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Current Volume

Volumes

Articles

Special Collections

General Information

About the Journal

Information for Authors

Copyright Information

Register for e-mail alerts

Submit a Paper

## Ages of origin and destination for a difference in life expectancy

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### Abstract

Decomposition of a difference in life expectancies may identify ages at which the difference originates in mortality differences, or may identify age at which the difference results in different values of person-years lived (life table population). This study shows that the two approaches are orthogonally related to each other, and derives an origin-destination decomposition matrix in which summing in one direction produces Andreev's origin-decomposition results, while summing in the other direction produces destination-decomposition corresponding to directly-observed differences in  $nL_x$  values.

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