

# Adult Empirical Treatment of Infection Guidelines for Renal Patients

When male and female are stated within this policy, it refers to sex assigned at birth

## NEWS2 ≥5 and INFECTION: THINK SEPSIS

### DOSING (unless stated)

Clarithromycin\*  
Gentamicin  
Doxycycline  
Vancomycin  
Metronidazole  
Flucloxacillin  
Pivmecillinam

### ORAL

500mg bd  
n/a  
See indication  
only for C.difficile  
400mg tds  
1g qds  
400mg stat then 400mg tds

See Renal Drug Handbook

### IV

500mg bd  
See renal protocol  
n/a  
See Renal protocol  
500mg tds  
1g qds  
n/a

Amoxicillin, Aztreonam, Co-amoxiclav, Levofloxacin, Temocillin, Co-trimoxazole

\* consider risk of prolonged QT interval & interactions e.g. statins, Tacrolimus

Always document indication and duration in medical notes and on medicine chart

### CURB 65

Confusion - new  
Urea > 7  
Resp rate ≥30  
BP systolic <90 diastolic <60  
65 – age ≥65

Clinical condition	Antibiotic(s)	Comments
<b>CNS</b>		
Meningitis	Ceftriaxone IV 2g bd + Dexamethasone IV 10mg qds for 4 days started with or just before first dose of antibiotics Add Amoxicillin 2g IV 4 hourly (1g if CrCl <10ml/min or on HD) Add Aciclovir IV (See Renal Drug Handbook for dosing)	See full CNS guidance
If ≥ 60 years or immunocompromised If encephalitis suspected		
<b>Respiratory</b>		
Infective Exacerbation of COPD	Give antibiotics if ↑ sputum purulence. If no ↑ sputum purulence, then no antibiotics unless consolidation on CXR or signs of pneumonia. 1 <sup>st</sup> LINE Amoxicillin 500mg tds 2 <sup>nd</sup> LINE Doxycycline 200mg on day 1 then 100mg od	5 days
<a href="#">Community Acquired Pneumonia</a> <b>Non Severe</b> (CURB 65 Score 0-2)	Amoxicillin 1g tds ORAL OR Doxycycline 200mg on day 1 then 100mg od If NBM (assess daily for oral/NG access) : IV amoxicillin 1g tds or IV clarithromycin* 500mg bd	5 days
<a href="#">Community Acquired Pneumonia</a> <b>Severe</b> (CURB 65 Score ≥3)	IV Co-amoxiclav + Doxycycline 100mg bd (if NBM replace doxycycline with IV clarithromycin* 500mg bd) <b>OR</b> IV Levofloxacin monotherapy if true penicillin allergy Step down to Doxycycline 100mg bd for all patients with severe CAP	Total IV/PO 5 days
<a href="#">Hospital Associated Pneumonia</a> <b>Non Severe</b>	Amoxicillin 1g tds ORAL OR Doxycycline 200mg day 1 then 100mg daily If NBM (assess daily for oral/NG access): IV amoxicillin 1g tds or IV clarithromycin* 500mg bd	5 days
<a href="#">Hospital Associated Pneumonia</a> <b>Severe</b>	IV Amoxicillin 1g tds + Aztreonam <b>or Gentamicin: discuss with nephrologist</b> Step down to ORAL Co-amoxiclav 625mg tds or seek ID/micro advice in true penicillin allergy	Total IV/PO 5 days
<a href="#">Aspiration Pneumonia</a> <b>Non Severe</b>	Amoxicillin 1g tds ORAL OR Doxycycline 200mg day 1 then 100mg daily If NBM (assess daily for oral/NG access): IV amoxicillin 1g tds or IV clarithromycin* 500mg bd	5 days
<a href="#">Aspiration Pneumonia</a> <b>Severe</b>	IV Amoxicillin 1g tds + Aztreonam <b>or Gentamicin: discuss with nephrologist.</b> Step down to ORAL amoxicillin 1g tds or doxycycline 100mg bd	Total IV/PO 5 days
<b>Heart</b>		
Endocarditis ( <a href="#">See full Guidance</a> )	Modify according to dialysis status. See <a href="#">full guidance</a> on Tayside Area Formulary.	
<b>GI</b>		
C.difficile Treatment Recurrence of C.Diff	<a href="#">See guidance</a> <a href="#">See guidance</a>	
Non PD Peritonitis/Biliary Tract /Intra-abdominal	IV Amoxicillin + Metronidazole + Aztreonam <b>or Gentamicin: discuss with nephrologist.</b> Step down to ORAL Co-trimoxazole + Metronidazole (2 <sup>nd</sup> line seek ID/Micro advice) Pen allergic: Vancomycin IV + Metronidazole IV + Gentamicin or Aztreonam: <b>discuss with nephrologist</b>	Total IV/PO 7 days
PD Peritonitis	See Renal PD Peritonitis Protocol	
<b>GU</b>		
Uncomplicated UTI female	See <a href="#">UTI in CKD</a> policy	3 days
Uncomplicated UTI male	See <a href="#">UTI in CKD</a> policy	7 days
Complicated UTI /Pyelonephritis / Urosepsis	IV Amoxicillin + Aztreonam or Temocillin if ESBL <b>or Gentamicin: discuss with nephrologist</b> (Penicillin allergic: Seek ID/Micro advice) Step down as per microbiology sensitivities *In patients who have polycystic kidney disease, have stents in place or who have a nephrostomy in situ – duration MAY need to be extended. Please discuss with consultant.	7 days*
<b>Bone and Skin</b>		
Cellulitis	Flucloxacillin 1g qds IV/ORAL (Penicillin allergic: Doxycycline 100mg bd)	5-7 days
Septic Arthritis / Osteomyelitis	Flucloxacillin IV (Seek ID advice)	
Diabetic Foot Infection : <b>Mild</b> <b>Moderate</b>	Flucloxacillin 1g qds ORAL or Doxycycline 100mg bd Flucloxacillin 1g qds ORAL + Metronidazole 400mg tds Penicillin allergy: Doxycycline 100mg bd + Metronidazole 400mg tds	7 days
<b>Unknown Source</b>		
Severe systemic infection source unknown	IV Amoxicillin + IV Metronidazole + Aztreonam <b>or Gentamicin: discuss with nephrologist</b> Add flucloxacillin or vancomycin if concern re staphylococci. See <a href="#">MSSA/MRSA Renal Policy</a> Penicillin allergic: Vancomycin IV + Metronidazole IV + Gentamicin or Aztreonam: ( <b>discuss with nephrologist</b> )	
<b>Line Infections</b>		
Renal dialysis lines e.g. tunnelled lines, CVC	See renal line infection guideline	