Capacity Building on Analytical Skills

This workshop aimed to support the necessary capacity to analyze aging-related data based on a longitudinal study on aging (SHARE). The workshop was conducted online in 18 days. 30 trainees attended the workshop. The majority of the trainees were with public health background. The workshop covered topics on descriptive and inferential statistics with SPPS application using SHARE data from the pilot study. The following topics were covered during the workshop:

- Longitudinal study designs: strengths and limitations
- Introduction to the importance of ageing research
- Description of variables in SHARE questionnaires
- Health related indicators in SHARE questionnaires
- Developing research questions relevant to SHARE questionnaire
- Preparation of SPSS File of Pilot
- Creating indexes: factor analysis and others
- Descriptive Statistics (Central Tendency Measures, Dispersion Measures)
- Data visualization using examples from SHARE Data
- Hypothesis Testing (means, analysis of variance and nonparametric tests)
- Estimation of mean and proportion
- Correlation between variables (quantitative and qualitative variables)
- Assessing association between qualitative variables
- Regression models (linear, logistic)
- Sampling methods
- Sampling in elderly research

Research groups were formed to implement projects on the following topics: (using the pilot data)

- Relationship between social network and depression
- Depressive symptoms and hand-grip strength among elderly
- The relation between cognitive function and educational level
- Elderly falls risk assessment in relation to general health status

- Correlation between prosocial behaviors and the presence of sleep disturbances (or sleep quality)
- Psychosocial status and impaired activities of daily living
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- Factors Affecting Egyptian Elderly quality of life
- Psychosocial determinants and consequences of elder abuse

  For more details, see Annex III for the schedule