Grill et al. BMC Proceedings 2013, 7(Suppl 4):S10 http://www.biomedcentral.com/1753-6561/7/S4/S10

SPEAKER PRESENTATION



Open Access

Multi-morbidity and disability, findings from the KORA-Age study

Eva Grill^{1,2*}, Angela Döring³, Margit Heier^{4,5}, Rolf Holle⁶, Karl-Heinz Ladwig⁴, Birgit Linkohr⁴, Christa Meisinger^{4,5}, Andreas Mielck⁶, Holger Schulz³, Barbara Thorand⁴, Annette Peters⁴

From European Workshop on Health and Disability Surveillance in Ageing Populations (EUWAP) Berlin, Germany. 22-23 November 2012

KORA-Age is a multidisciplinary research consortium funded by the German Federal Ministry of Education and Research (FKZ 01ET1003). The objective of KORA-Age is to examine the prevalence and determinants of mortality, multi-morbidity, functioning and successful ageing in persons aged 65 years or older in a large cohort of randomly selected inhabitants of the region of Augsburg, Germany.

The KORA-Age project is carried out within the framework of KORA (Cooperative Health Research in the Region of Augsburg; http://www.helmholtz-muenchen.de/ en/kora-en/index.html). The cohort includes all participants of the four cross-sectional MONICA/KORA Surveys S1-S4 conducted between 1984 and 2001 who were born in or before 1943, in total 9,197 persons. Within KORA-Age, a mortality follow-up was conducted in 2008 and 2011. In 2008/2009, a mailed guestionnaire was answered by 4,565 individuals and a telephone interview with 4,127 individuals conducted. A physical examination was performed in a gender and age-stratified random sample of the cohort in 2009 in 1,079 persons. They were followed up three years later and a re-examination took place in 822 persons. Information was obtained from interviews, a selfassessment form and health examinations including morbidity, a comprehensive assessment on mental health, health services utilisation, medication and a complete characterisation of ageing-related biological parameters like cardiovascular and pulmonary function, tests of balance and stability, bone density, body composition and measures of multi-morbidity, frailty, disability and participation. In 2013 a group of older citizens will take part in qualitative focus groups on the lived experience of neighbourhood and

* Correspondence: eva.grill@med.uni-muenchen.de

¹Institute for Medical Information Processing, Biometry and Epidemiology, Ludwig-Maximilians-Universität München, Munich, Germany environment to evaluate participation in-depth in the region of Augsburg. The sampling area was geocoded.

Major advantages of the study include the longitudinal design of the study with a wealth of data from previous surveys, and the comprehensive approach to functioning based on the model and framework of WHO's International Classification of Functioning, Disability and Health (ICF). We propose this approach for integrating functioning into a comprehensive view of the prevalence and determinants of multi-morbidity, disability and successful ageing in interaction with personal and environmental factors.

Authors' details

¹Institute for Medical Information Processing, Biometry and Epidemiology, Ludwig-Maximilians-Universität München, Munich, Germany. ²German Centre for Vertigo and Balance Disorders, Ludwig-Maximilians-Universität München, Munich, Germany. ³Institute of Epidemiology I, Helmholtz Zentrum München, German Research Centre for Environmental Health, Neuherberg, Germany. ⁴Institute of Epidemiology II, Helmholtz Zentrum München, German Research Centre for Environmental Health, Neuherberg, Germany. ⁵Central Hospital Augsburg, MONICA/KORA Myocardial Infarction Registry, Augsburg, Germany. ⁶Institute of Health Economics and Health Care Management, Helmholtz Zentrum München, German Research Centre for Environmental Health, Neuherberg, Germany.

Published: 23 August 2013

doi:10.1186/1753-6561-7-S4-S10 Cite this article as: Grill *et al.*: Multi-morbidity and disability, findings from the KORA-Age study. *BMC Proceedings* 2013 7(Suppl 4):S10.



© 2013 Grill et al; licensee BioMed Central Ltd. This is an Open Access article distributed under the terms of the Creative Commons Attribution License (http://creativecommons.org/licenses/by/2.0), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

Full list of author information is available at the end of the article