Measuring inequalities

Trends in mortality and life expectancy in Blaenau Gwent

This is one of 22 profiles produced for each local authority in Wales comparing outcomes and their trends in the most and least deprived areas in the local authority. A Wales profile has also been produced and contains more detailed analysis and background information.

Life expectancy in Blaenau Gwent, as in Wales in general, is increasing. However, this improvement is not experienced equally across all areas. There are in many cases substantial national and local inequality gaps between the most and least deprived areas in both life expectancy and deaths from different causes. There are also inequalities in the quality of life in terms of healthy life expectancy and disability-free life expectancy.

The Slope Index of Inequality (SII) measures the absolute gap in years of life expectancy between the most and least deprived, taking into account the pattern across all fifths of deprivation within the Local Authority. The SII shows, for example, that the gap in life expectancy in males between the most and least deprived fifth is nearly 3 years. When considering healthy life expectancy the gap is greater at around 8 years.

Comparison of life expectancy, healthy life expectancy and disability-free life expectancy at birth, Blaenau Gwent 2001-05 and 2005-09

<table>
<thead>
<tr>
<th></th>
<th>2001-05</th>
<th>2005-09</th>
<th>Inequality gap (SII in years)</th>
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</thead>
<tbody>
<tr>
<td><strong>Males</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life expectancy</td>
<td>73.9</td>
<td>75.4</td>
<td>3.0</td>
</tr>
<tr>
<td>Healthy life expectancy</td>
<td>56.4</td>
<td>57.1</td>
<td>8.4</td>
</tr>
<tr>
<td>Disability-free life expectancy</td>
<td>53.9</td>
<td>54.3</td>
<td>3.8</td>
</tr>
<tr>
<td><strong>Females</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life expectancy</td>
<td>78.5</td>
<td>79.0</td>
<td>3.2</td>
</tr>
<tr>
<td>Healthy life expectancy</td>
<td>59.7</td>
<td>59.8</td>
<td>12.0</td>
</tr>
<tr>
<td>Disability-free life expectancy</td>
<td>57.2</td>
<td>57.2</td>
<td>8.0</td>
</tr>
</tbody>
</table>
Death rates for all and specific major causes are compared between the most and least deprived using a rate ratio, thereby measuring the relative gap. The following charts show the rates for the fifths, the local authority overall and Wales. A rate ratio of two, for example, means that the rate in the most deprived fifth is twice the rate in the least deprived fifth.

European age-standardised rate (EASR) per 100,000 population

- Most deprived within Blaenau Gwent (95% CI)
- Wales EASR
- Least deprived within Blaenau Gwent
- Blaenau Gwent overall

**Mortality by cause of death**

Death rates for all and specific major causes are compared between the most and least deprived using a rate ratio, thereby measuring the relative gap. The following charts show the rates for the fifths, the local authority overall and Wales. A rate ratio of two, for example, means that the rate in the most deprived fifth is twice the rate in the least deprived fifth.

European age-standardised rate (EASR) per 100,000 population

- Most deprived within Blaenau Gwent (95% CI)
- Wales EASR
- Least deprived within Blaenau Gwent
- Blaenau Gwent overall

**All-cause mortality, all ages**

**All-cause mortality under 75**

**Mortality from circulatory disease**
Mortality by cause of death (continued)

European age-standardised rate (EASR) per 100,000 population

Mortality from respiratory disease

Males

Females

Rate ratio


Rate ratio


Mortality from cancer

Males

Females

Rate ratio


Rate ratio


Smoking-attributable mortality aged 35 and over

Males

Females

Rate ratio


Rate ratio


Notes and contact:

This publication consists of individual profiles for each of the 22 local authorities, a more detailed Wales profile, selected data files and a technical guide to support the profiles. These are all available on our website at www.publichealthwalesobservatory.wales.nhs.uk/inequalities. For further details please contact us on publichealthwalesobservatory@wales.nhs.uk. All analyses, charts and the map have been produced by the Public Health Wales Observatory using the following data sources: Annual District Death Extract and Mid-Year Population Estimates (Office for National Statistics), Welsh Index of Multiple Deprivation and Welsh Health Survey (Welsh Government).

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Deprivation fifths for each local authority were produced by ranking all Lower Super Output areas (LSOAs) within the local authority and grouping them into fifths, based on the Welsh Index of Multiple Deprivation (WIMD). The relationship between local and national fifths is illustrated in the chart. The position of each local authority fifth shows the range of ranks it contains relative to the Wales fifths.

Overall, it shows that all but the least deprived Blaenau Gwent fifth are located towards the more deprived half of the national deprivation scale. For example, the 19 LSOAs in the most and next most deprived Local Authority fifth are drawn from the 379 LSOAs in the most deprived Wales fifth, and may have similar outcomes. The gap between the most and least deprived fifths within Blaenau Gwent in this analysis is therefore narrower than in areas spanning the entire deprivation scale.

Further details on deprivation fifths can be found in the technical guide.