





MANAGEMENT OF INFECTION GUIDANCE FOR PRIMARY CARE Fylde and Wyre and Blackpool CCGs January 2017

Aims

To provide a simple, 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 judgement should be used and patients should be involved in the decision.
- 2. It is important to initiate antibiotics as soon as possible in severe infection.
- 3. Where an empirical therapy has failed or special circumstances exist, microbiological advice can be obtained via the BVH switchboard 01253 300000
- 4. Prescribe an antibiotic only when there is likely to be a clear clinical benefit.
- 5. Consider a 'No' or 'Back-up/Delayed', antibiotic strategy for acute self-limiting upper respiratory tract infections and mild UTI symptoms.
- 6. Limit prescribing over the telephone to exceptional cases
- 7. 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
- 8. 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.
- 9. Child doses are provided when appropriate and can be accessed through the [⊚] symbol
- 10. Please refer to BNF for further dosing and interaction information (e.g. interaction between macrolides and statins) if needed and please check for hypersensitivity
- 11. Lower threshold for antibiotics in immunocompromised or those with multiple morbidities; culture and seek advice.
- 12. Avoid widespread use of topical antibiotics (especially those agents also available as systemic preparations, e.g. fusidic acid).
- 13. In <u>pregnancy</u> take specimens to inform treatment; where possible avoid <u>tetracyclines</u>, <u>aminoglycosides</u>, <u>quinolones</u>, <u>high</u> <u>dose metronidazole</u> (2 g) unless benefit out ways risks. Short-term use of <u>nitrofurantoin</u> (at term, theoretical risk of neonatal haemolysis) is not expected to cause foetal problems. <u>Trimethoprim</u> is also unlikely to cause problems unless poor dietary folate intake or taking another folate antagonist eg antiepileptic.
- 14. The doxycycline dose of 100mg bd is a local decision based on effectiveness in all population groups. (The bd dose is in MRSA guidance. Using a standard dose provides an effective dose for all groups, irrespective of risk and reduces the risk of resistance.)

This guidance should not be used in isolation; it should be supported with patient information about back-up/delayed antibiotics, infection severity and usual duration, clinical staff education, and audits. Materials are available on the RCGP TARGET website. Where a 'best guess' therapy has failed or special circumstances exist, microbiological advice can be obtained via the BTH switchboard: 01253 300000

Summary tables – Infections in primary care

			ADULT DOSE	
ILLNESS	COMMENTS	DRUG	⊕ = childrens' dose (Ctrl +click on icon to follow link)	DURATION OF TREATMENT
UPPER RESPI	RATORY TRACT INFECTIONS			
Influenza treatment PHE Influenza For prophylaxis see: NICE Influenza	Annual vaccination is essential for all those at risk of Treat 'at risk' patients, when influenza is circulating lab report) or in a care home where influenza is likely over, chronic respiratory disease (including COPD an immunocompromised, diabetes mellitus, chronic net treatment with oseltamivir 75mg bd. If resistance to inhalations by diskhaler for up to 10 days) and seek a years or in severe immunosuppression (and seek adv	in the community and ideally y. At risk: pregnant (including d asthma), significant cardiov urological, renal or liver disea oseltamivir or severe immur advice. See PHE Influenza gui	y within 48 hours of onset (or graph to two weeks post-part wascular disease (not hyperiase, morbid obesity (BMI>= nosuppression, use zanamiv	do not wait for cum), 65 years or cension), 40). Use 5 days ir 10mg BD (2
Acute Sore Throat CKS FeverPAIN	Avoid antibiotics as 90% resolve in 7 days without, and pain only reduced by 16 hours. Use FeverPAIN Score: Fever in last 24h, Purulence, Attend rapidly under 3d, severely Inflamed tonsils, No cough or coryza). Score 0-1: 13-18% streptococci, use NO antibiotic strategy; 2-3: 34-40% streptococci, use 3 day back-up antibiotic; >4: 62-65% streptococci, use immediate antibiotic if severe, or 48hr short backup prescription. Always share self-care advice & safety net. Antibiotics to prevent Quinsy NNT >4000. Antibiotics to prevent Otitis media NNT 200. 10d penicillin lower relapse vs 7d in <18yrs.	Phenoxymethylpenicillin Penicillin Allergy: Clarithromycin	500 mg QDS © or 1G BD (QDS when severe)	10 days 5 days
Acute Otitis Media CKS OM NICE feverish children	Optimise analgesia and target antibiotics AOM resolves in 60% in 24 h without antibiotics, which only reduce pain at 2 days (NNT15) and does not prevent deafness. Consider 2 or 3-day delayed or immediate antibiotics for pain relief if: <2 years AND bilateral AOM (NNT4) or bulging membrane and ≥ 4 marked symptoms All ages with otorrhoea NNT3	Amoxicillin	Child doses Neonate 7-28 days 30mg/kg TDS 1 month-1 yr: 125mg TDS 1-5 years: 250mg TDS 5-18 years: 500mg TDS 12-18years severe infection 1g TDS	5 days
	For Abx to prevent Mastoiditis the NNT >4000	Penicillin Allergy: clarithromycin	Adult dose 250-500mg BD	5 days
Acute Otitis Externa CKS OE	First use aural toilet (if available) and analgesia. Cure rates similar at 7 days for topical acetic acid or antibiotic +/- steroid. If cellulitis/disease extending outside ear canal, start oral antibiotics & refer to exclude malignant OE	First Line: acetic acid 2% Second Line: neomycin sulphate with corticosteroid	1 spray TDS 3 drops TDS	7 days 7 days min to 14 days max
Acute Rhinosinusitis CKS RS	Avoid antibiotics as 80% resolve in 14 days without, and they only offer marginal benefit after 7 days NNT15 Use adequate analgesia Consider 7-day delayed or immediate antibiotic	Amoxicillin or doxycycline or	500mg TDS @ 1g if severe 100mg BD 500mg QDS @	7 days 7 days 7 days
	when purulent nasal discharge NNT8 In persistent infection use an agent with anti- anaerobic activity eg. metronidazole	phenoxymethylpenicillin For persistent symptoms: Amoxicillin plus metronidazole	500mg QDS	7 days 7 days

ILLNESS	COMMENTS	DRUG	ADULT DOSE © = childrens' dose	DURATION OF
			(Ctrl + click on icon to follow link)	TREATMENT
	IRATORY TRACT INFECTIONS			
	of penicillins are more likely to select out resistance, we e due to poor pneumococcal activity. Reserve all quinc			
Acute cough, bronchitis	Antibiotic little benefit if no co-morbidity Consider 7d delayed antibiotic with advice	amoxicillin or	500 mg TDS	5 days
<u>CKS</u>	Symptom resolution can take 3 weeks. Consider immediate antibiotics if > 80yr and ONE	doxycycline	100 mg BD	5 days
NICE 69	of: hospitalisation in past year, oral steroids, diabetic, congestive heart failure OR > 65yrs with 2 of above.			
Acute	Treat exacerbations promptly with antibiotics if	Amoxicillin	500 mg TDS	5 days
exacerbation of	purulent sputum and increased shortness of	<i>or</i> doxycycline	100 mg BD	5 days
COPD	breath and/or increased sputum volume	or clarithromycin	500mg BD	5 days
NICE 12	Check previous results of sputum culture contact microbiologist if failure to respond /	If resistance:	500mg BD	5 days
	resistant pathogens	Clarithromycin		
GOLD	Risk factors for antibiotic resistant organisms include co-morbid disease, severe COPD, frequent			
C	exacerbations, antibiotics in last 3 months	IF CDDCF Or any 1 Mile	F00 TDC	> = 4
Community- acquired	Use CRB65 score to guide mortality risk, place of care and antibiotics. Each CRB65 parameter scores	IF CRB65=0: amoxicillin or clarithromycin	500 mg TDS	5 days ther review.
pneumonia- treatment in	1: Confusion (AMT<8); Respiratory rate >30/min; BP	<i>or</i> doxycycline	100 mg BD	Stop or
the community	systolic <90 or diastolic ≤ 60; Age >65;			change If
the community	Score 0: Low risk: consider home based care			response
BTS 2009	Score 1-2: intermediate risk: consider hospital	If CRB65=1-2 & AT HOME,		·
	assessment	clinically assess need for		
NICE 191	Score 3-4: urgent hospital admission	dual therapy for		
	Always give safety net advice and likely duration	atypicals:		٦
	of symptoms. Give immediate IM benzylpenicillin	amoxicillin	500 mg TDS	L
	or amoxicillin 1G po if delayed admission/life threatening	AND clarithromycin	U	7 days
	Mycoplasma infection is rare in over 65s	OR doxycycline alone	100 mg BD	
URINARY TRA	ACT INFECTIONS — refer to HPA UTI guidance	for diagnosis information	. As antimicrobial resist	ance and
	oli bacteraemia is increasing, use nitrofurantoin			
UTI in adults	Treat women with severe/or ≥ 3 symptoms;	First line: nitrofurantoin	100mg m/r BD) Women all
(no fever or	women mild/or ≤ 2 symptoms AND Urine NOT	if GFR > 45ml/min.		ages 3 days
flank pain)	cloudy 97% negative predictive value, do not treat	GFR 30-45: only use in		Men 7 days
	unless other risk factors for infection.	caution if resistance and		J
PHE URINE	If cloudy urine use dipstick to guide treatment.	no alternative and benefit		
<u>SIGN</u>	Nitrite plus blood or leucocytes has 92% positive predictive value; nitrite, leucocytes, blood all	outweighs risk – discuss with microbiologist.		
CKS women	negative 76% NPV. Consider a back-up/ delayed antibiotic option.	GFR < 30 or 30-45 and organism susceptible on		
CKS men	Men: Consider prostatitis and send pre-treatment	culture: Trimethoprim	200mg BD	
RCGP UTI	MSU OR if symptoms mild/non-specific, use negative dipstick to exclude UTI.	If organism susceptible: amoxicillin	500mg TDS	
clinical module	Always safety net.	Use nitrofurantoin first line	_	
SAPG UTI	Check all previous MSUs.	multi-resistant. Extended-s		
	First line : nitrofurantoin if GFR <u>over</u> 45ml/min. GFR 30-45: only use if resistance and no alternative.	increasing. Trimethoprim (i line agent.	r low risk of resistance) is a	iternative first
	In treatment failure: always perform culture.	Dick factors for increased resistance includes and bears resident		
	People > 65 years: do not treat asymptomatic	Risk factors for increased resistance include : care home resident, recurrent UTI, Long-term prophylaxis, catheter use, hospitalisation		
	bacteriuria ; it is common but is not associated	>7d in the last 6 months, ur		
	with increased morbidity	to a country with increased		
	Catheter in situ: antibiotics will not eradicate	Europe and Australasia) esp		
	asymptomatic bacteriuria; only treat if	resistant to trimethoprim, o	cephalosporins or quinolon	es.
	systemically unwell or pyelonephritis likely.	If increased resistance risk	, send culture for susceptib	ility testing &
	Do not use prophylactic antibiotics for catheter	give safety net advice.		
	changes unless history of catheter-change-			
	associated UTI or trauma (<u>NICE</u> , <u>SIGN</u> guidance).			

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Acute	Send MSU for culture and start antibiotics.	Ciprofloxacin	500mg BD	28 days
prostatitis	4-wk course may prevent chronic prostatitis.	<i>or</i> ofloxacin	200 mg BD	28 days
BASHH, CKS	Quinolones achieve higher prostate levels.	2 nd line: trimethoprim	200 mg BD	28 days 1C
UTI in	Send MSU for culture and start antibiotics.	First line: nitrofurantoin	100 mg m/r BD)
pregnancy	Short-term use of nitrofurantoin in pregnancy is	<i>IF</i> susceptible, <u>amoxicillin</u>	500 mg TDS	
PHE URINE	unlikely to cause problems to the foetus.	Second line: trimethoprim	200 mg BD (off-label)	7 days
CKS	Avoid trimethoprim if low folate status or on folate	Give folate if 1st trimester		
NICE	antagonist (eg antiepileptic or proguanil)	Third line: cefalexin	500 mg BD	IJ
UTI in Children	Child <3 months: refer urgently for assessment	Lower UTI: trimethoprim@	or nitrofurantoin@	Lower UTI
PHE URINE	Child ≥ 3 months : use positive nitrite to guide.	IF susceptible, amoxicillin @)	3 days
<u>CKS</u>	Start antibiotics: also send pre-treatment MSU.	Second line: cefalexin @		
<u>NICE</u>	Imaging: only refer if child <6 months, or recurrent			
	or atypical UTI	Upper UTI: co-amoxiclav⊖		Upper UTI
		Second line: cefixime 😉		7-10 days
Acute	If admission not needed, send MSU for culture &	Ciprofloxacin	500 mg BD	7 days
pyelonephritis	susceptibility and start antibiotics.	or		
CKS	If no response within 24 hours, admit.	Co-amoxiclav	500/125mg TDS	7 days
	If ESBL risk and with microbiology advice consider	If lab report shows	_	
	IV antibiotic via COMMIT	sensitive: trimethoprim	200mg BD	14 days
Recurrent UTI in non- pregnant women: 2 in 6 months or ≥ 3 UTIs/year	To reduce recurrence first advise simple measures, including hydration, analgesia, then standby or post-coital antibiotics, then prophylaxis. Cranberry products work for some women, but good evidence is lacking. Methenamine can be used as prophylaxis in patients without renal tract abnormalities. Nightly prophylaxis reduces UTIs but adverse effects and long term compliance is poor. Consider referral for appropriate investigations as to cause before starting long term antibiotics. Carry out blood tests, including U&Es, fasting glucose. GP review 6 monthly and stop for at least one month each year to ensure continued effectiveness, as resistance likely to develop	Susceptibilty results should be used to guide antibiotic choice. If eGFR>45, use nitrofurantoin first line if sensitive 2nd line: If recent culture sensitive: Trimethoprim. Methenamine hippurate	100 mg At night OR post-coital Stat (off-label) 1g BD	For 6 months, then review recurrence rate and need. 6 months. NB. Long term prophylaxis should usually be for six months in the first instance, then careful assessment of
MENINGITIS Suspected meningococcal disease PHE Meningo	during this time. Consider sending MSU for culture to check sensitivity. (NICE fever guidelines) Transfer all patients to hospital immediately. IF time before admission, and non-blanching rash, give IV benzylpenicillin or cefotaxime, unless definite history of hypersensitivity	IV or IM benzylpenicillin Or IV or IM cefotaxime	Age 10+ years: 1200mg Children 1 - 9 yr: 600mg Children <1 yr: 300mg Age 12+ years: 1gram	long term risk, as resistance likely. Give IM if vein cannot be found
	ondary case of meningitis: Only prescribe following a ESTINAL TRACT INFECTIONS Topical azoles more effective than topical nystatin. Oral candidiasis rare in immunocompetent adults; consider undiagnosed risk factors including HIV. Fluconazole if extensive/severe candidiasis; if HIV or immunosuppression use 100mg.	Miconazole oral gel If miconazole not tolerated nystatin suspension Fluconazole oral tablets	20mg/ml QDS 400,000 – 600,000 units QDS 50mg OD <i>or</i>	7 days or until 2 days after symptoms.
			100mg OD	further 7 days if persistent

ILLNESS	COMMENTS	DRUG	ADULT DOSE ② = childrens' dose (Ctrl + click on icon to follow link)	DURATION OF TREATMENT
Eradication of	Treat all positives if known DU, GU low	Always use PPI.	BD	1
Helicobacter	grade MALToma, or NNT in Non-Ulcer	PPI WITH amoxicillin and	1g BD	1
pylori	dyspepsia (NNT 14 for symptom relief). Consider	either clarithromycin	500mgBD	
	test and treat in persistent un-investigated	OR metronidazole.	400mg BD	
NICE dyspepsia	dyspepsia. Do not offer eradication for GORD.	Penicillin allergy &	S .	
	Do not use clarithromycin, metronidazole or	previous		
NICE H.pylori	quinolone if used in past year for any infection.	Clarithromycin: PPI WITH	BD	
	Penicillin allergy:1 use PPI + clarithromycin &	De-nol tab® (tripotassium	240mg BD	All for
PHE H.pylori	MTZ. If previous clarithromycin use PPI + bismuth	dicitratobismuthate)		7 days
	salt + metronidazole + tetracycline.	OR bismuth subsalicylate	525mg QDS	} ′
CKS	Relapse and previous MTZ & clari: use PPI +	+ metronidazole	400mg BD	MALToma
	amoxicillin + either tetracycline or levofloxacin.	+ Tetracycline	500mg QDS	14 days
	Penicillin allergy: PPI+ tetracycline + levofloxacin.	hydrochloride		
	Retest for H.pylori post DU/GU or relapse after	Relapse & previous		
	second line therapy: using breath or stool test OR	<i>MTZ+clari:</i> PPI WITH	BD	
	consider endoscopy for culture & susceptibility.	amoxicillin	1g BD	
		+ tetracycline	500mg QDS	
		hydrochloride		
		OR levofloxacin	250mg BD	J
Infectious	Refer previously healthy children with acute painful of	or bloody diarrhoea to exclud	_	
diarrhoea CKS	Antibiotic therapy not indicated unless systemically undercooked meat and abdominal pain), consider cladays).			
Clostridium	MUST CONTACT MICROBIOLOGIST FOR ALL	1st episode/ mild/		
difficile	CASES. ALSO DISCUSS USE OF ANY ANTIBIOTIC IN	moderate:		
	PATIENTS WITH PREVIOUS CDIFF.	metronidazole (MTZ)	400mg or 500mg TDS	14 days
DH	Stop unnecessary antibiotics and/or PPIs			
PHE	70% respond to MTZ in 5days; 92% in 14days.	2nd episode/severe/type		
	If severe symptoms or signs (below) should treat	027:		
	with oral vancomycin, review progress closely	oral vancomycin	125mg QDS	14 days
	and/or consider hospital referral.	,	0 4	
	Definition of severe: T >38.5; or WCC >15, or rising	Recurrent disease see		
	creatinine or signs/symptoms of severe colitis	rationale:		
	Complete a PIR form within 10 days of notification	oral vancomycin	125mg QDS consider	14 days
	of CDI.	•	taper	,
Traveller's	Only consider standby antibiotics for remote areas of	or people at high-risk of sever	e illness with travellers' dia	rrhoea.
diarrhoea	If standby treatment appropriate give ciprofloxacin 5			
CKS	(eg south Asia): consider bismuth subsalicylate (Pept			_
Threadworm	Treat all household contacts at the same time PLUS	All patients over 6	, , , , , , , , , , , , , , , , , , , ,	Stat dose, but
	advise hygiene measures for 2 weeks (hand	months:		repeat in 2
CKS	, ,		100 mg	•
CKS threadworm	hygiene, pants at night, morning shower include	mebendazole (off-label if	100 mg	repeat in 2 weeks if infestation
	hygiene, pants at night, morning shower include perianal area) PLUS wash sleepwear, bed linen,	mebendazole (off-label if <2yrs)	100 mg	weeks if infestation
	hygiene, pants at night, morning shower include perianal area) PLUS wash sleepwear, bed linen, and dust, vacuum on day one. Child <6 months add	mebendazole (off-label if <2yrs) Child <6 mths:	100 mg	weeks if
	hygiene, pants at night, morning shower include perianal area) PLUS wash sleepwear, bed linen,	mebendazole (off-label if <2yrs) Child <6 mths: mebendazole is	100 mg	weeks if infestation
	hygiene, pants at night, morning shower include perianal area) PLUS wash sleepwear, bed linen, and dust, vacuum on day one. Child <6 months add	mebendazole (off-label if <2yrs) Child <6 mths: mebendazole is unlicensed, use hygiene	100 mg	weeks if infestation
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threadworm	hygiene, pants at night, morning shower include perianal area) PLUS wash sleepwear, bed linen, and dust, vacuum on day one. Child <6 months add perianal wet wiping or washes 3 hourly during day.	mebendazole (off-label if <2yrs) Child <6 mths: mebendazole is unlicensed, use hygiene measures alone for 6 weeks	J	weeks if infestation persists
threadworm GENITAL TRA	hygiene, pants at night, morning shower include perianal area) PLUS wash sleepwear, bed linen, and dust, vacuum on day one. Child <6 months add perianal wet wiping or washes 3 hourly during day. CT INFECTIONS Contact UKTIS for inform	mebendazole (off-label if <2yrs) Child <6 mths: mebendazole is unlicensed, use hygiene measures alone for 6 weeks nation on foetal risks	if patient is pregnan	weeks if infestation persists
threadworm GENITAL TRA	hygiene, pants at night, morning shower include perianal area) PLUS wash sleepwear, bed linen, and dust, vacuum on day one. Child <6 months add perianal wet wiping or washes 3 hourly during day.	mebendazole (off-label if <2yrs) Child <6 mths: mebendazole is unlicensed, use hygiene measures alone for 6 weeks nation on foetal risks nydia, gonorrhoea, HIV, syphi	if patient is pregnan lis. Refer individual and par	weeks if infestation persists t.
GENITAL TRA STI screening	hygiene, pants at night, morning shower include perianal area) PLUS wash sleepwear, bed linen, and dust, vacuum on day one. Child <6 months add perianal wet wiping or washes 3 hourly during day. CT INFECTIONS Contact UKTIS for inform People with risk factors should be screened for chlan service. Risk factors: < 25y, no condom use, recent (-	mebendazole (off-label if <2yrs) Child <6 mths: mebendazole is unlicensed, use hygiene measures alone for 6 weeks nation on foetal risks nydia, gonorrhoea, HIV, syphi	if patient is pregnan lis. Refer individual and par	weeks if infestation persists t.
GENITAL TRA STI screening Chlamydia	hygiene, pants at night, morning shower include perianal area) PLUS wash sleepwear, bed linen, and dust, vacuum on day one. Child <6 months add perianal wet wiping or washes 3 hourly during day. CT INFECTIONS Contact UKTIS for inform People with risk factors should be screened for chlan service. Risk factors: < 25y, no condom use, recent (-HIV.	mebendazole (off-label if <2yrs) Child <6 mths: mebendazole is unlicensed, use hygiene measures alone for 6 weeks nation on foetal risks nydia, gonorrhoea, HIV, syphi <12mth)/frequent change of Azithromycin	if patient is pregnan lis. Refer individual and par partner, symptomatic partn	weeks if infestation persists t. tners to GUM ner, area of high
GENITAL TRA STI screening Chlamydia trachomatis/	hygiene, pants at night, morning shower include perianal area) PLUS wash sleepwear, bed linen, and dust, vacuum on day one. Child <6 months add perianal wet wiping or washes 3 hourly during day. CT INFECTIONS Contact UKTIS for inform People with risk factors should be screened for chlan service. Risk factors: < 25y, no condom use, recent (HIV. Opportunistically screen all aged 15-25yrs. Treat partners and refer to GUM service.	mebendazole (off-label if <2yrs) Child <6 mths: mebendazole is unlicensed, use hygiene measures alone for 6 weeks nation on foetal risks nydia, gonorrhoea, HIV, syphi <12mth)/frequent change of Azithromycin or doxycycline	if patient is pregnan lis. Refer individual and par partner, symptomatic partr	weeks if infestation persists t. tners to GUM her, area of high
GENITAL TRA STI screening Chlamydia trachomatis/ urethritis	hygiene, pants at night, morning shower include perianal area) PLUS wash sleepwear, bed linen, and dust, vacuum on day one. Child <6 months add perianal wet wiping or washes 3 hourly during day. CT INFECTIONS Contact UKTIS for inform People with risk factors should be screened for chlan service. Risk factors: < 25y, no condom use, recent (HIV. Opportunistically screen all aged 15-25yrs. Treat partners and refer to GUM service. Pregnancy or breastfeeding: azithromycin is the	mebendazole (off-label if <2yrs) Child <6 mths: mebendazole is unlicensed, use hygiene measures alone for 6 weeks nation on foetal risks nydia, gonorrhoea, HIV, syphi <12mth)/frequent change of Azithromycin or doxycycline Pregnant or	if patient is pregnan lis. Refer individual and par partner, symptomatic partn	weeks if infestation persists t. tners to GUM per, area of high
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ILLNESS	COMMENTS	DRUG	⊕ = childrens' dose (Ctrl + click on icon to follow link)	DURATION OF TREATMENT
Vaginal Candidiasis	All topical and oral azoles give 75% cure.	Clotrimazole or	500 mg pess or 10% cream	Stat
<u>BASHH</u>	In pregnancy avoid oral azoles and use intravaginal	oral fluconazole.	150 mg orally	stat
PHE, CKS	treatment for 7 days.	Pregnant: clotrimazole	100 mg pessary at night	6 nights
		or miconazole 2% cream	5 g intravaginally BD	7 days
Bacterial	Oral metronidazole (MTZ) is as effective as topical	oral metronidazole (MTZ)	400 mg BD	7 days
vaginosis BASHH	treatment but is cheaper. Less relapse with 7 day than 2g stat at 4 wks.	or MTZ 0.75% vag gel	or 2 g stat 5 g applicator at night	stat 5 nights
PHE, CKS	Pregnant/breastfeeding: avoid 2g stat.	0/ W112 0.75/0 Vag gc1	3 g applicator at hight	3 mgmcs
	Treating partners does not reduce relapse	or clindamycin 2% cream	5 g applicator at night	7 nights
Gonorrhoea	Antibiotic resistance is now very high. Use IM	Ceftriaxone PLUS	500mg IM	Stat
	ceftriaxone plus azithromycin and refer to GUM.	azithromycin	1g	stat
Trichomoniasis	Treat partners and refer to GUM service.	Metronidazole (MTZ)	400 mg BD	5-7 days
<u>BASHH</u>	In pregnancy or breastfeeding: avoid 2g single		or 2 g	stat
PHE, CKS	dose MTZ. Consider clotrimazole for symptom relief (not cure) if MTZ declined.	Clotrimazole	100 mg pessary at night	6 nights
	Refer woman and contacts to GUM service. Always	Metronidazole PLUS	400 mg BD	14 days
Pelvic	culture for gonorrhoea & chlamydia.	ofloxacin	400 mg BD	14 days
Inflammatory Disease	If gonorrhoea likely (partner has it, severe symptoms, sex abroad) resistance to quinolones is	<i>or</i> doxycycline	100mg BD	14 days
Discuse	high, use ceftriaxone regimen or refer to GUM.	If high risk of Gonorrhoea		
<u>BASHH</u>	Avoid doxycycline in pregnancy	ADD ceftriaxone	500 mg IM	Stat
<u>CKS</u>	Nb. Ofloxacin when being started empirically in the			
	community as second line agents should be			
	avoided in patients who are at high risk of			
	gonococcal PID because of increasing quinolone resistance in the UK			
CKIN INIEECTI	ONS – For MRSA infection see PHE Quick	r Poforonco Guido		
Impetigo	For extensive, severe, or bullous impetigo, use oral	Oral flucloxacillin	500 mg QDS	7 days
CKS	antibiotics.	If penicillin allergic:	300 mg Q33	7 4475
	Reserve topical antibiotics for very localised lesions	oral clarithromycin	250-500 mg BD 😌	7 days
	to reduce the risk of resistance			
	Reserve mupirocin for MRSA	MRSA only mupirocin	TDS	5 days
Eczema	If no visible signs of infection, use of antibiotics (alon		es resistance and does not i	mprove healing.
CKS Cellulitis	In eczema with visible signs of infection, use treatme Class I: patient afebrile and healthy other than	Flucloxacillin	500 mg QDS ©	1
CKS	cellulitis, use oral flucloxacillin alone.	Tracioxaciiiii	300 1116 QD3	All for 5 – 7
	Class II febrile & ill, or comorbidity, admit for	If penicillin allergic:		days, then
	intravenous treatment, or use OPAT (if available).	Clarithromycin	500 mg BD 😊	discuss with
	Class III toxic appearance: admit. If river or sea	or clindamycin	600 mg QDS	microbiologist
	water exposure, discuss with specialist.	If unresolved: clindamycin	300-450mg QDS*	if
			* = discuss with microbiologists	unresponsive
		If facial: co-amoxiclav	500/125 mg TDS ©	
Leg ulcer	Ulcers always colonized. Antibiotics do not	Active infection if cellulitis/		ulent
PHE	improve healing unless active infection –	exudate/odour		
CKS	inappropriate use of Abx can lead to a C. Diff	If active infection:] .
	infection.	flucloxacillin	500 mg QDS	As for
	If active infection, send pre-treatment swab. Review antibiotics after culture results.	or clarithromycin	500 mg BD 😊	J cellulitis
MRSA	For MRSA infection: see PHE Quick Reference Guide	<u> </u>	l	<u>l</u>
DVI	Panton-Valentine Leukocidin (DVII) is a tovin produce	d by 1 9% of S aureus from h	noils/abscesses This bactor	a can rarely
PVL PHE	Panton-Valentine Leukocidin (PVL) is a toxin produce	-		
PVL PHE	Panton-Valentine Leukocidin (PVL) is a toxin produce cause severe invasive infections in healthy people; if boils/abscesses.	-		

			ADULT DOCE	
			ADULT DOSE ⊕ = childrens' dose	DUDATION OF
ILLNESS	COMMENTS	DRUG		DURATION OF TREATMENT
			(Ctrl + click on icon to	INLATIVILINI
Bites Human:	Thorough irrigation is important	Dranhylavic or treatment:	follow link)	`
bites numan.	Assess risk of tetanus, rabies, HIV, hepatitis B/C	Prophylaxis or treatment: co-amoxiclav	375-625 mg TDS 🕲	}
<u>CKS</u>	Antibiotic prophylaxis is advised.	If penicillin allergic:	373-023 Hig 1D3	
CKS	Antibiotic propriylaxis is advised.	metronidazole PLUS	400 mg TDS 😊	All for 7
Bites Cat or	Give prophylaxis if cat bite/puncture wound; bite to	doxycycline	100 mg BD	days
dog:	hand, foot, face, joint, tendon, ligament;	(cat/dog/man)	100 1116 00	1 44,5
	immunocompromised/diabetic/asplenic/	or metronidazole PLUS	200-400 mg TDS	
	Cirrhotic/ presence of valve or prosthetic joint.	clarithromycin (human	250-500 mg BD	
		bite)	Ü	
		AND review at 24 & 48hrs		
Scabies	Treat whole body from ear/chin downwards and	permethrin	5% cream) Two
CKS	under nails. If under 2/elderly, also face/scalp.	If allergy:		applications
	Treat all home and sexual contacts within 24hrs.	malathion	0.5% aqueous liquid	one week
				J apart
Dermatophyte	Terbinafine is fungicidal: treatment time shorter	Topical terbinafine	BD)
infection – skin	than with fungistatic imidazoles.			1-2 weeks
<u>CKS</u>	If candida possible, use imidazole.	or topical imidazole	BD	for 1-2 wks
CKS foot	If intractable, send skin scrapings, and if infection			after
CKS scalp	confirmed, use <u>oral</u> terbinafine/itraconazole.	or (athlete's foot only):		healing
	Scalp: discuss with specialist, oral therapy	topical undecanoates:	BD	(i.e. 4 - 6
	indicated.	Mycota®		ノ wks)
Dermatophyte	Take nail clippings: start therapy only if infection is	First line: terbinafine	250mg OD fingers	6 – 12 weeks
infection - nail	confirmed by laboratory.	Constant lines that are a second	toes	3 – 6 months
<u>CKS</u>	Oral terbinafine is more effective than oral azole.	Second line: itraconazole.	200mg BD	7 days mnthly 2 courses
	Liver reactions rare with oral antifungals. If candida or non-dermatophyte infection	Third line for very	fingers toes	3 courses
	confirmed, use oral itraconazole.	superficial as limited	lues	3 courses
	For children, seek specialist advice.	evidence of effectiveness:		
	Tor crimarch, seek specialist davice.	amorolfine 5% nail	1-2x/weekly fingers	6 months
		lacquer	toes	12 months
Varicella	Pregnant/immunocompromised/neonate: seek	If indicated:		
zoster/chicken	urgent specialist advice.	aciclovir	800 mg five times a day	7 days
рох	Chicken pox: IF onset of rash <24h & >14y or		,	,
<u>CKS</u>	severe pain or dense/oral rash or 2° household	Second line for shingles if		
	case or steroids or smoker, consider aciclovir	compliance a problem, as		
Herpes	Shingles: treat if >50 yrs and within 72 hrs of rash	ten times cost		
zoster/shingles	(PHN rare if <50yrs); or if active ophthalmic or	valaciclovir	1 g TDS	7 days
<u>CKS</u>	Ramsey Hunt or eczema.	or famciclovir	500 mg TDS or 750mg	7 days
			BD	
Cold sores	Cold sores resolve after 7–10d without treatment. To	ppical antivirals applied prodr	omally reduce duration by	12-24hrs
EYE INFECTIO				
Conjunctivitis	Treat if severe, as most viral or self-limiting.	If severe:)
<u>CKS</u>	Bacterial conjunctivitis is usually unilateral and <u>also</u>	chloramphenicol 0.5%	2 hourly for 2 days then	
	self-limiting; it is characterised by red eye with	drops and 1% ointment	4 hourly (whilst awake)	All for 48
	mucopurulent, not watery, discharge;		at night	hours after
	65% resolve on placebo by day five.	Second line:		resolution
	Fusidic acid has less Gram-negative activity	fusidic acid 1% gel	Two times a day	J

Summary table - Dental infections treated in primary care outside dental setting

DENTAL INFECTIONS – derived from the Scottish Dental Clinical Effectiveness Programme 2011 SDCEP Guidelines

This guidance is not designed to be a definitive guide to oral conditions. It is for GPs for the management of acute oral conditions pending being seen by a dentist or dental specialist. GPs should not routinely be involved in dental treatment and, if possible, advice should be sought from the patient's dentist, who should have an answer-phone message with details of how to access treatment out-of-hours, or telephone 111 (NHS 111 service)

ILLNESS	COMMENTS	DRUG	ADULT DOSE © = childrens' dose (Ctrl + click on icon to follow link)	DURATION OF TREATMENT
Mucosal ulceration and inflammation (simple gingivitis)	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.	Simple saline mouthwash Chlorhexidine 0.12-0.2% (Do not use within 30 mins of toothpaste) Hydrogen peroxide 6% (spit out after use)	½ tsp salt dissolved in glass warm water. Rinse mouth for 1 minute BD with 5 ml diluted with 5-10 ml water. 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
Acute necrotising ulcerative gingivitis	Commence metronidazole and refer to dentist for scaling and oral hygiene advice. Use in combination with antiseptic mouthwash if pain limits oral hygiene.	Metronidazole Chlorhexidine or hydrogen peroxide	400 mg TDS see above dosing in mucosal ulceration	hygiene 3 days Until oral hygiene possible
Pericoronitis	Refer to dentist for irrigation & debridement. If persistent swelling or systemic symptoms use metronidazole. Use antiseptic mouthwash if pain and trismus limit oral hygiene.	Amoxicillin Metronidazole Chlorhexidine or hydrogen peroxide	500 mg TDS 400 mg TDS see above dosing in mucosal ulceration	3 days 3 days Until oral hygiene possible
Dental abscess ^B	root canal. Send pus for microbiology. If spreading infection (lymph node involvement, or systemic signs ie fever or malaise) ADD metronidazole. True penicillin allergy: use clarithromycin	lone, without drainage are ine evere infection, systemic symp plus signs of sepsis, difficulty in ission to protect airway, achie clarithromycin, and clindamy	offective in preventing spread btoms or high risk of compli- in swallowing, impending air eve surgical drainage and IV cin do not offer any advanta	d of infection. cations. way antibiotics. age for most