Emerging Linezolid-Resistant, Vancomycin Resistant Enterococcus faecium from a Patient of a Haematological Unit in Poland

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Abstract

The oxazolidinone antimicrobial, linezolid, has been approved for the treatment of infections caused by various gram-positive bacteria, including vancomycin-resistant enterococci (VRE). This is the first report on isolation of a linezolid resistant, vancomycin-resistant Enterococcus faecium (LRVREF) strain in Poland, from a Haematological Unit patient in the Clinical Hospital in Gdansk. PCR-RFLP analysis of rDNA and allele-specific PCR of the domain V region of the 23 S ribosomal RNA gene demonstrated the presence of the G2576U mutation previously reported to be associated with linezolid resistance. Both assays detected heterozygous in this position.

Key words: Enterococcus, PCR, oxazolidinone, allele-specific PCR, PFGE

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