Estimates of ethnic mortality in the UK revisited

Pia Wohland and Phil Rees

GISRUK 2015–University Leeds
Session: 4B – Health – Thursday 16.4.2015 10:50 – 12:10 LG19

NewETHPOP–Evaluation, Revision and Extension of Ethnic Population Projections
ESRC, ES/L013878/1, 1 Jan 2015 to 31 May 2016
PI: Philip Rees· Co–I: Pia Wohland, Paul Norman, Nikolas Lomax
Growth of ethnic diversity

England and Wales

2011
- Total population: 56,676,000
- 1% White Irish
- 4% White Other
- 80% White British
- 14% Non-White

2001
- Total population: 52,841,000
- 1% White Irish
- 3% White Other
- 87% White British
- 9% Non-White

1991
- Total population: 50,748,000
- 93% (includes White Irish and White Other)
- 7% Non-White

2011 Census estimates (% change from 2001 shown in brackets):
- Indian: 1,412,958 (+34%)
- Pakistani: 1,124,511 (+55%)
- African: 989,628 (+100%)
- Caribbean: 594,825 (+44%)
- Bangladeshi: 447,201 (+56%)
- Chinese: 393,141 (+69%)

Mixed:
- White-Caribbean: 426,715 (+78%)
- White-African: 165,974 (+106%)
- White-Asian: 341,727 (+78%)
- Mixed Other: 289,984 (+83%)
- Other Asian: 835,720 (+238%)
- Other Black: 280,437 (+186%)
- Arab: 230,600 (see note)
- Other: 333,096 (+46%)

How has ethnic diversity grown 1991-2001-2011
S Jivraj - Manchester: Centre on Dynamics of Ethnicity (CoDE), 2012
Life expectancy at birth - men – 2001-National level

- Bangladeshi: 74.4
- W&B C’bean: 74.4
- Pakistani: 74.6
- Other Black: 74.7
- W&B African: 75
- Other Mixed: 75.3
- Black C’bean: 75.5
- White Irish: 75.6
- White & Asian: 75.7
- Other Aisan: 75.9
- White British: 76.2
- ALL: 76.2
- Indian: 76.3
- Other: 77
- Black African: 77.1
- Other White: 77.1
- Chinese: 78.6
Life expectancy at birth - men - 2001 –SIR method

Asian or Asian British: Pakistani
Asian or Asian British: Bangladeshi
Asian or Asian British: Other Asian
Black or Black British: Caribbean
Black or Black British: Other African
Black or Black British: Other
Chinese
Other Ethnic Group
# Migrant/ethnic group mortality in the literature

## Our study

<table>
<thead>
<tr>
<th>First Author</th>
<th>Marmot</th>
<th>Wild</th>
<th>Wild</th>
<th>Rees</th>
<th>Scott</th>
<th>Wallace</th>
<th>Morris</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immigrants</td>
<td>Immigrants</td>
<td>Immigrants</td>
<td>Ethnic Group</td>
<td>Ethnic Group</td>
<td>Immigrants</td>
<td>Ethnic Group</td>
<td></td>
</tr>
</tbody>
</table>

### White
- **Ireland**
- **Scotland**
- **E&W**
- **ALL**
- **White**
- **Scotland**
- **E&W**
- **White**

### Asian
- **Indian-subcontinent**
- **South Asia**
- **East Africa**
- **IND**
- **Indian**
- **India**
- **Asian**

### Black
- **Caribbean**
- **Caribbean**
- **West Indies**
- **BCA**
- **Black Caribbean**
- **Jamaica**
- **Black**

### Other
- **Middle East**
- **North Africa**
- **OET**
- **Other**
- **Rest of World**
- **Unresolvable**

### Measure
- **SMRs**
- **SMRs**
- **SMRs**
- **SMRs**
- **SMRs**
- **LE**
- **LE**
- **LE**
- **LE**
- **Relative risk of dying**
- **Hazard Ratio**

### Additional Info
- **Born in UK**
- **Born abroad**

### Gender
- **Men**
- **Women**
- **Men**
- **Women**
- **Men**
- **Women**
- **Men**
- **Women**
- **All**
- **All**
- **All**
- **ALL**
- **Men**
- **Women**

### Ages
- **20-69**
- **20-69**
- **15-64**
- **20-69**
- **20-69**
- **20+**
- **20+**
- **0-100**
- **1-79**
- **1-79**
- **1-79**
- **20+**
- **1-80**
Scottish, Irish, Northern Irish have higher mortality
Other White group has lower mortality
Healthy migrant effect
Conclusions for improvement

• Consider healthy immigrant effect -> separate ethnic group life tables for those born in the UK and those born outside the UK
• Use additional data sources
• Keep constrains to actual number of deaths
Life expectancy at birth women English local areas - GEOGRAPHICALLY WEIGHTED METHOD - What happened between 2001 and 2011
THANKS!

Project webpage: [https://www.ethpop.org/](https://www.ethpop.org/)
Contact: [Pia.Wohland@ncl.ac.uk](mailto:Pia.Wohland@ncl.ac.uk)