VOLUME 31 - ARTICLE 42 | PAGES 1275-1296

Maternal longevity is associated with lower infant mortality

BY Graziella Caselli, Enrica Lapucci, Rosa Maria Lipsi, Lucia Pozzi, Giovannella Baggio, Ciriaco Carru, Luca Deiana, Claudio Franceschi, James W. Vaupel

DOWNLOAD PDF

SUBMIT A RESPONSE LETTER

DATE RECEIVED: 28 Jun 2014
DATE PUBLISHED: 25 Nov 2014

WORD COUNT: 2618

KEYWORDS: AKeA2 survey, centenarians, infant mortality, longevity,

Sardinia

DOI: 10.4054/DemRes.2014.31.42

Abstract

Objective: Referring to the multidisciplinary and multipurpose survey AKeA2, and focusing on family genealogy data on centenarian women and controls, this paper aims to verify the hypothesis that maternal longevity is associated with lower infant mortality in offspring, after having controlled for fertility characteristics, familial longevity and some contextual variables.

Methods: The association between the longevity of a mother and her children's infant mortality level was assessed using a multivariate Poisson Regression Model with robust estimates, which is suitable for estimating consistently and efficiently the relative risk when binary data are used.

Results: Our results show an association between longevity and infant mortality among the children of the Sardinians who survived to become centenarians. Infant mortality is significantly lower for children belonging to a mother born and living in Sassari and Oristano than Nuoro, close to each other and both located on the Western coast.

Author's Affiliation

```
Graziella Caselli - Università degli Studi di Roma "La Sapienza", Italy [ EMAIL]

Enrica Lapucci - Università degli Studi di Roma "La Sapienza", Italy [ EMAIL]

Rosa Maria Lipsi - Italian National Institute of Statistics (ISTAT)., Italy [ EMAIL]

Lucia Pozzi - University of Sassari, Italy [ EMAIL]

Giovannella Baggio - University of Padua, Italy [ EMAIL]

Ciriaco Carru - University of Sassari, Italy [ EMAIL]

Luca Deiana - University of Sassari, Italy [ EMAIL]

Claudio Franceschi - University of Bologna, Italy [ EMAIL]

James W. Vaupel - Max Planck Institute for Demographic Research, Germany [ EMAIL]
```

Other articles by the same author/authors in Demographic Research

» Demographic characteristics of Sardinian centenarian genealogies: Preliminary results of the AKeA2 study

VOLUME 32 - ARTICLE 37

» The Gompertz force of mortality in terms of the modal age at death

VOLUME 32 - ARTICLE 36

» Unobserved population heterogeneity: A review of formal relationships

VOLUME 31 - ARTICLE 22

» Socioeconomic status and fertility before, during, and after the demographic transition: An introduction

VOLUME 31 - ARTICLE 7

» Fertility transition and social stratification in the town of Alghero, Sardinia (1866-1935)

VOLUME 30 - ARTICLE 28

» The difference between alternative averages

VOLUME 27 - ARTICLE 15

» Attrition in heterogeneous cohorts

VOLUME 23 - ARTICLE 26

» Senescence vs. sustenance: Evolutionary-demographic models of aging

VOLUME 23 - ARTICLE 23

» Total daily change with age equals average lifetime change

VOLUME 22 - ARTICLE 36

» Survival as a Function of Life Expectancy

VOLUME 21 - ARTICLE 29

» The age separating early deaths from late deaths

VOLUME 20 - ARTICLE 29

» Life lived and left: Carey's equality

VOLUME 20 - ARTICLE 3

» Formal Relationships: Introduction and Orientation

VOLUME 20 - ARTICLE 1

» Survival differences among the oldest old in Sardinia: who, what, where, and why?

VOLUME 14 - ARTICLE 13

» The relative tail of longevity and the mean remaining lifetime

VOLUME 14 - ARTICLE 7

» Lifesaving, lifetimes and lifetables

VOLUME 13 - ARTICLE 24

» The effects of war losses on mortality estimates for Italy: A first attempt

VOLUME 13 - ARTICLE 15

» Oldest Old Mortality in China

VOLUME 8 - ARTICLE 7

» Life Expectancy at Current Rates vs. Current Conditions: A Reflexion Stimulated by Bongaarts and Feeney's "How Long Do We Live?"

VOLUME 7 - ARTICLE 8

ARTICLES

- » Current Volume
- » Older Volumes
 - » Volume 31
- » Editor's Choice
- » Replicable Articles
- » by Author
- » by Subject
- » Search

CITATIONS

Cited References: 46

» View the references of this article

Download to Citation Manager

- » RIS format
- » BibTeX format

SIMILAR ARTICLES

PubMed

- » Articles by Graziella Caselli
- » Articles by Enrica Lapucci
- » Articles by Rosa Maria Lipsi
- » Articles by Lucia Pozzi
- » Articles by Giovannella Baggio
- » Articles by Ciriaco Carru
- » Articles by Luca Deiana
- » Articles by Claudio Franceschi

» Decomposing demographic change into direct vs. compositional components VOLUME 7 - ARTICLE 1

» Dr. Väinö Kannisto: A Reflexion

VOLUME 6 - ARTICLE 5

Most recent similar articles in Demographic Research

» Demographic characteristics of Sardinian centenarian genealogies: Preliminary results of the AKeA2 study

VOLUME 32 - ARTICLE 37 | KEYWORDS: AKeA2 survey, centenarians, infant mortality, longevity, Sardinia

» The mystery of Japan's missing centenarians explained

VOLUME 26 - ARTICLE 11 | KEYWORDS: centenarians, longevity

» Exceptional Longevity in Okinawa: A Plea for In-depth Validation

VOLUME 25 - ARTICLE 7 | KEYWORDS: centenarians, longevity

» Arthur Roger Thatcher's contributions to longevity research: A Reflexion VOLUME 22 - ARTICLE 18 | KEYWORDS: centenarians, longevity

» The number of centenarians in Brazil: Indirect estimates based on death certificates

VOLUME 20 - ARTICLE 20 | KEYWORDS: centenarians, longevity

» Articles by James W. Vaupel

Google Scholar

- » Articles by Graziella Caselli
- » Articles by Enrica Lapucci
- » Articles by Rosa Maria Lipsi
- » Articles by Lucia Pozzi
- » Articles by Giovannella Baggio
- » Articles by Ciriaco Carru
- » Articles by Luca Deiana
- » Articles by Claudio Franceschi
- » Articles by James W. Vaupel

JUMP TO ARTICLE

Volume

Page

Volume

Article ID

© 1999 - 2015 Max-Planck-Gesellschaft

Articles

Current Volume
Older Volumes
Editor's Choice
Replicable Articles
by Author
by Subject
Search

Special Collections

About Special Collections
All Special Collections

for Authors

General Information Copyright Information Review Process Submit a Paper Submit a Letter My Author Account

for Readers

Get Email Alerts How to cite DR

About the Journal

Purpose From the Publisher and Editor Who's Who Contact Us Copyright & Legal

