





Mortality and Longevity



Aging and Retirement

Trends In Life Expectancy And Lifespan Variation After Retirement









Trends In Life Expectancy And Lifespan Variation After Retirement

Jesús-Adrián Álvarez, University of Southern Denmark Søren Kjærgaard, University of Southern Denmark Malene Kallestrup-Lamb, Aarhus University James W. Vaupel, University of Southern Denmark

Abstract

It is well known that life expectancy has increased over time. As a result, individuals spend more time in retirement compromising the stability of national pension systems. Recent reforms to pension systems aim to alleviate this issue by increasing retirement ages so that life expectancy at retirement remains constant over time. However, life expectancy does not describe the complete demographic panorama after retirement. The variation of individual lifespans and its effects in pension systems have been largely overlooked in the definition of retirement ages.

In this study we analyze trends in life expectancy and lifespan variation after retirement by socioeconomic groups. We compare two demographic settings arising from a fixed retirement age against a moving retirement age linked to changes in life expectancy. We show that while life expectancy remains constant after the proposed retirement age, higher variation of lifespans persists affecting lower socioeconomic groups.

Keywords: longevity, socioeconomic disparities, lifespan variation

About The Society of Actuaries

With roots dating back to 1889, the <u>Society of Actuaries</u> (SOA) is the world's largest actuarial professional organizations with more than 31,000 members. Through research and education, the SOA's mission is to advance actuarial knowledge and to enhance the ability of actuaries to provide expert advice and relevant solutions for financial, business and societal challenges. The SOA's vision is for actuaries to be the leading professionals in the measurement and management of risk.

The SOA supports actuaries and advances knowledge through research and education. As part of its work, the SOA seeks to inform public policy development and public understanding through research. The SOA aspires to be a trusted source of objective, data-driven research and analysis with an actuarial perspective for its members, industry, policymakers and the public. This distinct perspective comes from the SOA as an association of actuaries, who have a rigorous formal education and direct experience as practitioners as they perform applied research. The SOA also welcomes the opportunity to partner with other organizations in our work where appropriate.

The SOA has a history of working with public policymakers and regulators in developing historical experience studies and projection techniques as well as individual reports on health care, retirement and other topics. The SOA's research is intended to aid the work of policymakers and regulators and follow certain core principles:

Objectivity: The SOA's research informs and provides analysis that can be relied upon by other individuals or organizations involved in public policy discussions. The SOA does not take advocacy positions or lobby specific policy proposals.

Quality: The SOA aspires to the highest ethical and quality standards in all of its research and analysis. Our research process is overseen by experienced actuaries and non-actuaries from a range of industry sectors and organizations. A rigorous peer-review process ensures the quality and integrity of our work.

Relevance: The SOA provides timely research on public policy issues. Our research advances actuarial knowledge while providing critical insights on key policy issues, and thereby provides value to stakeholders and decision makers.

Quantification: The SOA leverages the diverse skill sets of actuaries to provide research and findings that are driven by the best available data and methods. Actuaries use detailed modeling to analyze financial risk and provide distinct insight and quantification. Further, actuarial standards require transparency and the disclosure of the assumptions and analytic approach underlying the work.

Society of Actuaries 475 N. Martingale Road, Suite 600 Schaumburg, Illinois 60173 www.SOA.org