Crovdon

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

Based on NICE & PHE guidance, and locally adapted for use in Croydon

Aims

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

Principles of Treatment:

- This guidance is based on the best available evidence but professional judgement and involve patients in management decisions. 1.
- 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.
- 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. 4.
- 5. Use a lower threshold for antibiotics in immunocompromised, or in those with multiple morbidities; consider culture/specimens, and seek advice.
- 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 6. monitoring, and how to access medical care if they are concerned.
- 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 7. out-of-hour service, please contact CUH switchboard on 020 8401 3000.
- 8. Limit prescribing over the telephone to exceptional cases.
- 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 9. 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.
- Always check for antibiotic allergies. Clearly document allergies on the clinical system and where possible a description of the reaction. 11.
- 12. Avoid cephalosporins where possible in patient > 65years.
- 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 symbol. In 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 guinolones 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.

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	Comments	Medications		ADULT dose for child's doses o		Duration of treatment	References & Useful links
MENINGITIS							
Suspected neningococcal lisease	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.	First Line IV or IM: Benzylpenicillin STAT (Penicillin based antibiotic)	Adults: Children:	& Child over 10 years Under 1 years: 1 - 9 years:	1.2 g 300mg 600mg	STAT dose	NICE CG102, update Feb 2015
		IV or IM: Cefotaxime STAT	Adults: Children:	& Child over 12 years Under 12 years:	1g 50mg/kg (max 3g)	(Give IM if vein cannot be found)	Nov 2
HE South London Heal	y case of meningitis: Only prescribe following advice from your local th Protection Team: 2:0344 326 2052 (same number 9am- 5pm, al ORY TRACT INFECTIONS	nd Out of hours for health professionals c		e.slhpt@nhs.net; slhpt.oi	ncall@phe.gov.uk		
nfluenza	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 influe 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 In severe immunosuppression, or oseltamivir resistance, use zanar	enza is circulating in the community, and 6 months; adults 65 years or older; chron ion; chronic neurological, renal or liver di 13 years.	ideally within ic respirator isease; diabe	ry disease (including COP) etes mellitus; morbid obe	D and asthma); signific		UKTIS pregnancy PHE Influenza guidance PHE website Nov 2
icarlet fever Group A Streptococcal, GAS	Prompt treatment with appropriate antibiotics significantly reduces the risk of complications. Optimise analgesia and give safety netting advice	<u>First Line</u> Oral: Phenoxymethylpenicillin (Penicillin based antibiotic)	Adults: Children:	500mg QDS Neonates: 12.5 mg/kg	r (max 65 2mg) ODS	10 days 10 days	PHE: Notifiable diseases and causat
infection)	Vulnerable individuals [immunocompromised, those with co- morbidities (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			Child 1–11 mths: Child 1–5 years: Child 6–11 years: Child 12–17 years	62.5 mg QDS 125 mg QDS 250 mg QDS 250-500 mg QDS		organisms: how to report CKS Scarlet Fever
	complications. Consider arranging admission for urgent assessment and treatment of people who:	If Penicillin Allergy:					
	 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 	Oral: Clarithromycin (Adults and Children)	Adults: Children: under 12 years	250 - 500mg BD Under 8kg: 8 - 11kg: 12 - 19kg: 20 - 29kg:	7.5mg/kg BD 62.5mg BD 125mg BD 187 5mg BD	5 days 5 days	
	 Have pre-existing valvular heart disease Are significantly immunocompromised Have a suspected severe complication of scarlet fever such 	•	Children: under 12	Under 8kg: 8 - 11kg: 12 - 19kg: 20 - 29kg: 30 - 40kg:	62.5mg BD		









Infection	Comments	Medications		ADULT dose	Duration of	References &
incetton	comments	Wedications		for child's doses click on	treatment	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 prescribing - Visual
	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)		summary
	 FeverPAIN criteria Fever (during previous 24 hours) Purulence (pus on tonsils) Attend rapidly (within 3 days after onset) Inflamed tonsils (severe) No cough or coryza 	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:	BMF for children	5 - 10 days	NICE NG84, Jan 2018
	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	OR Oral: Erythromycin – pregnancy	Adults:	250mg to 500mg QDS or 500mg to 1000mg BD	5 days	
	FeverPAIN 4-5 / Centor 3-4: immediate / back-up antibiotic 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 :	BMF torchildren	5 days	
	Consider hospital admission for : suspected epiglottitis, breathing difficulty, clinical dehydration, Peri-tonsillar abscess or cellulitis, parapharyngeal abscess, retropharyngeal abscess, or Lemierre syndrome (as there is a risk of airway compromise or rupture of the abscess).	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 +/-	OTC for adults Ear Spray: Acetic acid 2%, (EarCalm [®] spray) Which acts as an antifungal and antibacterial in the external ear canal	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	PHE context references and rationale Oct 2018
	steroid: similar cure at 7 days.	OR			infections	CKS Otitis externa
of infection, st	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	Duration of treatment	References & Useful links
Acute Otitis Media	AOM is a self-limiting infection	that mainly affects children. It can	Offer regular paracetamol or ibuprofe	n for pain.	Up to 7 days	
(AOM)		ia and it is difficult to distinguish	Consider eardrops containing			NICE Otitis Media
		are usually self-limiting and do	anaesthetic and analgesic if an			(acute) antimicrobial
	not routinely need antibiotics.		immediate oral antibiotic			prescribing - Visual Summary
	Advise AOM lasts about 3 days	but can be up to 1 week.	prescription is not given and there is no eardrum perforation / otorrhoea			Summary
	Antibiotics make little difference	e to the number of children whose	i.e			NICE NG91, Mar 2022
		ons (e.g. mastoidosis) are rare with	Phenazone 40mg/g with lidocaine	Apply 4 drops two or three times a day	Up to 7 days	
	or without antibiotics.		10mg/g (Otigo®) First Line			
			Oral: Amoxicillin		5 - 7 days	
	Optimise analgesia and avoid a	antibiotics	(Penicillin based antibiotic)	Children:	5 / 00/3	
				for children	5 - 7 days	
	Those with otorrhoea , or those bilateral infection are more like	• •			,	
	Systemically very unwell or		If Penicillin Allergy:			
	high risk of complications:	Immediate antibiotic	Oral: Clarithromycin	Children BNF forchildren	5 – 7 days	
				for children	5 – 7 days	
	Otorrhoea or under 2 years	 No antibiotics or 			5 / 00/5	
	with infection in both ears:	Back-up antibiotics or				
		Immediate antibiotic				
	Otherwise:	No antibiotic or				
		Back-up antibiotic				
	With immediate antibiotic, adv		OR Oral: Erythromycin – pregnancy	Children BNF for children	5 – 7 days	
	Seek medical help if symptoms	worsen rapidly or significantly.				
	With back-up antibiotic prescri	ption, advise:	Second Line			
	Antibiotic not needed immedia		Worsening symptoms on first choice			
	Use prescription if no improver		taken for at least 2 - 3 days			
	worsen. Seek medical help if sy	mptoms worsen rapidly or	Oral: Co-amoxiclav		5 – 7 days	
	significantly.		(Penicillin based antibiotic)		-	
	With no antibiotic given, advise	•		Children RME		
	_	 nedical help if symptoms worsen		Children: BNF forchildren	5 – 7 days	
	rapidly or significantly.					
			Second line in penicillin allergic –			Oct 2024
			Consult local microbiologist			000 2024

Infection		Comments	Medications		ADULT dose for child's doses click on	Duration of treatment	References & Useful links
Acute Sinusitis (Rhinosinusitis)	Little evidence tha but people may w Antibiotics make little c	lifference to how long symptoms last	First Line Oral: Phenoxymethylpenicillin (Penicillin based antibiotic)	Adults: Children:	500mg QDS BNF for children	5 days	NICE Sinusitis (acute) - Visual Summary NICE NG79, Oct 2017
	Systemically very unwell or high risk of complications:	e whose symptoms improve: 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 corticosteroid (if over 12 years).	Oral: Clarithromycin (Adults and Children)	Adults: Children:	250 - 500mg BD	5 days	
	Symptoms for 10 days or less	No antibiotic	OR Oral: Erythromycin – pregnancy Second choice or first choice if	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 nase	systemically very unwell or high risk of complications: Oral: Co-amoxiclav (Penicillin based antibiotic)	Adults: Children:	500/125mg TDS	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 exacerbations c sinusitis (for example, purulent discharge,		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	Duration of treatment	References & Useful links
LOWER RESPIRAT	ORY TRACT INFECTIONS (LRTI)						
•	enicillins are more likely to select out resistand olones (ciprofloxacin, ofloxacin) first line beca		U U U U U U U U U U U U U U U U U U U	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 antibiotic	Children under 12s or in pregnancy)	Children			NICE Cough (acute) – Visual Summary
	Acute cough and higher risk of complications	Immediate or	OR	12 years +:			,
	(at face-to-face examination)	back up antibiotic	Oral: Amoxicillin	Adults:	500mg TDS	5 days	
	Acute cough and systemically very unwell (at face-to-face examination)	Immediate antibiotic	(Penicillin based antibiotic)	Children:	BNF for children	,	
	Higher risk of complications includes pre-existin						-
	young children born prematurely; people over of, or over 80 with 1 or more of: hospitalisation		Alternative choices Oral: Clarithromycin	Adults: Children:	250 - 500mg BD	5 days	
	type 1 or 2 diabetes, history of congestive hear	• • •	(Adults and Children)	children.	for children		
	use of oral corticosteroids.	,					
	Do not offer a mucolytic, an oral or inhaled bro oral or inhaled corticosteroid unless otherwise		OR Oral: Erythromycin – pregnancy	Adults:	250mg to 500mg QDS or	5 days	July 2020
Acute	Many exacerbations are not caused by bacteria		<u>First Line</u>		500mg to 1000mg BD		
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 volume or thickness), need for hospitalisation,		OR				NICE NG114, Dec 2018
	exacerbations, hospitalisations and risk of com	•	Oral: Doxycycline (not to be used in	Adults:	200mg on day 1, then 100mg OD	5 days	
	sputum culture and susceptibility results, and r	isk of resistance	Children under 12s or pregnancy)			5 days	
	with repeated courses. Some people at risk of exacerbations may have	antibiotics to keep	OR				
	at home as part of their exacerbation action pla		Oral: Clarithromycin	Adults: Adults:	500mg BD 250mg to 500mg QDS or	5 days	
			OR Oral: Erythromycin – pregnancy	Aduits.	500mg to 1000mg BD	Suays	
			Second line:				-
			Use alternative first choice				-
			Alternative choice (if person at				
			higher risk of treatment failure): Oral: Co-amoxiclay	Adults:	500/125mg TDS	5 days	
			(Penicillin based antibiotic)				
			OR				
			Oral: Levofloxacin (Consider safety issues)	Adults:	500mg OD	5 days	
			OR				
			Oral: Co-trimoxazole (Consider safety issues)	Adults:	960mg BD	5 days	Dec 2018
							DCC 2010

Infection	Comments	Medications		ADULT dose for child's doses click on	Duration of treatment	References & Useful links
Community	Assess severity in adults based on clinical judgement guided by	CRB65 = 0 or Non-severe symptoms				
acquired	mortality risk score CRB65. Each CRB65 parameter scores one:	or signs				NICE NG138, Sep 2019
pneumonia (CAP)	• Confusion (AMT<8, or new disorientation in person, place or	Oral: Amoxicillin	Adults:	500mg TDS (higher doses can be used;		
prieumonia (CAP)	time)	(Penicillin based antibiotic)		see BNF)		NICE Pneumonia
	• Respiratory rate >30/min;	Alternative choice if amoxicillin	Children:	BNF		(community-
	 BP low systolic <90mmHg or low diastolic ≤ 60mmHg; 	unsuitable (e.g. penicllin allergy or		for children		acquired):
	• Age > 65	atypical pathogens suspected)				antimicrobial
	Score 0: low risk (less than 1% mortality risk)	Oral: Doxycycline (not to be used in	Adults:	200mg on day 1, then 100mg OD		prescribing - Visual
	Score 1-2: intermediate risk (consider hospital referral)	Children under 12s or in pregnancy)	Adults.			Summary
	Score 3-4: high risk (requires urgent hospital admission)	OR	Adults:	500mg BD	5 days unless	
		Oral: Clarithromycin	Children:	BNE	microbiologic	
	In children and young people, severity is assessed by clinical	OR		for children	al results	
	judgement.	Oral: Erythromycin – pregnancy	Adults:	500mg QDS	suggest a	
			Children:	for children	longer course	
	When choosing an antibiotic, take account of:	<u>CRB65 = 1-2</u>			is needed or	
	• The severity assessment (adults), or the severity of symptoms or	Clinically assess need for dual			the person is	
	signs (children and young people); see above	therapy for atypicals			not clinically	
	• The risk of complications, e.g. a relevant comorbidity (such as	Oral: Amoxicillin	Adults:	500mg TDS (higher doses can be used;	stable (fever	
	severe lung disease or immunosuppression)	(Penicillin based antibiotic)		see BNF)	in the past 48	
	Recent antibiotic use	WITH (if atypical pathogens suspected)	Children:	BNF for children	hours, or	
	Previous microbiological results, including colonisation with	Oral: Clarithromycin	Adults:	500mg BD	more than `	
	multi-drug resistant bacteria		Children		sign of clinical	
		OR		BNF for children	instability	
	When prescribing antibiotics for a community acquired pneumonia	Oral: Erythromycin – pregnancy	Adults:	500mg QDS	[systolic BP	
	• Offer an antibiotic(s). Start treatment as soon as possible, within	Alternative choice if amoxicillin			<90mmHg,	
	4 hours of establishing a diagnosis (within 1 hour if sepsis	unsuitable (e.g. penicllin allergy)			heart rate	
	suspectd an person meets any high risk criteris – see NICE	Oral: Doxycycline (not to be used in	Adults:	200mg on day 1, then 100mg OD	>100/min,	
	guidline on sepsis.)	children under 12s or in pregnancy)			respiratory	
	• For adults, follow the recommendations on microbiological tests	OR			rate >24/min,	
	in the NICE guideline on pneumonia And give advice about	Oral: Clarithromycin	Adults:	500mg BD	arterial	
	Possible side effects of the antibiotic(s)	CRB65 = 3-4 or Severe symptoms or			oxygen	
	 How long symptoms are likely to last (see also the NICE guideline 	signs			saturation	
	on pneumonia)	Oral: Co-amoxiclav	Adults:	500/125 mg TDS	<90% or PaO ₂	
	 Seeking medical help if symptoms worsen rapidly or significantly 	(Penicillin based antibiotic)	Children:	BNF	<60mmHg in	
	at any time, or do not start to improve within 3 days, or the	Sector (if the middle of the many successful)		for children	room air]	
	person becomes systemically very unwell.	WITH (if atypical pathogens suspected)				
	Reassess if:	Oral: Clarithromycin	Adults:	500mg BD		
	• Symptoms do not improve as expected, or worsen rapidly or	OR				
	significantly, taking account of possible non-bacterial causes such	Oral: Erythromycin – pregnancy	Adults:	500mg QDS		
	as flu		Children:	BNF for children		
	If symptoms have not improved after antibiotics, send a sample	Alternative choice if co-amoxiclav				
	(e.g. sputum) for microbiological testing, if not already done	unsuitable (e.g. penicllin allergy		500 55		
		Oral: Levofloxacin (consider safety	Adults:	500mg BD		July 2020
		issues) Refer to becrital if IV required				
		Refer to hospital if IV required			<u> </u>	

Infection	Comments	Medications		ADULT dose for child's doses click on	Duration of treatment	References & Useful links
Infection Bronchiectasis (non-cystic fibrosis) acute exacerbation	Comments 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 previous sputum culture and susceptibility results When results of sputum culture are available: review choice of antibiotic only change antibiotic according to susceptibility results 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 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 Refer to hospital if the person has any symptoms or signs suggesting a more serious illness or condition (for example, cardiorespiratory failure or sepsis). Seek specialist advice if: symptoms do not improve with repeated courses of antibiotics bacteria are resistant to oral antibiotics bacteria are resistant to oral antibiotics the person cannot take oral medicines (to explore giving intravenous antibiotics at home or in the community if appropriat	First Line: When current susceptibility data available, choose antibiotics accordingly: Oral: Amoxicillin (Penicillin based antibiotic) OR Oral: Doxycycline (not to be used in Children under 12s or in pregnancy) OR Oral: Clarithromycin OR Oral: Erythromycin – pregnancy Alternative choice (if person at higher risk of treatment failure): Oral: Co-amoxiclav (Penicillin based antibiotic) OR Oral: Levofloxacin – Adults (Consider safety issues) OR Oral: Ciprofloxacin (on specialist advice) – Children First choice intravenous antibiotics (if			treatment 7 - 14 days 7 - 14 days	
		IV: Piperacillin with Tazobactam (Penicillin based antibiotic) OR IV: Levofloxacin – Adults (Consider safety issues) OR IV: Ciprofloxacin (on specialist advice) – Children	Adults: Children: Adults: Children:	4.5g TDS BNF for children 500mg OD – BD BNF for children	treatment in 48 -72 hours	Dec 2018

Infection	Comments	Medications		ADULT dose for child's doses click on	Duration of treatment	References & Useful links
URINARY TRACT	INFECTIONS		1			
Lower Urinary	Advise paracetamol or ibuprofen for pain and drinking enough	Adults (16 year and over): Wome	en (non preg	gnant) and Men		
tract infection	fluid to avoid dehydration.	First Line:				
(UTI)	 Men, Pregnant women, children or young people: Immediate antibiotic. 	Oral: Nitrofurantoin (Nitrofurantoin if GFR <u>over</u> 45ml/min)	Adults:	100mg M/R BD	Women: 3 days	NICE UTI (lower): antimicrobial
	Women: Non-pregnant	(May be used with caution if eGFR 30-44				prescribing - Visual
	 Back up antibiotic (to use if no improvement in 48 hours or 	ml/minute to treat uncomplicated lower			Men: 7 days	Summary
	symptoms worsen at any time) or immediate antibiotic.	UTI caused by suspected or proven multidrug resistant bacteria and only if				Summary
	When considering antibiotics, take account of severity of	potential benefit outweighs risk)				NICE NG109, Oct 2018
	symptoms, risk of complications, previous urine culture and	Second line: Men				NICE NG109, OCI 2010
	susceptibility results, previous antibiotic use which may have led		ntibiotic choic	e on recent culture and susceptibility results		-
	to resistant bacteria and local antimicrobial resistance data.	Second line: Women				
	Send midstream urine for culture and susceptibility for pregnant	Oral: Pivmecillinam	Adults:	400mg initial dose, then 200mg TDS	3 days	NICE Decision Aids:
	women and men.	(Penicillin based antibiotic)				NICE Decision aid:
		OR Orali Fastanusia				Cystitis - Taking an
	Seeking medical help if symptoms worsen at any time, do not	Oral: Fosfomycin	Adults:	3g single dose sachet	STAT	antibiotic, Nov 2018
	improve within 48 hours of taking the antibiotic, or the person becomes very unwell.	Pregnant women:	1		-1	-
	becomes very unwen.	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 <u>over</u> 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	
1	Abnormal urinary tract (e.g. renal calculus, vesicoureteric	(Beta-lactam antibiotic)	Addits.	Soong DD	,.	
1	reflux (abnormal flow of urine from the bladder into the	Children and young people (3 mo	nthe and ov	vor)		-
	upper urinary tract), reflux nephropathy, neurogenic bladder, urinary obstruction, recent instrumentation).					
l	 Immunosuppression (for example because they have poorly 	First line:	liatric specia	list and treat with intravenous antibiotics	1	-
	controlled diabetes mellitus or are receiving		Children	BNF	2 days	
	immunosuppressive treatment.	Oral: Trimethoprim	Children:	for children	3 days	
	Nitrofurantoin has been used for many years in pregnancy	OR Oralı Nitrofurantain	Children	BNF	2 days	
	[Schaefer et al, 2007; UKTIS, 2012b].	Oral: Nitrofurantoin (Nitrofurantoin if GFR over 45ml/min)	Children:	for children	3 days	
	The drug is concentrated in the urinary tract. Consequently,	Second line:				+
	significant transfer across the placenta does not occur. Although	Oral: Nitrofurantoin	Children:	BNE	3 days	
	it is not licensed for use in pregnancy, the manufacturer of	(Nitrofurantoin if GFR <u>over</u> 45ml/min and	cimuren:	BNF for children	5 uays	
1	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	2 days	
1	avoided at term, because of the risk of neonatal haemolysis.	(Beta-lactam antibiotic)		Torchildren	3 days	Lulu 2020
	However, the risk seems very small — significant placental	,				July 2020
	transfer of nitrofurantoin does not occur.					

Infection	Comments	Medications		ADULT dose for child's doses click on	Duration of treatment	References & Useful links
Acute pyelonephritis	Send a midstream urine sample for culture and susceptibility testing.	Adults (12 year and over): Wom	en (non preg	gnant) and Men		NUCE NC111 . 0-+ 2010
(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	NICE NG111, Oct 2018 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)	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).	OR 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 combinin Consult microbiologist	ng antibiotics	if susceptibility or sepsis a concern		
		Children and young people unde Refer children under 3 months to pae		list and treat with intravenous antibiotics		
		First line: Oral: Cefalexin (Beta-lactam antibiotic)	Children:	BNF for children	7-10 days	
		OR 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	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 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 	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) Second line: After discussion with specialist: Oral: Levofloxacin (consider safety issues) OR Oral: Co-trimoxazole (consider safety issues)	Adults: Adults: Adults: Adults: Adults:	500mg BD 200mg BD 200mg BD 500mg OD 960mg BD	14 days then review14 days then review14 days then review14 days then review14 days then review14 days then review14 days then review	NICE NG110, Oct 2018 Prostatitis (acute): antimicrobial prescribing: Visual Summary
Recurrent urinary tract infection (prophylaxis)	 First advise about behavioural and personal hygiene measures, and self-care (with D-mannose or cranberry products) to reduce the risk of UTI. For postmenopausal women, if no improvement, consider vaginal oestrogen (review within 12 months). For non-pregnant women, if no improvement, consider single-dose antibiotic prophylaxis for exposure to a trigger (review within 6 months). For non-pregnant women (if no improvement or no identifiable trigger) or with specialist advice for pregnant women, men, consider a trial of daily antibiotic prophylaxis (review within 6 months). Refer children and young people to specialist. 	First line: Prophylaxis Oral: Nitrofurantoin (Nitrofurantoin if GFR over 45ml/min) Second line: Prophylaxis Consult local microbiologist Oral: Cefalexin (Beta-lactam antibiotic)	Adults:	100mg STAT when exposed to a trigger OR 50 - 100mg ON 500mg STAT when exposed to a trigger OR 125mg ON	Review all within 6 months	NICE NG112, Oct 2018 UTI (recurrent): antimicrobial prescribing, Visual- Summary NICE Decision Aids: NICE Decision aid: Reducing recurrent UTI in premenopausal women (non-pregnant) Nov 2018 NICE Decision aid: Reducing recurrent UTI in postmenopausal women, Nov 2018

Infection	Comments	Medications		ADULT dose for child's doses click on	Duration of treatment	References & Useful links
Catheter-	Antibiotic treatment is not routinely needed for asymptomatic	Adults (16 year and over): Wome	en (non pre	gnant) and Men: <u>No</u> upper UTI sympto	ms	
associated urinary tract infection	bacteriuria in people with a urinary catheter. (All catheters are colonised with organisms within 48 hours on insertion).	First Line: Oral: Nitrofurantoin (Nitrofurantoin if GFR <u>over</u> 45ml/min) OR	Adults:	100mg M/R BD	7 days	NICE NG113, Nov 2018 UTI (catheter): antimicrobial
	Offer an antibiotic to all catheterized patients with symptoms suggestive of a UTI. • Admit to hospital if severe	Oral: Trimethoprim (only if culture results available and susceptible) OR	Adults:	200mg BD	7 days	prescribing: Visual Summary
	 Culture the urine as MRSA, ESBL producing multi resistant E Coli infections are common in these patients. Consider removing or, if not possible, changing the catheter 	Oral: Amoxicillin (Penicillin based antibiotic) (Only if cultures results available and susceptible	Adults:	500mg TDS	7 days	-
	if it has been in place for more than 7 days.But do not delay antibiotic treatment.	Second line: Oral: Pivmecillinam (Penicillin based antibiotic)	Adults:	400mg initial dose, then 200mg TDS	7 days	
	Advise paracetamol for pain.			gnant) and Men: <u>with UPPER UTI</u> symp	otoms	
	Advise drinking enough fluids to avoid dehydration. When prescribing antibiotics, take account of severity of	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	
	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	
	Do not routinely offer antibiotic prophylaxis to people with a short-term or long-term catheter.	Oral: Trimethoprim (only if culture results available and susceptible) OR	Adults:	200mg BD	14 days	
		Oral: Ciprofloxacin (consider safety issues)	Adults:	500mg BD	7 days	
		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	_
		Children and young people under	r 16 years	if susceptibility or sepsis a concern Consult	microbiologist	-
		Oral: Trimethoprim (only if culture results available and susceptible)	Children:	alist and treat with intravenous antibiotics	7 to 10 days	
		OR Oral: Amoxicillin (Penicillin based antibiotic) (only if	Children:	BNF for children	7 to 10 days	
		culture results available and susceptible) OR Oral: Cefalexin (Beta-lactam antibiotic)	Children:	BNF forchildren	7 to 10 days	
		OR Oral: Co-amoxiclav	Children:	BNF for children	7 to 10 days	
		(Penicillin based antibiotic) (only if culture results available and susceptible)				July 2020

Infection	Comments	Medications	ADULT dose for child's doses click on		Duration of treatment	References & Useful links
GASTRO-INTESTI	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: Children:	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	-
Infectious Diarrhoea	Defense viewely healthy shildren with easte prinful as blandy disurbane to evolute E call O157 infection					

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

Infection	Comments	Medications		ADULT dose for child's doses click on	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-	<u>Standby:</u> 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
с	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	For suspected or confirmed <i>C. difficile</i> infection, see Public Health England's guidance on diagnosis and reporting.	First line for first episode of mild, moderate or severe infection:	Adults:	125mg QDS	10 days	NICE NG199, Published Nov 2019
(formerly <i>Clostridium difficile</i>)	Assess: whether it is a first or further episode, severity of infection, individual risk factors for complications or recurrence (such as age, frailty or comorbidities).	Oral: Vancomycin Second line for first episode of mild,				NICE NG199 visual summary
es	Existing antibiotics : review and stop unless essential. If still essential, consider changing to one with a lower risk of <i>C. difficile</i> infection.	moderate or severe if vancomycin: Oral: Fidaxomicin (very high cost)	Adults:	200mg BD	10 days	
	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				-
	For children and young people, treatment should be started by, or after advice from, a microbiologist, paediatric infectious diseases specialist or paediatric gastroenterologist.	<u>(recurrence):</u> 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.	OR Oral: Fidaxomicin (very high cost)	Adults:	200mg BD	10 days	
		Consult local microbiologist For alternative antibiotics if first- an infection seek specialist advice (see		ne antibiotics are ineffective or for life-thre mary)	atening	Mar 2022
		1				IVIdi 2022

Infection	Comments	Medications		ADULT dose for child's doses click on	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 	<u>First line:</u> 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: 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 clinical assessment)	
	 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: Adults:	500mg BD 400mg TDS		

Infection	Comments	Medications		ADULT dose for child's doses click on BNF 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					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.	<u>First line:</u> 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	
		OR 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	
		OR 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	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.	<u>First line:</u> 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 OR	Adults:	5g applicator at night	5 nights	
		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 	<u>First line</u> 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. Avoid sharing towels and flannels with household members 	<u>Second line</u> Oral: Valaciclovir OR	Adults:	500mg BD	5 days	
 herpes simplex infection — treatment should condays of the start of the episode, or while new lesit for people with a first clinical episode of genital hvirus (HSV) and refer to GUM. BASHH recommends five days of antiviral treatment genital HSV, as there is no evidence of benefit for treatment than this period [BASHH, 2014]. However, the WHO 10 days treatment should be provided, as follow-up possible and symptoms of the first clinical episode matching and symptoms and symptoms	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	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 [WHO, 2016].	Recurrent Oral: Aciclovir OR Oral: Famciclovir	Adults: Adults:	800mg TDS 1g BD	2 days 1 day	
	Recurrent: self-care if mild, or immediate short course antiviral treatment, or suppressive therapy if more than 6 episodes per year.					Nov 2017

Infection	Comments	Medications		ADULT dose for child's doses click on	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.	<u>First Line</u> Oral: Metronidazole PLUS	Adults:	400mg BD	14 days	PHE context references and rationale Oct 2018
	Exclude : ectopic, appendicitis, endometriosis, UTI, irritable bowel, C complicated ovarian cyst, functional pain. Moxifloxacin has greater activity against likely pathogens, but always culture for	Oral: Ofloxacin OR Oral: Moxifloxacin		400mg BD 400mg OD	14 days 14 days	
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	for ch	ADULT dose Duration of for child's doses click on treatment		References & Useful links
SKIN INFECTIO	NS					
Impetigo	Localised non-bullous impetigo:	Topical antiseptic:				NICE NG153, Published Feb 2020
	If hydrogen peroxide unsuitable or ineffective, short-course topical antibiotic. Widespread non-bullous impetigo: Short-course topical or oral antibiotic. Take account of person's preferences, practicalities of administration, previous use of topical antibiotics because antimicrobial resistance can develop rapidly with extended or repeated use, and local antimicrobial resistance data. Bullous impetigo, systemically unwell, or high risk of complications: Short-course oral antibiotic.	Hydrogen peroxide 1%	Adults and Children:	BD or TDS	5 days*	Published Feb 2020
		First choice topical antibiotic if hydrog ineffective:	gen peroxide uns	uitable (e.g. impetigo is ar	ound eyes) or is	-
		Fusidic acid 2% cream	Adults and Children:	TDS	5 days*	
		Alternative topical antibiotic if fuside	acid resistance c	cid resistance confirmed		
		Mupirocin 2%	Adults and Children:	Thinly TDS	5 days*	
		Oral antibiotic:	antibiotic:			
	effects and resistance). *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	Children:	BNF for children		
	 Systemically unwell High risk of complications 	erythromycin (in pregnancy)	Adults Children:	250 to 500mg QDS		
	For detailed information click on the visual summary.	If MRSA suspected or confirmed – con	sult local microbio	ologist		
If PVL-SA (Panton-Valentine leucocidin Staphylococcus aureus) suspected see below.					July 2020	
Cold sores	Most resolve after 5 days without treatment. Topical antivirals triggers: consider oral prophylaxis: Aciclovir 400 mg, twice daily		tion by 12 to 18 l	hours. If frequent, severe,	, and 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 in healthy people, but severe. Suppression therapy should only be started after primary infect Risk factors for PVL: if there is more than one case in a home or	tion has resolved, as suppression thera	py is ineffective	if lesions are still leaking.		PHE context references and rationale Oct 2018
aureus)	 contacts); recurrent skin infections; invasive infections; men wh Consider taking a swab of pus from the contents of the lesion if Not responding to treatment, persistent or recurrent, There are multiple lesions. The person: Is immunocompromised, is known to be of If PVL-SA is suspected, this should be mentioned spec 	the boil or carbuncle is: to exclude atypical mycobacteria or PV colonized with MRSA, Has diabetes.	orts.	nursing nome residents, no	usenoiu	PHE management of PVL-SA, Nov 2008 Nov 2017
Infected Eczema	or oral antibiotic.					
	Manage underlying eczema and flares with treatments such as	First line: fusidic acid 2%	Adults and children:	TDS	5 – 7 days	NICE NG190, Updated 2021 NICE NG 190 visusal
	Symptoms and signs of secondary bacterial infection can include: weeping, pustules, crusts, no response to	Oral antibiotic:			summary	
	reatment, rapidly worsening eczema, fever and malaise.	First line: Flucloxacillin	Adults: Children:	500mg QDS		
	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	ADULT dose	Duration of	References &
	connents	Medications	for child's doses click on	treatment	Useful links
Acne vulgaris (page 1 of 2)	 Mild to moderate acne, this includes people who have 1 or more of: any number of non-inflammatory lesions (comedones) 	Any severity (topical treatment) Combination of adapalene/benzoyl peroxide 0.1%/2.5% or 0.3%/2.5%	Adults: Apply thinly in the evening once a day		NICE NG198, Updated 2021
	 up to 34 inflammatory lesions (with or without non- inflammatory lesions) 	OR	Children 9+ years: † BNF forchildren		CKS Acne vulgaris
	 up to 2 nodules Moderate to severe acne, this includes people who have either or both of: 	Combination of tretinoin / clindamycin 0.025%/1% OD	Adults: Apply thinly in the evening once a day		
	 35 or more inflammatory lesions (with or without non- inflammatory lesions) 3 or more nodules 	OR	Children 12+ years: Forchildren		
	Self-care advice: Wash with non-alkaline synthetic detergent cleansing product 	If above contraindicated / refused Benzoyl peroxide 5%	Adults: OD or BD	Assess after 12 weeks	
	 (e.g. Dove[®] or Aveeno[®] moisturising bar) twice daily; do not scrub; avoid make-up. Patient information from the British Association of 		Children BNF 12+ years: for children		
	 Dermatologist is available here. Do not use the following to treat acne; 	Mild to moderate (topical treatment) Combination of benzoyl	Adults: Apply thinly in the evening		
	 monotherapy with a topical antibiotic monotherapy with an oral antibiotic combination of a topical and oral antibiotic 	peroxide/clindamycin) 3%/1% or 5%/1%	once a day Children		
	 minocycline as per SWL Position Statement Give clear information tailored to patient needs and concerns. Topics to cover include: 	Moderate to severe (topical PLUS oral treatment)	12+ years: for children		
	 possible reasons for their acne treatment options, including OTC treatments if appropriate benefits and drawbacks of treatment 	Topical treatment			
	 potential impact of acne importance of adhering to treatment, as positive effects and take 6-8 weeks to become noticeable 	Combination of adapalene/benzoyl peroxide 0.1%/2.5% or 0.3%/2.5%	Adults: Apply thinly once daily, in the evening Children BNF		
	 relapses during and after treatment, including when to obtain further advice, and treatment options should a 	OR	12+ years: forchildren		
	relapse occurRefer to a consultant dermatologist if any of the following apply:	Azelaic acid * 15% gel or 20% cream AND	Adults: BD Children	Assess after 12 weeks	
	 there is diagnostic uncertainty they have acne conglobata they have nodulo-cystic acne 	Oral treatment	12+ years: for children		
	 they have acne fulminans (urgent referral to hospital dermatology team to be assess within 24 hours) 	Lymecycline	Adults: 408mg OD Children		
	 Consider referring to a consultant dermatologist if they have: mild to moderate acne that has not responded to two courses of treatment 	Doxycycline	12+ years: for children Adults:		
	 moderate to severe acne which has not responded to previous treatment that contains an oral antibiotic acne with scarring (continued next page) 		100mg OD Children 12+ years:		
					Mar 2022

Infection	Comments	Medications	ADULT dose for child's doses click on	Duration of treatment	References & Useful links
Acne vulgaris (page 2 of 2)	 acne with persistent pigmentary changes 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 for up to 12 more weeks if their acne has not completely cleared (either oral and topical treatment, or topical only) 	Alternative if above are contraindicated or refused (oral treatment) Erythromycin OR Clarithromycin OR Trimethoprim (following Consultant advice, off-label**)	Adults: 500mg BD Children BNF 12+ years: forchildren Adults: 250mg BD Children BNF 12+ years: forchildren Adults: 300mg BD Children BNF 12+ years: forchildren Adults: 300mg BD Children BNF 12+ years: forchildren	Assess after 12 weeks	NICE NG198, Updated 2021 CKS Acne vulgaris
	 Only continue antibiotic treatment for more than 6 months in 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: 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 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 choices 	Children under 12 years Combination of adapalene/benzoyl peroxide 0.1%/2.5% OR if above contraindicated or refused f Benzoyl peroxide 5% AND IF NEEDED Erythromycin OR Clarithromycin	Children 9+ Image: Structure for children Children: OD - BD Image: Structure for children Children: 500mg BD Image: Structure for children Children: 250mg BD (weight ≥ 30kg) Image: Structure for children	Review at 6-8 weeks. Continue for 3 months max	
	led team. P • Consider maintenance treatment in people with a history of frequent relapse after treatment. P • Consider a fixed combination of topical adapalene and topical benzoyl peroxide as maintenance treatment for acne. If this is not tolerated, or if 1 component of the combination is contraindicated, consider topical monotherapy with adapalene, azelaic acid, or benzoyl peroxide B • Review maintenance treatments for acne after 12 weeks to decide if they should continue. B *useful in reducing risk of hyperpigmentation in individuals with darker skin B **See the General Medical Council's Good practice in prescribing and managing medicines and devices for further information E	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	Adults: Apply thinly once daily, in the evening Adults: OD or BD Adults: OD or BD Adults: 500mg BD	Review at 6-8 weeks. Continue for 3 months max	
1	† NB: Changes made following IMOC to provide clarity	Clarithromycin	Adults: 250mg BD		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	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 题识序 for children		
	 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 	If infection near the eyes or nose consider discussing with microbiologist Oral: Co-amoxiclav (Penicillin based antibiotic)	Adults: Children:	500/125mg TDS	7 days	
	 days The person is very unwell, has severe pain, or redness or swelling beyond the initial presentation Refer to hospital if there are symptoms or signs of a more serious illness or condition such as orbital cellulitis, osteomyelitis, septic 	<u>Penicillin allergy or co-amoxiclav</u> <u>unsuitable:</u> Oral: Clarithromycin AND	Adults: Children:	500mg BD 图NF for children		
	 arthritis, necrotising fasciitis or sepsis. Consider referring or seeking specialist advice if the person: Is severely unwell or has lymphangitis 	Oral Metronidazole	Adults: Children:	400mg TDS 國政序 forchildren		
	 Has infection near the eyes or nose 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	<u>piotics required</u> discuss with mic	robiologist	
	 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	 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 spreading infection not responding to oral antibiotics Cannot take oral antibiotics MRSA colonised/infection in last 24 months 	Medications 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			
	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	Madiantiana	ADULT dose	Duration of	References &
intection	Comments	Medications	for child's doses click on	treatment	Useful links
Diabetic foot	All diabetic foot wounds are likely to be colonised with bacteria. Do not offer antibiotics to <i>prevent</i> diabetic foot infections. Diabetic foot infection has at least 2 of: Local swelling or induration Erythema Local tenderness or pain Local warmth Purulent discharge Start antibiotic treatment as soon as possible. Take samples for microbiological testing before, or as close as possible to, the start of treatment. When choosing an antibiotic, take account of: The severity of infection The risk of complications Previous microbiology results	Mild infection First line Oral: Doxycycline OR Oral: Clarithromycin AND Oral: Metronidazole (In pregnancy): Oral: Erythromycin AND Oral: Metronidazole	Adults: 200mg on first day, then 100mg OD (can be increased to 200mg OD) Adults: 500mg BD Adults: 400mg TDS Adults: 500mg QDS Adults: 400mg TDS	Treatment 7 days then review (full resolution is not expected); if slow response, continue for a further 7 days.	Useful links NICE NG19, Updated 2019 NICE NG19, visual summary
	 Previous intributiogy results Previous antibiotic use Patient preference Severity is classed as: Mild = local infection with 0.5cm to less than 2cm erythema or involving deeper structures (e.g. abscess, osteomyelitis, septic arthritis or fasciitis). Severe = local infection with signs of a systemic inflammatory response Refer to hospital immediately and Inform multidisciplinary foot care service if severe infection with five or life threathening problems e.g ulceration with fever/any signs of sepsis /limb ischaemia, suspected deep-seated soft tissue or bone infection, gangrene).For all other active diabetic foot problems, refer to foot service within 1 working day. 	Moderate infection First line Oral: Co-amoxiclav (Penicillin based antibiotic) AND Oral: Metronidazole Penicillin allergy: Oral: Co-trimoxazole (off-label indication, see BNF for patient monitoring parameters) AND Oral: Metronidazole	Adults:625mg TDS*Adults:400mg TDSAdults:960mg BDAdults:400mg TDS	Minimum 7 days and up to 6 weeks for osteomyelitis.	
	 Seek Microbiologist advice when prescribing antibiotics for a suspected diabetic foot infection in children and young people under 18 years. MRSA infection suspected or confirmed IV treatment required When prescribing antibiotics for a diabetic foot infection, give advice about Possible side effects of the antibiotic(s) Seeking medical help if symptoms rapidly or significantly at any time, or do not start to improve within 1 to 2 days. Reassess if symptoms rapidly or significantly at any time, or do not start to improve sores, gout or non-infected ulcers Symptoms or signs suggesting something more serious such as limb ischaemia , osteomyelitis, necrotising fasciitis or sepsis 	If Pseudomonas aeruginosa suspected or confirmed discusss with Microbiologist Oral: Clindamycin AND Oral: Ciprofloxacin (consider safety issues)	Adults: 150 to 300mg QDS (can be increased to 450mg QDS) Adults: 500mg BD		July 2020

Infection	Comments	Medications	for	ADULT dose child's doses click on	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, 	<u>First line: Prophylaxis/treatment for</u> <u>both Human and Animal bites:</u> Oral: Co-amoxiclav (Penicillin based antibiotic)	Adults: Children:	375 mg - 625mg 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 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 	Alternative to co-amoxiclav for adults and young people aged 12 to 17 years Oral: Metronidazole AND Oral: Doxycyline	Adults: Children: Adults:	400mg TDS	3 days for prophylaxis 5 days for treatment*	
	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). Cat bite Offer antibiotic prophylaxis if the cat bite has broken the skin	Alternative in pregnancy	Children: Seek specia	200mg OD		-
 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 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 	<u>Alternative to co-amoxiclav for</u> <u>children under 12 years</u> Co-trimoxazole (off-label – consider safety issues)	Children:	BNF for children	3 days for prophylaxis 5 days for treatment*		
	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	Bladiantiana		ADULT dose	Duration of	References &
intection	Comments	Medications	for c	child's doses click on	treatment	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 Reasses 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 bacteria 	Give self care advice – see comments s If there are symptoms or signs of infec cellulitis and erysipelas section of this	section ction, see the			Useful links NICE NG182 Updated 2020 NICE NG182, visual summary NICE CKS: Insect bites and stings Mar 2022
Scabies	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	<u>First Line:</u> Permethrin 5% cream <u>Second Line:</u> Malathion 0.5% aqueous liquid	Adults and Children	Apply once weekly for 2 doses, then wash off after 8–12 hours. If hands are washed with soap within 8 hours of application, they should be treated again with cream.	2 applications, 1 week apart	PHE context references and rationale Oct 2018 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.	<u>First line:</u> Oral: Flucloxacillin (Penicillin based antibiotic)	Adults:	500mg QDS		PHE context references and rationale Oct 2018
	Breastfeeding: oral antibiotics are appropriate, where indicated. Advise the woman to continue breastfeeding if possible (including from the affected breast)	Penicillin allergy: Oral: Erythromycin OR	Adults:	250mg-500mg QDS		
		Oral: Clarithromycin	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	<u>First Line:</u> 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 (coola cingworm) 	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 ringworm)		<u>If intractable, or scalp</u> Oral: Terbinafine OR Oral: Itraconazole	Adults: 250mg OD Children: BNF torchildren Adults: 100mg OD Children: BNF	4-6 weeks 15 days then review	
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 reported0.1 to 1% with oral antifungals. If candida or non-dermatophyteinfection is confirmed, use oral itraconazole.Topical nail lacqueris not as effective.Stop treatment when continual, new, healthy, proximal nailgrowth	<u>First Line</u> Oral: Terbinafine <u>Second line:</u> Oral: Itraconazole	Children: BNF Adults: 250mg OD Children: BNF Adults: 200mg BD for 7 days per Children: month	Fingers: 6 wks Toes: 12 wks Fingers: 2 courses	Oct 2018 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

(chicken pox) & advice immur (shingles) Oral th variabl month usually Chicke hours,	gnant/immunocompromised/neonate: seek urgent specialist ce. Regardless of immune function and the use of any nunoglobulins, neonates with chickenpox should be treated a parenteral antiviral to reduce the risk of severe disease. I therapy in children is not recommended as absorption is able. Chickenpox in otherwise healthy children between 1 nth and 12 years is usually mild and antiviral treatment is not ally required	If indicated: First line Oral: Aciclovir Second line for shingles if poor	Adults: Children:	800mg FIVE times a day	7 days	PHE context references and rationale Oct 2018
variab month usually Chicke hours,	able. Chickenpox in otherwise healthy children between 1 ath and 12 years is usually mild and antiviral treatment is not ally required					
• so • d • ta	<pre>ckenpox: consider acyclovir if: onset of rash less than 24 rs, and 1 of the following: >14 years of age as Chickenpox is more severe in adolescents than in children; severe pain; dense/oral rash; taking steroids; smoker</pre>	<u>compliance:</u> Oral: Famciclovir – not suitable for children (high cost drug) OR	Adults:	500mg TDS or 750mg BD	7 days	
Shingle <50 ye Shingle antivir shingle	 Ramsay Hunt syndrome; Eczema; Non-truncal involvement; Moderate or severe pain; 	Oral: Valaciclovir (high cost drug)	Adults: Children:	1g TDS ENF torchildren	7 days	Oct 2018

Infection	Comments	Medications	ADULT dose for child's doses click on	Duration of treatment	References & Useful links
Lyme disease with erythema migrans	 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 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 	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) Alternative if doxycycline is not suitable (e.g. pregnancy): Oral: Amoxicillin (Penicillin based antibiotic) Alternative if doxycycline and amoxicillin are not suitable: Oral: Azithromycin Do not use azithromycin to treat people with cardiac abnormalities associated with Lyme disease because of its effect	Adults: 200mg OD Or 100mg BD Children 6+ Image: Children years: Image: Children Adults: 1g TDS Children: Image: Children Adults: 500mg OD Children: Image: Children Adults: 500mg OD Children: Image: Children	21 days 21 days 17 days	NICE NG95 updated Oct 2018 PHE context references and rationale May 2021 CKS Lyme disease
		on QT interval			Jul 2022

Infection MRSA decolonisation (Suppression)	Comments GPs may be asked to screen and decolonise patients e.g. a patient attending Croydon University Hospital (CUH). Croydon Health Servi patients if they are MRSA positive.	ces Trust (CHS) has pre-admission clinics	GPs should no to select and s	creen patients for MRSA and to c	le-colonise	References & Useful links For MRSA screening and suppression (decolonisation),
	Screen positive results available after discharge CUH: The Departm decolonisation treatment. Therefore the positive MRSA screen resulteam) with advice to offer the patient decolonisation treatment. To and/or replace invasive devices and treat skin breaks. Where necess dermatitis). Use both nasal and skin regimens.	ults available after a patient has been disc o reduce persistent MRSA carriage, treat u ssary, seek advice from Dermatologist (an	harged will be Inderlying skin	e faxed to a patient's GP (by the in a conditions (e.g. eczema, dermat	nfection control itis), remove	please see full Croydon MRSA 2012 Guide:
	 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 	First Line: Topical: 2% Mupirocin nasal ointment (Bactroban®) If MRSA resistant to mupirocin:	Adults:	TDS	5 days	
	 resistance. Mupirocin should not be given until a positive MRSA result is confirmed 	Topical: Chlorhexidine hydrochloride 0.1%+ Neomycin sulfate 0.5% nasal cream (Naseptin [®]) (NB avoid in patients with peanut allergy)	Adults:	QDS	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	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. Treat only if severe, as most cases are viral or self-limiting. 	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
	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.	Topical: Chloramphenicol 1% ointment	Adults and Children over 1 month old:	Apply daily, at night		
	 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. 	(Pregnancy and breastfeeding - Avoid chloramphenicol unless essential) (Neonates - Avoid chloramphenicol unless essential)				
	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	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	Duration of treatment	Referances & Useful links
DENTAL INFECTIO	NS TREATED IN PRIMARY CARE OUTSIDE DENTAL SE	TTING				
Patients presenting details of how to a	cottish Dental Clinical Effectiveness Programme (SDCEP) 2013 G to non-dental primary care services with dental problems shoul ccess emergency dental care. cure toothache. First line pain treatment is with paracetamol an	d be directed to their regular dentist, o	or if this is no	t possible, to the NHS 111 service (in Englan		
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) OR Topical: Hydrogen peroxide 6%	Adults & Children: 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 Forchidren Rinse mouth with 15ml diluted in in ½ glass warm water for 2 – 3 mins BD - TDS	Always spit out after use. Use until lesions resolve or less pain allows oral hygiene	PHE context references and rationale Oct 2018
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 Topical: Hydrogen peroxide 6%	Adults: Children: Adults: Children:	Rinse mouth with 10 mL BD for about 1 minute BNF forchildren Rinse mouth with 15ml diluted in in ½ glass warm water for 2 – 3 mins BD - TDS BNF forchildren	Always spit out after use. Until pain allows for oral hygiene	PHE context references and rationale Oct 2018
		Oral: Metronidazole	Adults: Children:	400mg TDS	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	3 days	PHE context references and rationale Oct 2018
		Oral: Amoxicillin (Penicillin based antibiotic)	Adults: Children:	500mg TDS	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 BNF forchildren	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 ENF forchildren	Until pain allows for oral hygiene	Nov 2017
Dental abscess	alone, without drainage, are ineffective in preventing the spread of infection. Antibiotics are only recommended if there are signs of severe infection, systemic symptoms, or a high risk					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	
		<u>If severe:</u> ADD Oral: Metronidazole	Adults: Children:	400mg TDS BNF forchildren	Upto 5 days – review day 3	
		If penicillin allergy: Oral: Clarithromycin	Adults: Children:	500mg BD	Upto 5 days – review day 3	
						Nov