EHLEIS Country Reports
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Health Expectancy in The Netherlands

What is health expectancy?

Health expectancies were first developed to address whether or not longer life is being accompanied by an increase in the time lived in good health (the compression of morbidity scenario) or in bad health (expansion of morbidity). So health expectancies divide life expectancy into life spent in different states of health, from say good to bad health. In this way they add a dimension of quality to the quantity of life lived.

How is the effect of longer life measured?

The general model of health transitions (WHO, 1984) shows the differences between life spent in different states: total survival, disability-free survival and survival without chronic disease. This leads naturally to life expectancy (the area under the ‘mortality’ curve), disability-free life expectancy (the area under the ‘disability’ curve) and life expectancy without chronic disease (the area under the ‘morbidity’ curve).


There are in fact as many health expectancies as concepts of health. The commonest health expectancies are those based on self-perceived health, activities of daily living and on chronic morbidity.

How do we compare health expectancies?

Health expectancies are independent of the size of populations and of their age structure and so they allow direct comparison of different population sub-groups: e.g. sexes, socio-professional categories, as well as countries within Europe (Robine et al., 2003).

Health expectancies are most often calculated by the Sullivan method (Sullivan, 1971). However to make valid comparisons, the underlying health measure should be truly comparable.

To address this, the European Union has decided to include a small set of health expectancies among its European Community Health Indicators (ECHI) to provide summary measures of disability (i.e., activity limitation), chronic morbidity and perceived health. Therefore the Minimum European Health Module (MEHM), composed of 3 general questions covering these dimensions, has been introduced into the Statistics on Income and Living Conditions (SILC) to improve the comparability of health expectancies between countries.* In addition life expectancy without long term activity limitation, based on the disability question, was selected in 2004 to be one of the structural indicators for assessing the EU strategic goals (Lisbon strategy) under the name of “Healthy Life Years” (HLY).

Further details on the MEHM, the European surveys and health expectancy calculation and interpretation can be found on www.eurohex.eu.

What is in this report?

This report is produced by the Joint Action European Health and Life Expectancy Information System (EHLEIS) as part of a country series. In each report we present:

- Life expectancies and Healthy Life Years (HLY) at age 65 for the country of interest and for the overall 25 European Union member states (EU25), using the SILC question on long term health related disability, known as the GALI (Global Activity Limitation Indicator), from 2005 to 2011. The wording of the question has been revised in 2008. When available, we provide previous HLY series based on the disability question of the 1995-2001 European Community Household Panel (ECHP);

- Health expectancies based on the two additional dimensions of health (chronic morbidity and self-perceived health) for the country of interest, based on SILC 2011;

- Life and health expectancy at age 65 based on activity limitation (Healthy Life Years), chronic morbidity and perceived health for EU 27 in 2011 by gender (Health data from SILC)

References


* Before the revision of 2008, the translations of the module used in some countries were not optimum (See Eurostat-EU Task Force on Health Expectancies common statement about the SILC data quality). This revision is being evaluated.
Key points:

Dutch life expectancy (LE) at age 65 has increased by 1.8 years for women and 2.5 years for men over the period 2001-2011. For both sexes in 2001 LE was slightly below the EU15 average, and by 2011 LE for Dutch men and women was very close to the EU25 average (21.6 for women and 18.0 for men).

Over the 1995-2001 period, health expectancy at age 65, based on activity limitation (HLY) from the ECHP data decreased for women but remained almost stable for men. The proportion of HLY (or years without self-reported limitations due to health condition or disability), within the total expected years, decreased for both sexes, being close to 50% for women and 60% for men in 2001. Between 1995 and 1999 HLY in the Netherlands was above the EU15 average but dropped to the EU15 average in 2000.

The new HLY series, initiated in 2005 with the SILC data, show values for the Netherlands being in 2011 above the EU25 average (8.6 for women and 8.8 for men) by 1.3 years for women and 1.6 years for men. In 2011 women and men at age 65 can expect to spend 47% and 57% of their life without self-reported long-term activity limitations respectively. Note that the wording of the GALI question was changed in the Netherlands in 2008 to better reflect the EU standard. This led to a clear decrease in HLY for men and women between 2007 and 2008. After a decrease of HLY for men and women between 2009 and 2010, in 2011 HLY increased, although for women only slightly.
## Life and health expectancies at age 65 based on activity limitation (Healthy Life Years), chronic morbidity and perceived health for The Netherlands (Health data from SILC 2011)

### Key points:

In 2011 LE at age 65 in the Netherlands was 21.2 years for women and 18.1 years for men.

Based on the SILC 2011 at age 65, women spent 9.9 years (47% of their remaining life) without activity limitation (corresponding to Healthy Life Years (HLY)), 8.6 years (41%) with moderate activity limitation and 2.7 years (12%) with severe activity limitation.*

Men of the same age spent 10.4 years (57% of their remaining life) without activity limitation compared to 5.9 years (33%) with moderate activity limitation and 1.8 years (10%) with severe activity limitation.*

For all the health expectancies the years of life spent in positive health were greater or slightly greater for men than women and spent a larger proportion of their life in ill health.

These results should be interpreted cautiously given the lack of the institutional population, such as people living in nursing homes, and the size of the samples varying from 1204 in Denmark to 10419 in Italy. The sample size for Netherlands comprised 1340 women and 966 men aged 65+ years in 2011.

* These may not sum to Life Expectancy due to rounding

### Publications and reports on health expectancies for The Netherlands


### Table: Life Expectancy at age 65 and expected years

<table>
<thead>
<tr>
<th></th>
<th>Women</th>
<th>Men</th>
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<tbody>
<tr>
<td>Without activity limitation</td>
<td>9.9</td>
<td>10.4</td>
</tr>
<tr>
<td>With moderate activity limitation</td>
<td>8.6</td>
<td>5.9</td>
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<tr>
<td>With severe activity limitation</td>
<td>2.7</td>
<td>1.8</td>
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<tr>
<td>Without chronic morbidity</td>
<td>9.4</td>
<td>9.4</td>
</tr>
<tr>
<td>With chronic morbidity</td>
<td>11.7</td>
<td>8.7</td>
</tr>
<tr>
<td>In very good or good perceived health</td>
<td>10.9</td>
<td>11.2</td>
</tr>
<tr>
<td>In fair perceived health</td>
<td>8.0</td>
<td>5.5</td>
</tr>
<tr>
<td>In bad or very bad perceived health</td>
<td>2.3</td>
<td>1.4</td>
</tr>
</tbody>
</table>

### Diagram: Life Expectancy at age 65 and expected years

- **Women**: Life expectancy at age 65 without activity limitation: 9.9 years, with moderate activity limitation: 8.6 years, with severe activity limitation: 2.7 years.
- **Men**: Life expectancy at age 65 without activity limitation: 10.4 years, with moderate activity limitation: 5.9 years, with severe activity limitation: 1.8 years.

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* These may not sum to Life Expectancy due to rounding.
Life and health expectancies at age 65 based on activity limitation (Healthy Life Years), chronic morbidity and perceived health for EU27, in 2011, by gender (Health data from SILC)

Key points

In 2011, LE at age 65 in the EU 27 was 21.3 years for women and 17.8 years for men.
Based on SILC 2011 data, women at age 65 spent 8.6 years (40% of their remaining life) without activity limitation (corresponding to Healthy Life Years (HLY)), 7.7 years (36%) with moderate activity limitation and 5.0 years (24%) with severe activity limitation.
Men of the same age spent the same amount of time 8.6 years (48% of their remaining life) without activity limitation compared to 5.9 years (33%) with moderate activity limitation and 3.3 years (19%) with severe activity limitation.
However women can expect to live a little bit longer without chronic morbidity and men a little bit longer in good perceived health.
In total, life expectancy is greater for women than for men (+3.5 years) but women spent a larger proportion of their life in ill health and these years of ill health were more likely to be years with severe health problems.

About the Joint Action EHLEIS

The current Joint Action EHLEIS (European Health and Life Expectancy Information System) and Eurohex (www.eurohex.eu) are co-funded by 11 Member States, the European Commission, DG SANCO, and two French institutions: the Ministry of Health and the National Solidarity Fund for Autonomy (CNSA). It is a collaboration between: Austria (Statistik Austria, Vienna Institute of Demography of the Austrian Academy of Sciences, European Centre for Social Welfare), Belgium (Scientific Institute of Public Health – ISP-WIV), the Czech Republic (Institute of Health Information and Statistics of the Czech Republic - UZIS CR), Denmark (Danish National Board of Health - SST; Economic Council of the Labour Movement - AE; University of Southern Denmark - IPH; University of Copenhagen - UCPH), France (National Institute of Health and Medical Research - INSERM; National Institute of Demography - INED; University of Montpellier - UM2), Germany (Robert Koch Institute - RKI ; Rostock Center for Demographic Change - UROS), Greece (Hellenic Statistical Authority - ELSTAT), Italy (University La Sapienza - DSSEAD), The Netherlands (Erasmus Medical Center - EMC; National Institute for Public Health and the Environment - RIVM; Statistical Office - CBS), Sweden (National Board of Health and Welfare - SoS/NBHW) and the United Kingdom (Office for National Statistics - ONS; Newcastle University - UNEW). The JA:EHLEIS and Eurohex aim to provide a central facility for the coordinated analysis, interpretation and dissemination of life and health expectancies to add the quality dimension to the quantity of life lived by the European populations. Further details about the Joint Action can be found on the websites: www.eurohex.eu and www.healthylife-years.eu.

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