

Multidrug Resistance and Extended Spectrum Beta Lactamase Production in *Klebsiella* Species Isolated From Cases of Neonatal Septicaemia

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ABSTRACT Worldwide Neonatal intensive care units are facing increasingly rapid emergence of antibiotic resistant bacteria, commonest among them being Multidrug Resistant (MDR) and Extended Spectrum Beta Lactamase (ESBL) producing *Klebsiella species* which creates serious therapeutic problems .So we conducted this study with the objective of accessing the prevalence of MDR and ESBL production in *Klebsiella species* isolated from cases of neonatal septicaemia. 100 non-repeat clinical isolates of *Klebsiella species* isolated from 396 blood samples of suspected cases of neonatal septicaemia in NICU from December 2008 to March 2010 were studied for MDR and ESBL production by CLSI guidelines. Among 100 isolates 96 percent were MDR, 95 percent ESBL producer by screening and 75 percent ESBL producer by confirmatory test. Detection for ESBL should be carried out as a routine by PCDDT as it is simple and cost effective test.