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BACTERIOLOGICAL PROFILE OF WOUND SEPSIS AND ANTIMICROBIAL PATTERN OF ISOLATES AT FEDERAL MEDICAL CENTRE, BIDA, NIGER STATE

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Aim: The study was aimed to identify etiology of bacteria associated with wound sepsis and antimicrobial susceptibility profile of the isolated organisms in the community.

Study Design: It is a retrospective study; data were obtained from Medical Microbiology department register from May 2005 through October 2007 and was exempted from ethical approval. Swab samples were collected from 408 patients between age groups 0 through 75years. In and out patients with various injuries such as burns, post-surgical wound, fracture and ulcer wounds. Samples were culture within 1hour on MacConkey agar, blood agar and chocolate agar, and incubated at 37o c 18-24 hours overnight. Data were coded and computed using SPSS 16.0 and p-value 0.05 was considered statistical significant.

Results: Out of 338 (82.8%) positive culture, overall highest isolates was found within age groups 31-40years with 69(94.5%) growth followed by 21-30years 61(85.9%) and statistically not significant (p-value 0.814, mean age =11.34, median =12.00 and S.D±4.361).The highest single colony isolates was Staphylococcus aureus 122(42.5%) followed by Escherichia coli 108(37.6%) and Pseudomonas aeruginosa 28(9.8%). Staphylococcus aureus the highest single colony was susceptible to Ceftriazone 75(61.5%), Ciprofloxacin 71(58.2%) and Clindamycin 83(68.0%).

Conclusion: The incidence rate of wound sepsis in the studied population is 338(82.88%) and incriminating single colony isolate was Staphylococcus aureus 122(42.5%). Stake holders need to educate patients visiting hospital community on the danger of wound sepsis and first aid treatment before visiting tertiary health care to reduce morbidity and mortality rate.

Biography

Akobi Oliver Adeyemi is Assistant Chief Medical Microbiology, practicing on the bench, and working with Federal Medical Centre, Bida, Niger State, Nigeria. Oliver currently doing his PhD in Medical Microbiology at Igbinedion University, Edo State, Nigeria, and working on Antimicrobial Resistance in Clinical Isolates. Oliver has taking part in the training of intern Medical Laboratory Scientist since September, 2010. He collaborated with other professional colleagues to publish several publications in international journals.

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