Recent Trends and Future Uncertainties in Longevity

The 5th Human Mortality Database Symposium
The Human Mortality Database: an introductory word

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In 1994-96 Väinö Kannisto published two books documenting advances in survival and longevity on the basis of data from 28 developed countries.

The books contained numerous and detailed data tables. In 1988-2001 Thatcher, Vaupel and Kannisto published important works on old-age survival, assessment of data quality, and re-estimation of populations aged 80+.
Others who have worked for this project in the past, or for one of its immediate predecessors, include:

**core HMD team:** Evgeny Andreev (MPIDR), Kirill Andreev (MPIDR/UCB), Mila Andreeva (UCB), Vladimir Canudas-Romo (UCB), Rembrandt Scholz (MPIDR), Sebastian Klusener (MPIDR), Tim Riffe (UCB)

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Areas of active HMD use

- Population and mortality forecasting
- Convergence/divergence across space and time
- Advances of survival and longevity
- Mortality surfaces across ages, time, and cohorts
- Methods for measurement and decomposition
- Mortality disparity across individuals and populations
- Methodology toolkits and software
- Education
  - Source of population-level facts and references in epidemiology, public health, human biology, econometrics and other disciplines
- Source of MLT data at the UN Population Division
Background

• Goal of the HMD:
  To provide *detailed high-quality* mortality and population data free of charge to all persons interested in the history of human longevity

• Four guiding principles:
  – Comparability;
  – Flexibility;
  – Accessibility;
  – Reproducibility.
What is the HMD today?

- World’s leading data resource on mortality in developed countries
- Detailed historical data and supporting documentation for 40 national populations
- “Gold standard” for demographic databases
- **50,000+ registered users:**
  - Academics (**5,000+ publications**)  
  - Students
  - Actuaries
  - Policy analysts
  - Journalists
  - Other corporations (pension funds, banks, etc...)**
HMD funders and sponsors

Grants and donations:

Support provided by the U.S. National Institute on Aging (grants R01-AG011552 and R01-AG040245), the U.K. Institute and Faculty of Actuaries, the Canadian Institute of Actuaries, the Dutch Royal Actuarial Association, AXA, Hannover-Re, Milliman-France, RGA, SCOR and the Society of Actuaries.

Disclaimer: The authors is solely responsible for the content of this presentation, which does not necessarily represent the official views of the National Institutes of Health and other sponsors.
Core activities:
HMD country updates

• Update of all HMD countries on rotating basis
• Priority countries:
  – The US
  – The UK and components
  – Germany
  – Japan
  – France
  – Russia
  – Sweden
  – Canada
Core activities: Investigate new countries

• Recently added countries:
  – Greece
  – Croatia
  – South Korea

• Other countries recently investigated
  – Costa Rica
  – Moldova

• In progress / plans
  – Hong Kong
  – Serbia
  – Romania
  – EU28
Ongoing work and future plans

• Improving of the HMD methodology
• HMD R packages

• Adding cause-of-death data
• Sub-national data
• Less (statistically) developed countries
  • Latin America
  • China
  • India
Monday, May 13

Keynote talks: 9:20 and 15:00

Poster session: coffee breaks at 10:00 and 14:30

Lunch: 12:00 – 13:00

Round table “The HMD today and tomorrow: challenges and opportunities”: 16:50

Dinner at the Harnack Haus: 18:00 – 20:00 (bar open until 22:00)

Tuesday, May 14

Keynote talks: 9:00 and 10:40

Lunch: 12:00 – 13:00

Round table “Recent trends and future of longevity”: 17:00 – 18:00

Wednesday, May 15

Satellite meeting “Mortality data and methodological approaches in estimating mortality in developing countries”