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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 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 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* seen in 150 (27.77%) cases followed by *Staphylococcus aureus* n=54 (10%). Increase 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 prolonged 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 factors 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

Zareen Fasih completed her MBBS from Karachi University. She achieved her MRCP from Royal College of Ireland and was secretary general of Pakistan Pediatric Association from 2010-2012. She is the Chairperson of Neonatology. She is presently working as Professor and consultant Neonatologist at Gulf Medical University, UAE. She has an experience in metabolic and critical congenital cardiac diseases screening at GMC hospital. She is on the Editorial Board of *JppA*.

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