

TO DETERMINE THE RATIONAL USE OF ANTIBIOTICS; A CASE STUDY CONDUCTED AT MEDICAL UNIT OF HAYATABAD MEDICAL COMPLEX, PESHAWAR

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ABSTRACT

Rational use of a drug means when the patients receive the drug which is appropriate, in doses that meet their individual requirement, for an adequate period of time at the lowest cost both to them and the community ^[1] and irrational use of Medicine is that when one or more of the above condition is not met. It has calculated that half of the drugs are sold, dispensed inappropriately ^[2, 3] and also half of the patient fails to take the medicines as prescribed by the physician ^[4]. Irrational use may include Poly pharmacy, over use of antibiotics, and injection failure to prescribe in accordance With clinical guide lines or wrong guideline. It is a global problem of wrong use of drugs, Some countries taking action to make correct the problem ^[5]. The study was conducted at the medical unit of Hayatabad Medical Complex Peshawar, from October 2011 to January 2012. The aims of this study is to determine the rationale of antibiotics use in various patients suffering from the various diseases. Besides this to evaluate drug-drug interactions, drug food interactions and polypharmacy that are prescribed to the patients. The Data was collected on random basis containing 20(76.92%) male and 06(23.07%) female patients. Most i.e. 23.07% the patients were in the range of 10-20 years and 11.53% in the age range of 41-50 years. In most of the cases reported the irrational use of antibiotics. For the successful pharmacotherapeutic plans and rational use of antibiotics proper knowledge about the drugs is required in order to eliminate or to decrease the chances of drug interactions in the prescribed drugs to the indoor patients. It will be in the better interest of the patients to provide proper knowledge to the Health professionals and the patients regarding the drugs, to induce clinical pharmacists at the wards level to ensure the rational use of drugs.

The efficient use of existence antibiotic should be done so that to ensured the long term use of drugs (antibiotics) in bacterial infection ^[16].

KEYWORDS: Antibiotic, Rational, Irrational