

BROAD SPECTRUM ANTIBIOTICS ID GUIDELINES

1 st line	piperacillin-tazobactam (Tazocin®)	
usual dose	4.5g IV q8h	\$17.52/day
for pseudomonas/ neutropenic sepsis	4.5g IV q6h	\$23.36/day
for renal impairment (<20mL.min)	reduce to q12h	\$11.68/day
2 nd line	meropenem	
usual dose	500mg IV q6h	\$42.00/day
for UTI	500mg IV q8h	\$31.50/day
for renal impairment		
(25 – 49mL.min)	reduce to q8h	
(10-24mL.min)	reduce to q12h	
for CNS infection	2g IV q8h	\$126.00/day
for pseudomonas/ neutropenic sepsis	1g IV q6h	\$84.00/day
OPIVA 2 inpatient doses only		ertapenem
usual dose	1g IV q24h	\$70.00/day
for renal impairment (<10mL.min)	500mg IV q24h	\$70.00/day

January 2014

broad spectrum antibiotic therapy including antipseudomonal penicillinbeta lactamase inhibitor combinations and carbapenem classes of antimicrobials

FULL DOSING INFORMATION

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1st line

piperacillin-tazobactam (Tazocin®)

4.5g IV q8h \$17.52/day

for pseudomonas/neut. sepsis

4.5g IV q6h \$23.36/day

for renal impairment (<20ml.min)

reduce to q12h \$11.68/day

for filtration in intensive care 4.5g IV q6h \$23.36/day

2nd line

meropenem 500mg IV q6h \$42.00/day
for UTI 500mg IV q8h \$31.50/day
for renal impairment (25-49ml.min) reduce to q8h - reduce to q12h for pseudomonas/neut. sepsis 1g IV q6h \$84.00/day
for CNS infection 2g IV q8h \$126.00/day

for HD/CAPD 500mg IV q24h \$10.50/day

1g IV q12h \$42.00/day

Only based on sensitivities (rarely necessary)

for filtration in intensive care

ticarcillin-clavulanic acid

3.1g IV q6h \$72.64/day

for renal impairment (<30ml.min)

reduce to q8h \$54.48/day

imipenem-cilastatin

500/500mg IV q6h \$73.48/day

for renal impairment (20-30ml.min) reduce to q8h \$55.11/day
for renal impairment (<20ml.min) reduce to q12h \$36.74/day

OPIVA only: max 2 doses pre discharge

 ertapenem
 1g IV q24h \$70.00/day

 for renal impairment (<10ml.min)</th>
 500mg IV q24h \$70.00/day

PRESCRIBING GUIDANCE ON CARBAPENEMS

Dosage

For the majority of infections; meropenem and imipenem doses are interchangeable. Increased doses are required for when host defences are diminished, for particular organisms or when an infection is in a particular site, for example increased doses are required for neutropenic sepsis, for Pseudomonas infection and infections involving the CNS.

Continuous infusion

Continuous infusion is not recommended due to limited stability. However, 3 hour mini-infusions may be useful for PK/PD benefits when treating MROs with elevated MICs.

OPIVA

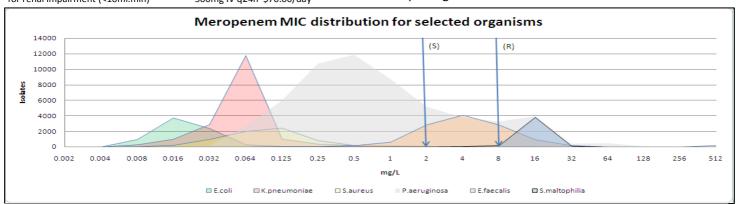
If intermittent administration is not possible, ertapenem guided by susceptibility may be appropriate for OPIVA in which case 2 doses can be administered in hospital for stabilization.

Indication

Empiric therapy of infection due to MRO: note that in most cases ESCAPM† can reliably be treated with another choice of antibiotic such as an extended-spectrum penicillin or for non critical infection a short course of cephalosporin, such as cefuroxime or ceftriaxone.

Duration

The duration of therapy should be minimised and documented in the notes and on the National Medication Chart. Empiric treatment should be reviewed after 48 – 72 hours. If all cultures and the MRO screen are negative, broad spectrum therapy can usually be de-escalated. If cultures are positive therapy should be narrowed to cover the pathogen.



References: 1. Kuti et al. Am J Health-Syst Pharm. 2003; 60;565-8. 2. EUCAST MIC distributions accessable via http://mic.eucast.org/Eucast2/

[†]Enterobacter, Serratia, Citrobacter, Acinetobacter, Proteus & Morganella