

Using the LS to investigate: mortality among immigrants and their descendants in England and Wales Matthew Wallace



MORTALITY AMONG IMMIGRANTS AND THEIR DESCENDANTS IN ENGLAND AND WALES

- Title: Mortality among immigrants and their descendants in England and Wales
- Place: University of Liverpool
- Tutors: Hill Kulu
- Paul Williamson
- Gemma Catney
- Style: PhD by publication
- Dates: 2012-2016

Background: Postdoc

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- Title: Mobility, selectivity and the migrant mortality advantage
- Place: MSE, Ined

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- With: Michel Guillot
- Myriam Khlat
- Irma T Elo (UPenn)
- Primarily using the Permanent Demographic Sample
- French equivalent of the EDP!

Background: Research Interests

- Health and mortality of immigrants and descendants of immigrants
- Selection patterns and processes in immigration
- Return migration (the motives for and its effect on mortality rates in terms of bias)
- Socioeconomic characteristics over the lifecourse of immigrants



- Migrant mortality advantage empirically observed low mortality among migrants relative to natives in high-income destination countries.
- One of most pervasive findings in social sciences literature.
- Causes of it (selection, cultural factors, data biases) poorly understood.
- Aim 1: observe mortality patterns
- Aim 2: advance understanding of causes



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- 1% sample, census + life events data
- Based entirely around the LS data
- Large-scale and representative
- Individual-level longitudinal data
- Information on entries, exits, deaths (and cause of)
- Linked to a wide range of demographic and socio-economic characteristics (age, sex, education level, marital status, deprivation indexes etc...)
- Identifying information (country of birth, ethnicity)
- Suited to method: survival analysis



Results (1)

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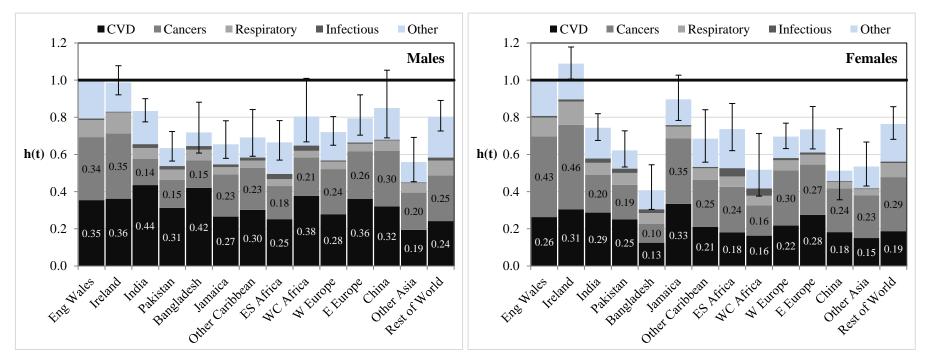


Figure 1. Immigrant mortality by cause of death



Results (2)

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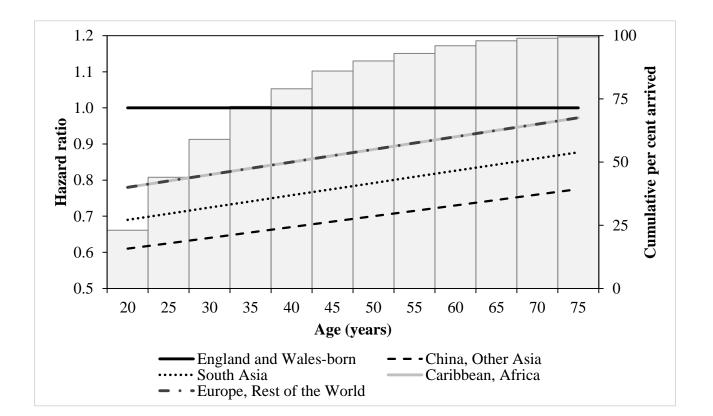


Figure 2. Immigrant mortality according to age

Notes: Authors' calculations based on the ONS LS data

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Results (3)

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Ethnicity by country of birth	Basic	SEP-adjusted		
	Haz	Sig 95%	Haz	Sig 95%
Males				
Natives	1		1	
Immigrants (G1)	0.80	*** 0.77 - 0.84	0.75	*** 0.72 - 0.78
Descendants (G2+)	1.35	*** 1.14 - 1.59	0.98	0.83 - 1.15
Females				
Natives	1		1	
Immigrants (G1)	0.79	*** 0.75 - 0.84	0.71	*** 0.68 - 0.75
Descendants (G2+)	1.41	*** 1.17 - 1.71	1.03	0.85 - 1.25

Table 1. All-cause mortality among descendants



- 1. Migrant mortality advantage observed in most groups (with variation in its magnitude).
- 2. Not caused by censoring or selection biases in return migration (not shown quite boring).
- 3. Driven by low mortality from cancers in nearly all groups and in some groups by low CVD mortality.
- 4. Most pronounced at young adult ages and approximates with age.
- 5. Advantage not observed among descendants (G2+).

Experience of using the LS

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- PhD funding only goes so far visited VML ~10 times.
- Largely worked through CeLSIUS (sending do-files from Liverpool and receiving log-files back).
- Requires patience (mostly from CeLSIUS!) and timeconsuming if mistakes are made (by me).
- PhD not possible without the CeLSIUS team!
- Overall positive experience (way LS is maintained, documentation provided, commitment of LS team and CeLSIUS to providing a positive experience).

Benefits of using the LS data

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- After mastering the LS data, most other datasets will seem tame in comparison!
- It's a "special" community already collaborating with two other LS users.
- Spending 4-years working on this kind of data helped me find my current post.
- Good way to become familiar with main statistical organisation in England and Wales.

Future plans for the LS data

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- Addition of question on duration of residence at the 2011 Census provides rare opportunity to study the mortality of immigrants according to how long they have lived in UK.
- Comparative work between the LS and the EDP in France.
- Project with Fran looking at the morbidity-mortality paradox among immigrants.

Future reading (if interested...)

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- 1. 2018. Can the salmon bias effect explain the migrant mortality advantage in England and Wales? Population, Space and Place (available online).
- 2017. Mortality among migrants and their descendants living in England and Wales. In: Trovato, F. Migration, Health and Survival: International Perspectives. UK: Edward Elgar Publishing.
- 3. 2016. Adult mortality among the descendants of immigrants in England and Wales: does a migrant mortality advantage persist beyond the first generation? Journal of Ethnic & Migration Studies, 42(9): 1558-1577.
- 4. 2015. Mortality among Immigrants in England and Wales by Major Causes of Death 1971-2012: a Longitudinal Analysis of Register-Based Data. Social Science & Medicine, 147: 209-221, with Hill Kulu.
- 5. 2014. Low immigrant mortality in England and Wales: a data artefact? Social Science & Medicine, 120: 100-109, with Hill Kulu.
- 6. 2014. Migration and Health in England and Scotland: a Study of Migrant Selectivity and Salmon Bias. Population, Space and Place, 20: 694-708, with Hill Kulu.

Thanks!

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