

Adult Empirical Treatment of Infection Guidelines

STOP AND THINK BEFORE YOU GIVE ANTIBIOTIC THERAPY. ALWAYS DOCUMENT INDICATION IN MEDICAL NOTES. REVIEW ANTIBIOTIC THERAPY DAILY – can you: STOP? SWITCH? SIMPLIFY? or STATE DURATION?

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| DEFINITION OF SEPSIS: Clinical symptoms of infection (fever, sweats, chills or rigors, malaise) + 2 or more of the following: Temperature >38°C or <36°C Tachycardia HR >90 bpm Tachypnoea RR > 20/min WCC <4 or >12 Severe sepsis: associated with organ dysfunction, hypoperfusion or hypotension INDICATIONS FOR IV USE: See IVOST guideline – review IV therapy every 12-24 hours <ul style="list-style-type: none"> • 2 or more criteria above out with range • Febrile with neutropenia or immunosuppression • Specific infections e.g. endocarditis, septic arthritis, abscess, meningitis, osteomyelitis • Oral route compromised • Post surgery – unable to tolerate 1 litre of oral fluids • No oral formulation available | DOSING (unless stated) Amoxicillin Co-amoxiclav Clarithromycin Gentamicin Doxycycline Vancomycin Metronidazole Flucloxacillin Clindamycin Penicillin V Benzylpenicillin | ORAL 500mg – 1g tds 625mg tds 500mg bd n/a 200mg stat then 100mg od or bd only for C. difficile 400mg tds 1g qds 300-450mg tds 1g bd or 500mg qds n/a | IV 1g tds 1.2g tds 500mg bd see note below see note below 500mg tds 1-2g qds 600mg qds n/a 1.2g qds |
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GENTAMICIN: **NORMAL DURATION OF GENTAMICIN THERAPY SHOULD NOT EXCEED 2-3 DAYS**
 See separate guideline for information on calculating dose and monitoring levels. Monitor renal function daily.
NEEDS ID OR MICRO AUTHORISATION TO CONTINUE FOR >72 HOURS (OR >24 HOURS IF POOR/DETERIORATING RENAL FUNCTION)

VANCOMYCIN: See separate guideline for information on calculating dose and monitoring levels.

CNS: **MENINGITIS** Ceftriaxone IV 2g bd
 +/- Dexamethasone IV 0.15mg/kg qds started with or just before first dose of antibiotics (see protocol)
 • Add Aciclovir IV (10mg/kg tds) if encephalitis suspected • Add Amoxicillin IV 2g qds if > 50 years

ENT: **TONSILLITIS** Penicillin V (Benzylpenicillin IV if severe) **SINUSITIS** Acute Penicillin V **Chronic** Doxycycline
ACUTE OTITIS MEDIA Amoxicillin **EPIGLOTTITIS** Ceftriaxone IV 2g od

LUNG: **COMMUNITY ACQUIRED PNEUMONIA** (see CAP pathway)
Assess CURB65 score
0-2 Mild/Mod Amoxicillin 1g tds IV/PO (Doxycycline if pen allergic) 7 days
3-5 Severe Co-amoxiclav IV + Clarithromycin IV or Doxycycline PO
 (If penicillin allergic IV Levofloxacin)
 Step down to Doxycycline 100mg bd for all severe CAP
 Total IV/PO 10 days

HOSPITAL ACQUIRED PNEUMONIA OR ASPIRATION PNEUMONIA
Severe IV Amoxicillin + Metronidazole + Gentamicin
 Step down to Coamoxiclav PO 7-10 days total
Non severe Amoxicillin + Metronidazole for 7 days
 Previous ICU admission or history of MRSA – seek advice

ACUTE EXACERBATION OF COPD Give antibiotics if ↑sputum purulence. If no ↑sputum purulence then antibiotics not needed unless consolidation on CXR or signs of pneumonia.
1ST LINE Amoxicillin-500mg tds **2ND LINE** Doxycycline 200mg on day 1 then 100mg daily (5 days)

NON PNEUMONIC LRTI Consider as per COPD

HEART: **ENDOCARDITIS** • **Start empirical therapy and refer to ID/Microbiology**
 • **Gentamicin dose 1mg/kg tds modified according to renal function and levels – note: this dose is for endocarditis only**

Acute: Flucloxacillin IV 2g 4 – 6 hourly
 Indolent (Subacute): Benzylpenicillin IV 1.2g 4 hourly + Gentamicin
 Suspected MRSA/Prosthetic Valve: Vancomycin IV + Rifampicin PO 300 – 600mg bd + Gentamicin IV

GI: **CLOSTRIDIUM DIFFICILE ASSOCIATED DIARRHOEA (SEE PROTOCOL)**
 (refer to C diff protocol to assess severity)
 • Non severe: Metronidazole PO 400mg tds (10 days)
 • Severe: Vancomycin 125mg qds PO/NG (14 days)
 +/- IV Metronidazole

ACUTE GASTROENTERITIS
 No antibiotic treatment required. Seek advice if severe.

ACUTE PANCREATITIS
 Antibiotics unlikely to affect outcome. Seek advice.

PERITONITIS/BILIARY TRACT/ INTRA-ABDOMINAL (TOTAL IV/PO 7-10 days)
 IV Amoxicillin + Metronidazole + Gentamicin
 then step down to PO Co-trimoxazole 960mg BD
 (If penicillin allergic IV Vancomycin + Metronidazole + Gentamicin
 then seek advice for oral switch)

PROVEN SPONTANEOUS BACTERIAL PERITONITIS
 Co-trimoxazole IV 960mg bd
 Step down to Co-trimoxazole 960mg PO bd

GU: **CATHETERISED PATIENTS: DO NOT TREAT UNLESS CLINICAL SIGNS/SYMPTOMS OF INFECTION. IF DEFINITE INFECTION TREAT AS PER COMPLICATED UTI.**

FEMALE LOWER UTI Trimethoprim 200mg bd 3 days
UNCATHETERISED MALE UTI Trimethoprim PO 200mg bd 14 days

COMPLICATED UTI/PYELONEPHRITIS/UROSEPSIS (TOTAL IV/PO 14 DAYS)
 IV Amoxicillin + Gentamicin (Penicillin allergy: Co-trimoxazole +gentamicin)

BONE/SKIN: **CELLULITIS** (see full guideline to assess severity)
 Flucloxacillin 1g qds (7-14 days) Penicillin allergy: Doxycycline 100mg bd PO
 If history of MRSA or not responding: see MRSA guideline

DIABETIC FOOT INFECTION
 Acute: Flucloxacillin + Metronidazole

SEPTIC ARTHRITIS/OSTEOMYELITIS (seek ID advice)
 IV Flucloxacillin 2g qds

UNKNOWN SOURCE: IV Amoxicillin + Metronidazole + Gentamicin (consider adding Flucloxacillin/Vancomycin if concern re staphylococci)
 Penicillin allergy: IV Vancomycin + Metronidazole + Gentamicin **SEEK ADVICE IN ALL PATIENTS**