

Empirical Antibiotic Therapy – Primary Care Infection Management

STOP AND THINK BEFORE ANTIBIOTIC THERAPY: 1 in 5 antimicrobial courses is associated with adverse events including *C.difficile*, drug interactions or toxicity
Always look at [RDS for full guidelines](#). This poster is intended as a quick reference guide and is not a substitute for full guidelines. Click on headings in each section for full guidelines.

Respiratory Tract Infection		Skin/Soft Tissue infections		Gastrointestinal infections		Urinary Tract Infections		CNS/Meningococcal sepsis		Sexually Transmitted Infections	
Infective Exacerbation of COPD Many are non-infective or viral infections so will not respond to antibiotics Treat if purulent sputum AND one of increased shortness of breath or increased sputum volume Amoxicillin 500mg PO 8 hourly Or Doxycycline* 200mg PO STAT, then 100mg daily If risk of resistance/failure of first line treatment: Co-trimoxazole 960mg BD (check renal function) Duration: 5 days		Cellulitis Flucloxacillin 500mg – 1g PO QDS <u>Penicillin allergy:</u> Doxycycline* 200mg PO STAT then 100mg daily Duration: 5 days Refer to full guideline section if <12yr old or infection near eyes or nose		Gastroenteritis Antibiotics rarely indicated Review comments on microbiology report if pathogen confirmed.		UTI in Pregnancy See NHS FV Obstetric Guidance		Suspected Meningococcal Disease <i>Transfer to hospital URGENTLY – give antibiotics only if it won’t delay transfer</i> Benzylpenicillin IV/IM Stat Adults and children >10yrs: 1200mg Children 1-9yrs: 600mg Children <1yrs: 300mg <u>Non severe Penicillin allergy:</u> Cefotaxime IV/IM stat Adults and children >12yrs: 1g Children <12yrs: 50mg/kg <u>Severe penicillin allergy e.g. anaphylaxis</u> – no antibiotic prior to transfer <i>Notify case to Public Health team via switchboard</i>		Refer all patient with a sexually transmitted infection to Central sexual health: 01324673554	
CAP Start antibiotics immediately Assess for sepsis Calculate CRB65: <ul style="list-style-type: none">Confusion (new)RR ≥ 30BP – diastolic ≤ 60 or systolic < 90Age ≥ 65 years CRB65 = 0: Amoxicillin 500mg 8 hourly <u>Penicillin allergy:</u> Doxycycline* 200mg stat, then 100mg daily CRB65 1-2: consider hospital assessment Amoxicillin 500mg TDS <u>Second line:</u> Co-trimoxazole 960mg BD Duration: 5 days CRB65 ≥3: consider urgent hospital admission		Sore Throat Use FeverPAIN score to assess 0-1: no antibiotic 2-3: no antibiotic or 3–5-day back-up antibiotic ≥ 4: immediate antibiotic or 2-day back-up antibiotic Phenoxyethylpenicillin >12 years: 500mg QDS <12 years: see BNFc <u>Penicillin allergy:</u> clarithromycin* >12 years: 250-500mg BD <12 years: see BNFc Duration: 5 days		Travellers Diarrhoea “Stand-by” antibiotics should not be routinely offered. If systemic illness – d/w microbiology		Uncomplicated UTI Assess need for antibiotic and/or urine C&S using local micro guidance Trimethoprim 200mg PO 12 hourly OR Nitrofurantoin MR 100mg PO 12 hourly Duration: Female: 3 days / Male: 7 days (consider renal function) <u>Second line:</u> Pivmecillinam/Fosfomycin (info)		Eye Infections		Genital Herpes Aciclovir 400mg TDS Duration: 5 days Refer all patients to central sexual health for further advice	
Diabetic Foot Infection Mild: Flucloxacillin 1g QDS <u>Penicillin allergy:</u> Doxycycline* 100mg BD Duration: 7-14 days guided by clinical response See full guideline section for moderate/severe infections		H. Pylori Eradication Omeprazole 20mg BD + Amoxicillin 1g BD + Metronidazole 400mg TDS <u>Penicillin allergy:</u> replace Amoxicillin with Clarithromycin* 500mg BD Duration: 7 days <u>Always test before starting eradication – see full guideline section</u>		UTI in Children <3 months: refer urgently for assessment Trimethoprim OR Nitrofurantoin OR Cefalexin See full guideline section for dosing Duration: 3 days		Acute Pyelonephritis If admission not needed - send urine C&S and start antibiotics. Cefalexin 1g TDS or Co-trimoxazole 960mg BD Consider hospital admission if no response after 24 hours Duration: 7 days		Conjunctivitis Usually self limiting. Advice on self care measures . Antibiotics should only be considered in more severe cases <u>First line:</u> Chloramphenicol 0.5% eye drops 2 hourly for 48 hours, then 3-4 times daily <u>Second line:</u> Fusidic acid 1% eye drops BD Duration: until 48 hours after symptom resolution		Gonorrhoea/Syphilis Refer to central sexual health on 01324673554 or via SCI Gateway	
Suspected Viral RTI Antibiotics are of NO benefit – always give self care advice Influenza – consider oseltamivir 75mg BD for 5 days if at risk – see guidance COVID-19 – consider referral for treatment if in highest risk cohort		Human/animal bites with infection: Co-amoxiclav 625mg TDS <u>Penicillin allergy:</u> Doxycycline* 200mg STAT then 100mg daily + metronidazole 400mg TDS Duration: 5 days Human/Animal Bite without infection: Use full guideline section table to assess need for 3 days of antibiotic prophylaxis		Threadworms >6 months: Mebendazole 100mg stat. Repeat after 2 weeks if infestation persists <6 months: Hygiene measures only for 6 weeks		Catheter Associated UTI DO NOT treat catheter-related asymptomatic bacteriuria. If symptoms suggestive of CA-UTI (e.g. lower abdo pain, fever) obtain sensitivity from culture results prior to treatment. Consider catheter change if complicated infection or poor response to antibiotic		Blepharitis Usually self limiting. Treat only if self care measures ineffective after 2 weeks First line: chloramphenicol 1% eye ointment BD for 2 weeks <u>If posterior blepharitis/meibomian gland dysfunction/rosacea:</u> Doxycycline* 100mg OD for 4 weeks then 50mg OD for 8 weeks		Bacterial Vaginosis / Trichomoniasis Metronidazole 400mg BD for 7 days OR 2g stat Pregnant: avoid 2g stat dose	
Acute Cough - Bronchitis Antibiotics of little benefit if no co-morbidity - can take 3 weeks to resolve		Non-diabetic wound ulcer Flucloxacillin 500mg – 1g PO QDS <u>Penicillin allergy:</u> Doxycycline* 200mg PO STAT then 100mg daily <u>Second line:</u> Co-trimoxazole 960mg BD Duration: 7-14 days		Oral Candidiasis Miconazole oral gel QDS for 7 days after lesions healed OR Nystatin suspension 100,000 units (1mL) QDS for 7 days or 48hours after symptoms resolve <u>Second line:</u> Fluconazole 200mg STAT then 100mg daily for 7-21 days guided by response		Acute Prostatitis Co-trimoxazole 960mg BD <u>Alternative e.g. allergy, renal impairment</u> Ciprofloxacin* 500mg BD Duration: Review response at 14 days		Recurrent VVC Review comments on microbiology report and refer to full guideline section		Pelvic Inflammatory Disease See full guideline here Ensure testing for N. Gonorrhoea and Chlamydia prior to antibiotics	
Bronchiectasis Refer to guideline section		Scabies: Permethrin 5% cream 2 applications 1 week apart		*Drug Info Fluoroquinolone antibiotics (e.g. ciprofloxacin) can cause long-lasting, disabling and potentially irreversible side effects. Review the MHRA safety alert if considering to prescribe. Macrolides (e.g. Erythromycin/Clarithromycin) - risk of QTc prolongation and serious drug interactions Tetracyclines (e.g. Doxycycline) – significantly reduced by calcium, iron and magnesium – risk of failure if given at the same time		Recurrent UTI (non-preg women) <u>First line:</u> hydration, pain relief, consider cranberry or D-Mannose products <u>Second line:</u> standby-by or post-coital antibiotics <u>Third line:</u> consider methenamine 1g BD (r/v at 6 months) or nightly antibiotic prophylaxis.		Contacts: Microbiology Consultant On-call: 01324 567 677 or via switchboard		Infectious diseases Consultant (in-hours): 01324 567 931	
Acute Otitis Media Antibiotics usually not required - usually viral Amoxicillin >5 years: 500mg TDS <5 years: see BNFc <u>Penicillin allergy:</u> >12 years: Doxycycline 200mg stat then 100mg OD <12 years: Clarithromycin* See BNFc Duration: 5 days		Human/animal bites with infection: Co-amoxiclav 625mg TDS <u>Penicillin allergy:</u> Doxycycline* 200mg STAT then 100mg daily + metronidazole 400mg TDS Duration: 5 days		Acute Otitis Externa <u>First line:</u> Acetic acid 2% (EarCalm) spray - 1 spray TDS for 7 days <u>Second line:</u> Neomycin sulphate with corticosteroid - 3 drops TDS for 7-14 days		Acute Otitis Media Antibiotics usually not required - usually viral Amoxicillin >5 years: 500mg TDS <5 years: see BNFc <u>Penicillin allergy:</u> >12 years: Doxycycline 200mg stat then 100mg OD <12 years: Clarithromycin* See BNFc Duration: 5 days		Author: E Proud, R Weir Updated: October 2025 Review Date: October 2028			