Health Expectancy in Lithuania

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 subgroups: 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 Core 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 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 2012. The wording of the question has been revised in 2008;
- Prevalence of activity limitation in the country of interest and in the European Union (EU27) based on the GALI question by sex and age group;
- Health expectancies based on the two additional dimensions of health (chronic morbidity and self-perceived health) for the country of interest, based on SILC 2012;
- Trends in total life expectancy (LE) and life expectancy without activity limitation (HLY) at age 65 in the European Union (EU25), distinguishing between Western Europe (EU15) and new members (EU10).

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:

Lithuanian life expectancy (LE) at age 65 has increased by 1.1 year for women and by 0.6 year for men over the period 2004-2012. LE for both sexes was below the EU25 average (21.4 for women and 18.0 for men) in 2012, 3.9 years for men and 2.2 years for women.

The HLY series, initiated in 2005 with the SILC data, shows that in 2012 women and men at age 65 can expect to spend 32% and 40% of their life without self-reported long-term activity limitations respectively. In 2012 the HLY values for Lithuania are 2.6 years and 3.0 years below the EU25 average (8.7 for women and 8.6 for men) respectively for women and men. HLY slightly decreased for women and men between 2011 and 2012. Note that the wording of the GALI question was changed in Lithuania in 2006 and again in 2007.

Prevalence of activity limitation in Lithuania and in the European Union (EU27) based on the GALI question, by sex and age group (SILC, Mean 2010-2012)

Reports of limitation in usual activities strongly increase with age in the European Union and women systematically report slightly more activity limitation than men. Compared to the mean trajectory by age observed in the European Union in the 3 years 2010-2012, Lithuania tends to display lower prevalence rate of activity limitation before the age of 60 years for men and 65 years for women, but higher prevalence after these ages for both sexes.

These results should be interpreted with caution as samples sizes in the SILC survey vary remarkably; for instance in 2012 they ranged from 5342 in Denmark to 40287 in Italy. In 2012 the sample size for Lithuania comprised 6109 women and 5115 men aged 16 years and over.
Life and health expectancies at age 65 based on activity limitation (Healthy Life Years), chronic morbidity and perceived health for Lithuania (Health data from SILC 2012)

Key points:

In 2012, LE at age 65 in Lithuania was 19.2 years for women and 14.1 years for men.

Based on the SILC 2012 at age 65, women spent 6.1 years (32% of their remaining life) without activity limitation corresponding to Healthy Life Years (HLY)), 8.0 years (42%) with moderate activity limitation and 5.1 years (27%) with severe activity limitation.*

Men of the same age spent 5.6 years (40% of their remaining life) without activity limitation compared to 5.7 years (40%) with moderate activity limitation and 2.7 years (19%) with severe activity limitation.*

Although women lived slightly more years without disability, compared to men, they 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.

The number of years lived by men and women without chronic morbidity or in good perceived health was similar

These results should be interpreted cautiously given the lack of the institutional population, such as people living in nursing homes.

*These may not sum to Life Expectancy due to rounding

Publications and reports on health expectancies for Lithuania


- Kalėdienė R., Petrauskienė J. Healthy life expectancy - an important indicator for health policy development in Lithuania. *Medicina (Kaunas).* 2004; 40(6):582-588

Trends in total life expectancy (LE) and life expectancy without activity limitation (HLY) at age 65 in the European Union (EU25) from 2005 to 2012

Key points:

Over the 7 years period, since EHLEIS monitors the number of Healthy Life Years (HLY) in the European Union (EU), the total life expectancy at age 65 (LE65) has increased by 1.34 years for men and by 1.18 years for women in the EU25, leading to a very small decrease in the gender gap (3.43 vs. 3.59 years). The change over time is quite similar for all Member States (MS) and the initial gap between the old EU15 and the new MS (EU10) hardly changed: 3.1 years in 2005 (17.1 vs. 14.0) and 3.2 years in 2012 (18.4 vs. 15.2) for men; 2.6 years in 2005 (20.6 vs. 18.0) and 2.4 years in 2012 (21.8 vs. 19.4) for women.

The evolution of the HLY is less favorable. The number of HLY did not change from 2005 to 2012. Actually the life expectancy without any reported activity limitation at age 65 (HLY65), for men, increased only by 0.06 years in the EU15 and decreased by 0.02 years in the EU10 and, for women, decreased by 0.06 years in the EU15 and by 0.69 years in the EU10. There have been little changes in the observed inequality between the EU15 and the new MS. These gaps fluctuated between 1.8 and 2.8 years for men and between 1.1 and 2.6 years for women without any clear trends. In 2012, the HLY reached 8.8 and 9.0 years for men and women in EU15 and 7.0 and 7.2 years for men and women in EU10.

As a consequence of these different trends, the proportion of years lived with activity limitation after the age of 65 years increased: from 48.6% to 52.0% for men and from 56.3% to 58.8% for women in the EU15; from 50.0% to 54.1% for men and from 56.1% to 62.7% for women in the EU10. Observed trends in HLY for both males and females challenge current EU objectives on active and healthy aging.

The European Health and Life Expectancy Information System (EHLEIS) is part of BRIDGE-Health (Bridging Information and Data Generation for Evidence-based Health Policy and Research) which aims to prepare the transition towards a sustainable and integrated EU health information system within the third EU Health Programme, 2014-2020 (www.bridge-health.eu). EHLEIS comes from the EU Health Monitoring Programme with the two EURO-REVES projects (1998-2002). It was designed within the European Health Expectancy Monitoring Unit Project (EHEMU, 2004-2007) under the first EU Health Programme and has been developed by the EHLEIS Project (2007-2010) under the second EU Health Programme and then expanded by the Joint-Action on the Healthy Life Years (2011-2014). Technically, EHLEIS is maintained by the French National Institute of Health and Medical Research (INSERM) in Montpellier. See www.eurohex.eu for more information. Since it inception, EHLEIS is working with a network of correspondents throughout the EU, especially for the production of the yearly country reports Health Expectancy in ...

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