



Identification & Characterization of *Pseudomonas aeruginosa* Species from Different Human Samples

Mousumi Karmaker

Department of Microbiology, Bangladesh University of Health Sciences.

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%) &. Doxycycline(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:

1. Neu, H.C. The role of *Pseudomonas aeruginosa*.in infections, *J.Antimicrob Chemother*, 2005.11; 1-13.
2. Emori, T.G, Gaynes, R.P.An overview of nosocomial infection, including the role of the microbiology laboratory American society for microbiology, 1993.vol-ume-10.Rev.6:428-442.
3. Drenkard, E. Antimicrobial resistant of *pseudomonas aeruginosa* biofilms, microbes and infection, us national library of medicine national institute of health , 2003,05.
4. Fridkin,S, Steward, C, Edwards, J,Pryor, E,McGowan, J.Archibald,L.Surveillance of Antimicrobial Use and antimicrobial Resistance in United States Hospitals, us national library of medicine national institute of health, 1999.45.

International Conference on Clinical Microbiology and Parasitology

Citation: Mousumi Karmaker, : Identification & Characterization of *Pseudomonas aeruginosa* Species from Different Human Samples, *Advanced Microbiology* 2020; July 22, 2020; London, UK.