



## Summary of antimicrobial prescribing guidance – managing common infections

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

Key: Click to access doses for children Click to access NICE's printable visual summary

Jump to section on:

Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Rey points	Wiedicifie	Adult	Child	Lengui	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*	
NICE	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	
Public Health	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 (if macrolide needed in pregnancy; consider benefit/harm)	250mg to 500mg QDS or 500mg to 1000mg BD	Management of the second of th	5 days	See their pank emissions purpling and
England	Systemically very unwell or high risk of complications: immediate antibiotic.		BD	White State of the Control of the Co		
Last updated: Feb 2023	*5 days of phenoxymethylpenicillin may be enough for symptomatic cure; but a 10-day course may increase the chance of microbiological cure.					
	For detailed information click the visual summary icon.					

Infection	Koy nainta	Medicine	Doses		Longth	Visual
miection	Key points	Wealcine	Adult	Child	Length	summary
Influenza Public Health England	Annual vaccination is essential for all those 'at Treat 'at risk' patients with 5 days oseltamivir 75m (36 hours for zanamivir treatment in children), 1D,3D At risk: pregnant (and up to 2 weeks post-partum	g BD, <sup>1D</sup> when influenza is circ or in a care home where influ ); children under 6 months; ac	culating in the commu uenza is likely. <sup>1D,2A+</sup> dults 65 years or oldel	nity, and i r; chronic	deally within 48 hours	ncluding COPD
Last updated: Feb 2019	and asthma); significant cardiovascular disease (n diabetes mellitus; morbid obesity (BMI>40). <sup>4D</sup> See immunosuppression, or oseltamivir resistance, use advice. <sup>4D</sup> Access supporting evidence and rationales on the PHE	e the <u>PHE Influenza</u> guidance e zanamivir 10mg BD <sup>5A+,6A+</sup> (2	for the treatment of p	atients un	der 13 years. <sup>4D</sup> In sev	/ere
Acute otitis	Regular paracetamol or ibuprofen for pain (right	First choice: amoxicillin	-		5 to 7 days	
media	dose for age or weight at the right time and maximum doses for severe pain).	Penicillin allergy: clarithromycin OR	-		5 to 7 days	_
NICE	Consider ear drops containing an anaesthetic and an analgesic for pain if an immediate antibiotic is not given and there is no ear drum perforation or otorrhoea.	erythromycin (if macrolide needed in pregnancy; consider benefit/harm)	-	The second secon		Ottos media (acutini antimicrobia) prescribing mer
Public Health England	Otorrhoea or under 2 years with infection in both ears: no, back-up or immediate antibiotic.	Second choice: co- amoxiclav	-	CONTROL OF THE PROPERTY OF T	5 to 7 days	
Last updated: Mar 2022	Otherwise: no or back-up antibiotic.  Systemically very unwell or high risk of complications: immediate antibiotic.  For detailed information click on the visual summary.					
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 or topical	Second line: topical acetic acid 2% <sup>2D,4B-</sup> OR	1 spray TDS <sup>5A</sup> -	BNF for children	7 days <sup>5A</sup>	
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>	BNF	7 days (min) to 14 days (max) <sup>3A+</sup>	Not available. Access supporting
Last updated: Nov 2017	If cellulitis or disease extends outside 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>		for children		evidence and rationales on the <u>PHE</u> website
	externa. <sup>1D</sup>	If cellulitis: flucloxacillin <sup>7B+</sup>	250mg QDS <sup>2D</sup> If severe: 500mg QDS <sup>2D</sup>	BNF for children	7 days <sup>2D</sup>	<u>wensite</u>

Infection	Key points	Medicine	Doses	Doses		Visual
Infection		Wedicitie	Adult	Child	Length	summary
Scarlet fever (GAS) Public Health England Last updated: Feb 2023	Guidance is available from appendix 1 of the UKF and other childcare settings.	ISA guidelines for the public h	nealth management of	scarlet fe	ever outbreaks in scl	hools, nurseries
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.  Symptoms for 10 days or less: no antibiotic.	Penicillin allergy: doxycycline (not in under 12s) OR	200mg on day 1, then 100mg OD			
MICE	Symptoms with no improvement for more	clarithromycin <b>OR</b>	500mg BD	-	5 days	Simulatis (possible) artifesionability prescribing MACC
Public Health England	than 10 days: no antibiotic or back-up antibiotic depending on likelihood of bacterial cause.  Consider high-dose nasal corticosteroid (if over	erythromycin (if macrolide needed in pregnancy; consider benefit/harm)	250 to 500mg QDS or 500 to 1000mg BD	The second secon	Juays	
Last updated: Oct 2017	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:	500/125mg TDS		5 days	
▼ Lower res	piratory tract infections					
COVID-19 NICE	Antibiotics should not be used for preventing or tro Do not use azithromycin to treat COVID-19. Do not use doxycycline to treat COVID-19 in the or	-	e is clinical suspicion o	f addition	al bacterial co-infec	tion.
	Do not offer an antibiotic for preventing secondary	/ bacterial pneumonia in peop	le with COVID-19.			
Last updated: December 2021	If a person in the community has suspected or co community-acquired pneumonia for choices.	nfirmed secondary bacterial p	neumonia, start antibi	otic treatr	ment as soon as pos	ssible, see
	In hospital, start empirical antibiotics if there is clir pneumonia for choices. Start antibiotics as soon a 4 hours. Start treatment within 1 hour if the person guideline on sepsis.	as possible after establishing a	a diagnosis of seconda	ary bacter	rial pneumonia, and	certainly within
	For detailed information, see the NICE guideline on ma	naging COVID-19.				

Infaction	Voy points	Madiaina	Doses		Longth	Visual
Infection	Key points	Medicine	Adult	Child	Length	summary
Acute exacerbation of COPD	infections so will not respond to antibiotics.  Consider an antibiotic, but only after taking into account severity of symptoms (particularly sputum colour changes and increases in volume or thickness), need for hospitalisation, previous exacerbations, hospitalisations and risk of	First choice: amoxicillin OR	500mg TDS (see BNF for severe infection)	-		
NICE		doxycycline <b>OR</b>	200mg on day 1, then 100mg OD (see BNF for severe infection)	-	5 days	
		clarithromycin	500mg BD	-	-	
Dublic Health	repeated courses.	Second choice: use altern	native first choice			COPO & Literaturalisation in University grap, buy Net server.
Public Health England	Some people at risk of exacerbations may have antibiotics to keep at home as part of their exacerbation action plan.	Alternative choice (if person at higher risk of treatment failure): co-amoxiclav OR	500/125mg TDS	-		
Last updated: Dec 2018	See also the <u>NICE guideline on COPD in over 16s</u> .	co-trimoxazole <b>OR</b>	960mg BD	-	-	
B60 2010		levofloxacin (with specialist advice if co- amoxiclav or co- trimoxazole cannot be used; consider safety issues)	500mg OD	-	5 days	
		IV antibiotics (click on visi	ual summary)	•	•	

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

Infaction	Koy nointo	Madiaina	Doses		Longth	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 limited evidence for the relief of cough symptoms.  Acute cough with upper respiratory tract infection: no antibiotic.  Acute bronchitis: no routine antibiotic.  Acute cough and higher risk of complications (at face-to-face examination): immediate or back-up antibiotic.  Acute cough and systemically very unwell (at face to face examination): immediate	Adults alternative first choices: amoxicillin (preferred if pregnant) OR	500mg TDS	-	E dovo	
Public Health	symptoms.	clarithromycin <b>OR</b>	250mg to 500mg BD	_	5 days	
England	1	erythromycin (if macrolide needed in pregnancy;	250mg to 500mg QDS or			
	Acute bronchitis: no routine antibiotic.	consider benefit/harm)	500mg to 1000mg	-		
Feb 2019	complications (at face-to-face examination):	,	BD			Coat Section of this section.
		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 includes people with	erythromycin <b>OR</b>				
	pre-existing comorbidity; young children born prematurely; people over 65 with 2 or more of, or over 80 with 1 or more of: hospitalisation in previous year, type 1 or 2 diabetes, history of congestive heart failure, current use of oral corticosteroids.	doxycycline (not in under 12s)	_	Garage Control of the	5 days	and the second s
	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.					

Infection	Key points	Medicine	Doses		Length	Visual
Intection	Rey points	Wedicine	Adult	Child	Lengin	summary
Hospital- acquired pneumonia	If symptoms or signs of pneumonia start within 48 hours of hospital admission, see community acquired pneumonia.  Offer an antibiotic. Start treatment as soon as	First choice (non-severe and not higher risk of resistance): co-amoxiclav	500/125 mg TDS	Eggster in an and a second of the second of	5 days then review	
NICE	possible after diagnosis, within 4 hours (within 1 hour if sepsis suspected and person meets any high risk criteria – see the NICE guideline on sepsis).	Adults alternative first choice (non-severe and not higher risk of resistance)	200mg on day 1, then 100mg OD			
Public Health England Last updated: Sept 2019	When choosing an antibiotic, take account of severity of symptoms or signs, number of days in hospital before onset of symptoms, risk of developing complications, local hospital and ward-based antimicrobial resistance data, recent	Choice based on specialist microbiological advice and local resistance data  Options include: doxycycline		-		
	antibiotic use and microbiological results, recent contact with a health or social care setting before current admission, and risk of adverse effects with broad spectrum antibiotics.	cefalexin (caution in penicillin allergy)	500 mg BD or TDS (can increase to 1 to 1.5g TDS or QDS)	-	5 days then review	Personal authorized enteriors providing and
	No validated severity assessment tools are available. Assess severity of symptoms or signs	co-trimoxazole	960mg BD	-	-	Account of the control of the contro
	based on clinical judgement.  Higher risk of resistance includes relevant comorbidity (such as severe lung disease or immunosuppression), recent use of broad spectrum antibiotics, colonisation with multi-drug	levofloxacin (only if switching from IV levofloxacin with specialist advice; consider safety issues)	500mg OD or BD	-		The state of the s
	resistant bacteria, and recent contact with health and social care settings before current admission.  If symptoms or signs of pneumonia start within days 3 to 5 of hospital admission in people not at higher risk of resistance, consider following community acquired pneumonia for choice of antibiotic.  For detailed information click on the visual summary.	Children alternative first choice (non-severe and not higher risk of resistance): clarithromycin Other options may be suitable based on specialist microbiological advice and local resistance data	-	e granden e e e e e e e e e e e e e e e e e e	-	
		For first choice IV antibiot antibiotics to be added if s visual summary				

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

Infection	Key points	Medicine	Doses		Length	Visual
miection	Ney points		Adult	Child	Lengui	summary
		Alternative first choice (high severity in adults): levofloxacin (consider	500mg BD	-		
		safety issues)				
		IV antibiotics (click on visu	al summary)	-1	l	
▼ Urinary tra	act infections					
Lower urinary	Advise paracetamol or ibuprofen for pain.	Non-pregnant women	100mg m/r BD (or			
tract infection	Non-pregnant women: back up antibiotic (to use if no improvement in 48 hours or symptoms worsen at any time) or immediate antibiotic.	first choice: nitrofurantoin (if eGFR ≥45 ml/minute) <b>OR</b>	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 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 (or if unavailable 50mg QDS)	-	3 days	
	resistant bacteria and local antimicrobial resistance data.	pivmecillinam (a penicillin) OR	400mg initial dose, then 200mg TDS	-	3 days	
Last updated: Oct 2018	If people have symptoms of pyelonephritis (such as fever) or a complicated UTI, see <u>acute</u>	fosfomycin	3g single dose sachet	-	single dose	III) Down within child poerribig
	pyelonephritis (upper urinary tract infection) for antibiotic choices.  For detailed information click on the visual summary. See also the NICE guideline on urinary tract infection in under 16s: diagnosis and management and the	Pregnant women first choice: nitrofurantoin (avoid at term) – if eGFR ≥45 ml/minute	100mg m/r BD (or if unavailable 50mg QDS)	-	7 days	
	Public Health England <u>urinary tract infection:</u> diagnostic tools for primary care.	Pregnant women second choice: amoxicillin (only if culture results available and susceptible) OR	500mg TDS	-	7 days	
		cefalexin	500mg BD	-		
		Treatment of asymptomat nitrofurantoin (avoid at term and susceptibility results				

Infection	Key points	Medicine	Doses		Longth	Visual
Intection	Key points	Wiedicine	Adult	Child	Length	summary
		Men first choice: trimethoprim OR	200mg BD	-		
		nitrofurantoin (if eGFR ≥45 ml/minute)	100mg m/r BD (or if unavailable 50mg QDS)	-	7 days	
		Men second choice: consider on recent culture and susceptions.		ses 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	-	James Parkers	-	
		amoxicillin (only if culture results available and susceptible) <b>OR</b>	-			
		cefalexin	-			

Infaction	Key points	Madiaina	Doses		Longth	Visual
Infection	key points	Medicine	Adult	Child	Length	summary
Acute pyelonephritis (upper urinary tract)	for pain for people over 12.  Offer an antibiotic.  When prescribing antibiotics, take account of severity of symptoms, risk of complications, previous urine culture and susceptibility results, previous antibiotic use which may have led to resistant bacteria and local antimicrobial resistance data.  Avoid antibiotics that don't achieve adequate levels in renal tissue, such as nitrofurantoin.	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	
NICE		co-amoxiclav (only if culture results available and susceptible) <b>OR</b>	500/125mg TDS	-	7 to 10 days	
		trimethoprim (only if culture results available and susceptible) <b>OR</b>	200mg BD	-	14 days	-
Public Health England	For detailed information click on the visual summary. See also the NICE guideline on urinary tract infection in under 16s: diagnosis and management and the	ciprofloxacin (consider safety issues)	500mg BD	-	7 days	Psychosophilis (noted) and monophilis posses blade. McCa community of the company
	Public Health England urinary tract infection:	Non-pregnant women and	men IV antibiotics (	click on vi	isual summary)	Secretarion of the second of t
Last updated: Oct 2018	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	choice or IV antibioti	cs (click o	on visual summary)	
		Children and young people (3 months and over) first choice: cefalexin OR	-	10   10   10   10   10   10   10   10	-	
		co-amoxiclav (only if culture results available and susceptible)	-	Silve space advantage of the state of the st		
		Children and young peopl visual summary)	e (3 months and ove	r) IV anti	biotics (click on	

Infontion	Vou nointe	Madiaina	Doses		1	Visual
Infection	Key points	Medicine	Adult	Child	Length	summary
Acute prostatitis	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	First choice (guided by susceptibilities when available): ciprofloxacin (consider safety issues) OR	500mg BD	-	44 days than	
NICE	14 days if needed (based on assessment of history, symptoms, clinical examination, urine	ofloxacin (consider safety issues) <b>OR</b>	200mg BD	_	- 14 days then review	
Public Health England	and blood tests).  For detailed information click on the visual summary	trimethoprim (if fluoroquinolone not appropriate; seek specialist advice)	200mg BD	-	14 days then review	Promotific bound withouthold pre-chibing. Mexiculary
Last updated: Oct 2018		Second choice (after discussion with specialist): levofloxacin (consider safety issues) OR	500mg OD	-		900 September 1
		co-trimoxazole	960mg BD	<b>†</b> -	-	
		IV antibiotics (click on visua	al summary)			
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 state of the se	-	
NICE Public Health	For postmenopausal women, if no improvement, consider vaginal oestrogen (review within 12 months).  For non-pregnant women, if no improvement, consider single-dose antibiotic prophylaxis for	nitrofurantoin (avoid at term) - if eGFR ≥45 ml/minute	100mg single dose when exposed to a trigger or 50 to 100mg at night	Parameter Section 1997	-	27 Inscretti protocolis practing we wre-
England  Last updated Oct 2018	exposure to a trigger (review within 6 months).  For non-pregnant women (if no improvement or no identifiable trigger) or with specialist advice for pregnant women, men, children or young	Second choice antibiotic prophylaxis: amoxicillin OR	500mg single dose when exposed to a trigger or 250mg at night		-	
	people, consider a trial of daily antibiotic prophylaxis (review within 6 months).  For detailed information click on the visual summary. See also the NICE guideline on urinary tract infection in under 16s: diagnosis and management and the Public Health England urinary tract infection: diagnostic tools for primary care.	cefalexin	500mg single dose when exposed to a trigger or 125mg at night	The second secon	-	

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Infection	Key points	Medicine	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 (or if unavailable 50mg QDS)	-	- 7 days	
	7 days. But do not delay antibiotic treatment.  Advise paracetamol for pain.  Advise drinking enough fluids to avoid dehydration.  Offer an antibiotic for a symptomatic infection.  When prescribing antibiotics, take account of severity of symptoms, risk of complications, previous urine culture and susceptibility results, previous antibiotic use which may have led to resistant bacteria and local antimicrobial	trimethoprim (if low risk of resistance) <b>OR</b>	200mg BD	-	1 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	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.	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	Texts
	See also the <u>Public Health England urinary tract</u> <u>infection: diagnostic tools for primary care</u> .	co-amoxiclav (only if culture results available and susceptible) <b>OR</b>	500/125mg TDS	-		
		trimethoprim (only if culture results available and susceptible) <b>OR</b>	200mg BD	_	14 days	
		ciprofloxacin (consider safety issues)	500mg BD	-	7 days	
		Non-pregnant women and	men IV antibiotics (	click on v	isual summary)	
		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	choice or IV antibiot	ics (click	on visual summary)	

Infection	Key points	Medicine	Doses		Longth	Visual
iniection	Rey points	Wiedicine	Adult	Child	Length	summary
		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>	-	The second secon	-	
		cefalexin <b>OR</b>	-			
		co-amoxiclav (only if culture results available and susceptible)	-			
		Children and young peopl visual summary)	e (3 months and ov	er) IV anti	biotics (click on	
▼ 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 <sup>1D,2D</sup>	Child <1 year: 300 Child 1 to 9 years: Adult/child 10+ yea	600mg <sup>5D</sup> ars: 1.2g <sup>5D</sup>	Stat dose; <sup>1D</sup> give IM, if vein cannot be accessed <sup>1D</sup>	Not available. Access the supporting evidence and rationales on the PHE website
Prevention of secondary case of meningitis Public Health England Last updated: July 2019	Only prescribe following advice from your local he Out of hours: contact on-call doctor:   [INSERT For Expert advice is available for managing clusters of Public Health England, Colindale (tel: 0208 200 44 AWARe (all Wales Acute Response team) (tel: 03 Access the supporting evidence and rationales on the Expert Acute Response team)	PHONE NUMBER] f meningitis. Please alert the a 400) 00 003 0032)	-		-	

Infontion	Key points	Medicine	Doses		Longeth	Visual
Infection	• •		Adult	Child	Length	summary
<b>▼</b> Gastroint	estinal tract infections					
Oral candidiasis	<b>Topical azoles</b> are more effective than topical nystatin. 1A+  Oral candidiasis is rare in immunocompetent	Miconazole oral gel <sup>1A+,4D,5A-</sup>	2.5ml of 24mg/ml QDS (hold in mouth after food)	BNF for children	7 days; continue for 7 days after resolved <sup>4D,6D</sup>	Not available.
Public Health	adults; <sup>2D</sup> consider undiagnosed risk factors,		4D		resolved	Access supporting
England	including HIV. <sup>2D</sup> Use 50mg fluconazole if extensive/severe candidiasis; <sup>3D,4D</sup> if HIV or immunocompromised,	If not tolerated: nystatin suspension <sup>2D,6D,7A</sup> -	1ml; 100,000units/ml QDS (half in each	BNF for children	7 days; continue for 2 days after	evidence and rationales on
Last updated: Oct 2018	use 100mg fluconazole. <sup>3D,4D</sup>		side) <sup>2D,4D,7A</sup> -		resolved <sup>4D</sup>	the <u>PHE</u> <u>website</u>
	Defor proviously healthy shildren with sairte asia	fluconazole capsules <sup>6D,7A</sup> -	50mg/100mg OD <sup>3D,6D,8A-</sup>	For children	7 to 14 days <sup>6D,7A</sup> -	
Infectious diarrhoea	Refer previously healthy children with acute painfold	•				
Public Health England Last updated: Oct 2018	Antibiotic therapy is not usually indicated unler as undercooked meat and abdominal pain), 3D conditions of the supporting evidence and rationales on the left.	sider clarithromycin 250mg to g single dose is the treatment	500mg BD for 5 to 7	ly unwell a	and campylobacter so eated early (within 3 o	uspected (such days). <sup>3D,4A+</sup>
Traveller's diarrhoea	Prophylaxis rarely, if ever, indicated. <sup>1D</sup> Consider <b>standby</b> antimicrobial only for patients at high	Standby: azithromycin	500mg OD <sup>1D,3A+</sup>	-	1 to 3 days <sup>1D,2D,3A+</sup>	Not available. Access
Public Health England Last updated: Oct 2018	risk of severe illness, <sup>2D</sup> or visiting high-risk areas. <sup>1D,2D</sup>	Prophylaxis/treatment: bismuth subsalicylate	2 tablets QDS <sup>1D,2D</sup>	-	2 days <sup>1D,2D,4A</sup> -	- supporting evidence and rationales on the <u>PHE</u> website
Threadworm  Public Health	time.1D	Adult/Child >6 months: 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.
England  Last updated:	(hand hygiene; <sup>2D</sup> pants at night; morning shower, including perianal area). <sup>1D,2D</sup> Wash sleepwear, bed linen, and dust and vacuum. <sup>1D</sup>	Child <6 months or pregnant woman (at least	-	-	-	- Access supporting evidence and

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

Infantion	Voy nointe	Madiaina	Doses		l avanth	Visual
Infection	Key points	Medicine	Adult	Child	Length	summary
Helicobacter pylori	Always test for <i>H.pylori</i> before giving antibiotics. Treat all positives, if known DU, GU, <sup>1A+</sup> or low-grade MALToma. <sup>2D,3D</sup> NNT in non-ulcer dyspepsia: 14. <sup>4A+</sup>	Always use PPI <sup>2D,3D,5A+,12A+</sup> First line and first relapse and no penicillin	-	BNF for children		
Public Health England	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>	allergy PPI PLUS 2 antibiotics amoxicillin <sup>2D,6B+</sup> PLUS	1000mg BD <sup>14A+</sup>	BNF for children		
See PHE quick reference guide	Penicillin allergy: use PPI PLUS clarithromycin PLUS metronidazole. <sup>2D</sup> If previous	clarithromycin <sup>2D,6B+</sup> <b>OR</b> metronidazole <sup>2D,6B+</sup>	500mg BD <sup>8A-</sup> 400mg BD <sup>2D</sup>	BNF for children		
for diagnostic advice: PHE H. pylori	clarithromycin, use PPI PLUS bismuth salt PLUS metronidazole PLUS tetracycline hydrochloride. 2D,8A-,9D  Relapse and no penicillin allergy use PPI PLUS amoxicillin PLUS clarithromycin or	Penicillin allergy and previous clarithromycin: PPI WITH bismuth subsalicylate PLUS	-	for children	7 days <sup>2D</sup> MALToma	
Last updated: Feb 2019	metronidazole (whichever was not used first line) <sup>2D</sup> Relapse and previous metronidazole and clarithromycin: use PPI PLUS amoxicillin	2 antibiotics bismuth subsalicylate <sup>13A+</sup> PLUS metronidazole <sup>2D</sup> PLUS	525mg QDS <sup>15D</sup> 400mg BD <sup>2D</sup>	BNF for children	14 days <sup>7A+,16A+</sup> -	Not available. Access supporting evidence and
	PLUS either tetracycline OR levofloxacin (if	tetracycline <sup>2D</sup>	500mg QDS <sup>15D</sup>	lorcillateri	-	rationales on
	tetracycline not tolerated). <sup>2D,7A+</sup> <b>Relapse and penicillin allergy (no exposure to quinolone)</b> : use PPI <b>PLUS</b> metronidazole <b>PLUS</b> levofloxacin. <sup>2D</sup>	Relapse and previous metronidazole and clarithromycin: PPI PLUS 2 antibiotics	-	-		the PHE website
	Relapse and penicillin allergy (with exposure to quinolone): use PPI PLUS bismuth salt	amoxicillin <sup>2D,7A+</sup> <b>PLUS</b>	1000mg BD <sup>14A+</sup>	BNF for children	-	
	PLUS metronidazole PLUS tetracycline. <sup>2D</sup> Retest for <i>H. pylori</i> : post DU/GU, or relapse	tetracycline <sup>2D,7A+</sup> <b>OR</b> levofloxacin (if tetracycline cannot be used) <sup>2D,7A+</sup>	500mg QDS <sup>15D</sup> 250mg BD <sup>7A+</sup>			
	after second-line therapy, <sup>1A+</sup> using UBT or SAT, <sup>10A+,11A+</sup> consider referral for endoscopy and culture. <sup>2D</sup>	Third line on advice: PPI WITH	-	-		
	3	bismuth subsalicylate PLUS	525mg QDS <sup>15D</sup>	-	10 days	
		2 antibiotics as above not previously used <b>OR</b>	-	-	10 days	
		rifabutin <sup>14A+</sup> <b>OR</b>	150mg BD	_		
		furazolidone <sup>17A+</sup>	200mg BD	-		

lufo eti e u	Voy points	Madiaina	Doses		l ou sith	Visual	
Infection	Key points	Medicine	Adult	Child	Length	summary	
Acute diverticulitis	Acute diverticulitis and systemically well: Consider no antibiotics, offer simple analgesia (for example paracetamol), advise to re-present if symptoms persist or worsen.	First-choice (uncomplicated acute diverticulitis): co-amoxiclav	500/125mg TDS	-		Downhale disease settinicatal proceding stationary.	
NICE  Last updated: Nov 2019	Acute diverticulitis and systemically unwell, immunosuppressed or significant comorbidity: offer an antibiotic.  Give oral antibiotics if person not referred to hospital for suspected complicated acute diverticulitis.	Penicillin allergy or co-amoxiclav unsuitable: cefalexin (caution in penicillin allergy) AND metronidazole OR	cefalexin: 500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections) metronidazole: 400mg TDS	-	5 days*		
		trimethoprim AND metronidazole OR	trimethoprim: 200mg BD metronidazole: 400mg TDS	-			
		ciprofloxacin (only if switching from IV ciprofloxacin with specialist advice; consider safety issues) AND metronidazole	ciprofloxacin: 500mg BD metronidazole: 400mg TDS				
		For IV antibiotics in comp diverticular abscess) see	cluding				
▼ Genital tra	act infections						
STI screening Public Health England Last updated: Nov 2017	People with risk factors should be screened for che Risk factors: <25 years; no condom use; recent/f Access the supporting evidence and rationales on the E	requent change of partner; sy	• •		•		
Epididymitis	Usually due to Gram-negative enteric bacteria in	Doxycycline <sup>1A+,2D</sup> <b>OR</b>	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. 1A+,2D	ofloxacin <sup>1A+,2D</sup> <b>OR</b>	200mg BD <sup>1A+,2D</sup>		14 days <sup>1A+,2D</sup>	Access supporting	
Public Health England Last updated: Nov 2017	If under 35 years or STI risk, refer to GUM.1A+,2D	If under 35 years or STI risk, refer to GUM. <sup>1A+,2D</sup> ciprofloxacin <sup>1A+,2D</sup>	ciprofloxacin <sup>1A+,2D</sup>	500mg BD <sup>1A+,2D,3A+</sup>	-	10 days <sup>1A+,2D,3A+</sup>	evidence and rationales on the PHE website

Infontion	Key points	Medicine	Doses		Longth	Visual			
Infection		Wedicine	Adult	Child	Length	summary			
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 <sup>4A+,11A-,12A+</sup>	100mg BD <sup>4A+,11A-</sup> ,12A+		7 days <sup>4A+,11A-,12A+</sup>				
ureumus	If positive, treat index case, refer to GUM and initiate partner notification, testing and treatment. <sup>2D,3A+</sup>	Second line/ pregnant/breastfeeding/ allergy/intolerance:	1000mg <sup>4A+,11A-,12A+</sup> then 500mg OD <sup>4A+,11A-</sup>		Stat <sup>4A+,11A-,12A+</sup> 2 days <sup>4A+,11A-,12A+</sup>				
Public Health 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>	azithromycin <sup>4A+,11A-,12A+</sup>	,12A+		(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). 3A+,4A+					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 PHE website			
	Second line, pregnant, breastfeeding, allergy, or intolerance: azithromycin is most effective. 6A+,7D,8A+,9A+,10D As lower cure rate in pregnancy, test for cure at least 3 weeks after end of treatment. 3A+								
	Consider referring all patients with symptomatic urethritis to GUM 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	Key points	Medicine	Doses		Longth	Visual
intection	• •		Adult	Child	Length	summary
Vaginal	All topical and oral azoles give over 80%	Clotrimazole <sup>1A+,5D</sup> <b>OR</b>	500mg pessary <sup>1A+</sup>		Stat <sup>1A+</sup>	
candidiasis	cure. <sup>1A+,2A+</sup>	fenticonazole <sup>1A+</sup> <b>OR</b>	600mg pessary <sup>1A+</sup>	_	Stat <sup>1A+</sup>	Not somitable
D 11: 11 111	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+	clotrimazole <sup>1A+</sup> <b>OR</b>	100mg pessary <sup>1A+</sup>		6 nights <sup>1A+</sup>	Not available. Access
		oral fluconazole <sup>1A+,3D</sup>	150mg <sup>1A+,3D</sup>		Stat <sup>1A+</sup>	supporting
Last updated: Oct 2018		If recurrent: fluconazole (induction/maintenance) <sup>1A+</sup>	150mg every 72 hours THEN 150mg once a	-	3 doses 6 months <sup>1A+</sup>	evidence and rationales on the PHE website
			week <sup>1A+,3D</sup>			
Bacterial vaginosis	Oral metronidazole is as effective as topical treatment, 1A+ and is cheaper.2D	oral metronidazole <sup>1A+,3A+</sup> <b>OR</b>	400mg BD <sup>1A+,3A+</sup> <b>OR</b>		7 days <sup>1A+</sup> <b>OR</b>	Not available.
	7 days results in fewer relapses than 2g stat at 4 weeks. 1A+,2D  Pregnant/breastfeeding: avoid 2g dose. 3A+,4D  Treating partners does not reduce relapse. 5A+		2000mg <sup>1A+,2D</sup>		Stat <sup>2D</sup>	Access supporting
Public Health England		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> r	evidence and rationales on the PHE website
Last updated: Nov 2017		clindamycin 2% cream <sup>1A+,2D</sup>	5g applicator at night <sup>1A+,2D</sup>			
Genital herpes	<b>dvise</b> : 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 days¹A+		
Public Health	topical lidocaine for pain, <sup>1A+</sup> and discuss transmission. <sup>1A+</sup>	OR	800mg TDS (if recurrent) <sup>1A+</sup>		2 days <sup>1A+</sup>	Not available. Access
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>	supporting
	or systemic symptoms, 1A+,2D and refer to GUM.2D	famciclovir <sup>1A+,4A+</sup>	250mg TD <sup>1A+</sup>	-	5 days <sup>1A+</sup>	evidence and rationales on
Last updated: Nov 2017	<b>Recurrent</b> : self-care if mild, <sup>2D</sup> or immediate short course antiviral treatment, <sup>1A+,2D</sup> or suppressive therapy if more than 6 episodes per year. <sup>1A+,2D</sup>	mediate <sup>2D</sup> or	1000mg BD (if recurrent) <sup>1A+</sup>		1 day <sup>1A+</sup>	the <u>PHE</u> <u>website</u>
Gonorrhoea	Antibiotic resistance is now very high. 1D,2D	ceftriaxone <sup>2D</sup> <b>OR</b>	1000mg IM <sup>2D</sup>			
Public Health England	Use IM ceftriaxone if susceptibility not known prior to treatment <sup>2D</sup> .				Stat <sup>2D</sup>	Not available. Access supporting evidence and rationales on the PHE website
Last updated: Feb 2019	Use Ciprofloxacin <b>only</b> If susceptibility is known prior to treatment and the isolate is sensitive to ciprofloxacin at all sites of infection <sup>1D,2D</sup> Refer to GUM. <sup>3B-</sup> Test of cure is essential. <sup>2D</sup>	ciprofloxacin <sup>2D</sup> (only if known to be sensitive)	500mg <sup>2D</sup>	-	Stat <sup>2D</sup>	

Infantion	Vay nainta	Madiaina	Doses		I a sa aséla	Visual
Infection	Key points	Medicine	Adult	Child	Length	summary
Trichomoniasis	Oral treatment needed as extravaginal infection	metronidazole <sup>1A+,2A+,3D,6A+</sup>	400mg BD <sup>1A+,6A+</sup>		5 to 7 day <sup>1A+</sup>	Not available.
Public Health	common. <sup>1D</sup> Treat partners, <sup>1D</sup> and refer to GUM for other		2g (more adverse effects) <sup>6A+</sup>		Stat <sup>1A+,6A+</sup>	Access supporting evidence and rationales on the PHE website
England  Last updated: Nov 2017	STIs. <sup>1D</sup> <b>Pregnant/breastfeeding</b> : avoid 2g single dose metronidazole; <sup>2A+,3D</sup> clotrimazole for symptom relief (not cure) if metronidazole declined. <sup>2A+,4A-,5D</sup>	Pregnancy to treat symptoms: clotrimazole <sup>2A+,4A-,5D</sup>	100mg pessary at night <sup>5D</sup>	-	6 nights <sup>5D</sup>	
Pelvic inflammatory	Refer women and sexual contacts to GUM.¹A+ 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	sease cells in HVS smear good negative predictive	metronidazole <sup>1A+,5A+</sup> <b>PLUS</b>	400mg BD <sup>1A+</sup>	-	14 days <sup>1A+</sup>	
	value.1A+	doxycycline <sup>1A+,5A+</sup>	100mg BD <sup>1A+</sup>	-	14 days <sup>1A+</sup>	Not available.
Public Health		Second line therapy: metronidazole <sup>1A+,5A+</sup> PLUS	400mg BD <sup>1A+</sup>	  -	14 days <sup>1A+</sup>	Access supporting evidence and
England	Moxifloxacin has greater activity against likely pathogens, but always test for gonorrhoea,	ofloxacin <sup>1A+,2A-,5A+</sup> <b>OR</b>	400mg BD <sup>1A+,2A-</sup>		14 days <sup>1A+</sup>	rationales on the <u>PHE</u> <u>website</u>
Last updated:	chlamydia, and <i>M. genitalium</i> . <sup>1A+</sup>	moxifloxacin alone <sup>1A+</sup>	400mg OD <sup>1A+</sup>	-		
Feb 2019	If M. genitalium tests positive use moxifloxacin. 1A+	(first line for <i>M. genitalium</i> associated PID)			14 days <sup>1A+</sup>	
▼ Skin and s	oft tissue infections		<u>'</u>			
Note: Refer to RCC	<u>GP Skin Infections</u> online training. <sup>1D</sup> For MRSA, discuss to	herapy with microbiologist.1D				
Cold sores	Most resolve after 5 days without treatment.1A	<sup>-,2A-</sup> Topical antivirals applied p	prodromally can reduc	e duratior	n by 12 to 18 hours.	1A-,2A-,3A-
Public Health England Last updated:	If frequent, severe, and predictable triggers: conductable trigger		aciclovir 400mg, twice	e daily, for	<sup>-</sup> 5 to 7 days. <sup>5A+,6A+</sup>	
Nov 2017 <b>PVL-SA</b>	Panton-Valentine leukocidin (PVL) is a toxin prod	used by 20.9 to 46% of C. aur	oue from boile/obsess	000 1B+ 2B	+ 3B- DV/L atrains are	rara in haalthy
PVL-SA Public Health	people, but severe. <sup>2B+</sup>	uceu by 20.0 to 40% of 3. aur	eus itotti bolis/absces	5 <del>C</del> S. 151,25	PVL Strains are	rare in nealthy
England	Suppression therapy should only be started after Risk factors for PVL: recurrent skin infections; <sup>28</sup>					e community <sup>2B+,3B-</sup>
Last updated: Nov 2017	(school children; <sup>3B-</sup> military personnel; <sup>3B-</sup> nursing haccess the supporting evidence and rationales or	nome residents; <sup>3B-</sup> household o				

Infection	Voy points	Medicine	Doses		Longth	Visual
mection	Key points	Wiedicine	Adult	Child	Length	summary
Eczema (bacterial	Manage underlying eczema and flares with treatments such as emollients and topical	If not systemically unwell, antibiotic				
infection)	corticosteroids, whether antibiotics are given or not.	Topical antibiotic (if a topi only:	ical is appropriate). I	For locali	sed infections	
NICE	Symptoms and signs of secondary bacterial infection can include: weeping, pustules, crusts, no response to treatment, rapidly worsening eczema, fever and malaise.	First choice: fusidic acid 2%	TDS	The state of the s	5 to 7 days	
		Oral antibiotic:				
Public Health	Not all flares are caused by a bacterial infection, so will not respond to antibiotics.	First choice: flucloxacillin	500mg QDS			
England	Eczema is often colonised with bacteria but may not be clinically infected.	Penicillin allergy or	250mg BD (can be			
	Do not routinely take a skin swab.	clarithromycin <b>OR</b>	increased to 500mg BD for	Management of the control of the con	5 to 7 days	security to the directive contains at the citing securing. MEXICOLOGY.
Last updated: Mar 2021	Not systemically unwell:		severe infections)		o to r days	Commence of the commence of th
Widi 2021	Do not routinely offer either a topical or oral antibiotic.	erythromycin (if macrolide needed in pregnancy;	250mg to 500mg QDS			Section 1.
	If an antibiotic is offered, when choosing	consider benefit/harm)				
	between a topical or oral antibiotic, take account of patient preferences, extent and severity of symptoms or signs, possible adverse effects, and previous use of topical antibiotics because antimicrobial resistance can develop rapidly with extended or repeated use.					
	Systemically unwell:	If MRSA suspected or con	firmed – consult loc	al microk	oiologist	
	Offer an oral antibiotic.					
	If there are symptoms or signs of cellulitis, see cellulitis and erysipelas.					
	For detailed information click on the visual summary.					

Voy points	Madiaina	Doses		l avantla	Visual
key points	Medicine	Adult	Child	Length	summary
Localised non-bullous impetigo:	Topical antiseptic:		Tong a Walandina Ng.		
antiseptics are available but no evidence for	hydrogen peroxide 1%	BD or TDS	Part of the second seco	5 days*	
impetigo).	Topical antibiotic:	1	1		
If hydrogen peroxide unsuitable or ineffective, short-course topical antibiotic.	First choice: fusidic acid 2%	TDS			
Widespread non-bullous impetigo:	Fusidic acid resistance	TDS	3204 B. (1)	5 days*	
Short-course topical or oral antibiotic.	suspected or confirmed:		Salation of Balance		
Take account of person's preferences,	<u>'</u>				
	Oral antibiotic:				Impetige antimicrobial prescribing NCC assets.
resistance can develop rapidly with extended or	First choice: flucloxacillin	500mg QDS			The property of the property o
data.	Penicillin allergy or	250mg BD			Many r - Mary and a second sec
Bullous impetigo, systemically unwell, or high risk of complications:	clarithromycin <b>OR</b>			5 days*	
Short-course oral antibiotic.		_			
Do not offer combination treatment with a topical and oral antibiotic to treat impetigo.	consider benefit/harm)	QDS			_
*5 days is appropriate for most, can be increased to 7 days based on clinical judgement.	If MRSA suspected or con	firmed – consult lo	cal microl	piologist	
For detailed information click on the visual summary.	·			· ·	
S. aureus is the most common infecting	flucloxacillin <sup>2D</sup>	500mg QDS <sup>2D</sup>			Not available.
breast; <sup>2D</sup> fever and/or general malaise; <sup>2D</sup> a	Penicillin allergy: erythromycin <sup>2D</sup> OR	250mg to 500mg QDS <sup>2D</sup>			Access supporting
•	clarithromycin <sup>2D</sup>	500mg BD <sup>2D</sup>	-	10 to 14 days <sup>2D</sup>	evidence and rationales on
where indicated. <sup>2D,3A+</sup> Women should continue					the <u>PHE</u> <u>website</u>
	Hydrogen peroxide 1% cream (other topical antiseptics are available but no evidence for impetigo).  If hydrogen peroxide unsuitable or ineffective, short-course topical antibiotic.  Widespread non-bullous impetigo: Short-course topical or oral antibiotic.  Take account of person's preferences, practicalities of administration, previous use of topical antibiotics because antimicrobial resistance can develop rapidly with extended or repeated use, and local antimicrobial resistance data.  Bullous impetigo, systemically unwell, or high risk of complications: Short-course oral antibiotic.  Do not offer combination treatment with a topical and oral antibiotic to treat impetigo.  *5 days is appropriate for most, can be increased to 7 days based on clinical judgement. For detailed information click on the visual summary.  S. aureus is the most common infecting pathogen. 1D Suspect if woman has: a painful breast; 2D fever and/or general malaise; 2D a tender, red breast. 2D  Breastfeeding: oral antibiotics are appropriate,	Localised non-bullous impetigo: Hydrogen peroxide 1% cream (other topical antiseptics are available but no evidence for impetigo).  If hydrogen peroxide unsuitable or ineffective, short-course topical antibiotic.  Widespread non-bullous impetigo: Short-course topical or oral antibiotic.  Take account of person's preferences, practicalities of administration, previous use of topical antibiotics because antimicrobial resistance can develop rapidly with extended or repeated use, and local antimicrobial resistance data.  Bullous impetigo, systemically unwell, or high risk of complications: Short-course oral antibiotic. Do not offer combination treatment with a topical and oral antibiotic to treat impetigo.  *5 days is appropriate for most, can be increased to 7 days based on clinical judgement. For detailed information click on the visual summary.  S. aureus is the most common infecting pathogen. ¹¹º Suspect if woman has: a painful breast;²¹º fever and/or general malaise;²¹º a tender, red breast.²¹º  Breastfeeding: oral antibiotics are appropriate, where indicated.²²º, shydrogen peroxide 1%  Topical antiseptic: hydrogen peroxide 1%  Topical antibiotic:    hydrogen peroxide 1%   fusicic acid 2°   Fusidic	Localised non-bullous impetigo: Hydrogen peroxide 1% cream (other topical antiseptics are available but no evidence for impetigo).  If hydrogen peroxide unsuitable or ineffective, short-course topical antibiotic. Widespread non-bullous impetigo: Short-course topical or oral antibiotic. Take account of person's preferences, practicalities of administration, previous use of topical antibiotics because antimicrobial resistance can develop rapidly with extended or repeated use, and local antimicrobial resistance data.  Bullous impetigo, systemically unwell, or high risk of complications: Short-course oral antibiotic. Do not offer combination treatment with a topical and oral antibiotic to treat impetigo.  *5 days is appropriate for most, can be increased to 7 days based on clinical judgement. For detailed information click on the visual summary.  S. aureus is the most common infecting pathogen.¹¹D Suspect if woman has: a painful breast; 20 fever and/or general malaise; 20 a tender, red breast. 20  Breastfeeding: oral antibiotics are appropriate, where indicated. 2D.3A+ Women should continue	Localised non-bullous impetigo: Hydrogen peroxide 1% cream (other topical antiseptics are available but no evidence for impetigo).  If hydrogen peroxide unsuitable or ineffective, short-course topical antibiotic.  Widespread non-bullous impetigo: Short-course topical or oral antibiotic.  Take account of person's preferences, practicalities of administration, previous use of topical antibiotics because antimicrobial resistance can develop rapidly with extended or repeated use, and local antimicrobial resistance data.  Bullous impetigo, systemically unwell, or high risk of complications: Short-course oral antibiotic. Do not offer combination treatment with a topical and oral antibiotic to treat impetigo. Topical antibiotic: First choice: fusidic acid 2% Fusidic acid 28% Fusidic acid resistance or offirmed: mupirocin 2%  Oral antibiotic: First choice: fusidic acid 2% Fusidic acid resistance or offirmed: mupirocin 2%  Oral antibiotic: First choice: fusidic acid 2% Fusidic acid 2% Fusidic acid 2%  Fusid acid resistance  fusidic acid 2%  Fusidic acid 2%  Fusidic acid	Localised non-bullous impetigo: Hydrogen peroxide 1% cream (other topical antiseptics are available but no evidence for impetigo). If hydrogen peroxide unsuitable or ineffective, short-course topical antibiotic. Widespread non-bullous impetigo: Short-course topical or oral antibiotic. Take account of person's preferences, practicalities of administration, previous use of topical antibiotics because antimicrobial resistance data.  Bullous impetigo, systemically unwell, or high risk of complications: Short-course oral antibiotic. Do not offer combination treatment with a topical and and antibiotic to treat impetigo.  "5 days is appropriate for most, can be increased to 7 days based on clinical judgement. For detailed information click on the visual summary.  S. aureus is the most common infecting pathogen. 10 Suspect if woman has: a painful breast; 20 fever and/or general malaise; 20 a tender, red breast; 20 Ever and/or general malaise; 20 a tender, r

Infaction	Kov points	Madiaina	Doses		Longith	Visual
Infection	Key points	Medicine	Adult	Child	Length	summary
Tick bites (Lyme	<b>Treatment</b> : Treat erythema migrans empirically; serology is often negative early in	Treatment: doxycycline <sup>1D</sup>	100mg BD <sup>1D</sup>	BNF for children		Not available. Access
disease) Public Health England Last updated: Feb 2020	plic Health gland For other suspected Lyme disease such as neuroborreliosis (CN palsy, radiculopathy) seek	Alternative: amoxicillin <sup>1D</sup>	1,000mg TDS <sup>1D</sup>	BNF for children	21 days¹ <sup>D</sup>	supporting evidence and rationales on the PHE website
Scabies	<b>First choice permethrin</b> : Treat whole body from ear/chin downwards, 1D,2D and under	permethrin <sup>1D,2D,3A+</sup>	5% cream <sup>1D,2D</sup>	BNF for children		Not available.
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 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>	Access supporting evidence and rationales on the PHE website
1	Home/sexual contacts: treat within 24 hours. <sup>1D</sup>					
Insect bites and stings	Most insect bites or stings will not need antibiotics.					Note the privilege state of the construction o
Public Health England Last updated: Sep 2020	Do not offer an antibiotic if there are no symptoms or signs of infection.  If there are symptoms or signs of infection, see cellulitis and erysipelas.	-	-	-	-	The state of the s
Leg ulcer	Manage any underlying conditions to promote	First-choice:		-1		
infection	ulcer healing.	flucloxacillin	500mg to 1g QDS	-	7 days	
	Only offer an antibiotic when there are	Penicillin allergy or if fluc		<b>)</b> :	•	
NICE	symptoms or signs of infection (such as redness or swelling spreading beyond the ulcer, localised warmth, increased pain or fever). Few leg ulcers are clinically infected but most are colonised by	doxycycline <b>OR</b>	200mg on day 1, then 100mg OD (can be increased to 200mg daily)			The physical activities are proposed to the physical activities and physical activities are proposed to the physical activities and physical activities are proposed to the physical activities are proposed t
Public Health	bacteria.	clarithromycin <b>OR</b>	500mg BD	-	7 days	The second secon
England	When prescribing antibiotics, take account of severity, risk of complications and previous antibiotic use.	erythromycin (if macrolide needed in pregnancy; consider benefit/harm)	500mg QDS			September 1998
Last updated:	For detailed information click on the visual	Second choice:				
Feb 2020	summary.	co-amoxiclav <b>OR</b>	500/125mg TDS			
		co-trimoxazole (in penicillin allergy)	960mg BD	-	7 days	
		For antibiotic choices if se		RSA susp	ected or	
		confirmed, click on the vis				

Infection	Key points	Medicine	Doses		Length	Visual
miection	Rey points		Adult	Child	Lengin	summary
Cellulitis and	Exclude other causes of skin redness	First choice:				
erysipelas	(inflammatory reactions or non-infectious causes).	flucloxacillin	500mg to 1g QDS		5 to 7 days*	
	Consider marking extent of infection with a	Penicillin allergy or if fluc	loxacillin unsuitable:			
	single-use surgical marker pen.	clarithromycin <b>OR</b>	500mg BD	_		
NICE	Offer an antibiotic. Take account of severity, site of infection, risk of uncommon pathogens, any	erythromycin (if macrolide needed in pregnancy; consider benefit/harm) <b>OR</b>	500mg QDS	Particular Control of the Control of		
Public Health	microbiological results and MRSA status.  Infection around eyes or nose is more	doxycycline (adults only) OR	200mg on day 1, then 100mg OD	-	5 to 7 days*	Orbital enforce of the entire confidence or the MEC consistence of the second of the second or the s
England	concerning because of serious intracranial complications.	co-amoxiclav (children only: not in penicillin	-	Machine and a second		The state of the s
	*A longer course (up to 14 days in total) may be	allergy)		Name Alle State		Contraction     Contracti
Last updated:	needed but skin takes time to return to normal,	If infection near eyes or no	ose:			
Sept 2019	and full resolution at 5 to 7 days is not expected.  Do not routinely offer antibiotics to prevent	co-amoxiclav	500/125mg TDS	Control of the contro	7 days*	
	recurrent cellulitis or erysipelas.	If infection near eyes or no	ose (penicillin allerg	y):	1	
	For detailed information click on the visual	clarithromycin AND	500mg BD			
	summary.	metronidazole (only add in children if anaerobes	400mg TDS	The second secon	7 days*	
		suspected)				
	For alternative choice antibiotics for severe infection, suspected or confirmed MRSA infection and IV antibiotics click on the visual summa					

Infection	Key points	Medicine	Doses		Longth	Visual
IIIIection	Key points	Medicine	Adult	Child	Length	summary
Diabetic foot	In diabetes, all foot wounds are likely to be	Mild infection: first choice	)			
infection	colonised with bacteria. Diabetic foot infection	flucloxacillin	500mg to 1g QDS	-	7 days*	
	has at least 2 of: local swelling or induration; erythema; local tenderness or pain; local	Mild infection (penicillin a	llergy):	•		
	warmth; purulent discharge.	clarithromycin <b>OR</b>	500mg BD			
NICE	Severity is classified as:	erythromycin (if macrolide	500mg QDS			
14.52	Mild: local infection with 0.5 to less than 2cm erythema	needed in pregnancy; consider benefit/harm) <b>OR</b>		_	7 days*	
Public Health England Last updated:	Moderate: local infection with more than 2cm erythema or involving deeper structures (such as abscess, osteomyelitis, septic arthritis or fasciitis)	doxycycline	200mg on day 1, then 100mg OD (can be increased to 200mg daily)		, adjo	
Oct 2019	<b>Severe</b> : local infection with signs of a systemic inflammatory response.	For antibiotic choices for Pseudomonas aeruginosa	Dides for Marin wire independing MCI Shirts .			
	Start antibiotic treatment as soon as possible.	antibiotics click on the vis		Total control of the		
	Take samples for microbiological testing before, or as close as possible to, the start of treatment					The state of the s
	When choosing an antibiotic, take account of severity, risk of complications, previous microbiological results and antibiotic use, and patient preference.					
	*A longer course (up to a further 7 days) may be needed based on clinical assessment. However, skin does take time to return to normal, and full resolution at 7 days is not expected.					
	Do not offer antibiotics to prevent diabetic foot infection.					
	For detailed information click on the visual summary.					

Infection	Key points	Medicine	Doses		Length	Visual
IIIIection	Key points	Wiedicine	Adult	Child	Lengui	summary
Acne vulgaris	First-line treatment options: offer a course of 1 of the options, taking account of severity, preferences, and advantages/disadvantages of each option. Completing the course is important because positive effects can take 6 to 8 weeks. Consider topical benzoyl peroxide monotherapy as an alternative if first-line treatment options	First line: fixed combination of topical adapalene with topical benzoyl peroxide (for any acne severity, not in under 9s) OR	0.1% adapalene/ 2.5% benzoyl peroxide <b>OR</b> 0.3% adapalene/2.5% benzoyl peroxide OD (thinly evening)	BNF for children		
Last updated: Jun 2021	are contraindicated, or to avoid topical retinoids or an antibiotic (topical or oral). <b>Do not use</b> : monotherapy with a topical antibiotic, monotherapy with an oral antibiotic, or a combination of a topical antibiotic and an oral	fixed combination of topical tretinoin with topical clindamycin (for any acne severity, not in under 12s) OR	0.025% tretinoin/ 1% clindamycin OD (thinly in the evening)	BNF for children		
	antibiotic.  Review first-line treatment at 12 weeks.  Only continue a topical or oral antibiotic for more than 6 months in exceptional circumstances.  Review at 3 monthly intervals, and stop the antibiotic as soon as possible.  For detailed information see the NICE guideline on	fixed combination of topical benzoyl peroxide with topical clindamycin (for mild to moderate acne, not in under 12s) <b>OR</b>	3% benzoyl peroxide/1% clindamycin <b>OR</b> 5% benzoyl peroxide/1% clindamycin OD (in the evening)	BNF for children	12 weeks	Not available. See the <u>NICE</u> <u>guideline on</u> acne vulgaris.
	acne vulgaris.	fixed combination of topical adapalene with topical benzoyl peroxide AND either oral lymecycline or oral doxycycline (for moderate to severe acne, not in under 12s) OR	0.1% adapalene/ 2.5% benzoyl peroxide <b>OR</b> 0.3% adapalene/2.5% benzoyl peroxide OD (in the evening) <b>AND</b>	BNF for children		
			lymecycline 408mg OD OR doxycycline 100mg OD	BNF for children		

Infaction	Voy points	Madiaina	Doses		l a sa artha	Visual
Infection	Key points	Medicine	Adult	Child	Length	summary
		topical azelaic acid <b>AND</b> either oral lymecycline or oral doxycycline (for	15% or 20% azelaic acid BD AND	BNF for children		
		moderate to severe acne, not in under 12s)	lymecycline 408mg OD <b>OR</b>	BNF		
			doxycycline 100mg OD	for children		
		Alternative: topical benzoyl peroxide	5% benzoyl peroxide OD to BD	BNF for children		
Dermatophyte infection: skin	Most cases: use terbinafine as fungicidal, treatment time shorter and more effective than with fungistatic imidazoles or	topical terbinafine <sup>3A+,4D</sup> <b>OR</b>	1% OD to BD <sup>2A+</sup>	BMF for children	1 to 4 weeks <sup>3A+</sup>	Not available.
Public Health England	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		Access supporting evidence and
Last updated: Feb 2019	If intractable, or scalp: send skin scrapings, 1D and if infection confirmed: use oral terbinafine 1D, 3A+, 4D or itraconazole. 2A+, 3A+, 5D	Alternative in athlete's foot: topical undecenoates2A+ (such as Mycota®)2A+	OD to BD <sup>2A+</sup>	BNF for children	4 to 6 weeks <sup>2A+,3A+</sup>	rationales on the <u>PHE</u> <u>website</u>
	<b>Scalp</b> : oral therapy, <sup>6D</sup> and discuss with specialist. <sup>1D</sup>	,				
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>	BMF for children	Fingers: 6 weeks <sup>1D,6D</sup> Toes: 12 weeks <sup>1D,6D</sup>	Not available. Access
Public Health England	candida of non-dermatophyte infection is confirmed, use oral itraconazole. 1D,3A+,4D Topical nail lacquer is not as effective. 1D,5A+,6D	Second line: itraconazole <sup>1D,3A+,4D,6D</sup>	200mg BD <sup>1D,4D</sup>	BNF for children	1 week a month <sup>1D</sup> Fingers:	supporting evidence and rationales on
Last updated: Oct 2018	To prevent recurrence: apply weekly 1% topical antifungal cream to entire toe area. 6D				2 courses <sup>1D</sup> Toes: 3 courses <sup>1D</sup>	the <u>PHE</u> <u>website</u>
30.2010	Children: seek specialist advice.4D	Stop treatment when continu	ual, new, healthy, prox	imal nail	growth. <sup>6D</sup>	

Infection	Key points	Medicine	Doses Adult	Child	Length	Visual summary
Human and	Offer an antibiotic for a human or animal bite if	First choice:	Addit	Office		Sammary
animal bites	there are symptoms or signs of infection, such as increased pain, inflammation, fever, discharge or an unpleasant smell. Take a swab for microbiological testing if there is discharge (purulent or non-purulent) from the wound.	co-amoxiclav	250/125mg or 500/125mg TDS		3 days for prophylaxis 5 days for treatment*	
	Do not offer antibiotic prophylaxis if a human or animal bite has not broken the skin.	Penicillin allergy or co-am doxycycline AND	200mg on day 1,			
Public Health England	Human bite:		then 100mg or 200mg daily	Rayer free chaps Both Comments of the Comments	3 days for prophylaxis	
Lingiana	Offer antibiotic prophylaxis if the human bite has broken the skin and drawn blood.	metronidazole	400mg TDS	Marie and an	5 days for treatment*	
	Consider antibiotic prophylaxis if the human bite	seek specialist advice in p				
Last updated: Nov 2020	has broken the skin but not drawn blood if it is in a high-risk area or person at high risk.	IV antibiotics (click on visu	al summary)			
	Cat bite:					
	Offer antibiotic prophylaxis if the cat bite has broken the skin and drawn blood.					And the state of t
	Consider antibiotic prophylaxis if the cat bite has broken the skin but not drawn blood if the wound could be deep.					A second
	Dog or other traditional pet bite (excluding cat bite)					
	Do not offer antibiotic prophylaxis if the bite has broken the skin but not drawn blood.					
	Offer antibiotic prophylaxis if the bite has broken the skin and drawn blood if it has caused considerable, deep tissue damage or is visibly contaminated (for example, with dirt or a tooth).					
	Consider antibiotic prophylaxis if the bite has broken the skin and drawn blood if it is in a highrisk area or person at high risk.					
	*course length can be increased to 7 days (with review) based on clinical assessment of the wound.					

Infection	Key points	Medicine	Doses		Longth	Visual
intection	Key points	Wealcine	Adult	Child	Length	summary
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:	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	>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> Give paracetamol for pain relief. <sup>6C</sup> Shingles: treat if >50 years <sup>7A+,8D</sup> (PHN rare if	Second line for shingles if poor compliance: not for children: famciclovir8D,14A-, 16A- 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> website
Last updated: Oct 2018	Shingles treatment if not within 72 hours: consider starting antiviral drug up to 1 week after rash onset, 12B+ if high risk of severe shingles 12B+ or continued vesicle formation; 4D older age; 7A+,8D,12B+ immunocompromised; 4D or severe pain. 7D,11B+			BMF 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. <sup>1D</sup> Treat only if severe, <sup>2A+</sup> as most cases are	Second line: chloramphenicol <sup>1D,2A+,4A-</sup> ,5A+ 0.5% eye drop <sup>1D,2A+</sup>	Eye drops: 2 hourly for 2 days, <sup>1D,2A+</sup> then reduce			
Public Health England Last updated: July 2019	viral <sup>3D</sup> or self-limiting. <sup>2A+</sup> <b>Bacterial conjunctivitis</b> : usually unilateral and also self-limiting. <sup>2A+,3D</sup> It is characterised by red eye with mucopurulent, not watery discharge. <sup>3D</sup> 65% and 74% resolve on placebo by days 5 and 7. <sup>4A-,5A+</sup> <b>Third line</b> : fusidic acid as it has less Gram-negative activity. <sup>6A-,7D</sup>	OR 1% ointment <sup>1D,5A+</sup>	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 PHE website
		Third line: fusidic acid 1% gel <sup>2A+,5A+,6A-</sup>	BD <sup>1D,7D</sup>	BNF for children		

Infection	Key points	Medicine	Doses		Longth	Visual
IIIIection		Wedicine	Adult	Child	Length	summary
Blepharitis 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  Last updated:	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
Nov 2017	Signs of meibomian gland dysfunction, <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 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

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

Infection	Key points	Medicine	Doses		Longth	Visual
mection			Adult	Child	Length	summary
Pericoronitis	Refer to dentist for irrigation and debridement. <sup>1D</sup> If persistent swelling or systemic symptoms, <sup>1D</sup>	metronidazole <sup>1D,2A+,3B+</sup> <b>OR</b>	400mg TDS <sup>1D</sup>	BNF for children	3 days <sup>1D,2A+</sup>	
D. I. I. III	use metronidazole <sup>1D,2A+,3B+</sup> or amoxicillin. <sup>1D,3B+</sup> Use antiseptic mouthwash if pain and trismus	amoxicillin <sup>1D,3B+</sup>	500mg TDS <sup>1D</sup>	BNF for children	3 days¹D	Not available. Access
Public Health England	limit oral hygiene. <sup>1D</sup>	chlorhexidine 0.2% (do not use within 30 minutes of toothpaste) <sup>1D</sup> <b>OR</b>	1 minute BD with 10ml <sup>1D</sup>	BNF for children	Until less pain	supporting evidence and rationales on the PHE website
Last updated: Nov 2017		hydrogen peroxide 6% <sup>1D</sup>	2 to 3 minutes BD/TDS with 15ml in ½ glass warm water <sup>1D</sup>	BNF for children	allows for oral hygiene <sup>1D</sup>	
Dental abscess Public Health England	Regular analgesia should be the first option 1A+ und abscesses are not appropriate. 1A+,4A+ Repeated at Antibiotics are only recommended if there are sign with severe odontogenic infections (cellulitis, 1A+,3A referred urgently for hospital admission to protect cephalosporins, 6D co-amoxiclav, 6D clarithromycin, used if there is no response to first-line drugs. 6D	ntibiotics alone, without drainants of severe infection, 3A+ systest plus signs of sepsis;3A+,4A+ diairway,6D for surgical drainag	ige, are ineffective in permic symptoms, 1A+,2B-, emic symptoms, 1A+,2B-, ifficulty in swallowing; ge3A+ and for IV antib	oreventing <sup>4A+</sup> or a hi <sup>BD</sup> impend biotics. <sup>3A+</sup>	g the spread of infection gh risk of complication ing airway obstruction The empirical use of	on. <sup>1A+,5C</sup> ns. <sup>1A+</sup> Patients n)6D should be
	If pus is present, refer for drainage, 1A+,2B- tooth extraction, 2B- or root canal.2B-	amoxicillin <sup>6D,8B+,9C,10B+</sup> <b>OR</b>	500mg to 1000mg TDS <sup>6D</sup>	BNF for children		Not available.
Last updated: Oct 2018	Send pus for investigation. <sup>1A+</sup> If spreading infection <sup>1A+</sup> (lymph node	phenoxymethylpenicillin <sup>11B</sup> -	500mg to 1000mg QDS <sup>6D</sup>	BNF for children	Up to 5 days;	Access supporting
	involvement <sup>1A+,4A+</sup> or systemic signs, <sup>1A+,2B-,4A+</sup> that is, fever <sup>1A+</sup> or malaise) <sup>4A+</sup> ADD	metronidazole <sup>6D,8B+,9C</sup>	400mg TDS <sup>6D</sup>	BNF for children	<sup>6D,10B+</sup> review at 3 days <sup>9C,10B+</sup>	evidence and rationales on
	metronidazole. 6D,7B+  Use clarithromycin in true penicillin allergy and, if severe, refer to hospital. 3A+,6D	Penicillin allergy: clarithromycin <sup>6D</sup>	500mg BD <sup>6D</sup>	BNF for children		the 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.