



Management of infection guidelines for primary and community services

Aims of these guidelines

- To encourage the rational and cost-effective use of antibiotics;
- · To minimise the emergence of bacterial resistance in the community
- To minimise infections caused by MRSA and C. difficile by avoiding use of quinolones, cephalosporins, co-amoxiclav and clindamycin;
- To provide a simple, best guess approach to the treatment of common infections.

Principles of treatment

- This guidance is based on the best available evidence but its application must be modified by professional judgement and any knowledge of previous culture results eg flucloxacillin is very rarely a good choice in patients colonised with MRSA. A dose and duration of treatment is suggested. In severe or recurrent cases consider a larger dose or longer course.
- 2. Prescribe an antibiotic only when there is likely to be a clear clinical benefit. Do not prescribe an antibiotic for viral sore throat, simple coughs and colds. Limit prescribing over the telephone to exceptional cases.
- 3. Consider for empiric treatment: Does the patient have a bacterial infection? Is an antibiotic treatment necessary? Have relevant specimens been collected? Is the patient allergic to any antibiotics?

- Do not use penicillin, amoxicillin, co-amoxiclav or flucloxacillin or piperacillin/tazobactam in patients who are allergic to penicillin. Previous anaphylaxis following penicillin: do not use any of the above or cephalosporins.
- Do not use tetracycline or doxycycline in children under 12 years, pregnant women or patients with a history of tetracycline allergy. Doxycyline can be given with food/dairy products but NOT with antacids.
- 6. Once microbiology results available: treat according to culture results and sensitivity.
- 7. Doses are for oral administration in the main and for adults unless otherwise stated. Please refer to BNF for further information.
- 8. Where a 'best guess' therapy has failed or special circumstances exist, microbiological advice can be obtained from: Dr Bendall, Dr Chakrabarti or Dr Evans or at the Department of Clinical Microbiology (during normal working hours) Tel: 01872 254900 or out of hours via RCHT Switchboard Tel: 01872 250000

Antimicrobial prescribing guide webpage:

http://intra.cornwall.nhs.uk/Intranet/AZServices/A/AntimicrobialPrescribing/Introduction.aspx

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Illness	Drug option	Dose	Duration	Comments
Upper respirate Consider delayed antibiot	ory tract infections			
Otitis media (child doses)	Amoxicillin	1-11 months: 125mg TDS increased if necessary up to 30 mg/kg every 8 hours 1-4 yrs: 250mg TDS increased if necessary up to 30 mg/kg every 8 hours. 5-11 yrs: 500mg TDS increased if necessary up to 30 mg/kg (max. 1 g) every 8 hours 12–17 years, 500 mg every 8 hours, in severe infection 1 g every 8 hours	Complications unlikely if temp <38.5°C or patient not vomiting. Ibuprofen paracetamol used as pain relief is adequate in most cases. Consider anti if not settled in 48-72 hours.	Complications unlikely if temp <38.5°C or patient not vomiting. Ibuprofen or paracetamol used as pain relief is adequate in most cases. Consider antibiotics
	Clarithromycin If allergic to penicillin.	Child 1 month-11 yrs - all doses twice daily: Body weight up to 8kg: 7.5mg/kg Body weight 8-11kg: 62.5mg Body weight 12-19kg: 125mg Body weight 20-29kg: 187.5mg Body weight 30-40kg: 250mg	3 days	
		Child 12-17 years: 250mg-500mg BD		
	Co-Amoxiclav for treatment failure.	<1yr old: 0.25mL/kg of 125/31mg TDS; 1-5 yrs: 5mL of 125/31mg TDS; 6-11 yrs: 5mL of 250/62mg TDS; 12-17 yrs: 375mg TDS (increase to 625mg TDS in severe infection). Double dose in severe infection	7 days	
Acute diffuse Otitis externa	Acetic acid 2% ear spray (EarCalm)	One spray TDS (maximum one spray every two to three hours)	7 days maximum	Oral antibiotics are NOT recommended for otitis externa; complications need specialist advice, eg facial swelling/cellulitis. If there is obstruction of
	flumetasone—clioquinol (Locorten—Vioform) ear drops, Otomize ear spray Aur Aur Aur thei	the ear canal, consider need for microsuction (may need referral to ENT/ Aural care). If pain cannot be controlled consider early urgent referral to ENT/ Aural care service. Patients prescribed antibiotic/steroid drops can expect their symptoms to last for approximately six days after treatment has begun. If they have symptoms beyond the first week they should continue the drops		
	Use of ciprofloxacin eye drops for otitis externa is unlicensed but may be used with specialist ENT input.			until their symptoms beyond the first week they should continue the drops until their symptoms resolve (and possibly for a few days after) for a maximum of a further seven days and consideration should be given to referral for microsuction. Patients with symptoms beyond two weeks should be considered treatment failures and alternative management initiated.
Influenza treatment	Refer to Public Health England: w	ww.hpa.org.uk/Topics/InfectiousDiseases/Infectio	nsAZ/SeasonalInfluenz	al
Pharyngitis / sore throat /	Penicillin V	500mg QDS	10 days	Avoid antibiotics as 90% will resolve in 7 days without and pain will only be
tonsillitis	Clarithromycin If allergic to penicillin.	500mg BD	5 days	Avoid antibiotics as 90% will resolve in 7 days without and pain will only be reduced by 16 hours with antibiotics. The poor sensitivity and specificity of the previous sore throat grading criteria (CENTOR) have led to these being replaced with the FeverPAIN criteria: • Fever in the previous 24 hours (measured or subjective) • Purulence on the tonsillar bed • Attending promptly, i.e. within 3 days of symptom onset • Inflamed tonsils • No cough/coryza Score 0-1: 13-18% streptococci, no antibiotics indicated; 2-3: 34-40% likelihood of streptococci, use 3 day back-up prescription; 4 or more: 62-65% likelihood of streptococci, use immediate antibiotic treatment if severe or 48h back-up prescription Online tool: https://ctu1.phc.ox.ac.uk/feverpain/index.php

NHS Kernow - Management of infection guidelines for primary and community services - January 2017 1st line = Green | 2nd line = Blue

Illness	Drug option	Dose	Duration	Comments
Sinusitis acute or chronic	Doxycycline	200mg stat then 100mg once daily	7 days	Many cases are viral and antibiotics are generally not required. Reserve for
	OR Amoxicillin	500mg TDS (1g TDS if severe)	7 days	severe or symptoms >10 days.
	OR Penicillin V	500mg QDS	7 days	
	Co-Amoxiclav for treatment failure.	625mg TDS	7 days	
	OR Clarithromycin if allergic to penicillin	500mg BD	7 days	
Quinolones eg Ciprofloxa for example in patients wi	th cystic fibrosis or bronchiectasi	S.		umococci. However, they do have use in PROVEN pseudomonal infections –
Acute bronchitis	Doxycycline	200mg stat then 100mg once daily	5 days	Antibiotics provide little benefit if NO co-morbidity. Consider 7 day delayed antibiotics with advice. Symptom resolution can take 3 weeks.
	OR Amoxicillin	500mg TDS	5 days	Consider immediate antibiotics if >80yr and ONE of: hospitalisation in past year, oral steroids, diabetic, congestive heart failure OR >65yrs with 2 of above. Consider CRP test if antibiotic being considered. If CRP<20mg/L no antibiotics, 20-100mg/L delayed antibiotics, CRP>100mg/L immediate antibiotics.
Acute exacerbation of	Doxycyline	200mg stat then 100mg once daily	5 days	Many cases are viral – consider whether antibiotics are needed. Antibiotics not
COPD	OR Amoxicillin	500mg TDS	5 days	indicated in absence of purulent/mucopurulent sputum. Use of rotational antibiotics in COPD is very rarely indicated. Standby
	OR Clarithromycin	500mg BD	5 days	antibiotics may be offered to patients who suffer frequent exacerbations with severe COPD who have been counselled on how to use these 'as needed' antibiotics (doxycycline or amoxicillin or clarithromycin).
Bronchiectasis exacerbation	High dose antibiotics, as advised b purulence.	y the specialist, generally for 2- 4 weeks and taken u	ntil the patient's impro	vement has plateaued as measured by improvement in sputum volume and
Community-acquired pneumonia	CAP treatment in the community: Consider an initial dose of IV benzylpenicillin.			Use CRB65 score to guide mortality risk and place of care. Each CRB65 parameter scores 1: Confusion-Abbreviated Mental test (AMT) score <8; Respiratory rate>30/min; BP systolic<90 or diastolic<60; Age>65. Score 3-4: urgent hospital admission; score 1-2 intermediate risk: consider hospital
	For non-severe CAP: Amoxicillin	500mg TDS	5 days	assessment; score 0 low risk: consider home based care. Always give safety- net advice and likely duration of symptoms.
	OR Doxycycline	200 mg stat then 100 mg once daily	5 days	net advice and likely duration of symptoms.
	OR Clarithromycin	500mg BD	5 days	Mycoplasma is rare in over 65s. Consider legionella in travellers. Do not use doxycycline in children or pregnant women.
Severe CAP in a community hospital setting	Piperacillin/tazobactam PLUS Clarithromycin	4.5 g IV TDS 500 mg BD orally or by infusion if oral route not available.	7 days	Switch to oral treatment when appropriate, as for non-severe CAP.
	Levofloxacin IV for penicillin allergy.	500mg	12 hourly	
	THEN Levofloxacin orally	500mg once daily	7 days	

Illness	Drug option	Dose	Duration	Comments
Hospital acquired pneumonia in a community	Non severe: Amoxicillin PLUS Doxycycline	500mg TDS 200mg stat then 100mg once daily orally	5 days	
hospital setting	Severe: Piperacillin/tazobactam	4.5 g IV TDS and then treat according to sensitivities	7 days	
	ADD Clarithromycin where legionella is suspected	500 mg BD orally or by infusion if oral route not available and contact microbiology.		
	Levofloxacin IV for penicillin allergy.	500mg	12 hourly	
	THEN Levofloxacin orally	500mg once daily.	7 days	
Aspiration pneumonia in a community hospital setting	Amoxicillin - community acquired non- severe aspiration pneumonia PLUS Metronidazole	500mg TDS 400mg TDS	5 days	Contact Microbiology if MRSA status is positive.
	Metronidazole If history of penicillin allergy PLUS EITHER Clarithromycin OR Doxycycline	400mg TDS 500mg BD 200mg stat then 100mg daily	5 days	
	Piperacillin/tazobactam - hospital acquired severe aspiration pneumonia.	4.5 g IV TDS	5 days	
Meningitis				
Suspected meningococcal disease	IV Benzylpenicillin	Adults and children 10 yrs and over: 1200 mg. 1 - 9 yr: 600 mg <1 yr: 300 mg		Transfer all patients to hospital immediately. Only give benzylpenicillin / cefotaxime IF time before admission and non-blanching rash.
	OR IM if a vein cannot be found			1
	Cefotaxime if history of penicillin allergy (not anaphylaxis)	1g IV/IM stat < 12 years 50mg/kg IV/IM stat		
Prevention of secondary cases of meningitis		alth Protection Unit: 9 am – 5 pm: 0300 3038162 rse for the Health Protection Unit via RCHT swit		00
associated with increased increasing ALWAYS safety	common, therefore ONLY use if culture morbidity. In the presence of a cathete net and consider risks for resistance.	r, antibiotics will not eradicate bacteriuria; o		Imptomatic bacteriuria; it occurs in 25% of women and 10% of men and is not ally unwell or pyelonephritis likely. As E coli bacteraemia in the community is
Uncomplicated UTI ie no fever or flank pain	Nitrofurantoin (modified-release capsules) if GFR >45ml/min. If GFR 30-45ml/min: only use if resistance testing indicates no alternative.	100mg BD Suspension – expensive +++. Capsules CANNOT be opened and the tablets should NOT be crushed as they are irritant.	Females - 3 days Males - 7 days	Signs and symptoms of UTI: dysuria, urgency, frequency, polyuria, suprapubic tenderness, fever, flank or back pain. Treat women with severe/or ≥3 symptoms. Do not treat women with mild/or ≤2 symptoms AND urine NOT cloudy (97% negative predictive value) unless other risk factors for infection. If cloudy urine use dipstick to guide treatment - nitrite plus blood or leucocytes has 92% positive
	Trimethoprim if low risk of resistance - see comments box.	200mg BD Suspension available.		predictive value. Consider a back-up/delayed antibiotic option where appropriate. Risk factors for increased resistance include: care home resident, recurrent UTI, hospitalisation>7 days in the last 6 months, unresolving urinary symptoms, recent travel to a country with increased antimicrobial resistance (outside
	Pivmecillinam (type of penicillin – do NOT use if history of penicillin allergy)	200mg TDS Unlicensed use: manufacturers advise tablets can be crushed and dissolved in a neutral (eg water or tea not fruit juice) rather than acidic liquid but may have a bitter taste.		Northern Europe & Australasia), previous UTI known to be resistant to trimethoprim, cephalosporins or quinolones.

Illness	Drug option	Dose	Duration	Comments	
Uncomplicated UTI ie no fever or flank pain continued	Treatment failure: depends on sus report indicates susceptibility. Avai	ceptibility of organism isolated. For infections due to lable from community pharmacy. Prescibe as MONU	resistant coliforms including RIL.	ESBL, oral options are very limited. Fosfomycin is an option where sensitivity	
Acute pyelonephritis	Ciprofloxacin	500mg BD	7 days	Ciprofloxacin until sensitivity results are available, then treat according to sensitivity results. If no organism isolated continue Ciprofloxacin. If no response within 24 hrs consider referral.	
Catheter associated bacteriuria	If asymptomatic, no antibiotics. Do	n't swab catheters.			
Lower UTI in patients with an indwelling catheter	recommended to diagnose UTI. Tr reduced urine output), admit to hos antibiotic and arrange to renew cal upper UTI (acute pyelonephritis). (eatment may be indicated if there are signs of local is spital as intravenous antibiotics may be required. Chatheter if it has been in place for more than a week. The Ditherwise, treat for lower UTI: Relieve symptoms with re, empirically prescribe trimethoprim or pivmecilling.	nfection eg suprapubic pain. eck that the catheter is corre he need for an indwelling cat h paracetamol or ibuprofen.	an indwelling urinary catheter, and urinalysis of catheterised patients is NOT If symptoms are severe (eg confusion, tachypnoea, tachycardia, hypotension, ctly positioned and not blocked. Where there is symptomatic UTI, commence heter should be reviewed. If there is fever, or loin pain, or both, manage as Send urine for culture and microscopy before starting antibiotic treatment. Ifter 48 hours (or according to the clinical situation) to check response to	
Prophylaxis for recurrent UTI in women	 Three or more in 12 months; positive MSU or dipstick with positive history. Long term antibiotics are associated with various risks. If abdominal ultrasound abnormal refer to urology. If abdominal ultrasound normal, offer lifestyle advice, consider topical oestrogens for atrophic vaginitis. Consider use of standby antibiotics which may reduce recurrence. Least favoured option is to offer 6 month trial of low-dose continuous antibiotic treatment: Trimethoprim 100 mg even night, or Nitrofurantoin (immediate-release capsules) 50–100 mg every night. Stop after 6 months and evaluate. For breakthrough infection, change antibiotics according to sensitivities, treat for 7 days maximum (7 days in men, 5 days in women) and then continue prophylaxis. 				
Staph aureus in urine	, ,	not a urinary pathogen unless renal or prostatic abso s bacteraemia or endocarditis. Discuss with Clinical		s usually present in urine as a contaminant or colonising a catheter. It is rarely hought necessary.	
UTI in pregnancy	Nitrofurantoin MR	100 mg BD		Send MSU for culture. Avoid Nitrofurantoin in third trimester. Avoid	
	Trimethoprim if Nitrofurantoin unsuitable	200 mg BD	7 days	Trimethoprim in first trimester.	
	Cefalexin	500mg BD			
Gastro-intestin	al tract infections				
Acute Cholecystitis	Co-amoxiclav for mild cases.	625mg TDS	10 days		
	Ciprofloxacin - if penicillin allergic AND Metronidazole	500mg BD 400mg TDS	10 days		
Clostridium difficile	days switch to oral Vancomycin 12	min>25g/L): oral Metronidazole 400mg TDS for 14 d 5mg QDS for 14 days. Refer to hospital if diarrhoea wing symptoms are present: fever, dehydration, seps	is still present after toxin	Stop current antibiotics and PPIs if possible.	
	Severe: Underlying inflammatory balbumin<25g/L, temperature >38.5	owel disease or passing >8 stools in 24 hours with V o'C refer to hospital.			
	Recurrent: Discuss with Microbiolo	gy.]	
Diverticulitis	Co-amoxiclav	625mg TDS		Prescribe paracetamol for pain. Recommend clear liquids only. Gradually	
	OR Ciprofloxacin if penicillin allergic AND Metronidazole	500mg BD 400mg TDS	at least 7 days	reintroduce solid food as symptoms improve over 2–3 days. Review within 48 hours, or sooner if symptoms deteriorate. Arrange admission if symptoms persist or deteriorate.	

Illness	Drug option	Dose	Duration	Comments			
Eradication of Helicobacter pylori	Omeprazole PLUS Clarithromycin PLUS Amoxicillin	20mg BD capsules 500mg BD 1g BD		Eradication is beneficial in DU, GU, but NOT in GORD. In non-ulcer dyspepsia, 8% of patients benefit. Triple treatment attains >85% eradication. Do not use clarithromycin or metronidazole if used in the past year for any infection.			
	If penicillin allergic, Omeprazole PLUS Clarithromycin PLUS Metronidazole	20mg BD capsules 250mg BD 400mg BD		When managing symptomatic relapse in DU/GU: Retest (using breath test) for Helicobacter if symptomatic.			
	For those who still have symptoms after first-line eradication: Omeprazole PLUS Amoxicillin PLUS EITHER Clarithromycin OR Metronidazole - whichever was not used first-line.	20mg BD capsules 1g BD 500mg BD 400mg BD	7 days	When managing symptomatic relapse in non-ulcer dyspepsia: Do not retes treat as functional dyspepsia. Seek advice from Gastroenterology if eradication of H pylori is not successful with second-line treatment.			
Gastroenteritis	Antibiotic therapy is not usually indicated. Campylobacter infections form 12% of GP consultations for gastroenteritis. Antibiotics should be reserved for pregnant, immuno-suppressed, non responsive or unwell patients. All suspected cases of food poisoning should be notified to the local authority. Seek advice on exclusion of patients from work from the Health Protection Unit: 0300 3038162.						
Giardiasis	Metronidazole	2g daily	3 days	Avoid using the 2g dose in pregnancy.			
	In pregnancy: Metronidazole	400mg TDS	5 days				
Roundworm	Mebendazole	100mg BD	3 days				
Threadworm	Mebendazole	Child 6 months—18 years 100 mg	Single dose	Treat all household contacts at the same time PLUS advise hygiene measures. If reinfection occurs, second dose may be needed after 2 weeks (off-label if <2 years).			

- 1. For sexually transmitted infections treated with antibiotics, the patient should be advised to abstain from sexual intercourse until they and their partner(s) have completed the treatment. GPs should consider referral for treatment, follow-up and contact tracing.
- 2. In cases of recurrent thrush in males consider treating partner(s). There is no indication to treat male partners of women with recurrent candidal infection. Please discuss all cases of proven or suspected gonorrhoea with GU medicine due to increasing antibiotic resistance.

Acute epididymo-orchitis	Ofloxacin	200mg BD	14 days	Check sexual history. Send both first pass urine for CT and MSU for UTI. It gonorrhoea suspected [for example a significant urethral discharge], refer to GU.
Acute prostatitis	Ciprofloxacin	500mg BD	One month then review	Send MSU for culture and start antibiotic.
	Trimethoprim if sensitive	200mg BD	One month then review	
Bacterial vaginosis	Metronidazole	400mg BD	7 days	Pregnant patients should not use an applicator for the local treatments.
	OR Metronidazole	0.75% vaginal gel 5g applicatorful at night	5 days	
	OR Clindamycin	2% cream 5g applicatorful at night	7 days	
Candidiasis	Fluconazole (except in pregnancy) AND clotrimazole	150mg stat orally 1% cream (with or without hydrocortisone) if co- existing vulvitis.		Persistent cases require longer courses (see BASHH guidelines www bashh.org). Other oral therapy options may be used instead of topical therapy eg
	Clotrimazole	10% 5g vaginal cream as stat dose		Itraconazole 200mg orally as two doses eight hours apart, BUT avoid oral
	OR Clotrimazole	500mg pessary pv as stat dose		therapy if risk of pregnancy.

Illness	Drug option	Dose	Duration	Comments	
Chlamydia trachomatis	Doxycycline	100mg BD	7 days	Tetracyclines are contra-indicated in pregnancy. Ideally, refer to GU Clinic	
	Azithromycin	1g stat		for treatment, follow up and contact tracing. A test of cure six weeks after treatment is recommended in pregnancy, where compliance is suspect, if	
	Erythromycin EC - If pregnancy risk	500mg BD	14 days	symptoms persist or if 'contact tracing' was not felt to have been reliable. It is also recommended if the infection was in a non-genital site or if using	
	Doxycycline - rectal infection.	100mg BD		Erythromycin or Azithromycin.	
			7 days	Azithromycin is not licensed for use in pregnancy in UK, but is widely used after discussion of options and risk/benefit with the patient.	
				Consider possibility of LGV if Chlamydia positive proctitis - discuss with GU medicine). A test of cure is recommended for non-genital infection.	
Chronic genital herpes simplex		ng and seldom need drug treatment, but if needed to r initiated treatment so antiviral medication can be start		ither episodic antiviral treatment if attacks are infrequent (eg less than six	
	Aciclovir for self initiated treatment	400mg TDS	5 days		
	Suppressive antiviral treatment (eg oral aciclovir 400 mg BD for 6–12 months) if attacks are frequent (eg six or more attacks per year), causing psychological distress, or social/relationship effects: After 6-12 months, stop treatment for a trial period. If attacks are still considered problematic, restart suppressive treatment. If attacks are not considered problematic (off future attacks with episodic antiviral treatment (if needed). If the person has breakthrough attacks on suppressive treatment at any stage seek specialist advice.				
Pelvic Inflammatory Disease	Metronidazole PLUS Doxycycline - when pregnancy has been excluded	400mg BD 100mg BD	14 days - reduce to 7 days if nausea is a problem	Chlamydia is the commonest cause, but consider possibility of N.gonorrhoeae as well.	
	Ceftriaxone - if N.gonorrheae suspected: WITH Azithromycin PLUS Metronidazole PLUS Doxycycline	500mg diluted in 2ml of 1% lidocaine given by deep IM injection STAT single oral dose of 1g to be taken simultaneously 400mg BD 100mg BD	14 days - reduce to 7 days if nausea is a problem	Please discuss all suspected gonococcal PID with GU medicine. If risk of pregnancy, seek specialist advice.	
Postnatal infections	Co-amoxiclav	625mg TDS		Seek specialist advice from Obstetrics if patients have significant	
(e.g. endometritis, postepisiotomy infections of the perineum)	OR Cefalexin if allergic to penicillin PLUS Metronidazole	500mg BD 400mg TDS	5 to 7 days	systemic symptoms or if symptoms fail to improve after 7 days. Consider endometritis if there is new/ changed and offensive discharge within 10 days post-partum. Co-amoxiclav, cefalexin and metronidazole are all present in breast milk but are safe to use in breast-feeding mothers. Breast-feed infants of mothers taking these antibiotics should be observed for diarrhoea or rashes.	
Primary genital herpes simplex	Aciclovir	400mg TDS	5-10 days	Take viral swab prior to commencing therapy otherwise opportunity for diagnosis will be lost.	
		Consider increasing to 400mg five times a day in the immunocompromised or if absorption impaired	5-10 days	Adjunct treatment: Saline bathing, regular analgesia, lidocaine 5% ointment prn OR Hydrogel dressing, antifungals	
Trichomoniasis	Metronidazole	400mg BD	7 days	Treat partners simultaneously. Refer to GUM for contact tracing.	
	OR Metronidazole	2g as single stat dose		Pregnant/breastfeeding patients should avoid the 2g stat dose.	

Illness	Drug option	Dose	Duration	Comments	
Skin / soft tiss	ue infections		_		
Animal / human bites	Co-Amoxiclav	625 mg TDS		Thorough irrigation is important. Assess, as appropriate, risk of tetanus,	
	Doxycycline if allergic to penicillin PLUS Metronidazole	200mg stat THEN 100mg OD 400mg TDS	7 days	HIV, hepatitis B&C, rabies. Prophylaxis should be given after bites.	
Cellulitis	Flucloxacillin	500mg QDS	7 days - If slow response	The ERON classification system can help guide admission and treatment	
	OR Clarithromycin	500mg BD	continue for a further 7 days	decisions. Class I: patient afebrile and healthy other than cellulitis, use oral	
	Co-Amoxiclav for Facial cellulitis	625mg TDS	10 to 14 days	flucloxacillin Class II: febrile & ill, or comorbidity, seek advice from Acute Care at Home Team to prevent hospital admission or admit for IV treatment if appropriate Class III: toxic appearance – admit. If river or sea exposure, discuss with Microbiology. If associated with MRSA, follow MRSA advice below as flucloxacillin is not effective against MRSA. In penicillin allergy, or if not improving contact Microbiology.	
Cellulitis (managed in	Flucloxacillin	1g IV 6 hourly		If not improving, discuss with Microbiology.	
hospital)	THEN Flucloxacillin orally	500mg QDS		1	
	Clarithromycin IV for penicillin allergy	500mg BD	7-10 days with clinical review		
	THEN Clarithromycin orally	500mg BD			
	Teicoplanin for MRSA/infected cannula sites:	400mg IV BD	3 doses		
	THEN	400mg once a day	10-14 days		
Dermatophyte infection of nails	Terbinafine	250mg daily	6-12 weeks or for 3-6 months for toenails	Take nail clippings. Drug therapy should only be initiated if infection is confirmed by microscopy and / or culture and treatment is actually required.	
	Pulsed or continuous Itraconazole	may also be effective.		Seek specialist advice for persistent dermatophyte infections or children with nail infections. Terbinafine persists in nail keratin for up to 9 months after the end of treatment. Therefore benefits may continue after the course is completed.	
Dermatophyte infection of	Terbinafine (topical 1%)	Applied daily/twice daily	1 week	Take skin scrapings for culture. Treatment: 1 week topical terbinafine is as	
the skin	Topical undecenoic acid	Applied daily/twice daily	4-6 weeks	effective as 4 weeks topical azole. If intractable consider oral itraconazole. Discuss scalp infections with specialist.	
	OR azole 1%		4-6 weeks	Discuss scalp infections with specialist.	
Impetigo	Flucloxacillin	500mg QDS	7 daya	Oral therapy is preferred.	
	OR Clarithromycin	500mg BD	7 days		
	Fusidic acid for minor, very localised infections only	Topically QDS	5 days		
Infective lactation mastitis	If there is an infected nipple fissure	e or symptoms have not improved after 12–24 ho	ours despite effective milk remove	al:	
	Flucloxacillin	500 mg QDS			
	OR erythromycin if allergic to penicillin	250–500 mg QDS	10–14 days		
	OR clarithromycin	500 mg twice a day			
Leg ulcers	Routine swabs are not recommended. Antibiotics are only indicated if cellulitis or systemic symptoms are present.				

Illness	Drug option	Dose	Duration	Comments
MRSA	Minor, localised, not systemic (maj	ority of cases will be sensitive to Doxycycline hence	If in doubt as to severity of infection, contact Clinical Microbiology	
	Doxycycline	100mg BD		
	OR Clarithromycin if reported as sensitive.	500mg BD	7-10 days	
MRSA Colonisation	Mupirocin nasal ointment PLUS Chlorhexidine 4% (Hibiscrub) PLUS Chlorhexidine 4% (Hibiscrub)	Apply 8 hourly Washes daily As a shampoo	5 days and use shampoo twice during the 5 days	For patients unable to use chlorhexidine, Octenisan can be used instead for 5 days (ie daily wash and as a shampoo on two occasions). For colonised large wounds, contact Tissue Viability. MRSA infection where patient has signs of sepsis, fever, raised white cell count and CRP: refer to hospital.
Panton-Valentine Leukocidin (PVL) staphylococcal infection	Or recurrent skin infection in young Quick Reference Guide: https://www	g adults. Seek Microbiology advice if required and/o ww.gov.uk/government/uploads/system/uploads/attac	r refer to pages 39 and 40 for chment_data/file/330788/PVL	the diagnosis and management of PVL Staphylococcus aureus infections _guidance_in_primary_care_quick_reference_guide.pdf
Varicella & Herpes zoster	Aciclovir	800mg 5 times a day		Treatment is only effective if started at onset of infection (ie within 2 days
	OR Valaciclovir	1g TDS	7 days	of onset of rash). See BNF/BNF for children for doses for children and immunocompromised patients.
Eye infections				
Acute infective	Chloramphenicol eye drops 0.5%	Every 2 hours for 48 hours then every 4 hours	5 days	Most people with infective conjunctivitis get better, without treatment, within 1–2 weeks and for most people, use of a topical ocular antibiotic makes little difference to recovery. Only when symptoms are severe or likely to become severe, providing serious causes of a red eye can be confidently
conjunctivitis	OR Chloramphenicol 1% eye ointment	3-4 times daily		
	Fusidic acid 1% eye drops (expensive and has less Gram- negative activity)	BD	Continued for 48 hours after eye returns to normal	excluded OR if schools and childcare organisations require treatment before allowing a child to return consider offering a topical ocular antibiotic.
Dental infectio	ns			
Acute-dento-alveolar	Amoxicillin	500mg TDS		The initial assessment of an acute dento-alveolar infection is important.
infection	OR Penicillin V	500mg QDS	up to 5 days - review at 3 days	Referral, rather than treatment, may be necessary if: there are indications of septicaemia, spreading cellulitis, swellings involving the floor of the mouth
	clarithromycin if penicillin allergic	500mg BD	- C days	that may compromise the airway, difficulty in swallowing, dehydration,
	ADD Metronidazole if a predominately anaerobic infection is suspected	400mg TDS	3 days	failure to respond to treatment. Antibiotics are an adjunct to the treatment of acute dento-alveolar infections. Patients should be reviewed after 2-3 days. Discontinue antibiotic if temperature normal and swelling resolving. Failure of resolution may require referral for specialist advice.
Acute necrotising ulcerative gingivitis	Metronidazole	400mg TDS	3 days	Swollen ulcerated gums, pain on chewing and swallowing +/- pyrexia usually with foul smelling breath. Active treatment including debridement needs to be delayed until the acute phase has passed. Refer to GDP/ emergency dentist for advice on debridement and irrigation and oral hygiene.
Acute pericoronitis	Metronidazole If there is pyrexia or gross local soft tissue swelling or trismus present	400mg TDS	3 days	Pain and swelling localized to the partially erupted third molar teeth, most commonly lower teeth but can affect upper third molars as well. Refer to GDP/emergency dentist as debridement and irrigation or relief of
	OR Amoxicillin	500mg TDS	5 days	occlusion may be needed. Chlorhexidine 0.2% mouthwash 300ml is useful as a local measure.

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