



MAX-PLANCK-INSTITUT
FÜR DEMOGRAFISCHE
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MAX PLANCK INSTITUTE
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RESEARCH

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



May 13-14 2019
Harnack Haus, Berlin

Dates	May 13-14 2019
Location	Goethe Hall, Harnack Haus <i>Ihnestr. 16-2, Berlin (Germany)</i> https://www.harnackhaus-berlin.mpg.de/2316/en
Sponsor	Max Planck Institute for Demographic Research <i>Rostock, Germany</i>
Organizers	Dmitri Jdanov, Domantas Jasilionis, Vladimir Shkolnikov, Magali Barbieri

PROGRAMME

Monday, May 13

8:30–9:00 **Registration**

9:00–9:20 **Welcome and Introduction**

Dmitri Jdanov (MPIDR)

Vladimir M. Shkolnikov (Director of the HMD; MPIDR)

Magali Barbieri (Associate Director of the HMD; UCB and INED)

9:20–10:00 **KEYNOTE TALK I** • *Chair: Jacques Vallin*

Mikko Myrskylä (MPIDR)

Global trends in lifespan variation

10:00–10:30 **COFFEE BREAK**

10:30–12:00 **SESSION I: Mortality patterns and longevity** • *Chair: Vladimir Shkolnikov*

- **Guillot, M.** (PennPSC/INED); **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.** (MPIDR); **Ouellette, N.** (UdEM); **Horiouchi, 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
- **Zheng, H.** (OSU); **Cheng, S.** (NYU)
A simulation study of the role of cohort forces in mortality patterns

12:00–13:00 **LUNCH BREAK**

13:00–14:30 **SESSION II: Frontiers of longevity** • *Chair: France Meslé*

- **Álvarez, J.-A.** (SDU); **Vaupel, J.W.** (SDU)
Centenarian survival: Increasing or stagnating?
- **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.**(UCLouvain); **Herm, A.** (TLU)
Comparing longevity and mortality levels at highest ages with the help of HMD
- **Jasilionis, D.**(MPIDR); **Martikainen, P.**(UH); **Shkolnikov, V.** (MPIDR, HSE)
Educational components of national longevity advances in Nordic countries

14:30–15:00 COFFEE BREAK

15:00–15:40 **KEYNOTE TALK II** • Chair: Dmitri Jdanov

Emilio Zagheni (MPIDR)

Digital trace data for demographic research

15:40–16:40 **SESSION III: Consistency of mortality data** • Chair: Dmitri Jdanov

- **Oeppen, J.** (SDU)
Net-migration in the Human Mortality Database and related databases
- **Noymer, A.** (UCI)
Using Benford's law to assess life table ensembles: HMD and the WHO Model life tables
- **Danilova, I.** (MPIDR)
Consistency of longitudinal time series in cause-specific mortality over the ICD-10 period

16:40–16:50 BREAK

16:50–18:00 **ROUND TABLE I: The HMD today and tomorrow: challenges and opportunities** •

Moderator: Dmitri Jdanov

Discussants:

James Oeppen (SDU)

France Meslé (INED)

Michel Guillot (PennPSC/INED)

Sebastian Klüsener (BiB)

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

19:00–20:00 **Poster session**

Tuesday, May 14

9:00–9:40 **KEYNOTE TALK III** • 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)
“Deaths of despair” revisited: Widening educational disparities in US adult life expectancy, 2010–2017

10:20–10:40 **COFFEE BREAK**

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

Vladimir M. Shkolnikov (MPIDR, HSE)

Life expectancy in Russia: consequences of mortality reversal and components of ongoing improvement

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: Spatial inequalities** • Chair: Pavel Grigoriev

- **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)
- **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

14:30–14:45 COFFEE BREAK

14:45–15:45 **SESSION VII: Sex differentials** • Chair: Gabriele Doblhammer-Reiter

- **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
- **Wang, J.**(HKU); **Cheung, KSL.**(HKU); **Robine, JM.** (INED)
Sex difference of the compression of mortality in mainland china-based on the adjusted census data using brass-logit method
- **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

15:45– 16:00 BREAK

16:00–17:00 **SESSION VIII: Modelling mortality patterns** • Chair: Jim Oeppen

- **Németh, L.** (MPIDR)
Mortality pattern at adult and older ages
- **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

17:00–18:00 **ROUND TABLE II: Recent trends and future of longevity** • Moderator: Jacques Vallin

Discussants:

Vladimir M. Shkolnikov (MPIDR/HSE)
Jean-Marie Robine (INED)
Heather Booth (ANU)
Isaac Sasson (TAU)

18:00 END OF THE SYMPOSIUM

POSTER PRESENTATIONS (Monday, May 13)

Posters will 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)
- **Inna Danilova** (MPIDR), **France Meslé** (INED), **Dmitri Jdanov** (MPIDR), **Markéta Pechholdová** (VŠE), **Domantas Jasilionis** (MPIDR), **Vladimir M. Shkolnikov** (MPIDR), **Jacques Vallin** (INED)
The Human Cause of Death Database
- **Eralda Gjika** (UniTirana), **Olgerta Idrizi** (UniTirana), **Lule Basha** (UniTirana), **Eni Dhamo** (UniTirana)
Analysis of life expectancy and mortality rate in western Balkan region. Projections for Albania
- **Olga Grigoriev** (MPIDR)
International Database on Longevity: data resource profile
- **Olga Grigoriev** (MPIDR), **Rembrandt Scholz** (BIVS), **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** (UTokio)
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** (UEVORA)
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** (CSDE, UCR)
Estimating the underlying infant mortality rates for small populations: A case study of counties in Estonia
- **Annelene Wengler**, **Janko Leddin**, **Alexander Rommer**, **Elena von der Lippe** (all RKI)
Redistribution of ill-defined codes in the causes of death statistics

List of institutions abbreviations

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