

# The 6<sup>th</sup> Human Mortality Database Symposium



## Satellite meeting

### Monitoring subnational variations in mortality

#### Data and methodological challenges

INED, Paris, France

- Objective** The aim of the HMD Symposium satellite meeting is to discuss methodological and data advances in producing reliable mortality estimates at the subnational level (regional units and socio-economic groups) and to present studies highlighting the usefulness of such data. This satellite meeting will explore the possibility to reinforce ongoing work on producing regional mortality estimates and extend the HMD approach to monitoring mortality at the sub-national level.
- Date** 18 June 2022
- Location** INED, 9 cours des Humanités, CS 50004, 93322 Aubervilliers (Paris), France,  
<https://www.ined.fr/en/practical-information/>
- Sponsor** French Institute for Demographic Studies (INED/iPOPs), Paris, France;  
Department of Demography at the University of California, Berkeley, USA;  
Max Planck Institute for Demographic Research, Rostock, Germany
- Organizers** Domantas Jasilionis (MPIDR), Magali Barbieri (UCB/INED), Dmitri Jdanov (MPIDR), France Meslé (INED)

# PROGRAMME

09:30 – 09:35 **Introduction**

**Domantas Jasilionis** (*MPIDR, Germany*)

09:35 – 11:15 **SESSION I: HMD SUBNATIONAL DATABASE PROJECTS** *Chair: Domantas Jasilionis*

**Part 1: Flash presentations of subnational projects maintained by the HMD team**

**Dmitri Jdanov** (*MPIDR, Germany*), **Magali Barbieri** (*UCB, USA / INED, France*):  
HMD subnational projects

**Magali Barbieri** (*UCB, USA / INED, France*), **Denys Dukhovnov** (*UCB, USA*), **Celeste Winant** (*UCB, USA*)  
United States Mortality DataBase (USMDB) and Canadian Human Mortality Database (CHMD/BDLC)

**Sebastian Klüsener** (*BiB, Germany*), **Dmitri Jdanov** (*MPIDR, Germany*):  
German HMD

**Part 2: Independent HMD-related subnational projects**

**Florian Bonnet** (*INED, France*), **Giancarlo Camarda** (*INED, France*)  
French HMD and its use for monitoring the Covid-19 pandemic at the local level

**Keita Suga** (*NIPSSR, Japan*), **Futoshi Ishii** (*Keio University, Japan*), **Motomi Beppu** (*NIPSSR, Japan*)  
Regional Japanese Human Mortality Database: Methods and Extensions to Monthly Deaths

**Sergei Timonin** (*MPIDR, Germany*)  
Research on subnational mortality in Russia: new challenges and opportunities

**Vladimir Canudas-Romo** (*ANU, Australia*)  
Australian HMD

DISCUSSION

**11:15 – 11:30 BREAK**

11:30 – 13:00 **SESSION II : CHALLENGES AND INNOVATIONS IN MEASURING SUBNATIONAL MORTALITY** *Chair: Dmitri Jdanov*

**Theo Rashid** (*ICL, UK*), **James E. Bennett** (*ICL, UK*), **Christopher J Paciorek** (*UCB, USA*), **Yvonne Doyle** (*LSHTM, UK*), **Jonathan Pearson-Stuttard** (*ICL, UK*), **Seth Flaxman** (*UO, UK*), **Daniela Fecht** (*ICL, UK*), **Mireille B Toledano** (*ICL, UK*), **Guangquan Li** (*NU, UK*), **Hima I Daby** (*ICL, UK*), **Eric Johnson** (*ICL, UK*), **Bethan Davies** (*ICL, UK*), **Majid Ezzati** (*ICL, UK*)  
The changing mortality patterns in 6.791 communities in England: high-resolution spatiotemporal analysis of civil registration data

**Ameer Dharamshi** (*University of Toronto, Canada*), **Monica Alexander** (*University of Toronto, Canada*), **Celeste Winant** (*UCB, USA*), **Magali Barbieri** (*UCB, USA / INED, France*)  
A Bayesian Hierarchical Model for Jointly Estimating Subnational Mortality for Multiple Populations

**Annika Ziegler** (*Ad Res Advanced Reinsurance Services GmbH, Germany*), **Claus Neidhardt** (*Ad Res Advanced Reinsurance Services GmbH, Germany*), **Kai Kaufhold** (*Ad Res Advanced Reinsurance Services GmbH, Germany*)  
Penalised Quasi-Likelihood Mortality Projections: an application to small population mortality modelling

**Nazrul Islam** (*Oxford, UK*)  
COVID-19 and socioeconomic inequality of mortality in England

**Isabella Marinetti** (MPIDR)  
Effects of Covid-19 pandemic on life expectancy and premature mortality in 2020 and 2021 in German federal states

### **13:00 – 13:45 LUNCH BREAK**

13:45 – 14:45 **SESSION III: NEW EVIDENCE ON SUBNATIONAL VARIATIONS IN MORTALITY** *Chair: Magali Barbieri*

**Pavel Grigoriev** (*BiB, Germany*)  
REDIM project: understanding regional cause-specific mortality trends and patterns in Europe

**Esther Denecke** (*MPIDR/Rostock University, Germany*), **Pavel Grigoriev** (*BiB, Germany*), **Roland Rau** (*Rostock University/MPIDR, Germany*)  
Evaluation of small-area estimation methods for mortality schedules

**Markus Sauerberg** (*BiB, Germany*); **Pavel Grigoriev** (*BiB, Germany*), **Sebastian Klüsener** (*BiB, Germany*)  
Narrowing Sex Gap in Mortality in seven European countries: Regional Differences and Cause-Specific Contributions

**Michael Mühlichen** (*BiB, Germany*), **Pavel Grigoriev** (*BiB, Germany*)  
Spatial variation of excess mortality in Germany in 2020 by age and cause of death.

### **14:45–15:00 COFFEE BREAK**

15:00 – 16:00 **ROUND TABLE DISCUSSION: EXPANDING SUBNATIONAL HMDS: OPPORTUNITIES AND METHODOLOGICAL ISSUES**

**Introduction: Domantas Jasilionis** (*MPIDR, Germany*)

**Moderator: Magali Barbieri** (*UCB, USA / INED, France*)

**16:00 - 18:00 HMD team meeting with invited guests**

### **ACKNOWLEDGEMENTS**

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**List of institutions' abbreviations: see HMD Symposium programme**