

Empirical First Line Antibiotic Therapy for Adult Patients

Guidance available via NHS Lanarkshire Guidelines App

STOP AND THINK BEFORE YOU GIVE ANTIBIOTICS

- 1 IN 5 ANTIBIOTIC COURSES ARE ASSOCIATED WITH ADVERSE EVENTS INCLUDING C. DIFFICILE, DRUG INTERACTIONS / TOXICITY, DEVICE RELATED INFECTIONS AND S. AUREUS BACTERAEMIA

REVIEW IV ANTIBIOTICS DAILY

1. DOCUMENT INDICATION CLEARLY IN NOTES AND ON HEPMA AT TIME OF PRESCRIBING
2. DOCUMENT CLEAR EVIDENCE OF REVIEW IN NOTES WITHIN 72 HOURS

SWITCH - Switch IV to oral when sepsis is resolving. Consult IVOST policy

SIMPLIFY - Review antibiotics and change to narrow spectrum once microbiology results are available

STOP - Observe indicated duration of therapy. Ensure stop date added to oral therapy on HEPMA

CURB65: Score 1 for each of:
• Confusion new (AMT \leq 8/10)
• Urea > 7 mmol/L
• RR \geq 30/min
• BP SBP < 90mmHg or DBP \leq 60mmHg
• Age \geq 65

Additional Adverse Prognostic Features:
• SpO₂ < 92% or PaO₂ < 8kPa on any FIO₂
• Multi-lobe change on CXR
CURB 65 score may overestimate CAP severity in the elderly therefore correlate with sepsis criteria.

Clostridioides difficile infection associated with prescribing of:
Cephalosporins, Co-amoxiclav, Clindamycin, and Quinolones (Ciprofloxacin, Levofloxacin)

IV THERAPY WITHIN ONE HOUR IS REQUIRED FOR SEPSIS OR OTHER SEVERE INFECTIONS

SEPSIS: (includes Systemic Inflammatory Response Syndrome (SIRS*)) Infection WITH evidence of ORGAN HYPOPERFUSION \geq 2 of:
Confusion GCS $<$ 15, **Resp rate** \geq 22/min, **Systolic BP** \leq 100mm Hg.
*SIRS indicated by Temp < 36°C or > 38°C, HR > 90 bpm, RR > 20/min & WCC < 4 or > 12 x 10⁹/L. SIRS is not specific to bacterial infection (also viral and non-infective causes).
NEUTROPENIC SEPSIS: Neutropenic (<0.5 x 10⁹ neutrophils/L) **PLUS EITHER Pyrexial** (temperature > 38°C) **OR Apyrexial & Clinically unwell** (symptoms may include fever, sweats, chills, rigors, malaise, respiratory rate > 20/min, HR > 90 bpm).
ENSURE Sepsis 6 within ONE HOUR: 1. Blood cultures (& any other relevant samples). 2. IV antibiotic administration. 3. Oxygen to maintain target saturation. 4. Measure Lactate. 5. IV fluids. 6. Monitor urine output hourly.

Appropriate microbiological sampling prior to antibiotics is essential.
Obtain blood cultures (8 - 10ml / bottle) & other appropriate samples e.g. urine, sputum, CSF, wound swab.

Lower Respiratory Tract Infections

Community Acquired Pneumonia (CAP)
SEVERE CURB65⁶ 3-5 Or SEPSIS
IV Amoxicillin 1g 8 hrly
If treated previously or adverse prognostic features
IV Co-amoxiclav¹⁰ 1.2g 8hrly

Penicillin allergy
Oral Levofloxacin^{1,2,8,9,10,12} 500mg 12 hrly
Total duration (IV/oral) 5 days
NON-SEVERE CURB65⁶ \leq 2
Oral Amoxicillin 500mg -1g 8 hrly

Penicillin allergy or alternative required
Oral Doxycycline^{2,9} 200mg stat then 100mg daily
Total duration 5 days

Atypical Pneumonia
ONLY if suspected Atypical Pneumonia
ADD
Oral Clarithromycin¹ 500mg 12 hrly (If pregnant Oral Erythromycin¹ 500mg 6 hrly)
To Amoxicillin or Co-amoxiclav therapy
Doxycycline & Levofloxacin cover atypical pneumonia organisms
Risk factors Include:
• Returning travellers
• Bird or animal exposure

Confirmed Legionella Pneumonia
Oral Levofloxacin^{1,2,8,9,10,12} 500mg 12 hrly
Total duration (IV/oral) minimum 7 days; longer duration may be required in severe disease or immunocompromised

Infective Exacerbation COPD
SEVERE exacerbation of COPD with pneumonia
Follow SEVERE CAP guidance.
MILD/MODERATE Infective exacerbation of COPD
Antibiotics only if purulent sputum (send for culture along with viral throat swab)
Oral Amoxicillin 500mg-1g 8 hrly
Penicillin allergy or alternative required
Oral Doxycycline^{2,9} 200mg stat then 100mg daily **OR**
Oral Clarithromycin¹ 500mg 12 hrly
Total duration 5 days

Suspected COVID-19 pneumonia ONLY
Antibiotics are rarely indicated as bacterial co-infection is uncommon in COVID-19 pneumonia.
Bacterial co-infection is suggested if purulent (green/brown) sputum.

Uncertain if LRTI/ UTI
Send MSSU, sputum & viral throat swab **DO NOT** prescribe Co-amoxiclav
Treat separately as per appropriate section of empiric policy
Review/clarify diagnosis at 48 hours

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Urinary Tract Infections

Upper UTI (UUTI) / Pyelonephritis
IV Gentamicin³
+IV Amoxicillin 1g 8hrly
Penicillin allergy
IV Gentamicin³
+ IV Vancomycin³
Total duration (IV/oral) 7-10 days
Consult IVOST policy
Men Consider prostate involvement and urology referral

Lower UTI
• Do not treat asymptomatic bacteriuria in non-pregnant adults
• Send urine culture
Nitrofurantoin M/R 100mg 12 hrly (Contraindicated if CrCl <30ml/min, caution in CrCl 30 - 44ml/min)⁷
OR
Trimethoprim^{10,11} 200mg 12 hrly
Total duration Women 3 days, Men 7 days

Catheterised patients
Only treat if systemically unwell or pyelonephritis likely.
• Remove or replace catheter
• Send pre-treatment CSU
• Start empirical antibiotics
Start antibiotics as guided by recent CSU's or empirically as above if there are no positive cultures
Total duration 7 days

Aspiration Pneumonia
IV Amoxicillin 1g 8 hrly
+ IV Metronidazole 500mg 8 hrly
If severe ADD IV Gentamicin³
Penicillin allergy
IV Vancomycin³
+ IV Metronidazole 500mg 8 hrly
If severe ADD IV Gentamicin³
Total duration (IV/oral) 5 days

Staphylococcal Pneumonia suspected
Treat as per SEVERE CAP
+ IV Flucloxacillin⁵ 1g 6hrly
Penicillin allergy or MRSA suspected
Treat as per SEVERE CAP
+ IV Vancomycin³
Total duration (IV/oral) - seek advice from Infection Specialist, if appropriate, in working hours

Doses may need to be adjusted in renal impairment
Always check BNF for interactions
Seek advice if patient pregnant

1. Check interactions in the BNF. Caution may prolong QT interval.
2. Avoid / Caution in pregnancy or breastfeeding. Consult BNF for details.
3. Gentamicin / Vancomycin refer to online calculators.
4. ALERT Antibiotic - Consult Second line Policy on NHS Lanarkshire Guideline App.
5. Monitor sodium.
6. See CURB65 definition above.
7. Reference: The Renal Drug Handbook 5th Edition, 2018. Online access.
8. See Fluoroquinolones MHRA guidance on NHS Lanarkshire Guidelines App.
9. Doxycycline and quinolones decreased absorption with iron, calcium, magnesium and some nutritional supplements. See BNF appendix 1 or pharmacy for advice.
10. Caution in renal impairment – see BNF or pharmacy for advice.
11. Use with caution may increase K+ and decrease renal function. Monitor.
12. High / Excellent oral bioavailability, IV route available for NBM or vomiting.
13. See Co-trimoxazole information for prescribers' safety sheet on NHS Lanarkshire Guidelines App.

Skin/Soft Tissue Infections

Moderate to severe Cellulitis/Erysipelas
IV Flucloxacillin^{5,10} 1-2g 6 hrly
Penicillin allergy or MRSA suspected
IV Vancomycin³
Total duration IV / oral 7-14 days depending on clinical progress
For upper limb cellulitis seek advice from Orthopaedics

Mild-moderate Cellulitis
Oral Flucloxacillin⁵ 500mg - 1g 6 hrly
Penicillin allergy
Oral Doxycycline^{2,9} 100mg 12 hrly **OR**
Oral Co-trimoxazole^{2,10,12,13} 960mg 12 hrly
Total duration 5 days

Suspected Necrotising Fasciitis or severe or rapidly progressive infection in Person who injects drugs (PWID)
• Seek URGENT Surgical / Orthopaedic review. URGENT DEBRIDEMENT / EXPLORATION may be required
• TAKE blood cultures & COMMENCE empirical antibiotics as per policy
• LIAISE with Infection Specialist.
IV Flucloxacillin^{5,10} 2g 6 hrly
+ IV Benzylpenicillin 2.4g 4 hrly
+ IV Gentamicin³
+ **Oral** / IV Metronidazole¹² 400mg / 500mg 8 hrly
+ IV Clindamycin 1.2g 6 hrly
True Penicillin allergy or MRSA suspected
+ IV Vancomycin³
+ IV Gentamicin³
+ **Oral** / IV Metronidazole¹² 400mg / 500mg 8 hrly
+ IV Clindamycin 1.2g 6 hrly
Total duration 10 days or as per Infection Specialist

Post Septal/Orbital Cellulitis
This is an emergency. Seek immediate specialist advice from Ophthalmology & ENT. Consider CT imaging & drainage
IV Ceftriaxone 2g 24 hrly (or 12 hrly if intracranial extension)
+ IV Flucloxacillin^{5,10} 1-2g 6 hrly
+ **Oral** / IV Metronidazole¹² 400mg / 500mg 8 hrly
Penicillin intolerance/minor Penicillin allergy (see below for severe penicillin allergy/anaphylaxis)
IV Ceftriaxone 2g 24 hrly (or 12 hrly if intracranial extension)
+ **Oral** / IV Metronidazole¹² 400mg / 500mg 8 hrly
Clear history of anaphylaxis with Penicillin or severe/true Penicillin allergy
IV Vancomycin³
+ IV Ciprofloxacin^{1,2,8,9,10} 400mg 12 hrly
+ **Oral** / IV Metronidazole¹² 400mg / 500mg 8 hrly

Pre Septal/Periorbital Cellulitis
Oral Flucloxacillin⁵ 1g 6 hrly
Penicillin allergy
Oral Clindamycin¹² 450mg – 600mg 6 hrly (depending on the severity)
Total duration Mild - 5 days. Severe - 7 days

Infected human/animal bite

Consider risk of BBV transmission
Consider Tetanus prophylaxis
SEVERE bite
Consider Surgical review
IV Co-amoxiclav¹⁰ 1.2g 8 hrly
True Penicillin allergy
IV Vancomycin³
+ Oral Metronidazole¹² 400mg 8 hrly
+ Oral Ciprofloxacin^{1,2,8,9,10,12} 500mg 12 hrly
Total duration (IV / oral) 7 days
NON-SEVERE bite
Oral Co-amoxiclav 625mg 8 hrly
True Penicillin allergy
Oral Doxycycline^{2,9} 100mg 12 hrly
+ Oral Metronidazole¹² 400mg 8 hrly
Total duration 5 days (treatment), 3 days (prophylaxis)

Spontaneous Bacterial Peritonitis
If Peritoneal white cell count > 500/mm³ (> 0.5 x 10⁹/L) or neutrophils >250/ mm³ (> 0.25 x 10⁹/L)
OR
Decompensated Chronic Liver disease with Sepsis unknown source
IV Piperacillin / Tazobactam^{4,10} 4.5g 8 hrly
Penicillin allergy
Oral / IV Ciprofloxacin^{1,2,8,9,10,12} 500mg / 400mg 12 hrly
+ IV Vancomycin³
Total duration (IV/oral) 7 days

Gastroenteritis
Antibiotics not usually required

Clostridioides difficile infection
• Stop/simplify concomitant antibiotic(s)
• Review/ stop gastric acid suppression and antimotility agents
• Review NSAID/ACE/ARB/diuretic agents
• Clinical or radiological evidence of severe colitis.
Oral Vancomycin 125mg 6 hrly
Total duration 10 days
Recurrence / Relapse / Ineffective treatment
Refer to NICE/SAPG Guidance/ Consult local IPCT CDAD guidance.

Intra-abdominal/Hepatobiliary/Pelvic Sepsis

IV Amoxicillin 1g 8 hrly
+ **Oral** / IV Metronidazole¹² 400mg / 500mg 8 hrly
+ IV Gentamicin³
Penicillin allergy
IV Vancomycin³
+ **Oral** / IV Metronidazole¹² 400mg / 500mg 8 hrly
+ IV Gentamicin³
Total duration 7-10 days
Give all 3 recommended antibiotics otherwise the regimen may be ineffective

Septic Arthritis-Native or Prosthetic Joint infection
Obtain blood cultures and ideally also obtain synovial fluid / deep tissue samples prior to antibiotic therapy.
Native Joint
IV Flucloxacillin^{5,10} 2g 6 hrly
+/- *** IV Gentamicin³
Penicillin allergy or MRSA suspected
IV Vancomycin³
+/- *** IV Gentamicin³
Prosthetic Joint
IV Vancomycin³
+/- *** IV Gentamicin³
Total duration
Liaise with Orthopaedics
***if high risk for Gram negative bacterial infection i.e. immunocompromised, recurrent UTI or sickle cell disease.

Diabetic Foot Infection
Notify Diabetologist at first opportunity. Send specimen for culture and review previous microbiology.
SEVERE infection
IV Flucloxacillin^{5,10} 2g 6 hrly
+ IV Clindamycin 600mg 6 hrly
+ IV Gentamicin³
Penicillin allergy or MRSA suspected
IV Vancomycin³
+ IV Clindamycin 600mg 6 hrly
+ IV Gentamicin³
MODERATE infection
IV Flucloxacillin^{5,10} 2g 6 hrly
+ IV Metronidazole¹² 500mg 8 hrly
Penicillin allergy
Oral / IV Co-trimoxazole^{2,10,12,13} 960mg 12 hrly
+ Oral Metronidazole 400mg 8 hrly
OR
Oral Clindamycin¹² 450mg 6hrly
Total duration - Liaise with Diabetologist

All indications - Total duration 4 – 6 weeks liaise with Infection Specialist and consider OPAT

Acute Osteomyelitis including Discitis

Ensure blood cultures are taken promptly (minimum 2 sets) prior to starting treatment
IV Flucloxacillin^{5,10} 2g 6 hrly
Penicillin allergy
IV Vancomycin³
Total duration
Liaise with Neurosurgery/ Orthopaedics

Septic Arthritis-Native or Prosthetic Joint infection
Obtain blood cultures and ideally also obtain synovial fluid / deep tissue samples prior to antibiotic therapy.
Native Joint
IV Flucloxacillin^{5,10} 2g 6 hrly
+/- *** IV Gentamicin³
Penicillin allergy or MRSA suspected
IV Vancomycin³
+/- *** IV Gentamicin³
Prosthetic Joint
IV Vancomycin³
+/- *** IV Gentamicin³
Total duration
Liaise with Orthopaedics
***if high risk for Gram negative bacterial infection i.e. immunocompromised, recurrent UTI or sickle cell disease.

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Penicillin allergy
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+ Oral Metronidazole 400mg 8 hrly
OR
Oral Clindamycin¹² 450mg 6hrly
Total duration - Liaise with Diabetologist

Possible Bacterial Meningitis
IV Ceftriaxone 2g 12hrly
+ IV Dexamethasone 10mg 6hrly for first 4 days
If listeria meningitis suspected + IV Amoxicillin¹⁰ 2g 4hrly
If penicillin resistant pneumococcus suspected
+ IV Vancomycin³
Penicillin intolerance/minor Penicillin allergy (see box below for severe penicillin allergy/anaphylaxis)
IV Ceftriaxone 2g 12hrly
+ IV Dexamethasone 10mg 6hrly for first 4 days
If listeria meningitis suspected + IV Co-trimoxazole^{2,10,12,13} 120mg/kg/day (split into 2-4 divided doses). (Adjust regimen dose/ frequency to allow simplest administration of 480mg/5ml vials)
If penicillin resistant pneumococcus suspected
+ IV Vancomycin³
Clear history of anaphylaxis with Penicillin or severe/true Penicillin allergy
IV Vancomycin³
+ IV Ciprofloxacin^{1,2,8,9,10,12} 400mg 12hrly (high oral bioavailability - consider switch at 24 hours)
+ IV Gentamicin³
Consider fungal infection

Clear history of anaphylaxis with Penicillin or severe/true Penicillin allergy
IV Chloramphenicol 25mg/kg (max 2g) 6 hrly
ONLY on advice of treating Consultant
+ IV Dexamethasone 10mg 6 hrly for first 4 days
If listeria meningitis suspected + IV Co-trimoxazole^{2,10,12,13} 120mg/kg/day (split into 2-4 divided doses). (Adjust regimen dose/ frequency to allow simplest administration of 480mg/5ml vials)

Listeria Meningitis
may be suspected if over 60yrs, immunocompromised (including diabetic, alcohol excess, liver disease, pregnancy)
Total duration
(if clinically recovered)
- Meningococcal – 5 days
- Pneumococcal – 10 days
- Listeria – 21 days
- No pathogen - 10 days

Possible Encephalitis
+ IV Aciclovir¹⁰ 10mg/kg 8 hrly
Use adjusted body weight if BMI \geq 30.
AdjBW = IBW + 0.4 (actual body weight – IBW)
Total duration 10-14 days

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Total duration 10-14 days

In pregnancy - Consultant responsible for patient to discuss with Infection Specialist if required.
- Amoxicillin not known to be harmful
- Ceftriaxone & Vancomycin - Manufacturer advises use only if benefit outweighs risk
- Chloramphenicol advised to avoid.
- Co-trimoxazole – teratogenic risk in 1st trimester & neonatal haemolysis & methaemoglobinemia in 3rd trimester.

IV Amoxicillin 1g 8 hrly
+ **Oral** / IV Metronidazole¹² 400mg / 500mg 8 hrly
+ IV Gentamicin³
Penicillin Allergy or MRSA suspected
IV Vancomycin³
+ **Oral** / IV Metronidazole¹² 400mg / 500mg 8 hrly
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Give all 3 recommended antibiotics otherwise the regimen may be ineffective

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IV Vancomycin³
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+ IV Gentamicin³
Give all 3 recommended antibiotics otherwise the regimen may be ineffective

Neutropenic Sepsis or Immunocompromised

If Haematology/Oncology patient discuss with appropriate specialist
NB Check previous microbiology results and TrakCare ALERTs for evidence of multidrug resistant organisms and seek advice from infection specialist.

IV Piperacillin/Tazobactam^{4,10} 4.5g 6 hrly
+ IV Gentamicin³
Consider for indwelling line
ADD IV Vancomycin³
Consider fungal infection

Penicillin intolerance/minor Penicillin allergy (see box below for severe penicillin allergy/anaphylaxis)
IV Vancomycin³
+ IV Aztreonam¹⁰ 2g 6 hrly
+ IV Gentamicin³
Consider fungal infection

Clear history of anaphylaxis with Penicillin or severe/true Penicillin allergy
IV Vancomycin³
+ IV Ciprofloxacin^{1,2,8,9,10,12} 400mg 12hrly (high oral bioavailability - consider switch at 24 hours)
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