

## **Abstract**

**Title:** Estimation of normative values for the semantic verbal fluency test in older adults over 50

**Objective:** The aim of the diploma thesis was to create normative values for the semantic verbal fluency test (animal category) for older adults over 50 years, depending on the level of education achieved.

**Methods:** The diploma thesis is constructed as a cross-sectional study. All data were obtained from the international project Survey of Health Aging and Retirement in Europe (SHARE). The descriptive statistics of participants were produced with calculated means and standard deviation for continuous variables and percentage for categorical variables. The median and interquartile range for age and semantic verbal fluency test (animal category), and 2<sup>nd</sup>, 7<sup>th</sup>, and 16<sup>th</sup> percentile as the cut-off points for verbal fluency test (animal category) were calculated for participants divided into ISCED – 97 education levels and for each country separately.

**Results:** Data from 64,242 participants aged 66.4 were analyzed, and the female ratio was 55.8 %. All respondents were older adults over 50 years old from 20 European countries. Figures and tables show that all percentiles as cut-off points increased linearly with levels of education. Other result is that the performance in the test gradually decreased with age. At the end borderline values between performance of healthy and sick older adults over 50 years of age were created.

**Keywords:** cognitive functions, memory, verbal fluency, dementia