

#### **BNSSG Antimicrobial Prescribing Guideline – Summary**

These summary guidelines are to be used alongside the full BNSSG antimicrobial prescribing guidelines and do not cover every infection in the full guidelines. The links take you to the appropriate section of the full guideline

Infection	Comment	Antibiotic	Penicillin Allergy	Course Length	
Meningitis – see full g	uideline				
Upper respiratory trac	<u>ct infections</u>				
Sore throat/ Pharyngitis/	Avoid antibiotics Delayed antibiotics	Penicillin V	Clarithromycin Or Erythromycin if	5-10 days Pen V 5 days Clarith and	
Tonsillitis	Delayed antibiotics		pregnant	Eryth	
Acute otitis media	Target antibiotics	Amoxicillin	Clarithromycin	5 days	
Acute sinusitis	Avoid antibiotics Delayed antibiotics	Penicillin V	Doxycycline or Clarithromycin	5 days	
Lower respiratory trac	t infections				
Acute cough,	Avoid antibiotics Delayed antibiotics	Adults: Doxycyclir Children: Amoxici		5 days	
Acute exacerbation COPD		Amoxicillin	Doxycycline or Clarithromycin	5 days	
Acute exacerbation of bronchiectasis		Amoxicillin	Doxycycline	7-14 days	
Community acquired pneumonia		Amoxicillin	Adult: Doxycycline Child: Clarithromycin	5 days	
Urinary tract infection	IS		Cilia. Claritinomycin		
UTI adults (not pregnant)	First line	Nitrofurantoin or risk of resistance	Trimethoprim if low and <75 years	Women 3 days Men 7 days	
	eGFR <45ml/min low risk of resistance	Trimethoprim			
	eGFR <45ml/min Increased risk of resistance	Pivmecillinam (a penicillin)	Not type 1 allergy – Cefalexin Type 1 allergy - Fosfomycin	Piv – 3 days M&W Cef - Women 3d Men 7 d Fos – stat (2 <sup>nd</sup> dose men)	
Acute Prostatitis		Ciprofloxacin or C	Ofloxacin (if STI)	14 days then review	
Acute Pyelonephritis (not pregnant)		Cefalexin or Co-amoxiclav	Ciprofloxacin	7-10 days Cef and Co-amox 7 days Cipro	
UTI in children > 3 months	Lower UTI	First UTI – Trimet Second UTI withir	hoprim n a year - Cefalexin	3 days	
	Upper UTI	Cefalexin		7-10 days	
Gastro-intestinal Trac		guideline			
<b>Genital Tract Infection</b>	<u>ıs</u> – see full guideline	-			
Skin Infections		1		1	
Cellulitis		Flucloxacillin	Clindamycin (risk assess for C dif)	5 days	

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#### Aims-

- □ To provide a simple, effective, economical and empirical approach to the treatment of common infections.
- ☐ To target the use of antibiotics and antifungals in primary care
- ☐ To minimise the emergence of bacterial resistance in the community.

#### **Principles of Treatment**

- 1. This guidance is based on the best available evidence but professional judgement should be used and patients should be involved in the decision.
- 2. It is important to initiate antibiotics as soon as possible in severe infection.
- 3. A dose and duration of treatment for adults is usually suggested, but may need modification for age, weight and renal function. Children's doses are provided when appropriate. Refer to BNF for further dosing and interaction information (e.g. interaction between macrolides and statins) and check for known hypersensitivity in patient records and with patients or carers.
- 4. Type 1 penicillin allergy is an obvious allergic reaction with swelling of the lips and tongue, itchy, lumpy rash, difficulty breathing. If there is a type 1 anaphylactic reaction to penicillins do not give penicillins or cephalosporins or beta-lactams of any kind.
- 5. Lower threshold for antibiotic use in immunocompromised or those with multiple morbidities; consider culture and seek advice
- 6. Prescribe an antibiotic only when there is likely to be a clear clinical benefit.
- 7. Consider a 'no antibiotic' strategy or delayed antibiotic strategy for acute self-limiting URTI and mild UTI symptoms.
- 8. Limit prescribing over the telephone to exceptional cases.
- 9. Use simple generic antibiotics if possible. Avoid broad spectrum antibiotics (e.g. co-amoxiclav, quinolones and cephalosporins) when narrow spectrum antibiotics remain effective, as they increase risk of *Clostridium difficile*, MRSA and resistant UTIs.
- 10. Avoid widespread use of topical antibiotics (especially those agents also available as systemic preparations, e.g. fusidic acid).
- 11. In pregnancy, take specimens to inform treatment, use this guidance alternative or seek expert advice. Penicillins and cephalosporins are not associated with increased risks. If possible, avoid tetracyclines, quinolones, aminoglycosides, azithromycin, clarithromycin, high dose metronidazole (2g stat) unless the benefits outweigh the risks. Short-term use of nitrofurantoin is not expected to cause foetal problems (theoretical risk of neonatal haemolysis). Trimethoprim is also unlikely to cause problems unless poor dietary folate intake or taking another folate antagonist. Erythromycin is generally thought to be ok in pregnancy but in the first trimester only use if benefits outweigh the possible risks. UK Teratology Information Centre 20344 892 0909
- 12. Microbiological advice can be obtained from secondary care trusts The NBT and UHB and virology 0117 4146222 (option 1 GP bacteriology, option 4 virology) The Weston Hospital 01934 647053

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ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT				
Upper Respira	Upper Respiratory Tract Infections							
Influenza treatment PHE Influenza For prophylaxis see: NICE Influenza and PHE Influenza	Annual vaccination is essential for all those at risk of it Treat 'at risk' patients with uncomplicated influenza videally within 48 hours of onset (36 hours for zanamivid likely. At risk: pregnant (including up to two weeks posidisease (including COPD and asthma) significant cardiochronic neurological, renal or liver disease, morbid obe immunosuppression and dose adjustments (and seek a See PHE Influenza guidance for treatment of patients under the second seek and the second second seek and the second secon	vith oseltamivir 75mg BD for 5 day r treatment in children) (do not wa t-partum), children under six moni vascular disease (not hypertension sity (BMI≥40). See <u>PHE Influenza</u> g idvice).	s when influenza is circulating in iit for lab report) or in a care hom ths, adults 65 years or over, chro ı), severe immunosuppression, d	the community and ne where influenza is nic respiratory iabetes mellitus,				
Sinusitis (acute) (Purulent nasal discharge, facial pain, unwell) NICE Sinusitis	Symptoms <10 days do not offer antibiotics as most resolve in 14 days without and antibiotics only offer marginal benefit after 7 days  Symptoms >10 days with no improvement: no antibiotic or back-up antibiotic if several of purulent nasal discharge, severe localised unilateral pain (particularly over teeth and jaw), fever, marked deterioration after initial milder phase.  Systemically very unwell or more serious signs and symptoms or has high risk of complications: immediate antibiotic  Suspected complications e.g. sepsis, intraorbital, periorbital or intracranial, refer to secondary care	No antibiotics: self-care  First line for delayed prescription: Phenoxymethylpenicillin  Penicillin allergy or intolerance: Doxycycline Clarithromycin	500mg QDS  200mg stat then 100mg od 500mg BD	5 days 5 days 5 days				
	Self-care: paracetamol/ ibuprofen for pain/fever. Consider high-dose nasal steroid if >12 years Nasal decongestants or saline may help some	Very unwell or worsening:  Co-amoxiclav  Mometasone	625mg TDS  200micrograms BD	5 days				

Note: Doses are oral and for adults (unless stated). Please refer to BNF or BNF for children (BNFc) for further information

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ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
Acute sore throat/ Pharyngitis/ Tonsillitis (Purulent tonsils,	FeverPAIN 0-1: no antibiotic FeverPAIN 2-3: no or back-up antibiotic FeverPAIN 4-5: immediate or back-up antibiotic Systemically very unwell or high risk of complications: immediate antibiotic	Self-care: paracetamol or ibuprofen, adequate fluids, some evidence of medicated lozenges in adults Phenoxymethylpenicillin	500 mg QDS or 1g BD (if mild) 500mg QDS when severe	5-10 days
fever, tender lymph nodes, no cough.) FeverPAIN  NICE sore throat	Back-up prescription: use if no improvement in 3-5 days or symptoms worsen.  Safety net: seek medical help if symptoms worsen rapidly or significantly or the person becomes very unwell. Or no improvement after 1 week if no antibiotic given	Penicillin allergy: Clarithromycin  Pregnant and penicillin allergy	250mg BD If severe: 500mg BD	5 days
	If Group A Streptococcus is grown from throat swab	Erythromycin	500mg QDS	5 days
	then ensure 10 days of phenoxymehtylpenicillin is received.		4h, <b>P</b> urulence, <b>A</b> ttend rapidly 3d c ryza).	r less, severely
	Feverpain is an appropriate tool for children from 3 years of age  Where appropriate for older children doses should be rounded up to the nearest capsule size.	Self-care: paracetamol or ibupro Phenoxymethylpenicillin 1 month-12 years: 12.5mg/kg ≥12 years: 500mg QDS	·	5-10 days
		If poor compliance is anticipated Amoxicillin ≥1 month: 30mg/kg (max 500r	5 days	
		Penicillin allergic Clarithromycin Child 1 month–11 years:	5 days	
		Body-weight under 8 kg: 7.5 mg, Body-weight 8-11 kg: 62.5 mg Bl Body-weight 12–19 kg: 125 mg B		
		Body-weight 20–29 kg: 187.5 mg Body-weight 30–40 kg: 250 mg E		
		Child ≥12 years: 250 -500mg BD		
Acute Otitis Externa Remedy otitis	Ear swabs for microbiology are rarely helpful in primary care and not indicated for non-complicated otitis externa.	Mild cases:  Topical Acetic acid 2% spray  Moderate/severe cases:	One spray TDS	7 days
externa page	First line: analgesia for pain relief and advise to keep the ear clean and dry.	Betnesol-N	Three drops TDS	
CKS otitis externa	Oral/systemic antibiotics should only be considered (in addition to topical therapy) for cases of infection	Otomize	One spray TDS	
	outside of the ear canal (cellulitis).  All cases of suspected malignant/necrotising externa	If a fungal infection (suspected or confirmed on swab):		
	should be referred to secondary care for urgent assessment	Clotrimazole 1% solution	Three drops TDS	Until 2 weeks after infection has
	Other antibiotic/steroid ear drops are available on formulary and can be used if Betnesol-N or Otomize	If cellulitis Flucloxacillin	250mg QDS	improved
	are not available or contra-indicated (e.g. patent grommet or tympanic membrane perforation.)	T IUCIOXACIIIII	If severe: 500mg QDS Children see the cellulitis section	5-7 days

ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
Acute Otitis Media (AOM)- Child (Ear pain, bulging red ear drum, unwell) NICE Otitis media (acute)	Optimise analgesia and target antibiotics Otorrhoea (discharge after ear drum perforation) in any child or young person or under 2 years with infection in both ears: no, back-up or immediate antibiotic Otherwise: no or back-up antibiotic Systemically very unwell or high risk of complications: immediate antibiotic Back up prescription: use if no improvement in 3 days or symptoms worsen Safety netting: seek medical help if symptoms worsen rapidly or significantly or becomes very unwell. Or if no antibiotic, do not start to improve after 3 days.  If antibiotic not given, no eardrum perforation/otorrhoea and oral analgesia is insufficient Lidocaine/ phenazone ear drops (Otigo®) 4 drops 2-3 times daily can be prescribed for relief of pain and local symptomatic treatment. Advise to discontinue if ear discharge develops.	Amoxicillin  >7 days: 30mg/kg (max 500mg/dose) TDS  Where appropriate for older children doses should be rounded up to the nearest capsule size.  Penicillin allergy: Clarithromycin Child 1 month–11 years: Body-weight under 8 kg: 7.5 mg/kg BD Body-weight 8-11 kg: 62.5 mg BD Body-weight 12–19 kg: 125 mg BD Body-weight 20–29 kg: 187.5 mg BD Body-weight 30–40 kg: 250 mg BD Child ≥12 years: 250 -500mg BD		5 days
Scarlet fever PHE Scarlet fever	Notifiable disease  Prompt treatment with appropriate antibiotics significantly reduces the risk of complications.  Observe immunocompromised individuals (diabetes, women in the puerperal period, chickenpox) as they are at increased risk of developing invasive infection	Phenoxymethylpenicillin  Penicillin allergy: Clarithromycin	500mg QDS 250-500mg BD	10 days 5 days
	Where appropriate for older children doses should be rounded up to the nearest capsule size.	Phenoxymethylpenicillin 1 month-12 years: 12.5mg/kg (max 500mg/dose) QDS >12 years: 500mg QDS  If poor compliance is anticipated in children  Amoxicillin >1 month: 30mg/kg (max 500mg/dose) TDS  Penicillin allergic Clarithromycin Child 1 month−11 years: Body-weight under 8 kg: 7.5 mg/kg BD  Body-weight 8-11 kg: 62.5 mg BD  Body-weight 12−19 kg: 125 mg BD  Body-weight 20−29 kg: 187.5 mg BD  Body-weight 30−40 kg: 250 mg BD  Child ≥12 years: 250 -500mg BD		10 days
				5 days

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ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
Lower Respira	tory Tract Infections			
· · · · · · · · · · · · · · · · · · ·	penicillins are more likely to select out resistance. Do <b>no</b> ties (including levofloxacin) for proven resistant organism		oxacin) first line due to poor pneun	nococcal activity.
Acute Cough	Acute cough with upper respiratory tract infection no antibiotic	Adults first choice Doxycycline	200mg on day 1 then 100mg od	5 days
NICE Courb	Acute bronchitis no antibiotic	Adults alternative:	200mg on day 1 then 100mg od	3 days
NICE Cough	Acute cough and higher risk of complications (at	Amoxicillin	500 mg TDS	5 days
	face-to-face examination): immediate or back up	Clarithromycin	250-500mg BD	5 days
	antibiotic  Acute cough and systemically very unwell (at face- to-face examination): immediate antibiotic	Or if pregnant Erythromycin	250-500mg QDS	5 days
	Higher risk of complications includes:	Amoxicillin		5 days
		>1 month: 30mg/kg (max 500	Omg/dose) TDS	Judys
	<ul> <li>people with pre-existing comorbidity (significant heart, lung, renal, liver, or neuromuscular disease, immunosuppression or cystic fibrosis)</li> </ul>	Where appropriate for older rounded up to the nearest ca	children doses should be	
	<ul> <li>young children born prematurely</li> </ul>	alita li ii		
	people over 65 with 2 or more of, or over	Children alternative:		
	80 with 1 or more of: hospitalisation in	Clarithromycin		5 days
	previous year, type 1 or 2 diabetes,	Child 1 month–11 years:	g/kg PD	
	history of congestive heart failure, current use of oral corticosteroids.	Body-weight under 8 kg: 7.5 mg		
	For prescribing antibiotics in adults with acute	Body-weight 8-11 kg: 62.5 mg E		
	bronchitis who have had a CRP test. If CRP <20mg/L	Body-weight 12–19 kg: 125 mg		
	no antibiotics, 20-100mg/L back-up antibiotics,	Body-weight 20–29 kg: 187.5 m		
	>100mg/L immediate antibiotics	Body-weight 30–40 kg: 250 mg	טס	
	Pertussis: suspect in patients with a cough lasting 14	Child ≥12 years: 250 -500mg BD		
	days or more without apparent cause plus one of the	230 -300mg DD		
	following: paroxysms of coughing; inspiratory 'whoop', post-tussive vomiting. See <u>UKHSA Testing</u>			
	for pertussis in primary care. If suspected and within			
	14 days of onset (or 21 days if there is a close			
	contact who falls into priority 1 for public health action or is pregnant see Guidance on the			
	management of cases of pertussis) treat with			
	Clarithromycin or Erythromycin if pregnant for 7 days. Notifiable disease			
	In infants and toddlers with a dry cough consider bronchiolitis (no antibiotics needed)			
	In infants and toddlers with a barking cough consider croup (no antibiotics needed)  Many exacerbations are not caused by bacterial			
Acute	infections so will not respond to antibiotics. Consider	First-line:	500 700	
xacerbation	an antibiotic, but only after taking into account	Amoxicillin	500 mg TDS	5 days
of COPD Purulent	severity of symptoms (particularly sputum colour changes and increases in volume or thickness), need	or Doxycycline	200 mg stat then 100 mg OD	5 days
putum, cough	for hospitalisation, previous exacerbations,	or Clarithromycin  Second line:	500 mg BD	5 days
vorse, chest	hospitalisations and risk of complications, previous	Use alternative first choice		
igns and	sputum culture and susceptibility results, and risk of resistance with repeated courses.	If at risk of treatment failure:		
vorsening		Co-amoxiclav	625 mg TDS	5 days
lyspnoea)	People higher risk of treatment failure: repeated	If penicillin allergic:	023 mg 193	Jacys
NICE COPD	courses of antibiotics, previous or current sputum	Co-trimoxazole	960 mg BD	5 days
BNSSG COPD	culture with resistant bacteria or people at higher	Unless recent sample to base		2 22,3
	risk of developing complications.  If recurrent exacerbations send sputum sample.	empiric therapy on. Ensure sample is sent and review treatment with results.		
cute	Send sputum sample for culture and sensitivity,	First-line (see comments):		
xacerbation	specify bronchiectasis patient on sputum form. Start antibiotics while awaiting result.	Amoxicillin	1 gram TDS	7-14 days
f	Treat following the patient's specific treatment plan			Review at 7
ronchiectasis	(if in place), based on recent culture results or as per	Penicillin allergy or on		days
ICEBronchiectasis	the first-line treatment stated on the guideline if neither available.	regular macrolide:		If no resolution
<u>NSSG</u>	See the BNSSG bronchiectasis guidelines if new	Doxycycline	100 mg BD	seek specialist advice
ronchiectasis	growth of or colonisation with <i>P.aeruginosa</i> .			

Note: Doses are oral and for adults (unless stated). Please refer to BNF or BNF for children (BNFc) for further information

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**ILLNESS COMMENTS MEDICINE ADULT DOSE DURATION OF TREATMENT** Community Where able use the CRB65 score to help guide and review in adults. Each scores 1: Confusion (AMT<8). Respiratory rate >30/min. BP systolic <90 or diastolic ≤60: Age >65 acquired pneumonia Score 0: suitable for home treatment Score 1-2: consider hospital assessment or admission particularly those with a score of 2 Score 3-4: urgent hospital admission **NICE Pneumonia** (Community Acquired) Diagnosing pneumonia during COVID-19 Covid-19 rapid Where physical examination and other ways of making an objective diagnosis are not possible the clinical diagnosis of CAP can be informed guideline: by other clinical signs or symptoms such as: managing Covid-19 Temperature above 38°C BNSSG primary care Respiratory rate above 20 breaths per minute assessment and Heart rate above 100 beats per minute management guidance for COVID New confusion and non-COVID Assessing shortness of breath is important patients – available The following signs and symptoms help to identify those with more severe illness and aid decision about hospital admission: on teamnet Shortness of breath at rest or difficulty breathing Collapse or fainting Coughing up blood New confusion Becoming difficult to rouse Blue lips or face Feeling cold or clammy with pale or mottled skin Little or no urine output See the BNSSG primary care assessment and management guidance for COVID and non COVID patients for more information. Antibiotics should not be offered if COVID-19 is If CRB65=0 likely to be the cause and symptoms are mild. Amoxicillin 500mg TDS 5 days Offer antibiotics if the likely cause is bacterial; if it is unclear if viral or bacterial and symptoms are If penicillin allergy: more concerning; if there is a high risk of Doxycycline 200mg day 1 then 100mg daily 5 days complications e.g. old or frail; pre-existing for 4 days comorbidity such as immunosuppression, significant heart or lung disease or history of If pregnant and allergic to severe illness following previous lung infection. penicillin Erythromycin 500mg QDS 5 days More likely a viral infection if: History of COVID-19 symptoms for about a week If allergic to penicillin and Severe muscle pain needing liquid or Loss of smell breastfeeding Breathlessness but no pleuritic pain 500mg BD 5 days Clarithromycin History of exposure to COVID-19 More likely a bacterial infection if: Rapidly unwell after only few days of symptoms If CRB65=1-2 and at home Does not have a history of typical COVID-19 (clinically assess need for symptoms dual therapy for atypicals if Pleuritic pain CRB65=2 ensure dual) Purulent sputum Amoxicillin 500mg TDS 5 days AND Clarithromycin 500mg BD 5 days Avoid clarithromycin if known cardiac issues as it Or Erythromycin (if pregnant) 500mg QDS 5 days can prolong QT interval or if the patient is on Or if penicillin allergic interacting medication Doxycycline 200mg day 1 then 100mg OD 5 days OR Clarithromycin alone 500mg BD Give safety-net advice and likely duration of 5 days (if pregnant discuss with symptoms e.g. cough 6 weeks microbiology) A wheeze in children is likely to be viral Amoxicillin 5 days >1 month: 30mg/kg (max 500mg/dose) TDS Where appropriate for older children doses Penicillin allergic: should be rounded up to the nearest capsule size. Clarithromycin 5 days Child 1 month-11 years: Body-weight under 8 kg: 7.5 mg/kg BD Body-weight 8-11 kg: 62.5 mg BD Body-weight 12-19 kg: 125 mg BD Body-weight 20-29 kg: 187.5 mg BD Body-weight 30-40 kg: 250 mg BD Child ≥12 years: 250 -500mg BD

Note: Doses are oral and for adults (unless stated). Please refer to BNF or BNF for children (BNFc) for further information

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ILLNESS	COMMENTS	MEDICINE	DOSE	DURATION OF TREATMENT
Pneumonia in Sirona Rehabilitation Units	Take into consideration previous pneumonia antibiotic treatment both in their rehabilitation and acute hospital stays	Doxycycline	200mg on first day then 100mg once daily	5 days
		Alternative		
		Co-trimoxazole	960mg BD	
Aspiration Pneumonia in Sirona	Aspiration of gastric contents leads to chemical pneumonitis for which antibiotic treatment is not required. Signs of infection emerge ≥48	Amoxicillin  If penicillin allergic	1gram TDS	
Rehabilitation Units	hours following aspiration and include purulent	Clarithromycin	500mg BD	5 days
Oilits	sputum.  Specific anti-anaerobic cover is not required.	If antibiotic use within the	300	Julys
		previous 2 weeks:		
		Co-trimoxazole	960mg BD	

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	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
Meningitis				
Prevention of sec 03003038162 (option	ondary case of meningitis: Only prescribe follo 1)	wing advice from the Public Heal	lth England South West (Rivergate)	
Suspected meningococcal	Transfer all patients to hospital immediately.	Benzylpenicillin or	1200 mg IV/IM	
disease  PHE Meningococcal disease  NICE meningitis	IF time before admission, and non-blanching rash, give IV or IM benzylpenicillin or ceftriaxone, unless definite history of anaphylaxis, rash is not a contraindication	Ceftriaxone	2 gram IV infusion over at least 30 minutes but if vein cannot be found give IM.	STAT dose
	IV administration preferred over IM	Benzylpenicillin	≥10 years: 1200 mg IV/IM 1 - 9 years: 600 mg IV/IM	
	IM ceftriaxone should be divided between two injection sites	<i>or</i> Ceftriaxone	1 month - 1 years: 300 mg IV/IM	
			Child ≥ 12 years:  2 gram IV infusion over at least 30 minutes but if vein cannot be found give IM.	
			Child 1 month-11 years & 50kg or more:	STAT dose
			2 gram IV infusion over at least 30 minutes but if vein cannot be found give IM.	
			Child 1 month-11 years & less than 50kg: 80mg/kg IV infusion over at	
			least 30 minutes but if a vein	
Urinary tract l	nfections		cannot be found give IM	
As <i>E. coli</i> bacto	eraemia in the community is increasion matic bacteriuria (except sometimes in pregnancy, sec	e below) there is no evidence of	et and consider risks for benefit.	resistance
Do not treat asympto Trimethoprim: May ca	eraemia in the community is increasion matic bacteriuria (except sometimes in pregnancy, security is entire to inhibition of tubular	e below) there is no evidence of	et and consider risks for benefit.	I
As E. coli bacto Do not treat asympto Trimethoprim: May co	eraemia in the community is increasion matic bacteriuria (except sometimes in pregnancy, sec	e below) there is no evidence of r secretion and may cause hyper Ciprofloxacin <i>or</i>	et and consider risks for benefit. rkalaemia. 500 mg BD	resistance  14 days then review
As E. coli bacto Do not treat asympto Trimethoprim: May co	matic bacteriuria (except sometimes in pregnancy, ser ause rise in serum creatinine due to inhibition of tubula Send MSU and start antibiotics Quinolones achieve higher prostate levels.  Review antibiotic treatment after 14 days and either stop antibiotics or continue for a further 14 days if needed (based on assessment of history,	e below) there is no evidence of	et and consider risks for benefit.	14 days then
As E. coli bacto Do not treat asympto Trimethoprim: May co	matic bacteriuria (except sometimes in pregnancy, secuse rise in serum creatinine due to inhibition of tubulation Send MSU and start antibiotics Quinolones achieve higher prostate levels.  Review antibiotic treatment after 14 days and either stop antibiotics or continue for a further 14	e below) there is no evidence of r secretion and may cause hyper Ciprofloxacin or Ofloxacin (Ofloxacin if STI suspected) Alternative if unable to take	et and consider risks for benefit. rkalaemia. 500 mg BD	14 days then review 14 days then
As E. coli bacto Do not treat asympto Trimethoprim: May co	matic bacteriuria (except sometimes in pregnancy, secuse rise in serum creatinine due to inhibition of tubulations of series in serum creatinine due to inhibition of tubulations of series in serum creatinine due to inhibition of tubulations of series in serum creatinine due to inhibition of tubulations of series in serum creatinine due to inhibition of tubulations of tubulations of series in serum creatinine due to inhibition of tubulations achieve higher prostate levels.  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)  Consider STI screen (gonorrhoea / Chlamydia) and	e below) there is no evidence of r secretion and may cause hyper Ciprofloxacin or Ofloxacin (Ofloxacin if STI suspected) Alternative if unable to take a fluoroquinolone:	et and consider risks for benefit.  rkalaemia.  500 mg BD 200 mg BD	14 days then review 14 days then review 14 days then
As E. coli bacto Do not treat asympto Trimethoprim: May co	matic bacteriuria (except sometimes in pregnancy, services in serum creatinine due to inhibition of tubulations	e below) there is no evidence of r secretion and may cause hyper Ciprofloxacin or Ofloxacin (Ofloxacin if STI suspected) Alternative if unable to take a fluoroquinolone: Trimethoprim  If clinical evidence of pyelonephritis treat as acute pyelonephritis below	et and consider risks for benefit.  rkalaemia.  500 mg BD 200 mg BD	14 days then review 14 days then review 14 days then
As E. coli bactor Do not treat asympto Trimethoprim: May ca Acute Prostatitis NICE prostatitis  UTI in Catheterised patients NICE UTI catheter	matic bacteriuria (except sometimes in pregnancy, services in serum creatinine due to inhibition of tubulations of services in serum creatinine due to inhibition of tubulations of services in serum creatinine due to inhibition of tubulations of tubulations of tubulations of the services in serum creatinine due to inhibition of tubulations of tubulat	e below) there is no evidence of r secretion and may cause hyper Ciprofloxacin or Ofloxacin (Ofloxacin if STI suspected) Alternative if unable to take a fluoroquinolone: Trimethoprim  If clinical evidence of pyelonephritis treat as acute pyelonephritis below Lower UTI First-line – if cannot wait for sensitivity: Nitrofurantoin	et and consider risks for benefit.  rkalaemia.  500 mg BD 200 mg BD	14 days then review 14 days then review 14 days then
As E. coli bactor Do not treat asymptor Trimethoprim: May control Acute Prostatitis NICE prostatitis  UTI in Catheterised patients NICE UTI catheter associated  BNSSG UTI care	matic bacteriuria (except sometimes in pregnancy, seruse rise in serum creatinine due to inhibition of tubulate Send MSU and start antibiotics Quinolones achieve higher prostate levels.  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)  Consider STI screen (gonorrhoea / Chlamydia) and consider referral to GUM.  MHRA Fluroquinolone warning  Fluroquinolone patient information leaflet  Do NOT treat or send routine catheter specimens unless systemically unwell or evidence of pyelonephritis. State symptoms on sample request e.g. fever, loin pain, new confusion and that catheter present. Consider referral to secondary care if symptoms are severe e.g. nausea, vomiting, reduced urine output.  Take sample if new onset of delirium or one or more symptoms of UTI	e below) there is no evidence of r secretion and may cause hyper Ciprofloxacin or Ofloxacin (Ofloxacin if STI suspected) Alternative if unable to take a fluoroquinolone: Trimethoprim  If clinical evidence of pyelonephritis treat as acute pyelonephritis below Lower UTI First-line – if cannot wait for sensitivity: Nitrofurantoin Or Trimethoprim	et and consider risks for benefit. rkalaemia.  500 mg BD 200 mg BD 200 mg BD	14 days then review 14 days then review 14 days then review
As E. coli bactor Do not treat asymptor Trimethoprim: May contribute the contribu	matic bacteriuria (except sometimes in pregnancy, services in serum creatinine due to inhibition of tubular services in serum creatinine due to inhibition of tubular services in serum creatinine due to inhibition of tubular services in serum creatinine due to inhibition of tubular services in serum creatinine due to inhibition of tubular services in services achieve higher prostate levels.  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)  Consider STI screen (gonorrhoea / Chlamydia) and consider referral to GUM.  MHRA Fluroquinolone warning Fluroquinolone patient information leaflet  Do NOT treat or send routine catheter specimens unless systemically unwell or evidence of pyelonephritis. State symptoms on sample request e.g. fever, loin pain, new confusion and that catheter present. Consider referral to secondary care if symptoms are severe e.g. nausea, vomiting, reduced urine output.  Take sample if new onset of delirium or one or	e below) there is no evidence of r secretion and may cause hyper Ciprofloxacin or Ofloxacin (Ofloxacin if STI suspected) Alternative if unable to take a fluoroquinolone: Trimethoprim  If clinical evidence of pyelonephritis treat as acute pyelonephritis below Lower UTI First-line – if cannot wait for sensitivity: Nitrofurantoin Or	et and consider risks for benefit. rkalaemia.  500 mg BD 200 mg BD 200 mg BD	14 days then review 14 days then review 14 days then review 7 days

Note: Doses are oral and for adults (unless stated). Please refer to BNF or BNF for children (BNFc) for further information

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ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
UTI in adults (lower)  Symptoms: Dysuria, Frequency, Suprapubic tenderness, urgency, polyuria, haematuria	See lower UTI guideline for diagnosis details Always safety net.  Give Target UTI leaflet Older Adults In treatment failure: always perform culture, second-line treatment choice depends on sensitivity of organism isolated. When sending samples state antibiotics started empirically, so sensitivity of isolated organisms to agent prescribed can be checked.	1st line Nitrofurantoin Or if low risk of resistance and < 75 years Trimethoprim  If eGFR <45ml/min and Low risk of resistance: Trimethoprim If eGFR <45ml/min and high	100mg MR BD 200mg BD 200mg BD	Nitrofurantoin, Trimethoprim and Cefalexin Women 3 days Men 7 days  Pivmecillinam Men and Women
PHE URINE NICE UTI  BNSSG Lower UTI guidelines  BNSSG Care Home UTI Form	Pivmecillinam dose should be increased to 400mg tds if an Extended spectrum beta-lactamase (ESBL) producer is identified on culture and sensitivities  Prescribing for trans people should be based on anatomy and will need to take account of any gender reassignment surgery and whether there has been structural alteration of the person's urethra	risk of resistance or second line:  Not penicillin allergic Pivmecillinam Penicillin allergic (not type 1) Cefalexin Penicillin allergic (type 1) Fosfomycin	400mg stat then 200mg TDS 500mg BD 3 grams stat, men 2nd dose of 3 grams, 3 days later (2 <sup>nd</sup> dose unlicensed)	3 days  Fosfomycin women single dose, men two doses
	Risk factors for increased resistance include: care h last 6 months, unresolving urinary symptoms, recenand Australasia) especially health related, previous k If increased resistance risk, send culture for suscept treatment.	t travel to a country with increase known UTI resistant to trimethop	ed antimicrobial resistance (outside rim, cephalosporins or quinolones.	Northern Europe
UTI in Pregnancy NICE UTI HPA UKTIS	If patient symptomatic send MSU and treat If not symptomatic send MSU and wait for results If MSU comes back positive, patient is asymptomatic, it is the first episode and an uncomplicated singleton pregnancy send a carefully taken repeat MSU and don't treat. If the subsequent sample is culture positive or the patient is symptomatic then treat.  Short-term use of nitrofurantoin in pregnancy unlikely to cause problems to the foetus but avoid at term due to risk of neonatal haemolysis.  Trimethoprim: AVOID if low folate status or folate antagonist prescribed (eg antiepileptic or proguanil) & ensure folate supplement used for 1st trimester plus consider increase to 5mg daily dose.	First-trimester Nitrofurantoin Cefalexin Second-trimester Nitrofurantoin Trimethoprim Cefalexin Third-trimester Trimethoprim Cefalexin	Nitrofurantoin – 100 mg MR BD  Cefalexin - 500 mg BD  Trimethoprim – 200 mg BD	Follow up at 48hrs to assess response to treatment.  All for 7 days
Acute Pyelonephritis in adults (proven UTI and loin pain +/- fever) NICE pyelonephritis BNSSG pyelonephritis pathway	If admission not needed, always send MSU for culture & sensitivities (state pyelonephritis) and start antibiotics.  If ESBL risk d/w microbiology  Do not prescribe Nitrofurantoin, Pivmecillinam or Fosfomycin if clinical evidence of pyelonephritis  MHRA Fluroquinolone warning  Fluroquinolone patient information leaflet	Cefalexin or Co-amoxiclav If type 1 penicillin allergy Ciprofloxacin	500 mg TDS 625 mg TDS 500 mg BD	7–10 days 7-10 days 7 days
Acute pyelonephritis in pregnancy NICE pyelonephritis UKTIS	For pregnant women who do <u>not</u> require admission. If admission not needed, send MSU (state pyelonephritis) for culture & sensitivities and start antibiotics  MHRA Fluroquinolone warning  Fluroquinolone patient information leaflet  If no response within 24 hours, admit.	Cefalexin Second-line: Ciprofloxacin (for use when alternatives unsuitable - see BNF and UKTIS for risks)	500 mg TDS 500 mg BD	10 days 7 days

Note: Doses are oral and for adults (unless stated). Please refer to BNF or BNF for children (BNFc) for further information

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ILLNESS	COMMENTS MEDICIN		MEDICINE	NE ADULT DOSE		OSE	DURATION OF TREATMENT	
Recurrent UTI non-pregnant women ≥ 3 UTIs/year or ≥ 2/6 months  NICE recurrent UTI BNSSG Recurrent UTI gudieline	First line: Advise simple measures in hydration Second line: Standby or post-trigged Third line: Methenamine or Antibion Choice of antibiotics should be bas sensitivities.	er antibiotics otic prophylaxis	Nitrofurantoin  or  Trimethoprim  Methenamine (	Hiprex)	_	single dose daily dose	or	Post-trigger: Stat (off-label) Prophylaxis: Every night Review at 3-6 months
UTI in Children	UTI symptoms:							
NICE UTI children	Age group	Most comm	on symptoms		<b>→</b>		Least commo	on symptoms
PHE URINE NICE UTI	Younger than 3 months	Fever, vomit irritability	ing, lethargy,	Poor feeding	, failure to	o thrive		ain, jaundice, offensive urine
Bristol children's	Over 3 months preverbal (infants and toddlers)	fever		Abdominal patenderness, value feeding		poor	Lethargy, irri haematuria, failure to thr	offensive urine,
hospital – Urinary tract infection in children –	Verbal (children)	Frequency, o	dysuria	Dysfunctiona to continence loin tenderne	e, abdom		Fever, malais haematuria, cloudy urine	se, vomiting, offensive urine,
referral Includes information on diagnosis, urine collection, scanning and referral	Child <3 months: send urine for cu Child >3 months assess with urine		sitivities (if appropria	ite) and refer ui	rgently fo	r assessme	nt	
and referral	Dipstick 3months – 3 years Nits		Nitrite +ve	rite +ve		Nitrite -ve		
			JTI highly likely, send reatment	I highly likely, send for MC&S, start atment		UTI likely, send for MC&S, start treatment		
	-		JTI likely if freshly vo MC&S, start treatme			No UTI, do	lo UTI, do not send for MC&S	
	Dipstick over 3 years Nits		Nitrite +ve	rite +ve		Nitrite -ve	<u> </u>	
	Leukocyte esterase +ve UTI MC		·	I highly likely start treatment, send for C&S if risk of serious illness or previous Is.				reatment unless
	Leukocyte esterase -ve	S		reshly voided sample start treatment. nd for MC&S, subsequent management		No UTI, do not send for MC&S		
	Also send urine samples for culture when suspicion of upper UTI, high to intermediate risk of serious infection, recurrent UTIs, infection has not responded to treatment within 24-48 hours if no sample has already been sent, when clinical signs and dipstick tests do not correlate.							
	Lower UTI / cystitis		First UTI: Trimethoprim					
	Bacteriuria / +ve stick test but feve systemic symptoms (e.g. vomiting, tenderness)		3 months – 11 years: 4mg/kg (max 200mg/dose) BD ≥12 years: 200mg BD		)	3 days		
			Cefalexin					
				3months – 11 years: 25mg/kg (max 1gram/dose) BD ≥12 years: 1gram BD				
	Upper UTI / pyelonephritis		Cefalexin					
	Bacteriuria / +ve stick test and fe Bacteriuria / +ve stick test plus lo tenderness, irrespective of fever	oin pain/		6months – 11 years: 25mg/kg (max 1gram/dose) BD ≥12 years: 1gram BD		)	7 – 10 days	
	Consider referral to a paediatric sp months refer); ensure urine sample been taken.							

ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT	
Gastro-Intest	tinal Tract Infections				
Oral Candidiasis CKS Self-care	For localised or mild oral candidal infection: After 7 days if some response to initial treatment agent offer further 7 days. After 7 days if initial treatment has had little or no effect, despite adequate adherence, offer Miconazole oral gel for 7 days.  Avoid Miconazole if patient is on warfarin. Oral candidiasis is rare in immunocompetent adults consider undiagnosed risk factors including HIV.	Nystatin suspension (100, 000 units/mL) Second Line Miconazole oral gel (20mg/ml)	1ml QDS after meals, retain near oral lesion before swallowing.  ≥2 years: 2.5ml QDS after meals, retain near oral lesion before swallowing.	Continue treatment for 48 hours after symptoms resolve  Continue treatment for 7 days after symptoms resolve	
	For extensive or severe candidiasis, HIV or if the patient is immunocompromised: If infection not resolved after 7 days, offer further 7 days	Fluconazole	50 mg OD extensive or severe 100mg OD HIV or immunocompromised	7 days	
	Consider sending swab for culture, ID and sensitivity testing Children have a higher fluconazole clearance than adults	Fluconazole  1 month – 11 years: 6mg/k 100mg/dose) OD ≥12 years: 3mg/kg (max 10	Fluconazole  1 month – 11 years: 6mg/kg on day one then 3mg/kg (max 100mg/dose) OD		
Eradication of	Always test for <i>H pylori</i> before giving antibiotics	Omeprazole 20 mg BD <b>or</b> La	<del></del>		
Helicobacter pylori	Treat all positives if known DU, GU or low grade MALToma, NNT in non-ulcer dyspepsia is 14  Consider test and treat in persistent uninvestigated	PLUS Clarithromycin 500mg BD w		7 days	
NICE PHE	dyspepsia.  Do not offer eradication for GORD.		vith Metronidazole 400mg BD		
	DU/GU relapse: retest for <i>H. pylori</i> using breath or stool test OR consider endoscopy for culture & susceptibility. NUD: Do not retest, offer PPI or H <sub>2</sub> RA				
	Do not use clarithromycin, metronidazole or quinolone if used in the past year for any infection. See BNF /NICE for alternative treatment options				
	Retest for H pylori: post DU/GU or relapse after second line therapy, using UBT or SAT consider referral for endoscopy and culture				
Infectious diarrhoea PHE Diarrhoea	Refer previously healthy children with acute painful or be indicated unless systemically unwell. If systemically ur consider Clarithromycin 250-500mg BD for 5-7 days if the UKHSA (Rivergate) 03003038162 (option 1)	well and campylobacter susp	pected (e.g. undercooked meat and ab	dominal pain),	
Clostridioides difficile BNSSG C dif	Stop unnecessary antibiotics, PPIs and antiperistaltic agents. If severe symptoms or signs (see below) should discuss treatment with microbiology, review progress closely and/or consider hospital referral.	Vancomycin	125mg QDS	10 days	
NICE C dif	Signs of severe CDI: T >38.5°C, WCC >15x10°/L, acutely rising creatinine or signs/symptoms of severe colitis			microbiology if no improvement in symptoms after 7 days treatment	
	Antimotility agents should not be prescribed  Further episode within 12 weeks of symptom resolution – discuss treatment with microbiologist				
	Further episode after 12 weeks of symptom resolution - treat with Vancomycin if less severe, first recurrence episode or has been a long time between episodes otherwise discuss with microbiologist.				
Traveller's	Only consider standby antibiotics for remote areas or	people at high-risk of severe	e illness if they contract travellers' dia	rrhoea	
diarrhoea -standby	If standby treatment appropriate give: Azithromycin 50 antimotility agent bismuth subsalicylate (Pepto Bismol The National Travel Health Network and Centre (NaTH)	2 tablets QDS as prophylaxi			
treatment	`				

Note: Doses are oral and for adults (unless stated). Please refer to BNF or BNF for children (BNFc) for further information

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	idinicrobial Prescribing Guidennes for DN55G neardi			itegrated Care Board	
ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT	
Threadworm  CKS Self-care	Treat <b>all</b> household contacts at the same time PLUS advise hygiene measures for 2 weeks (hand hygiene, pants at night, morning shower) PLUS wash sleepwear, bed linen, dust, and vacuum on day one	6 months or older:  Mebendazole (off label if <2yrs)  <6 months or pregnancy: 6 weeks of hygiene measures, including perianal wet wiping or washes 3 hourly during the day	100 mg	Stat dose. If reinfection occurs second dose may be needed after two weeks	
Diverticulitis  CKS  NICE Diverticular  Disease	In patients with suspected mild, uncomplicated diverticulitis consider a no antibiotic prescribing strategy if the patient is systemically well and has no co-morbidities. Advise simple analgesia, for example paracetamol and advise the person to re-present if symptoms persist or worsen.  Offer antibiotics if the person is systemically unwell or has significant co-morbidity but does not meet the criteria for referral. Arrange a review within 48 hours or sooner if symptoms worsen.  Consider same day hospital assessment (HOT clinic)	Co-amoxiclav  Penicillin allergic: Co-trimoxazole PLUS Metronidazole  See BNF for Co-trimoxazole dosing advice, avoid in blood disorders and discontinue	625mg TDS  960mg BD  400mg TDS	5 days Ensure review at 48 hours	
	if complications are suspected e.g. abscess or perforation	immediately if blood disorders or rash develop			
<b>Genital Tract</b>	Infections Contact UK Teratology Information Se	ervice www.uktis.org for inform	ation on foetal risks if patient is p	oregnant.	
STI screening	People with risk factors should be screened for chlamy service.  Risk factors: < 25y, no condom use, recent (<12mth) no chlamydia, gonorrhoea, trichomonas, pelvic inflammat increased risk of HIV and syphilis. Persons or sexual cor	ew partner or 2 or more partners, ory disease and non-gonococcal u	symptomatic partner, sexual conta irethritis. Men who have sex with n	ct of person with	
Chlamydia trachomatis BASHH CKS	Opportunistically screen 16-24yr olds if sexually active. Risk factors: recent change of sexual partner and lack of consistent condom use.  Treat partners &/or refer to Unity Sexual Health service if required.  Risk of testing positive 10-15% in next 3-6 months.  Repeat Chlamydia test advised at 3 months.	Doxycycline  If allergic or intolerant or pregnant and breastfeeding Azithromycin	100mg BD  1gram single dose then 500mg daily	7 days Stat 2 days	
Endorse prescription 'FS' to enable free NHS prescription	Due to lower cure rate in pregnancy, test for cure at least 3 weeks after treatment. Test for cure for rectal infections  If requires Azithromycin and weighs less than 45kg discuss with Unity Sexual Health				
Urethritis  BASSH Endorse prescription 'FS' to enable free NHS prescription	Doxycycline is now first line. Purulent discharge: gonorrhoea is more likely therefore need to consider adding Ceftriaxone 1gram IM and refer to Unity Sexual Health. Treat partners and/or refer to Unity Sexual Health service if required	Doxycycline (1st line)  Azithromycin (2nd line)	100mg BD  1gram then 500mg OD	7 days Stat 2 days	
Genital Herpes BASHH	Advise: saline bathing, Vaseline, analgesia or topical lidocaine for pain and discuss transmission. Confirm diagnosis using swab (viral transport media – PCR)  First episode: treatment indicated within 5 days of the start of the episode, or while new lesions are still forming, or if systemic symptoms persist.	Aciclovir oral  or  Aciclovir oral	200 mg five times each day 400 mg TDS	5 days	
prescription 'FS' to enable free NHS prescription	Recurrent: first line – supportive therapy only (saline bathing, Vaseline, analgesia and/or lidocaine ointment); give standby prescription for oral Rx, to be started at prodrome (if recognisable)	Aciclovir oral Or	800mg TDS	2 days	
	For suppression therapy (>=6 recurrences/year) seek advice from Unity Sexual Health or consider suppressive therapy which should be discontinued after a maximum of a year to reassess recurrence frequency. If recurs aciclovir suppression should be re-instituted following discussion with patient and can be continued >1yr. Some patients prefer episodic treatment for recurrences. Ensure diagnosis is confirmed before commencing a patient on suppressive therapy.	Aciclovir oral  Aciclovir oral	400mg TDS  400mg BD	5 days Up to 1 year	

Note: Doses are oral and for adults (unless stated). Please refer to BNF or BNF for children (BNFc) for further information

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	Tobial Prescribing Guidennes i				
ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT	
Epididymo-	STIs infection probable: recent change sexual	Most likely due to any STI:			
orchitis	partner, urethral discharge, STI contact	Ceftriaxone	1gram IM	STAT	
<u>BASHH</u>		PLUS Doxycycline	100mg BD	<del>10-</del> 14 days	
	Gonorrhoea more likely if: purulent urethral				
Endorse	discharge, man who has sex with men, black ethnicity or contact gonorrhoea.	Second line if			
prescription 'FS'	etimicity of contact gonormoea.	ceftriaxone/doxycycline			
to enable free NHS prescription	Remember to assess and treat partner(s)	contraindicated :	200mg BD	14 days	
Title presemption	epidemiologically	Ofloxacin	-		
	Traditional risk linked to age, with >35yrs indicating	Most likely due to chlamydia or other non-gonococcal			
	enteric micro-organism more likely. But >10-13% men aged 35-65 have at least one new sexual	organisms (if no risk factors			
	partner in the last year (NATSAL 2013)	for gonorrhoea)			
	, , , , , , , , , , , , , , , , , , , ,	Doxycycline	100mg BD	10-14 days	
	Remember to exclude Torsion if acute onset and	Or Ofloxacin	200mg BD	14 days	
	unilateral as testicular salvage is required within 6				
	hours and success diminishes with time.	Most likely due to an STI and an enteric organism			
	Send urine for cultures and sensitivities:	Ceftriaxone	1gram IM	STAT	
	Enteric origin suspected – boric acid container	PLUS Ofloxacin	200mg BD	14 days	
	STI suspected – universal container for STI screen		Zoonig DD	14 days	
	(urethral swab also required)	Most likely due to an enteric organism			
	MHRA Fluroquinolone warning	Ofloxacin	200mg BD	14 days	
		Or Levofloxacin	500mg po OD	10 days	
	Fluroquinolone patient information leaflet				
		If quinolones are contra- indicated, treat with:			
		Co-amoxiclav	625mg po TDS	10 days	
				Review with cultures at 48-72 hours	
Vaginal	All topical and oral azoles give over 70% cure	Fluconazole	150mg orally	Stat	
candidiasis	The topical and oral aboles give over 7 070 care	or Clotrimazole	500 mg PV pessary	Stat (nocte)	
	Pregnancy: avoid oral azoles, use intravaginal	Pregnant:	500 mg r v pessury	Stat (Hocte)	
BASHH CKS	treatment for 7 days	Clotrimazole	500 mg PV pessary at night	Up to 7 nights	
<u>Self-care</u>	Recurrent not pregnant (>4 episodes per year): 150mg oral fluconazole every 72 hours for three doses induction, followed by one dose once a week for six month maintenance				
Bacterial	Oral metronidazole is as effective as topical	oral Metronidazole	400 mg BD	5-7 days	
Vaginosis	treatment and is cheaper.	or oral Metronidazole	2 grams	stat	
_	Less relapse with 5-7 days than 2g stat at 4 wks	or Metronidazole 0.75%	5 grams applicatorful at night	5 nights	
BASHH CKS	Pregnant/breastfeeding: avoid 2g stat	intravaginal gel	- o.a approacorrui at mgilt	3	
CKS	Insufficient evidence to treat asymptomatic pregnant women – symptomatic women should be	or Clindamycin 2% intravaginal cream	5 grams applicatorful at night	7 nights	
	treated.	or Clindamycin	200mg PD	7 days	
	Treating partners does not reduce relapse		300mg BD	7 days	
Anogenital	The evidence base to advise on 1st and 2nd line treatment is not strong.				
Warts	If warts are fleshy and non-keratinised (apply	Podophyllotoxin	Twice a day for 3 days then 4	4 weeks	
<u>BASHH</u>	cream/solution directly to warts. Cream may be easier to apply and comes with a mirror).		days off		
Endorse					
prescription 'FS'	If warts keratinised (advise patients to use Aldara®		V2 a week		
to enable free	sparingly especially if sub-preputial warts as a strong	Imiquimod 5% (Aldara®)	X3 a week	4 weeks	
NHS prescription	response (it is an immune modulator) may result in significant pain and ulceration. Patients should read				
	instructions carefully).	At risk of pregnancy or			
	All treatments have significant failure and relapse	pregnant			
	rates. Refer to Unity Sexual Health service for	Refer to Unity Sexual Health			
	specialist treatment if no response after 4 weeks				
	treatment.	<u> </u>	<u> </u>		

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ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
Trichomoniasis BASHH CKS Endorse	Treat partners refer to Unity Sexual Health service.  2g single dose metronidazole is not as effective as 5- 7 days (avoid in pregnancy). Unity has observed increasing failure rates with metronidazole 500mg bd as recommended by BASSH	Oral Metronidazole  For symptoms Clotrimazole	400 mg TDS  100mg pessary at night	7 days 6 nights
prescription 'FS' to enable free NHS prescription	Clotrimazole for symptom relief (not cure) if metronidazole declined.			
Pelvic Inflammatory Disease BASHH, CKS  Endorse prescription 'FS' to enable free NHS prescription	Refer woman and contacts to Unity Sexual Health service. Always test for chlamydia and gonorrhoea using a NAAT AND culture for gonorrhoea. Ceftriaxone, doxycycline and metronidazole now recommended first line by BASH in view of quinolone side effects and broad spectrum antimicrobial efficacy including against <i>Mycoplasma genitalium</i> . A quinolone regimen is however permissible providing risks are discussed with patient if im ceftriaxone is not available and patient does not want to attend Unity Sexual Health. However >40% of gonorrhoea isolates now resistant to quinolones in BNSSG. If gonorrhoea likely (partner has it, severe symptoms, sex abroad) use ceftriaxone containing regimen should be used.  Metronidazole is included to improve coverage for anaerobic bacteria. Anaerobes are of relatively greater importance in patients with severe PID and if >25 yrs when chlamydia is detected less often - <25yrs 35% PID caused by chlamydia and >25yrs only 11%.  Moxifloxacin has good anaerobic cover on its own and can be considered instead of ofloxacin and metronidazole in patients in whom compliance is a concern.  Ceftriaxone also provides antimicrobial cover against other bacteria associated with PID in addition to gonorrhoea.  MHRA Fluroquinolone warning Fluroquinolone patient information leaflet	Ceftriaxone PLUS Metronidazole PLUS Doxycycline  Alternative Metronidazole PLUS Ofloxacin If high risk of gonorrhoea Add Ceftriaxone  Alternative if risk of poor compliance Moxifloxacin If high risk of gonorrhoea Add Ceftriaxone  Or Ceftriaxone PLUS Azithromycin PLUS Metronidazole  At risk of pregnancy and pregnancy test negative. Benefits of PID treatment with regimens detailed above outweigh risks. Pregnant Refer to gynae – parental therapy advised Breastfeeding	1gram IM 400mg BD 100mg BD 400mg BD 400mg BD 1gram IM 400mg OD 1gram IM 1gram IM 1gram then 500mg OD 400mg BD	Stat 14 days 14 days 14 days Stat 14 days Stat  14 days Stat  14 days Stat  5 tat  4 days (days 2-5) 5 days
Gonorrhoea	For the treatment of uncomplicated anogenital	Discuss with unity sexual health or gynae.  Ceftriaxone	1 gram deep IM injection	Stat
Neisseria gonorrhoeae BASHH	infection in adults. Treated cases need a test of cure at 2 weeks. All treatment failures must be discussed with Unity Sexual Health and reported to Public Health England. If unable to treat in primary care refer to Unity Sexual Health service for treatment. Refer to Unity Sexual Health for contact tracing.	Pharyngeal infection Ceftriaxone Alternative	1 gram deep IM injection	Stat
Endorse prescription 'FS' to enable free NHS prescription	Intra-muscular: Reconstitute 1 g vial of Ceftriaxone with 3.5 ml of 1% Lidocaine solution	Gentamicin PLUS Azithromycin	240mg IM injection 2 gram orally	Stat
	NB: azithromycin antimicrobial resistance has increased in the UK, 40% reduced susceptibility in Bristol 2018.	Only if intramuscular injection is contraindicated or refused by the patient:		
	NB Both alternative regimens are often inadequate to treat pharyngeal gonorrhoea	Cefixime PLUS Azithromycin	400 mg orally	Stat
		7.Editioniyen	2 gram orally	Stat





ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
Skin Infection	s			
Impetigo <u>NICE Impetigo</u>	Localised non bullous use hydrogen peroxide or if not appropriate Fucidin Widespread non bullous use oral or topical antibiotic Bullous impetigo or systemically unwell or high risk of complications use oral antibiotic	Topical treatment: Hydrogen peroxide 1% cream (Crystacide) Fucidin cream 2%  oral Flucloxacillin If penicillin allergic: oral Clarithromycin MRSA only: Doxycycline	Apply 2-3 times a day  Apply 3 times a day  500 mg QDS  500 mg BD	5 days
		Fucidin cream 2% apply 3 times  Flucloxacillin  1month – 1 year: 125mg QDS  2 – 9 years: 250mg QDS  ≥10 years: 500mg QDS		
		Consider using capsules were a they are more likely to be toleral lf child less than 5 years old and tolerated:  Co-amoxiclav  1month – 5 years: 0.5ml/kg TDS	ated than liquid I flucloxacillin is unlikely to be	5 days
		Penicillin allergy: Clarithromycin Child 1 month–11 years: Body-weight under 8 kg: 7.5 mg Body-weight 8-11 kg: 62.5 mg Body-weight 12–19 kg: 125 mg Body-weight 20–29 kg: 187.5 m Body-weight 30–40 kg: 250 mg	BD BD g BD	
Eczema	If <u>no</u> visible signs of infection use of antibiotics (alone of	Child ≥12 years <u>:</u> 250 -500mg BD  or with steroids) encourages resis	tance and does not improve healing	3.
NICE secondary bacterial infection of eczema NICE Eczema	If <u>no</u> visible signs of infection use of antibiotics (alone or with steroids) encourages resistance and does not improve healing.  In eczema with visible signs of infection: weeping, pustules, yellow crusting, skin more swollen/sore, no response to treatment, rapidly worsening eczema (particularly if topical steroids are already being used) and systemic features associated with this fever and malaise.  If patient not systemically unwell do not routinely offer either a topical or oral antibiotic. If offered topical may be more appropriate if infection is localised and not severe (avoid repeat courses); an oral antibiotic more appropriate if the infection is widespread or severe. If systemically unwell offer an oral antibiotic. Treat as impetigo above without the use of Hydrogen peroxide.			ent, rapidly nd malaise. propriate if

ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
Cellulitis and Erysipelas NICE cellulitis CKS  BNSSG cellulitis in adults pathway	If river or sea water exposure, discuss with microbiologist. In uncomplicated cellulitis, 5 days of antibiotic treatment is as effective as a 10-day course (IDSA) but skin may look abnormal for weeks, in uncomplicated cellulitis if slow to resolve screen for MRSA.  Stop clindamycin if diarrhoea occurs.  Cellulitis around eye: if preseptal (skin of eyelid – eye/orbit should not be involved) - the patient should be treated and referred and reviewed by ophthalmology. Orbital cellulitis (the infection is primarily in the orbit and frequently causes eyelid swelling, red eye, restricted eye movements, reduced vision and pushed out eye) is an emergency and requires immediate ophthalmology review  *The use of Clindamycin must be risk assessed taking into account risk factors for Clostridium difficile infection (CDI):  Past history of CDI or C diff colonisation  Healthcare contact in the last 60 days  Antibiotic use in the last 90 days  Use of a PPI  Alternatives are Clarithromycin 500mg bd for 5 days or if taking a statin Doxycycline 200mg day 1 then 100mg od for 5 days total  See the BNSSG cellulitis in adults pathway for information on diagnosis, treatment, patient advice and re-presentations  MHRA Fluroquinolone warning Fluroquinolone patient information leaflet	Flucloxacillin  If penicillin allergic*: *Clindamycin  If infection near eyes or nose: Co-amoxiclav If penicillin allergic Cefalexin Or if type 1 allergy Levofloxacin  Flucloxacillin 1month − 1 year: 125mg QDS 2 − 9 years: 250mg QDS ≥10 years: 500mg QDS Consider using capsules were appthey are more likely to be tolerat  If child less than 5 years old and folerated: Co-amoxiclav 1month − 5 years: 0.5ml/kg TDS of the penicillin allergy: Clarithromycin Child 1 month−11 years: Body-weight under 8 kg: 7.5 mg/Body-weight 12−19 kg: 125 mg BB Body-weight 12−19 kg: 125 mg BB Body-weight 30−40 kg: 250 mg BB Child ≥12 years: 250 -500mg BD  If infection near eyes or nose: Co-amoxiclav 1month − 5 years: 0.5ml/kg TDS using dose)	500 mg QDS (If BMI≥30: 1gram QDS)  300 mg QDS  625 mg TDS  500 mg TDS  500 mg OD  propriate in older children as ed than liquid  flucloxacillin is unlikely to be  using 125/31 suspension  kg BD  D  BD  D  using 125/31 suspension	
		≥12 years: 625mgTDS using table suspension  Penicillin allergic:	ets or 10ml TDS 250/62	

COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
Mild diabetic foot infection: local infection involving only the skin/ sub-cutaneous tissues, if erythema <2cm, no systemic inflammatory response, no antibiotic treatment in last 3 months (if previous antibiotics, grown resistant organisms or polymicrobial flora discuss with microbiology)  Moderate diabetic foot infection: local infection with erythema more than 2cm around ulcer or involving structure deeper than skin/ sub-cutaneous tissues, no systemic inflammatory response signs. If antibiotics in the last 3 months, grown resistant organisms or polymicrobial flora discuss with microbiology. Consider hospitalisation if moderate diabetic foot infection is associated with key relevant co-morbidities.  Samples: if no recent swab or deep tissue sample has been collected then this should be done as close to starting antibiotic therapy as possible. Review treatment when results available.  *The use of Clindamycin must be risk assessed taking into account risk factors for Clostridium difficile infection (CDI):  Past history of CDI or C diff colonisation Healthcare contact in the last 60 days Antibiotic use in the last 90 days Use of a PPI  MHRA Fluroquinolone warning Fluroquinolone patient information leaflet	Mild diabetic foot infection: Flucloxacillin Penicillin allergy: Clindamycin* Or if pregnant Erythromycin MRSA present: Doxycycline Or Co-trimoxazole  Moderate diabetic foot infection: Co-amoxiclav Penicillin allergy or MRSA present: Co-trimoxazole PLUS Metronidazole Pseudomonas aeruginosa grown from cultures: Ciprofloxacin PLUS Clindamycin*	500mg – 1gram QDS (1gram if BMI≥30) 300mg QDS 500mg QDS 100mg BD 960mg BD 625mg TDS  960mg BD 400mg TDS  750mg BD 300mg QDS	Reassess after 2-7 days . Course length based on clinical assessment Minimum 7 days up to 6 weeks for osteomyelitis
Ulcers are always colonised with bacteria. Antibiotics do not improve healing unless active infection  Signs of active infection include – redness or swelling spreading beyond ulcer, localised warmth, increased pain, fever.  Don't send a swab on first presentation. If not responding to first line treatment a swab of ulcer is recommended. Please state the treatment the patient	If active infection: Flucloxacillin or Clarithromycin	500 mg QDS 500 mg BD	5 days  Discuss with microbiology if considering a repeat course of antibiotics
	Mild diabetic foot infection: local infection involving only the skin/ sub-cutaneous tissues, if erythema <2cm, no systemic inflammatory response, no antibiotic treatment in last 3 months (if previous antibiotics, grown resistant organisms or polymicrobial flora discuss with microbiology)  Moderate diabetic foot infection: local infection with erythema more than 2cm around ulcer or involving structure deeper than skin/ sub-cutaneous tissues, no systemic inflammatory response signs. If antibiotics in the last 3 months, grown resistant organisms or polymicrobial flora discuss with microbiology. Consider hospitalisation if moderate diabetic foot infection is associated with key relevant co-morbidities.  Samples: if no recent swab or deep tissue sample has been collected then this should be done as close to starting antibiotic therapy as possible. Review treatment when results available.  *The use of Clindamycin must be risk assessed taking into account risk factors for Clostridium difficile infection (CDI):  Past history of CDI or C diff colonisation Healthcare contact in the last 60 days Antibiotic use in the last 90 days Use of a PPI  MHRA Fluroquinolone warning Fluroquinolone patient information leaflet  Ulcers are always colonised with bacteria. Antibiotics do not improve healing unless active infection  Signs of active infection include – redness or swelling spreading beyond ulcer, localised warmth, increased pain, fever.  Don't send a swab on first presentation. If not responding to first line treatment a swab of ulcer is	Mild diabetic foot infection: local infection involving only the skin/ sub-cutaneous tissues, if erythema <2cm, no systemic inflammatory response, no antibiotic treatment in last 3 months (if previous antibiotics, grown resistant organisms or polymicrobial flora discuss with microbiology)  Moderate diabetic foot infection: local infection with erythema more than 2cm around ulcer or involving structure deeper than skin/ sub-cutaneous tissues, no systemic inflammatory response signs. If antibiotics in the last 3 months, grown resistant organisms or polymicrobial flora discuss with microbiology. Consider hospitalisation if moderate diabetic foot infection is associated with key relevant co-morbidities.  Samples: if no recent swab or deep tissue sample has been collected then this should be done as close to starting antibiotic therapy as possible. Review treatment when results available.  *The use of Clindamycin must be risk assessed taking into account risk factors for Clostridium difficile infection (CDI):  Past history of CDI or C diff colonisation Healthcare contact in the last 50 days Antibiotic use in the last 90 days Use of a PPI  MHRA Fluroquinolone warning Fluroquinolone patient information leaflet  Ulcers are always colonised with bacteria. Antibiotics do not improve healing unless active infection  Signs of active infection include – redness or swelling spreading beyond ulcer, localised warmth, increased pain, fever.  Don't send a swab on first presentation. If not responding to first line treatment a swab of ulcer is	Mild diabetic foot infection: local infection involving only the skin/ sub-cutaneous tissues, if erythema <pre> <pre></pre></pre>

Note: Doses are oral and for adults (unless stated). Please refer to BNF or BNF for children (BNFc) for further information

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ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
MRSA Skin Colonisation	Due to the potential risk of MRSA transmission & increased risks for certain patients, two attempts at decolonisation should be made for care home residents, persons with regular hospital admission	Mupirocin 2% nasal ointment AND For Adults:	Apply to inner surface of each nostril TDS	
	and prior to elective surgery.  Two days after stopping, 3 X MRSA screens should be taken at 48 hour intervals. If any of these are positive a second 5 day course is required followed by 3 rescreens as above.  If unsuccessful seek microbiology advice if	Chlorhexidine gluconate 4% liquid  For children or exfoliative skin condition:  Octenidine 0.3% Lotion (Octenisan®)	wash twice in 5 days skin wash daily and scalp wash twice in 5 days	Five consecutive days
	decolonisation essential  Chlorhexidine gluconate 4% liquid (Hibiscrub®)  contains soya oil. Do not use in patients with a  peanut or soya allergy			
MRSA Infection	Use antibiotic sensitivities to guide treatment.  If severe infection or no response to monotherapy	If active infection, MRSA <u>confirme</u>	<u>d</u> , infection not severe and admi	ssion not required
Meticillin- resistant Staphylococcus aureus	after 24-48 hours, seek advice from microbiologist regarding combination therapy.  Patients being treated for MRSA infection should also receive topical eradication therapy (see colonisation)	Confirmed active infection:  Doxycycline  OR according to sensitivities  Children:  Seek microbiology advice	100 mg BD	5 days
Scabies CKS	Treat all home & skin to skin contacts (including sexual partners in the last 8 weeks) at the same time.  Wash bed sheets, towels and clothing at the same time.  Best applied at night and advise patients to reapply treatment to hands when/if washed during the treatment period.	Permethrin 5% cream  If continued infection: Repeat permethrin as above  If continued infection after the	Apply to whole body and wash off after 12-24 hours	Two applications spaced one week apart
		four applications of permethrin and treatment of contacts and laundry and >15kg Ivermectin	200micrograms/kg (round to nearest 3mg tablets)	Single dose can be repeated after 7 days if scabies severe
Headlice  CKS  Self-care	Head lice can be mechanically removed by combing wet hair meticulously with a plastic detection comb (probably for at least 30 minutes) over the whole scalp at 4 day intervals for a minimum of 2 weeks, and continued until no lice are found on consecutive sessions; hair conditioner or vegetable oil can be used to facilitate the process	Dimeticone 4% lotion  (All affected individuals in a household should be treated at the same time)	Rub into dry hair and scalp, allow to dry naturally, shampoo after 8 hours (or overnight)	Two applications spaced one week apart
Mastitis	S. aureus is the most common infecting pathogen	Flucloxacillin	500 mg QDS	7 days and review
CKS	Suspect if women has: a painful breast, fever and/or general malaise, a tender red breast.	If woman or child is penicillin allergic:		
	Breastfeeding: oral antibiotics are appropriate where indicated. Women should continue feeding, including from the affected breast.	Clarithromycin	500 mg BD	7 days and review
Candida infection of the nipple in breastfeeding	Treat women and infant at the same time to prevent re-infection.  Fluconazole is an off-label indication in breast feeding	Women: Miconazole 2% cream to the nipples after every breastfeeding		2 weeks
CKS	Miconazole gel in infants – divide the dose into smaller portions and apply the gel to the affected area(s) with a clean finger after feeding. Do not apply to the back of the throat.	Second line: Fluconazole	150-300mg single dose Then 50-100mg bd	Single dose 10-14 days
		Infant: >4 months or 5-6 months if born p Miconazole oral gel 1.25ml QDS If this is unsuitable	ore-term:	7 days after lesions have healed
		Nystatin 1ml QDS		7 days, continued for 2 days after lesions have resolved

ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
Wound infections following surgery	It is a clinical decision if a wound is infected  Signs of active infection include – redness or swelling spreading beyond the wound, localised warmth, increased pain, fever.  Don't send a swab on first presentation. If not	Following 'clean surgery' Flucloxacillin Penicillin allergic: Clarithromycin	500mg QDS 500mg BD	
or trauma	responding to first line treatment a swab of wound is recommended. Please state the treatment the patient has already received on clinical details.	Following 'contaminated surgery likely to contain bowel flora' or following trauma Co-amoxiclav Penicillin allergic: Co-trimoxazole	625mg TDS	5 days
	If trauma, ensure wound is cleaned and debrided and consider tetanus	PLUS Metronidazole	960mg BD 400mg TDS	
	If an open fracture give a dose of Co-amoxiclav (if not penicillin allergic) and transfer to secondary care	Following 'clean surgery' Flucloxacillin		
	If a patient is known MRSA positive discuss with microbiology	1month – 1 year: 125mg QDS 2 – 9 years: 250mg QDS ≥10 years: 500mg QDS Consider using capsules were app they are more likely to be tolerate		
		If child less than 5 years old and fl tolerated: Co-amoxiclav 1month – 5 years: 0.5ml/kg TDS u		
		Penicillin allergy: Clarithromycin Child 1 month–11 years:		
		Body-weight under 8 kg: 7.5 mg/k Body-weight 8-11 kg: 62.5 mg BD Body-weight 12–19 kg: 125 mg BI Body-weight 20–29 kg: 187.5 mg	)	
		Body-weight 20–23 kg. 167.3 hig Body-weight 30–40 kg: 250 mg Bl Child ≥12 years: 250 -500mg BD		5 days
		Following 'contaminated surgery following trauma Co-amoxiclay	likely to contain bowel flora' or	
		1month – 5 years: 0.5ml/kg TDS using 2 dose)	,	
		≥12 years: 625mg TDS using table suspension Penicillin allergy:	ts or 10ml TDS 250/62	
		Cefalexin  1 month − 11 years: 25mg/kg (maximum) ≥12 years: 1gram BD	ax 1gram/dose) BD	
		Plus  Metronidazole  2 months – 11 years: 7.5mg/kg (r ≥12 years: 400mg TDS	nax 400mg/dose) TDS	

ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
Acne NICE acne vulgaris CKS Self-care	Mild-Moderate: 1 or more of:	Any Severity Adapalene (0.1% or 0.3%) / benzoyl peroxide (2.5%) OR Any Severity Trifarotene 50microgram/gram OR Any Severity Tretinoin (0.025%) / Clindamycin (1%) Mild to moderate Benzoyl peroxide (3% or 5%) / Clindamycin (1%) OR Moderate to severe Adapalene (0.1% or 0.3%) /Benzoyl peroxide (2.5%) AND Lymecycline or Doxycycline OR Moderate to severe Azelaic acid (15% or 20%) AND Lymecycline or Doxycycline OR Moderate to severe Trifarotene 50microgram/gram AND Lymecycline or Doxycycline OR Moderate to severe Trifarotene 50microgram/gram AND Lymecycline or Doxycycline	In the evening 408mg OD 100mg OD In the evening 408mg OD 100mg OD In the evening 408mg OD 100mg OD	
	alternative 12 week treatment.			

- Oral antibiotics should always be used in combination with a <u>non-antibiotic containing</u> topical preparation, never as monotherapy.
- Topical and oral antibiotics should not be used for more than 6 months except in exceptional circumstances.
- To reduce excessive dryness/irritation with topical retinoids, contact time should be increased gradually. Use of an oil free, non-pore blocking moisturiser earlier in the evening can also help reduce dryness and irritation.
- Benzoyl peroxide monotherapy is an alternative if other treatments are contraindicated or avoiding use of retinoid and antibiotic.
- Benzoyl peroxide products may bleach or discolour material including hair and dyed fabrics.

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broken the skin broken the ski	ILLNESS		COMMENTS			MEDICINE	ADULT I	DOSE	DURATION OF TREATMENT	
Type of bite   Bite has not broken the skin but not drawn blood skin	Bites –	Prophylaxis for	an uninfected bit	:e						
Human bite   Do not offer antibiotics   Consider antibiotics   If it is in a high risk area or person at high risk   Cat bite   Do not offer antibiotics   Consider antibiotics   Offer	Human or Animal  CKS  nathnac	Type of bite	broken the		e skin but		n and drawn	face, genit	als, skin overlying	
Cat bite Do not offer antibiotics wound could be deep Og or other traditional pet bite Do not offer antibiotics Do not offer antibiotics of traditional pet bite Do not offer antibiotics Do not offer antibiotics or subject that the pet bite Do not offer antibiotics Do not offer antibiotics or subject that the pet bite Do not offer antibiotics Do not offer antibiotics or subject that the pet bite Do not offer antibiotics Do not offer antibiotics or subject that the pet bite Do not offer antibiotics Do not offer antibiotics or subject that the pet bite Do not offer antibiotics or subject that the pet bite Do not offer antibiotics Do not offer antibiotics or subject that the pet bite Do not offer antibiotics Do not offer antibiotics or subject that the pet bite Do not offer antibiotics or subject that the pet bite Do not offer antibiotics or subject that the pet bite Do not offer antibiotics or subject that the pet bite Do not offer antibiotics or subject that the pet bite Do not offer antibiotics or subject that the pet bite Do not offer antibiotics or a bond and pet bite Do not offer antibiotics or a bond and behavior and pet bite Do not offer antibiotics or a bond and behavior and pet bite Do not offer antibiotics or a bond and behavior and behavi		Human bite		a high risk area or p		Offer antibiotics			of poor circulation	
Dog or other traditional pet bite  Do not offer antibiotics  Offer antibiotics if it is a sussed considerable, deep tissue damage or is visibly contaminated (for example with dirt or a tooth).  Consider antibiotics if it is a high risk area or a person at high risk  Assess risk of tetanus, rabies or a blood born infection e.g. HIV, hepatitis B&C.  Manage the wound with irrigation and debridement as necessary.  Seek advice from microbiology or bites from a wild or exotic animal lines (including birds and non-traditional pets and consider obtaining advice for domestic animal bites (including farm animal bites) you are unfamiliar with  Penicillin allergy: review all at 24 and 48 hours as not all pathogens are covered  If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  Prophylaxis or treatment:  Co-amoxiclav  Prophylaxis or treatment:  Co-amoxiclav  Prophylaxis or treatment:  Co-amoxiclav  Prophylaxis a day  Prophylaxis a day  Prophylaxis a day  Prophylaxis a treatment:  Co-amoxiclav  Prophylaxis a treatment:  Co-amoxiclav  Immunosuspression.  Splend  Prophylaxis a treatment:  Co-amoxiclav  Prophylaxis a treatment:  Co-amoxiclav  Immunosuspression  Prophylaxis a day  Treatment 5 days  Prophylaxis a day  Treatment 5 days  Prophylaxis a day  Immunosuspression  Prophylaxis a day  Treatment 5 days  Treatment 5 days  Prophylaxis a day  Treatment 5 days  Prophylaxis a day  Treatment 5 days  Prophylaxis a day  Treatment 5 days  Treatment	and annual bices	Cat bite		Consider antibiotic		Offer antibiotics		wound inf	ection because of	
Assess risk of tetanus, rabies or a blood born infection e.g. HIV, hepatitis B&C.  Manage the wound with irrigation and debridement as necessary. Seek advice from microbiology or bites from a wild or exotic animal including birds and non-traditional pets and consider obtaining advice for domestic animal bites (including farm animal bites) you are unfamiliar with  Penicillin allergy: review all at 24 and 48 hours as not all pathogens are covered  If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  Prophylaxis or treatment:  Co-amoxiclav  Co-amoxiclav  Doxycycline  PLUS Metronidazole  Prophylaxis or treatment: Co-amoxiclav  Imonth – 5 years: 0.25ml/kg TDS using 125/31 suspension (max 10ml/ dose)  212 years: 625mg TDS using tablets or 10ml TDS 250/62 suspension  Penicillin allergic: Children 212 years: Metronidazole  212 years: 400mg TDS  Prophylaxis 3 day: Treatment 5 days  Prophylaxis 4 day: Treatment 5 days  Prophylaxis or treatment: To -11 years 0.15ml/g TDS years  Prophylaxis or treatme		traditional		Do not offer antibio	otics	considerable, deep tissuvisibly contaminated (fodirt or a tooth).	ue damage or is or example with	immunosu asplenia, o	uppression, decompensated	
infection e.g. HIV, hepatitis B&C. Manage the wound with irrigation and debridement as necessary. Seek advice from microbiology or bites from a wild or exotic animal (including birds and non-traditional pets and consider obtaining advice for domestic animal bites (including farm animal bites) you are unfamiliar with Penicillin allergy: review all at 24 and 48 hours as not all pathogens are covered If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  Prophylaxis or treatment: Co-amoxiclav  1month – 5 years: 0.25ml/kg TDS using 125/31 suspension 6 – 11 years: 0.15ml/kg TDS using 250/62 suspension (max 10ml/ dose) 212 years: 625mg TDS using tablets or 10ml TDS 250/62 suspension  Penicillin allergic: Children ±12 years: Metronidazole 212 years: 400mg TDS  Prophylaxis 3 day: Treatment 5 days							is a night fisk area			
as necessary, Seek advice from microbiology or bites from a wild or exotic animal (including birds and non-traditional pets and consider obtaining advice for domestic animal bites (including farm animal bites) you are unfamiliar with Penicillin allergy: review all at 24 and 48 hours as not all pathogens are covered If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  Penicillin allergy: review all at 24 and 48 hours as not all pathogens are covered If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  Penicycline  10 yevericine Puls Metronidazole 11 years: 0.25ml/kg TDS using 125/31 suspension 6 – 11 years: 0.15ml/kg TDS using 250/62 suspension (max 10ml/ dose) 12 years: 625mg TDS using tablets or 10ml TDS 250/62 suspension Penicillin allergic: Children 11 years: Metronidazole 12 years: 400mg TDS Puls Doxycycline 12 years: 200mg OD Children under 12 years: Co-trimoxazole 6 weeks: 24mg/kg (max 480mg/dose) BD Puls Metronidazole 22months: 7.5mg/kg (max 400mg/dose) TDS		infection e.g. HI	V, hepatitis B&C.		, ,		625 mg TDS		Prophylaxis 3 days Treatment 5 days	
unfamiliar with Penicillin allergy: review all at 24 and 48 hours as not all pathogens are covered  If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  If pregnant and penicillin allergic authority allergic in the prediction of the		as necessary.  Seek advice from microbiology or bites from a wild or exotic animal (including birds and non-tradition pets and consider obtaining advice for domestic animal bites (including farm animal bites) you are unfamiliar with  Penicillin allergy: review all at 24 and 48 hours as		microbiology or bites from a wild ncluding birds and non-traditional obtaining advice for domestic  Penicillin allergic: Doxycycline PLUS Metronidazole		cline				
If pregnant and penicillin allergic, discuss with microbiology IV antibiotics may be required.  6 – 11 years: 0.15ml/kg TDS using 250/62 suspension (max 10ml/ dose) ≥12 years: 625mg TDS using tablets or 10ml TDS 250/62 suspension  Penicillin allergic: Children ≥12 years: Metronidazole ≥12 years: 400mg TDS PLUS Doxycycline ≥12 years: 200mg OD Children under 12 years: Co-trimoxazole >6 weeks: 24mg/kg (max 480mg/dose) BD PLUS Metronidazole >2months: 7.5mg/kg (max 400mg/dose) TDS					Co-amo	xiclav	Lusing 125/31 susn	ension		
suspension  Penicillin allergic: Children ≥12 years: Metronidazole ≥12 years: 400mg TDS PLUS Doxycycline ≥12 years: 200mg OD Children under 12 years: Co-trimoxazole >6 weeks: 24mg/kg (max 480mg/dose) BD PLUS Metronidazole >2months: 7.5mg/kg (max 400mg/dose) TDS		If pregnant and p	enicillin allergic,		6 – 11 y	rears: 0.15ml/kg TDS using				
Children ≥12 years: Metronidazole ≥12 years: 400mg TDS PLUS Doxycycline ≥12 years: 200mg OD Children under 12 years: Co-trimoxazole >6 weeks: 24mg/kg (max 480mg/dose) BD PLUS Metronidazole >2months: 7.5mg/kg (max 400mg/dose) TDS					-		ets or 10ml TDS 250	0/62		
PLUS Doxycycline ≥12 years: 200mg OD Children under 12 years: Co-trimoxazole >6 weeks: 24mg/kg (max 480mg/dose) BD PLUS Metronidazole >2months: 7.5mg/kg (max 400mg/dose) TDS					Children Metron	n ≥12 years: idazole			Prophylaxis 3 days	
Children under 12 years: Co-trimoxazole >6 weeks: 24mg/kg (max 480mg/dose) BD PLUS Metronidazole >2months: 7.5mg/kg (max 400mg/dose) TDS					PLUS Doxycyc	cline			Treatment 5 days	
>6 weeks: 24mg/kg (max 480mg/dose) BD PLUS Metronidazole >2months: 7.5mg/kg (max 400mg/dose) TDS					Children	n under 12 years:				
Metronidazole >2months: 7.5mg/kg (max 400mg/dose) TDS					>6 weel		'dose) BD			
Insect Bites For people who have symptoms or signs of an infected insect bite or sting treat as cellulitis and erysipelas.					Metron		g/dose) TDS			
	Insect Bites	For people who	have symptoms of	or signs of an infected			· 			

Note: Doses are oral and for adults (unless stated). Please refer to BNF or BNF for children (BNFc) for further information

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ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF
Fick bites Lyme	Prophylaxis: not routinely recommended in Europe. Give safety net advice about erythema migrans and other possible symptoms that may occur within 1	Treatment: Doxycycline	100mg BD	21 days
disease) NICE NG95 JKHSA Lyme	month of tick removal.  Treatment: Treat erythema migrans empirically;	First alternative: Amoxicillin	1gram TDS	21 days
lisease: nanagement and prevention	serology is often negative early in infection.  For other suspected Lyme disease such as neuroborrelosis (CN palsy, radiculopathy) seek advice			
	Discuss the diagnosis and management of Lyme disease in children and young people under 18 years with a specialist (Paediatric Infectious Diseases), unless they	< 9 years: Amoxicillin 30mg/kg (max 1gram First alternative:	n/dose) TDS	21 days
	have a single erythema migrans lesion and no other symptoms	Azithromycin ≥1 month: 10mg/kg 9 – 12 years:	g (max 500mg/dose) daily	17 days
		Doxycycline (soluble tablet) 2.5m day 1 then daily for 20 days	g/kg (max 100mg/dose) BD	21 days
		First alternative Amoxicillin 30mg/kg TDS (max 1gr	ram/dose)	21 days
		>12 years: Doxycycline 100mg BD First alternative		21 days
		Amoxicillin 1 gram TDS		21 days
Dermatophyte nfection – skin	Most cases: Terbinafine is fungicidal, so treatment time shorter and more effective than with fungistatic imidazoles.	Terbinafine 1% cream  or Clotrimazole 1% cream	BD BD	1-4 weeks For 1-2 weeks after healing
CKS body & groin CKS foot	If candida possible: use imidazole e.g.clotrimazole.			(i.e. 4-6 weeks)
CKS scalp	If intractable or scalp: send skin scrapings.			
PHE fungal skin	<b>If infection confirmed:</b> use <u>oral</u> terbinafine or itraconazole see BNF for dosing.			
<u>liagnosis</u>	Scalp: oral therapy and discuss with specialist  Terbinafine is not licenced for use in under 12s but is considered an appropriate treatment.			
Dermatophyte nfection – nail	Take nail clippings: start therapy only if infection confirmed by laboratory.  Terbinafine is more effective than azoles.	First-line: Terbinafine	250 mg OD - fingers - toes	6 weeks 12 weeks
CKS PHE fungal skin and nail infections diagnosis	Liver reactions rare (0.1-1%) with oral antifungals.  If candida or non-dermatophyte infection confirmed,	Second-line: Itraconazole pulsed therapy	200 mg BD as 7 day course	7 days every month
	consider oral itraconazole see BNF for dosing.  Topical nail lacquer is not as effective		- fingers	2 courses
	To prevent recurrence: apply weekly 1% topical antifungal cream to entire toe area.		- toes	3 courses  Stop treatment
	For children, seek specialist advice			when continual, new, healthy, proximal nail growth

Note: Doses are oral and for adults (unless stated). Please refer to BNF or BNF for children (BNFc) for further information

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ILLNESS	COMMENTS	MEDICINE	ADULT DOSE	DURATION OF TREATMENT
Varicella zoster /chicken pox UKHSA Varicella CKS Herpes zoster/ shingles PCDS Herpes zoster CKS	Pregnant/immunocompromised/neonate/pneumo nitis/encephalitis: seek urgent specialist advice for IV aciclovir  Chicken pox: aciclovir recommended if: onset of rash <48 hours and one of the following: >14 years old, severe pain, dense/oral rash, taking steroids, smoker  Shingles: treat if >50 years & within 72 hours of rash or if one of the following: active ophthalmic, Ramsey Hunt, eczema, non-truncal involvement, moderate or severe pain moderate or severe rash.  Treatment not within 72 hours: consider starting antiviral drug up to one week after rash onset if high risk of severe shingles or complications (continued vesicle formation, older age, immunocompromised, severe pain)	If indicated: Aciclovir	800 mg five times a day	7 days (Uncomplicated)  In cases of treatment failure seek Virologist advice to guide further treatment Zoster: until 2 days after crusting of lesions in immuno- compromised patients
	Ophthalmic zoster: Refer to ophthalmology for review.	Aciclovir 1-23 months: 200mg QDS 5 days 2-5 years: 400mg QDS 5 days 6-11 years: 800mg QDS 5 days 12- 17 years: 800mg five times da A fever persisting for more than 3 fever post initial subsidence need requires oral antibiotics Flucloxacillin 1month − 1 year: 125mg QDS 2 − 9 years: 250mg QDS ≥10 years: 500mg QDS Consider using capsules were app they are more likely to be tolerate Or if penicillin allergic (not type 1) Cefalexin 1 month − 11 years: 25mg/kg (mas ≥12 year: 1 gram BD	days post eruption or a new s to be taken seriously and sropriate in older children as ed than liquid or Flucloxacillin unpalatable	5-7 days (uncomplicated) In cases of treatment failure seek Virologist advice to guide further treatment Zoster: until 2 days after crusting of lesions in immuno- compromised patients  Antibiotic course (where necessary) 5 days
Eye Infections				
Conjunctivitis remedy pathway (bnssgccg.nhs.uk) CKS Self-care	First line: bath/clean eyelids with cotton wool dipped in sterile saline or boiled (cooled) water to remove crusting Only treat if severe, as most viral or self-limiting. Bacterial conjunctivitis is usually unilateral and self-limiting; it is characterised by red eye with mucopurulent, not watery, discharge. 65% and 74% resolve on placebo by day 5 and 7 There is a theoretical risk of grey baby syndrome if chloramphenicol is used during the third trimester of pregnancy an alternative is Fusidic acid 1% MR gel BD but this has less Gram-negative activity. Avoid Levofloxacin in pregnancy and breast feeding.	Second line if treatment required: Chloramphenicol 0.5% drops OR Chloramphenicol 1% ointment Third line (in adults): Levofloxacin 0.5% eye drops	4 times daily  3-4 times daily or just at night if using eye drops.  QDS	All for 48 hours after resolution usually 5-7 days
Blepharitis remedy pathway (bnssgccg.nhs.uk) CKS	First line: lid hygiene for symptom control, including warm compresses, lid massage and scrubs, gentle washing, avoiding cosmetics  Second line: topical antibiotics if hygiene measures are ineffective after 2 weeks.  Signs of Meibomian gland dysfunction or acne rosacea: consider oral antibiotics	Second line: Chloramphenicol 1% ointment Third line oral Doxycycline	BD to eyelids  100mg OD 4 weeks then 50mg OD maintenance for 8 weeks	2 weeks – this can be extended to 6 weeks if beneficial 12 weeks total

#### **Dental Infections**

GPs should not be involved in dental treatment. Patients presenting to non-dental primary care services with dental problems should be directed to their regular dentist or if this is not possible to NHS 111 who will be able to provide details of how to access emergency dental care.

Antibiotics do not cure toothache. First line treatment is with paracetamol and/or ibuprofen. Codeine is not effective for toothache.

Current recommended dental prescribing information can be found online at: <a href="https://www.rcseng.ac.uk/-/media/files/rcs/fds/publications/fds-amp-2020.pdf">https://www.rcseng.ac.uk/-/media/files/rcs/fds/publications/fds-amp-2020.pdf</a>

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#### **Changes to Antimicrobial Prescribing Guidelines August 2024**

Section	Guideline	Change
Lower Respiratory	Cough	Timeframe for giving antibiotics in pertussis altered in
Infections		line with national guidelines

#### **Changes to Antimicrobial Prescribing Guidelines April 2024**

Section	Guideline	Change
Upper Respiratory Infections	Acute otitis media	Addition of Otigo as second line option if no antibiotics given and oral pain relief is insufficient. Note ear drum must not be perforated.
Lower Respiratory	Cough	Information on Pertussis added
	Exacerbation of COPD	Penicillin allergic increased risk of treatment failure – levofloxacin switched to Co-trimoxazole
Genital-urinary	Epididymo-orchitis	Information on samples required added
Genital Tract	Vaginal candidiasis	Removed miconazole as an option in pregnancy, it is no longer available
Skin and soft tissue	Acne	Trifarotene added to treatment options. Additional information added to comments section.
	Diabetic foot infections	Re-written in line with a new BNSSG diabetic foot infection guideline. Treatment split into mild and moderate infection.

#### **Changes to Antimicrobial Prescribing Guidelines February 2024**

Section	Guideline	Change
All	Quinolone antibiotic prescribing	MHRA alert and patient information leaflet linked
Skin and soft tissue	Ulcers and Wound Infections	Update on when to take wound swabs
	Scabies	Included Ivermectin