

Drug Use Evaluation (DUE) of Ceftriaxone in Mubende Regional Referral Hospital, Uganda: A Cross-Sectional Survey

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Abstract

Ceftriaxone is a third generation cephalosporin recommended as first line treatment option for a number of diseases in Uganda. However, the National Drug Authority has in the recent past received complaints of suspected treatment failure from clinicians who use different brands of ceftriaxone in Uganda. The main aim of the study was to document the treatment outcome following use of ceftriaxone and evaluating the use of ceftriaxone against the current treatment guidelines in Uganda using a descriptive non-interventional study design. A total of 100 hospitalized patients treated with ceftriaxone were enrolled. The results showed that Ceftriaxone was used to treat pneumonia in the pediatric ward, presumptive therapy for infection following caesarean section and PID in the post-natal ward, while on surgical and medical wards, Ceftriaxone was used to manage upper respiratory infection, bacterial infections and meningitis. Of the patients treated with ceftriaxone only 18% completed their doses and had regular administration. Majority of the patients had irregular administration with completed doses and others did not complete their doses. It was concluded that there is low treatment outcome during use of Ceftriaxone and the empirically treatment is highly prevalent in the hospital. There is high number of inappropriate drug administration, in which patients usually miss doses or do not complete as prescribed. This practice has an effect of affecting the patient outcomes and aggravating antimicrobial resistance. Choice of

Ceftriaxone use is not guided by culture and sensitivity due to lack of inadequate laboratory infrastructure.



Biography

Dr. Manirakiza Leonard Manirakiza Leonard completed his Bachelor's degree in Economics and Statistics in 2015 from Kyambogo University, Uganda and has acquired several trainings in pharmacovigilance. He is the Data analyst of National Pharmacovigilance Center, Uganda. He has co-authored 3 more papers in reputed journal.

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