

## **2 The main purpose of present study**

The main purpose of present study is to investigate the functional status of patients with dementia in a geriatric hospital and the relationship between cognitive function and functional status independent of age and other confounders. Previous studies were mainly focused on population-based sample and / or lacked controlling systematically for age and other confounders. Hospitalized dementia patients who were admitted for a single or multiple acute medical conditions are at certain risk to suffer from acute complications and/or further functional deterioration. Hence, it is necessary to describe their cognitive and physical functional status as well as the interdependencies between both these domains independent of age and other confounders. The present study is based on 871 hospitalized patients with dementia (that met ICD-10 criteria for clinical diagnosis of dementia) and investigate the functional status and the relationship between cognitive function and functional status of patients with dementia in a geriatric hospital, systematically controlling for age and other confounders. To our knowledge, this is the first large sample study to investigate the functional status of patients with dementia and the relationship between cognitive function and functional status in a geriatric hospital.