Old and New Challenges to Longevity Prospects
The 6th Human Mortality Database Symposium

June 16-17 2022
INED, Paris

Dates	June 16-17, 2022
Location	Salle Sauvy, INED, 9 Cours des Humanités, 93300 Aubervilliers, France (M° line 12, Front Populaire)
Sponsors	INED/iPOPs, CEDA/University of California, Berkeley, Max Planck Institute for Demographic Research
Organizers	Magali Barbieri, Dmitri Jdanov, Domantas Jasilionis, France Mesle

PROGRAMME

Thursday, June 16

8:30–9:00 **Registration**

9:00–10:20 **OPENING SESSION** ● *Chair:* **Magali Barbieri** (UCB and INED; co-Director of the HMD)

Magda Tomassini (Director of the INED)**, Mikko Myrskyla** (Director of the MPIDR)

- *Welcome*

John Wilmoth (UN, founding director of the HMD) and **Vladimir Shkolnikov** (MPIDR, founding director of the HMD)

- *20 years of the HMD project*

Dmitri Jdanov (MPIDR; co-Director of the HMD) and **Magali Barbieri** (UCB and INED; co-Director of the HMD)

- *HMD plans and challenges*

10:20–10:50 COFFEE BREAK

10:50–12:30 **KEYNOTES** ● *Chair: John Wilmoth*

- **Vladimir Canudas Romo** (ANU)
  HMD in the classroom

- **France Meslé** (INED) and **Jacques Vallin** (INED)
  The health transition theory: taking recent mortality changes into account

- **Johan Mackenbach** (Erasmus MC)
  Longevity and the rise and fall of disease

12:30–13:30 LUNCH BREAK

13:30–15:00 **SESSION I: Frontiers of longevity** / in memory of James Vaupel ● *Chair: Jacques Vallin*

- **James Oeppen** (SDU)
  Tribute to James Vaupel

- **Alyson A. van Raalte** (MPIDR)**; Ugofilippo Basellini** (MPIDR, INED)**; Carlo Giovanni Camarda** (INED)**; Marília R. Nepomuceno** (MPIDR)**; Mikko Myrskylä** (MPIDR, UH)
  The dangers of drawing cohort profiles from period data

- **Michel Poulain** (UCLouvain, TLU)**; Anne Herm** (TLU)**; Dany Chambre** (Independent)
  No improvement in survival at extreme age: what the data reveal?

- **Jean-Marie Robine** (INED)**; Carlo-Giovanni Camarda** (INED)
  Measurement and indicators of longevity in HMD

- **Frans van Poppel** (NIDI)**; Peter Ekamper** (NIDI)**; Lenny Stoeldraijer** (CBS)
  Identifying regional environmental conditions affecting longevity: Differences in the chance to become a centenarian in 19th and early 20th century Dutch birth cohorts

15:30–16:40 **SESSION II: Modelling and Forecasting** ● *Chair: Carl Boe*

- **Salvatory R. Kessy** (UNSW, CEPAR)**; Michael Sherris** (UNSW, CEPAR)**; Andrés M. Villegas** (UNSW, CEPAR)**; Jonathan Ziveyi** (UNSW, CEPAR)
  Mortality forecasting using stacked regression ensembles

- **Karim Barigou** (UCBL)**; Pierre-Olivier Goffard** (UCBL)**; Stéphane Loisel** (UCBL)**; Yahia Salhi** (UCBL)
  Bayesian model averaging for mortality forecasting using leave-future-out validation

- **Daniel Meier** (SwissRe)
  Applications of neural networks in a Life & Health context

16:40–16:50 BREAK

16:50–18:00 **ROUND TABLE I: Data revolution(s): challenges and opportunities** ●
Moderator: Dmitri Jdanov

18:00–19:00 RECEPTION

Friday, June 17

9:00–10:30 **SESSION III**: **Mortality at the subnational level** ● *Chair: Domantas Jasilionis*

- **Jim Oeppen** (SDU)
  A Regression Approach to Changes in Life-Table Densities of Deaths at the Sub-National Level

- **Jesús-Daniel Zazueta-Borboa** (NIDI)**; Wanda MJ Van Hemelrijck** (NIDI)**; Pekka Martikainen** (UH,MPIDR)**; Nicolás Zengarini** (ASL TO3)**; Anton E Kunst** (UVA)**; Fanny Janssen** (PRC)
  The contribution of alcohol consumption to past long-term trends in socio-economic inequalities in life expectancy in selected European countries

- **Steven H. Woolf** (VCU)
  Understanding the decline in life expectancy in the United States and the persistence of racial-ethnic inequities: an examination of root causes

- **Fabrice Murtin** (OECD)
  Educational Inequalities in Longevity in OECD Countries Around 2016

10:30–11:00 COFFEE BREAK

11:10–12:30 **SESSION IV: Past and recent mortality: challenges in data** ● *Chair: Vladimir Shkolnikov*

- **Ryan K. Masters** (CU Boulder)**; Steven H. Woolf** (VCU)
  Life Expectancy Declines during the COVID-19 Pandemic and the Worsening US Health Disadvantage: Insights using the US Mortality Database and the Human Mortality Database

- **Nicholas Reynolds** (UOE)**; Jeffrey Lin** (FRB Philadelphia)**; Bryan Stuart** (FRB Philadelphia)
  Worsening Health for Americans Born Since 1947 and the US Life Expectancy Disadvantage

- **Julio Romero Prieto** (LSHTM)**; Andrea Verhulst** (PennPSC)**; Michel Guillot** (INED)
  Assessing the omission of early deaths in historical vital registration data

- **Alexandre Boumezoued** (Milliman R&D)**; Amal Elfassihi** (Milliman R&D)
  Mortality data correction in the absence of monthly fertility records

12:30 – 13:30 LUNCH BREAK

13:30–14:15 **SESSION V: Global views** ● *Chair: Dmitri Jdanov*

- **David Leon** (LSHTM, UiT)
  Climate change, health and longevity

- **Vladimir Shkolnikov** (MPIDR)
  Studying human longevity with the HMD

14:15–14:30 BREAK

14:30–16:00 **SESSION VI: Modelling mortality patterns** ● *Chair: Laszlo Nemeth*

- **Jiaxin Shi** (MPIDR, OX)
  Decomposing the variance of lifespans: A distributional approach

- **Isaac Sasson** (TAU)**; Iñaki Permanyer** (CED)
  Formalizing Shifting Mortality Inequalities: A Multivariate Approach

- **Tim Riffe** (Ikerbasque, UPV/EDU, MPIDR)
  Inferring a mortality gradient from compositional change

- **Ariel Karlinsky** (HUJI)**; Dmitry Kobak** (TU)
  Tracking excess mortality across countries during the COVID-19 pandemic with the World Mortality Dataset

16:00–16:30 COFFEE BREAK

16:30–17:30 **ROUND TABLE II: Recent mortality trends and longevity perspectives** ●
　　　　　　　 Moderator: Magali Barbieri

17:30 END OF THE SYMPOSIUM

POSTER PRESENTATIONS (Thursday, June 16)

Posters will be presented during the entire Symposium. All authors are asked to be around their posters on Thursday from 3:00 pm to 3:30 pm.

- **Arianna Caporali** (INED)**; Étienne Couppié** (INED)**; Iris Hourani** (INED)**; Svitlana Poniakina** (INED)
  INED's Mortality and Health Databases: Valuable Sources for Comparative Research

- **László Németh** (MPIDR)
  HMD scripts

- **Saddaf Naaz Akhtar** (CSRD)**; Jon Anson** (BGU)
  Does greater longevity come with lower life disparity in India? A comparative study between Kerala and Delhi

- **Filipe Ribeiro** (UEVORA)
  Dynamic laws of adult mortality

- **Antonino Polizzi** (OX)**; Andrea M. Tilstra** (OX)
  Implications of rising female reproductive-age mortality for fertility in the United States, 2010–2019

- **Markéta Majerová** (VŠE)**; Radim Krupička** (CTU)
  Modelling Covid-19 spread in Czechia: comparison of agent-based simulation and observed excess deaths

- **Magdalena Muszyńska-Spielauer** (ÖAW)**; Tim Riffe** (Ikerbasque, UPV/EDU, MPIDR)
  Life expectancy at current rates and current population composition

- **Rebecca Mancy** (Glas.)**; Max Schroeder** (Glas.)**; Spyridon Lazarakis** (LUMS)**; Konstantinos Angelopoulos** (Glas.)
  How have pandemics ended? Two decades of recurrent outbreak risk following the main waves

- **Munir Hiabu** (KU)**; Andrés M. Villegas** (CEPAR, UNSW)
  Estimating and modelling mortality rates in the absence of population denominators

- **Liliana Patricia Calderón Bernal** (MPIDR, SU)
  Mortality statistics in Colombia, 1998–2019. An analysis of demographic data source

- **Daumantas Stumbrys** (VU)**; Domantas Jasilionis** (MPIDR, VMU)**; Dainius Pūras** (VU)
  The burden of mental health-related mortality in the Baltic States in 2007-2018

- **Tianyu Shen** (ANU)**; Vladimir Canudas-Romo** (ANU)
  The contribution of subnational changes in the national population growth

- **Iñaki Permanyer** (CED)**; Serena Vigezzi** (SDU)
  Cause-of-death drivers of lifespan inequality dynamics

- **Surender Prasad Pandey** (UOM)
  Assessment of death registration completeness and estimation of the level and differentials of national and subnational life expectancy in Nepal

- **Mary Abed Al Ahad** (UOSA)**; Urška Demšar** (UOSA)**; Frank Sullivan** (UOSA)**; Hill Kulu** (UOSA)
  The association between long-term 16-years exposure to air pollution and mortality: The case of Scotland (2002-2017)

- **Andrew Scott** (LBS, CEPR)**; Julian Ashwin** (LBS)
  Estimating Mortality Curves and Implications for Future Life Expectancy with a Dynamic State Space Model

- **Lisa Koerber** (MPIDR)**; Ainhoa Alustiza Galarza** (MPIDR)
  Short Term Mortality Fluctuations data series at the Human Mortality Database

- **Marina Kolobova** (MPIDR)
  Variation in burden of COVID-19 pandemic across the federal states in Germany: the role of reported morbidity and selected structural factors

- **Christos H. Skiadas** (TUC) - *virtually*
  Kane Tanaka's 119 birthday and the Supercentenarians' age estimation. Further remarks on the oldest old record of 122 years by Jeanne Calment

Acknowledgements

List of institutions abbreviations

ANU	Australian National University *(Canberra, Australia)*
ASL TO3	Azienda Sanitaria Locale Torino 3 *(Italy)*
BGU	Ben-Gurion University of the Negev *(Beersheba, Israel)*
BiB	Federal Institute for Population Research *(Wiesbaden, Germany)*
BIVS	Berlin Institute for Comparative Social Research *(Germany)*
BMC	Bristol Medical Center *(UK)*
Brown	Brown University *(Providence, USA)*
CBS	Statistics Netherlands *(Netherlands)*
CED	Centre for Demographic Studies, Autonomous University of Barcelona *(Barcelona, Spain)*
CEER	Centro de Estudios Económicos Regionales *(Cartagena, Colombia)*
CEPAR	ARC Centre of Excellence in Population Ageing Research, University of New South Wales *(Sydney, Australia)*
CEPR	Centre for Economic Policy Research *(London, UK)*
CIDR	CUNY Institute for Demographic Research *(New York, USA)*
CSDE	Center for Studies in Demography & Ecology, University of Washington *(Washington, USA)*
CSRD	Centre for the Study of Regional Development, Jawaharlal Nehru University *(New Delhi, India)*
CTU	Czech Technical University *(Prague, Czechia)*
CU Boulder	University of Colorado Boulder *(Boulder, USA)*
FRB Philadelphia	Federal Reserve Bank of Philadelphia *(Philadelphia, USA)*
Glas.	University of Glasgow *(Glasgow, UK)*
HKU	University of Hong Kong, Mindlink Research Centre *(Hong Kong)*
HSE	National Research University Higher School of Economics *(Moscow, Russia)*
HUJI	Hebrew University of Jerusalem *(Jerusalem, Israel)*
Ikerbasque	Basque Foundation for Science *(Bilbao, Spain)*
INED	Institut National d'Études Démographiques *(Paris, France)*
IPSS	National Institute of Population and Social Security Research *(Japan)*
KU	University of Copenhagen *(Copenhagen, Denmark)*
LBS	London Business School *(London, UK)*
LSHTM	London School of Hygiene and Tropical Medicine *(London, UK)*
LUMS	Lancaster University Management School *(Lancaster, UK)*
MPIDR	Max Planck Institute for Demographic Research, *(Rostock, Germany)*

NIDI	Netherlands Interdisciplinary Demographic Institute *(Den Haag, Netherlands)*
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)*
SU	Stockholm University (Stockholm, Sweden)
TAU	Tel Aviv University *(Tel Aviv, Israel)*
TLU	Tallinn University *(Tallinn, Estonia)*
TU	University of Tübingen *(Tübingen, Germany)*
TUC	Technical University of Crete *(Chania, Greece)*
UCB	University of California Berkeley *(Berkeley, USA)*
UCBL	Université Claude-Bernard Lyon 1 *(Lyon, France)*
UCI	University of California, Irvine *(Irvine, USA)*
UCLouvain	Université Catholique de Louvain *(Louvain-la-Neuve, Belgium)*
UCR	University of California Riverside *(Riverside, USA)*
UdeM	Université de Montreal *(Montreal, Canada)*
UEVORA	University of Évora *(Évora, Portugal*)
UG	University of Groningen *(Groningen, Netherlands)*
UH	University of Helsinki *(Helsinki, Finland)*
UiT	The Arctic University of Norway *(Tromsø, Norway)*
UniRostock	University Rostock *(Rostock, Germany)*
UniTirana	University of Tirana (*Tirana, Albania*)
UNPD	United Nations Population Division, United Nations *(New York, USA)*
UNDP	United Nations Development Programme
UOE	University of Essex *(Colchester, UK)*
UOM	University of Melbourne *(Melbourne, Australia)*
UOSA	University of St. Andrews *(Scotland, UK)*
UPV/EHU	University of the Basque Country *(Biscay, Spain)*
UNSW	University of New South Wales *(Sydney, Australia)*
UT Austin	University of Texas at Austin *(Austin, USA)*
UTokio	University of Tokyo (*Tokio, Japan*)
UVA	University of Amsterdam *(Amsterdam, Netherlands)*
VCU	Virginia Commonwealth University *(Richmond, USA)*
VID	Vienna Institute of Demography *(Vienna, Austria)*
VŠE	University of Economics Prague (*Prague, Czech Republic*)
VU	Vilnius University *(Vilnius, Lithuania)*
VMU	Vytautas Magnus University *(Kaunas, Lithuania)*