

10/07 / PHARM ITP

THE KENYA POLYTECHNIC UNIVERSITY COLLEGE

DEPARTMENT OF HEALTH SCIENCES AND BIOTECHNOLOGY

TRADE PROJECT

TITTLE: A STUDY OF RATIONAL PRESCRIBING AND DISPENSING
OF ANTIBIOTICS IN OUTPATIENTS AT MATHARI HOSPITAL FROM
JANUARY TO APRIL 2007

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ABSTRACT

Irrational prescribing and dispensing of antibiotics has resulted to increased level of antibiotic resistance and adverse drug reaction leading to many undesirable side effects. The rationale of carrying out this study was to analyze the prescription of outpatients for rational prescribing and dispensing and establish whether the irrationally prescribed antibiotics are irrationally or rationally dispensed. Also the study aimed at determining in which age irrational prescribing occurred most.

A cross sectional descriptive study was conducted at Mathari hospital during time period January to April 2007 in which totally 258 prescription were randomly selected for analysis, where 768 drugs were prescribed. Only 38.4% of the total prescription had an antibiotic prescribed, 15% of antibiotics were prescribed in Generic name, 20% were fixed dose combinations. The study found that Cotrimoxazole was highly irrationally prescribed and 22.48% of the cases of irrational prescribing occurred in age of 21 to 30 years. Among the drugs prescribed, irrational prescribing occurred in 69.57% cases and about 30.43% of the total cases were dispensed uncorrected. 65% of prescribed antibiotics were solid dosage form, 25% were liquid formulation and 10% were the topical applications. It was found out that pharmacist labeled only 20% of medication envelopes and auxiliary labeling. 82.6% had name of patient and 4% had time of administration indicated.

There is need for educational intervention for prescribers & both managerial & educational intervention for the hospital pharmacists to improve prescribing and dispensing.