵D		Not available.
Public Health England Last updated: Feb 2019	If time before hospital admission, <sup>2D,3A+</sup> if suspected meningococcal septicaemia or non- blanching rash, <sup>2D,4D</sup> give IM benzylpenicillin <sup>1D,2D,4D</sup> as soon as possible. <sup>2D</sup> Do not give IV/IM antibiotics if there is a definite history of anaphylaxis; <sup>1D</sup> rash is not a contraindication. <sup>1D</sup>		Adult/child 10+ year	s: 1.2g <sup>5D</sup>	Stat dose; <sup>1D</sup> give IM, if vein cannot be accessed <sup>1D</sup>	Access the supporting evidence and rationales on the <u>PHE</u> <u>website</u>
Prevention of	Only prescribe following advice from your local he	alth protoction appoint Nor	th Wast Tasm: 📾 [02	11 225 05	621 Out of hourse 🕿	[0151 424 4940]
secondary	Blackpool Teaching Hospitals, microbiologist secre		•	44 220 05		[0151 454 4619]
case of	Out of hours: contact on-call doctor: 2 [01253 30]		μ-114			
meningitis	Expert advice is available for managing clusters of	-	annronriate organisati	on to any	cluster situation	
Public Health	Public Health England, Colindale (tel: 0208 200 44	•		on to any		
England Last updated: July 2019	Access the supporting evidence and rationales on the <u>F</u>	,				

Infection	Key points	Medicine	Doses		Length	Visual			
intection	Key points	Wealchie	Adult	Child	Length	summary			
▼ Gastrointe	stinal tract infections								
Oral candidiasis Public Health	ndidiasisnystatin.1A+Oral candidiasis is rare in immunocompetent adults;2D consider undiagnosed risk factors, including HIV.2DUse 50mg fluconazole if extensive/severe candidiasis;3D,4D if HIV or immunocompromised,	Miconazole oral gel <sup>1A+,4D,5A-</sup>	2.5ml of 24mg/ml QDS (hold in mouth after food) 4D	BNF for children	7 days; continue for 7 days after resolved <sup>4D,6D</sup>	Not available. Access			
Last updated: Oct 2018		If not tolerated: nystatin suspension <sup>2D,6D,7A-</sup>	1ml; 100,000units/ml QDS (half in each side) <sup>2D,4D,7A-</sup>	BNF for children	7 days; continue for 2 days after resolved <sup>4D</sup>	supporting evidence and rationales on the <u>PHE</u> website			
		fluconazole capsules <sup>6D,7A-</sup>	50mg/100mg OD <sup>3D,6D,8A-</sup>	BNF for children	7 to 14 days <sup>6D,7A-</sup> ,8A-	website			
Infectious	Refer previously healthy children with acute painful or bloody diarrhoea, to exclude <i>E. coli</i> O157 infection. <sup>1D</sup>								
diarrhoea	Antibiotic therapy is not usually indicated unle	ess patient is systemically u	nwell. <sup>2D</sup> If systemicall	y unwell a	and campylobacter su	uspected (such			
Public Health	as undercooked meat and abdominal pain), <sup>3D</sup> con	sider clarithromycin 250mg to	500mg BD for 5 to 7	days, if tro	eated early (within 3 c	lays). <sup>3D,4A+</sup>			
England	If giardia is confirmed or suspected - tinidazole 20	single dose is the treatment	of choice.5A+						
Last updated: Oct 2018	Access the supporting evidence and rationales on the <u>F</u>	P <u>HE website</u> .							

Infection	Key points	Medicine	Doses		Length	Visual
Clostridioides difficile infection	For suspected or confirmed <i>C. difficile</i> infection, see <u>Public Health England's guidance on</u> <u>diagnosis and reporting</u> . <b>Assess</b> : whether it is a first or further episode,	First-line for <u>first</u> <u>episode</u> of mild, moderate or severe: Vancomycin	Adult 125mg QDS	Child BNF for children		summary
<b>NICE</b> Public Health England	<ul> <li>severity of infection, individual risk factors for complications or recurrence (such as age, frailty or comorbidities).</li> <li>Existing antibiotics: review and stop unless essential. If still essential, consider changing to one with a lower risk of <i>C. difficile</i> infection.</li> <li>Review the need to continue: proton pump inhibitizes other medicines with a contractional statement.</li> </ul>	Second-line for <u>first</u> <u>episode</u> of mild, moderate or severe if vancomycin ineffective: Fidaxomicin (Amber0 seek microbiology advice before prescribing)	200mg BD	BNF for children		
Last updated: Jul 2021	<ul> <li>inhibitors, other medicines with gastrointestinal activity or adverse effects (such as laxatives), medicines that may cause problems if people are dehydrated (such as NSAIDs).</li> <li>Do not offer antimotility medicines such as loperamide.</li> <li>Offer an oral antibiotic to treat suspected or</li> </ul>	For <u>further episode</u> <u>within 12 weeks</u> of symptom resolution (relapse): Fidaxomicin (Amber0 seek microbiology advice before prescribing)	200mg BD	BNF for children	10 days	
	<ul> <li>confirmed <i>C. difficile</i> infection.</li> <li>For adults, consider seeking prompt specialist advice from a microbiologist or infectious diseases specialist before starting treatment.</li> <li>For children and young people, treatment should be started by, or after advice from, a microbiologist, paediatric infectious diseases specialist or paediatric gastroenterologist.</li> <li>If antibiotics have been started for suspected <i>C. difficile</i> infection, and subsequent stool</li> </ul>	For <u>further episode more</u> <u>than 12 weeks</u> after symptom resolution (recurrence): Vancomycin If vancomycin fails discuss with microbiology	125mg QDS	BMF for children		
	sample tests do not confirm infection, consider stopping these antibiotics. For detailed information click on the visual summary.	For alternative antibiotics ineffective or for life-threa visual summary)				

Infection	Key points	Medicine	Doses		Length	Visual
meetion		Medicine	Adult	Child	Length	summary
Helicobacter pyloriPublic Health EnglandSee PHE quick reference guide for diagnostic advice: PHE H. pyloriLast updated: Feb 2019	Always test for <i>H.pylori</i> before giving antibiotics. Do not offer eradication for GORD. <sup>3D</sup> Do not use clarithromycin, metronidazole or quinolone if used in the past year for any infection. <sup>5A+,6B+,7A+</sup> <b>Penicillin allergy</b> : use PPI <b>PLUS</b> clarithromycin <b>PLUS</b> metronidazole. <sup>2D</sup> If previous clarithromycin, use PPI <b>PLUS</b> bismuth salt <b>PLUS</b> metronidazole <b>PLUS</b> tetracycline hydrochloride. <sup>2D,8A-,9D</sup> <b>Relapse and no penicillin allergy</b> use PPI <b>PLUS</b> amoxicillin <b>PLUS</b> clarithromycin or metronidazole (whichever was not used first line) <sup>2D</sup> <b>Relapse and previous metronidazole and</b> <b>clarithromycin</b> : use PPI <b>PLUS</b> amoxicillin <b>PLUS</b> either tetracycline <b>OR</b> levofloxacin (if tetracycline not tolerated). <sup>2D,7A+</sup> <b>Relapse and penicillin allergy (no exposure</b> <b>to quinolone)</b> : use PPI <b>PLUS</b> metronidazole <b>PLUS</b> levofloxacin. <sup>2D</sup> <b>Relapse and penicillin allergy (with exposure</b> <b>to quinolone)</b> : use PPI <b>PLUS</b> bismuth salt <b>PLUS</b> metronidazole <b>PLUS</b> tetracycline. <sup>2D</sup> <b>Relapse and penicillin allergy (with exposure</b> <b>to quinolone)</b> : use PPI <b>PLUS</b> bismuth salt <b>PLUS</b> metronidazole <b>PLUS</b> tetracycline. <sup>2D</sup> <b>Retest for</b> <i>H. pylori:</i> post DU/GU, or relapse after second-line therapy, <sup>1A+</sup> using UBT or SAT, <sup>10A+,11A+</sup> consider referral for endoscopy and culture. <sup>2D</sup> <i>Please note - NICE recommendations adapted</i> <i>on local decisions</i>	Always use PPI <sup>2D,3D,5A+,12A+</sup> First line and first relapse and no penicillin allergy PPI PLUS 2 antibiotics amoxicillin <sup>2D,6B+</sup> PLUS clarithromycin <sup>2D,6B+</sup> OR metronidazole <sup>2D,6B+</sup> Penicillin allergy and previous clarithromycin: PPI WITH bismuth subsalicylate PLUS 2 antibiotics bismuth subsalicylate <sup>13A+</sup> PLUS metronidazole <sup>2D</sup> PLUS tetracycline <sup>2D</sup> Relapse and previous metronidazole and clarithromycin: PPI PLUS 2 antibiotics amoxicillin <sup>2D,7A+</sup> PLUS tetracycline <sup>2D,7A+</sup> OR levofloxacin (if tetracycline cannot be used) <sup>2D,7A+</sup> *Consider safety issues Third line- Seek specialist	- 1000mg BD <sup>14A+</sup> 500mg BD <sup>8A-</sup> 400mg BD <sup>2D</sup> - 525mg QDS <sup>15D</sup> 400mg BD <sup>2D</sup> 500mg QDS <sup>15D</sup> - 1000mg BD <sup>14A+</sup> 500mg QDS <sup>15D</sup> 250mg BD <sup>7A+</sup>	BNF for children BNF for children BNF for children BNF for children - BNF for children	7 days <sup>2D</sup> MALToma 14 days <sup>7A+,16A+</sup>	Not available. Access supporting evidence and rationales on the <u>PHE</u> website

Infection	Kou pointo	Madiaina	Doses		Longth	Visual summary
Infection	Key points	Medicine	Adult	Child	- Length	
Acute diverticulitis NICE	Acute diverticulitis and systemically well: Consider no antibiotics, offer simple analgesia (for example paracetamol), advise to re-present if symptoms persist or worsen. Acute diverticulitis and systemically unwell, immunosuppressed or significant	First-choice (uncomplicated acute diverticulitis): co-amoxiclav	500/125mg TDS	-		
Last updated: Nov 2019	<b>comorbidity:</b> offer an antibiotic. Give oral antibiotics if person not referred to hospital for suspected complicated acute diverticulitis. Give IV antibiotics if admitted to hospital with suspected or confirmed complicated acute diverticulitis (including diverticular abscess). If CT-confirmed uncomplicated acute diverticulitis, review the need for antibiotics. ** A longer course may be needed based on clinical assessment.	Penicillin allergy or co-amoxiclav unsuitable: cefalexin (caution in penicillin allergy) AND metronidazole OR trimethoprim AND metronidazole OR	cefalexin: 500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections) metronidazole: 400mg TDS trimethoprim: 200mg BD metronidazole: 400mg TDS	-		
	Please note - NICE recommendations adapted on local decisions	ciprofloxacin (only if switching from IV ciprofloxacin with <b>specialist advice</b> ; consider safety issues) <b>AND</b> metronidazole <b>For IV antibiotics in comp</b> <b>diverticular abscess)</b> – Re	ciprofloxacin: 500mg BD metronidazole: 400mg TDS licated acute divertio			_
		951223	-	-		
Threadworm	<b>Treat all household contacts at the same</b> <b>time</b> . <sup>1D</sup> . For patients over 2 years old, refer to pharmacy.	Child over 6 months and under 2 years: mebendazole <sup>1D,3B-</sup>	100mg stat <sup>3B-</sup>	BNF for children	1 dose; <sup>3B-</sup> repeat in 2 weeks if persistent <sup>3B-</sup>	Not available. Access supporting

Infection	Key points	Medicine	Doses		Length	Visual
mection	rey points	Medicine	Adult	Child	Length	summary
Public Health England Last updated: Nov 2017	Advise hygiene measures for 2 weeks1D(hand hygiene;2D pants at night; morning shower, including perianal area).1D,2D Wash sleepwear, bed linen, and dust and vacuum.1DChild <6 months, add perianal wet wiping or washes 3 hourly.1DPlease note - NICE recommendations adapted on local decisions	Child <6 months or pregnant (at least in first trimester): only hygiene measure for 6 weeks <sup>1D</sup>	-	-	-	evidence and rationales on the <u>PHE</u> <u>website</u>

Infection	Key points	Medicine	Doses	Length	Visual
		Medicine	Adult Chi	ld	summary
Genital tra	ct infections				
or referrals to	o the GUM clinic between 9am to 5pm 🖀 [0	)1253 956850] or 🖀 [01253	956931]		
ut of hours:	contact on-call doctor: 🖀 [01253 300000]				
TI screening	People with risk factors should be screened for c	chlamydia, gonorrhoea, HIV and	d syphilis. <sup>1D</sup> Refer individual	and partners to GUM. <sup>1</sup>	D
Public Health	Risk factors: <25 years; no condom use; recent		mptomatic or infected partne	er; area of high HIV. <sup>2B-</sup>	
England	Access the supporting evidence and rationales on the	<u>PHE website</u> .			
ast updated: Nov 2017					

Infection	Koy points	Medicine	Doses		Longth	Visual
Infection	Key points	weatche	Adult	Child	Length	summary
Chlamydia trachomatis/	Opportunistically screen all sexually active patients aged 15 to 24 years for chlamydia	First line: doxycycline <sup>4A+,11A-,12A+</sup>	100mg BD <sup>4A+,11A-</sup> ,12A+		7 days <sup>4A+,11A-,12A+</sup>	
urethritis	annually and on change of sexual partner. <sup>1B-</sup>	Second line/	1000mg <sup>4A+,11A-,12A+</sup>		Stat <sup>4A+,11A-,12A+</sup>	
	If positive, treat index case, refer to GUM and initiate partner notification, testing and	pregnant/breastfeeding/ allergy/intolerance:	then			
Public Health	treatment. <sup>2D,3A+</sup>	azithromycin <sup>4A+,11A-,12A+</sup>	500mg OD <sup>4A+,11A-</sup>		2 days <sup>4A+,11A-,12A+</sup>	
England	As single dose azithromycin has led to increased resistance in GU infections, doxycycline should be used first line for chlamydia and urethritis. <sup>4A+</sup>		, 1271		(total 3 days)	
Last updated: July 2019	Advise patient with chlamydia to abstain from sexual intercourse until doxycycline is completed or for 7 days after treatment with azithromycin (14 days after azithromycin started and until symptoms resolved if urethritis). <sup>3A+,4A+</sup>					Not available. Access
	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. <sup>1B-,3B+, 5B-</sup>			-		supporting evidence and rationales on the <u>PHE</u>
	<b>Second line, pregnant, breastfeeding,</b> <b>allergy, or intolerance</b> : azithromycin is most effective. <sup>6A+,7D,8A+,9A+,10D</sup> As lower cure rate in pregnancy, test for cure at least 3 weeks after end of treatment. <sup>3A+</sup>					<u>website</u>
	<b>Consider referring all patients with</b> <b>symptomatic urethritis to GUM</b> as testing should include <i>Mycoplasma genitalium</i> and <i>Gonorrhoea</i> . <sup>11A-</sup>					
	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. <sup>11A-,12A+</sup>					

Infection	Koy pointo	Medicine	Doses		Length	Visual	
Infection	Key points	Medicine	Adult	Child	Length	summary	
Epididymitis	Usually due to Gram-negative enteric bacteria in	Doxycycline <sup>1A+,2D</sup> OR	100mg BD <sup>1A+,2D</sup>		10 to 14 days <sup>1A+,2D</sup>	Not available.	
	men over 35 years with low risk of STI. <sup>1A+,2D</sup>	ofloxacin <sup>1A+,2D</sup> OR	200mg BD <sup>1A+,2D</sup>	-	14 days <sup>1A+,2D</sup>	Access supporting evidence and rationales on the <u>PHE</u> website	
Public Health England Last updated: Nov 2017	If under 35 years or STI risk, refer to GUM. <sup>1A+,2D</sup>	ciprofloxacin *(Consider safety advice on page 2) 1A+,2D	500mg BD <sup>1A+,2D,3A+</sup>	-	10 days <sup>1A+,2D,3A+</sup>		
Vaginal	All topical and oral azoles give over 80%	Clotrimazole <sup>1A+,5D</sup> OR	500mg pessary <sup>1A+</sup>		Stat <sup>1A+</sup>		
candidiasis	cure. <sup>1A+,2A+</sup>	fenticonazole1A+ OR	600mg pessary <sup>1A+</sup>	-	Stat <sup>1A+</sup>		
	l are more effective than shorter ones 1A+,3D,4A+	clotrimazole <sup>1A+</sup> OR	100mg pessary <sup>1A+</sup>		6 nights <sup>1A+</sup>	Not available. Access	
Public Health		oral fluconazole <sup>1A+,3D</sup>	150mg <sup>1A+,3D</sup>	-	Stat <sup>1A+</sup>	supporting	
England Last updated: Oct 2018	updated: oral fluconazole every 72 hours for 3 doses induction, <sup>1A+</sup> followed by 1 dose once a week for	If recurrent:15fluconazole72	150mg every 72 hours THEN	_	3 doses	evidence and rationales on the <u>PHE</u> <u>website</u>	
		150mg once a week <sup>1A+,3D</sup>		6 months <sup>1A+</sup>			
Bacterial	Oral <u>metronidazole</u> is as effective as topical	OR OR	400mg BD <sup>1A+,3A+</sup>		7 days <sup>1A+</sup>	Not available. Access	
vaginosis	treatment, <sup>1A+</sup> and is cheaper. <sup>2D</sup>		OR		OR		
<b></b>	7 days results in fewer relapses than 2g stat at 4 weeks. <sup>1A+,2D</sup>		2000mg <sup>1A+,2D</sup>		Stat <sup>2D</sup>	supporting	
Public Health England	<b>Pregnant/breastfeeding</b> : avoid 2g dose. <sup>3A+,4D</sup> Treating partners does not reduce relapse. <sup>5A+</sup>	metronidazole 0.75% vaginal gel <sup>1A+,2D,3A+</sup> <b>OR</b>	5g applicator at night <sup>1A+,2D,3A+</sup>	- 5 nights <sup>1A+,2D,3A+</sup>	evidence and rationales on		
Last updated: Nov 2017	Treating partners does not reduce relapse.	clindamycin 2% cream <sup>1A+,2D</sup>	5g applicator at night <sup>1A+,2D</sup>		7 nights <sup>1A+,2D,3A+</sup>	the <u>PHE</u> <u>website</u>	
Genital herpes	Advise: saline bathing, <sup>1A+</sup> analgesia, <sup>1A+</sup> or	oral aciclovir <sup>1A+,2D,3A+,4A+</sup>	400mg TDS <sup>1A+,3A+</sup>		5 days <sup>1A+</sup>		
Public Health		topical lidocaine for pain, <sup>1A+</sup> and discuss <b>OR</b>	OR	800mg TDS (if recurrent) <sup>1A+</sup>		2 days <sup>1A+</sup>	Not available. Access supporting
England	First episode: treat within 5 days if new lesions	valaciclovir <sup>1A+,3A+,4A+</sup> <b>OR</b>	500mg BD <sup>1A+</sup>	-	5 days <sup>1A+</sup>	evidence and	
	or systemic symptoms <sup>1A+,2D</sup> and refer to GLIM <sup>2D</sup> L	famciclovir <sup>1A+,4A+</sup>	250mg TD <sup>1A+</sup>	-	5 days <sup>1A+</sup>	rationales on the <u>PHE</u> <u>website</u>	
Last updated: Nov 2017		short course antiviral treatment, <sup>1A+,2D</sup> or suppressive therapy if more than 6 episodes per	1000mg BD (if recurrent) <sup>1A+</sup>		1 day <sup>1A+</sup>		

Infection	Key points	Medicine	Doses		Length	Visual
Infection		Medicine	Adult	Child	Length	summary
<b>Gonorrhoea</b> Public Health England	Public Health Antibiotic resistance is now very high. <sup>1D,2D</sup>	Refer to GUM				Not available. Access supporting
Last updated: Feb 2019prior to treatment and the isolate is sensitive to ciprofloxacin at all sites of infection1D,2D For sensitivity to other antibiotics refer to GUM	Ciprofloxacin <sup>2D</sup> (only if known to be sensitive) <i>*consider safety</i> <i>advice on page 2</i>	500mg <sup>2D</sup>	-	Stat <sup>2D</sup>	evidence and rationales on the <u>PHE</u> <u>website</u>	
Trichomoniasis	Oral treatment needed as extravaginal infection common. <sup>1D</sup>	metronidazole <sup>1A+,2A+,3D,6A+</sup>	400mg BD <sup>1A+,6A+</sup> 2g (more adverse		5 to 7 day <sup>1A+</sup> Stat <sup>1A+,6A+</sup>	Not available. Access supporting evidence and rationales on the <u>PHE</u> <u>website</u>
Public Health England Last updated: Nov 2017	Treat partners, <sup>1D</sup> and refer to GUM for other STIs. <sup>1D</sup> <b>Pregnant/breastfeeding</b> : avoid 2g single dose <u>metronidazole</u> ; <sup>2A+,3D</sup> <u>clotrimazole</u> for symptom relief (not cure) if metronidazole declined. <sup>2A+,4A-</sup> , <sup>5D</sup>	Pregnancy to treat symptoms: clotrimazole <sup>2A+,4A-,5D</sup>	effects) <sup>6A+</sup> 100mg pessary at night <sup>5D</sup>	-	6 nights <sup>5D</sup>	
Pelvic inflammatory	Refer women and sexual contacts to GUM. <sup>1A+</sup> Raised CRP supports diagnosis, absent pus	First line therapy: ceftriaxone <sup>1A+,3C,4C</sup> PLUS	1000mg IM <sup>1A+,3C</sup>		Stat <sup>1A+,3C</sup>	
disease	cells in HVS smear good negative predictive	metronidazole1A+,5A+ PLUS	400mg BD <sup>1A+</sup>		14 days <sup>1A+</sup>	
	value. <sup>1A+</sup>	doxycycline <sup>1A+,5A+</sup>	100mg BD <sup>1A+</sup>		14 days <sup>1A+</sup>	Not available.
Public Health	<b>Exclude</b> : ectopic pregnancy, appendicitis, endometriosis, UTI, irritable bowel, complicated ovarian cyst, functional pain. Moxifloxacin has greater activity against likely pathogens, but always test for gonorrhoea,	Second line therapy: metronidazole <sup>1A+,5A+</sup> PLUS	400mg BD <sup>1A+</sup>	<b> </b> _	14 days <sup>1A+</sup>	Access supporting evidence and rationales on the <u>PHE</u> website
N		ofloxacin <sup>1A+,2A-,5A+</sup> OR	400mg BD <sup>1A+,2A-</sup>		14 days <sup>1A+</sup>	
Last updated: Feb 2019	chlamydia, and <i>M. genitalium</i> . <sup>1A+</sup> <i>If M. genitalium</i> tests positive use moxifloxacin. <sup>1A+</sup>	moxifloxacin alone <sup>1A+</sup> (first line for <i>M. genitalium</i> associated PID)	Refer to GUM			

Infection	Key points	Medicine	Doses Adult	Child	Length	Visual summary				
	oft tissue infections									
	<u>GP Skin Infections</u> online training. <sup>1D</sup> For MRSA, discuss th									
-	pecialist recommendation only: Treatment of complicat				•	-				
	nitoring requirement see <u>LSCMMG</u> -if more than 14 days		-			-				
PVL-SA	Panton-Valentine leukocidin (PVL) is a toxin produpeople, but severe. <sup>2B+</sup>	uced by 20.8 to 46% of S. auro	eus from boils/abscesse	<b>S.<sup>1B+,2B+,3</sup></b>	<sup>3B-</sup> PVL strains are	rare in healthy				
Public Health England	Suppression therapy should only be started after primary infection has resolved, as ineffective if lesions are still leaking. <sup>4D</sup>									
	<b>Risk factors for PVL</b> : recurrent skin infections; <sup>2B+</sup> invasive infections; <sup>2B+</sup> MSM; <sup>3B-</sup> if there is more than one case in a home or close community <sup>2B+,3I</sup>									
Last updated: Nov 2017	(school children; <sup>3B-</sup> military personnel; <sup>3B-</sup> nursing h		contacts).3B-							
	Access the supporting evidence and rationales on <b>No visible signs of infection</b> : antibiotic use (alor		and registered and day	a natimn	rovo hooling <sup>1A+</sup>					
Eczema Public Health	With visible signs of infection: use oral fluctora	,	•	•	•					
England	Access the supporting evidence and rationales on	• •	opical treatment (as in t	mpeligo)						
Last updated:										
Nov 2017										

Infection	Key points	Medicine	Doses	-	Length	Visual
			Adult	Child	Length	summary
Impetigo	Localised non-bullous impetigo:	Topical antiseptic:				
	Hydrogen peroxide 1% cream (other topical antiseptics are available but no evidence for	hydrogen peroxide 1%	BD or TDS		5 days*	
NUCE	impetigo).	Topical antibiotic:				
NICE	If hydrogen peroxide unsuitable or ineffective, short-course topical antibiotic.	First choice: fusidic acid 2%	TDS	weige sectoralization of the sector		
Dublic Llealth	Widespread non-bullous impetigo:	Fusidic acid resistance	TDS		5 days*	
Public Health England Short-course topical of	Short-course topical or oral antibiotic.	suspected or confirmed:				
Lingiana	Take account of person's preferences,	mupirocin 2%				
	practicalities of administration, previous use of	Oral antibiotic:				
Last updated:	topical antibiotics because antimicrobial	First choice:	500mg QDS			
Feb 2020	resistance can develop rapidly with extended or repeated use, and local antimicrobial resistance	flucloxacillin				
	data.	Penicillin allergy or	250mg BD			
	Bullous impetigo, systemically unwell, or high risk of complications:	flucloxacillin unsuitable:			5 days*	
	Short-course oral antibiotic.	erythromycin (in	250 to 500mg QDS			
	Do not offer combination treatment with a topical and oral antibiotic to treat impetigo.	pregnancy)	QDS			-
	*5 days is appropriate for most, can be increased to 7 days based on clinical judgement. <i>For detailed information click on the visual</i> <i>summary.</i>	If MRSA suspected or con	oiologist			
Leg ulcer	Manage any underlying conditions to promote	First-choice:				
infection	ulcer healing.	flucloxacillin	500mg to 1g QDS	-	7 days	_
	Only offer an antibiotic when there are	Penicillin allergy or if fluc				Lag also interface antivipability presenting NGC controls
NICE	symptoms or signs of infection (such as redness	doxycycline <b>OR</b>	200mg on day 1, then 100mg OD			
NICL	or swelling spreading beyond the ulcer, localised warmth, increased pain, or fever). Few leg		(can be increased			
	ulcers are clinically infected, but most are		to 200mg daily)	-	7 days	
Public Health	colonised by bacteria.	clarithromycin <b>OR</b>	500mg BD			
England		erythromycin (in pregnancy)	500mg QDS			

Infection	Key points	Med	icine	A	Doses	Child	Length	Visual summary
	When prescribing antibiotics, take account of severity, risk of complications and previous	Second choi		500/405				
Last updated: Feb 2020 Local Update April	antibiotic use. For detailed information click on the visual summary.	co-amoxiclav co-trimoxazol penicillin aller	e (in	960mg	img TDS BD	-	7 days	
2021	**Linezolid- for monitoring requirement see <u>LSCMMG</u> -if more than 14 days of treatment is required on the advice of Microbiology refer						ed skin & soft tissue used as a 10-14	
	back to secondary care	Linezolid tab	600mg BD (12 hourly)		Monitoring see <u>LSCM</u>	MG	10-14 days	
Cellulitis and	Exclude other causes of skin redness	For antibiotic choices if severely unwell or MRSA suspected or confirmed, click on the visual summary First choice:						
erysipelas				-	to 1g QDS		5 to 7 days*	
	Consider marking extent of infection with a single-use surgical marker pen.	clarithromycir		500mg	BD	and as seen to the set		
NICE	Offer an antibiotic. Take account of severity, site of infection, risk of uncommon pathogens, any	erythromycin pregnancy) <b>O</b>	R	500mg			-	
Public Health	microbiological results and MRSA status. Infection around eyes or nose is more	doxycycline (a OR co-amoxiclav	• •		on day 1, 0mg OD	-	5 to 7 days*	
England	concerning because of serious intracranial complications.	only: not in pe allergy)						Colors and angular under and angular and angular and angular and angular angul
	*A longer course (up to 14 days in total) may be	If infection n	ear eyes or n	ose:		•		A standard start and a start a
Last updated: Sept 2019	needed but skin takes time to return to normal, and full resolution at 5 to 7 days is not expected.	co-amoxiclav			img TDS		7 days*	
Local update March	Do not routinely offer antibiotics to prevent		ear eyes or n			/):	1	-
2021	recurrent cellulitis or erysipelas.	clarithromycir		500mg				
	For detailed information click on the visual summary.	metronidazole children if ana suspected)		400mg	TDS		7 days*	
	**Linezolid- for monitoring requirement see LSCMMG – if more than 14 days of treatment is	Specialist re					ed skin & soft tissue ised as a 10-14 day	

Infection	Key points	Med	icine		Doses	Child	L	_ength	Visual summary
	required with any extra days on the advice of Microbiology refer back to secondary care	Linezolid tab	600mg BD (12 hourly)		Monitoring see <u>LSCM</u>		ent 1	10-14 days**	
			ve choice ant RSA infectior						
Diabetic foot	In diabetes, all foot wounds are likely to be	Mild infection	n: first choice	;					
infection	has at least 2 of: local swelling or induration;	flucloxacillin		500mg	to 1g QDS	-	7 days	S*	
	erythema; local tenderness or pain; local		Mild infection (penicillin allergy):						
NICE		clarithromycir	n OR	500mg	BD				
		erythromycin	•	500mg QDS					
Public Health	Mild: local infection with 0.5 to less than 2cm	pregnancy) O	R				7 dovo*		Subarite fract industries and an available grounding HEE (2019) (a.)
England	erythema	doxycycline 200mg on day 1, then 100mg OD			- 7 days*	ays*			
0	<b>Moderate</b> : local infection with more than 2cm				increased				
	erythema or involving deeper structures (such as abscess, osteomyelitis, septic arthritis or				ng daily)				Finance The Dopp Conjunction Conference on the Dopp Conjunction of the Dopp
Last updated:	Last updated: fasciitis)		Specialist recommendation only: Treatment of complicated skin & soft tissue					& soft tissue	
Oct 2019			ne recommend	ation of a	microbiolog	ist when u	used as	a 10-14 day	
	Start antibiotic treatment as soon as possible.	Linezolid tab	600mg BD (12 hourly)		Monitoring see <u>LSCM</u>		ent 1	10-14 days**	

Infection	Key points	Medicine	Doses Adult	Child	Length	Visual summary
	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. <i>For detailed information click on the visual</i> <i>summary.</i> **Linezolid- for monitoring requirement see <u>LSCMMG</u> -if more than 14 days of treatment is required with any extra days on the advice of	For antibiotic choices for <i>Pseudomonas aeruginosa</i> antibiotics contact local m	moderate or severe a or MRSA is suspec	infection,		
Tick bites (Lyme disease) Public Health England Last updated: Feb 2020	Microbiology <b>Treatment</b> : Treat erythema migrans <b>empirically</b> ; serology is often negative early in infection. <sup>1D</sup> For other suspected Lyme disease such as neuroborreliosis (CN palsy, radiculopathy) seek advice. <sup>1D</sup>	Treatment: doxycycline <sup>1D</sup> Alternative: amoxicillin <sup>1D</sup>	100mg BD <sup>1D</sup> 1,000mg TDS <sup>1D</sup>	BNF for children BNF for children	21 days <sup>1D</sup>	Not available. Access supporting evidence and rationales on the <u>PHE</u> website
Acne Public Health England	Mild (open and closed comedones) <sup>1D</sup> or moderate (inflammatory lesions): <sup>1D</sup> First line: self-care <sup>1D</sup> (wash with mild soap; do not scrub; avoid make-up). <sup>1D</sup> Second line: topical retinoid or benzoyl peroxide. <sup>2D</sup>	Second line: topical retinoid <sup>1D,2D,3A+</sup> OR benzoyl peroxide <sup>1A-</sup> ,2D,3A+,4A- Third-line: topical clindamycin <sup>3A+</sup>	Thinly OD <sup>3A+</sup> 5% cream OD- BD <sup>3A+</sup> 1% cream, thinly BD <sup>3A+</sup>	BNF for children BNF for children BNF for children	6 to 8 weeks <sup>1D</sup> 6 to 8 weeks <sup>1D</sup> 12 weeks <sup>1A-,2D</sup>	Not available. Access supporting evidence and rationales on the <u>PHE</u> <u>website</u>

Infection	Key points	Medicine	Doses		Length	Visual
intection			Adult	Child		summary
Last updated: Nov 2017	<ul> <li>Third-line: add topical antibiotic,<sup>1D,3A+</sup> or consider addition of oral antibiotic.<sup>1D</sup></li> <li>Severe (nodules and cysts):<sup>1D</sup> add oral antibiotic (for 3 months max)<sup>1D,3A+</sup> and refer.<sup>1D,2D</sup></li> </ul>	If treatment failure/severe: oral tetracycline <sup>1A-,3A</sup> + OR	500mg BD <sup>3A+</sup>	BNF for children	6 to 12 weeks <sup>3A+</sup>	
		oral doxycycline <sup>3A+,4A-</sup>	100mg OD <sup>3A+</sup>	BNF for children	6 to 12 weeks <sup>3A+</sup>	
Scabies	<b>First choice permethrin</b> : Treat whole body from ear/chin downwards, <sup>1D,2D</sup> and under	permethrin <sup>1D,2D,3A+</sup>	5% cream <sup>1D,2D</sup>	BNF for children		Not available. Access supporting evidence and rationales on the <u>PHE</u> website
Public Health England Last updated: Oct 2018	nails. <sup>1D,2D</sup> <b>If using permethrin</b> and patient is under 2 years, elderly or immunosuppressed, or <b>if</b> <b>treating with malathion</b> : also treat face and scalp. <sup>1D,2D</sup>	Permethrin allergy: malathion <sup>1D</sup>	0.5% aqueous liquid <sup>1D</sup>	BNF for children	2 applications, 1 week apart <sup>1D</sup>	
	Home/sexual contacts: treat within 24 hours. <sup>1D</sup>					
Bites	<b>Human</b> : thorough irrigation is important. <sup>1A+,2D</sup> Antibiotic prophylaxis is advised. <sup>1A+,2D,3D</sup> Assess	Prophylaxis/treatment all: co-amoxiclav <sup>2D,3D</sup>	375mg to 625mg TDS <sup>3D</sup>	BNF for children	7 days <sup>3D</sup>	
Public Health England	risk of tetanus, rabies, <sup>1A+</sup> HIV, and hepatitis B and C. <sup>3D</sup> <b>Cat</b> : always give prophylaxis. <sup>1A+,3D</sup>	Human + penicillin allergy: metronidazole <sup>3D,4A+</sup> AND	400mg TDS <sup>2D</sup>	BNF for children	7 days <sup>3D</sup>	Not available. Access supporting evidence and rationales on the <u>PHE</u> website
	<b>Dog</b> : give prophylaxis if: puncture wound; <sup>1A+,3D</sup> bite to hand, foot, face, joint, tendon, or	clarithromycin <sup>3D,4A+</sup>	250mg to 500mg BD <sup>2D</sup>	BNF for children		
Last updated: July 2019	ligament; <sup>1A+</sup> immunocompromised; cirrhotic; asplenic; or presence of prosthetic valve/joint. <sup>2D,4A+</sup>	Animal + penicillin allergy: metronidazole <sup>3D,4A+</sup> AND	400mg TDS <sup>2D</sup>	BNF for children	7 days <sup>3D</sup>	

Infection	Key points	Medicine	Doses		Length	Visual
intection			Adult	Child	Lengui	summary
	<b>Penicillin allergy</b> : Review all at 24 and 48 hours, <sup>3D</sup> as not all pathogens are covered. <sup>2D,3</sup>	doxycycline <sup>3D</sup>	100mg BD <sup>2D</sup>	Crind		Summary

<b>Mastitis</b> Public Health England Last updated:	<i>S. aureus</i> is the most common infecting pathogen. <sup>1D</sup> Suspect if woman has: a painful breast; <sup>2D</sup> fever and/or general malaise; <sup>2D</sup> a tender, red breast. <sup>2D</sup> <b>Breastfeeding</b> : oral antibiotics are appropriate, where indicated. <sup>2D,3A+</sup> Women should continue feeding, <sup>1D,2D</sup> including from the affected breast. <sup>2D</sup>	flucloxacillin <sup>2D</sup> <b>Penicillin allergy:</b> erythromycin <sup>2D</sup> <b>OR</b> clarithromycin <sup>2D</sup>	500mg QDS <sup>2D</sup> 250mg to 500mg           QDS <sup>2D</sup> 500mg BD <sup>2D</sup>	-	10 to 14 days <sup>2D</sup>	Not available. Access supporting evidence and rationales on the <u>PHE</u> website
Nov 2017 Dermatophyte infection: skin	<b>Most cases</b> : use terbinafine as fungicidal, treatment time shorter and more effective than	topical terbinafine <sup>3A+,4D</sup> OR	1% OD to BD <sup>2A+</sup>	BNF for children	1 to 4 weeks <sup>3A+</sup>	
Public Health England	with fungistatic imidazoles or undecenoates. <sup>1D,2A+,</sup> If candida possible, use imidazole. <sup>4D</sup>	topical imidazole <sup>2A+,3A+</sup>	1% OD to BD <sup>2A+</sup>	BNF for children		Not available. Access supporting
Last updated: Feb 2019	<b>If intractable, or scalp</b> : send skin scrapings, <sup>1D</sup> and if infection confirmed: use oral terbinafine <sup>1D,3A+,4D</sup> or itraconazole. <sup>2A+,3A+,5D</sup>	foot: topical undecenoates2A+ (such as Mycota®)2A+		BNF for children	4 to 6 weeks <sup>2A+,3A+</sup>	evidence and rationales on the <u>PHE</u> <u>website</u>
	<b>Scalp</b> : oral therapy, <sup>6D</sup> and discuss with specialist. <sup>1D</sup>					

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

Infection	Key points	Medicine	Doses		Length	Visual summary	
Infection			Adult	Child			
Eye infect	ions						
Conjunctivitis Public Health England Last updated: July 2019	<ul> <li>First line: bath/clean eyelids with cotton wool dipped in sterile saline or boiled (cooled) water, to remove crusting.<sup>1D</sup></li> <li>Treat only if severe,<sup>2A+</sup> as most cases are viral<sup>3D</sup> or self-limiting.<sup>2A+</sup></li> <li>Bacterial conjunctivitis: usually unilateral and also self-limiting.<sup>2A+,3D</sup> It is characterised by red eye with mucopurulent, not watery discharge.<sup>3D</sup></li> <li>65% and 74% resolve on placebo by days 5 and 7.<sup>4A-,5A</sup>+ Third line: fusidic acid as it has less Gram-negative activity.<sup>6A-,7D</sup></li> </ul>	Second line: chloramphenicol <sup>1D,2A+,4A-</sup> , <sup>5A+</sup> 0.5% eye drop <sup>1D,2A+</sup> OR 1% ointment <sup>1D,5A+</sup>	Eye drops: 2 hourly for 2 days, <sup>1D,2A+</sup> then reduce frequency <sup>1D</sup> to 3 to 4 times daily. <sup>1D</sup> Eye ointment: 3 to 4 times daily or once daily at night if using antibiotic eye drops during the day. <sup>1D</sup>	BNF for children	48 hours after resolution <sup>2A+,7D</sup>		Not available. Access supporting evidence and rationales on the <u>PHE</u> <u>website</u>
		Third line: fusidic acid 1% gel <sup>2A+,5A+,6A-</sup>	BD <sup>1D,7D</sup>	BNF for children			
<b>Blepharitis</b> Public Health	<b>First line</b> : lid hygiene <sup>1D,2A+</sup> for symptom control, <sup>1D</sup> including: warm compresses; <sup>1D,2A+</sup> lid massage and scrubs; <sup>1D</sup> gentle washing; <sup>1D</sup>	Second line: topical chloramphenicol <sup>1D,2A+,3A-</sup>	1% ointment BD <sup>2A+,3D</sup>	BNF for children	6-week trial <sup>3D</sup>	Not available. Access	
England	avoiding cosmetics. <sup>1D</sup> <b>Second line</b> : topical antibiotics if hygiene measures are ineffective after 2 weeks. <sup>1D,3A+</sup>	Third line: oral oxytetracycline <sup>1D,3D</sup> OR	500mg BD <sup>3D</sup> 250mg BD <sup>3D</sup>	BNF for children	4 weeks (initial) <sup>3D</sup> 8 weeks (maint) <sup>3D</sup>	supporting evidence and rationales on the PHE	
Last updated: Nov 2017	<b>Signs of meibomian gland dysfunction</b> , <sup>3D</sup> or acne rosacea: <sup>3D</sup> consider oral antibiotics. <sup>1D</sup>	oral doxycycline <sup>1D,2A+,3D</sup>	100mg OD <sup>3D</sup> 50mg OD <sup>3D</sup>	BNF for children	4 weeks (initial) <sup>3D</sup> 8 weeks (maint) <sup>3D</sup>	website	
▼ Suspected	dental infections in primary care (outside o	dental settings)					
conditions, as GF	e <u>Scottish Dental Clinical Effectiveness Programme</u> Ps should not be involved in dental treatment. Patier r if this is not possible, to the NHS 111 service (in E	nts presenting to non-dental	primary care services v	vith denta	l problems should be	directed to thei	
Note: Antibiotics de	o not cure toothache. <sup>1D</sup> First-line treatment is with parace	tamol <sup>1D</sup> and/or ibuprofen; <sup>1D</sup> code	eine is not effective for too	othache.1D			
Abbreviati	ions						
	eGFR, estimated glomerular filtration rate; IM, intrai ; MRSA, methicillin-resistant <i>Staphylococcus aureu</i> es a day.						