Recent Trends and Future Uncertainties in Longevity
The 5th Human Mortality Database Symposium

Dates 13–15 May 2019
Location Harnack Haus
Berlin, Germany
Sponsor Max Planck Institute for Demographic Research
Rostock, Germany
Organizers Dmitri Jdanov, Domantas Jasilionis, Vladimir Shkolnikov, Magali Barbieri
PROGRAMME

Monday, May 13

9:00–9:20 Welcome and Introduction
   Dmitri Jdanov (MPI) HDR
   Vladimir M. Shkolnikov (Director of the HMD; MPI)
   Magali Barbieri (Associate Director of the HMD; UCB and INED)

9:20–10:00 KEYNOTE TALK I • Chair: Jacques Vallin
   Mikko Myrskylä (MPI)
   TBA

10:00–10:30 COFFEE BREAK

10:30–12:00 SESSION I: Mortality patterns and longevity • Chair: Vladimir Shkolnikov
   • Guillot, M. (PennPSC); Romero Prieto, J. (CEER); Verhulst, A.; Gerland, P. (UNPD)
     Modeling age-specific mortality by detailed age between 0 and 5 years: Results from a log-quadratic
     model applied to high-quality vital registration data
   • Diaconu, V. (MPI); Ouellette, N. (UdEM); Horouchi, S. (CIDR)
     Inverse function of mortality as a measure of longevity extension
   • di Lego, V. (VID/ ÖAW)
     How many times have our lives been saved? A reappraisal of the resuscitation approach using HMD
     data
   • Hui, Z. (OSU); Siwei, C. (NYU)
     A Simulation Study of the Role of Cohort Forces in Mortality Patterns

12:00–13:00 LUNCH BREAK

13:00–13:40 KEYNOTE TALK II • Chair: France Meslé
   James W. Vaupel (SDU)
   Postponements of Mortality: Evidence from HMD Data and Implications for Forecasting

13:40–14:45 SESSION II: Frontiers of longevity • Chair: France Meslé
   • Cheung, KSL. (HKU); Wang, J.(RUC); Robine, JM. (INED)
     Beyond a mortality plateau: a fresh inquiry into the adult longevity and the force of old-age mortality
   • Poulain, M. (UCL Louvain); Herm, A. (TLU)
     Comparing Longevity and Mortality Levels at Highest Ages with the Help of HMD
   • Jasilionis, D. (MPI); Martikainen, P.(UH); Shkolnikov, V. (MPI, HSE)
     Educational components of national longevity advances in Nordic countries
14:45–15:15 COFFEE BREAK

15:15–15:45 KEYNOTE TALK III ● Chair: Dmitri Jdanov
   Emilio Zagheni (MPIDR)
   TBA

15:45–16:45 SESSION III: Consistency of national and subnational mortality data ● Chair: Dmitri Jdanov
   • Oeppen, J. (SDU)
     Net-Migration in the Human Mortality Database and related databases
   • Barbieri, M. (UCB, INED); Winant, C. (UCB); Dukhovnov, D. (UCB); Boe, C. (UCB)
     Extending the HMD approach to regional databases - An illustration with the United States Mortality Data Base (USMDB)
   • Danilova, I. (MPIDR)
     Consistency of longitudinal time series in cause-specific mortality over the ICD-10 period

16:45–17:00 BREAK

17:00–18:00 ROUND TABLE I: The HMD today and tomorrow: challenges and opportunities
   Moderator: TBA
   Discussants: TBA

18:00 – 19:00 DINNER AT THE HARANK HAUS

19:00–20:00 Poster session
Tuesday, May 14

9:00–9:40 KEYNOTE TALK IV • Chair: Magali Barbieri

Fanny Janssen (PRC, UG)
The role of smoking, alcohol and obesity in past and future mortality levels and trends in Europe

9:40–10:20 SESSION IV: Causes of death and determinants I • Chair: Magali Barbieri

- Doblhammer-Reiter, G.; Fritze, T. (UniRostock)
  Dementia may become the leading disease at the time of death in Germany: probabilistic disease-projections among the deceased
- Sasson, I. (TAU); Hayward, M. (UT Austin)

10:20–10:40 COFFEE BREAK

10:40–11:20 KEYNOTE TALK V • Chair: Domantas Jasilionis

Vladimir M. Shkolnikov (MPIDR, HSE)
TBA

11:20–12:00 SESSION V: Causes of death and determinants II • Chair: Domantas Jasilionis

- Trias-Llimós, S. (LSHTM); Leon, DA (LSHTM, UiT)
  Linking multiple risk factors to cardiovascular mortality for understanding country differences
- Andreev, E. (HSE); Timonin, S. (HSE); Shkolnikov, V. (MPIDR, HSE)
  The dramatic increase in HIV/AIDS mortality in Russia. What do vital statistics tell us?

12:00–13:00 LUNCH BREAK

13:00–14:30 SESSION VI: Modelling mortality patterns • Chair: Trifon Missov

- Nemeth, L. (MPIDR)
  Mortality pattern at adult and older ages
- Noymer, A. (UCI)
  Using Benford’s law to access life table ensembles: HMD and the WHO Model life tables
- Reynolds, N. (Brown)
  Increasing mortality of white Americans, a systematic deviation from Gompertz law, and a trend break in cohort health
- Swanson, D. (UCR)
  Constructing Life Tables from the Kaiser Permanente Smoking Study and Applying the Results to Models Designed to assess the Population Health Impact of Reduced Risk Tobacco Products
14:30–14:45 COFFEE BREAK

14:45–15:45 SESSION VI: Sex differentials ● Chair: Inna Danilova

- **Booth, H. (ANU); Qi, C. (ANU); Canudas-Romo, V. (ANU)**
  An extended decomposition of change in the sex-gap in life expectancy: elucidating the underlying mechanism

- **Van Raalte, A. (MPIDR); Aburto, JM. (MPIDR); Kashyap, R. (OX); Zarulli, V. (SUD)**
  Sex differences in life expectancy and lifespan dispersion: long-term patterns and emerging crossovers

- **Wang, J. (HKU); Cheung, KSL. (RUC); Robine, JM. (INED)**
  Sex Difference of the Compression of Mortality in Mainland China--Based on the Adjusted Census Data using Brass-logit method

15:45–16:00 BREAK

16:00–17:00 SESSION VII: Spatial inequalities ● Chair: Pavel Grigoriev

- **Barbieri, M. (UCB, INED); Oullette, N. (UdeM); Riffe, T. (MPIDR); Winant, C. (UCB)**
  Regional diffusion of the cardiovascular revolution in the United States

- **Klüsener, S. (BiB); Van Raalte, A. (MPIDR); Oksuzyan, A. (MPIDR); Grigoriev, P. (MPIDR)**
  Small regional disparities in mortality with large regional disparities in economic conditions: the case of Germany

- **Bonnet, F. (PSE); D’Albis, H. (PSE)**
  Spatial Inequality in Mortality in France over the past two centuries

17:00–18:00 ROUND TABLE II: Recent trends and future of longevity

  **Moderator:**

  **Discussants:**

18:00 END OF THE SYMPOSIUM
POSTER PRESENTATIONS

Posters should be presented during the entire first day of the Symposium

- **Ainhoa Alustiza Galarza** (MPIDR)  
  *Human Life-Table Database: Data Resource Profile*

- **Mark Brandenburg** (BMC)  
  *Native American Mortality Time Trends in Oklahoma: An Ecological Study of the 45-54-Year-Old Age Group (1999-2016)*

- **Eralda Gjika** (University of Tirana), **Olgerta Idrizi** (University of Albania), **Lule Basha** (University of Tirana), **Eni Dhamo** (University of Tirana)  
  *Analysis of Life Expectancy and Mortality Rate in Western Balkan Region. Projections for Albania*

- **Olga Grigoriev** (MPIDR), Rembrandt Scholz (Berlin Institute for Social Research), Gabriele Doblhammer (UniRostock)  
  *Mortality of people with reduced earning capacity: does it contribute to the difference between East and West Germany?*

- **Reiko Hayashi**, **Futoshi Ishii**, **Motomi Beppu**, **Yu Korekawa** (all - IPSS), **Emiko Shinohara** (University of Tokyo)  
  *The trend of sudden death in Japan*

- **Yu-Chieh Hsu** (UNDP), **Heriberto Tapia** (UNDP)  
  *Older people facing new inequalities: life expectancy in Chile*

- **Elena Papanova** (HSE)  
  *Applying the Method of Extinct Generations for Estimating Old-Age Population and Mortality in Moscow*

- **Filipe Ribeiro** (University of Évora, Portugal)  
  *Revisiting life tables construction: how different laws can influence mortality forecasts*

- **Daniel Schneider** (MPIDR)  
  *Software Module(s) to Access and Work with Data from the Human Mortality Database*

- **Aleksei Shchur** (HSE)  
  *Mortality differentials in Russian biggest cities and their surrounding territories*

- **David Swanson** (University of Washington and University of California Riverside, USA)  
  *Estimating the underlying infant mortality rates for small populations: A case study of counties in Estonia*

- **Annelene Wengler** (RKI), **Janko Leddin** (RKI), **Alexander Rommer** (RKI), **Elena von der Lippe** (RKI)  
  *Redistribution of ill-defined codes in the causes of death statistics*

- **International Database on Longevity: Data Resource Profile**
List of institutions abbreviations

ANU  Australian National University (Canberra, Australia)
BiB  Federal Institute for Population Research (Wiesbaden, Germany)
BMC  Bristol Medical Center (UK)
Brown  Brown University (Providence, USA)
CEER  Centro de Estudios Económicos Regionales (Cartagena, Colombia)
CIDR  CUNY Institute for Demographic Research (New York, USA)
HKU  University of Hong Kong, Mindlink Research Centre (Hong Kong)
HSE  National Research University Higher School of Economics (Moscow, Russia)
INED  Institut National d’Études Démographiques (Paris, France)
IPSS  National Institute of Population and Social Security Research (Japan)
LSHTM  London School of Hygiene and Tropical Medicine (London, UK)
MPIFDR  Max Planck Institute for Demographic Research, (Rostock, Germany)
NYU  New York University (New York, USA)
ÖAW  Austrian Academy of Sciences (Vienna, Austria)
OSU  The Ohio State University (Columbus, USA)
OX  Nuffield College, University of Oxford (Oxford, UK)
Paris1  Université Paris 1 Panthéon Sorbonne (Paris, France)
PennPSC  Population Studies Center, University of Pennsylvania (Philadelphia, USA)
PRC  Population Research Centre (Groningen, Netherlands)
PSE  Paris School of Economics (Paris, France)
RKI  Robert Koch Institute (Berlin, Germany)
RUC  Renmin University of China (Beijing, China)
SDU  University of Southern Denmark (Odense, Denmark)
TAU  Tel Aviv University (Tel Aviv, Israel)
TLU  Tallinn University (Estonia)
UCB  University of California Berkeley (Berkeley, USA)
UCI  University of California, Irvine (Irvine, USA)
ULouvain  Université Catholique de Louvain (Louvain-la-Neuve, Belgium)
UCR  University of California Riverside (Riverside, USA)
UdeM  Université de Montreal (Montreal, Canada)
UG  University of Groningen (Groningen, Netherlands)
UH  University of Helsinki (Helsinki, Finland)
UIJT  The Arctic University of Norway (Tromsø, Norway)
UniRostock  University Rostock (Rostock, Germany)
UniTirana  University of Tirana (Albania)
UNPD  United Nations Population Division, United Nations (New York, USA)
UNDP  United Nations Development Programme
UT Austin  University of Texas at Austin (Austin, USA)
VID  Vienna Institute of Demography (Vienna, Austria)