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Twelve years analysis of bacterial isolates and their antibiotics sensitivity in a tertiary care burns unit

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The aim of this study was to review the changes in distribution of bacterial populations and their antibiotic sensitivity over 12 years in a tertiary care burn unit. Understanding the periodic variation of isolated microorganisms and their antibiotic sensitivity helps in selecting the appropriate antimicrobial therapy before culture and sensitivity is reported. It also aids the design of antibiotics protocols. The study was retrospective. The data were obtained from the computerized hospital medical record system and the burn unit records. Overall, *Pseudomonas aeruginosa* was the most commonly isolated microorganism followed by *Staphylococcus aureus*, *Meticillin-resistant Staphylococcus aureus (MRSA)* and the genus *Acinetobacter*. *Acinetobacter* isolation rose rapidly and became more prevalent than *P. aeruginosa* over the last three years. Other organisms became isolated more frequently, such as *Klebsiella pneumoniae*, but their overall prevalence was low. *Pseudomonas* species frequency of isolation declined. *P. aeruginosa*, *MRSA* and other microorganisms showed increasing sensitivity to a number of antibiotics. *MRSA* remained highly sensitive to vancomycin. *Acinetobacter* showed high resistance to all antibiotics tested except colistin. *K. pneumoniae* was highly resistant to most of the antibiotics tested except the carbapenems, but the resistance to carbapenems increased over time

Biography

Zainab Said Muhammed Al Hashimy is a Senior Specialized Pharmacist in Plastic and Hand surgery wards. She has developed her skills in Pharmacy Management since 2006 in running the OPD Pharmacies in the Tertiary Care Hospital, Khoula Hospital in Oman. She is a Member in Education and Training in Pharmacy Department. She has interest in bacterial resistance and antimicrobial stewardship. She is performing research in the uses of antibiotic in surgical prophylaxis

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