

Newsletter - Scor Chair on Mortality Research

Second quarter 2025

This quarter, our team achieved a significant milestone: we submitted our ninth article, fulfilling the target outlined in our proposal. But this is not the end with several more articles currently in progress. We also had one paper accepted for publication and another one published. In addition, we had our 3rd workshop organized in collaboration with SCOR, participated in two major demographic conferences and have been accepted to present at two additional conferences scheduled for later this year.

Research and papers

The paper “[What if Dependent Causes of Death Were Independent?](#)” by *Elizaveta Ukolova* has been published in June in *Epidemiological Methods*. The study examines the association between causes of death and explores how breaking dependencies between leading cause-of-death pairs in the USA impacts the overall cause-of-death structure.

You can access the paper at this link: <https://www.degruyterbrill.com/document/doi/10.1515/em-2024-0033/html>

The paper “[Are contributory causes of death in Part 2 of the death certificate mediators of chains of morbid events leading to death?](#)” by *Elizaveta Ukolova* have been accepted for publication in *Population Health Metrics*. This paper uses causal pie models to investigate how contributory causes of death interact and influence the sequence of events leading to mortality.

Elizaveta Ukolova and Marie-Pier Bergeron-Boucher submitted a paper titled “[Multiple-Cause Mortality in the U.S., 2000–2021: Insights from Pattern-of-Failure Life Tables](#)”. The paper uses pattern-of-failure life tables to explicitly account for disease interdependence among all causes reported on the death certificate and remeasure more accurately the levels and trends in the disease burden in the U.S. between 2000 and 2021.

Additionally, *Elizaveta Ukolova and Cosmo Strozza* submitted an article this June titled “[Mortality Patterns in Multimorbid Populations: Insights from the Czech National Health Registry \(2014-2023\)](#)”. The paper studies the development of multimorbidities over time on a nationwide scale in Czechia and changes in mortality by multimorbidity.

Conferences and dissemination

^{3rd} SCOR seminar, Odense Denmark, 3-4 April 2025

- Cosmo Strozza, Elizaveta Ukolova and Marie-Pier Bergeron Boucher presented their research on “Understanding End-of-Life Multimorbidity: An Analysis of Multiple Causes of Death in Denmark”.
- Elizaveta Ukolova presented her ongoing work titled “Simplex plots and Lexis surface plots for visualizing disease dynamics in the lethal process”
- “Quantifying harvesting: Estimating and forecasting the effect of mortality shocks on population dynamics” by Trifon Missov was presented.

2025 Annual Meeting of the Population Association of America in Washington DC United States, 10-13 April 2025

Check the program: <https://submissions.mirasmart.com/PAA2025/Itinerary/EventsAAG.aspx>

- Trifon Missov presented his ongoing work on “Assessing and Predicting the Impact of Mortality Shocks on Population Trends” in the session Innovative Methods in the Analysis of Infectious Disease.
- “Understanding End-of-Life Multimorbidity: An Analysis of Multiple Causes of Death in Denmark” by Cosmo Strozza, Elizaveta Ukolova and Marie-Pier Bergeron-Boucher was presented in the session Chronic Disease and Multimorbidity Burden Across High-Income Countries.
- Marie-Pier Bergeron-Boucher presented her ongoing work with co-authors Sergi Trias-Llimós and Aline Désesquelles titled “Diversity in Causes of Death: A New Approach Using Multiple Causes-of-Death Life Tables” in the poster session Data and Methods/Other.

SCOR Webinar on multiple causes of death, 21 May 2025, Online

Marie-Pier Bergeron-Boucher, Cosmo Strozza, Elizaveta Ukolova presented recent trends in multiple causes of death development. New findings on their dynamics, including accuracy, diversity, competing risk, association and their effect on mortality risks, were also presented.

^{23rd} Nordic Demographic Symposium in Middelfart Denmark, 10-12 June 2025.

Check the program:

https://demografi.dk/dokumenter/NordicDemographicSymposium2025_program.pdf

- Competing Causes of Death: Quantifying the Probability of Dying from One Cause Before Another, by Marie-Pier Bergeron-Boucher, Elizaveta Ukolova and Cosmo Strozza has been presented in the session Multimorbidity and Causes of Death.
- Elizaveta Ukolova and Cosmo Strozza presented their work titled Bridging Morbidity and Mortality: Analysis of Mortality by Disability and Interrelated Causes of death using Czech administrative data in a poster session.

- *Cosmo Strozza, Elizaveta Ukolova and Marie-Pier Bergeron Boucher* presented once more their research on “[Understanding End-of-Life Multimorbidity: An Analysis of Multiple Causes of Death in Denmark](#)” in a poster session.
- *Silvia Rizzi* presented a paper co-authored by *Ainhoa-Elena Leger* and *Ugo Filippo Basellini* titled “[Modelling and short-term forecasting of seasonal mortality](#)” in a poster session.

Royal Statistical Society (RSS) International Conference 2025 in Edinburgh Scotland, 1-4 September 2025.

Check the program: <https://virtual.oxfordabstracts.com/event/40660/program>

- *Impact of the COVID-19 pandemic on cohort life expectancy* by *Silvia Rizzi* has been accepted in the rapid-fire talks session.

6th Multicause Workshop in Barcelona Spain, 16-17 October 2025

Program not yet available.

- *Marie-Pier Bergeron-Boucher* will present two of her ongoing projects: “[Competing Causes of Death: Quantifying the Probability of Dying from One Cause Before Another](#)” and “[Diversity in Causes of Death: A New Approach Using Multiple Causes of Death Life Tables](#)”.
- *Cosmo Strozza* will present his work on “[Understanding End-of-Life Multimorbidity: An Analysis of Multiple Causes of Death in Denmark](#)”.
- *Elizaveta Ukolova* will present her work titled “[Is End-of-Life Morbidity Different in Deaths with Multiple Versus Single Causes?](#)”