

## A Prospective Cross-sectional Study on Prescribing Pattern of Antibiotics and Analgesic Drugs In Orthopedics Department At Tertiary Care Hospital

*Dasari Vijay sagar<sup>1</sup>, Marepally Shireesha<sup>1</sup>, Pothula Shruthi<sup>1</sup>, Dr. Mohammed Abubakar<sup>2</sup>*

1. Doctor of Pharmacy (Geethanjali College of Pharmacy), RVM hospital, Medchal dist, Hyderabad, TS.
2. Assistant professor, Department of pharmacy practice (Geethanjali college of pharmacy) Medchal dist, Hyderabad, TS.

**Address for Correspondence: [editorjohp@gmail.com](mailto:editorjohp@gmail.com)**

### Abstract

The present study was taken up to generate useful data by analyzing pooled information regarding the prescribing pattern of NSAID's and antibiotics such as formulations, dose, route, frequency, duration of administration, Concomitant medication, FDC and average number of drugs per prescription and also assessed to check whether the drugs prescribed were enlisted under NLEM, India 2015 or not. To calculate the number of drugs per prescription by the generic name and brand name. To determine the average number of drugs per prescription of analgesics and antibiotics. To determine the category of analgesic and antibiotics drugs having a better therapeutic effect in orthopedics cases. The study was designed as a prospective, observational; evaluating the prescribing pattern concerned with the use of analgesics and antibiotics in orthopedics department. The study was conducted in a single centred 300 bedded hospital in Orthopaedics department. 102 prescriptions were collected and analyzed prospectively for the pattern of NSAID and antibiotics for arthritic and non-arthritic conditions; the drug formulation, route, Dosage frequency, duration of admission and concomitant medications, Duration of treatment, percentage of drugs prescribed from essential drugs list or formulary, the drugs were included in NLEM 2015 was found to be rational, there was no misuse of antibiotics and there was no polypharmacy noticed. Of 102 prescriptions 51 cases were from OPD and 51 cases were from IPD. The study was undertaken to give feedback to the prescribers, so as to create awareness about the over-use of drugs especially antibiotics hence patient counselling should be done for proper use of antibiotics, culture sensitivity tests should be conducted before prescribing antibiotics. NSAIDs were prescribed empirically for various arthritic and Non-arthritic conditions, frequently with various adjuvants' as per the standard guide lines. NSAID's are having better therapeutic effect in substituting the pain compared to Opioids.

**Key words:** Analgesics, Antibiotics, WHO list of essential medicines, National Model List of Essential Medicines (NLEM), Orthopedics, Prescription Pattern, NSAIDs (Non steroidal anti-inflammatory drugs).

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