

Abstract

Drug interactions of cardiovascular drugs and their analysis in the patients of community pharmacy

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Introduction: Drug interactions represent a serious health problem and they cause many hospitalizations. Although their identification and documentation received a considerable attention, they remain unrecognized for many patients.

Objectives: The goal of the thesis was to analyze serious drug interactions between cardiovascular drugs, to describe their management in clinical practice, which is useful during dispensation, and to evaluate occurrence of these drug interaction in a community pharmacy.

Methodology: The information was gained from several databases and compared, and afterwards management of major drug interactions of betablockers and calcium channel blockers was created. Patients of a community pharmacy were screened for these drug interactions. The data were processed by frequency analysis.

Results: In the theoretical part, 94 drug interactions were analysed. The total number of patients who received betablockers or calcium channel blockers in the community pharmacy was 525. Serious drug interactions described in this thesis were found in 22 of them (4,2 %).

Conclusion: Drug interactions are not only a theoretical risk, but actually an occurring problem that is not often adequately solved at the pharmacy. Pharmacists are not only capable of capturing a large part of them, but they can also contribute to their elimination. For each patient, it is necessary to evaluate the individual risk combined with other medication, dosage of drugs and prescribing physician's specialization, and by targeted questions about associated risk factors and subjective symptoms. Information about their management must always draw from multiple sources.

Keywords: Cardiovascular drugs, drug interactions, pharmaceutical care