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Frequency and antimicrobial susceptibility pattern of microorganisms isolated from hospitalized infantile burn cases in a tertiary care hospital

Syed Zafar Mehdi¹, Jalal uddin Akber², Mazhar Nizam³, Kamran Dawood⁴ and Ahmed Raheem Buksh⁵ Baqai Medical University, Pakistan

Objective: The aim of this study was to determine the frequency of organisms and their antimicrobial sensitivity pattern in infantile burn.

Methods: This retrospective study was conducted at the plastic surgery, burn unit of Patel Hospital during period of 7 years from January 2007 to December 2013. Children aged one year or less at the time of admission were included in the study. SPSS 21 version was used for statistical analysis.

Results: Total 789 pediatric burn patients were admitted in Patel Hospital during January 2007 to December 2013, in which 106 were infants. 83 (78.3%) infants had scald burn, 21 (19.8%) had fire burn and 2 (1.9%) had chemical burn. Out of 106 infantile burn cases, 28 (26.4%) had growth of organisms in wound cultures. Initially at the time of admission only 2 (7%) of infants had growth of organisms in wound cultures but on subsequent cultures the growth of organisms increased. Single organism was isolated in wound cultures of 9 (32.1%) patients, while two organisms were found in 8 (28.6%) and three organisms were found in 11 (39.3%) infants. The commonest organisms present both in scald and fire burn were *Staphylococcus aureus* 17 (60.7%) followed by *Acinetobacter* spp. 14 (50%) and *Pseudomonas aeruginosa* 13 (46.4%) respectively. If we see the sensitivity pattern, *Staphylococcus aureus* was 100% sensitive to vancomycin and linezolid followed by fusidic acid 47%. If we see the culture and sensitivity pattern of *Pseudomonas aeruginosa*, *Acinetobacter* spp. and *Klebsiella* spp. all were 100% sensitive to polymyxin B. While Providencia spp. and Proteus species were 100% sensitive to cefoperazone + sulbactam and meropenem.

Conclusion: This study high lights that *Staphylococcus aureus*, *Acinetobacter* species and *Pseudomonas aeruginosa* are the common organisms in infantile burn. While vancomycin and polymyxin B are the effective empirical therapy in our setup. Antibiotic resistance due to inappropriate use of drugs is a common finding in our environment and medical staff must be educated regarding the rational use of antibiotics. Wound swabs should be performed in all cases.

Biography

Syed Zafar Mehdi did his MCPS and FCPS in Pediatric Medicine from College of Physicians and Surgeons, Pakistan. He is an Associate Professor of Pediatrics in Baqai Medical University Karachi. During last 18 years in this profession, he has worked with children suffering from protein calorie malnutrition, infectious diseases and neonatology. He has played an important role in promotion and support of exclusive breast feeding for first six months on which he has published several papers and has given various presentations. He is also a Consultant of Pediatrics at Patel Hospital, Karachi. He is a member of Burn Plastic Surgery team. His several papers have been published on infantile burn. He has raised the voice for prevention of Pediatric Burn both at national and international level.

zafar.mehdi14@gmail.com

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