

Table 1. Pharmacokinetics

	Ertapenem	Ampicillin/ sulbactam	Piperacillin/ tazobactam	Ticarcillin/ clavulanate	Imipenem/ cilastatin	Cefotaxime	Metronidazole
Protein binding	85% -95%	28% -38%	30%	45%-65%	20% -40%	27% -38%	<20%
Half-life	4 hours	1.5 hours	0.7-1.2 hours	2-2.7 hours	1 hour	1-1.5 hours	8 hours
Usual dosing schedule	QD	QID	QID	QID	QID	TID-QID	TID
Pregnancy category	B	B	B	B	C	B	B if not 1st trimester
Distribution into breast milk	Yes, but significance unknown	Yes, low concentration; use caution	Yes, low concentration; use caution	Unknown; use caution	Unknown; use caution	Yes, low concentration	Yes
Significant distribution into CSF*	No	Possibly in the presence of inflamed meninges	Possibly in the presence of inflamed meninges	No	Yes: 0.5 – 11 mcg/mL	Yes: 1 - 15 mcg/ml	No
Vd	8.2 L	0.360 L/kg	10-16 L	20.3 L	0.41 L/kg	32-37 L	0.25 0-0.85 L/kg
Metabolism	Negligible	Negligible (10%)	Liver: partially; one inactive metabolite	Liver: extensive; two inactive metabolites	Kidney: extensive; one inactive metabolite	Liver: two inactive metabolites	Liver: extensive; one active, one inactive
Excretion	Renal: 80% Feces: 10%	Renal: 75%-85% Bile: 2.8%	Renal: 50%-60% Bile: <5%	Renal: 60% -77%	Renal: 50% -70% Bile: <1%	Renal: 50% -85%	Renal: 60%-80% Feces: 6%-15%

* Cerebrospinal fluid