Identification & Characterization of Pseudomonas aeruginosa Species from Different Human Samples

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Abstract:
Pseudomonas aeruginosa is one of the most widespread gram negative microorganisms identified in the clinical samples and one of the most common causes of nosocomial infection. This was a cross sectional study done among the patients attending Bangladesh Institute of Health Sciences Hospital during July 2017 to August 2018. The present study was aimed to analyze the P. aeruginosa from different samples. A total 3062 clinical specimens including urine (n=2116), pus (n=455), wound swab (n=309), & sputum (185) were collected from 3062 patients. Among them 218 strains of P. aeruginosa were isolated. Were 78(35.8%) from Indoor patients & 140(64.2%) from outdoor patients. 149(68.3%) of the P. aeruginosa were found in the males and 69(31.7%) from females. Majority of the patients 188(86.2%) were aged between above 30 to 35 years. For this investigation an array of Morphological test, Biochemical test & Sensitivity tests were performed to isolate the bacteria. Antimicrobial sensitivity pattern was done using standard guidelines. Among the samples 17(0.80%) P. aeruginosa were identified from urine samples, 88(19.3%) from pus sample, 94 (30.7%) from wound sample & 19 (10.3%) sputum. The highest no of P. aeruginosa found in wound sample 94(30.7%) Most of the P. aeruginosa was resistant to Ciprofloxacin (84.1%) Nalidixic Acid (86.4%), Aztreonam (100%), Ceftazidime (95.7%), Ceftriaxone (97.8%) Cefixime (100%) &. Doxycyclin (92.6%) Most sensitive Colistin (94.3%), Meropenem (46.6%), Imepenem (42%) Tigecycline (76.1%)

Biography:
Mousumi Karmaker, Assistant Professor, University of Dhaka, Department of Microbiology
Several courses - marketing, selling skills, negotiation, communication skills in Swiss institute and languages English ,Deutsch , Computer sciences. I participated in 5 international conferences as speaker and poster inside and outside Egypt and others Volunteer work was one of activities that I care to keep it for years

Publication of speakers:
3. Drenkard, E. Antimicrobial resistant of pseudomonas aeruginosa biofilms, microbes and infection, us national library of medicine national institute of health, 2003,05.