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Evaluation of antibiotic utilization in surgical ward of University of Gondar Teaching Hospital, northwest Ethiopia

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Inappropriate antibiotic use results in emergence of resistance, adverse drug reactions and increase cost of health care. Hence, studying the evaluation of antibiotics usage is therefore a helpful technique to improve the appropriateness of antibiotics use. The aim of this study was to evaluate the antibiotics utilization in surgical ward of University of Gondar Teaching Hospital, northwest Ethiopia. Hospital based cross sectional study was conducted in surgical wards of University of Gondar Teaching Hospital from March 11- May 10, 2013 and data were collected by using pre-tested standard data collection form, face-to-face interview and observation. Subsequently, the appropriateness of the antibiotics usage was evaluated using Ethiopia and American Society of Health System Pharmacists, 2010 guidelines and data was analyzed by SPSS version 20.0. A total 271 patients medical records were evaluated of whom 211 (77.9 %) were for prophylaxis and 60 (22.1%) for therapy. 163 prophylactic and 59 therapeutic prescriptions included in the analysis, of these 160 (98.2%) of prophylactic and 43 (72.9%) therapeutic prescriptions were inappropriate. The most common reason of inappropriate therapeutic antibiotics included: inappropriate indication, choice, dose and duration of antibiotics were 1 (1.7%); 38 (64.4%); 38 (64.4%); and 43 (72.9%) respectively. Moreover, most characteristics of inappropriate prophylaxis were inappropriate indication; choice, dose, duration and starting time of antibiotics were 45 (24.2%), 160 (98.2%), 121 (74.2%), 128 (78.5%) and 76 (46.4%) respectively. The inappropriate usage of antibiotics in emergency surgical procedure 94 (97.9%) was higher than elective procedure 107 (86.5%), (AOR 95% CI=6.395 (1.363-29.992), P=0.019). Significant amounts of antibiotics prescribed inappropriately in surgical ward of University of Gondar Teaching Hospitals.

Biography

Bayew Tsega has completed his MPharm at the age of 26 years at Jimma University School of Pharmacy in 2011. Currently, he is working as Lecturer as well as Director of Drug Information Center and Chief Drug Consultant at University of Gondar Referral and Teaching Hospital for the last two years. He has published more than 11 original research articles in peer-reviewed journals. He was awarded Golden Cup by the Ethiopian Pharmaceutical Association in 2007 and Gold Medal by the Ethiopian President in 2008 for his outstanding academic achievements in of pharmacy.

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