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Abstract (poster session)

Susceptibility of Enterococcus species including vancomycin-resistant phenotypes: Asia/Pacific, 2006-2010

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Background: Enterococcus faecium and E. faecalis are significant pathogens both in community and hospital patients. The increasing prevalence of vancomycin-resistant Enterococcus spp. (VRE) worldwide dictates the continued monitoring of these phenotypes. The Tigecycline Evaluation and Surveillance Trial (TEST) has monitored the activity of tigecycline and comparators globally since 2004. Methods: 43 sites in 10 Asia/Pacific countries collected 1004 E. faecalis and E. faecium isolates between 2006 and 2010. MICs were performed as specified by CLSI at each site using prepared broth microdilution panels and interpreted according to CLSI/FDA guidelines. Linear trends over time in % susceptible/resistant were assessed with the Cochran-Armitage test. Results: In 2006-10, 2 of 613 E. faecalis (0.3%) and 86 of 391 E. faecium (22%) were vancomycin-resistant. The overall VRE rate increased from 7% to 9% between 2006 and 2010, however this trend was not statistically significant ($p>0.05$). The in vitro activity of 5 agents are shown in the following table for 2006 and 2010 only, although the statistical test was applied to all 5 years studied. Note: No statistically significant trends in % susceptible were found for any agents studied ($p>0.05$). Conclusions: Tigecycline demonstrated potent in vitro activity against E. faecalis and E. faecium isolates including vancomycin-resistant phenotypes with 100% of isolates remaining susceptible in 2010 and an MIC₉₀ of 0.12-0.25 mg/L that was unchanged between 2006 and 2010.

Drug	MIC ₉₀ (mg/L) / % Susceptible					
	<i>E. faecalis</i>		<i>E. faecium</i>		VRE	
	2006	2010	2006	2010	2006	2010
Ampicillin	1/100	2/100	>16/11.5	>16/10.7	>16/0	>16/0
Levofloxacin	>32/62.5	32/72.0	>32/10.3	>32/5.4	>32/0	>32/0
Penicillin	4/100	4/98.8	>8/14.9	>8/10.7	>8/5.9	>8/0
Tigecycline	0.25/100	0.25/100	0.12/100	0.25/100	0.12/100	0.12/100
Vancomycin	2/98.6	2/100	>32/80.5	>32/78.6	>32/0	>32/0
n	144	82	87	56	17	12