Life expectancy in Carmarthenshire, 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 about 6 years. When considering healthy life expectancy the gap is even greater at around 14 years.

Comparison of life expectancy, healthy life expectancy and disability-free life expectancy at birth, Carmarthenshire 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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Males</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life expectancy</td>
<td>75.3</td>
<td>76.7</td>
<td>5.7</td>
</tr>
<tr>
<td>Healthy life expectancy</td>
<td>61.3</td>
<td>62.1</td>
<td>13.7</td>
</tr>
<tr>
<td>Disability-free life expectancy</td>
<td>57.3</td>
<td>57.9</td>
<td>8.6</td>
</tr>
<tr>
<td><strong>Females</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Life expectancy</td>
<td>80.4</td>
<td>81.3</td>
<td>4.3</td>
</tr>
<tr>
<td>Healthy life expectancy</td>
<td>62.8</td>
<td>63.2</td>
<td>14.4</td>
</tr>
<tr>
<td>Disability-free life expectancy</td>
<td>59.3</td>
<td>59.6</td>
<td>10.9</td>
</tr>
</tbody>
</table>
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 Carmarthenshire (95% CI)
- Wales EASR
- Least deprived within Carmarthenshire
- Carmarthenshire 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
- Most deprived within Carmarthenshire (95% CI)
- Wales EASR
- Least deprived within Carmarthenshire
- Carmarthenshire overall

**Mortality from respiratory disease**

**Females**

![Graph showing mortality rates for females from 2001-03 to 2007-09.](image)

**Males**

![Graph showing mortality rates for males from 2001-03 to 2007-09.](image)

**Mortality from cancer**

**Females**

![Graph showing mortality rates for females from 2001-03 to 2007-09.](image)

**Males**

![Graph showing mortality rates for males from 2001-03 to 2007-09.](image)

**Smoking-attributable mortality aged 35 and over**

**Females**

![Graph showing mortality rates for females from 2001-03 to 2007-09.](image)

**Males**

![Graph showing mortality rates for males from 2001-03 to 2007-09.](image)

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 LSOAs in Carmarthenshire are concentrated in the middle of the national deprivation scale. The least and most deprived local authority fifths cover a wider range of LSOAs than the respective national fifths and are therefore not as concentrated at the extreme ends of the deprivation scale. The gap between the most and least deprived fifths within Carmarthenshire in this analysis may be narrower than for Wales overall.

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