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## Sensitivity pattern of microorganisms of septicemia in neonatal intensive care unit of tertiary hospital, Bangladesh

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**Introduction:** Micro-organism causing neonatal septicemia varies from country to country and also region to region and time to time. In many situations, conventional antibiotics are not sensitive to causative micro-organism. Our aim of the study was identify causative organism and sensitivity pattern of micro-organism in Neonatal intensive Care Unit (NICU).

**Methods & Subject:** Total 300 patients were enrolled in this study with clinically diagnosed septicemia with prior antibiotic treatment or not. This study was done in NICU of tertiary Hospital, Chittagong Medical College, Bangladesh during the period of January 2013 to July 2014. Blood culture was done in Bact /Alerd 3D system and culture incubated in Fractionated antibiotic neutralization (FAN).

**Result:** Out of 300 cases, 204 cases were culture negative and 96 cases were culture positive. Klebsiella is the commonest causative organism 52(54.17%), followed by Pseudomonas

16(16.67%), Acinetobactor 14(14.58%), *S.aureus* 6(6.25%), *E.Coli* 6(6.25%), *E. Coli* with other Coliform 2(2.08%). In this study, sensitivity of Klebsiella was mostly to Ciprofloxacin, Imipenem, Azithromycin, Co-trimoxazole, Piperaciline, and Tazobactam. Sensitivity to Pseudomonas was mostly to Amikacin, Imipenem, Ciprofloxacin, Azithromycin and Cefoperazone+ Sulbactam. Sensitivity to Acinetobactor was mostly to Amikacin, Imipenem, Ciprofloxacin, Netilmicin. Sensitivity to Staph. Aureus was mostly to Vancomycine, Amikacin, Imipenem, Meropenem. Sensitivity of *E.coli* was mostly to Amikacin, Ciprofloxacin, Ceftazidin. Most of the culture positive organisms resistant to conventional Ampicilin, Gentamycin.

**Conclusion:** Conventional antibiotics Ampicillin and Gentamycin are almost resistant to organism causes neonatal sepsis in our NICU.

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