Summary table - Infections in primary care

Principles of treatment:

- 1. This guidance is based on the best available evidence, but use professional judgement and involve patients in management decisions.
- 2. This guidance should not be used in isolation; it should be supported with patient information about safety netting, delayed/back-up antibiotics, self-care, infection severity and usual duration, clinical staff education, and audits. Materials are available on the RCGP TARGET website.
- 3. Prescribe an antibiotic only when there is likely to be clear clinical benefit, giving alternative, non-antibiotic self-care advice, where appropriate.
- 4. Consider a 'no' or 'delayed/back-up' antibiotic strategy for acute self-limiting upper respiratory tract infections and mild UTI symptoms.
- 5. In severe infection, or immunocompromised, it is important to initiate antibiotics as soon as possible, particularly if sepsis is suspected. If patient is not at moderate to high risk for sepsis, give information about symptom monitoring, and how to access medical care if they are concerned.
- 6. Where an empirical therapy has failed or special circumstances exist, microbiological advice can be obtained from ** ★****
- 7. Limit prescribing over the telephone to exceptional cases.
- 8. Use simple, generic antibiotics if possible. Avoid broad spectrum antibiotics (eg co-amoxiclav, quinolones and cephalosporins) when narrow spectrum antibiotics remain effective, as they increase the risk of *Clostridium difficile*, MRSA and resistant UTIs.
- 9. Always check for antibiotic allergies. A dose and duration of treatment for adults is usually suggested, but may need modification for age, weight, renal function, or if immunocompromised. In severe or recurrent cases, consider a larger dose or longer course.
- 10. Child doses are provided when appropriate, and can be accessed through the © symbol.
- 11. Refer to the BNF for further dosing and interaction information (eg the interaction between macrolides and statins), and check for hypersensitivity.
- 12. Have a lower threshold for antibiotics in immunocompromised, or in those with multiple morbidities; consider culture/specimens, and seek advice.
- 13. Avoid widespread use of topical antibiotics, especially in those agents also available systemically; in most cases, topical use should be limited.
- 14. In pregnancy, take specimens to inform treatment. Where possible, avoid tetracyclines, aminoglycosides, quinolones, azithromycin (except in chlamydial infection), clarithromycin, and high dose metronidazole (2g stat), unless the benefits outweigh the risks. Penicillins, cephalosporins, and erythromycin are safe in pregnancy. 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.
- 15. This guidance is developed alongside the NHS England Antibiotic Quality Premium. The required performance in 2017/19 is: a 10% reduction (or greater) in the number of E. coli blood stream infections across the whole health economy; a 10% reduction (or greater) in the trimethoprim:nitrofurantoin prescribing ratio for UTI in primary care, and a 10% reduction (or greater) in the number of trimethoprim items prescribed to patients aged 70 years or greater; sustained reduction of inappropriate prescribing in primary care.

ILLNESS	GOOD PRACTICE POINTS	TREATMENT	ADULT DOSE (click on @ for child doses)	DURATION OF TREATMENT	
UPPER RESPIRATORY TRACT INFECTIONS					
Influenza PHE Influenza	Annual vaccination is essential for all those "at risk" of influenza. ^{1D} Antivirals are not recommended for healthy adults. ^{1D,2A+} Treat "at risk" patients with five days oseltamivir 75mg BD, ^{1D} when influenza is circulating in the community, and ideally within 48 hours of onset (36 hours for zanamivir treatment in children), ^{1D,3D} or in a care home where influenza is likely. ^{1D,2A+} At risk: pregnant				
Influenza	(including up to two weeks post-partum); children under six months; adults 65 years or older; chronic respiratory disease (including				
prophylaxis NICE Influenza	COPD and asthma); significant cardiovascular disease (not hypertension); severe immunosuppression; diabetes mellitus; chronic neurological, renal or liver disease; morbid obesity (BMI>40). Dee the PHE Influenza guidance for the treatment of patients under 13 years of age. Deep In severe immunosuppression, or oseltamivir resistance, use zanamivir 10mg BD Deep Influenza guidance for the treatment of patients under 13 years of age. Deep In severe immunosuppression, or oseltamivir resistance, use zanamivir 10mg BD Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 13 years of age. Deep Influenza guidance for the treatment of patients under 14 years of age. Deep Influenza guidance for the treatment of patients under 14 year				
Acute sore	Avoid antibiotics 1B-,2D as 82% of cases resolve in	Fever pain 0-1: self-care ^{6D}			
throat NICE RTIs	7 days, and pain is only reduced by 16 hours. 3A+ Use FeverPAIN Score: 4B+,5A- Fever in last 24 hours; Purulence; Attend rapidly under three days;	Fever pain 2-3: delayed prescription 4B+,5A-,6D of			
FeverPAIN	severely Inflamed tonsils; N o cough or coryza. Score 0-1: 13-18% streptococci - no antibiotic. 2-3: 34-40% streptococci - 3 day delayed antibiotic. 4-5: 62-65% streptococci - if severe, immediate	phenoxymethylpenicillin ^{9A+}	500mg QDS (if severe) ^{13A+} © OR 1g BD (less severe) ^{13A+}	5-10 days 8D,9A+,14A-,15B+	
	antibiotic or 48-hour delayed antibiotic. 4B+,5A-,6D Advise paracetamol, self-care, and safety net. 6D Complications are rare: antibiotics to prevent quinsy NNT>4000, 7B- otitis media NNT200. 7B-	Penicillin allergy: clarithromycin ^{9A+,10B-} Penicillin allergy in	250mg BD ^{9A+} OR	5 days ^{9A+} 5 days ^{9A+}	
	10 days penicillin has lower relapse than five days in patients under 18 years of age. 80,9A+	<i>pregnancy:</i> erythromycin ^{9A+,10B-,11D,12C}	250-500mg QDS ^{9A+} ©	5 days ^{9A+}	
Scarlet fever (GAS) PHE Scarlet	Prompt treatment with appropriate antibiotics significantly reduces the risk of complications. Dobserve immunocompromised individuals	First line (mild): analgesia ^{2D} Phenoxymethylpenicillin ^{2D}	500mg QDS ^{1D} ©	10 days ^{3A+,4A+,5A+}	
fever	(diabetes; women in the puerperal period; chickenpox) as they are at increased risk of developing invasive infection. ^{1D}	Penicillin allergy:	250-500mg BD ^{1D} ©	5 days ^{1D,5A+}	
Acute otitis media (child doses) NICE RTIs	Optimise analgesia and target antibiotics. ^{1A-,2A+} AOM resolves in 60% of cases in 24 hours without antibiotics. ^{3A+} Antibiotics reduce pain only at two days (NNT15), and do not prevent deafness. ^{3A+}	Amoxicillin ^{11A+,12A+}	Neonate: 30mg/kg TDS ^{14A+} 1-11 months: 125mg TDS ^{14A+} 1-4 years: 250mg TDS ^{14A+} >5 years: 500mg TDS ^{14A+}	5 days ^{15A+}	
11.02 11.10	Consider 2 or 3 day delayed, 4D,5A+ or immediate antibiotics for pain relief if: <2 years AND bilateral AOM (NNT4), 6A+,7A+ bulging membrane, or symptom score >8 for: fever; tugging ears; crying; irritability; difficulty sleeping; less playful; eating less	Penicillin allergy: erythromycin ^{12A+,13D} OR	<2 years: 125mg QDS ^{13D} 2-7 years: 250mg QDS ^{13D} >8 years: 250-500mg QDS ^{13D}	} 5 days ^{15A+}	
	(0 = no symptoms; 1 = a little; 2 = a lot). (BA) All ages with otorrhoea NNT3. (Antibiotics to prevent mastoiditis NNT>4000. (BB), 100	clarithromycin ^{13D}	1 month-11 years: 7.5mg/kg- 250mg BD (weight dosing) ^{13D} 12-18 years: 250mg BD ^{13D}	} 5 days ^{13D,15A+}	







Antibiotic guidance for primary care: For consultation and local adaptation

ILLNESS	GOOD PRACTICE POINTS	TREATMENT	ADULT DOSE (☺ = child doses)	DURATION OF TREATMENT
Acute otitis externa CKS Otitis externa	First line: analgesia for pain relief, ^{1D,2D} and apply localised heat (eg a warm flannel). ^{2D} Second line: topical acetic acid or topical antibiotic +/- steroid: similar cure at 7 days. ^{2D,3A+,4B-} If cellulitis or disease extends outside ear canal,	Second line: topical acetic acid 2% ^{2D,4B-} Topical neomycin sulphate with corticosteroid ^{2D,5A-}	1 spray TDS ^{5A} © 3 drops TDS ^{5A} ©	7 days ^{5A-} 7 days (min) to 14 days (max) ^{3A+}
	or systemic signs of infection, start oral flucloxacillin and refer to exclude malignant otitis externa. 1D	If cellulitis: flucloxacillin ^{6B+}	250mg QDS ^{2D} © If severe: 500mg QDS ^{2D}	7 days ^{2D} 7 days ^{2D}
Sinusitis (acute) This guidance summarises the	Symptoms <10 days: 1A+ do not offer antibiotics as most resolve in 14 days without, 2A+ and antibiotics only offer marginal benefit after 7 days (NNT15). 3A+ Symptoms >10 days: 1A+ no antibiotic, or back-up antibiotic 1D if several of: purulent nasal	No antibiotics: self-care ^{6D} First line for delayed: phenoxymethylpenicillin ^{5A}	500mg QDS ^{5A-,6D} ©)
NICE Sinusitis (acute) guidance published in July 2017, and the NICE RTIs	discharge; ^{1A+} severe localised unilateral pain; fever; marked deterioration after initial milder phase. ^{1A+} Systemically very unwell, or more serious signs and symptoms: ^{1A+} immediate antibiotic. ^{1A+,5A-} Suspected complications: eg sepsis, intraorbital	Penicillin allergy or intolerance: doxycycline ^{1A+,6D} OR clarithromycin ^{1A+}	200mg stat then 100mg OD ^{6D} 500mg BD ^{6D} ©	5 days ^{1A+}
guidance published in July 2008	or intracranial, refer to secondary care. ^{1A+} Self-care: paracetamol/ibuprofen for pain/fever. ^{6D} Consider high-dose nasal steroid if >12 years. ^{1A+}	Very unwell or worsening: co-amoxiclav ^{1A+,6D}	500/125mg TDS ^{6D} ©	5 days ^{1A+}
I OWED DESDI	Nasal decongestants or saline may help some. 1A+	Mometasone ^{1A+}	200mcg BD ^{1A+}	14 days ^{1A+}
Note: Low doses of	of penicillins are more likely to select for resistance. 1D	Do not use quinolones (ciprofle	oxacin, ofloxacin) first line as the	ere is poor
	ivity. 28- Reserve all quinolones (including levofloxacin)		S. ^{1D}	T
Acute cough & bronchitis NICE RTIs	Antibiotics have little benefit if no co-morbidity. 1A+,2A-Second line: 7 day delayed antibiotic, 3D safety net, and advise that symptoms can last 3 weeks. 3D Consider immediate antibiotics if >80 years of age and one of: hospitalisation in past year; taking oral steroids; insulin-dependent diabetic; congestive heart failure; serious neurological disorder/stroke, 3D	First line: self-care ^{1A+} and safety netting advice ^{3D} Second line: amoxicillin ^{3D,6D} Penicillin allergy:	500mg TDS ^{3D,6D} ©	5 days ^{3D,6D}
Acute	or >65 years with two of the above. 3D Consider CRP if antibiotic is being considered. 4A No antibiotics if CRP<20mg/L and symptoms for >24 hours; delayed antibiotics if 20-100mg/L; immediate antibiotics if >100mg/L. 5D Treat with antibiotics 1A+;2A if purulent sputum and	doxycycline ^{3D,6D} amoxicillin ^{4D} OR	200mg stat then 100mg OD ^{3D,6D} 500mg TDS ^{8A-}	5 days ^{3D,6D}
exacerbation of COPD NICE COPD	increased shortness of breath and/or increased sputum volume. ^{1A+,3D,4D} Risk factors for antibiotic resistance: ^{5A+} severe COPD (MRC>3); ^{6B+} co-morbidity; frequent	doxycycline ^{4D} OR clarithromycin ^{7A+} If at risk of resistance:	200mg stat then 100mg OD ^{8A-} 500mg BD ^{7A+} ©	5 days ^{7A+}
GOLD COPD	exacerbations; ^{3D} antibiotics in the last 3 months. ^{4D}	co-amoxiclav ^{4D}	500/125mg TDS ^{4D} ©	5 days ^{7A+}
Community- acquired pneumonia NICE Pneumonia	Use CRB65 score to guide mortality risk, place of care, and antibiotics. DEach CRB65 parameter scores one: Confusion (AMT≤8 or new disorientation in person, place or time); Respiratory rate ≥30/min; BP systolic <90, or diastolic ≤60; age ≥65. Score 0: low risk, consider home-based care; 1-2: intermediate risk, consider hospital	CRB65=0: amoxicillin ^{1D,4D} OR clarithromycin ^{2A+,4D,5A+} OR doxycycline ^{2A+,4D} CRB65=1-2 and at home (clinically assess need for	500mg TDS ^{5A+} © 500mg BD ^{5A+} © 200mg stat then 100mg OD ^{6A-}	5 days; review at 3 days; ^{1D} 7-10 if poor response ^{1D}
	assessment; 3-4: urgent hospital admission. ^{1D} Give safety-net advice ^{1D} and likely duration of different symptoms, eg cough 6 weeks. ^{1D} Mycoplasma infection is rare in over 65s. ^{2A+,3C}	dual therapy for atypicals): amoxicillin ^{10,4D} AND clarithromycin ^{2A+,4D,5A+} OR doxycycline alone ^{4D}	500mg TDS ^{5A+} © 500mg BD ^{5A+} © 200mg stat then 100mg OD ^{6A-}	7-10 days ^{1D}
URINARY TRAC			10	
Note: As antibiotic self-care advice a	resistance and Escherichia coli bacteraemia in the cound consider risks for resistance. ^{2D} Give TARGET UTI I	mmunity is increasing, use nitr leaflet. ^{3D} and refer to the PHF	oturantoin tirst line,' always giv UTI guidance for diagnostic info	re satety net and rmation. ^{4D}
UTI in adults (lower) PHE UTI	All patients first line antibiotic: nitrofurantoin if GFR >45mls/min. ^{1A+,2A+} If GFR 30-45, only use if no alternative. ^{2A+,3D}	First line: nitrofurantoin 15A- (if fever, use alternative) 15A- If low risk of resistance: 16B+	100mg m/r BD, <i>OR</i> 50mg i/r Q (BD dose increases compliand 200mg BD ^{23A+}	DS ^{27A-}) Warran
Diagnosis TARGET UTI	Treat women with severe/≥3 symptoms. 4D,5B- Women <65 years (mild/≤2 symptoms): 4D pain relief, 6A-7A-,8B- and consider delayed antibiotic. 9B-,10A+	trimethoprim ^{17D,18A+} If first line unsuitable: ^{2A+} pivmecillinam ^{19B+,20D,21A+}	400mg stat then 200mg TDS ²⁶	34B+,35A-,36A- Men: 7
RCGP UTI	If urine not cloudy, 97% NPV of no UTI. 11A- If urine cloudy, use dipstick to guide treatment: 4D,11A- nitrite, leukocyctes, blood all negative 76% NPV; 11A- nitrite plus blood or loukocytes 92% PPV of LTI. 11A-	If organism susceptible: amoxicillin ^{22A+,23A+} If high resistance risk: fosfomycin ^{16B+,24A+,25B-,26B-}	(400mg if high resistance risk) 500mg TDS ^{23A+} Women and men: 3g stat ^{26B-}) 38A-
NHS Scotland	nitrite plus blood or leukocytes 92% PPV of UTI. 11A- Men <65 years: consider prostatitis and send MSU, 40,12D or if symptoms mild or non-specific, use	Low risk of resistance: you Risk factors for increased	Men: a second 3g stat on day 3 (unlicensed) ²⁶ rounger women with acute UTI and no risk. 31B-,38C and resistance include: care home resident; 13A-,14B-	
UTI	negative dipstick to exclude UTI. ^{12D} >65 years: ^{13A} treat if fever ≥38°C, or 1.5°C above base twice in 12 hours, and >1 other symptom. ^{14B} If treatment failure: always perform culture. ^{4D}	recurrent UTI; hospitalisation urinary symptoms; recent tra previous UTI resistant to trim	n for >7 days in the last 6 months evel to a country with increased r nethoprim, cephalosporins, or qu erine for culture and susceptibiliti	s; unresolving esistance; inolones. 39C,40B+,41D







Antibiotic gu	Antibiotic guidance for primary care: For consultation and local adaptation				
ILLNESS	GOOD PRACTICE POINTS	TREATMENT	ADULT DOSE (☺ = child doses)	DURATION OF TREATMENT	
UTI in patients wi	th catheters: antibiotics will not eradicate asymptoma	tic bacteriuria; 1D,2D,3A- only trea	t if systemically unwell or pyelon		
	lactic antibiotics for catheter change unless there is a law onset of delirium, or one or more symptoms of UTI. 34	\-,6B-,7D			
UTI in pregnancy	Send MSU for culture; 10 start antibiotics in all with significant positive culture, even if asymptomatic. 10	First line: nitrofurantoin (avoid at term) ^{2A-,3D,7A+}	100mg m/r BD ^{2A-,9C} <i>OR</i> 50mg i/r QDS ^{2A-,9C}		
SIGN UTI	First line: nitrofurantoin, unless at term. 2A-,3D Second line: trimethoprim; avoid if low folate	Second line: trimethoprim ^{2A-,4D,7A+} (give	200mg BD (off-label) ^{7A+}	7 days ^{10D}	
	status, ^{2A-,4D,5D} or on folate antagonist. ^{4D,5D} Third line: cephalosporins, as risk of <i>C. difficile</i> . ^{6C}	folate if first trimester) ^{5D} Third line: cefalexin ^{4D,8D}	500mg BD ^{9C}	J	
Acute	Send MSU for culture and start antibiotics. 1D 2D	Ciprofloxacin ^{1D,3D} OR ofloxacin ^{1D,3D}	500mg BD ^{1D}	28 days ^{1D,2D}	
prostatitis	4 week course may prevent chronic prostatitis. ^{1D,2D} Quinolones achieve high prostate concentrations. ^{2D}	Second line: trimethoprim ^{1D}	200mg BD ^{1D} 200mg BD ^{1D}	28 days	
UTI in children	Child <3 months: refer urgently for assessment. 1D	Lower UTI: nitrofurantoin 1A-	OR trimethoprim ^{1A-} © ©	144	
NICE UTI in under 16s	Child ≥3 months: use positive nitrite to guide antibiotic use; ^{1A} send pre-treatment MSU. ^{1D}	Second line: cefalexin ^{1D} If organism susceptible: amo	oxicillin ^{1A-} ©	3 days ^{1A+}	
under 105	Imaging: refer if child <6 months, or recurrent or		cs to: obtain a urine sample for	culture; ^{1D}	
	atypical UTI. ^{1D}	assess for signs of systemic	infection; 1D consider systemic ar	ntimicrobials.1D	
Acute pyelonephritis	If admission not needed, send MSU for culture and susceptibility testing, 1D and start antibiotics. 1D	Ciprofloxacin ^{2D,5A-,6D} OR co-amoxiclav ^{2D,5A-}	500mg BD ^{2D,5A-,6D} 500/125mg TDS ^{2D}	7 days ^{2D,5A-,7A+} 7 days ^{5A-,7A+}	
pyelonepiirus	If no response within 24 hours, seek advice. 10,20	co-amoxiciav	300/12311Ig 1D3	1 days	
	If ESBL risk, 3A+ and on advice from a	If organism sensitive:	DD 5A-7A+	7∆±	
Recurrent UTI in	microbiologist, consider IV antibiotic via OPAT. ^{4D} First line: advise simple measures, ^{1D} including	trimethoprim ^{5A-,7A+} Antibiotic prophylaxis:	200mg BD ^{5A-,7A+}	14 days ^{7A+} 3-6 months, ^{1D}	
non-pregnant	hydration: 1D,2D,3D ibuprofen for symptom relief. 4A-,5A-	First line: nitrofurantoin 9A+	100mg m/r ^{9A+} At night or	then review	
women	Cranberry products work for some women. 6D,7A+,8A+	Second line: ciprofloxacin 9A+	500mg ^{9A+} post-coital	recurrence rate	
(2 in 6 months or >3 in a year)	Second line: stand-by ^{1D} or post-coital antibiotics. ^{9A+} Third line: antibiotic prophylaxis. ^{1D,9A+,10D} Consider	If recent culture sensitive: trimethoprim 9A+	stat (off-label)	and need ^{1D,9A+}	
TARGET UTI	methenamine if no renal/hepatic impairment. 11A+	Methenamine hippurate ^{11A+}	100mg ^{9A+} 1g BD ^{11A+}	6 months ^{1D,11A+}	
MENINGITIS			<u> </u>		
Suspected	Transfer all patients to hospital immediately. 1D	IV or IM	Child <1 year: 300mg ^{5D})	
meningococcal disease	If time before hospital admission, 2D,3A+ and non-	benzylpenicillin ^{1D,2D}	Child 1-9 years: 600mg ^{5D} Adult/child 10+ years: 1.2g ^{5D}	Stat dose; ^{1D} give IM, if	
NICE Meningitis	blanching rash, ^{2D,4D} give IV benzylpenicillin ^{1D,2D,4D} or IV cefotaxime. ^{2D} Do not give IV antibiotics if	OR	Additioning 10+ years. 1.29	vein cannot	
	there is a definite history of anaphylaxis; 1D rash is	IV or IM cefotaxime ^{2D}	Child <12 years: 50mg/kg ^{5D}	be accessed ^{1D}	
Decimalism of and	not a contraindication.	an advisa franciska political basel	Adult/child 12+ years: 1g ^{5D}	<u>J</u> t: ☎ ********	
Prevention of sec	condary case of meningitis: Only prescribe following Out of hours: contact of		h protection specialist/consultan	t. 4	
	TINAL TRACT INFECTIONS	44.45.5		417.617	
Oral candidiasis	Topical azoles are more effective than topical nystatin. ^{1A+} Oral candidiasis is rare in	Miconazole oral gel ^{1A+,4D,5A-}	2.5ml of 24mg/ml QDS (hold in mouth after food) ^{4D} ©	7 days; ^{4D,6D} coninue	
CKS Candida	immunocompetent adults; ^{2D} consider undiagnosed risk factors, including HIV. ^{2D} Use 50mg fluconazole	If not tolerated:	,	nystatin 2d &	
	risk factors, including HIV. 2D Use 50mg fluconazole	nystatin suspension ^{2D,6D,7A}	1ml; 100,000 units/mL QDS	azole 7d after	
	if extensive/severe candidiasis; ^{3D,4D} if HIV or immunocompromised, use 100mg fluconazole. ^{3D,4D}	Fluconazole capsules ^{6D,7A} -	(half in each side) ^{2D,4D,7A-} © 50mg/100mg OD ^{3D,6D,8A-} ©	resolved ^{4D} 7-14 days ^{6D,7A-,8A-}	
Helicobacter	Treat all positives, if known DU, GU, ^{1A+} or low grade	Always use PPI ^{2D,3D,5A+,12A+}	(0)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
pylori	MALToma. 2D,3D NNT in non-ulcer dyspepsia: 14.4A+	PPI PLUS amoxicillin PLUS	1a BD ^{14A+} ◎		
NICE GORD	Do not offer eradication for GORD. 3D Do not use	clarithromycin <i>OR</i> metronidazole ^{2D,6B+}	500mg BD ^{8A} © 400mg BD ^{2D} ©		
and dyspepsia	clarithromycin, metronidazole or quinolone if used in the past year for any infection. 5A+,6B+,7A+	Penicillin allergy &	רים אווויסט ר		
PHE H. pylori	Penicillin allergy: use PPI PLUS clarithromycin	previous clarithromycin:	©	7-14 days; ^{14A+}	
	PLUS metronidazole. 2D If previous clarithromycin, use PPI PLUS bismuth salt PLUS metronidazole	PPI WITH bismuth subsalicylate 13A+ PLUS	525mg QDS ^{15D}	MALToma 14 days ^{7A+,16A+}	
	PLUS tetracycline hydrochloride. 2D,8A-,9D	metronidazole PLUS	400mg BD ^{2D} ©	days	
	Relapse and previous metronidazole and	tetracycline hydrochloride ^{2D}	500mg QDS ^{15D}		
	clarithromycin: use PPI PLUS amoxicillin PLUS either tetracycline OR levofloxacin. 2D,7A+	Relapse: PPI PLUS amoxicillin PLUS	1g BD ^{14A+} ©		
	Retest for H. pylori: post DU/GU, or relapse after	tetracycline hydrochloride	500mg QDS ^{15D}		
	second line therapy, 1A+ using UBT or SAT, 10A+,11A+	OR levofloxacin ^{2D,7A+}	250mg BD ^{7A+}	/	
	consider referral for endoscopy and culture. ^{2D}	Third line on advice: 14 day	ys PPI <i>PLUS</i> bismuth salt <i>PLUS</i> 150mg BD, ^{14A+} or furazolidone 2	two antibiotics not	
Infectious	Refer previously healthy children with acute painful o	r bloody diarrhoea, to exclude	E. coli 0157 infection. 1D Antibio	tic therapy is not	
diarrhoea PHE Diarrhoea	usually indicated unless patient is systemically u meat and abdominal pain), 30 consider clarithromycin	nwell.20 If systemically unwell	and campylobacter suspected (eg undercooked	
Clostridium	Stop unneccesary antibiotics, 1D,2D PPIs, 3B- and	First enisode:		45.45	
difficile	antiperistaltic agents. ^{2D} Mild cases (<4 episodes of	metronidazole ^{1D,2D,4B} -	400mg TDS ^{1D,2D} ©	10-14 days ^{1D,4B} -	
PHE Clostridium difficile	diarrhoea/day) may respond without metronidazole; ^{2D} 70% respond to metronidazole in	Severe/type 027/recurrent:			
	5 days; 92% respond to metronidazole in 14 days. 4B-	oral vancomycin 1D,2D,5A-	125mg QDS ^{1D,2D,5A-}	10-14 days, ^{1D,2D}	
	If severe (T>38.5, or WCC>15, rising creatinine,			then taper ^{2D}	
	or signs/symptoms of severe colitis): ^{2D} treat with oral vancomycin, ^{1D,2D,5A} review progress	Recurrent or second line: fidaxomicin ^{2D,5A-}	200mg BD ^{5A-}	10 days ^{5A-}	
	closely, ^{1D,2D} and consider hospital referral. ^{2D}		ق	· = ==,=	







Antibiotic guidance for primary care: For consultation and local adaptation

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ILLNESS	GOOD PRACTICE POINTS	TREATMENT	(© = child doses)	TREATMENT
Traveller's diarrhoea	Prophylaxis rarely, if ever, indicated. ^{1D} Consider stand-by antimicrobial only for patients at high risk of severe illness, ^{2D} or visiting high risk areas. ^{1D,2D}	Stand-by: azithromycin ^{1D,3A+} Prophylaxis/treatment: bismuth subsalicylate ^{1D,4A-}	500mg OD ^{1D,2D,3A+} 2 tablets QDS ^{1D,2D}	1-3 days ^{1D,2D,3A+} 2 days ^{1D,2D,4A-}
Threadworm CKS Threadworm	Treat all household contacts at the same time. The Advise hygiene measures for two weeks the hygiene; and the same time that hygiene; pants at night; morning shower, including perianal area). Next Wash sleepwear, bed linen, and dust and vacuum. Dehild <6 months, add perianal wet wiping or washes three hourly.	Child >6 months: mebendazole ^{1D,3B-} Child <6 months or pregnancy (at least in 1 st trimester): only hygiene measure for 6 weeks ^{1D}	100mg stat ^{3B} -	Stat dose; ^{3B-} repeat in 2 weeks if persistent ^{3B-}
GENITAL TRAC				
STI screening	People with risk factors should be screened for chlar Risk factors: <25 years; no condom use; recent/free	nydia, gonorrhoea, HIV, and sy	philis. 1D Refer individual and pa	ortners to GUM. 1D
Chlamydia trachomatisl urethritis SIGN Chlamydia	Opportunistically screen all patients aged 16-24 years. ^{1B} Treat partners and refer to GUM. ^{2D,3A+} Repeat test for cure in all at three months. ^{1B-,4B-} Pregnancy/breastfeeding: azithromycin is most effective. ^{5A+,6D,7A+,8A+,9D} As lower cure rate in pregnancy, test for cure at least three weeks after end of treatment. ^{1B-,3A+}	First line: azithromycin ^{2D,3A+,5A+,7A+,8A+} OR doxycycline ^{2D,3A+,5A+} Pregnancy/breastfeeding: azithromycin ^{3A+,7A+,8A+,9D} OR erythromycin ^{3A+,6D,7A+,8A+} OR amoxicillin ^{6D,7A+,8A+}	1g ^{2D,3A+,5A+,7A+} 100mg BD ^{2D,3A+,5A+} 1g ^{2D,3A+,5A+,7A+} 500mg BD ^{3A+} OR 500mg QDS ^{3A+} 500mg TDS ^{7A+,8A+}	Stat ^{2D,3A+,5A+,7A+,8A+} 7 days ^{2D,3A+,5A+} Stat ^{2D,3A+,5A+,7A+,8A+} 14 days ^{3A+} 7 days ^{3A+} 7 days ^{7A+,8A+}
Epididymitis	Usually due to Gram-negative enteric bacteria in men over 35 years with low risk of STI. 1A+,2D If under 35 years or STI risk, refer to GUM. 1A+,2D	Doxycycline ^{1A+,2D,3A+} OR ofloxacin ^{1A+,2D} OR ciprofloxacin ^{1A+,2D,3A+}	100mg BD ^{1A+,2D,3A+} 200mg BD ^{1A+,2D} 500mg BD ^{1A+,2D,3A+}	10-14 days ^{1A+,2D} 14 days ^{1A+,2D} 10 days ^{1A+,2D,3A+}
Vaginal candidiasis BASHH Vulvovaginal candidiasis	All topical and oral azoles give over 70% cure. ^{1A+,2A+} Pregnancy: avoid oral azoles, ^{1A+,3D} and use intravaginal treatment for 7 days. ^{4A+} Recurrent (>4 episodes per year): ^{5D} 150mg oral fluconazole every 72 hours for three doses induction, ^{1A+} followed by one dose once a week for six months maintenance. ^{1A+,5D}	Clotrimazole ^{1A+,5D} OR miconazole ^{1A+} OR oral fluconazole ^{1A+,3D} Recurrent: fluconazole (induction/maintenance) ^{1A+}	500mg pessary ^{1A+} <i>OR</i> 5g 10% cream ^{1A+} 100mg pessary ^{1A+} 150mg ^{1A+,3D} 150mg every 72 hours <i>THEN</i> 150mg once a week ^{1A+,3D,5D}	Stat ^{1A+} 14 nights ^{1A+} Stat ^{1A+} ,3D 3 doses ^{1A+} 6 months ^{1A+,5D}
Bacterial vaginosis BASHH Bacterial vaginosis	Oral metronidazole is as effective as topical treatment, ^{1A+} and is cheaper. ^{2D} Seven days results in fewer relapses than 2g stat at four weeks. ^{1A+,2D} Pregnant/breastfeeding: avoid 2g dose. ^{3A+,4D} Treating partners does not reduce relapse. ^{5A+}	Oral metronidazole 1A+,3A+ OR metronidazole 0.75% vaginal gel1A+,2D,3A+ Clindamycin 2% cream 1A+,2D	400mg BD ^{1A+,3A+} 2g ^{1A+,2D} 5g applicator at night ^{1A+,2D,3A+} 5g applicator at night ^{1A+,2D,3A+}	7 days ^{1A+} Stat ^{2D} 5 nights ^{1A+,2D,3A+} 7 nights ^{1A+,2D,3A+}
Genital herpes BASHH Anogenital herpes	Advise: saline bathing, ^{1A+} analgesia, ^{1A+} or topical lidocaine for pain, ^{1A+} and discuss transmission. ^{1A+} First episode: treat within five days if new lesions or systemic symptoms, ^{1A+,2D} and refer to GUM. ^{2D} Recurrent: self-care if mild, ^{2D} or immediate short course antiviral treatment, ^{1A+,2D} or suppressive therapy if more than six episodes per year. ^{1A+,2D}	First line: oral aciclovir ^{1A+,2D,3A+,4A+} OR valaciclovir ^{1A+,3A+,4A+} OR famciclovir ^{1A+,4A+}	400mg TDS ^{1A+,3A+} 800mg TDS (if recurrent) ^{1A+} 500mg BD ^{1A+} 250mg TDS ^{1A+} 1g BD (if recurrent) ^{1A+}	5 days ^{1A+} 2 days ^{1A+} 5 days ^{1A+} 5 days ^{1A+} 1 day ^{1A+}
Gonorrhoea	Antibiotic resistance is now very high. ^{1D,2D} Use IM ceftriaxone ^{2D} and oral azithromycin; ^{1D,3D} refer to GUM. ^{4B} -Test of cure is essential. ^{3D}	Ceftriaxone 1D,2D,3D,4B- PLUS oral azithromycin 1D,3D,4B-	500mg IM ^{1D,2D}	Stat ^{3B} -
Trichomoniasis BASHH Trichomoniasis	Oral treatment needed as extravaginal infection common. ^{1D} Treat partners, ^{1D} and refer to GUM for other STIs. ^{1D} Pregnancy/breastfeeding: avoid 2g single dose metronidazole; ^{2A+,3D} clotrimazole for symptom relief (not cure) if metronidazole declined. ^{2A+,4A-,5D}	Metronidazole 1A+,2A+,3D,6A+ Pregnancy for symptoms: clotrimazole 2A+,4A-,5D	400mg BD ^{1A+,6A+} 2g (more adverse effects) ^{6A+} 100mg pessary at night ^{5D}	5-7 days ^{1A+} Stat ^{1A+,6A+} 6 nights ^{5D}
Pelvic inflammatory disease BASHH PID	Refer women and sexual contacts to GUM. ^{1A+} Always culture for gonorrhoea and chlamydia. ^{1A+} If gonorrhoea likely (partner has it; sex abroad; severe symptoms), ^{2A-} use regimen with ceftriaxone, as resistance to quinolones is high. ^{1A+,2A-,3C,4C}	Metronidazole ^{1A+,5A+} PLUS ofloxacin ^{1A+,2A-,5A+} GC: metronidazole PLUS doxycycline ^{1A+,5A+} PLUS ceftriaxone ^{3C,4C}	400mg BD ^{1A+} 400mg BD ^{1A+} ,2A- 400mg BD ^{1A+} 100mg BD ^{1A+} 500mg IM ^{1A+} ,3C	} 14 days ^{1A+} Stat ^{1A+,3C}
SKIN AND SOF	T TISSUE INFECTIONS		•	
	GP Skin Infections online training.¹D For MRSA, discus			
Impetigo PHE Impetigo	Reserve topical antibiotics for very localised lesions to reduce risk of bacteria becoming resistant ^{10,2B+} Only use mupirocin if caused by MRSA. ^{1D,3A+} Extensive, severe, or bullous: oral antibiotics ^{4D} .	Topical fusidic acid ^{2D,3A+} MRSA: topical mupirocin ^{3A+} Oral flucloxacillin ^{1D,3A+} Oral clarithromycin ^{1D,4D}	Thinly TDS ^{4D}	5 days ^{1D,2D} 5 days ^{1D,2D,3A+} 7 days ^{3A+} 7 days ^{4D}
Cold sores CKS Cold sores PVL-SA PHE PVL-SA	Most resolve after 5 days without treatment. ^{1A-,2A-} Topical antivirals applied prodromally can reduce duration by 12-18 hours. ^{1A-,2A-,3A-} If frequent, severe, and predictable triggers: consider oral prophylaxis: ^{4D,5A+} aciclovir 400mg, twice daily, for 5-7 days. ^{5A+,6A+} Panton-Valentine leukocidin (PVL) is a toxin produced by 20.8-46% of <i>S. aureus</i> from boils/abscesses. ^{1B+,2B+,3B-} PVL strains are rare in healthy people, but severe. ^{2B+} Suppression therapy should only be started after primary infection has resolved, as ineffective if lesions are still leaking. ^{4D} Risk factors for PVL: recurrent skin infections; ^{2B+} invasive infections; ^{2B+} MSM; ^{3B-} if there is more than one case in a home or close community ^{2B+,3B-} (school children; ^{3B-} millitary personell; ^{3B-} nursing home residents; ^{3B-} household contacts). ^{3B-} No visible signs of infection: antibiotic use (alone or with steroids) ^{1A+} encourages resistance and does not improve healing. ^{1A+}			
NICE Eczema	With visible signs of infection: use oral flucloxacillin ^{2D} or clarithromycin, ^{2D} or topical treatment (as in impetigo). ^{2D}			







ILLNESS	GOOD PRACTICE POINTS	TREATMENT	ADULT DOSE	DURATION OF
ILLNESS			(© = child doses)	TREATMENT
Acne CKS Acne vulgaris	Mild (open and closed comedones) ^{1D} or moderate (inflammatory lesions): ^{1D} First line: self-care ^{1D} (wash with mild soap; do not scrub; avoid make-up). ^{1D} Second line: topical retinoid or benzoyl peroxide. ^{2D} Third-line: add topical antibiotic, ^{1D,3A+} or consider addition of oral antibiotic. ^{1D} Severe (nodules and cysts): ^{1D} add oral antibiotic (for 3 months max) ^{1D,3A+} and refer. ^{1D,2D}	First line: self-care ^{1D} Second line: topical retinoid ^{1D,2D,3A+} OR benzoyl peroxide ^{1A,2D,3A+,4A-} Third-line: topical clindamycin ^{3A+} If treatment failure/severe: oral tetracycline ^{1A,3A+} OR oral doxycycline ^{3A+,4A-}	Thinly OD ^{3A+} © 5% cream OD-BD ^{3A+} © 1% cream, thinly BD ^{3A+} © 500mg BD ^{3A+} © 100mg OD ^{3A+} ©	6-8 weeks ^{1D} 6-8 weeks ^{1D} 12 weeks ^{1A-,2D} 6-12 weeks ^{3A+} 6-12 weeks ^{3A+}
Cellulitis and erysipelas CREST Cellulitis BLS Cellulitis	Class I: patient afebrile and healthy other than cellulitis, use oral flucloxacillin alone. D.2D,3A+ If river or sea water exposure: seek advice. D. Class II: patient febrile and ill, or comorbidity, admit for intravenous treatment, D or use OPAT. D. Class III: if toxic appearance, admit. D. Erysipelas: often facial and unilateral. D.2D,3A+ Use flucloxacillin for non-facial erysipelas.	Flucloxacillin ^{1D,2D,3A+} Penicillin allergy: clarithromycin ^{1D,2D,3A+,5A+} Penicillin allergy and taking statins: doxycycline ^{2D} Unresolving: clindamycin ^{3A+} Facial (non-dental): co-amoxiclav ^{6B-}	500mg QDS ^{1D,2D}	7 days; ^{1D} if slow response, continue for a further 7 days ^{1D}
Leg ulcer PHE Venous leg ulcers	Ulcers are always colonised. 1C,2A+ Antibiotics do not improve healing unless active infection 2A+ (purulent exudate/odour; increased pain; cellulitis; pyrexia). 3D	-	500mg QDS ^{5D} © 500mg BD ^{5D} © eactive oxygen gel may reduce	As for cellulitis ^{5D} bacterial load. ^{6D,7B-}
Bites: CKS Bites	Human: thorough irrigation is important. ^{1A+,2D} Antibiotic prophylaxis is advised. ^{1A+,2D,3D} Assess risk of tetanus, rabies, ^{1A+} HIV, and hepatitis B and C. ^{3D} Cat: always give prophylaxis. ^{1A+,3D} Dog: give prophylaxis if: puncture wound; ^{1A+,3D} bite to hand, foot, face, joint, tendon, or ligament; ^{1A+} immunocompromised, cirrhotic, asplenic, or presence of prosthetic valve/joint. ^{2D,4A+} Penicillin allergy: Review all at 24 and 48 hours, ^{3D} as not all pathogens are covered. ^{2D,3D}	Prophylaxis/treatment all: co-amoxiclav ^{2D,3D} Human penicillin allergy: metronidazole ^{3D,4A+} AND clarithromycin ^{3D,4A+} Animal penicillin allergy: metronidazole ^{3D,4A+} AND doxycycline ^{3D}	375-625mg TDS ^{3D} © 400mg TDS ^{2D} © 250-500mg BD ^{2D} © 400mg TDS ^{2D} © 100mg BD ^{2D} ©	7 days ^{3D,5D}
Scabies NHS Scabies	Treat whole body from ear/chin downwards, ^{1D,2D} and under nails. ^{1D,2D} Under 2 years/elderly: also treat face/scalp. ^{1D,2D} Home/sexual contacts: treat within 24 hours. ^{1D}	Permethrin 1D,2D,3A+ Permethrin allergy: malathion 1D	5% cream ^{1D,2D} © 0.5% aqueous liquid ^{1D} ©	2 applications, 1 week apart ^{1D}
Mastitis CKS Mastitis and breast abscess	S. aureus is the most common infecting pathogen. Description Suspect if woman has: a painful breast; before and/or general malaise; Description at the author of the autho	Flucloxacillin ^{2D} Penicillin allergy: erythromycin ^{2D} OR clarithromycin ^{2D}	500mg QDS ^{2D} 250-500mg QDS ^{2D} 500mg BD ^{2D}	10-14 days ^{2D}
Dermatophyte infection: skin PHE Fungal skin and nail infections	Most cases: terbinafine is fungicidal; ^{1D} treatment time shorter than with fungistatic imidazoles. ^{1D,2A+,3A+} If candida possible, use imidazole. ^{4D} If intractable, or scalp: send skin scrapings. ^{1D} If infection confirmed: use oral terbinafine ^{1D,3A+,4D} or itraconazole. ^{2A+,3A+,5D} Scalp: oral therapy, ^{6D} and discuss with specialist. ^{1D}	Topical terbinafine ^{3A+,4D} OR topical imidazole ^{2A+,3A+} For athlete's foot: topical undecenoates ^{2A+} (eg Mycota [®]) ^{2A+}	1% OD-BD ^{2A+} © 1% OD-BD ^{2A+} © OD-BD ^{2A+} ©	1-4 weeks ^{3A+} 4-6 weeks 2A+,3A+
Dermatophyte infection: nail CKS Fungal nail infection	Take nail clippings; ^{1D} start therapy only if infection is confirmed. ^{1D} Oral terbinafine is more effective than oral azole. ^{1D,2A+,3A+,4D} Liver reactions 0.1 to 1% with oral antifungals. ^{3A+} If candida or non-dermatophyte infection is confirmed, use oral itraconazole. ^{1D,3A+,4D} Topical nail lacquer is not as effective. ^{1D,5A+,6D}	First line: terbinafine 1D,2A+,3A+,4D,6D Second line: itraconazole 1D,3A+,4D,6D	」 T. 200ma BD ^{1D,4D} ◎ 1 1	ingers: 6 weeks ^{1D,6D} oes: 12 weeks ^{1D,6D} week a month: 1D ingers: 2 courses ^{1D}
	To prevent recurrence: apply weekly 1% topical antifungal cream to entire toe area. ^{6D} Children: seek specialist advice. ^{4D}		Stop treatment when continua proximal nail growth. 6D	oes: 3 courses ^{1D}
Varicella zoster/ chickenpox PHE Varicella Herpes zoster/ shingles PCDS Herpes zoster	Pregnant/immunocompromised/neonate: seek urgent specialist advice. Chickenpox: consider aciclovir ^{2A+,3A+,4D} if: onset of rash <24 hours, ^{3A+} and one of the following: >14 years of age; ^{4D} severe pain; ^{4D} dense/oral rash; ^{4D,5B+} taking steroids; ^{4D} smoker. ^{4D,5B+} taking steroids; ^{4D} smoker. ^{4D,5B+} Shingles: treat if >50 years ^{6A+,7D} (PHN rare if <50 years) ^{8B+} and within 72 hours of rash, ^{9A+} or if one of the following: active ophthalmic; ^{1D} Ramsey Hunt; ^{4D} eczema; ^{4D} non-truncal involvement; ^{7D} moderate or severe pain; ^{7D} moderate or severe rash. ^{5B+,7D} Shingles treatment if not within 72 hours: consider starting antiviral drug up to one week	Aciclovir ^{3A+,6A+,9A+,12B+,13A-,14A+} Second line for shingles if poor compliance: not for chlidren: famciclovir ^{7D,13A-,15A-} OR valaciclovir ^{7D,9A+,13A-}	800mg five times daily ^{15A-} © 250-500mg TDS ^{14A+} <i>OR</i> 750mg BD ^{14A+} 1g TDS ^{13A-} ©	7 days ^{13A-,15A-}
	consider starting antiviral drug up to one week after rash onset, ^{11B+} if high risk of severe shingles ^{11B+} or complications ^{11B+} (continued vesicle formation; ^{4D} older age; ^{6A+,7D,11B+} immunocompromised; ^{4D} severe pain). ^{7D,11B+}			





ILLNESS	GOOD PRACTICE POINTS	TREATMENT	ADULT DOSE (☺ = child doses)	DURATION OF TREATMENT
EYE INFECTION	NS			
Conjunctivitis AAO Conjunctivitis	First line: bath/clean eyelids with cotton wool dipped in sterile saline or boiled (cooled) water, to remove crusting. Treat only if severe, ^{2A+} as most cases are viral ^{3D} or self-limiting. ^{2A+} Bacterial conjunctivitis: usually unilateral and also self-limiting. ^{2A+,3D} It is characterised by red eye with mucopurulent, not watery discharge. 65% and 74% resolve on placebo by days 5 and 7. Second line: fusidic acid as it has less gramnegative activity. 6A-,7D	First line: self-care ^{1D} Second line: chloramphenicol ^{1D,2A+,4A-,5A+} 0.5% eye drop ^{1D,2A+} OR 1% ointment ^{1D,5A+} Third line: fusidic acid 1% gel ^{2A+,5A+,6A-}	2 hourly for 2 days, ^{1D,2A+} then reduce frequency ^{1D} © 3-4 times daily, ^{1D} or just at night if using eye drops ^{1D} BD ^{1D,7D} ©	48 hours after resolution ^{2A+,7D}
Blepharitis CKS Blepharitis	First line: lid hygiene ^{1D,2A+} for symptom control, ^{1D} including: warm compresses; ^{1D,2A+} lid massage and scrubs; ^{1D} gentle washing; ^{1D} avoiding cosmetics. ^{1D} Second line: topical antibiotics if hygiene measures are ineffective after 2 weeks. ^{1D,3A+} Signs of Meibomian gland dysfunction, ^{3D} or acne rosacea: ^{3D} consider oral antibiotics. ^{1D}	First line: self-care ^{1D} Second line: Chloramphenicol ^{1D,2A+,3A-} Third lne: oral oxytetracycline ^{1D,3D} OR oral doxycycline ^{1D,2A+,3D}	1% ointment BD ^{2A+,3D} © 500mg BD ^{3D} © 250mg BD ^{3D} © 100mg OD ^{3D} © 50mg OD ^{3D} ©	6 week trial ^{3D} 4 weeks (initial) ^{3D} 8 weeks (maint) ^{3D} 4 weeks (initial) ^{3D} 8 weeks (maint) ^{3D}

Summary table – Suspected dental infections in primary care (outside dental setting)

Derived from the Scottish Dental Clinical Effectiveness Programme (SDCEP) 2013 Guidelines

This guidance is not designed to be a definitive guide to oral conditions, as GPs should not be involved in dental treatment. Patients presenting to non-dental primary care services with dental problems should be directed to their regular dentist, or if this is not possible, to the NHS 111 service (in England), who will be able to provided details of how to access emergency dental care.

who will be able to provided details of now to access emergency dental care.				
ILLNESS	GOOD PRACTICE POINTS	TREATMENT	ADULT DOSE	DURATION OF TREATMENT
A1 1 A 1'1 1 1	10 Et al. 10	· 4D // 11 5 1D	(☺ = child doses)	
	not cure toothache. Terst line treatment is with para		codeine is not effective for tooth	
Mucosal	Temporary pain and swelling relief can be attained	Saline mouthwash ^{1D}	½ tsp salt in warm water ^{1D} ©	Always spit
ulceration and	with saline mouthwash. 1D Use antiseptic	011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		out after use ^{1D}
inflammation	mouthwash if more severe, 1D and if pain limits oral	Chlorhexidine 0.12-0.2% ^{1D,}		
(simple	hygiene to treat or prevent secondary infection. 1D,2A- The primary cause for mucosal ulceration or	^{2A-,3A+,4A+} (do not use within 30mins of toothpaste) ^{1D}	1 min BD with 10mL ^{1D} ©	Use until lesions
gingivitis) SDCEP Dental	inflammation (aphthous ulcers; ^{1D} oral lichen	somins of toothpaste)		resolve 1D/less
problems	planus; 1D herpes simplex infection; 1D oral cancer) 1D	Hydrogen peroxide 6% ^{5A-}	2-3 mins BD-TDS with 15ml	pain allows for
problems	needs to be evaluated and treated. ^{1D}	(spit out after use) ^{1D}	in ½ glass warm water ^{1D} ©	oral hygiene 1D
Acute	Refer to dentist for scaling and hygiene advice. 1D,2D	Chlorhexidine 0.12-0.2% ^{1D})	Until pain allows
necrotising	Antiseptic mouthwash if pain limits oral hygiene. 1D	OR	See above dosing for	for oral hygiene ^{6D}
ulcerative	Commence metronidazole in the presence of	hydrogen peroxide 6% ^{1D}	mucosal ulceration 6D	
gingivitis	systemic signs and symptoms. 1D,2D,3B-,4B+,5A-	Metronidazole ^{1D,3B-,4B+,5A-}	400mg TDS ^{1D,2D}	3 days ^{1D,2D}
Pericoronitis	Refer to dentist for irrigation and debridement. 1D	Metronidazole ^{1D,2A+,3B+} OR	400mg TDS ^{1D} ©	3 days ^{1D,2A+}
SDCEP Dental	If persistent swelling or systemic symptoms, ^{1D} use metronidazole ^{1D,2A+,3B+} or amoxicillin. ^{1D,3B+}	amoxicillin ^{1D,3B+}	500mg TDS ^{1D} ©	3 days ^{1D}
problems			5	
	Use antiseptic mouthwash if pain and trismus limit	Chlorhexidine 0.2% ^{1D} OR	See above dosing for	Until pain allows
	oral hygiene. ^{1D}	hydrogen peroxide 6% ^{1D}	mucosal ulceration ^{1D}	for oral hygiene ^{1D}
Dental abscess	Regular analgesia should be the first option 1A+ 4A+ Regular analgesia should be the			
SDCEP Dental problems	antibiotics for abscesses are not appropriate. Antibiotics alone, without drainage, are ineffective in preventing the spread of infection. Antibiotics are only recommended if there are signs of severe infection, Antibiotics symptoms, Antibiotics are only recommended if there are signs of severe infection, Antibiotics symptoms, Antibiotics are only recommended if there are signs of severe infection, Antibiotics symptoms, Antibiotics are only recommended if there are signs of severe infection, Antibiotics symptoms, Antibiotics are only recommended in the symptoms.			
problems	high risk of complications. 1At Patients with severe odontogenic infections (cellulitis, 1A+,3A+ plus signs of sepsis, 3A+,4A+ difficulty in			difficulty in
	swallowing, ^{6D} impending airway obstruction) ^{6D} should be referred urgently for hospital admission to protect airway, ^{6D} for surgical drainage ^{3A+} and for IV antibiotics. ^{3A+} The empirical use of cephalosporins, ^{6D} co-amoxiclay, ^{6D} clarithromycin, ^{6D} and clindamycin ^{6D} do			
	not offer any advantage for most dental patients, 6D ar	nd should only be used if there	e is no response to first line drug	s. ^{6D}
	If pus is present, refer for drainage, 1A+,2B- tooth	Amoxicillin ^{6D,8B+,9C,10B+} OR	500mg-1g TDS ^{6D} ©)
	extraction, ^{2B-} or root canal. ^{2B-} Send pus for	phenoxymethylpenicillin ^{11B-}	500mg-1g QDS ^{6D} ©	
	investigation. ^{1A+} If spreading infection ^{1A+} (lymph		95	Up to 5 days; ^{6D,}
	node involvement ^{1A+,4A+} or systemic signs, ^{1A+,2B-,4A+}	Metronidazole ^{6D,8B+,9C}	400mg TDS ^{6D} ©	review at 3
	ie fever ^{1A+} or malaise) ^{4A+} <i>ADD</i> metronidazole. ^{6D,7B+}	6		days ^{9C,10B+}
	Use clarithromycin in true penicillin allergy ^{6D} and, if	Penicillin allergy:	500 DD ^{6D}	
	severe, refer to hospital. 3A+,6D	clarithromycin	500mg BD ^{6D} ©	/







GRADING OF GUIDANCE RECOMMENDATIONS

The strength of each recommendation is qualified by a letter in parenthesis. This is an altered version of the grading recommendation system used by SIGN.

STUDY DESIGN	RECOMMENDATION GRADE
Good recent systematic review and meta-analysis of studies	A+
One or more rigorous studies; randomised controlled trials	A-
One or more prospective studies	B+
One or more retrospective studies	B-
Non-analytic studies, eg case reports or case series	С
Formal combination of expert opinion	D

This guidance was originally produced in 1999 by the South West GP Microbiology Laboratory Use Group, in collaboration with the Cheltenham & Tewkesbury Prescribing Group, the Association of Medical Microbiologists, general practitioners, nurses and specialists in the field, as part of the S&W Devon Joint Formulary Initiative. It has since been modified by the PHLS South West Antibiotic Guidelines Project Team, PHLS Primary Care Co-Ordinators, and members of the Clinical Prescribing Sub-Group of the Standing Medical Advisory Committee on Antibiotic Resistance. This guidance underwent a full systematic review and update in 2017, with input from Professor Cliodna McNulty; Dr Teh Li Chin; the Advisory Committee on Antimicrobial Resistance and Healthcare Associated Infection (ARHAI); the British Society for Antimicrobial Chemotherapy (BSAC); the British Infection Association (BIA); the Royal College of General Practitioners (RCGP); the Royal College of Nursing (RCN); general practitioners; specialists in the field; and patient representatives. Full consensus of the recommendations made was given by all guidance developers and reviewers prior to the dissemination of this guidance. All comments received have been reviewed and incorporated into the guidance, where appropriate. For detailed information regarding the comments provided and action taken, please email sarah.alton@phe.gov.uk. Public Health England works closely with the authors of the Clinical Knowledge Summaries.

This guidance should not be used in isolation; it should be supported with patient information about safety netting, delayed/back-up antibiotics, infection severity and usual duration, clinical staff education, and audits. Materials are available on the RCGP TARGET website.

If you would like to receive a copy of this guidance with the most recent changes highlighted, please email sarah.alton@phe.gov.uk.

For detailed information regarding the search strategies implemented and full literature search results, please email sarah.alton@phe.gov.uk.





