Document Type Document Title	: Thesis : <u>EPIDEMIOLOGY AND ANTIBIOTIC SENSITIVITY OF VANCOMYCIN-</u> <u>RESISTANT AND SENSITIVE Enterococcus spp. ISOLATED FROM TWO</u> <u>HOSPITALS IN JEDDAH</u> <u>و</u> بائية بكتيريا المكور ات المعوية المقاومة و الحساسة للفانكو مايسين و المعز ولة من مستشفيين بمحافظة جدة <u>و</u> حساسيتها للمضادات الحيوية
Document	: Arabic
Abstract	: In this study, the epidemiology and sensitivity of vancomycin-resistant enterococci (VRE) and vancomycin-intermediate enterococci (VIE) strains to different antimicrobials has been studied in two hospitals in Jeddah; King Abdulaziz University Hospital (KAUH) and King Fahad Hospital (KFH) during the period from 1 July 2005 G to 1 December 2005 G. In KAUH the resistance percentage for high-and low-concentrations of vancomycin were 2.7% and 27.3% respectively during the study period. All VRE strains were isolated from the Intensive Care Unit (ICU). Regarding the VIE strains, 24.5% of the strains were isolated from ICU and 2.7% were isolated from Renal Dialysis Unit (RDU). The isolates were identified by Vitek 2 system and found to consist of E. faccalis (40.54%), E. faecium (12.6%), E. gallinarum (27.9%), E. casseliflavus (10.8%), E. durans (3.6%), E. hirae (2.7%) and E. avium (1.8%). In KFH the resistance percentage for high-and low-concentrations of vancomycin were 1.7% and 32.2% respectively during the study period. All VRE strains were isolated from ICU. Regarding the VIE strains, 30.5% of the strains were isolated from ICU and 1.7% were isolated from RDU. The isolates were identified by Vitek 2 system and found to consist of E. faecalis (38.98%), E. faecium (13.56%), E. gallinarum (40.7%), E. casseliflavus (5.1%) and E. durans (1.7%). The sensitivity of all strains isolated from the two hospitals has been tested against different antimicrobials by using the disc diffusion and agar dilution methods. The results of disc diffusion method showed that there were ten effective antimicrobials gainst VRE and VIE strains isolated from the two hospitals against URE and VIE strains isolated from KAUH and the MIC90 for them were 2, 8, 2, 8 μg/ml respectively. Linezolid, wancomycin, teicoplanin, gentamicrobials against Enterococcus spp. isolated from KH and the MIC90 for them were 2, 8, 1, <4, 8 μg/ml respectively. The strains isolated from the two hospitals showed high level of resistant to three antibiotics; quinu
Supervisor	د. سعيد بركي المسعودي :
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