

Program Adı

Pharmacology; Master Thesis - 2016

Tezin Adı

Potential drug-drug interactions in cardiovascular patients prescriptions dispensed in community pharmacies in Albyd of Libya

Tezi Hazırlayan

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ABSTRACT

The project titled as "Potential drug-drug interactions in cardiovascular patients prescriptions dispensed in community pharmacies in Albyd of Libya. It was conducted in different community pharmacies under the Ministry of Health in Albyd of Libya.

Drug-Drug Interactions (DDIs) are adverse reactions caused by a combination of drugs; they are often predictable and therefore avoidable or manageable. Various studies suggest that cardiovascular patients are more often reported with pDDIs as compared to patients with other diseases.

The possible reason behind higher pDDI rate in cardiovascular diseases may include elder age, multiple drug regimen, and pharmacokinetic or pharmacodynamic nature of drugs used in cardiology. Yet overall incidence and pattern of DDIs in Libya has not been well documented and little information is available about the strategies that have been used for their prevention. Most of the studies world widely were done for hospitalized patient to measure the incidence of drug-drug interactions but the primary objective of the study will to be analysis the frequency of drug interactions in prescribed drugs for cardiovascular diseases outpatients and to

correlate the frequency of drug interactions with demographic features of patients, and to identify risk factors for such interactions in Albyd of Libya.

The objective of this study is to evaluate the nature, type and prevalence of potential DDIs in prescriptions dispensed in community pharmacies in Libya.

This study was conducted in 32 community pharmacies under the Ministry of Health in Albyd of Libya. They were collected in 1369 prescription to patients randomly. Prescription matching inclusion criteria, It was sort prescription that contain a cardiovascular drug and excluded those involving one drug, Prescription were retrospectively analyzed for drug-drug interaction using Drugs.com data base, these database are categorized three categories (minor, moderate, major). The collected data will be transferred to computer and analyzed using suitable statistical analysis. Overall incidence of drug interaction was 76.5% from that 2.17% was major interaction, 68% was moderate and the rest had minor interactions. Increase in number of drugs in each prescription caused to a significant increase in the incidence of drug interactions.

It is conclude knowledge of drug interactions and replace them with other drugs and reduce the number of drugs that can reduce to a large extent these interactions.

Anahtar Kelimeler: DDIs, prescriptions, pharmacodynamics, pharmacokinetic, cardiovascular drugs.