

**Abstract:**

**Analysis of the effect of pharmacotherapy on the risk of falls in inpatients III**

**Author:** Tereza Honsová

**Tutor:** PharmDr. Josef Malý, Ph.D.

Department of Social and Clinical Pharmacy, Faculty of Pharmacy in Hradec Králové, Charles University

**Introduction:** Falls are frequent and unwanted events happening in healthcare facilities. The falls have a multifactorial character. The prevention is the best way how to improve a quality of healthcare and a quality of the patient's life. All of the doctors, clinical pharmacists and nurses can help to realize it by cooperating with each other, working with professional information and by individual attitude to each patient.

**Objective:** The aim of this study was to analyze the effect of the fall risk-increasing drugs to falls in hospitalized patients and to recommend the right interventions to prevent the fall.

**Methodology:** For the analysation, classification and quantification of the fall risk-increasing drugs, drug related problems and interventions a special online database was created. All of the doctors, clinical pharmacists and nurses were collecting details about the patients and about how the fall happened. Fall risk-increasing drugs and drug-related problems were then analyzed by clinical pharmacists. Potential interventions were suggested. Also other drug-related problems were analyzed. The data were collected from 4 hospitals in South Bohemia.

**Results:** 140 falls was analyzed. 80 % of patients who fell were older than 65 years and the most of the falls happened in the patient's room. The most frequent drugs with population and individual risk were those influencing cardiovascular and nervous system.

**Conclusion:** This study summarizes the effect of the fall risk-inducing drugs and other risk factors on the fall. The recommended interventions should be the right and effective way how to reduce the number of falls in the healthcare facilities, to rationalize the pharmacotherapy and to improve the quality of the patient's life.

**Keywords:** fall, risk of falls, hospital, fall risk-increasing drug, pharmacotherapy, clinical pharmacist