

COMPREHENSIVE STUDY OF MICROBIOLOGICAL RESISTANCE AMONG AL-SHIFA HOSPITAL SURGICAL WARD DURING GMR

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Antimicrobial resistance has been identified as a major threat by the World Health Organization (WHO) due to the lack of new antibiotics in the development pipeline and infections caused by multi-drug resistant pathogens becoming untreatable.

Methodology: Cross sectional retrospective observational study was conducted for nearly 4 months from 1/04/2018 to 23/07/2018 during AL-OADA GMR (Great March Retain). A comprehensive review of all culture isolates from surgical departments of Al-Shifa Hospital. Internal, NICU and gynecological departments were excluded. Composite end point was taken as outcome with ease of collection and complexity of result interpretation. 981 cultures were reviewed from these: 824 pus cultures, 90 sputum cultures, 56 blood cultures and 11 central line cultures.

Results: *E-coli* 28%, *Klebsiella* 21%, *Staph aureus* 21%, *Pseudomonas* 14%, *Proteus* 6%. Resistance of G negative strains were: to third generation Cephalosporins reach 97%, 85% for Ciprofloxacin, 93% for Piperacillin, 100% Cefazolin, 22% Amikacin, 47% Meropenem And 19% Colistin. Resistance of G positive strains were 81% Ampicillin, 14% Rifampicin, 41% Clindamycin, 15% Vancomycin, 50% Cefazolin, 46% Amoxy/Clavu, 66% Cloxacillin, 50% Gentamicin.

Conclusion and recommendations: High period prevalence of BDR was detected apparently with losing colistin as corner stone in resistant G strains. Clear steps should be taken to win the war against resistant strains emerged, stewardship program should be planned and supported in Gaza Hospitals.

BIOGRAPHY

Samaher J Younis has completed her bachelor's degree at the age of 23 from Al-Azhar University, Palestine. She is a board-certified pharmacotherapy specialist from American College of Clinical Pharmacy. She is the head of clinical pharmacy in Al-Shifa Hospital, lecturer in Palestine University, Gaza, Palestine. She has over 7 publications that have been cited.

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