

### **3.2 Applied research projects - details FHSS**

The project *Improvement of nursing care safety* involves the identification and description of at-risk areas, a description of preventive measures, and the design of practical solutions to increase safe nursing care.

The project *Impact of Modern Non-pharmacological Treatment Methods of Cardiovascular Diseases on Sick Leave* seeks to identify the needs of those entitled to insurance disability payments for selected cardiovascular diseases. The project resulted in a significant and socially important update to the Czech Social Security Administration (ČSSZ) methodology to include improved assessment of temporary incapacity for work. The results were used to adjust the standards describing the duration of temporary incapacity for selected diagnoses according to the International Classification of Diseases (ICD-10).

The aim of the project *Population protection with a view to differentiation within the population*, was to analyse the current state of planning and evacuation procedures for emergency planning zones, based on population differentiation and population preparedness for possible disruption of critical infrastructure functionality. The output of the project was a certified methodology for evacuating the population from emergency planning zones.

The central idea behind the project *Analysis of factors influencing the risk of falls - opportunities of involvement of nurses and pharmacists in minimization of the risk* – was the potential to involve nurses and pharmacists in minimizing this risk by monitoring and analyzing the risk factors for falls linked to pharmacotherapy. Data analysis was used to identify risk factors and define corrective/preventive procedures and methods of implementation. This was followed by an evaluation of the effectiveness of the intervention program.

The contribution of the project *A Care Model for Seniors in Housing Facilities in the Concept of Three-stage Housing* was the creation of a new model of care using the three-stage housing concept for the elderly with an emphasis on preventing exclusion by maintaining connections with the community and promoting intergenerational solidarity. This housing model for the elderly is to be implemented in the Czech Republic and is intended to help the development and delivery of social services and provides solutions for the aging Czech population, even in view of the current demand for autonomous units.