

Infection – Management and Treatment in Primary Care (Antimicrobial guidelines)

Croydon

Based on NICE & UKHSA (formerly PHE) guidance, and locally adapted for use in Croydon

Aims

- To support non-medical prescribers and GPs in making appropriate decisions about antimicrobial prescribing.
- 2. To promote the safe, effective and economic use of antibiotics.
- 3. To minimise the emergence of bacterial resistance and risk of Clostridioides difficile (formerly Clostridium difficile) in the community.

Principles of Treatment:

- 1. This guidance is based on the best available evidence but professional judgement and involve patients in management decisions.
- 2. This guidance should not be used in isolation; it should be supported with patient information about safety netting, back-up antibiotics, self-care, infection severity and usual duration, clinical staff education, and audits. Materials are available on the RCGP TARGET website.
- 3. Prescribe an antibiotic only when there is likely to be clear clinical benefit, giving alternative, non-antibiotic self-care advice, where appropriate.
- 4. If person is systemically unwell with symptoms or signs of serious illness, or is at high risk of complications: give immediate antibiotic. Always consider possibility of sepsis, and refer to hospital if severe systemic infection.
- 5. Use a lower threshold for antibiotics in immunocompromised, or in those with multiple morbidities; consider culture/specimens, and seek advice.
- 6. In severe infection, or immunocompromised, it is important to initiate antibiotics as soon as possible, particularly if sepsis is suspected. If patient is not at moderate to high risk for sepsis, give information about symptom monitoring, and how to access medical care if they are concerned.
- 7. Where an empirical therapy has failed or special circumstances exist, microbiological advice can be obtained from **Consultant Microbiologist**, Croydon University Hospital (CUH) **T: 020 8401 3421/3383** (9am-5pm). For the out-of-hour service, please contact CUH switchboard on 020 8401 3000.
- 8. Limit prescribing over the telephone to exceptional cases.
- 9. Use simple, generic antibiotics if possible. Avoid broad spectrum antibiotics (for example co-amoxiclav, quinolones and cephalosporins) when narrow spectrum antibiotics remain effective, as they increase the risk of *Clostridiodes difficile*, MRSA and resistant UTIs
- 10. Avoid widespread use of topical antibiotics, especially in those agents also available systemically (for example fusidic acid); in most cases, topical use should be limited.
- 11. Always check for antibiotic allergies. Clearly document allergies on the clinical system and where possible a description of the reaction.
- 12. Avoid cephalosporins where possible in patient > 65 years.
- 13. A dose and duration of treatment for adults is usually suggested, but may need modification for age, weight and renal function. Child doses are provided when appropriate and can be accessed through the severe or recurrent cases consider a larger dose or longer course. Please refer to BNF for further dosing and interaction information (e.g. interaction between macrolides and statins) if needed and check for hypersensitivity.
- 14. Avoid use of quinolones unless benefits outweigh the risk as new 2018 evidence indicates that they may be rarely associated with long lasting disabling neuro-muscular and skeletal side effects.
- 15. Take microbiological specimens to inform treatment where appropriate and possible.
- 16. In pregnancy where possible avoid tetracyclines, aminoglycosides, quinolones, high dose metronidazole (2 g) unless benefit outweighs risks.
- 17. Refer to the BNF for further dosing and interaction information (for example the interaction between macrolides and statins), and check for hypersensitivity. In most cases when a short course of macrolide is prescribed concurrently with statins, the statin therapy should be withheld for the duration of the course of treatment. If concurrent administration is unavoidable, then a lower dose of statin should be considered.
- Cross-sensitivity with other beta-lactam antibacterial: About 0.5–6.5% of penicillin-sensitive patients will also be allergic to the cephalosporins. Patients with a history of immediate hypersensitivity to penicillin and other beta-lactams should not receive a cephalosporin. Cephalosporins should be used with caution in patients with sensitivity to penicillin and other beta-lactams.
- The most important side-effect of the penicillins is hypersensitivity which causes rashes and anaphylaxis and can be fatal. Allergic reactions to penicillins occur in 1–10% of exposed individuals; anaphylactic reactions occur in less than 0.05% of treated patients. Patients with a history of atopic allergy (e.g. asthma, eczema, hay fever) are at a higher risk of anaphylactic reactions to penicillins. Individuals with a history of anaphylaxis, urticaria, or rash immediately after penicillin administration are at risk of immediate hypersensitivity to a penicillin; these individuals should not receive a penicillin.
- Individuals with a history of a minor rash (i.e. non-confluent, non-pruritic rash restricted to a small area of the body) or a rash that occurs more than 72 hours after penicillin administration are probably not allergic to penicillin and in these individuals a penicillin should not be withheld unnecessarily for serious infections; the possibility of an allergic reaction should, however, be borne in mind. Other beta-lactam antibiotics (including cephalosporins) can be used in these patients.

Lead author: SW London Antimicrobial Network for use in Croydon. Approved by IMOC on date: October 2025









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Infection	Comments	Medications		ADULT dose for child's doses cl	lick on BNF for children	Duration of treatment	References & Useful links
MENINGITIS							
Suspected meningococcal disease	Transfer all patients to hospital immediately. If time before hospital admission, and non-blanching rash, give IV benzylpenicillin or cefotaxime Do not give IV antibiotics if there is a definite history of anaphylaxis with penicillin. A history of a rash following antibiotics is not a contraindication in this indication.	First Line IV or IM: Benzylpenicillin STAT (Penicillin based antibiotic) If Penicillin Allergy: IV or IM: Cefotaxime STAT	Adults: Children: Adults: Children:	& Child over 10 years Under 1 years: 1 - 9 years: & Child over 12 years Under 12 years:	300mg 600mg	STAT dose (Give IM if vein cannot be found)	NICE CG102, updated Feb 2015
	l y case of meningitis: Only prescribe following advice from your local th Protection Team: ☎: 0344 326 2052 (same number 9am- 5pm, a		only). 省: phe	e.slhpt@nhs.net; slhpt.on		,	
	DRY TRACT INFECTIONS		777 - 1	ar his	Ср. т.		
Influenza	Annual vaccination is essential for all those <u>at risk</u> of influenza. An Treat <u>at risk</u> patients with 5 days oseltamivir 75mg BD, when influentially children, or in a care home where influenza is likely. <u>At risk</u> : pregnant (and up to 2 weeks post-partum); children under cardiovascular disease (not hypertension); severe immunosuppress See the PHE Influenza guidance for the treatment of patients under the properties of th	enza is circulating in the community, and 6 months; adults 65 years or older; chron sion; chronic neurological, renal or liver dir 13 years.	ideally withi ic respirator isease; diabe	ry disease (including COPE etes mellitus; morbid obe	and asthma); signification		UKTIS pregnancy PHE Influenza guidance PHE website
Scarlet fever	In severe immunosuppression, or oseltamivir resistance, use zanal Prompt treatment with appropriate antibiotics significantly	First Line	r for up to 1	U days) and seek advice.			Nov 2018
(Group A Streptococcal, GAS infection)	reduces the risk of complications. Optimise analgesia and give safety netting advice Vulnerable individuals [immunocompromised, those with comorbidities (e.g. diabetes mellitus), injecting drug users, women in the puerperal period or individuals with skin lesions such as chickenpox or wounds] are at increased risk of developing	Oral: Phenoxymethylpenicillin (Penicillin based antibiotic)	Adults: Children:	500mg QDS Neonates: 12.5 mg/kg Child 1–11 mths: Child 1–5 years: Child 6–11 years: Child 12–17 years	(max 65.2mg) QDS 62.5 mg QDS 125 mg QDS 250 mg QDS 250–500 mg QDS	10 days 10 days	PHE: Notifiable diseases and causative organisms: how to report CKS Scarlet Fever
	complications. Consider arranging admission for urgent assessment and treatment of people who: Have pre-existing valvular heart disease Are significantly immunocompromised Have a suspected severe complication of scarlet fever such as streptococcal toxic shock syndrome, acute rheumatic fever or streptococcal glomerulonephritis Advise exclusion from nursery/school/work for at least 24 hours after the commencement of appropriate antibiotic treatment	If Penicillin Allergy: Oral: Clarithromycin (Adults and Children)	Adults: Children: under 12 years	250 - 500mg BD Under 8kg: 8 - 11kg: 12 - 19kg: 20 - 29kg: 30 - 40kg:	7.5mg/kg BD 62.5mg BD 125mg BD 187.5mg BD 250mg BD 250 – 500mg BD	5 days	
	Scarlet fever is a notifiable disease. If there is any suspicion of infection because of clinical features, a notification form should be completed and sent to the local Public Health England (PHE) centre within 3 days	OR Oral: Erythromycin – pregnancy	Adults:	250mg to 500mg QD 500mg to 1000mg Bl		5 days	Oct 2018













Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Acute sore throat	Advise paracetamol, or if preferred and suitable, ibuprofen for pain. Medicated lozenges may help pain in adults. Sore throats caused by streptococcal bacteria are more likely to	First Line Oral: Phenoxymethylpenicillin (Penicillin based antibiotic)	Adults:	500mg QDS or 1g BD	5 - 10 days	NICE Sore throat (acute): antimicrobial
	benefit from antibiotics. FeverPAIN or Centor criteria are clinical scoring tools that can help to identify the people in whom this is more likely.	Avoid broad-spectrum penicillins (e.g. amoxicillin) for the blind treatment of sore throat. Maculopapular rashes occur		(can be increased up to 1g QDS, in severe infections)		prescribing - Visual summary
	FeverPAIN criteria Fever (during previous 24 hours) Purulence (pus on tonsils) Attend rapidly (within 3 days after onset) Inflamed tonsils (severe)	commonly with ampicillin and amoxicillin but are not usually related to true penicillin allergy. They almost always occur in people with glandular fever which is caused by the Epstein-Barr virus	Children:	BNF for children	5 - 10 days	NICE NG84, Jan 2018
	No cough or coryza Each of the FeverPAIN criteria score 1 point. Higher scores suggest more severe symptoms and likely bacterial (streptococcal) cause.	If Penicillin Allergy: Oral: Clarithromycin (Adults and Children)	Adults:	250 - 500mg BD	5 days	
	FeverPAIN 0-1 / Centor 0-2: no antibiotic FeverPAIN 2-3: no / back-up antibiotic FeverPAIN 4-5 / Centor 3-4: immediate / back-up antibiotic	OR Oral: Erythromycin – pregnancy	Adults:	250mg to 500mg QDS or 500mg to 1000mg BD	5 days	
	Systemically very unwell or high risk of complications: immediate antibiotic	Macrolides have a broader spectrum of activity than phenoxymethylpenicillin and therefore more likely to drive the emergence of bacterial resistance.	Children:	BNF for children	5 days	
	Consider hospital admission for: suspected epiglottitis, breathing difficulty, clinical dehydration, Peri-tonsillar abscess or cellulitis, parapharyngeal abscess, retropharyngeal abscess, or Lemierre parapharyngeal abscess, retropharyngeal abscess, or Lemierre	Cochrane review by Altamimi et al, 2012 demonstrates that a short-course (5 days) of clarithromycin is as efficacious as 10-day-penicillin for sore throat and GABHS eradication)				Jan 2018
Acute Otitis Externa	In the first instance avoid antibiotic, analgesia for pain relief, self-care advice and apply localised heat (such as a warm flannel). Subsequently consider topical acetic acid or a topical antibiotic with or without a topical corticosteroid topical antibiotic +/-steroid: similar cure at 7 days.	OTC for adults Ear Spray: Acetic acid 2%, (EarCalm® spray) Which acts as an antifungal and antibacterial in the external ear canal OR	Adults & Children 12 years +:	2 drops TDS and after swimming / showering / bathing. Maximum dosage frequency one spray every 2 - 3 hours.	7 days Max. as excessive use may result in fungal infections	PHE context references and rationale Oct 2018 CKS Otitis externa
	If cellulitis or disease extends outside ear canal, or systemic signs of infection, start treatment for cellulitis and refer to exclude malignant otitis externa.	First Line Ear drops: Betamethasone sodium phosphate 0.1%, Neomycin sulfate 0.5% (Betnesol-N ear/eye/nose drops)	Adults & Children:	2-3 drops TDS - QDS	7 – 14 days	
		Second Line Ear Spray: Neomycin sulfate 0.5%, Acetic acid glacial 2%, Dexamethasone 0.1%	Adults & Children 2 years +:	1 spray TDS	7 -14 days	
		(Otomize® Ear spray)				Nov 2017

Infection	Con	nments	Medications	ADULT dose for child's doses click on forchilden	Duration of treatment	References & Useful links
Acute Otitis Media (AOM)	AOM is a self-limiting infection that mainly affects children. It can be caused by a virus and bacteria and it is difficult to distinguish between these. However, both are usually self-limiting and do not routinely need antibiotics. Advise AOM lasts about 3 days but can be up to 1 week. Antibiotics make little difference to the number of children whose symptoms improve. Complications (e.g. mastoidosis) are rare with or without antibiotics. Optimise analgesia and avoid antibiotics Those with otorrhoea, or those aged less than 2 years with bilateral infection are more likely to benefit from antibiotics Systemically very unwell or high risk of complications: Immediate antibiotic		Offer regular paracetamol or ibuprofe Consider eardrops containing anaesthetic and analgesic if an immediate oral antibiotic prescription is not given and there is no eardrum perforation / otorrhoea i.e Phenazone 40mg/g with lidocaine 10mg/g (Otigo®) First Line Oral: Amoxicillin (Penicillin based antibiotic)	Apply 4 drops two or three times a day Children: Forchildren	Up to 7 days Up to 7 days 5 - 7 days 5 - 7 days	NICE Otitis Media (acute) antimicrobial prescribing - Visual Summary NICE NG91, Mar 2022
	Otorrhoea or under 2 years with infection in both ears: Otherwise:	 No antibiotics or Back-up antibiotics or Immediate antibiotic No antibiotic or Back-up antibiotic 		for children	5 – 7 days	
	Seek medical help if symptoms worsen rapidly or significantly. With back-up antibiotic prescription, advise: Antibiotic not needed immediately. Use prescription if no improvement in 3 days or symptoms worsen. Seek medical help if symptoms worsen rapidly or significantly. With no antibiotic given, advise:		OR Oral: Erythromycin – pregnancy Second Line Worsening symptoms on first choice taken for at least 2 - 3 days Oral: Co-amoxiclav (Penicillin based antibiotic)	Children BNF for children Children: BNF for children	5 – 7 days 5 – 7 days 5 – 7 days	
	Antibiotic is not needed. Seek r rapidly or significantly.	nedical help if symptoms worsen	Second line in penicillin allergic – Consult local microbiologist	[for children]		Oct 2024

Infection		Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Acute Sinusitis (Rhinosinusitis)	Consider paracetamol or ibuprofen for pain or fever		First Line Oral: Phenoxymethylpenicillin (Penicillin based antibiotic)	Adults: Children:	500mg QDS	5 days	NICE Sinusitis (acute) - Visual Summary NICE NG79, Oct 2017
	Systemically very unwell or high risk of complications:	Immediate antibiotic	If Penicillin Allergy: Oral: Doxycycline (not to be used in Children under 12s or in pregnancy) OR	Adults & Children 12 years +:	200mg on day 1, then 100mg OD	5 days	
	Symptoms with no improvement for more than 10 days	No antibiotics or Back-up antibiotics depending on likelihood of bacterial cause. Consider high-dose nasal	Oral: Clarithromycin (Adults and Children)	Adults: Children:	250 - 500mg BD	5 days	
	Symptoms for 10 days or less	corticosteroid (if over 12 years). No antibiotic	Second choice or first choice if systemically very unwell or high risk of complications: Oral: Co-amoxiclav (Penicillin based antibiotic)	Adults:	250mg to 500mg QDS or 500mg to 1000mg BD	5 days	
	are present: symptoms purulent nasal discharg	more likely if several of the following for more than 10 days, discoloured or e, severe localised unilateral pain eeth and jaw), fever, marked deterioration hase		Adults: Children:	500/125mg TDS BNF for children	5 days 5 days	Oct 2017
Chronic Sinusitis (Rhinosinusitis) Inflammation of the paranasal sinuses lasting more than 12 weeks	however there may be	ong-term antibiotics for chronic sinusitis a place for their use for acute exacerbation c sinusitis (for example, purulent discharge,	s concern of increasing bacterial resistance	ce, the low spe	e initiated because of the potential for adverse ecificity of a symptomatic primary care diagno		ENT UK and Royal College of Surgeons, 2016; CKS Chronic sinusitis, Jun 2018

Infection	Comments		Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
LOWER RESPIRAT	FORY TRACT INFECTIONS (LRTI)						
Note: Low doses of p	enicillins are more likely to select out resistanc	e, we recommend	500mg of amoxicillin.				
Do not use fluoroquir	nolones (ciprofloxacin, ofloxacin) first line beca	use they may have	e long-term side effects and there is po	or pneumoco	ccal activity.		
Acute cough,	Consider self-care treatments		First Line ONLY where antibiotics				
bronchitis (LRTI)	Acute cough with upper respiratory tract		are indicated				NICE NG120, Feb 2019
	infection	No antibiotic	Oral: Doxycycline (not to be used in	Adults &	200mg on day 1, then 100mg OD	5 days	
	Acute bronchitis	No routine	Children under 12s or in pregnancy)	Children		,	NICE Cough (acute) –
	Acute cough and higher risk of complications	antibiotic Immediate or		12 years +:			Visual Summary
	(at face-to-face examination)	back up antibiotic	OR				
	Acute cough and systemically very unwell (at	Immediate	1	Adults:	500mg TDS	5 days	
	face-to-face examination)	antibiotic	(Penicillin based antibiotic)	Children:	BNF for children		
	Higher risk of complications includes pre-existing		Altomotivo chaices	0 -1 - 11	 	F. d	_
	young children born prematurely; people over		Alternative choices Oral: Clarithromycin	Adults: Children:	250 - 500mg BD	5 days	
	of, or over 80 with 1 or more of: hospitalisation type 1 or 2 diabetes, history of congestive hear		(Adults and Children)	Ciliaren.	BNF for children		
	use of oral corticosteroids.	t failure, current	(radio and ormal orly				
	Do not offer a mucolytic, an oral or inhaled bro	OR Oral: Erythromycin – pregnancy	Adults:	250mg to 500mg QDS or	5 days	July 2020	
	oral or inhaled corticosteroid unless otherwise			71001001	500mg to 1000mg BD	3 44,5	,
Acute	Many exacerbations are not caused by bacteria	I infections so will	<u>First Line</u>				
exacerbation of	not respond to antibiotics.		Oral: Amoxicillin				NICE COPD - Visual
COPD	Consider an antibiotic, but only after taking into		(Penicillin based antibiotic)	Adults:	500mg TDS	5 days	Summary
	of symptoms (particularly sputum colour chang		OR				NICE NC114 Dec 2019
	volume or thickness), need for hospitalisation, exacerbations, hospitalisations and risk of com		Oral: Doxycycline (not to be used in	Adults:			NICE NG114, Dec 2018
	sputum culture and susceptibility results, and r		Children under 12s or pregnancy)	Adults.	200mg on day 1, then 100mg OD	5 days	
	with repeated courses.		OR				
	Some people at risk of exacerbations may have	antibiotics to keep		Adults:	500mg BD		
	at home as part of their exacerbation action pla	an.	Oral: Clarithromycin OR Oral: Erythromycin – pregnancy	Adults:	250mg to 500mg QDS or	5 days	
			Or Oral. Erytholliyen - pregnancy	/ tauto:	500mg to 1000mg BD	Jauys	
			Second line:				-
			Use alternative first choice				
			Alternative choice (if person at				
			higher risk of treatment failure):				
			Oral: Co-amoxiclav	Adults:	500/125mg TDS	5 days	
			(Penicillin based antibiotic)				
			OR				
			Oral: Levofloxacin	Adults:	500mg OD	5 days	
			(Consider safety issues)	Auuits.	500mg OD	3 4473	
			OR				
			Oral: Co-trimoxazole				
			(Consider safety issues)	Adults:	960mg BD	5 days	
							Dec 2018

Infection			Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Community acquired pneumonia (CAP)		ideline on sepsis	ess and manage the person in line with es: recognition, diagnosis and early	Low-severity disease Oral: Amoxicillin (Penicillin based antibiotic)	Adults:	500mg TDS (higher doses can be used; see BNF)		NICE NG250, Sep 2025
ADULTS (page 1 of 2)	score CREConfusi person,Respira	365. Each CRB65 on (Antimicrobia place or time) tory rate >30/mi systolic <90mml	al judgement guided by mortality risk parameter scores one: al MT<8, or new disorientation in in; Hg or low diastolic ≤ 60mmHg;	Alternative choice if amoxicillin unsuitable (e.g. penicillin allergy or atypical pathogens suspected) Oral: Doxycycline (Not to be used in pregnancy) OR	Adults:	200mg on day 1, then 100mg OD	5 days	NICE Community- acquired Pneumonia (adults presenting to primary care)- Visual Summary
	situations	where the mor	always be used, as there may be tality risk score does not align with the verity such as comorbidities or form shared decisions about place of	Oral: Clarithromycin OR	Adults:	500mg BD		
	care.	Severity	Potential place of care	Oral: Erythromycin – pregnancy	Adults:	500mg QDS		
	0	Low	Primary care-led services and safety netting advice	Moderate-severity disease				
	1	Moderate	Primary care-led services and safety netting advice or referral to: Virtual ward Same day emergency care unit	Oral: Amoxicillin (Penicillin based antibiotic)	Adults:	500mg TDS (higher doses can be used; see BNF)		
	2	Moderate	Hospital at home service Inpatient care Refer to hospital	WITH (if atypical pathogens suspected) Oral: Clarithromycin	Adults:	500mg BD		
	3 4	High High	Refer to hospital Refer to hospital	OR				
	When considering a virtual ward, SDEC unit or hospital at home service, make a shared decision with the person (and their family/carers, where appropriate) about the most appropriate		ecision with the person (and their ropriate) about the most appropriate	Oral: Erythromycin – pregnancy	Adults:	500mg QDS	5 days	
	TheAny	advanced care p	account: ences and support network plan or treatment escalation plan ng any comorbidities or frailty	Alternative if amoxicillin unsuitable (e.g. penicillin allergy) Oral: Doxycycline (not to be used in	Adults:	200mg on day 1, then 100mg OD		
	• The	safety and suital	bility of the person's home environment	children under 12s or in pregnancy)	Auuits.	200mg on day 1, then 100mg ob		
	diagnosis		as soon as possible after establishing a gan antibiotic, take account of:	OR				
	- THE UIS	cuse severity (to	manaca belowj	Oral: Clarithromycin	Adults:	500mg BD		October 2025

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Community acquired pneumonia (CAP) ADULTS (page 2 of 2)	 The risk of complications, e.g. a relevant comorbidity (such as severe lung disease or immunosuppression) Recent antibiotic use Previous microbiological results, including colonisation with multi-drug resistant bacteria Give oral antibiotics first line if the person can take oral medicines, and the severity of their condition does not require intravenous antibiotics. Stop antibiotics after 5 days unless microbiological results suggest a longer course is needed or the person is not clinically stable. Reassess people if symptoms or signs do not improve as expected or worsen rapidly or significantly. 	High-severity disease Oral: Co-amoxiclav (Penicillin based antibiotic) WITH (if atypical pathogens suspected) Oral: Clarithromycin OR Oral: Erythromycin – pregnancy Alternative if co-amoxiclav unsuitable (e.g. penicillin allergy) Oral: Levofloxacin (consider safety issues)	Adults: Adults: Adults:	625 mg TDS 500mg BD 500mg QDS	5 days	NICE NG250, Sep 2025 NICE Community- acquired Pneumonia (adults presenting to primary care)- Visual Summary
		Refer to hospital if IV required				October 2025

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of	References &
	Defends and district and significant and and another	5			treatment	Useful links
Community	Refer to paediatric specialist if under 1 month.	First line oral antibiotic if non-severe Oral: Amoxicillin	Children:	1-2 months, 125mg tds 3-11 months, 125mg tds	5 days	NICE NG250, Sep 2025
acquired	In children and young people, severity is assessed by clinical	(Penicillin based antibiotic)	Ciliaren.	1-4 years, 250mg tds	3 days 3 days	
pneumonia (CAP)	judgement. Features of severe CAP may include: • Difficulty breathing • Severe chest indrawing	(1 Cincinii basea antibiotic)		5-11 years, 500mg tds	3 days	NICE Community-
CHILDREN	Oxygen saturation less than 90% Raised heart rate			12-17 years, 500mg tds	5 days	acquired Pneumonia (Children and young
	Inability to breastfeed or drink Lethargy	Alternative choice if amoxicillin		(higher doses can be used for all ages,	Jauys	people) - Visual
	Reduced level of consciousness Grunting	unsuitable (e.g. penicillin allergy or		see BNF)		Summary
	Note that percutaneous oxygen saturation monitors may be	atypical pathogens suspected)		forchildren		,
	inaccurate in people with pigmented skin.	Oral: Clarithromycin	Children:	1 to 2 months:		
	When choosing antibiotics, take account of			•under 8 kg, 7.5 mg/kg bd	5 days	
	• the severity of symptoms or signs in children and young people			3 months to 11 years:		
	• the risk of complications, for example, a relevant comorbidity			• under 8 kg, 7.5 mg/kg bd	3 days	
	(such as severe lung disease or immunosuppression) • local antimicrobial resistance and surveillance data (such as flu			• 8 to 11 kg, 62.5 mg bd	3 days	
	and Mycoplasma pneumoniae infection rates)	OR		• 12 to 19 kg, 125 mg bd	3 days	
	recent antibiotic use			• 20 to 29 kg, 187.5 mg bd	3 days	
	previous microbiological results, including colonisation with			• 30 to 40 kg, 250 mg bd	3 days	
	multi-drug resistant bacteria.			12 to 17 years, 250 mg to 500 mg bd	5 days	
	For children and young people with severe community acquired	Oral: Erythromycin – pregnancy	Children:	8 to 11 years, 250 mg to 500 mg qds	3 days	
	pneumonia:	OR		12 to 17 years, 250 mg to 500 mg qds	5 days	
	Consider blood cultures if there are additional clinical					
	indications such as suspected sepsis [NICE sepsis: recognition,	Oral: Doxycycline (not to be used in	Children:	12 to 17 years, 200 mg on first day, then	5 days in	
	diagnosis and early management.] • Consider sputum cultures, if possible and age appropriate,	Children under 12s or in pregnancy)		100 mg once a day for 4 days	total	
	taking into account their history of antibiotic treatment, their	<u>First line oral antibiotic if severe</u>		1 to 11 months,		
	clinical trajectory, the presence of any comorbidities, any recent	Oral: Co-amoxiclav	Children:	•0.5 ml/kg of 125/31 suspension tds	5 days	
	hospitalisation and the likelihood of getting a good quality	(Penicillin based antibiotic)		1 to 5 years,		
	sputum sample.			•10 ml of 125/31 suspension tds or	E dans	
	Do not routinely use urinary antigen tests.			•0.5 ml/kg of 125/31 suspension tds or	5 days	
	Explain to parents or carers of children with CAP that after			•5 ml of 250/62 suspension tds		
	starting treatment their child's symptoms should steadily			6 to 11 years, •10 ml of 250/62 suspension tds or	5 days	
	improve, although the rate of improvement will vary and some			•0.3 ml/kg of 250/62 suspension tds	Juays	
	symptoms will persist after stopping antibiotics.	PLUS ONE of the following 2 options		12 to 17 years, 625 mg tds	5 days	
	For most children:	if atypical pathogens suspected		, , , , , , , , , , , , , , , , , , , ,		
	fever (without use of antipyretics) and difficulty breathing should have resolved within 3 to 4 days	Oral: Clarithromycin	Children:	1 to 2 months:		
	cough should gradually improve but may persist for up to 4	J. S.		•under 8 kg, 7.5 mg/kg bd	5 days	
	weeks after discharge and does not usually require further			3 months to 11 years:		
	review if the child is otherwise well.			• under 8 kg, 7.5 mg/kg bd	5 days	
	Advise parents or carers of children with CAP to seek further			• 8 to 11 kg, 62.5 mg bd	5 days	
	advice if there is persisting fever combined with:			• 12 to 19 kg, 125 mg bd	5 days	
	increased work of breathing or	OR		• 20 to 29 kg, 187.5 mg bd	5 days	
	reduced fluid intake for children or poor feeding for infants or			• 30 to 40 kg, 250 mg bd	5 days	
	• unresolving fatigue.			12 to 17 years, 250 mg to 500 mg bd	5 days	
	If intravenous antibiotics required, or alternative antibiotics required for severe CAP or penicillin allergy, consult microbiologist				E dove	
	required for severe ear or perilential difergy, consult inicionalologist	Oral: Erythromycin – pregnancy	Children:	8 to 17 years, 250 mg to 500 mg qds	5 days	October 2025

Infection	Comments	Medications		ADULT dose for child's doses click on for childen	Duration of treatment	References & Useful links
Hospital acquired pneumonia (HAP)	Refer to paediatric specialist if under 1 month. Definitions: Hospital-acquired pneumonia includes people who have been discharged from hospital within the last 7 to 10 days. Ventilator associated pneumonia is excluded in this guideline. Higher risk of resistance includes symptoms or signs starting more than 5 days after hospital admission, relevant comorbidity such as severe lung disease or immunosuppression, recent use of broad spectrum antibiotics, colonisation with multi-drug resistant bacteria and recent contact with health or social care setting before current admission. Start antibiotic treatment as soon as possible after establishing a diagnosis of HAP.	First line oral antibiotic if non-severe and not at higher risk of resistance Oral: Co-amoxiclav (Penicillin based antibiotic) Alternative choice if amoxicillin unsuitable (e.g. penicillin allergy or co-amoxiclay unsuitable)	Adults: Children:	625mg tds 1 to 11 months, •0.5 ml/kg of 125/31 suspension tds 1 to 5 years, •10 ml of 125/31 suspension tds or •0.5 ml/kg of 125/31 suspension tds or •5 ml of 250/62 suspension tds 6 to 11 years, •10 ml of 250/62 suspension tds or •0.3 ml/kg of 250/62 suspension tds 12 to 17 years, 500/125 mg tds	5 days then review 5 days then review 5 days then review	NICE NG250, Sep 2025 NICE Hospital- acquired Pneumonia - Visual Summary
	When choosing an antibiotic(s), take account of: • disease severity (based on clinical judgement) • number of days in hospital before onset of symptoms • the risk of developing complications, for example if the person has a relevant comorbidity (such as severe lung disease or immunosuppression) • recent antibiotic use • recent microbiological results, including colonisation with multidrug resistant bacteria • recent contact with health or social care setting before current	co-amoxiclav unsuitable) Oral: Doxycycline (not to be used in Children under 12s or in pregnancy) OR Cefelaxin (Penicillin based antibiotic) OR	Adults:	200mg on first day, then 100mg once a day for 4 days 500 mg twice or three times a day (can be increased to 1 to 1.5 g three or four times a day)	5 days then review 5 days then review	
	 admission the risk of adverse effects with broad spectrum antibiotics, including Clostridium difficile infection. Give oral antibiotics first line if the person can take oral medicines, and the severity of their condition does not require intravenous antibiotics. Stop antibiotics after 5 days unless microbiological results suggest a longer course is needed or the person is not clinically stable. Reassess people if symptoms or signs do not improve as expected or worsen rapidly or significantly. Consider sending a sample (sputum, nasopharyngeal swab or tracheal aspirate) for processing where appropriate/possible. 	Clarithromycin	Children:	1 month to 11 years: under 8 kg, 7.5 mg/kg bd 8 to 11 kg, 62.5 mg bd 12 to 19 kg, 125 mg bd; 20 to 29 kg, 187.5 mg bd 30 to 40 kg, 250 mg bd 12 to 17 years, 500 mg bd	5 days then review	
						October 2025

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Bronchiectasis (non-cystic fibrosis) acute exacerbation	An acute exacerbation of bronchiectasis is sustained worsening of symptoms from a person's stable state. Send a sputum sample for culture and susceptibility testing Offer an antibiotic - take account of: the severity of symptoms previous exacerbations, hospitalisations and risk of complications	First Line: When current susceptibility data available, choose antibiotics accordingly: Oral: Amoxicillin (Penicillin based antibiotic) OR	Adults: Children:	500mg TDS SNF for children	7 – 14 days	NICE Bronchiectasis (acute exacerbation): antimicrobial prescribing - Visual Summary
	 previous sputum culture and susceptibility results When results of sputum culture are available: review choice of antibiotic only change antibiotic according to susceptibility results 	Oral: Doxycycline (not to be used in Children under 12s or in pregnancy) OR	Adults:	200mg on day 1, then 100mg OD 500mg BD	7 - 14 days	NICE NG117, Dec 2018
	if bacteria are resistant and symptoms are not already improving, using narrow spectrum antibiotics when possible Give oral antibiotics first line if possible Reassess at any time if symptoms worsen rapidly or	Oral: Clarithromycin OR Oral: Erythromycin – pregnancy	Children: Adults:	250mg to 500mg QDS or 500mg to 1000mg BD	7 – 14 days	
	significantly, taking account of: other possible diagnoses, such as pneumonia symptoms or signs of something more serious, such as cardiorespiratory failure or sepsis previous antibiotic use, which may have led to resistant bacteria	Alternative choice (if person at higher risk of treatment failure): Oral: Co-amoxiclav (Penicillin based antibiotic) OR	Adults: Children:	500/125mg TDS	7 - 14 days	
	Refer to hospital if the person has any symptoms or signs suggesting a more serious illness or condition (for example, cardiorespiratory failure or sepsis).	Oral: Levofloxacin – Adults (Consider safety issues)	Adults:	500mg OD	7 – 14 days	
	Seek specialist advice if: symptoms do not improve with repeated courses of antibiotics	OR Oral: Ciprofloxacin (on specialist advice) – Children	Children:	BNF for children	7 – 14 days	
	 bacteria are resistant to oral antibiotics the person cannot take oral medicines (to explore giving intravenous antibiotics at home or in the community if 			se oral antibiotics or severely unwell) for em data (guided by most recent sputum culture	•	
	appropriate)	IV: Co-amoxiclav (Penicillin based antibiotic) OR	Adults: Children:	1.2g TDS BNF for children	Review all IV antibiotic treatment in	
		IV: Piperacillin with Tazobactam (Penicillin based antibiotic) OR	Adults: Children:	4.5g TDS BNF for children	48 -72 hours	
		IV: Levofloxacin – Adults (Consider safety issues)	Adults:	500mg OD – BD		
		OR IV: Ciprofloxacin (on specialist advice) – Children	Children:	BNF for children		Dec 2018

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links	
URINARY TRACT I	INFECTIONS						
Lower Urinary	Advise paracetamol or ibuprofen for pain and drinking enough fluid to avoid dehydration.		dults (16 year and over): Women (non pregnant) and Men				
tract infection	· ·	First Line:	A -1 - 14	100 11/0 00	Women:		
(UTI)	Men, Pregnant women, children or young people: Immediate antibiotic.	Oral: Nitrofurantoin (Nitrofurantoin if GFR over 45ml/min)	Adults:	100mg M/R BD	3 days	NICE UTI (lower):	
		(May be used with caution if eGFR 30-44			Julys	antimicrobial	
	Women: Non-pregnant	ml/minute to treat uncomplicated lower			Men: 7 days	prescribing - Visual	
	Back up antibiotic (to use if no improvement in 48 hours or and the second s	UTI caused by suspected or proven				Summary	
	symptoms worsen at any time) or immediate antibiotic.	multidrug resistant bacteria and only if					
	When considering antibiotics, take account of severity of	potential benefit outweighs risk) Second line: Men				NICE NG109, Oct 2018	
	symptoms, risk of complications, previous urine culture and		ntihiotic choice	e on recent culture and susceptibility results		11102 110103, 001 2010	
	susceptibility results, previous antibiotic use which may have led	Second line: Women				-	
	to resistant bacteria and local antimicrobial resistance data.	Oral: Pivmecillinam	Adults:	400mg initial dose, then 200mg TDS	3 days		
	Send midstream urine for culture and susceptibility for pregnant	(Penicillin based antibiotic)	7 10.01.001	isomy main dose, then zoomy izo	0 00,0	NICE Decision Aids:	
	women and men.	OR				NICE Decision aid:	
	Seeking medical help if symptoms worsen at any time, do not	Oral: Fosfomycin	Adults:	3g single dose sachet	STAT	Cystitis - Taking an antibiotic, Nov 2018	
	improve within 48 hours of taking the antibiotic, or the person	Pregnant women:			<u>'</u>	antibiotic, NOV 2018	
	becomes very unwell.	First Line:					
	Asymptomatic bacteriuria: is significant levels of bacteria in urine	Oral: Nitrofurantoin (avoid at term)	Adults:	100mg M/R BD	7 days		
	with no UTI symptoms	(Nitrofurantoin if GFR over 45ml/min)					
	Screened for and treated in pregnant women because risk	Second line:					
	factor for pyelonephritis and premature delivery	Oral: Amoxicillin	Adults:	500mg TDS	7 days		
	Not screened for or treated in non-pregnant women, men,	(Penicillin based antibiotic)					
	children or young people	(Only if culture results available and susceptible)					
	Prescribe a 5–10-day course of treatment for women who have:	OR					
	Impaired renal function.	Oral: Cefalexin	Adults:	500mg BD	7 days		
	Abnormal urinary tract (e.g. renal calculus, vesicoureteric reflux (abnormal flow of urine from the bladder into the	(Beta-lactam antibiotic)					
	upper urinary tract), reflux nephropathy, neurogenic	Children and young people (3 mo	nths and ov	ver)			
	bladder, urinary obstruction, recent instrumentation).	Refer children under 3 months to pae	diatric specia	list and treat with intravenous antibiotics			
	Immunosuppression (for example because they have poorly The distribution of the second state of	First line:					
	controlled diabetes mellitus or are receiving immunosuppressive treatment.	Oral: Trimethoprim	Children:	BMF for children	3 days		
		OR					
	Nitrofurantoin has been used for many years in pregnancy	Oral: Nitrofurantoin	Children:	BNF for children	3 days		
	[Schaefer et al, 2007; UKTIS, 2012b]. The drug is concentrated in the urinary tract. Consequently,	(Nitrofurantoin if GFR <u>over</u> 45ml/min)					
	significant transfer across the placenta does not occur. Although	Second line:	Children:	RME	3 days		
	it is not licensed for use in pregnancy, the manufacturer of	Oral: Nitrofurantoin (Nitrofurantoin if GFR over 45ml/min and	Children:	BNF for children	3 days		
	nitrofurantoin reported that the drug has been used extensively	not used as first choice)					
	clinically since 1952 and its suitability in pregnancy has been well	OR .					
	documented. The BNF recommends that nitrofurantoin should be	Oral: Cefalexin	Children:	BNF for children	3 days		
	avoided at term, because of the risk of neonatal haemolysis.	(Beta-lactam antibiotic)				July 2020	
	However, the risk seems very small — significant placental transfer of nitrofurantoin does not occur.					, , ,	
	נומווזיבי טו ווונוטועומוונטווו עטפא ווטנ טננעו.	<u> </u>	L				

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Acute pyelonephritis	Send a midstream urine sample for culture and susceptibility testing.	Adults (12 year and over): Wome	en (non preg	gnant) and Men		
(upper urinary tract)	Advise paracetamol (+/- low-dose weak opioid) for pain for people over 12 and offer an antibiotic.	First line: Oral: Cefalexin (Beta-lactam antibiotic) OR	Adults:	500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections)	7-10 days	Pyelonephritis (acute): antimicrobial
	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.	Oral: Co-amoxiclav (Penicillin based antibiotic) (only if culture results available and susceptible) OR	Adults:	500/125mg TDS	7-10 days	prescribing: Visual Summary
	People at higher risk of complications include those with abnormalities of the genitourinary tract or underlying disease (such as diabetes or immunosuppression).	Oral: Trimethoprim (only if culture results available and susceptible) OR	Adults:	200mg BD	14 days	
	Refer children under 3 months to paediatric specialist and treat with intravenous antibiotics in line with the NICE guideline For IV options please refer to Pyelonephritis (acute): antimicrobial	Oral: Ciprofloxacin (consider safety issues)	Adults:	500mg BD	7days	
	prescribing: Visual Summary	Pregnant women:				
		First line: Oral: Cefalexin (Beta-lactam antibiotic)	Adults:	500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections)	7-10 days	
		Second choice antibiotics or combining antibiotics if susceptibility or sepsis a concern				
		Consult microbiologist				
				list and treat with intravenous antibiotics		
		First line: Oral: Cefalexin (Beta-lactam antibiotic)	Children:	BNF for children	7-10 days	
		Oral: Co-amoxiclav (Penicillin based antibiotic) (only if culture results available and susceptible)	Children:	BNF for children	7-10 days	July 2020

Infection	Comments	Medications		ADULT dose for child's doses click on for child's doses click on for children	Duration of treatment	References & Useful links
Acute prostatitis	Acute prostatitis is a bacterial infection needing antibiotics and can occur spontaneously or after medical procedures. It can last several weeks and can lead to acute urinary retention and prostatic abscess. Advise paracetamol (+/- low-dose weak opioid) for pain, or ibuprofen if preferred and suitable. Advise drinking enough fluids to avoid dehydration Offer antibiotic and send a midstream urine sample for culture and susceptibility testing. Usual course of acute prostatitis is several weeks When results of urine culture available: Review the choice of antibiotic, and Change antibiotic according to susceptibility results if bacteria are resistant, using a narrow spectrum antibiotic	First line: To be guided susceptibilities when available: Oral: Ciprofloxacin (consider safety issues) OR Oral: Ofloxacin (consider safety issues) OR Oral: Trimethoprim (if unable to take quinolone) (off label use)	Adults: Adults:	500mg BD 200mg BD	14 days then review 14 days then review 14 days then review	NICE NG110, Oct 2018 Prostatitis (acute): antimicrobial prescribing: Visual Summary
	when possible. Review antibiotic treatment after 14 days and either stop antibiotics or continue for a further 14 days if needed (based on assessment of history, symptoms, clinical examination, urine and blood tests). Quinolones achieve higher prostate levels. Admit to hospital if man has any of the following severely ill, in acute urinary retention. Consider urgent referral is man is immunocompromised or has diabetes or had a pre-existing urological condition	Second line: After discussion with specialist: Oral: Levofloxacin (consider safety issues) OR Oral: Co-trimoxazole (consider safety issues)	Adults: Adults:	500mg OD 960mg BD	14 days then review 14 days then review	July 2020

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Recurrent urinary tract infection (prophylaxis)	Refer or seek specialist advice for: men trans-women and people with a male urinary system people with recurrent upper UTI people with recurrent lower UTI if the underlying cause of	One-off dose when exposed to identifiable trigger First line:				NICE NG112, Dec 2024 UTI (recurrent): antimicrobial prescribing, Visual-
16 years+: 2 in 6 months	recurrent UTI is unknown pregnant people children under 16 years people with suspected cancer anyone who has had surgery structurally altering the urethra	Oral: Nitrofurantoin* (Nitrofurantoin if GFR over 45ml/min) (Avoid at term in pregnant people)	Adults:	100mg single dose	Review within 6 months of	Summary
or ≥3 in a year	For non-pregnant women, trans-men and non-binary people with a female urinary system: • First advise about behavioural and personal hygiene	Second line: Oral: Amoxicillin** (Beta-lactam antibiotic) OR	Adults:	500mg single dose	initiation and annually thereafter.	
Under 16 years: ≥2 upper UTI or 1 upper UTI plus	measures, and self-care (with D-mannose or cranberry products) to reduce the risk of UTI. If no improvement after behavioural or personal hygiene measures or if these are not appropriate: for those who are experiencing perimenopause, menopause, or are	Oral: Cefalexin** (Beta-lactam antibiotic)	Adults:	500mg single dose	Review	
≥1 lower UTI or ≥3 lower UTIs in a year	postmenopausal, consider vaginal oestrogen (off-licence) and review within 12 months. If no improvement after vaginal oestrogen or if it is not appropriate: consider single-dose antibiotic prophylaxis for exposure to a trigger (review within 6 months). If no improvement after trying vaginal oestrogen, and/or prophylaxis for triggers and/or there is no identifiable	Antiseptic prophylaxis Oral: Methenamine* (See comments for prescribing status)	Adults: Children	1g BD BNF for children	within 6 months of initiation and annually thereafter.	
	trigger: consider methenamine hippurate as an alternative to daily prophylaxis, as long as any current UTI is treated (review within 6 months, and then every 12 months, or earlier if agreed with the person). • If no improvement after antiseptic prophylaxis or if it is not appropriate: consider a trial of daily antibiotic prophylaxis (review within 6 months).	Daily antibiotic prophylaxis First line: Oral: Nitrofurantoin* (Nitrofurantoin if GFR over 45ml/min) (Avoid at term)	Adults: Children 6-15yrs:	50-100mg ON		
	Methenamine prescribing status: Red (Prescribed and administered by a specialist) Pregnancy Amber 2 (Initiation by a specialist and review after 6 months, then continuation prescribed in primary care) in complicated upper or lower UTI in men, trans women and non binary people with a male	Second line: Oral: Amoxicillin** (Beta-lactam antibiotic) OR Oral: Cefalexin**	Adults: Children 6-15yrs: Adults:	250mg ON SNF forchildren 125mg ON	Review at least every 6 months.	
	genitourinary system o in children and young people Green (Suitable for prescribing in primary care); in women, and trans men and non-binary people with a female urinary system, if: they are not pregnant and any current UTI has been adequately treated and they have recurrent UTI that has not been adequately improved by behavioural and personal hygiene measures &/or vaginal oestrogen (if any of these have been	* Off label use for preventing recurrent upper UTI or complicated lower UTI	Children 6-15yrs:	BNF for children		
	appropriate and are applicable)	recurrent on				Sep 2025

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Catheter-	Antibiotic treatment is not routinely needed for asymptomatic	Adults (16 year and over): Wome	en (non preg	gnant) and Men: <u>No</u> upper UTI sympto	ms	NICE NG113, Nov 2018
associated urinary	bacteriuria in people with a urinary catheter.	First Line:				
tract infection	(All catheters are colonised with organisms within 48 hours on	Oral: Nitrofurantoin	Adults	100mg M/R BD	7 days	UTI (catheter):
	insertion).	(Nitrofurantoin if GFR <u>over</u> 45ml/min) OR				antimicrobial
	Offer an antibiotic to all catheterized patients with symptoms	Oral: Trimethoprim	Adults:	200mg BD	7 days	prescribing: Visual
	suggestive of a UTI.	(only if culture results available and			·	Summary
	Admit to hospital if severe	susceptible) OR				
	Culture the urine as MRSA, ESBL producing multi resistant E	Oral: Amoxicillin	Adults:	500mg TDS	7 days	-
	Coli infections are common in these patients.	(Penicillin based antibiotic) (Only if			,	
	Consider removing or, if not possible, changing the catheter	culture results available and susceptible)				
	if it has been in place for more than 7 days.	Second line: Oral: Pivmecillinam	Adults:	400mg initial dose, then 200mg TDS	7 days	
	But do not delay antibiotic treatment.	(Penicillin based antibiotic)	Addits.	400mg miliai aose, men 200mg 123	, days	
	Advise paracetamol for pain.	Adults (12 year and over): Wome	n (non preg	gnant) and Men: with UPPER UTI symp	toms	
	Advise drinking enough fluids to avoid dehydration.	Oral: Cefalexin	Adults:	500mg BD or TDS (up to 1g to 1.5g TDS	7-10 days	
		(Beta-lactam antibiotic) OR		OR QDS for severe infections)		
	When prescribing antibiotics, take account of severity of	Oral: Co-amoxiclav	Adults:	500/125mg TDS	7-10 days	-
	symptoms, risk of complications, previous urine culture and	(Penicillin based antibiotic) (only if			, , ,	
	susceptibility results, previous antibiotic use which may have led	culture results available and susceptible)				
	to resistant bacteria and local antimicrobial resistance data.	Oral: Trimethoprim	Adults:	200mg BD	14 days	
	Do not routinely offer antibiotic prophylaxis to people with a	(only if culture results available and	, tauto	200mg 55	1 · days	
	short-term or long-term catheter.	susceptible)				
		Oral: Ciprofloxacin	Adults:	500mg BD	7 days	-
		(consider safety issues)	Addits.	Sooning DD	/ days	
		Pregnant women:	<u>'</u>			
		First line:	0 4	500 PD on TDC / to 1 - to 1 Fo TDC	7 10 40	
		Oral: Cefalexin (Beta-lactam antibiotic)	Adults:	500mg BD or TDS (up to 1g to 1.5g TDS or QDS for severe infections)	7-10 days	
				(
		Children and young people under Refer children under 3 months to pae	· 16 years diatric specia	list and treat with intravenous antibiotics		
		Oral: Trimethoprim	Children:		7 to 10 days	
		(only if culture results available and	Children:	BNF for children	7 to 10 days	
		susceptible)				
		OR				
		Oral: Amoxicillin	Children:	BNF for children	7 to 10 days	
		(Penicillin based antibiotic) (only if				
		culture results available and susceptible) OR			7 to 10 days	
		Oral: Cefalexin	Children:	SMF for children	, to 10 days	
		(Beta-lactam antibiotic)	3	for children		
		OR			7 to 10 days	
		Oral: Co-amoxiclav	Children:	BNF for children		July 2020
		(Penicillin based antibiotic) (only if				
		culture results available and susceptible)				

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
GASTRO-INTESTIN	NAL TRACT INFECTIONS					
Oral candidiasis (Oropharyngeal fungal infections)	Acute pseudomembranous candidiasis (thrush), is usually an acute infection but it may persist for months in patients receiving inhaled corticosteroids, cytotoxics or broad-spectrum antibacterials. Topical azoles are more effective than topical nystatin. Oral candidiasis is rare in immunocompetent adults; consider undiagnosed risk factors, including HIV.	First line: Topical: Miconazole oromucosal gel	Adults:	2.5ml of 24mg/ml (20mg/g) QDS (hold in mouth/retain near oral lesions before swallowing) (to be administered after food)	7 days; then continue for 7 days after resolved	PHE context references and rationale Oct 2018
	Use 50 mg fluconazole if extensive/severe candidiasis; if HIV or immunocompromised, use 100 mg fluconazole	Second line: If Miconazole is not tolerated: Topical: Nystatin suspension	Adults & Children:	1ml; 100,000units/mL QDS (half in each side)	7 days, and continued for 48 hours after lesions have resolved	
		Third Line: Oral: Fluconazole capsules	Adults: Children:	50mg OD (100mg OD in HIV / immunocompromised)	7-14 days	
						Oct 2018
Infectious Diarrhoea						
						Oct 2018

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Eradication of Helicobacter pylori (H.pylori)	Always test for <i>H. pylori</i> before giving antibiotics. Leave a 2-week washout period after proton pump inhibitor (PPI) use before testing for <i>H. pylori</i> with a carbon-13 urea breath test (UBT) or a stool antigen test (STA), or laboratory-based serology	Always use Oral PPI AND 2 oral antibiotics: First or Second line:	Adults:	Omeprazole 20 BD or Lansoprazole 30mg BD		PHE context references and rationale Oct 2018
	where its performance has been locally validated. Treat all positives, if known duodenal ulcers (DU), Gastric ulcer (GU), or low grade mucosa-associated lymphoid tissue (MALT) lymphoma (MALToma).	Oral PPI WITH Oral Amoxicillin (Penicillin based antibiotic) PLUS • Either Oral Clarithromycin OR	Adults:	1g BD 500mg BD	First line 7 days	PHE: Test and treat for HP in dyspepsia July 2017
	NNT in non-ulcer dyspepsia (NUD): 14. Do not offer <i>H.pylori</i> eradication for GORD. Also note: Both <i>H. pylori</i> and NSAIDs are independent rick factors.	Oral Metronidazole	Children:	400mg BD	Relapse 10 days	NICE CG184, Updated Nov 2014
	Also note: Both <i>H. pylori</i> and NSAIDs are independent risk factors for peptic ulcers, so eradication will not remove all risk Do not use clarithromycin, metronidazole or quinolone if used in the past year for any infection.	Penicillin allergy Oral PPI PLUS Oral Clarithromycin AND Oral Metronidazole	Adults:	500mg BD 400mg BD	MALToma 14 days	
	Penicillin allergy: use PPI PLUS clarithromycin PLUS metronidazole. If previous clarithromycin, use PPI PLUS bismuth salt PLUS metronidazole PLUS tetracycline hydrochloride.	• Oral Metronidazole	Children:	BNF for children		
	Relapse and previous metronidazole and clarithromycin: use PPI PLUS amoxicillin PLUS either tetracycline OR levofloxacin (if tetracycline not tolerated).	Penicillin allergy and previous clarithromycin Oral PPI PLUS				
	Retest for <i>H. pylori</i> : post DU/GU, or relapse after second-line therapy, using UBT or SAT, consider referral for endoscopy and cultures.	 Oral Bismuth Subsalicylate AND Oral Metronidazole AND Oral Tetracycline hydrochloride 	Adults:	525mg QDS 400mg BD 500mg QDS	First line 7 days	
		Relapse	Children:	BNF for children	Relapse 10 days	
		Oral PPI PLUS Oral Amoxicillin AND Either Oral levofloxacin OR Oral Tetracycline hydrochloride	Adults: Children:	1g BD 250mg BD 500mg QDS	MALToma 14 days	
		Third line on advice Oral PPI PLUS Oral Bismuth Subsalicylate AND Either: 2 antibiotics as above not previously used OR	Adults:	525mg QDS	10 days	
		Rifabutin ORFurazolidone		150mg BD 200mg BD		

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Traveller's diarrhoea	Prophylaxis rarely, if ever, indicated. Prophylactic antibiotics should not be recommended for most travellers. Travellers may become colonized with extended-	Standby: Oral: Azithromycin	Adults:	500mg OD	1-3 days	PHE context references and rationale Oct 2018
	spectrum β-lactamase (ESBL)—producing bacteria, and this risk is increased by exposure to antibiotics while abroad. Consider standb y antimicrobial only for patients at high risk of	Prophylaxis/treatment: Oral: Bismuth subsalicylate	Adults:	2 tablets QDS	2 days	Oct 2018
Threadworm	severe illness, or visiting high-risk areas. Treat all household contacts at the same time. Advise hygiene measures for 2 weeks (hand hygiene; pants at night; morning shower, including perianal area). Wash sleepwear, bed linen, and dust and vacuum.	Oral: Mebendazole Not licensed for use in children under 2 years	Adults & Children over 6 months:	100 mg for 1 dose; If reinfection occurs, second dose may be needed after 2 weeks.	STAT dose	PHE context references and rationale Oct 2018
	Child <6 months, add perianal wet wiping or washes 3 hourly.	Hygiene measure only for at least 6 weeks	Children u	nder 6 months OR Pregnant (first trimester)	Nov 2017
Clostridioides difficile (formerly Clostridium	For suspected or confirmed <i>C. difficile</i> infection, see Public Health England's guidance on diagnosis and reporting. Assess: whether it is a first or further episode, severity of infection, individual risk factors for complications or recurrence	First line for first episode of mild, moderate or severe infection: Oral: Vancomycin	Adults:	125mg QDS	10 days	NICE NG199, Published Nov 2019 NICE NG199 visual
difficile)	(such as age, frailty or comorbidities). Existing antibiotics : review and stop unless essential. If still essential, consider changing to one with a lower risk of <i>C. difficile</i> infection.	Second line for first episode of mild, moderate or severe if vancomycin: Oral: Fidaxomicin (very high cost)	Adults:	200mg BD	10 days	- summary
	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 are dehydrated (such as NSAIDs).	Consult local microbiologist For further episode within 12 weeks of symptom resolution (relapse):				
	Do not offer antimotility medicines such as loperamide. Offer an oral antibiotic to treat suspected or confirmed <i>C. difficile</i> infection.	Oral: Fidaxomicin (very high cost) Consult local microbiologist	Adults:	200mg BD	10 days	
	For adults, consider seeking prompt specialist advice from a microbiologist or infectious diseases specialist before starting treatment.	For further episode more than 12 weeks of symptom resolution (recurrence):				
	For children and young people, treatment should be started by, or after advice from, a microbiologist, paediatric infectious diseases specialist or paediatric gastroenterologist.	Oral: Vancomycin	Adults:	125mg QDS	10 days	
	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.	Oral: Fidaxomicin (very high cost) Consult local microbiologist	Adults:	200mg BD	10 days	
		For alternative antibiotics if first- and infection seek specialist advice (see		e antibiotics are ineffective or for life-threamary)	atening	Mar 2022

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Acute diverticulitis	 Self-care advice: If patient is systemically well, consider not prescribing antibiotics, offer diet and lifestyle advice (see NICE guidance for recommendations), and advise the person to re-present if symptoms persist or worsen. Offer antibiotics if systemically unwell or immunosuppressed or with significant comorbidities but does not meet the criteria for referral for suspected complicated acute diverticulitis 	First line: Co-amoxiclav (Penicillin based antibiotic)	Adults:	625mg TDS	5 days (a longer course may be needed based on clinical assessment)	NICE NG147, Published Nov 2019 NICE NG147 visual summary
	 *Only prescribe ciprofloxacin if switching from IV ciprofloxacin with specialist advice, consider safety issues Advise on the use of analgesia, such as paracetamol as-needed. Advise the patient to avoid NSAIDs and opioid analgesia (such as codeine) if possible, due to the potential increased risk of diverticular perforation (see CKS for further information) 	Alternative if co-amoxiclav unsuitable: Cefalexin (caution in penicillin allergy) AND Metronidazole OR	Adults:	500mg BD or TDS (up to 1-1.5g TDS/QDS in severe infection) 400mg TDS		
	 Recommend clear liquids only, with a gradual reintroduction of solid food if symptoms improve over the following 2–3 days (CKS) Consider checking bloods for raised white cell count and CRP, 	Trimethoprim AND Metronidazole OR	Adults: Adults:	200mg BD 400mg TDS	5 days (a longer course may be needed based on	
	 which may suggest infection (CKS) If the person is managed in primary care, arrange a review within 48 hours, or sooner if symptoms worsen. Arrange urgent hospital admission if symptoms persist or deteriorate despite management in primary care. Consider arranging referral to a specialist in colorectal surgery if a person is managed in primary care and has frequent or severe recurrent episodes of acute diverticulitis. 	Ciprofloxacin (only if switching from IV ciprofloxaicin with specialist advice; consider safety issues) AND Metronidazole	Adults:	500mg BD 400mg TDS	clinical assessment)	

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
GENITAL TRACT	INFECTIONS					
STI screening	People with risk factors should be screened for chlamydia, gonorrh Risk factors: under25 years; no condom use; recent/frequent chan			GUM.		PHE context references and rationale Oct 2018 Nov 2017
Chlamydia trachomatis/ urethritis	Opportunistically screen all patients aged 15 to 24 years. Treat partners and refer to GUM. Test positives for reinfection at 3 months.	First line: Oral: Azithromycin OR	Adults:	1g STAT	STAT dose	PHE context references and rationale Oct 2018
	Pregnant/breastfeeding : azithromycin is most effective. As lower cure rate in pregnancy, test for cure at least 3 weeks after end of	Oral: Doxycycline	Adults:	100mg BD	7 days	BASHH guidelines
	treatment.	Pregnant or Breastfeeding Oral: Azithromycin OR	Adults:	1g STAT	STAT dose	
		Oral: Erythromycin	Adults:	500mg BD or 500mg QDS	7 days 14 days	
		Oral: Amoxicillin (Penicillin based antibiotic)	Adults:	500mg TDS	7 days	Oct 2018
Epididymitis	Usually due to Gram-negative enteric bacteria in men over 35 years with low risk of STI.	Oral: Doxycycline OR	Adults:	100mg BD	10 – 14 days	PHE context references and rationale Oct 2018
	If under 35 years or STI risk, refer to GUM	Oral: Ofloxacin (consider safety issues)	Adults:	200mg BD	14 days	
		OR Oral: Ciprofloxacin (consider safety issues)	Adults:	500mg BD	10 days	Nov 2017
Vaginal candidiasis	All topical and oral azoles give over 80% cure. Pregnant: avoid oral azoles, the 7 day courses are more effective than shorter ones.	First line: Topical: Clotrimazole Pessary OR	Adults:	500mg vaginal pessary STAT	STAT	PHE context references and rationale Oct 2018
	Recurrent (>4 episodes per year): 150mg oral fluconazole every 72 hours for 3 doses induction, followed by 1 dose once a week	Topical: Fenticonazole Vaginal capsules (Pessary)	Adults:	600mg vaginal capsules (Pessary) STAT	STAT	BASHH guidelines
	for 6 months maintenance.	OR Topical: Clotrimazole Pessary	Adults:	100mg vaginal pessary	6 nights	
		Oral: Fluconazole (not in pregnancy)	Adults:	150mg STAT	STAT	
		Recurrent (>4 episodes per year): Oral: Fluconazole (not in pregnancy)	Adults:	150mg every 72 hours THEN 150mg once a week	3 doses 6 months	Oct 2018

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	References & Useful links
Bacterial vaginosis	Oral metronidazole is as effective as topical treatment, and is cheaper. 7 days results in fewer relapses than 2g stat at 4 weeks. Treating partners does not reduce relapse.	First line: Oral: Metronidazole	Adults:	400mg BD or 2g STAT (this dose not recommended in pregnancy)	7 days STAT	PHE context references and rationale Oct 2018
	Pregnant/breastfeeding: avoid 2g dose.	Second Line: Topical: Metronidazole 0.75% vaginal gel	Adults:	5g applicator at night	5 nights	
		OR Topical: Clindamycin 2% cream	Adults:	5g applicator at night	7 nights	Nov 2017
Genital herpes simplex virus (HSV)	 Advise: Self-care: Clean the affected area with plain or salt water Apply Vaseline or a topical anaesthetic to lesions to help with painful micturition, if required. Increase fluid intake to produce dilute urine (which is less painful 	First line Oral: Aciclovir	Adults:	400mg TDS	5 days	PHE context references and rationale Oct 2018
	to void). Urinate in a bath or with water flowing over the area to reduce stinging. Avoid wearing tight clothing, which may irritate lesions. Take adequate pain relief.	Second line Oral: Valaciclovir OR	Adults:	500mg BD	5 days	
	Discuss transmission. First episode: Oral antivirals are the primary treatment for genital herpes simplex infection — treatment should commence within 5 days of the start of the episode, or while new lesions are forming for people with a first clinical episode of genital herpes simplex virus (HSV) and refer to GUM.	Oral: Famciclovir	Adults:	250mg TDS	5 days	
	BASHH recommends five days of antiviral treatment for primary genital HSV, as there is no evidence of benefit for treatment longer than this period [BASHH, 2014]. However, the WHO recommends that 10 days treatment should be provided, as follow-up visits may not be possible and symptoms of the first clinical episode may be prolonged	Recurrent Oral: Aciclovir OR	Adults:	800mg TDS	2 days	
	[WHO, 2016]. Recurrent: self-care if mild, or immediate short course antiviral treatment, or suppressive therapy if more than 6 episodes per year.	Oral: Famciclovir	Adults:	1g BD	1 day	Nov 2017

Infection	Comments	Medications		ADULT dose for child's doses click on for childen	Duration of treatment	References & Useful links
Gonorrhoea	Antibiotic resistance is now very high. Use IM ceftriaxone and oral azithromycin; refer to GUM. Test of cure is essential.	IM: Ceftriaxone AND Oral: Azithromycin	Adults:	500mg IM STAT 1g STAT	STAT STAT	PHE context references and rationale Oct 2018 Nov 2017
Pelvic inflammatory disease	Refer women and sexual contacts to GUM. Raised CRP supports diagnosis, absent pus cells in HVS smear good negative predictive value. Exclude: ectopic, appendicitis, endometriosis, UTI, irritable bowel, complicated ovarian cyst, functional pain. Moxifloxacin has greater activity against likely pathogens, but always culture for	First Line Oral: Metronidazole PLUS Oral: Ofloxacin OR Oral: Moxifloxacin	Adults:	400mg BD 400mg BD 400mg OD	14 days 14 days 14 days	PHE context references and rationale Oct 2018
gonorrhoea and chlamydia, and test for Mycoplasma genitalium. If gonorrhoea likely (partner has it; sex abroad; severe symptoms), use regimen with ceftriaxone, as resistance to quinolones is high.	Gonorrhoea suspected IM: Ceftriaxone AND Oral: Metronidazole AND Oral: Doxycycline	Adults:	500mg IM STAT 400mg BD 100mg BD	STAT 14 days 14 days	Oct 2018	
Trichomoniasis	Oral treatment needed as extravaginal infection common. Treat partners, and refer to GUM for other STIs. Pregnant/breastfeeding: avoid 2g single dose metronidazole	<u>First Line</u> Oral: Metronidazole	Adults:	400mg BD (better tolerated dose) or 2g (dose associated with more adverse effects)	5-7 days STAT	PHE context references and rationale Oct 2018
	Offer Clotrimazole for symptom relief (not cure) if metronidazole declined/ contra-indicated.	Symptom relief (not cure)/pregnancy Topical: Clotrimazole	Adults:	100mg pessary at night	6 nights	Nov 2017

Infection	Comments	Medications		ADULT dose ild's doses click on	Duration of treatment	References & Useful links
SKIN INFECTION	IS					
Impetigo	Localised non-bullous impetigo: Hydrogen peroxide 1% cream (other topical antiseptics are	Topical antiseptic:				NICE NG153, Published Feb 2020
	available but no evidence for impetigo). If hydrogen peroxide unsuitable or ineffective, short-course topical antibiotic.	Hydrogen peroxide 1%	Adults and Children:	BD or TDS	5 days*	
	Widespread non-bullous impetigo:	First choice topical antibiotic if hydroge ineffective:	en peroxide unsu	iitable (e.g. impetigo is aroun	nd eyes) or is	
	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.	Fusidic acid 2% cream Alternative topical antibiotic if fuside a	Adults and Children: cid resistance co	TDS onfirmed	5 days*	
	Bullous impetigo, systemically unwell, or high risk of complications: Short-course oral antibiotic.	Mupirocin 2%	Adults and Children:	Thinly TDS	5 days*	
	Do not offer combination treatment with a topical and oral antibiotic to treat impetigo (not more effective, risk adverse effects and resistance).	Oral antibiotic:		Less one		
	5 days is appropriate for most, can be increased to 7 days based on clinical judgement.	First choice: flucloxacillin	Adults Children:	500mg QDS	5 days	
	Consider referral to specialist or hospital if: Symptoms or signs suggest serious illness e.g. cellulitis Immunocompromised patient with widespread impetigo	Penicillin allergy or flucloxacillin unsuitable:	Adults	250mg BD	_	
	Bullous impetigo in babiesImpetigo recurring frequently	clarithromycin OR erythromycin (in pregnancy)	Children: Adults	ENF for children 250 to 500mg QDS		
	Systemically unwellHigh risk of complications	erythromychi (iii pregnancy)	Children:	BNF for children		
	For detailed information click on the visual summary. If PVL-SA (Panton-Valentine leucocidin Staphylococcus aureus) suspected see below.	If MRSA suspected or confirmed – consu	ult local microbio	logist		July 2020
Cold sores	Most resolve after 5 days without treatment. Topical antivirals triggers: consider oral prophylaxis: Aciclovir 400 mg, twice daily		on by 12 to 18 h	ours. If frequent, severe, an	nd predictable	PHE context references and rationale Oct 2018 Nov 2017

Infection	Comments	Medications		ADULT dose ild's doses click on	Duration of treatment	References & Useful links	
PVL-SA (Panton- Valentine leucocidin Staphylococcus	Panton-Valentine leukocidin (PVL) is a toxin produced by 20.8 to 46% of <i>S. aureus</i> from boils/abscesses. The toxin destroys white blood cells. PVL strains are rare in healthy people, but severe. Suppression therapy should only be started after primary infection has resolved, as suppression therapy is ineffective if lesions are still leaking.						
aureus)						PHE management of PVL-SA, Nov 2008	
	 The person: Is immunocompromised, is known to be of the person of the per			Nov 2017			
Infected Eczema	If not systemically unwell, do not routinely offer either a topical or oral antibiotic.	Topical antibiotic (if a topical is approp	riate). For localis	sed infections only:		NICE NG190, Updated	
	, ,	First line: fusidic acid 2%	Adults and children:	TDS	5 – 7 days	NICE NG 190 visusal	
	If systemically unwell offer an antibiotic. Symptoms and signs of secondary bacterial infection can include: weeping, pustules, crusts, no response to	Oral antibiotic:				summary	
	treatment, rapidly worsening eczema, fever and malaise. Not all flares are caused by a bacterial infection, so will not respond to antibiotics. Eczema is often colonised with bacteria but may not be clinically	First line: Flucloxacillin	Adults: Children:	500mg QDS			
int Do se as an de If an se pr	infected. Do not routinely take a skin swab at initial presentation. Consider sending a skin swab if the infection is worsening or not improving as expected. If the infection recurs frequently, send a skin swab and consider taking a nasal swab and starting treatment for decolonisation.	If flucloxacillin unsuitable: Clarithromycin	Adults: Children:	250mg BD	5 – 7 days		
	If an antibiotic is offered, when choosing between a topical or oral antibiotic, take account of patient preferences, extent and severity of symptoms or signs, possible adverse effects, and previous use of topical antibiotics because antimicrobial resistance can develop rapidly with extended or repeated use.	If flucloxacillin unsuitable and pregnant: Erythromycin	Adults: Children:	250mg – 500mg QD			
	Consider referral or seeking specialist advice if the person has spreading infection that is not responding to oral antibiotics, is systemically unwell, is at high risk of complications, has infections that recur frequently. If there are symptoms or signs of cellulitis, see this section of the guideline. If MRSA or PVL-SA suspected or confirmed – consult local microbiologist.						
	Refer to hospital if there are symptoms or signs suggesting a more serious illness or condition such as necrotising fasciitis or sepsis.					July 2021	

Infection	Comments	Medications	for	ADULT dose child's doses click on	Duration of treatment	References & Useful links
Acne vulgaris	Mild to moderate acne, this includes people who have 1 or	Any severity (topical treatment)				
(page 1 of 2)	more of:	Combination of adapalene/benzoyl	Adults:	Apply thinly in the evening		NICE NG198, Updated
" " ,	 any number of non-inflammatory lesions (comedones) 	peroxide 0.1%/2.5% or 0.3%/2.5%		once a day		2023
	 up to 34 inflammatory lesions (with or without non- 		Children 9+	BNF for children		
	inflammatory lesions)	OR	years: †	for children		CKS Acne vulgaris
	o up to 2 nodules					
	Moderate to severe acne, this includes people who have either	Combination of tretinoin / clindamycin	Adults:	Apply thinly in the evening		
	or both of:	0.025%/1% OD	Children	once a day		
	o 35 or more inflammatory lesions (with or without non-	OR	Children	BNF for children		
	inflammatory lesions)	OR	12+ years:	for children		
	o 3 or more nodules	If above contraindicated / refused	Adults:	OD or BD	Assess after 12	
	Self-care advice:	Benzoyl peroxide 5%	Addits.	00 01 00	weeks	
	Wash with non-alkaline synthetic detergent cleansing product (a.g. Davie ar Avegage mainturing bar) twice daily do not	Benzoyi peroxide 3%	Children	PME		
	(e.g. Dove® or Aveeno® moisturising bar) twice daily; do not scrub; avoid make-up.		12+ years:	BNF for children		
	Patient information from the British Association of		12. years.			
	Dermatologist is available here.	Mild to moderate (topical treatment)				
	Do not use the following to treat acne;					
	o monotherapy with a topical antibiotic	Combination of benzoyl	Adults:	Apply thinly in the evening		
	o monotherapy with an oral antibiotic	peroxide/clindamycin) 3%/1% or		once a day		
	o combination of a topical and oral antibiotic	5%/1%	Children	RMS		
	o minocycline as per SWL Position Statement		12+ years:	BNF for children		
	Give clear information tailored to patient needs and concerns.	Moderate to severe (topical PLUS oral				
	Topics to cover include:	<u>treatment)</u>				
	o possible reasons for their acne					
	 treatment options, including OTC treatments if appropriate 	Topical treatment				
	 benefits and drawbacks of treatment 					
	o potential impact of acne	Combination of adapalene/benzoyl	Adults:	Apply thinly once daily, in the		
	o importance of adhering to treatment, as positive effects and	peroxide 0.1%/2.5% or 0.3%/2.5%	Children	evening		
	take 6-8 weeks to become noticeable	OR	Children	BNF for children		
	o relapses during and after treatment, including when to	OK .	12+ years:	io omacii		
	obtain further advice, and treatment options should a	Azelaic acid * 15% gel or 20% cream	Adults:	BD		
	relapse occur	Azeidie deid 13/0 get of 20/0 crediti	Addits.	55	Assess after 12	
	Refer to a consultant dermatologist if any of the following	AND	Children	BNF	weeks	
	apply: o there is diagnostic uncertainty		12+ years:	for children	WCCKS	
	o they have acne conglobata	Oral treatment	'			
	o they have nodulo-cystic acne					
	they have acne fulminans (urgent referral to hospital)	Lymecycline	Adults:	408mg OD		
	dermatology team to be assess within 24 hours)		Children			
	Consider referring to a consultant dermatologist if they have:	OR	12+ years:	for children		
	 mild to moderate acne that has not responded to two 		,			
	courses of treatment	Doxycycline	Adults:			
	o moderate to severe acne which has not responded to			100mg OD		
	previous treatment that contains an oral antibiotic		Children	BNF		
	 acne with scarring (continued next page) 		12+ years:	for children		I 2024
						Jan 2024

		Medications	ADULT dose for child's doses click on	Duration of treatment	References & Useful links
	o acne contributing to persistent psychological distress or a mental health disorder To reduce risk of skin irritation with topical treatments, start with alternate-day or short contact application (e.g. wash off after an hour). If a person receiving treatment for acne wishes to use hormonal contraception, consider using the combined oral contraceptive pill in preference to the progestogen-only pill Review treatment at 12 weeks and in those whose treatment includes an oral antibiotic, consider continuing treatment for up to 12 more weeks if their acne has not completely cleared	Alternative if above are contraindicated or refused (oral treatment) Erythromycin OR Clarithromycin OR Trimethoprim (following Consultant advice, off-label**)	Adults: 500mg BD Children	Assess after 12 weeks	NICE NG198, Updated 2021 CKS Acne vulgaris
	exceptional circumstances. Review every 12 weeks and stop as soon as possible. If acne fails to respond adequately to a 12 week course of a first-line treatment option and at review the severity is: o mild to moderate: offer another option from the table of treatment choices. If mild to moderate acne fails to respond adequately to 2 different 12 week courses of treatment options, consider referral to a consultant dermatologist-led team o moderate to severe, and the treatment did not include an oral antibiotic: offer another option which includes an oral antibiotic from the table of treatment choices moderate to severe, and the treatment included an oral	Children under 12 years Combination of adapalene/benzoyl peroxide 0.1%/2.5% OR if above contraindicated or refused† Benzoyl peroxide 5% AND IF NEEDED Erythromycin OR Clarithromycin	Children 9+ years: Children: OD - BD SNF for children Children: 500mg BD Children: Children: 250mg BD (weight ≥ 30kg)	Review at 6-8 weeks. Continue for 3 months max	
**************************************	not tolerated, or if 1 component of the combination is contraindicated, consider topical monotherapy with adapalene, azelaic acid, or benzoyl peroxide Review maintenance treatments for acne after 12 weeks to decide if they should continue. Tuseful in reducing risk of hyperpigmentation in individuals with larker skin *See the General Medical Council's Good practice in prescribing and managing medicines and devices for further information *NB: Changes made following IMOC to provide clarity	Pregnant women Combination of Benzoyl peroxide / clindamycin 3%/1% or 5%/1% (to be used with caution) OR if above contraindicated or refused # Benzoyl peroxide 5% (alone) AND IF ORAL TREATMENT IS NEEDED Benzoyl peroxide 5% WITH Erythromycin (preferred in pregnancy) OR Clarithromycin	Adults: Apply thinly once daily, in the evening Adults: OD or BD Adults: OD or BD Adults: 500mg BD Adults: 250mg BD	Review at 6-8 weeks. Continue for 3 months max	Mar 2022

Infection	Comments	Medications	for	ADULT dose child's doses click on	Duration of treatment	References & Useful links
Cellulitis and erysipelas	Exclude other causes of skin redness (inflammatory reactions or non-infectious causes e.g. chronic venous insufficiency) Consider marking extent of infection with a single-use surgical marker pen.	First line: Oral: Flucloxacillin (Penicillin based antibiotic)	Adults: Children:	500mg to 1g QDS		NICE NG141, Updated 2019 NICE NG19, visual summary
	 When choosing an antibiotic, take account of: The severity of infection The site of infection The risk of uncommon pathogens Any microbiological results and MRSA status, if known 	Penicillin allergy or flucloxacillin unsuitable: Oral: Clarithromycin OR Oral: Doxycycline	Adults: Children: Adults:	500mg BD Significant States (See See See See See See See See See Se	5-7 days;	
	Consider a swab for microbiological testing, but only if skin broken and risk of uncommon pathogen. When prescribing antibiotics for a cellulitis and erysipelas, give advice about Possible side effects of the antibiotic(s) Skin will take time to return to normal after finishing the	Penicillin allergy (in pregnancy): Oral: Erythromycin	Adults: Children:	500mg QDS		
	 antibiotics and full resolution at 5-7 days is not expected Seeking medical help if symptoms worsen rapidly or significantly at any time, or do not start to improve within 2 to 3 days. Reassess if: Symptoms worsen rapidly, or do not start to improve in 2 to 3 days The person is very unwell, has severe pain, or redness or swelling beyond the initial presentation 	If infection near the eyes or nose consider discussing with microbiologist Oral: Co-amoxiclav (Penicillin based antibiotic) Penicillin allergy or co-amoxiclav unsuitable: Oral: Clarithromycin	Adults: Children: Adults: Children:	500/125mg TDS SNF for children 500mg BD	7 days	
	Refer to hospital if there are symptoms or signs of a more serious illness or condition such as orbital cellulitis, osteomyelitis, septic arthritis, necrotising fasciitis or sepsis. Consider referring or seeking specialist advice if the person: Is severely unwell or has lymphangitis Has infection near the eyes or nose	AND Oral Metronidazole	Adults: Children:	400mg TDS		
	 May have uncommon pathogens Has spreading infection not responding to oral antibiotics Cannot take oral antibiotics (to explore giving IV antibiotics at home or in the community if appropriate) If there has been river or sea water exposure 	MRSA infection suspected or confirme	ed or IV antib	iotics required discuss with micr	obiologist	
	Do not routinely offer antibiotic prophylaxis to prevent recurrent cellulitis or erysipelas. Discuss any tiral of antibiotic prophyalxis to ensure shared decision making and choose: • Phenoxymethylpenicillin 250mg twice a day, or • Erythromycin 250mg twice a day for penicillin allergy Review at least every 6 months.					July 2020

Infection	Comments	Medications ADULT dose for child's doses click on		Duration of treatment	References & Useful links
Leg Ulcers	Comments Manage any underlying conditions to promote ulcer healing. Only offer an antibiotic when ther are symptoms or signs of infection (such as redness or swelling spreading beyond the ulcedr, localised warmth, increase pain or fever). Few leg ulcers are clinically infected but most are colonised by bacteria. When prescribing antibiotics, take account of severity, risk of complications and previous antibiotic use. Do not take a sample for microbiological testing at initial presentation, even if the ulcer might be infected as most leg ulcers are colonised by bacteria. Give advice to seek medical help if symptoms or signs of infection: Worsen rapidly or significantly at any time, or Do not start to improve within 2 to 3 days of starting treatment Person becomes systemically unwell or has severe pain out of proportion to the infection If the infection is worsening, or not improving as expected, consider microbiological testing. When microbiological results are available: Review the antibiotic and change according to results if infection is not improving, using a narrow spectrum antibiotic if possible. Consider referring or seeking specialist advice if the person: Has a higher risk of complications because of comorbidities such as diabetes or immunosuppression Has lymphangitis Has spreading infection not responding to oral antibiotics Cannot take oral antibiotics Has a severe infection warranting the use of IV antibiotics MRSA colonised/infection in last 24 months	First line: Oral: Flucloxacillin (Penicillin based antibiotic) Penicillin allergy or flucloxacillin unsuitable: Oral: Doxycycline OR Oral: Clarithromycin OR Penicillin allergy or flucloxacillin unsuitable (in pregnancy): Oral: Erythromycin Second line: Oral: Co-amoxiclav Penicillin allergy or co-amoxiclav unsuitable Oral: Co-trimoxazole	Adults: 500mg – 1g QDS (1g dose is off-label use*) Adults: 200mg on day 1, then 100mg OD (can be increased Adults: to 200mg daily) 500mg BD Adults 500mg QDS Adults: 625mg TDS Adults: 960mg BD	7 days	NICE NG152, Updated 2020 NICE NG152, visual summary
	Refer to existing pathways for administration of iv antibiotics if appropriate *See the General Medical Council's Good practice in prescribing and managing medicines and devices for further information. Recommended for obese/severely obese patients.				July 2020

Infection	Comments	Medications	ADULT dose	Duration of	References &
meetion	Comments	ivieuications	for child's doses click on	treatment	Useful links
Diabetic foot	All diabetic foot wounds are likely to be colonised with bacteria.	Mild infection			
	Do not offer antibiotics to <i>prevent</i> diabetic foot infections.	<u>First line</u>			NICE NG19, Updated
	Diabetic foot infection has at least 2 of:	Oral: Doxycycline	Adults: 200mg on first day, then	7 days then	2019
	Local swelling or induration		100mg OD (can be increased	review (full	
	Erythema	OR	to 200mg OD)	resolution is	NICE NG19, visual summary
	Local tenderness or pain	Oral: Clarithromycin	Adults:	not expected);	
	Local warmth	AND	500mg BD	if slow	
	Purulent discharge	Oral: Metronidazole	Adults:	response,	
	Start antibiotic treatment as soon as possible. Take samples for		400mg TDS	continue for a	
	microbiological testing before, or as close as possible to, the start	(In pregnancy):		further 7 days.	
	of treatment.	Oral: Erythromycin	Adults:		
	When choosing an antibiotic, take account of:	AND	500mg QDS		
	The severity of infection	Oral: Metronidazole	Adults:		
	The risk of complications	Oral. Wetromaazoie			
	Previous microbiology results		400mg TDS		
	Previous antibiotic use				
	Patient preference Soverity is classed as:	Moderate infection			
	Severity is classed as:	<u>First line</u>			
	 Mild = local infection with 0.5cm to less than 2cm erythema Moderate = local infection with more than 2cm erythema or 	Oral: Co-amoxiclav	Adults: 625mg TDS*	Minimum 7	
	involving deeper structures (e.g. abscess, osteomyelitis,	(Penicillin based antibiotic)		days and up	
	septic arthritis or fasciitis).	AND		to 6 weeks for	
	Severe = local infection with signs of a systemic inflammatory	Oral: Metronidazole	Adults: 400mg TDS	osteomyelitis.	
	response				
	Refer to hospital immediately and Inform multidisciplinary foot	Penicillin allergy:			
	care service if severe infection with limb or life threathening	Oral: Co-trimoxazole (off-label	Adults: 960mg BD		
	problems e.g ulceration with fever/any signs of sepsis /limb	indication, see BNF for patient	_		
	ischaemia, suspected deep-seated soft tissue or bone infection,	monitoring parameters)			
	gangrene). For all other active diabetic foot problems, refer to foot	AND			
	service within 1 working day.	Oral: Metronidazole	Adults: 400mg TDS		
	Seek Microbiologist advice when prescribing antibiotics for a				
	suspected diabetic foot infection in	If Pseudomonas aeruginosa			
	 children and young people under 18 years. 	suspected or confirmed discusss			
	MRSA infection suspected or confirmed	with Microbiologist			
	IV treatment required	With Microsiologist			
	When prescribing antibiotics for a diabetic foot infection, give	Oral: Clindamycin	Adults: 150 to 300mg QDS (can be		
	advice about	AND	increased to 450mg QDS)		
	 Possible side effects of the antibiotic(s) 	Oral: Ciprofloxacin (consider safety	Adults: 500mg BD		
	Seeking medical help if symptoms rapidly or significantly at		Addits. Journg DD		
	any time, or do not start to improve within 1 to 2 days.	issues)			
	Reassess if symptoms rapidly or significantly at any time, or do not				
	start to improve within 1 to 2 days. Take account of:				
	Other possible diagnoses, such as pressure sores, gout or				
	non-infected ulcers				
	Symptoms or signs suggesting something more serious such				
	as limb ischaemia , osteomyelitis, necrotising fasciitis or				July 2020
	sepsis				341, 2320
	Previous antibiotic use				

Infection	Comments	Comments Medications ADULT dose for child's doses click of		Duration of treatment	References & Useful links
Bites (Human and Animal)	Seek specialist advice from a microbiologist for bites from a wild or exotic animal (including birds and non-traditional pets) or domestic animal bites (including farm animal bites) you are unfamiliar with. Manage the wound with irrigation and debridement as necessary Offer an antibiotic treatment course for human or animal bites if there are symptoms or signs of infection, such as: Increased pain Inflammation,	First line: Prophylaxis/treatment for both Human and Animal bites: Oral: Co-amoxiclav (Penicillin based antibiotic)	Adults: 375 mg - 625mg Children: SNF for children	TDS 3 days for prophylaxis 5 days for treatment*	NICE NG184 Updated 2020 NICE NG184, visual summary
	 Fever, Discharge or An unpleasant smell Take a swab for microbiological testing if there is discharge (purulent or non-purulent) from the wound 	Alternative to co-amoxiclav for adults and young people aged 12 to 17 years Oral: Metronidazole	Adults: 400mg TDS Children:	3 days for prophylaxis	
	Do not offer antibiotic prophylaxis if a human or animal bite has not broken the skin. Human bite Offer antibiotic prophylaxis if the human bite has broken the skin and drawn blood. Consider antibiotic prophylaxis if the human bite has broken the skin but not drawn blood if it is in a high-risk area or person at high risk (see below).	AND Oral: Doxycyline	Adults: 200mg STAT ther Children: 200mg OD	5 days for	
	Cat bite Offer antibiotic prophylaxis if the cat bite has broken the skin and drawn blood. Consider antibiotic prophylaxis if the cat bite has broken the skin but not drawn blood if the wound could be deep. Dog or other traditional pet bite (excluding cat) 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	Alternative in pregnancy Alternative to co-amoxiclav for children under 12 years Co-trimoxazole (off-label – consider safety issues)	Seek specialist advice Children: SNF tor children	3 days for prophylaxis 5 days for treatment*	
	and drawn blood if it is in a high risk area or person at high risk. High-risk areas include the hands, feet, face, genitals, skin overlying cartilaginous structures or an area of poor circulation People at high risk include those at risk of a serious wound infection because of a co-morbidity (such as diabetes, immunosuppression, asplenia or decompensated liver disease) Assess the risk of tetanus, rabies or a bloodborne viral infection and take appropriate action. Consider referral or seeking specialist advice if, for example, the person: Is systemically unwell Has an infection after prophylactic antibiotic				
	 Cannot take or has an infection that is not responding to oral antibiotics *can be increased to 7 days based on assessment of wound 				Jul 2021

Infection	Comments	Medications	ADULT dose for child's doses click on	Duration of treatment	References & Useful links
Bites (Insect)	Self-care advice: Oral antihistamines and topical treatments are available from the pharmacy Avoid scratching to reduce risk of infection Redness and itching are common and may last up to 10 days Treat only if sign of infection, as most cases are self-limiting; most insect bites or stings will not need antibiotics Be aware that a rapid onset skin reaction is more likely to be an inflammatory or allergic reaction rather than an infection Consider referral or seeking specialist advice for people if: they are systemically unwell they are severely immunocompromised, and have symptoms or signs of an infection they have had a previous systemic allergic reaction to the same type of bite or sting the bite or sting is in the mouth or throat, or around the eyes it has been caused by an unusual or exotic insect they have fever or persisting lesions associated with a bite or sting that occurred while travelling outside the UK Reassess if: symptoms or signs of an infection develop the person's condition worsens rapidly or significantly, or they become systemically unwell the person has severe pain out of proportion to the wound, which may indicate the presence of toxin-producing	Give self care advice – see comments	ction, see the recommendations on anti	piotic choice in the	NICE NG182 Updated 2020 NICE NG182, visual summary NICE CKS: Insect bites and stings
Scabies	 Take account of other possible diagnoses, such as Lyme disease indicated by erythema migrans First choice permethrin: Treat whole body from ear/chin downwards, and under nails. If using permethrin and patient is under 2 years, elderly or immunosuppressed, or if treating with malathion: also treat face and scalp. Treat all home and sexual contacts: treat within 24 hours 	First Line: Permethrin 5% cream Second Line: Malathion 0.5% aqueous liquid	Apply once weekly for 2 Adults and doses, then wash off afte 8–12 hours. If hands are washed with soap within hours of application, the should be treated again cream.	1 week apart	PHE context references and rationale Oct 2018
Mastitis	S. aureus is the most common infecting pathogen. Suspect if woman has: a painful breast; fever and/or general malaise; a tender, red breast. Breastfeeding: oral antibiotics are appropriate, where indicated. Advise the woman to continue breastfeeding if possible (including	First line: Oral: Flucloxacillin (Penicillin based antibiotic) Penicillin allergy:	Adults: 500mg QDS		PHE context references and rationale Oct 2018
	from the affected breast)	Oral: Erythromycin OR Oral: Clarithromycin	Adults: 250mg-500mg QDS Adults: 500mg BD		Nov 2017

Infection	Comments	Medications	ADULT dose for child's doses click on	Duration of treatment	References & Useful links
Dermatophyte infection: skin Including: • Tinea corporis (ringworm)	Most cases: use topical terbinafine as fungicidal, treatment time shorter than with fungistatic imidazoles. If candida possible, use imidazole. If intractable, or scalp: send skin scrapings, and if infection confirmed: use oral terbinafine or itraconazole. It should be noted that liver reactions have been reported 0.1 to 1% with oral antifungals	First Line: Topical: Terbinafine 1% cream	Adults and Apply thinly OD -BD Children:	1 -2 weeks then review	PHE context references and rationale Oct 2018
 Tinea pedis (athlete's foot) Tinea cruris (jock itch) Tinea faciei (facial ringworm) Tinea capitis (scalp ringworm) 	Scalp: oral therapy, and discuss with specialist.	Second Line: Topical: Imidazole e.g. Clotrimazole 1% cream OR For athlete's foot only Topical: Undecanoates (Mycota®)	Adults and Children: Apply BD – TDS Adults and Children: Apply BD	Continue use for 7 days after lesions have healed therefore a total of 4 – 6 weeks	
(scalp migworm)		If intractable, or scalp Oral: Terbinafine OR Oral: Itraconazole	Adults: 250mg OD Children: BNF for children Adults: 100mg OD Children: BNF for children	4-6 weeks 15 days then review	Oct 2018
Dermatophyte infection: nail	Take nail clippings; start therapy only if infection is confirmed. Oral terbinafine is more effective than oral azole. It should be noted that liver reactions have been reported 0.1 to 1% with oral antifungals. If candida or non-dermatophyte infection is confirmed, use oral itraconazole. Topical nail lacquer is not as effective. Stop treatment when continual, new, healthy, proximal nail growth	First Line Oral: Terbinafine Second line: Oral: Itraconazole	Adults: 250mg OD Children: Street For children Adults: 200mg BD for 7 days per month	Fingers: 6 wks Toes: 12 wks Fingers: 2 courses	PHE context references and rationale Oct 2018
	To prevent recurrence: apply weekly 1% topical antifungal cream to entire toe area. Children: seek specialist advice		[for children]	Toes: 3 course	Oct 2018

Infection	Comments	Medications	for	ADULT dose child's doses click on	Duration of treatment	References & Useful links
Varicella zoster (chicken pox) & Herpes Zoster (shingles)	Pregnant/immunocompromised/neonate: seek urgent specialist advice. Regardless of immune function and the use of any immunoglobulins, neonates with chickenpox should be treated with a parenteral antiviral to reduce the risk of severe disease.	If indicated: First line Oral: Aciclovir	Adults: Children:	800mg FIVE times a day	7 days	PHE context references and rationale Oct 2018
	Oral therapy in children is not recommended as absorption is variable. Chickenpox in otherwise healthy children between 1 month and 12 years is usually mild and antiviral treatment is not usually required	Second line for shingles if poor compliance:				
	Chickenpox: consider acyclovir if: onset of rash less than 24 hours, and 1 of the following: 14 years of age as Chickenpox is more severe in adolescents than in children; severe pain;	Oral: Famciclovir – not suitable for children (high cost drug)	Adults:	500mg TDS or 750mg BD	7 days	
	dense/oral rash;taking steroids;smoker	OR				
	Give paracetamol for pain relief Shingles: treat if >50 years, (Postherpetic neuralgia (PHN)rare if <50 years) and within 72 hours of rash, or 1 of the following: Active ophthalmic; Ramsay Hunt syndrome; Eczema; Non-truncal involvement; Moderate or severe pain; Moderate or severe rash. Shingles treatment if not within 72 hours: consider starting	Oral: Valaciclovir (high cost drug)	Adults: Children:	1g TDS BNF for children	7 days	
	antiviral drug up to 1 week after rash onset, if high risk of severe shingles or continued vesicle formation; older age; immunocompromised; or severe pain.					
						Oct 2018

Infection		Comments	Medications	for	ADULT dose child's doses click on	Duration of treatment	References & Useful links
Lyme disease with erythema migrans	0 0	Treat erythema migrans empirically; serology is often negative early in infection. For treatment of other Lyme disease presentations see NICE guidance/seek specialist advice. If symptoms worsen during treatment for Lyme disease, assess for an allergic reaction to the antibiotic. Be aware that a Jarisch–Herxheimer reaction (~15% of patients) does not usually warrant stopping treatment This causes a worsening of symptoms early in treatment	Lyme disease without focal symptoms but with erythema migrans and /or non-focal symptoms Oral: Doxycycline (For 9 years and above, unlicensed in under 12 years)	Adults: Children 6+ years:	200mg OD Or 100mg BD	21 days	NICE NG95 updated Oct 2018 PHE context references and rationale May 2021 CKS Lyme disease
	•	It can happen when large numbers of bacteria in the body are killed It does not happen to everyone treated for Lyme disease They should keep taking their antibiotics if their symptoms worsen and seek medical advice	Alternative if doxycycline is not suitable (e.g. pregnancy): Oral: Amoxicillin (Penicillin based antibiotic) Alternative if doxycycline and amoxicillin are not suitable:	Adults: Children:	1g TDS BNF for children	21 days	
			Oral: Azithromycin Do not use azithromycin to treat people with cardiac abnormalities associated with Lyme disease because of its effect on QT interval	Adults: Children:	500mg OD BNF for children	17 days	Jul 2022

Infection	Comments	Medications		ADULT dose child's doses click on	Duration of treatment	References & Useful links For MRSA screening
MRSA decolonisation (Suppression)	GPs may be asked to screen and decolonise patients e.g. a patient elects to have surgery outside their area. GPs should not be routinely asked to screen patients attending Croydon University Hospital (CUH). Croydon Health Services Trust (CHS) has pre-admission clinics to select and screen patients for MRSA and to de-colonise patients if they are MRSA positive. Screen positive results available after discharge CUH: The Department of Health recommends that (adult) patients found to be colonised with MRSA should be offered decolonisation treatment. Therefore the positive MRSA screen results available after a patient has been discharged will be faxed to a patient's GP (by the infection control team) with advice to offer the patient decolonisation treatment. To reduce persistent MRSA carriage, treat underlying skin conditions (e.g. eczema, dermatitis), remove and/or replace invasive devices and treat skin breaks. Where necessary, seek advice from Dermatologist (antiseptic detergents should be used with caution on patient with dermatitis). Use both nasal and skin regimens.					
	 Nasal: Apply pea-sized amount to inner surface of each nostril using a cotton wool bud. Patients should be able to taste mupirocin at back of throat. Prolonged (>5 days) or repeated courses (>2 per admission) must not be given because of the risk of the development of resistance. Mupirocin should not be given until a positive MRSA result is confirmed 	First Line: Topical: 2% Mupirocin nasal ointment (Bactroban®) If MRSA resistant to mupirocin: Topical: Chlorhexidine hydrochloride 0.1%+ Neomycin sulfate 0.5% nasal cream (Naseptin®) (NB avoid in patients with peanut allergy)	Adults:	TDS QDS	5 days 10 days	
	Skin – Topical antiseptic wash: Particularly apply to known carriage sites (axilla, groin & perineum). If possible wash hair twice weekly with antiseptic detergent. An ordinary shampoo can be used afterwards if required. After washing, use clean towels, sheets & clothing. Launder items separately from other family members, using as high a temperature as fabric allows	4% chlorhexidine gluconate (Hibiscrub®) antiseptic detergent Moisten skin and apply undiluted antiseptic detergent to all areas in the place of soap, leave for 3 minutes then rinse.	Adults:	Daily	5 days	
MRSA Treatment	Do not use clindamycin For active MRSA infection, confirmed by lab results Use antibiotic sensitivities to guide treatment. If severe infection or no response to monotherapy after 24-48 hours, seek advice from microbiologist on combination therapy and use of linezolid.	Doxycycline alone OR Trimethoprim	Adults:	100mg BD 200mg BD	7 days 7 days	

Infection	Comments	Medications		ADULT dose for child's doses click on for children	Duration of treatment	Referances & Useful links
EYE INFECTIONS						
Conjunctivitis	First line: bath/clean eyelids with cotton wool dipped in sterile saline or boiled (cooled) water, to remove crusting. Reassure the person that most cases of acute, infectious conjunctivitis are self-limiting and do not require antimicrobial treatment — viral (non-herpetic) conjunctivitis usually resolves within one to two weeks without treatment.	First line: If severe: Topical: Chloramphenicol 0.5% drop (can be purchased OTC in pharmacy) OR	Adults and Children over 1 month old:	Apply 1 drop to the effected eye every 2 hours then reduce frequency as infection is controlled to 3–4 times daily.	48 hours after resolution	PHE context references and rationale Oct 2018
	Treat only if severe, as most cases are viral or self-limiting. Bacterial conjunctivitis: usually unilateral and also self-limiting. It is characterised by red eye with mucopurulent, not watery discharge. 65% and 74% resolve on placebo by days 5 and 7. Advise the person that most cases of bacterial conjunctivitis are self-limiting and resolve within 5–7 days without treatment. Treat with topical antibiotics if severe or circumstances require rapid resolution. A delayed treatment strategy may be appropriate — advise the person to initiate topical antibiotics if symptoms have not resolved within 3 days. Arrange urgent assessment by ophthalmology if the person has: Ophthalmia neonatorum (sticky eye with redness in a neonate). Infection with a sexually transmitted pathogen is confirmed Suspected gonococcal or chlamydial conjunctivitis. Possible herpes infection. Suspected periorbital or orbital cellulitis. Severe disease, for example, corneal ulceration, significant keratitis or presence of pseudomembrane. Recent intraocular surgery. Conjunctivitis associated with a severe systemic condition such as rheumatoid arthritis or immunocompromised. Corneal involvement associated with soft contact lens use: Do not give antibiotics in the interim as this may interfere with corneal culture. Advise the person to take their contact lenses with them to eye casualty as special diagnostic tests may be required.	Topical: Chloramphenicol 1% ointment (Pregnancy and breastfeeding - Avoid chloramphenicol unless essential) (Neonates - Avoid chloramphenicol unless essential)	Adults and Children over 1 month old:	Apply daily, at night		
	Third line: Fusidic acid as it has less Gram-negative activity. Fusidic Acid (Fucithalmic®) 1% Viscous Eye Drops eye drop brand has been discontinued .This should be reserved as a treatment option for patients who: are pregnant or breastfeeding, have a personal or family history of blood dyscrasias (such as aplastic anaemia), are intolerant of chloramphenicol or patients that may require assistance in applying drops e.g. young children or elderly people (Fusidic acid requires twice daily administration).	Second line Topical: Fusidic acid 1% modified- release eye drops (High cost)	Adults & Children:	Apply twice daily	48 hours after resolution	Oct 2018

Infection	Comments	Medications		ADULT dose for child's doses click on for child's doses click on	Duration of treatment	Referances & Useful links
Blepharitis	First instance: lid hygiene for symptom control, including: warm compresses; lid massage and scrubs; gentle washing; avoiding cosmetics.	If indicated: First line Topical: Chloramphenicol 1% ointment	Adults & Children:	Apply twice daily	6 weeks trial	PHE context references and rationale Oct 2018
	Topical antibiotics if hygiene measures are ineffective after 2 weeks. Signs of meibomian gland dysfunction, or acne rosacea: consider oral antibiotics.	Second line Oral: Oxytetracycline	Adults Children:	500mg BD (initial) for 4 weeks then 250mg BD (maintenance) 8 weeks	4 weeks 8 weeks	
		OR				
		Oral: Doxycycline	Adults:	500mg BD (initial) for 4 weeks then 250mg BD (maintenance) 8 weeks	4 weeks 8 weeks	
			Children:	BNF for children		Nov 2017

Infection	Comments	Medications	ADULT dose for child's doses click on or children	Duration of treatment	Referances & Useful links			
DENTAL INFECTIONS TREATED IN PRIMARY CARE OUTSIDE DENTAL SETTING								
• 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.								

- 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 treatmer 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.
- Antibiotics do not cure toothache. First line pain treatment is with paracetamol and/or ibuprofen; codeine is not effective for toothache.

Oral candidiasis	See under Gastrointestinal tract infections section					
Mucosal ulceration and inflammation (simple gingivitis)	Temporary pain and swelling relief can be attained with saline mouthwash (½ tsp salt in warm water). Use antiseptic mouthwash if more severe, and if pain limits oral hygiene to treat or prevent secondary infection. The primary cause for mucosal ulceration or inflammation (aphthous ulcers; oral lichen planus, herpes simplex infection; oral cancer) needs to be evaluated and treated.	First line: Topical: Simple saline mouthwash Second line: Topical: Chlorhexidine 0.12 - 0.2% (Do not use within 30 mins of toothpaste)	Adults & Children: Adults: Children:	Rinse mouth with ½ tea spoon salt dissolved in glass warm water Rinse mouth with 10 mL BD for about 1 minute	Always spit out after use. Use until lesions resolve or	PHE context references and rationale Oct 2018
		OR Topical: Hydrogen peroxide 6%	Adults: Children:	Rinse mouth with 15ml diluted in in ½ glass warm water for 2 – 3 mins BD - TDS	less pain allows oral hygiene	Nov 201
Acute necrotising ulcerative gingivitis	Refer to dentist for scaling and hygiene advice. Antiseptic mouthwash if pain limits oral hygiene. Commence metronidazole if systemic signs and symptoms.	Topical: Chlorhexidine 0.12 - 0.2% (Do not use within 30 mins of toothpaste) OR	Adults: Children:	Rinse mouth with 10 mL BD for about 1 minute	Always spit out after use. Until pain	PHE context references and rationale Oct 2018
		Topical: Hydrogen peroxide 6%	Adults: Children:	Rinse mouth with 15ml diluted in in ½ glass warm water for 2 – 3 mins BD - TDS	allows for oral hygiene	
		Oral: Metronidazole	Adults: Children:	400mg TDS BNF for children	3 days	Nov 201

Infection	Comments	Medications		ADULT dose for child's doses click on	Duration of treatment	Referances & Useful links
Pericoronitis	Refer to dentist for irrigation and debridement. If persistent swelling or systemic symptoms, use metronidazole or amoxicillin. Use antiseptic mouthwash if pain and trismus limit oral hygiene.	If indicated: First line Oral: Metronidazole OR	Adults: Children:	400mg TDS BNF for children	3 days	PHE context references and rationale Oct 2018
		Oral: Amoxicillin (Penicillin based antibiotic)	Adults: Children:	500mg TDS BNF for children	3 days	
		Topical: Chlorhexidine 0.12 - 0.2% (Do not use within 30 mins of toothpaste)	Adults: Children:	Rinse mouth with 10 mL BD for about 1 minute	Always spit out after use.	
		OR Topical: Hydrogen peroxide 6%	Adults: Children:	Rinse mouth with 15ml diluted in in ½ glass warm water for 2 – 3 mins BD - TDS	Until pain allows for oral hygiene	Nov 2017
Dental abscess Regular analgesia should be the first option until a dentist can be seen for urgent drainage, * as repeated courses of antibiotics for abscesses are not appropriate. Rep alone, without drainage, are ineffective in preventing the spread of infection. Antibiotics are only recommended if there are signs of severe infection, systemic symptor of complications. Patients with severe odontogenic infections (cellulitis, plus signs of sepsis; difficulty in swallowing; impending airway obstruction) should be referred hospital admission to protect airway, for surgical drainage and for IV antibiotics. The empirical use of cephalosporin, co-amoxiclav, clarithromycin, and clindamycin do advantage for most dental patients, and should only be used if there is no response to first-line drugs.						PHE context references and rationale Oct 2018
	If pus is present, refer for drainage, tooth extraction, or root canal. Send pus for investigation. If spreading infection (lymph node involvement or systemic signs, that is, fever or malaise) ADD metronidazole. Use clarithromycin in true penicillin allergy and, if severe, refer to	First Line: Oral: Amoxicillin (Penicillin based antibiotic) OR	Adults: Children:	500mg - 1000mg TDS	Upto 5 days – review day 3	
	hospital.	Oral: Phenoxymethylpenicillin (Penicillin based antibiotic)	Adults: Children:	500mg – 1000mg QDS	Upto 5 days – review day 3	
		If severe: ADD Oral: Metronidazole	Adults: Children:	400mg TDS BNF tor children	Upto 5 days – review day 3	
		If penicillin allergy: Oral: Clarithromycin	Adults: Children:	500mg BD	Upto 5 days – review day 3	
			<u> </u>			Nov 2017