

Paediatric 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?

Before Starting Therapy consider the following -

- Viral Infections should not be treated with antibiotics
- Samples should be taken for culture sensitivity testing wherever possible.
- The dose of an antibacterial varies according to age, weight, hepatic/renal function and severity of infection. See BNF for Children for guidance.
- Route of administration depends on severity of infection.
- Duration of therapy depends on nature of infection and response to treatment. Courses should not be unduly prolonged.
- Consider whether monitoring of drug levels is required e.g. gentamicin

ANTIBIOTIC DOSING IN PAEDIATRICS

- For guidance on drug dosage please refer to current **BNF for Children**.
- Please contact your ward Clinical Pharmacist for further advice
- Click here for [Gentamicin](#) Protocol
- Click here for [Vancomycin](#) Protocol

Please note there is separate guidance for the management of infection in the immunocompromised, neonates and children with cystic fibrosis available on the Children's Hospital pages of staffnet

CNS
MENINGITIS <3 months Cefotaxime + Amoxicillin
> 3 months **1st dose** Cefotaxime followed 6 hours later with once daily Ceftriaxone.
(Cefotaxime given for first dose due to bolus administration. Ceftriaxone preferred where age allows after this due to once daily administration)
+/- Dexamethasone IV starting before or with first dose of antibiotic
- meningococci (7 days)
- pneumococci (14 days)
- Haemophilus influenzae (10 days)
Chloramphenicol if penicillin allergic (plasma concentrations MUST be measured)

Eye:
H.Simplex ENCEPHALITIS Aciclovir IV **SEEK MICRO ADVICE IN ALL PATIENTS**

ORBITAL CELLULITIS Flucloxacillin IV + Ceftriaxone IV +/- Metronidazole
Step down to oral co-amoxiclav **SEEK MICRO ADVICE FOR DURATION**

ENT:
TONSILLITIS Penicillin V (10 days) **EPIGLOTTITIS** Ceftriaxone IV
Clarithromycin if penicillin allergic (5 days) Chloramphenicol if penicillin allergic (plasma concentrations MUST be measured)
ACUTE OTITIS MEDIA Amoxicillin (5 days)
Clarithromycin if penicillin allergic (5 days)
MASTOIDITIS OR SINUSITIS Co-Amoxiclav IV/PO

LUNG:
COMMUNITY ACQUIRED PNEUMONIA **Non Severe** Amoxicillin PO (7 days) Clarithromycin if penicillin allergic.
(<1 year use Co-amoxiclav PO)
Severe Co-amoxiclav IV then PO (10 days total)
Add Clarithromycin if features of atypical pneumonia or pertussis

HOSPITAL-ACQUIRED PNEUMONIA/ POST OP/ASPIRATION Co-amoxiclav IV/PO (7 days). Seek Micro advice for further guidance around culture sensitivities

HEART:
ENDOCARDITIS **MUST SEEK MICRO ADVICE IN ALL PATIENTS**
- Flucloxacillin IV + Gentamicin IV (4-6 weeks)
- If symptoms less severe Benzylpenicillin IV + Gentamicin IV (at least 4 weeks)

GI:
GASTROENTERITIS Supportive measures only. Treat only after discussion with consultant or microbiology

PERITONITIS (PERFORATION OF VISCUS) Amoxicillin IV + Metronidazole IV + Gentamicin IV
Step down to Co-amoxiclav PO. If penicillin allergic seek micro advice.

GU:
LOWER UTI Trimethoprim PO or Nitrofurantoin PO (3 days if >3 months of age) < 3months IV Amoxicillin + Gentamicin IV

UPPER UTI **1st line** Amoxicillin IV + Gentamicin IV or **2nd line** Co-amoxiclav IV only
Step down to Co-amoxiclav PO (Total 7-10 days IV/PO)

PROPHYLAXIS OF UTI Trimethoprim PO

BONE/SKIN:
CELLULITIS/IMPETIGO Flucloxacillin IV/PO (7 days)
(Flucloxacillin provides cover *S.aureus*, group A & other *beta-haemolytic streptococci*)
Clarithromycin IV/PO if penicillin allergic
If severe infection Clindamycin IV

ANIMAL/HUMAN BITES Co-amoxiclav IV/PO
Clarithromycin + Metronidazole if penicillin allergic

SEPTIC ARTHRITIS/ **Seek Micro advice before treatment**
Flucloxacillin IV then PO (4-6 weeks)

BURNS Flucloxacillin IV/PO (7-10 days)
If pseudomonas cover required then seek specialist advice

OSTEOMYELITIS Clindamycin if penicillin allergic
(<5 years and not immunised against HiB add Ceftriaxone IV.)

PRIMARY H.SIMPLEX/ GINGIVOSTOMATITIS Aciclovir IV if unwell enough to warrant hospital admission.

UNKNOWN SOURCE:
PYREXIA OF UNKNOWN ORIGIN **If no focus as listed above** Amoxicillin IV + Metronidazole IV + Gentamicin IV.
If possible meningococcal septicaemia treat as per meningitis above
Seek advice for oral step down.

SUSPECTED LINE INFECTION Vancomycin IV. Add Gentamicin IV if Gram-negative sepsis suspected.