

Prescription Patterns of Antibiotics For Respiratory Tract Infections in a Tertiary Care Hospital – A Prospective Observational Study

V. Manjusha, *K. Swapna, M. Raghavender, Mohammed KashifSharief, Sai Chaitanya. G.

Department of pharmacy practice, Pullareddy institute of pharmacy, Medak

Address for Correspondence: editorjohp@gmail.com

ABSTRACT:

Introduction: Respiratory tract infections (RTI) were responsible for an estimated 3.9 million deaths worldwide, with 90% deaths due to bacterial pneumonia. The study of prescribing patterns is a part of medical audit and seeks to monitor, evaluate and if necessary, suggest modifications in prescribing practices to make medical care rational. **Objective:** The objective of this study was to assess the prescribing patterns of antibiotics for RTI in a tertiary care hospital. **Methodology:** A prospective study was conducted for 150 patients for six months at a tertiary care hospital at hyderabad. The prescriptions were assessed mainly for demographic details, Class and frequency of antibiotics prescribed and route of administration. **Results:** A total of 150 patients with respiratory tract infections were enrolled into the study out of which 79 (52.66%) were male patients and 71 (47.33%) were female patients. The highest numbers of cases were observed in adults, followed by Infants, children, elderly and adolescents. The least number of cases were observed in neonates. Among disease-wise distribution of RTI the highest number of cases was of sinusitis and bronchitis and the least number of cases was of pulmonary Koch's. **Conclusion:** A total of 150 records of patients who were admitted in various departments of hospital, were collected and analyzed. Amongst all the antibiotics prescribed, the highly prescribed ones were found to be Penicillins, followed by Cephalosporins, Macrolides, Aminoglycosides, and Fluoroquinolones.

Keywords: Antibiotics, respiratory tract infections, prescribing patterns

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