Carbapenemase Producing And Polymyxin-Resistant (mcr-1) Enterobacteriaceae – A Local Genomic And Clinical Epidemiology Study

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Abstract
Invasive Carbapenem-resistant Enterobacteriaceae (CRE) infections are associated with high mortality and limited therapeutic options, making these infections challenging to treat. Hence, in order to combat nasty CRE infections the use of "abandoned, older" antimicrobials such as the polymyxins have been revived into clinical practice. Unfortunately, the emergence of co-occurring polymyxin and carbapenem resistance, mediated by mcr (encoding polymyxin resistance) and carbapenemases is threatening to produce a rise of strains which are pan-resistant. This poses a serious threat to public health worldwide.

In this talk, the clinical, molecular and laboratory aspects of carbapenemase producing and polymyxin resistant Enterobacteriaceae obtained from ongoing local surveillance is discussed.

Selected Publications