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## Emergence of multidrug resistance *Enterobacter* sepsis in a neonatal tertiary care setting: A three year study

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**Objective:** To study risk factors for *Enterobacter* sepsis and sensitivity pattern of the organism.**Method:** Prospective hospital based study was conducted at tertiary neonatal intensive care unit of Ziauddin University Hospital from January 2011 to December 2014. Blood specimens for culture from 2166 babies were sent. Repeat cultures were done when the neonate did not show improvement or deteriorated on first line antibiotics. Risk factors were looked for. Antibiotic resistance of the isolate was studied by the disk diffusion technique.**Results:** There were 540 (24.93%) cases of culture proven sepsis. *Enterobacter* was grown in 84 (15.55%) cases. Among the gram negative organism *Enterobacter* was the commonest organism n=84 (15.5%) followed by pseudomonas n=54 (10%). Among the gram positive organism, *Staphylococcus lugdunensis* was seen in 150 (27.77%) cases followed by *Staphylococcus aureus* n=54 (10%). Increased incidence of late onset sepsis (4.6/1000 live births) was observed during this period. Univariate analysis of risk factors revealed a significant association between LBW 54 (P value 0.001), prematurity 78 (P value 0.001) and prolong stay 66 (P value 0.001) and *Enterobacter* sepsis. Resistance to the first line antibiotics (Cefotaxime sodium, Aminoglycoside) was seen in 72% of cases.**Conclusion:** Prolonged stay in the nursery due to prematurity/LBW is important risk factor of *Enterobacter* sepsis. Prolonged use of antibiotics results in emergence of multidrug resistance. Further studies are needed to establish the role of antibiotics in the emergence of multidrug resistant microorganism.

### Biography

Fasih Zareen is a Consultant, a Pediatrician and Neonatologist at Gulf Medical College Ajman, UAE from 2014 till date. She is Consultant Neonatologist and Pediatrician at Al-Zahra Hospital, Sharjah, UAE. She is Chairperson and Professor of Pediatrics at United Medical and Dental College, Karachi, Pakistan from 2013. Also, she is Head of Department, Professor of Pediatrics and Neonatologist at Ziauddin Medical University Hospital since 1999 till date. She is a Gold Medalist and topped Karachi University, holding First Class First position in final year in MBBS, Examination and won President's Award, Pakistan. She has published 7 papers.

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