Table 2			
Pharmacologic, Pharmokinetic, Clinical Properties of Doripenem			
Brand/Generic	Doribax™ (Doripenem)		
	ICarbapenem B-lactam		
Mechanism of Action	Innibits bacterial cell wall synthesis and causes cell death by binding to and inactivating penicillin-bi	naing	
Spectrum of Activity	Aerobic facultative gram-negative microorganisms		
	- Acinetobacter baumannii, Escherichia coli, Klebsiella pneumoniae, Proteus mirabilis, Pseudomo	onas	
	aeruginosa		
	Aerobic and facultative gram-positive microorganisms		
	Streptococcus constellatus, Streptococcus intermedius		
	- Bacteroides caccae Bacteroides fracilis Bacteroides thetaiotaomicron Bacteroides uniformis Bacteroides		
	vulgatus. Peptostreptococcus micros	Daciciolaco	
EDA Indications	Complicated Intra-Abdominal Infections		
	Complicated Urinary Tract Infections, Including Pyelonephritis		
	NDA submitted for use in nosocomial and ventilator-associated pneumonia		
Dharmaaakinatiaa	For complicated intra-abdominal infections and complicated urinary tract infections (UTI), including		
Pharmacokinetics	Half-life Biliary/fecal Recovered unchanged Vd (L) Protein Hepatic Metabe	olis	
	excretion in urine Bound		
	1h <1% 70% of total dose as 16.8 8.1% Minimal; inactive ring unchanged dorinenem metabolite (dorinener	J-opened n-M1) via	
	dehydropeptida	se-l	
Dosage			
	pyelonephritis in patients 18 years and older:		
	Becommended duration of treatment for complicated intra-abdominal infections: 5-14 days		
	<ul> <li>Recommended duration of treatment for complicated UTI, including pyelonephritis: 10-14 days</li> </ul>		
	• A switch to oral therapy is possible after 3 days of IV therapy if patient displays clinical improvem	ent.	
Dosage Adjustment	Renal		
	<ul> <li>CrCl &gt; 50 ml/min: No dose adjustment required</li> </ul>		
	CrCl 30-50 ml/min: 250 mg IV (over 1 hour) every 8 hours		
	• CrCi 10-30 mi/min: 250 mg iv (over 1 hour) every 12 hours	nte	
	Hepatic		
	No dosage adjustment is required.		
Monitoring Requirements	Serum creatinine/BUN		
Contraindications	• Previous hypersensitivity to doripenem, to other drugs in same class, or in patients who have had	ł	
Dress, disco Alleraines	naphylactic reactions to beta-lactams		
Precautions/warnings	II • Hypersensitivity reaction - Serious and tatal hypersensitivity reactions are reported with B-lactam		
	allergic reaction occurs, discontinue drug immediately and consider emergency measures if natie	nt is under-	
	going anaphylaxis.		
	• Clostridium difficile-associated Colitis - Ranges in severity from mild to fatal. Patients who de	velop diar-	
	rhea should be monitored.		
	• Seizures - May reduce serum valproic acid concentration resulting in loss of seizure control. More	nitor serum	
Advaraa Effacta	valproic acid levels more frequently.		
Auverse Ellects	Headache (4-16%)		
	<ul> <li>Nausea (4-12%)</li> </ul>		
	• Diarrhea (6-11%)		
	• Rash (1-5%)		
	Phlebitis (4-8%)		
Drug Interactions	<ul> <li>Carbapenem antibiotics may cause a clinically significant reduction in serum valproic concentration</li> </ul>	ons and	
	may prevent seizure control. • Probanacid may interfere with tubular secretion of derivation mesulting in increased plasma conce	ontration	
	and AUC (75%) and prolonging the half-life of Doripenem	Sillation	
How Supplied	Single-use clear glass vials containing 500mg of sterile doripenem powder		
Storage/Administration	Storage		
	• Prior to reconstitution, store vial at 250C (770 F); excursions permitted to 150 to 300 C (590 to 85	50 F)	
	Diluted IV infusion can be stored at room temperature for 8h if prepared in normal saline or for 4h	ו if pre-	
	pared in 5% dextrose (D5W) and retrigerated (20 to 80 C (360 to 460F)) for up to 24h		
	Administration		
	Withdraw the reconstituted suspension and add to a 100 ml. NS or D5W bag (maximum concentre)	ration: 4.5	
	mg/mL)	adon. 1.0	
	Infuse over 1 hour		

## Table 2...continued from previous page

## Pharmacologic, Pharmacokinetic, Clinical Properties of Doripenem

Pregnancy Category	Pregnancy category B	
	Excretion in human milk is unknown. Use caution in nursing women.	
Lactation	• Doripenem 500 mg IV Q 8h = \$114.99	
Daily Cost <sup>a</sup>	<ul> <li>Imipenem/Cilistatin 500 mg IV Q 6 h to 1 g IV Q 8h \$103.16-\$154.74</li> </ul>	
	<ul> <li>Meropenem 500 mg - 1 g IV Q 8h = \$62.55 - \$125.10</li> </ul>	
	• Ertapenem 1 g IV Q 24 = \$44.46	
<sup>a</sup> Wholesale and novation pricing information accessed on February 26, 2008 (from Purchasing Department at Santa Clara Valley Medical Center, San Jose, CA		