

# BNF CHAPTER 5: INFECTIONS

# December 2012. South East Essex PCT Drug and Therapeutics Committee

#### **Aims**

- to provide a simple, safe, effective, economical and empirical approach to the treatment of common infections
- □ 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 judgment should be used and patients should be involved in the decision.
- 2. It is important to initiate antibiotics as soon as possible for severe infection.
- 3. A dose and duration of treatment for adults is usually suggested, but may need modification for age, weight and renal function. In severe or recurrent cases consider a larger dose or longer course.
- 4. Lower threshold for antibiotics in immunocompromised or those with multiple morbidities; consider culture and seek advice.
- 5. Prescribe an antibiotic only when there is likely to be a clear clinical benefit.
- 6. Consider a no, or delayed, antibiotic strategy for acute self-limiting upper respiratory tract infections
- 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 risk of *Clostridium difficile*, MRSA and resistant UTIs.
- 9. Avoid widespread use of topical antibiotics (especially those agents also available as systemic preparations, e.g. fusidic acid).
- 10. In PREGNANCY, take specimens to inform treatment; where possible AVOID tetracyclines, aminoglycosides, quinolones, *high dose* metronidazole (2 g). Short-term use of nitrofurantoin (at term, theoretical risk of neonatal haemolysis) is unlikely to cause problems to the foetus. Trimethoprin is also unlikely to cause problems unless poor dietary folate intake or taking another folate antagonist eg antiepileptic.
- 11. We recommend clarithromycin as it has less side-effects than erythromycin, greater compliance as twice rather than four times daily & generic tablets are similar cost. If liquid formulation is needed, erythromycin may be preferable as clarithromycin syrup is twice the cost.

Ref: http://www.hpa.org.uk/web/HPAwebFile/HPAweb C/1194947333801



Infection	First Choice	BNF Adult	<b>Second Choice</b>	BNF Adult	Comments					
		Dosage /		Dosage/	ND In severe copes notion to move he					
		Length of Treatment		Length of Treatment	NB. In severe cases patients must be referred					
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	UPPER RESPIRATORY TRACT INFECTIONS: CONSIDER DELAYED ANTIBIOTIC PRESCRIPTIONS									
Pharyngitis/Throat	Penicillin V	1gr BD for 10	Clarithromycin	250-500mg	Majority of sore throats are viral and antibiotics					
Infections/tonsillitis		days.	(If Penicillin	BD for 5 days	are not indicated.					
		500mg QDS for	allergic)		Evidence suggests that antibiotics are clinically					
		10 days (when severe)			useful in less than 1% of cases. Note that all patients taking simvastatin should be					
		severe)			advised to stop taking whilst receiving a course of					
					clarithromycin.					
Acute Otitis Media (AOM)	Amoxicillin	40mg/kg/day in	Erythromycin	For 5 days	Optimise analgesia					
in CHILDREN		3 doses (max 3gr daily) for 5	(if penicillin allergic).		<b>Avoid antibiotics</b> as 60% are better in 24 hours					
		days	<2years	125mg QDS	without: they only reduce pain at 2 days <b>and do not prevent deafness</b>					
			2-8years 8-18years	250mg QDS 250-500mg	Consider 2 or 3-day delayed or immediate					
			o-royears	QDS	antibiotics for pain relief if:					
				QDb	•< 2yrs with bilateral AOM					
					• All ages with otorrhoea					
Acute Otitis Media	Amoxicillin	250mg-500mg	Clarithromycin	250-500mg	Evidence suggests that antibiotics are unlikely to					
		TDS for 5 days	(If Penicillin	BD for 5 days	be beneficial unless patient has systemic					
			allergic)		symptoms. E.g. fever, vomiting.					



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Infection	First Choice	BNF Adult Dosage / Length of Treatment	Second Choice	BNF Adult Dosage/ Length of Treatment	NB. In severe cases patients must be referred
Acute Otitis Externa	Locorten- Vioform (Clioquinol 1% / flumetasone pivalate 0.02%	2-3 drops BD for 7-10 days	Otosporine (polymyxin B sulph. 10,000units / neomycin sulph. 3,400 units / hydrocortisone 1%)	3 drops TDS for 7 days or insert soaked wick for 24- 48 hours and keep wet with soln.	EarCalm (acetic acid 2%) can be bought OTC  Cure rates similar at 7 days for topical acetic acid (EarCalm) or antibiotic +/- steroid  If cellulitis or disease extending outside ear canal, start oral antibiotics and refer.
Acute Rhinosinusitis	Amoxicillin  For persistent symptoms: Co-amoxiclav	500mg TDS, 1gr if severe for 7 days 625mg TDS for 7 days	Doxycycline	200mg stat / 100mg OD for 7 days	Avoid doxycycline in children under 12 and pregnant women  Avoid antibiotics as 80% resolve in 14 days without, and they only offer marginal benefit after 7 days  Use adequate analgesia  Consider 7-day delayed or immediate antibiotic when purulent nasal discharge In persistent infection use an agent with anti-
Influenza  For prophylaxis, see NICE. (NICE Influenza). Patients under 13 years see HPA Influenza link.	Oseltamivir unless pregnant	75mg BD for 5 days	Zanamivir (if there is resistance to oseltamivir)	10mg BD (2 inhalations by diskhaler) for 5 days	Annual vaccination is essential for all those at risk of influenza. For otherwise healthy adults antivirals not recommended. Treat 'at risk' patients, ONLY within 48 hours of onset & when influenza is circulating in the community or in a care home where influenza is likely.  At risk: pregnant (including up to two weeks postpartum), 65 years or over, chronic respiratory disease (including COPD and asthma) significant cardiovascular disease (not hypertension), immunocompromised, diabetes mellitus, chronic neurological, renal or liver disease.



Infection	First Choice	BNF Adult	<b>Second Choice</b>	BNF Adult	Comments			
		Dosage /		Dosage/				
		Length of		Length of	NB. In severe cases patients must be			
		Treatment		Treatment	referred			
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#### LOWER RESPIRATORY TRACT INFECTIONS

Note: Low doses of penicillins are more likely to select out resistance. Do **not** use quinolone (ciprofloxacin, ofloxacin) first line due to poor pneumococcal activity. Reserve all quinolones (including levofloxacin) for proven resistant organisms.

Acute cough, bronchitis	Amoxicillin	500mg TDS for 5 days	Doxycycline	200mg stat / 100mg OD for 5 days	Avoid doxycycline in children under 12 and pregnant women Antibiotic little benefit if no co-morbidity Symptom resolution can take 3 weeks. Consider 7-14 day delayed antibiotic with symptomatic advice
Acute Exacerbation of COPD	Doxycycline	200mg stat / 100mg OD for 5 days	Amoxicillin	500mg TDS for 5 days	Avoid doxycycline in children under 12 and pregnant women  Treat exacerbations promptly with antibiotics if purulent sputum <b>and</b> increased shortness of
	If resistance risk factors: Co-amoxiclav	625mg TDS for 5 days	Clarithromycin	500mg BD for 5 days	breath and/or increased sputum volume.  Risk factors for antibiotic resistant organisms include co-morbid disease, severe COPD, frequent exacerbations, antibiotics in last 3 months



Infection	First Choice	BNF Adult Dosage / Length of Treatment	Second Choice	BNF Adult Dosage/ Length of Treatment	NB. In severe cases patients must be referred
Community Acquired Pneumonia – treatment in the community	If CBR65=0 Amoxicillin	500mg-1g TDS for 7 days	Doxycycline  Clarithromycin	200mg stat / 100mg OD for 7 days 500mg BD for 7days	Use CRB65 score to help guide and review: Each scores 1: - Confusion (AMT<8); - Respiratory rate >30/min; - BP systolic <90 or diastolic ≤ 60; Score 0: suitable for home treatment;
	If CBR65=1 & AT HOME Doxycycline alone	200 stat / 100mg OD for 7-10 days	If CBR65=1 & AT HOME Amoxicillin AND Clarithromycin	500mg TDS for 7-10 days 500mg BD for 7-10 days	Score 1-2: hospital assessment or admission  Score 3-4: urgent hospital admission  Give immediate IM benzylpenicillin or amoxicillin 1G po if delayed admission/life threatening  Mycoplasma infection is rare in over 65s
Meningitis -Treatment HPA	Benzylpenici- llin	By IV or IM (if vein cannot be found) injection: Adult 1.2g; Infant 300mg; Child 1-9 years 600mg, 10 years and over as for adult.	Cefotaxime	By IV or IM (if vein cannot be found) injection: 1g for adults and children over 12, for children under 12: 50mg/kg	Transfer all patients to hospital immediately. Prophylaxis is recommended for household and kissing contacts of Meningococcal and Haemophilus infection.
-Prophylaxis http://www.hpa.org.uk/web/HPAwebFi le/HPAweb_C/1194947389261  See BNF for children for dosage	Ciprofloxacin	500mg stat	Rifampicin	600mg 12 hourly for 2 days	



Infection	First Choice	BNF Adult	<b>Second Choice</b>	BNF Adult	Comments
		Dosage /		Dosage/	
		Length of		Length of	NB. In severe cases patients must be
		Treatment		Treatment	referred

## URINARY TRACT INFECTIONS. Refer to **HPA UTI guidance for diagnosis information**

People > 65 years: do not treat asymptomatic bacteriuria; it is common but is not associated with increased morbidity

Catheter in situ: antibiotics will not eradicate asymptomatic bacteriuria; only treat if systemically unwell or pyelonephritis likely

Do not use prophylactic antibiotics for catheter changes unless history of catheter-change-associated UTI

Simple UTI in men and women (no fever or flank pain)	Trimethoprim	200mg BD for 3 days in women; for 7 days in men	Perform culture in all treatment failures.  Nitrofurantoin (Avoid in Renal impairment)	50mg QDS for 3 days for women; for 7 days in men	See UTI on pregnancy below.  Women with severe/≥ 3 symptoms: treat  Women with mild/ ≤ 2 symptoms: use dipstick to guide treatment. Nitrite & blood/leucocytes has 92% positive predictive value; -ve nitrite, leucocytes, and blood has a 76% NPV (Negative Predicted Value)  Men: Consider prostatitis & send pre-treatment MSU OR if symptoms mild/non-specific, use –ve nitrite and leucocytes to exclude UTI.
Recurrent UTI in non- pregnant women  ≥3 UTIs / year Advise to use cranberry products.	Nitrofurantoin or Trimethoprim	50–100 mg  100 mg  For both drugs, Post coital stat (off-label) Prophylaxis OD at night			Either drug can be given, Post-coital prophylaxis or standby antibiotic or Nightly: reduces UTIs but adverse effects.



Infection	First Choice	BNF Adult Dosage / Length of Treatment	Second Choice	BNF Adult Dosage/ Length of Treatment	NB. In severe cases patients must be referred
UTI in pregnancy	Lower UTI(Cystitis): Amoxicillin if susceptible.  Nitrofurantoin if susceptible, (Do not use in the last trimester)	500 mg TDS for 7 days 50mg QDS for 7 days	Cefalexin	500 mg BD for 7 days	Send MSU for culture & sensitivity and start empirical antibiotics Short-term use of nitrofurantoin in pregnancy is unlikely to cause problems to the foetus  Second line agents should be dependant upon cultures and sensitivities.
	Upper UTI(Pyelonephi tis): Cefalexin	1g bd for 14 days			
UTI in children  See BNF for children for dosage	Lower UTI (Cystitis): Trimethoprim or Nitrofurantoin if susceptible, or amoxicillin	Lower UTI 3 days	Lower UTI: Cefalexin	Lower UTI 3 days	Child <3 mths: refer urgently for assessment Child ≥ 3 months: use positive nitrite to start antibiotics.  Send pre-treatment MSU for all. Imaging: only refer if child <6 months or atypical UTI
	Upper UTI (Pyelonephitis): Co-amoxiclav	Upper UTI 7-10 days	Upper UTI: Cefixime	Upper UTI 7-10 days	



Infection	First Choice	BNF Adult	<b>Second Choice</b>	<b>BNF Adult</b>	Comments
		Dosage /		Dosage/	
		Length of		Length of	NB. In severe cases patients must be
		Treatment		Treatment	referred
Acute pyelonephritis	Ciprofloxacin,	500 mg BD for	Co-amoxiclav	500/125 mg	If admission not needed, send MSU for culture &
	if no risk of	7 days		TDS for 14	sensitivities and start antibiotics
	C.diff			days	If no response within 24 hours, admit
					Second line agents should be dependant upon cultures and sensitivities.
Acute Prostatitis	Ciprofloxacin	500mg BD for 28 days	Trimethoprim	200mg BD for 28 days	Send MSU for culture and start antibiotics
					4-wk course may prevent chronic prostatitis
					Quinolones achieve higher prostate levels
GASTRO-INTESTINAL TR					
<b>Eradication of </b> <i>Helicobacter</i>	PPI (use	BD			Eradication is beneficial in known DU, GU or
pylori	cheapest)				low grade MALToma
	PLUS	250 DD			
	Clarithromycin	250 mg BD			Consider test and treat in persistent
	(C)	with MTZ			uninvestigated dyspepsia
	AND	500mg BD with AM			Do not offer eradication for GORD
	Metronidazole	400 mg BD			Do not use clarithromycin or metronidazole if
	(MTZ)				used in the past year for any infection
	or amoxicillin	1g BD			
	(AM)	Treatment for 7			
		days.			DU/GU relapse: retest for <i>H. pylori</i> using breath
Symptomatic relapse					or stool test OR consider endoscopy for culture & susceptibility
					NUD: Do not retest, offer PPI or H <sub>2</sub> RA



Infection	First Choice	BNF Adult Dosage / Length of Treatment	Second Choice	BNF Adult Dosage/ Length of Treatment	NB. In severe cases patients must be referred
Infectious diarrhoea	Antibiotic thera	py not indicated u	ınless systemically	unwell. If system	a to exclude <i>E. coli</i> infection.  mically unwell and campylobacter suspected (e.g. 00 mg BD for 5–7 days if treated early.
Clostridium difficile	1 <sup>st</sup> /2 <sup>nd</sup> episodes metronidazole (MTZ) 3 <sup>rd</sup> episode/severe oral vancomycin	400 or 500 mg TDS for 10-14 days 125mg QDS for 10-14 days			Stop unnecessary antibiotics and/or PPIs 70% respond to MTZ in 5days; 92% in 14days  Admit if severe: T >38.5; WCC >15, rising creatinine or signs/symptoms of severe colitis
Traveller's diarrhoea	If standby treatm	ent appropriate giv	e: ciprofloxacin 50	0 mg twice a day	risk of severe illness with travellers' diarrhoea of for 3 days ( <b>private Rx</b> ). If quinolone resistance ablets QDS as prophylaxis or for 2 days treatment
Threadworms	>6 months: Mebendazole (off-label if <2yrs) 3-6 mths: Piperazine+sen na <3mths: 6 wks hygiene	100 mg stat repeat after 2 weeks  2.5ml spoonful stat, repeat after 2 weeks			Treat all 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



Infection	First Choice	<b>BNF Adult</b>	<b>Second Choice</b>	BNF Adult	Comments
		Dosage /		Dosage/	
		Length of		Length of	NB. In severe cases patients must be
		Treatment		Treatment	referred

## **GENITAL TRACT INFECTIONS**

People with risk factors should be screened for chlamydia, gonorrhoea, HIV, syphilis. Refer individual and partners to GUM service. Risk factors: < 25y, no condom use, recent (<12mth)/frequent change of partner, symptomatic partner Contact <u>UKTIS</u> (teratology information service) for information on foetal risks if patient is pregnant.

Contact or 115 (teratorogy information service) for information on foctal risks if patient is pregnant.								
Chlamydia trachomatis	Doxycycline Hyclate	100mg BD for 7	Azithromycin	1g as a single	Opportunistically screen all aged 15-25yrs			
/ urethritis		days		dose	Treat partners and refer to GUM service			
	Pregnant or breastfeeding: azithromycin or erythromycin or amoxicillin	1g (off-label use), stat 500 mg QDS, 7 days 500 mg TDS, 7			Pregnancy or breastfeeding: azithromycin is the most effective option Due to lower cure rate in pregnancy, test for cure 6 weeks after treatment Avoid Doxycycline in Pregnancy Sexual partner will require concurrent treatment.			
For suspected epididymitis in men	Doxycycline	days 100mg BD for 14days	Ofloxacin	400mg BD for 14 days				
Vaginal Candidiasis	Clotrimazole	500mg pessary stat or 10% cream stat or 100mg pessary for 6 days	Fluconazole (in resistant cases only)	150mg oral capsule stat	All topical and oral azoles give 75% cure  Pregnancy: avoid oral azole, use intravaginal for 6 days			
<b>Bacterial Vaginosis</b>	Metronidazole	400mg BD for 7 days or 2g as a single dose.	Metronidazole 0.75% vaginal gel	One 5g applicatorful at night for 5 nights	If pregnant, treat with metronidazole early in 2 <sup>nd</sup> trimester and avoid 2g dose. Oral metronidazole (MTZ) is as effective as topical treatment but is cheaper. Less relapse with 7 day than 2g stat at 4 wks  Pregnant / breastfeeding: avoid 2g stat. Treating partners does not reduce relapse.			



Infection	First Choice	BNF Adult Dosage / Length of Treatment	Second Choice	BNF Adult Dosage/ Length of Treatment	NB. In severe cases patients must be referred		
Trichomoniasis	Metronidazole	2g as a single dose or 400mg BD for 5 days		_	Avoid metronidazole in first trimester of pregnancy. Also avoid 2g dose in pregnancy. Sexual partner will require concurrent treatment.		
Pelvic Inflammatory Disease	Ceftriaxone + Doxycycline + Metronidazole	250mg IM stat + 100mg BD + 400mg BD for 14days	Ofloxacin + Metronidazole	400mg BD + 400mg BD for 14 days	Refer woman & contacts to GUM service Always culture for gonorrhoea & chlamydia 28% of gonorrhoea isolates now resistant to quinolones If gonorrhoea likely (partner has it, severe symptoms, sex abroad) avoid ofloxacin regimen.		
SKIN & SOFT TISSUE INFECTIONS							
Impetigo	Flucloxacillin	500mg QDS for 7 days	Clarithromycin (If Penicillin allergic) Topical fusidic	250-500mg BD for 7 days	For extensive, severe, or bullous impetigo, use oral antibiotics		
See BNF for children for dosage			acid.  MRSA only	days	Reserve topical antibiotics for very localised lesions to reduce the risk of resistance		
			mupirocin	TDS for 5 days	Reserve mupirocin for MRSA		
Eczema	If no 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, use treatment as in impetigo						
Cellulitis	Flucloxacillin	500mg QDS for 7 days.	Clarithromycin (If Penicillin allergic)	500mg BD for 7 days			
Facial	Co-amoxiclav	500/125mg TDS for 7 days.			microbiologist. If febrile and ill, admit for IV treatment. For all treatments, if slow response continue for a further 7 days		



Infection	First Choice	BNF Adult Dosage / Length of Treatment	Second Choice	BNF Adult Dosage/ Length of Treatment	NB. In severe cases patients must be referred			
Leg ulcers HPA	If active infection: flucloxacillin	500mg QDS for 7 days. If slow response continue for a further 7 days	Clarithromycin (If Penicillin allergic)	500mg BD for 7 days. If slow response continue for a further 7 days	Ulcers are always colonized. Antibiotics do not improve healing unless active infection. If active infection, send pre-treatment swab. Review antibiotics after culture results  Active infection if cellulitis/increased pain/pyrexia/purulent exudate/odour			
MRSA If active infection, MRSA confirmed by lab results, infection not severe and admission not required:	Doxycycline alone.	100 mg BD for 7 days	Clindamycin alone.	300–450 mg QDS for 7 days	For active MRSA infection: Use antibiotic sensitivities to guide treatment. If severe infection or no response to monotherapy after 24-48 hours, seek advice from microbiologist on combination therapy.			
PVL S. aureus HPA QRG		Panton-Valentine Leukocidin (PVL) is a toxin produced by 2% of <i>S. aureus</i> . Can rarely cause severe invasive infections in healthy people. Send swabs if recurrent boils/abscesses. At risk: close contact in communities or sport; poor hygiene						
Human/Animal Bites	Co-amoxiclav	375mg-625mg TDS for 7 days	Metronidazole PLUS doxycycline (cat/dog) or Metronidazole PLUS clarithromycin (human bite) AND review at	200-400 mg TDS 100 mg BD 200-400 mg TDS 250-500 mg BD.	Human: Thorough irrigation is important Assess risk of tetanus, HIV, hepatitis B&C Antibiotic prophylaxis is advised  Cat or dog: Assess risk of tetanus and rabies Give prophylaxis if cat bite/puncture wound; bite to hand, foot, face, joint, tendon, ligament; immunocompromised/diabetic/asplenic/ cirrhotic			
Scabies	Permethrin	5% cream, 2 applications 1 week apart	24&48hrs  If allergy: Malathion	All for 7 days 0.5% aqueous liquid. 2 applications 1 week apart	Treat all home & sexual contacts within 24h Treat whole body from ear/chin downwards and under nails. If under 2/elderly, also face/scalp			



Infection  Fungal infection – skin	First Choice Topical	BNF Adult Dosage / Length of Treatment BD, 1-2 weeks	Second Choice Topical	BNF Adult Dosage/ Length of Treatment	NB. In severe cases patients must be referred  Terbinafine is fungicidal, so treatment time
Tungar intection Skin	terbinafine	BB, 1 2 weeks	imidazole or (athlete's foot only): topical undecanoates (Mycota®)	BD for 1-2 weeks after healing (i.e. 4-6wks)	shorter than with fungistatic imidazoles If candida possible, use imidazole If intractable: send skin scrapings. If infection confirmed, use <i>oral</i> terbinafine/itraconazole  Scalp: discuss with specialist
Fungal infection –fingernail or toenail HPA and the Association of Medical Microbiologists. Fungal skin & nail infections: diagnosis & laboratory investigation. Quick reference guide for primary care <a href="http://www.hpa.org.uk/web/HPAwebFile/HPAwebC/1240294785726">http://www.hpa.org.uk/web/HPAwebFile/HPAwebC/1240294785726</a>	Superficial only Amorolfine 5% nail lacquer  Terbinafine	1-2x/weekly fingers: 6 months toes: 12 months 250 mg OD fingers: 6 – 12 weeks toes: 3 – 6 months	Itraconazole	200 mg BD, 7 days monthly fingers: 2 courses toes: 3 courses	Take nail clippings: start therapy only if infection is confirmed by laboratory Terbinafine is more effective than azoles Liver reactions rare with oral antifungals If candida or non-dermatophyte infection confirmed, use oral itraconazole For children, seek specialist advice.
Varicella zoster/ chicken pox IF started <24h of rash & >14y or severe pain or dense/oral rash or 2° household case or steroids or smoker consider acyclovir.	Aciclovir	800mg 5 times daily for 7 days		_	Pregnant/immunocompromised/neonate: seek urgent specialist advice Note: for patients with severe renal impairment (CKD 4-5) dose of aciclovir must be reduced
Herpes zoster/ Shingles Treat if >50 yrs and within 72 hrs of rash (PHN rare if <50yrs); or if active ophthalmic or Ramsey Hunt or eczema.	Aciclovir	800mg 5 times daily for 7 days	_	_	Note: for patients with severe renal impairment (CKD 4-5) dose of aciclovir must be reduced



Infection	First Choice	BNF Adult Dosage / Length of Treatment	Second Choice	BNF Adult Dosage/ Length of Treatment	NB. In severe cases patients must be referred
Cold sores	Cold sores resolv	ve after 7–10 days v	without treatment.	Topical antiviral	s applied prodomally reduce duration by 12-24hrs
EYE INFECTIONS	I				
Conjunctivitis	Chloramphenicol 0.5% drop  or 1% ointment	2 hourly for 2 days then 4 hourly (whilst awake) at night for 48 hours after resolution	fusidic acid 1% gel	BD for 48 hours after resolution	Most bacterial conjunctivitis is self-limiting. 65% resolve on placebo by day five Red eye with mucopurulent, not watery discharge. Usually unilateral but may spread Fusidic acid has less Gram-negative activity
	ed to be a definitive gu	ide to oral condition	ns. It is for GPs for	r the managemen	11 SDCEP Guidelines  In to f acute oral conditions pending being seen by a line advised to consult their dentist.
Mucosal ulceration and inflammation (simple gingivitis)	Simple saline mouthwash  Chlorhexidine 0.12-0.2% (Do not use within 30 mins of toothpaste)	½ tsp salt dissolved in glass warm water. Rinse mouth for 1 minute BD with 5 ml diluted with 5- 10 ml water.	Hydrogen peroxide 6%	Rinse mouth for 2 mins TDS with 15ml diluted in ½ glass warm water.	Always spit out after use. Use until lesions resolve or less pain allows oral hygiene.  Temporary pain and swelling relief can be attained with saline mouthwash Use antiseptic mouthwash: If more severe & pain limits oral hygiene to treat or prevent secondary infection. The primary cause for mucosal ulceration or inflammation (aphthous ulcers, oral lichen planus, herpes simplex infection, oral cancer) needs to be evaluated and treated.



Infection	First Choice	BNF Adult Dosage / Length of Treatment	Second Choice	BNF Adult Dosage/ Length of Treatment	NB. In severe cases patients must be referred
Acute necrotising ulcerative gingivitis	Metronidazole	400 mg TDS for 3 days		_	Commence metronidazole and refer to dentist for scaling and oral hygiene advice. Use in combination with antiseptic mouthwash (Chlorhexidine or hydrogen peroxide) if pain limits oral hygiene.
Pericoronitis	Amoxicillin	500 mg TDS for 3 days	Metronidazole	400 mg TDS for 3 days	Refer to dentist for irrigation & debridement. If persistent swelling or systemic symptoms use metronidazole. Use in combination with antiseptic mouthwash (chlorhexidine or hydrogen peroxide) if pain limits oral hygiene.
Dental abscess The empirical use of cephalosporins, co-amoxiclav, clarithromycin, and clindamycin do not offer any advantage for most dental patients and should only be used if no response to first line drugs when referral is the preferred option.	Amoxicillin	500 mg TDS for up to 5 days review at 3d	True penicillin allergy: Clarithromycin  or if	500 mg BD for up to 5 days review at 3d	Regular analgesia should be first option until a dentist can be seen for urgent drainage, as repeated courses of antibiotics for abscess are not appropriate. Repeated antibiotics alone, without drainage are ineffective in preventing spread of infection.  Antibiotics are recommended if there are signs of severe infection, systemic symptoms or high risk of complications.  Severe odontogenic infections; defined as cellulitis plus signs of sepsis, difficulty in
If spreading infection (lymph node involvement, or systemic giorga in favor or malaine) ADD	Severe infection add  Metronidazole	400 mg TDC for	Metronidazol  allergy	200ma ODS	swallowing, impending airway obstruction, Ludwigs angina. Refer urgently for admission to
signs ie fever or malaise) ADD metronidazole		400 mg TDS for 5 days	Clindamycin	300mg QDS for 5 days	protect airway, achieve surgical drainage and IV antibiotics.

## PROPHYLAXIS FOR DENTAL TREATMENT

Note: NICE guidelines 2008 - Antibacterial prophylaxis is not recommended for the prevention of endocarditis in patients undergoing dental procedures.