



HEB

Journal of Hospital Pharmacy
 An Official Publication of Bureau for Health & Education Status Upliftment
 (Constitutionally Entitled As Health-Education, Bureau)

JOHP

A Study of Culture and Sensitivity Patterns Among Admitted Patients in a Tertiary Care Hospital

Velpula Keerthi¹, M. Bharath Kumar², Medi Malasri³, Dr. K. Sechana⁴

Corresponding Author address - Department of Pharmacy Practice, Pharm D, Malla Reddy Institute of Pharmaceutical Sciences, Maisammaguda, Secunderabad, Telangana, India 500014.

Corresponding Author: Velpula Keerthi

Email Id: serviceheb@gmail.com

ABSTRACT: Antibiotic Resistance is the ability that microorganisms develop to resist anti-microbial agents when bacteria adapt of alliterate to defend themselves from antibiotics the problem of acquiring antibacterial resistance has been exacerbated by the use of antibiotics inappropriately and by a typical antibiotic therapy. To analyse the antimicrobial sensitivity and resistance pattern to reduce the mortality and morbidity of patients during a hospital stay. The research was carried out over six months, from August 2023 to January 2024. A total of 100 subjects were enrolled during the study period. The most prevalent category, E. coli and Klebsiella pneumonia each separately accounted for 13% of the identified bacterial isolates. Amoxicillin-clavulanic acid is the most frequently chosen antibiotic (23%) followed by others. An appropriate prescription of antibiotics can be guided by an assessment of the sensitivity and resistance patterns of organisms to such antibiotics. Every hospital set-up needs to create a local antibiogram at least once every quarter to improve clinical decision-making when it comes to starting empirical antibiotics. Monitoring the resistance patterns area-by-area requires routine antimicrobial susceptibility surveillance.

Keywords: Antibiotic Resistance, Susceptibility, Antimicrobial Resistance Surveillance, Superbugs, Culture, Hospital Acquired Infections

Access this Article Online

Website: <http://www.journalofhospitalpharmacy.in> Quick Response Code:

Received on 06/06/2025
 Accepted on 1/07/2025 © HEB All rights reserved

