

The EHEMU Web site

(European Health Expectancy Monitoring Unit)



Sophie Le Roy, EHEMU team

www.ehemu.eu

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Ehemu

European Health Expectancy Monitoring Unit

Observatoire Européen des Espérances de Santé

Home

WELCOME

Welcome to the website of the European Health Expectancy Monitoring Unit (EHEMU).

This website is designed to provide European life and health expectancies from our [database and Information System](#). It includes a [calculation guide](#) and programs ([excel](#), [SAS](#) and [SPSS](#)) to calculate health expectancies yourself. An [interesting guide](#) is provided for non-technical readers. You can also find EHEMU publications ([presentations](#) and [reports](#)), a [bibliography](#) with a search engine, a [glossary](#) and a link to the official site of the [Healthy Life Years](#) indicator.

You can access background information about [EHEMU](#) and its [team members](#).

EHEMU belongs to the international network [REVES](#).

We hope that you find this site to be a useful online resource, and welcome any [comments](#) or questions that you may have about it or EHEMU.

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Site maintained by [Sophie Le Roy](#) [WWW.EHEMU.EU](#) Site updated: 01/07/2007

Link for the REVES website

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The main aim of EHEMU is to provide a central facility for the co-ordinated analysis and synthesis of life and health expectancies to add the quality dimension to the quantity of life lived by the European populations, provide evidence of inequalities between Member States (MS) and highlight potential targets for public health strategies both nationally and at a pan-European level. EHEMU has been funded by the European Commission's Directorate General for Health and Consumer Affairs (DG SANCO) under the Community Action in Public Health programme through two projects: [EHEMU \(2004-2007\)](#) and [EHEMU \(2007-2010\)](#). Health expectancy is one of the [structural indicators for the EU sustainable development policy](#).

EHEMU will thus contribute to improving and developing the European health monitoring system through collaboration with initiatives aimed at improving the quality and comparability of EU data. Previous Community actions have aimed at harmonization of data and the Euro-REVES network has been instrumental in developing instruments in key health domains, where appropriate through consensus meetings with other EU groups. EHEMU is the next step in this process, since valid comparisons between MS require not only harmonized data but also harmonized calculations and analyses.

OBJECTIVES

The specific objectives of EHEMU are to:

- undertake analysis of health expectancies from current harmonized data;
- co-ordinate the dissemination of these results, through paper and web-based reports;
- act as repository for current and past data on EU health expectancies;
- undertake a regular transfer of meta-information to European databases;
- develop training material (web-based and workshop) for interpreting and calculating health expectancies for a wide audience;
- promote harmonization of practice for future calculations in Europe.

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About EHEMU

The screenshot shows the EHEMU website interface. On the left is a navigation menu with links: Home, Database, Contacts, Site contents, About EHEMU, Overview, Objectives, Projects, Team members, EHEMU networks, Archives, Database, Training material, Publications, Country reports, Bibliography, Useful links, Site contents. The 'About EHEMU' section is highlighted. Below the menu is a 'Healthy Life Years' banner. The main content area is titled 'ABOUT EHEMU' and contains a sub-menu: EHEMU overview, EHEMU objectives, EHEMU projects, Team members. The 'OBJECTIVES' section lists the specific objectives of EHEMU: undertake analysis of health expectancies from current harmonized data; co-ordinate the dissemination of these results, through paper and web-based reports; act as repository for current and past data on EU health expectancies; undertake a regular transfer of meta-information to European databases; develop training material (web-based and workshop) for interpreting and calculating health expectancies for a wide audience; promote harmonization of practice for future calculations in Europe. The 'PROJECTS' section lists EHEMU projects: EHEMU project, EHLEIS project. The 'THE EHEMU TEAM' section lists the team members: Institut national de la santé et de la recherche médicale (INSERM), Montpellier, France; Jean-Marie Robine (co-investigator); Isabelle Romieu; Aurore Clavel; Sophie Le Roy; Institut National Etudes Démographiques (INED), Paris, France; Emmanuelle Cambois; University of Leicester, Leicester, England; Carol Jagger (co-investigator); Scientific Institute of Public Health (IPH), Brussels, Belgium; Herman van Oyen (co-investigator); Bianca Cox. The 'THE EHEMU NETWORKS' section lists The EHEMU Collaborators networks.

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EHEMU Reports
June 2007

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INTERPRETING HEALTH EXPECTANCIES

Most countries in the world are ageing rapidly with longer and longer life expectancies. Whether these extra years are healthy or with increasing disability and dependence is important for governments, health services and individuals. Health expectancies were first developed to answer this question. The European Health Expectancy Monitoring Unit (EHEMU) has developed this guide to aid the understanding and interpreting health expectancies and to accompany the more technical guide on how to calculate health expectancies¹.

What are health expectancies?

Health expectancies are a natural extension of the well known indicators of life expectancies. Life expectancies measure the number of remaining years to be lived at a particular age, considering the current mortality level of the country. For example in 2004 the female life expectancy at birth in Belgium was 81.4 years, so a baby girl born in 2004 could expect to live to age 81 years, assuming the conditions of 2004 prevailed over her whole life. By considering not only mortality but also ill-health at particular ages we can divide this remaining number of years into years spent in good and bad health – these are then health expectancies. Health expectancies add a quality dimension to the quantity of life lived.

As there are many dimensions of health, there are many health expectancies. The proposed new EU structural indicator **Healthy Life Years (HLY)** is based on limitations in daily activities and is therefore a **disability-free life expectancy**, one of the most common health expectancies reported. Others include **healthy life expectancy** (based on the self-rated health question: 'How is your health in general?') and life expectancy free of specific diseases, for instance **dementia-free life expectancy**.

Example 1
A common way to illustrate health expectancies is shown in Figure 1 where we have plotted life expectancy (LE)

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EHEMU Technical report 2006_3
June 2007

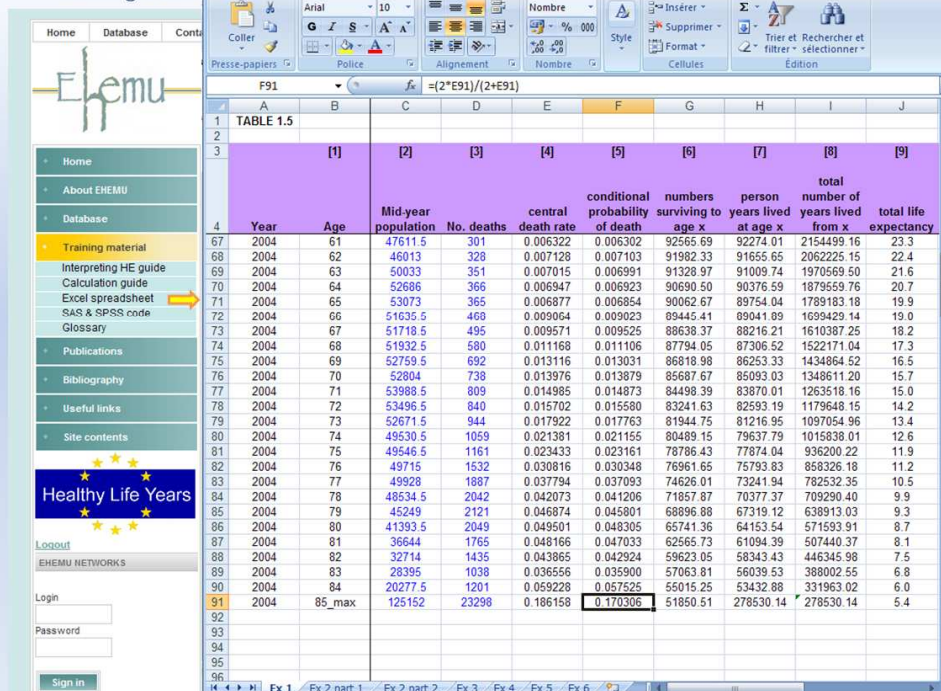
Health Expectancy Calculation
by the Sullivan Method:
A Practical Guide

3rd Edition

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Training material



The screenshot shows the EHEMU website interface on the left and an Excel spreadsheet on the right. The website has a navigation menu with links to Home, Database, Training material, Publications, Bibliography, Useful links, and Site contents. The Training material section is highlighted, and a yellow arrow points to the 'Excel spreadsheet' link. The Excel spreadsheet, titled 'Sullivan_manual_jun2007.xls', displays 'TABLE 1.5' with columns for Year, Age, Mid-year population, No. deaths, central death rate, conditional probability of death, numbers surviving to age x, person years lived at age x, total number of years lived from x, and total life expectancy. The data is for the year 2004, with ages ranging from 61 to 85. The formula bar shows the formula
$$F91 = (2 * E91) / (2 + E91)$$
.

	Year	Age	Mid-year population	No. deaths	central death rate	conditional probability of death	numbers surviving to age x	person years lived at age x	total number of years lived from x	total life expectancy
67	2004	61	47611.5	301	0.006322	0.006302	92565.69	92274.01	2154499.16	23.3
68	2004	62	46013	328	0.007128	0.007103	91982.33	91655.65	2062225.15	22.4
69	2004	63	50033	351	0.007015	0.006991	91328.97	91009.74	1970569.50	21.6
70	2004	64	52686	366	0.006947	0.006923	90690.50	90376.59	1879559.76	20.7
71	2004	65	53073	365	0.006877	0.006854	90062.67	89754.04	1789183.18	19.9
72	2004	66	51035.5	460	0.009064	0.009023	89445.41	89041.89	1699429.14	19.0
73	2004	67	51718.5	495	0.009571	0.009525	88638.37	88216.21	1610387.25	18.2
74	2004	68	51932.5	580	0.011168	0.011106	87794.05	87306.52	1522171.04	17.3
75	2004	69	52759.5	692	0.013116	0.013031	86818.98	86253.33	1434864.52	16.5
76	2004	70	52804	738	0.013976	0.013879	85687.67	85093.03	1348611.20	15.7
77	2004	71	53988.5	809	0.014985	0.014873	84498.39	83870.01	1263518.16	15.0
78	2004	72	53496.5	840	0.015702	0.015580	83241.63	82593.19	1179648.15	14.2
79	2004	73	52671.5	944	0.017922	0.017763	81944.75	81216.95	1097054.96	13.4
80	2004	74	49530.5	1059	0.021381	0.021155	80489.15	79637.79	1015838.01	12.6
81	2004	75	49546.5	1161	0.023433	0.023161	78786.43	77874.04	936200.22	11.9
82	2004	76	49715	1532	0.030816	0.030348	76961.65	75793.83	858326.18	11.2
83	2004	77	49928	1887	0.037794	0.037093	74626.01	73241.94	782532.35	10.5
84	2004	78	48534.5	2042	0.042073	0.041206	71857.87	70737.37	702990.40	9.9
85	2004	79	45249	2121	0.046874	0.045801	68896.88	67319.12	638913.03	9.3
86	2004	80	41393.5	2049	0.049501	0.048305	65741.36	64153.54	571593.91	8.7
87	2004	81	36644	1765	0.048166	0.047033	62565.73	61094.39	507440.37	8.1
88	2004	82	32714	1435	0.043865	0.042924	59623.05	58343.43	446345.98	7.5
89	2004	83	28395	1038	0.036556	0.035900	57063.81	56039.53	388002.55	6.8
90	2004	84	20277.5	1201	0.059228	0.057525	55015.25	53432.88	331963.02	6.0
91	2004	85_max	125152	23298	0.186158	0.170306	51850.51	278530.14	278530.14	5.4

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Training material

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The screenshot shows the EHEMU website interface. The navigation menu includes Home, Database, Contacts, and Site contents. The Training material section is highlighted, and a yellow arrow points to the 'Excel spreadsheet' link. The main content area displays the 'PROGRAMS' section, which includes SAS and SPSS programs for calculating health expectancies. The text explains that in addition to the Excel spreadsheet, SAS and SPSS programs are provided for calculating health expectancies. The programs contain the examples presented in the Calculation Guide. Both programs are provided in text form (Word document) so that they can also be viewed by users who do not have SAS or SPSS software. In order to use the program, select the text from the Word document and copy it into the command window of the corresponding software ('Editor' in SAS and 'Syntax' in SPSS). The input data needed for both programs are provided in the Excel files input_examples.xls. In the SAS and SPSS programs, you only need to change the name of the directory in which the input and output datasets are stored. After running the program, eight output datasets are produced: example1, example2, example3, example4A, example4B, example5, example6A, and example6B. The extensions of these datasets are .sas7bdat for SAS and .sav for SPSS. The programs can be used on other data, provided that the input data are supplied in the same format.

- [SAS program](#)
- [SPSS program](#)
- [input examples](#)

Training material

The screenshot shows the EHEMU website interface. On the left is a navigation menu with links: Home, About EHEMU, Database, Training material (highlighted), Publications, Bibliography, Useful links, and Site contents. Below the menu is a 'Healthy Life Years' banner with five stars. Further down are links for 'Logout', 'EHEMU NETWORKS', and a login form with fields for 'Login' and 'Password', and a 'Sign in' button. The main content area on the right is titled 'Glossary' and contains a numbered list of 9 definitions related to health expectancy and survival analysis.

Glossary

1. Abridged life table: A life table in which values of the life table functions are presented for certain age groups only, rather than for every single year of age.
2. Age interval: The period of life between two ages stated in years. For example, 10-14 is the 5-year age interval between the 10th and 15th birthdays.
3. Central death rate, m_x : The mortality rate at age x , calculated by using the mid-year population as denominator.
4. Confidence interval: The computed interval with a given probability, e.g., 95%, that the true value of a variable such as a mean, proportion, or rate is contained within the interval.
5. Cross-sectional survey: A study that aims to describe the relationship between diseases (or other health-related states or variables) and other factors of interest as they exist in a specified population at one particular time.
6. Curvature of the survival curve over the age interval, ax : Measurement of how fast the survival curve is changing direction (how much it is bending) within the age interval.
7. Death count: The number of deaths during a given period in a specified population.
8. Disability-free life expectancy: The average number of years an individual is expected to live free of disability if current patterns of mortality and disability continue to apply. A statistical abstraction based on existing age-specific death rates and either age-specific disability prevalences or age-specific disability transition rates.
9. Health expectancy: The average number of years an individual is expected to live in a given health state if current patterns of mortality and health states continue to apply. Health expectancy is a general term, referring to any one of a class of indicators. Specific health expectancies are based on health states defined by concepts of health, morbidity or disability (i.e. impairment, disability and handicap).

Publications → Reports

The screenshot shows the EHEMU website with the 'Reports' section highlighted in the navigation menu. The main content area is titled 'REPORTS' and lists various reports under the years 2007 and 2006. An orange arrow points from the 'Publications' link in the navigation menu to the 'Reports' section.

REPORTS

- 2007
 - [Interpreting Health Expectancies](#)
(Technical_report_2007_1)
EHEMU team
(June 2007)
 - [Glossary](#)
(Technical_report_2007_3)
EHEMU team
(June 2007)
 - [Health expectancies in Europe](#)
(Technical_report_2007_4)
EHEMU team
(June 2007)
 - [SAS and SPSS programs for calculating health expectancies](#)
(Technical_report_2007_6)
EHEMU team
(June 2007)
 - [Content of the Website](#)
(Technical_report_2007_7)
EHEMU team
(June 2007)
 - [Report EHEMU 2007](#)
EHEMU team
(June 2007)
- 2006
 - [Report on the development of the EHEMU information system \(version 001\)](#)
Main EHEMU IS web pages
(Technical_Report_2006_1)
EHEMU team
(June 2006)
 - [Estimations on health expectancy at age 65 in European Union countries in 2004](#)
Calculations based on data from EUARE 2004

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Publications → Presentation

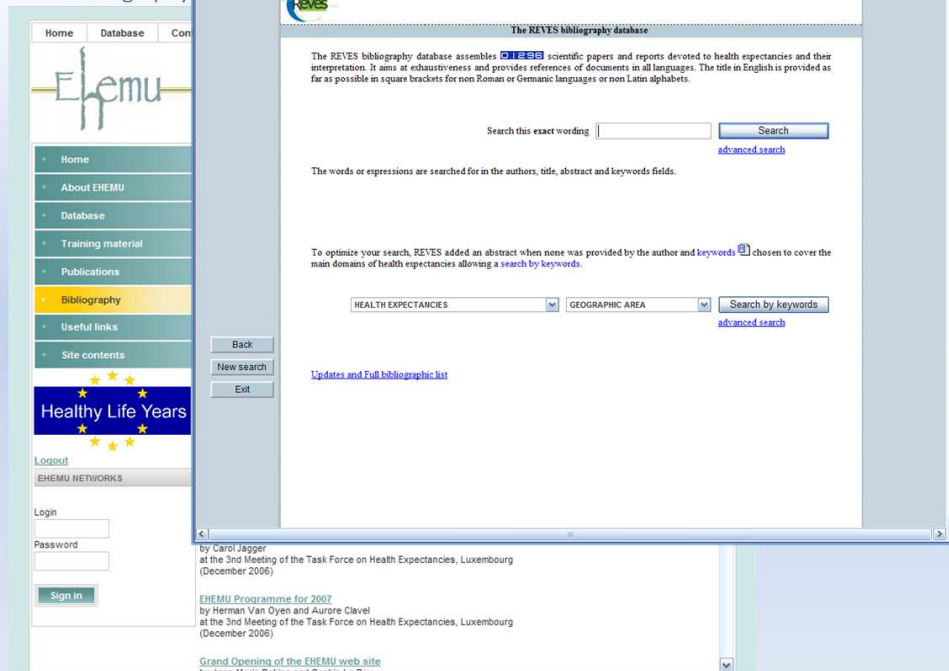
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Useful links

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The screenshot shows the EHEMU website with the 'Useful links' section highlighted in the left sidebar. The main content area lists various links under the heading 'LINKS'. The sidebar includes a navigation menu with options like Home, About EHEMU, Database, Training material, Publications, Bibliography, Useful links (selected), and Site contents. Below the menu is a 'Healthy Life Years' banner and a login section. The main content area lists links to REVES, Euro-REVES, Asia-REVES, EU links, Eurostat, and several European Commission and Research Directorate links.

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LINKS
This page contains a selection of sites that contain information related to health expectancy.
Links to REVES (the International Network on Health Expectancy and the Disability Process) and its regional networks
[REVES](#)
[Euro-REVES](#)
[Asia-REVES](#)
EU links
[Eurostat](#)
[Directorate General for Health and Consumer Affairs \(DG SANCO\)](#)
[European Community Health Indicators Monitoring \(ECHIM\)](#)
[European Union Public Health Information System \(EUPHIX\)](#)
[Research Directorate-General \(DG Research\)](#)
[Association on Higher Education And Disability \(AHEAD\)](#)

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Site contents

www.ehemu.eu

The screenshot shows the EHEMU website with the 'Site contents' section highlighted in the left sidebar. The main content area lists various site contents under the heading 'SITE CONTENTS'. The sidebar includes a navigation menu with options like Home, About EHEMU, Database, Training material, Publications, Bibliography, Useful links, and Site contents (selected). Below the menu is a 'Healthy Life Years' banner and a login section. The main content area lists site contents including Home, About EHEMU, Database and Information System, Training material, Publications, Bibliography, Links, Healthy Life Years, and Contact us.

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Site updated: 01/09/2007
Site version 2

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The screenshot displays the EHEMU website interface. At the top, there is a navigation bar with links: Home, Database, Contacts, Site contents, and a search box. Below this is the EHEMU logo and the full name 'European Health Expectancy Monitoring Unit' with its French equivalent 'Observatoire Européen des Espérances de Santé'. A left sidebar contains a menu with items: Home, About EHEMU, Database, Training material, Publications, Bibliography, Useful links, and Site contents. The 'Site contents' item is highlighted with an orange arrow pointing to the 'Healthy Life Years (HLY)' section header, which features the European Union flag. Below the header, three bullet points are listed: 'Healthy Life Years in the core of the Lisbon Strategy (by SANCO)', 'Official values (Structural indicators on health by Eurostat)', and 'European Task Force on Health Expectancies (TF-HE)'. The 'TF-HE' link is highlighted with an orange box. At the bottom of the page, there is a footer with information about the site's hosting and funding, and a 'Sign in' button is visible in the sidebar.

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Healthy Life Years (HLY)

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- Official values (Structural indicators on health by Eurostat)
- European Task Force on Health Expectancies (TF-HE)

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This screenshot is identical to the one above, showing the EHEMU website's 'Healthy Life Years (HLY)' section. The layout, including the navigation bar, sidebar menu, and main content area, is the same. The only difference is that the link 'European Task Force on Health Expectancies (TF-HE)' in the list of bullet points is now enclosed in an orange rectangular box, while the arrow from the sidebar menu is no longer present.

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- Official values (Structural indicators on health by Eurostat)
- European Task Force on Health Expectancies (TF-HE)

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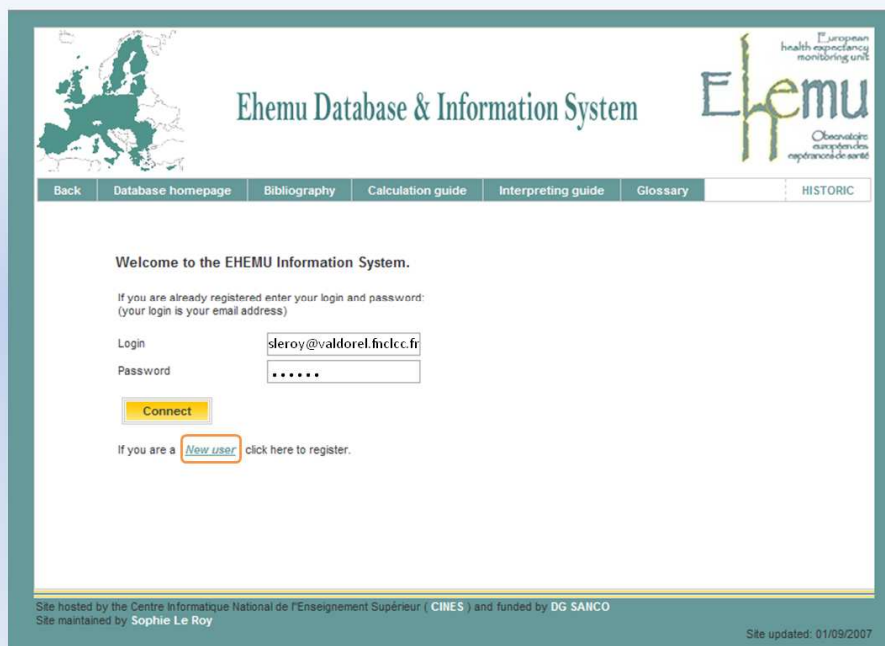
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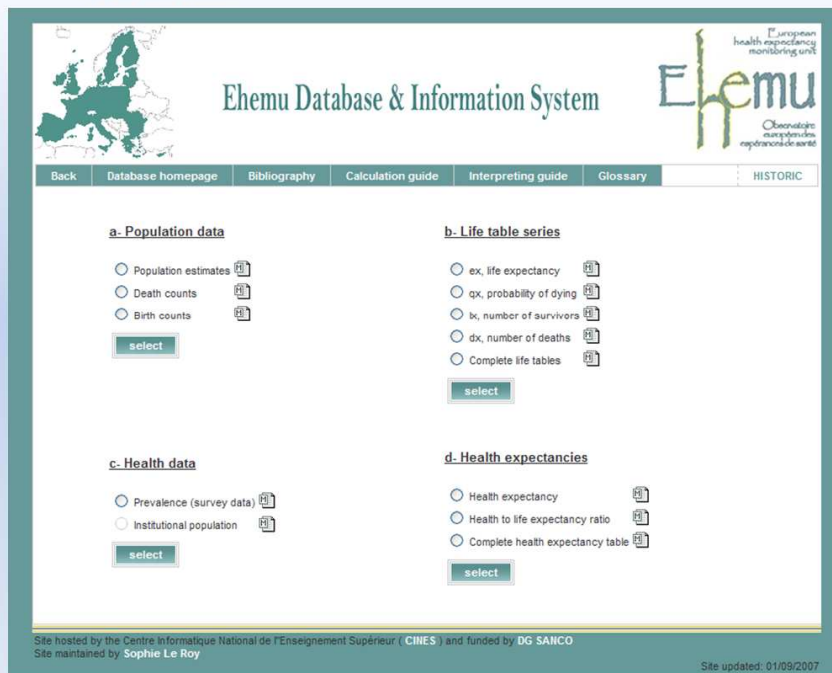
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Ehemu Database & Information System

European health expectancy monitoring unit
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- ☐ Population estimates
- ☐ Death counts
- ☐ Birth counts

b. Life table series

- ☐ ex, life expectancy
- ☐ qx, probability of dying
- ☐ lx, number of survivors
- ☐ dx, number of deaths
- ☐ Complete life tables

c. Health data

- ☐ Prevalence (survey data)
- ☐ Institutional population

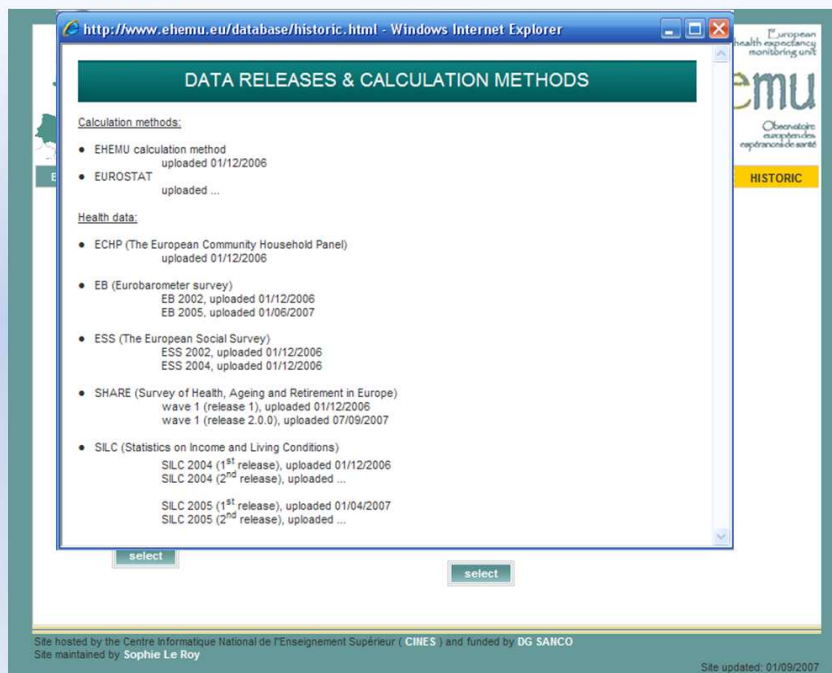
d. Health expectancies

- ☐ Health expectancy
- ☐ Health to life expectancy ratio
- ☐ Complete health expectancy table

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DATA RELEASES & CALCULATION METHODS

Calculation methods:

- EHEMU calculation method
uploaded 01/12/2006
- EUROSTAT
uploaded ...

Health data:


- ECHP (The European Community Household Panel)
uploaded 01/12/2006
- EB (Eurobarometer survey)
EB 2002, uploaded 01/12/2006
EB 2005, uploaded 01/06/2007
- ESS (The European Social Survey)
ESS 2002, uploaded 01/12/2006
ESS 2004, uploaded 01/12/2006
- SHARE (Survey of Health, Ageing and Retirement in Europe)
wave 1 (release 1), uploaded 01/12/2006
wave 1 (release 2.0.0), uploaded 07/09/2007
- SILC (Statistics on Income and Living Conditions)
SILC 2004 (1st release), uploaded 01/12/2006
SILC 2004 (2nd release), uploaded ...
SILC 2005 (1st release), uploaded 01/04/2007
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b. Life table series

☐ ex, life expectancy 
☐ qx, probability of dying 
☐ lx, number of survivors 
☐ dx, number of deaths 
☐ Complete life tables 

c. Health data

☐ Prevalence (survey data) 
☐ Institutional population 

d. Health expectancies

☐ Health expectancy 
☐ Health to life expectancy ratio 
☐ Complete health expectancy table 

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II - EHEMU Information System

Data selection

http://www.ehemu.eu/?id=3c - EHEMU - Windows Internet Explorer

www.ehemu.eu

HEALTH EXPECTANCY:

Site updated: 01/09/2007

Life expectancy is composed of lengths of time spent in different states of health until death. These lengths of time in different states of health are health expectancies and they combine information on both mortality and morbidity.

Health expectancies, of which disability-free life expectancy (DFLE) is one, provide a means of dividing life expectancy into life spent in various states of good and bad health. These measures represent the increasing focus on indicators of the quality of life lived (life spent in a healthy state) rather than, as previously, on the quantity (life expectancy). Health expectancies extend the concept of life expectancy to morbidity and disability. Health expectancies address whether or not the lengthening in life expectancy is being accompanied with an increase in time lived in bad health.

The idea of health expectancy had been put forward by Sanders as early as 1964 and a first method of calculation had been proposed by Sullivan in 1971. Since then, health expectancies have been increasingly used in industrialized countries to assess the evolution of the populations' health status, in particular that of older people. Being independent of the size of populations and of their age structure, health expectancies allow direct comparison of the different groups that make up populations: e.g. sexes, socio-professional categories, regions.

The European structural indicator Healthy Life Years ([HLY](#)) is one of these health expectancies belonging to the class of disability-free life expectancy (DFLE).

Source: [EHEMU Technical Report 2005 2](#)

Calculation of Disability-Free Life Expectancy (DFLE)

Now we need to enter the disability prevalence. We do not have this in single years of age so we match up the prevalence data to the life table data by assuming that each single year of age has the same prevalence as that age group (compare Table 1.1 and Table 1.4 column[10]). We also assume that at birth the prevalence of disability is 0. We could have used more sophisticated methods to get the prevalence by single year from the age grouped data, for instance by fitting a regression model to the five year age groups and using this to estimate the values at single ages.

7. Disability-Free Life Expectancy (DFLE) is found by partitioning the person years lived at that age into those lived with and without disability. To get the person years lived without disability (Table 1.5 column[11]), we multiply the person years lived at that age (column[7]) by the proportion of people without disability at that age (1 - column[10]). Since the Belgium survey had a complex design column[10] contains the weighted rates, that is to say prevalence rates adjusted for the design characteristics.

8. The total number of years lived without disability (column[12]) are found from column[11] in the same way as in paragraph 5 above.

9. Similarly the DFLE at each age (column[13]) is found in the same way as paragraph 6, from column[12] divided by column[6]. Thus a woman aged 80 years in 2004 could expect to live 8.7 years of which 4.6 years (52.9%) would be free of disability.

Source: [Calculation guide](#)

Additional information on health expectancy can be found on the website of [REVES](#), the International Network on Health Expectancy and the Disability Process.

[EHEMU contacts](#)

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II - EHEMU Information System Data selection

www.ehemu.eu

Ehemu Database & Information System

European health expectancy monitoring unit
Observatoire européen des espérances de santé

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a. Population data

☒ Population estimates

☐ Death counts

☐ Birth counts

select

b. Life table series

☐ ex, life expectancy

☐ qx, probability of dying

☐ lx, number of survivors

☐ dx, number of deaths

☐ Complete life tables

select

c. Health data

☐ Prevalence (survey data)

☐ Institutional population

select

d. Health expectancies

☐ Health expectancy

☐ Health to life expectancy ratio

☐ Complete health expectancy table

select

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II - EHEMU Information System Population data

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European health expectancy monitoring unit
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Population estimates

Countries	Years	Ages
Austria	1995	0
Belgium	1996	1
Bulgaria	1997	2
Cyprus	1998	3
CzechRepublic	1999	4
Denmark	2000	5
Estonia	2001	6
Finland	2002	7
France	2003	8
Germany	2004	9
Greece	2005	10

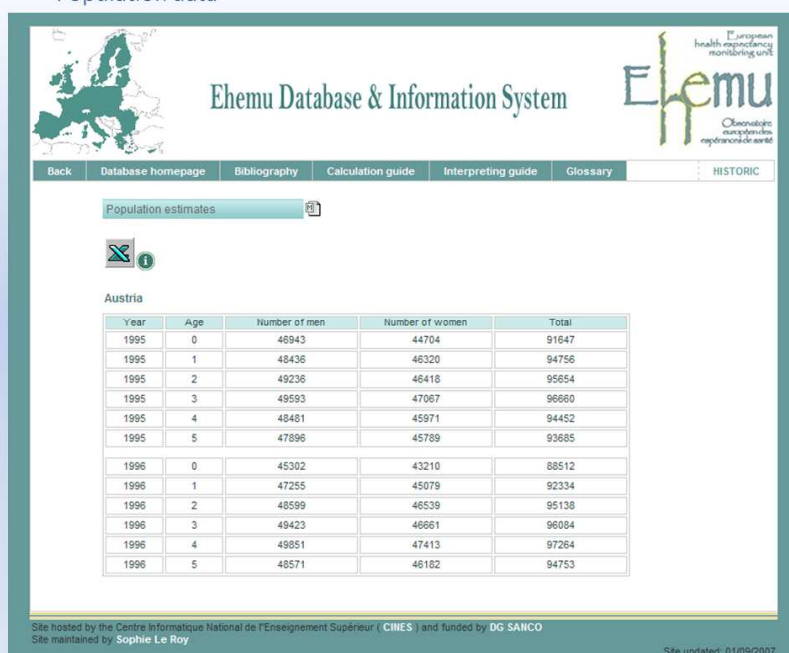
Select **clear**

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II - EHEMU Information System Population data

www.ehemu.eu

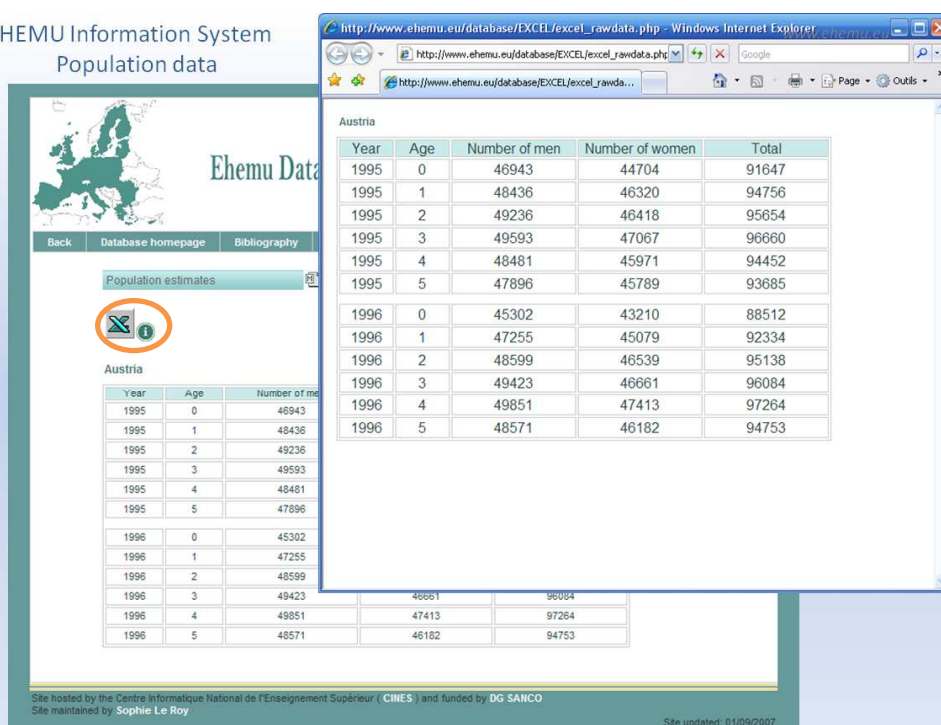


The screenshot shows the Ehemu Database & Information System interface. At the top, there is a map of Europe and the Ehemu logo. Below the map, a navigation bar includes links: Back, Database homepage, Bibliography, Calculation guide, Interpreting guide, Glossary, and HISTORIC. The main content area is titled "Population estimates" and features a table for Austria. The table displays population data for the years 1995 and 1996, categorized by age (0 to 5) and sex (men and women), with a total population column. A small icon of a crossed wrench and screwdriver is circled in red.

Year	Age	Number of men	Number of women	Total
1995	0	46943	44704	91647
1995	1	48436	46320	94756
1995	2	49236	46418	95654
1995	3	49593	47067	96660
1995	4	48481	45971	94452
1995	5	47896	45789	93685
1996	0	45302	43210	88512
1996	1	47255	45079	92334
1996	2	48599	46539	95138
1996	3	49423	46661	96084
1996	4	49851	47413	97264
1996	5	48571	46182	94753

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II - EHEMU Information System Population data



This screenshot shows the same Ehemu Database & Information System interface as the first image, but with a detailed view of the population data table for Austria. The table is displayed in a larger font and includes the same columns: Year, Age, Number of men, Number of women, and Total. The data is organized by year (1995 and 1996) and age (0 to 5). A small icon of a crossed wrench and screwdriver is circled in red. The browser window title is "http://www.ehemu.eu/database/EXCEL/excel_rawdata.php - Windows Internet Explorer".

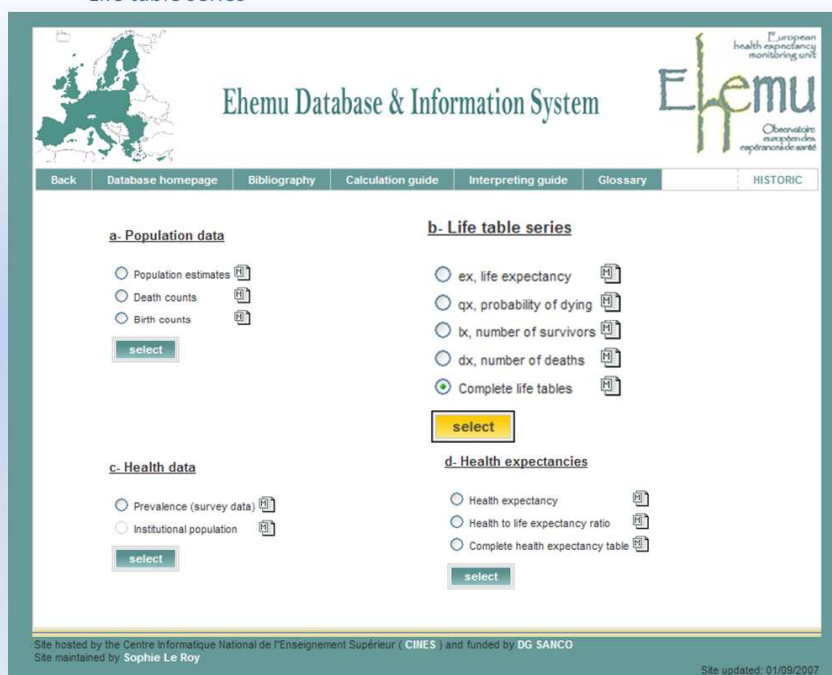
Year	Age	Number of men	Number of women	Total
1995	0	46943	44704	91647
1995	1	48436	46320	94756
1995	2	49236	46418	95654
1995	3	49593	47067	96660
1995	4	48481	45971	94452
1995	5	47896	45789	93685
1996	0	45302	43210	88512
1996	1	47255	45079	92334
1996	2	48599	46539	95138
1996	3	49423	46661	96084
1996	4	49851	47413	97264
1996	5	48571	46182	94753

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II - EHEMU Information System

Life table series

www.ehemu.eu






Ehemu Database & Information System






European health expectancy monitoring unit
Observatoire européen des espérances de santé

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a- Population data

☐ Population estimates 
☐ Death counts 
☐ Birth counts 




b- Life table series

☐ ex, life expectancy 
☐ qx, probability of dying 
☐ lx, number of survivors 
☐ dx, number of deaths 
☒ Complete life tables 

c- Health data

☐ Prevalence (survey data) 
☐ Institutional population 

d- Health expectancies

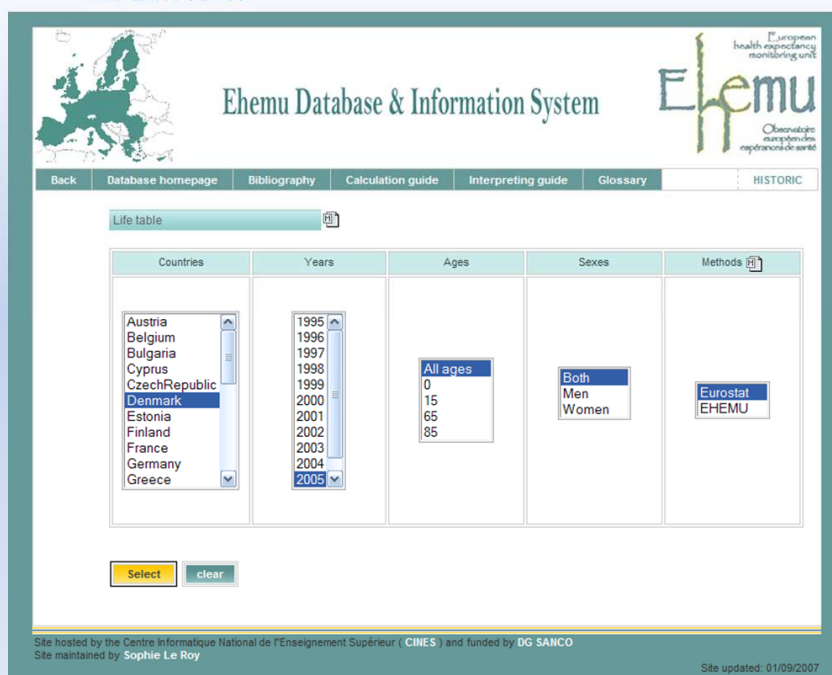
☐ Health expectancy 
☐ Health to life expectancy ratio 
☐ Complete health expectancy table 

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II - EHEMU Information System

Life table series


www.ehemu.eu




Ehemu Database & Information System

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Life table 

Countries	Years	Ages	Sexes	Methods 
Austria Belgium Bulgaria Cyprus CzechRepublic Denmark Estonia Finland France Germany Greece	1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005	All ages 0 15 65 85	Both Men Women	Eurostat EHEMU

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Life table

Life table/ Denmark/ 2005/ all ages/ both sexes

Denmark						2005 Men						Denmark						2005 Women					
Age	qx	lx	dx	Lx	ex	Age	qx	lx	dx	Lx	ex	Age	qx	lx	dx	Lx	ex	Age	qx	lx	dx	Lx	ex
0	0.00504402	100000	504.402	99747.799	76.0	0	0.00356979	100000	356.979	99714.417	80.5	0	0.00356979	100000	356.979	99714.417	80.5	1	0.00027023	99496.598	26.887	99482.154	75.3
1	0.00027023	99496.598	26.887	99482.154	75.3	1	0.00025175	99643.021	25.086	99630.478	79.8	2	9.022E-5	99468.711	8.974	99464.224	74.4	2	0.00012645	99617.935	12.597	99611.637	78.8
2	9.022E-5	99468.711	8.974	99464.224	74.4	2	0.00012645	99617.935	12.597	99611.637	78.8	3	0.00026934	99459.737	26.788	99446.343	73.4	3	0.00015697	99605.338	15.635	99597.521	77.8
3	0.00026934	99459.737	26.788	99446.343	73.4	3	0.00015697	99605.338	15.635	99597.521	77.8	4	0.00020526	99432.948	20.41	99422.744	72.4	4	0.00015305	99589.703	15.242	99582.082	76.8
4	0.00020526	99432.948	20.41	99422.744	72.4	4	0.00015305	99589.703	15.242	99582.082	76.8	5	8.715E-5	99412.539	8.664	99408.207	71.4	5	6.07E-5	99574.461	6.045	99571.439	75.8
5	8.715E-5	99412.539	8.664	99408.207	71.4	5	6.07E-5	99574.461	6.045	99571.439	75.8	6	8.734E-5	99403.875	8.682	99399.533	70.4	6	3.05E-5	99568.416	3.037	99566.898	74.8
6	8.734E-5	99403.875	8.682	99399.533	70.4	6	3.05E-5	99568.416	3.037	99566.898	74.8	7	8.594E-5	99395.192	8.542	99390.921	69.4	7	6.041E-5	99565.379	6.014	99562.372	73.8
7	8.594E-5	99395.192	8.542	99390.921	69.4	7	6.041E-5	99565.379	6.014	99562.372	73.8	8	0.00016955	99386.65	16.851	99378.224	68.4	8	8.929E-5	99559.365	8.89	99554.92	72.9
8	0.00016955	99386.65	16.851	99378.224	68.4	8	8.929E-5	99559.365	8.89	99554.92	72.9	9	0.00016585	99369.799	16.481	99361.558	67.4	9	2.918E-5	99550.475	2.905	99549.023	71.9
9	0.00016585	99369.799	16.481	99361.558	67.4	9	2.918E-5	99550.475	2.905	99549.023	71.9	10	8.145E-5	99353.318	8.092	99349.272	66.4	10	2.857E-5	99547.571	2.844	99546.149	70.9
10	8.145E-5	99353.318	8.092	99349.272	66.4	10	2.857E-5	99547.571	2.844	99546.149	70.9	11	8.268E-5	99345.226	8.214	99341.119	65.5	11	2.894E-5	99544.726	2.88	99543.286	69.9
11	8.268E-5	99345.226	8.214	99341.119	65.5	11	2.894E-5	99544.726	2.88	99543.286	69.9	12	0.00013912	99337.013	13.82	99330.103	64.5	12	5.876E-5	99541.846	5.849	99538.921	68.9
12	0.00013912	99337.013	13.82	99330.103	64.5	12	5.876E-5	99541.846	5.849	99538.921	68.9	13	5.661E-5	99323.193	5.623	99320.381	63.5	13	0.00011955	99535.997	11.9	99530.047	67.9
13	5.661E-5	99323.193	5.623	99320.381	63.5	13	0.00011955	99535.997	11.9	99530.047	67.9	14	0.0001453	99317.569	14.431	99310.354	62.5	14	0.00012257	99524.097	12.199	99517.998	66.9
14	0.0001453	99317.569	14.431	99310.354	62.5	14	0.00012257	99524.097	12.199	99517.998	66.9	15	0.00023652	99303.139	23.487	99291.395	61.5	15	0.00012479	99511.898	12.418	99505.689	65.9
15	0.00023652	99303.139	23.487	99291.395	61.5	15	0.00012479	99511.898	12.418	99505.689	65.9	16	0.00048898	99279.651	48.546	99255.378	60.5	16	0.00012912	99499.48	12.847	99493.057	64.9
16	0.00048898	99279.651	48.546	99255.378	60.5	16	0.00012912	99499.48	12.847	99493.057	64.9	17	0.00047423	99231.105	47.059	99207.576	59.5	17	0.00026915	99486.633	26.677	99472.294	63.9
17	0.00047423	99231.105	47.059	99207.576	59.5	17	0.00026915	99486.633	26.677	99472.294	63.9	18	0.00064631	99184.046	63.941	99142.076	58.5	18	0.00030985	99459.956	30.817	99444.547	62.9
18	0.00064631	99184.046	63.941	99142.076	58.5	18	0.00030985	99459.956	30.817	99444.547	62.9	19	0.00063158	99100.106	62.589	99068.811	57.6	19	0.00024509	99429.138	24.369	99416.954	61.9
19	0.00063158	99100.106	62.589	99068.811	57.6	19	0.00024509	99429.138	24.369	99416.954	61.9												





Ehemu Database & Information System




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a. Population data


☐ Population estimates 


☐ Death counts 


☐ Birth counts 


select


b. Life table series

☐ ex, life expectancy 

☐ qx, probability of dying 


☐ lx, number of survivors 


☐ dx, number of deaths 

☐ Complete life tables 

select


c. Health data


☒ Prevalence (survey data) 


☐ Institutional population 

select

d. Health expectancies

☐ Health expectancy 

☐ Health to life expectancy ratio 

☐ Complete health expectancy table 

select

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II - EHEMU Information System Health data

www.ehemu.eu

The screenshot shows the Ehemu Database & Information System interface. At the top left is a map of Europe. The title "Ehemu Database & Information System" is centered, with the Ehemu logo on the right. Below the title is a navigation bar with links: Back, Database homepage, Bibliography, Calculation guide, Interpreting guide, Glossary, and HISTORIC. The main content area is titled "Prevalence" and contains several survey options, each with a radio button and a small icon:

- ECHP** (The European Community Household Panel) with radio buttons for 1995-2001 and 2002.
- EB** (Eurobarometer survey) with radio buttons for 2002 and 2005.
- ESS** (The European Social Survey) with radio buttons for 2002 and 2004.
- SHARE** (Survey of Health, Ageing and Retirement in Europe) with a radio button for 2004.
- SILC** (Statistics on Income and Living Conditions) with radio buttons for 2004 and 2005 (only for the EHEMU members).

A yellow "Select" button is at the bottom of the survey list. At the bottom of the page, it says: "Site hosted by the Centre Informatique National de l'Enseignement Supérieur (CINES) and funded by DG SANCO. Site maintained by Sophie Le Roy. Site updated: 01/09/2007".

II - EHEMU Information System Health data

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This screenshot shows the same Ehemu Database & Information System interface as the first one, but with the "SILC" survey selected in the "Prevalence" dropdown menu. Below the dropdown, there are three radio button options for the selected survey:

- Self-perceived health**
- Morbidity**
- Activity limitation** (which is selected)

A yellow "Select" button is at the bottom of these options. The rest of the interface, including the navigation bar and footer, is identical to the first screenshot.

II - EHEMU Information System Health data

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Ehemu Database & Information System

European health expectancy monitoring unit
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Prevalence SILC Activity limitation

Countries Years Ages Sexes

Austria
Belgium
Denmark
Estonia
Finland
France
Greece
Ireland
Italy

2004

All ages
65
85

Both
Men
Women

Select Clear

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Prevalence SILC Activity limitation

Raw Data

Prevalence/ France/ 2004/ all ages/ both sexes

France				France			
Age	Without activity limitation Men	Moderate activity limitation Men	Severe activity limitation Men	Age	Without activity limitation Women	Moderate activity limitation Women	Severe activity limitation Women
16	0.9394	0.0482	0.0124	16	0.9254	0.0693	0.0053
20	0.9447	0.0363	0.0191	20	0.9449	0.0445	0.0107
25	0.9012	0.0756	0.0232	25	0.9171	0.0754	0.0075
30	0.9055	0.0696	0.0249	30	0.9187	0.0634	0.0179
35	0.8834	0.0839	0.0327	35	0.8737	0.0972	0.0291
40	0.8683	0.1033	0.0284	40	0.8534	0.1127	0.0339
45	0.8197	0.1287	0.0516	45	0.7973	0.1563	0.0464
50	0.7896	0.1495	0.081	50	0.7559	0.1889	0.0553
55	0.7031	0.1912	0.1057	55	0.7145	0.2183	0.0672
60	0.6718	0.2438	0.0844	60	0.6835	0.2487	0.0670
65	0.6143	0.253	0.1327	65	0.5939	0.2767	0.1294
70	0.5272	0.3429	0.1299	70	0.5157	0.3365	0.1478
75	0.4087	0.3448	0.2466	75	0.4044	0.3611	0.2345
80	0.3476	0.3597	0.2927	80	0.386	0.3185	0.2955
85	0.3261	0.3182	0.3577	85	0.3027	0.3327	0.3645

II - EHEMU Information System Health data

www.ehemu.eu

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Prevalence/ France/ 2004/ all ages/ both sexes

France				France			
Age	Without activity limitation Men	Moderate activity limitation Men	Severe activity limitation Men	Age	Without activity limitation Women	Moderate activity limitation Women	Severe activity limitation Women
16	0.9394	0.0482	0.0124	16	0.9254	0.0693	0.0053
20	0.9447	0.0363	0.0191	20	0.9449	0.0445	0.0107
25	0.9012	0.0756	0.0232	25	0.9171	0.0754	0.0075
30	0.9055	0.0696	0.0249	30	0.9187	0.0634	0.0179
35	0.8834	0.0839	0.0327	35	0.8737	0.0972	0.0291
40	0.8683	0.1033	0.0284	40	0.8534	0.1127	0.0339
45	0.8197	0.1287	0.0516	45	0.7973	0.1563	0.0464
50	0.7696	0.1495	0.081	50	0.7559	0.1889	0.0553
55	0.7031	0.1912	0.1057	55	0.7145	0.2183	0.0672
60	0.6718	0.2438	0.0844	60	0.6835	0.2487	0.0678
65	0.6143	0.253	0.1327	65	0.5939	0.2767	0.1294
70	0.5272	0.3429	0.1299	70	0.5157	0.3365	0.1478
75	0.4087	0.3446	0.2468	75	0.4044	0.3611	0.2345
80	0.3476	0.3597	0.2927	80	0.386	0.3185	0.2955
85	0.3261	0.3162	0.3577	85	0.3027	0.3327	0.3645

II - EHEMU Information System Health data

www.ehemu.eu

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Prevalence

SILC

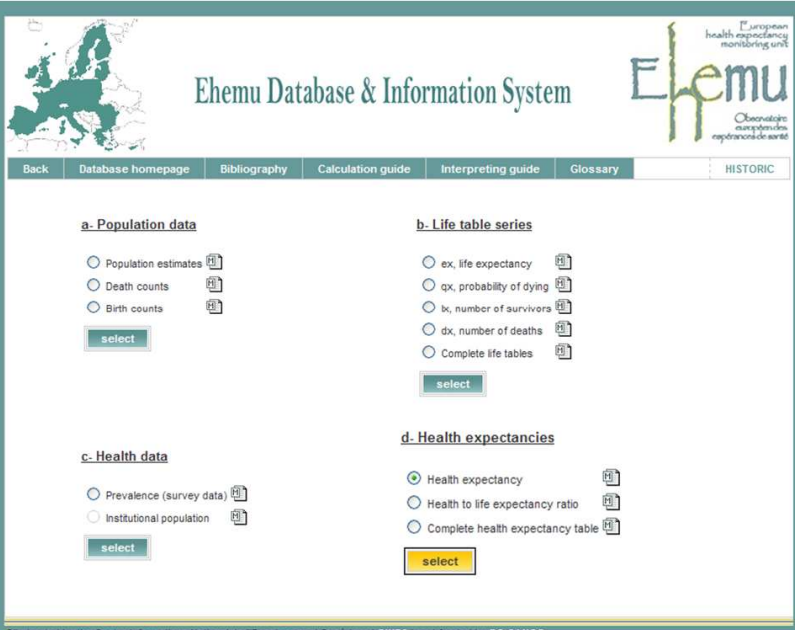
Activity limitation

Raw data/ France/ 2004/ all ages/ both sexes

2004							2004						
France	Number of participants	Number of respondents	Without activity limitation	Moderate activity limitation	Severe activity limitation	Missing	France	Number of participants	Number of respondents	Without activity limitation	Moderate activity limitation	Severe activity limitation	Missing
Men	Unweighted	Unweighted	Weighted	Weighted	Weighted	Weighted	Women	Unweighted	Unweighted	Weighted	Weighted	Weighted	Weighted
16	1216	1216	2372385.99	121786.91	31233.91	0	16	1129	1129	2136106.08	159689.69	12186.11	0
20	862	862	1994331.64	76553.26	40272.2	0	20	890	890	2065118.22	97244.38	23293	0
25	708	708	1955536.37	164141.24	50353.17	0	25	1109	1109	2771813.34	227906.22	22758.29	0
30	1081	1080	2318854.01	178336.06	63735.6	3513.19	30	2022	2022	4100453.67	282964.32	79747.07	0
35	1167	1167	2390805.51	227099.25	88536.17	0	35	2027	2027	3803205.76	423223.83	126458.23	0
40	1078	1078	2135004.26	253987.88	69710.1	0	40	1506	1501	2782057.34	364707.41	109767.26	9005.04
45	915	915	1743285.4	273716.05	109771.63	0	45	1109	1109	1963414.95	384057.7	114232.3	0
50	946	946	1592536.14	309298.44	167528.9	0	50	923	923	1548314.97	386876.45	113186.11	0
55	713	713	1177662.22	320206.97	177131.25	0	55	820	820	1392780.83	425568.88	130947.2	0
60	525	525	936731.27	339950.14	117715.79	0	60	575	575	967070.04	359149.49	97856.88	0
65	465	465	717610.13	295490.79	155070.98	0	65	605	604	881425.13	410653.46	192101.44	3010.11
70	473	473	632682.9	411519.94	155923.73	0	70	580	580	718012.95	468452.58	205789.79	0
75	355	355	364817.9	307599.22	220302.24	0	75	425	425	505409.6	451229.73	293077.57	0
80	205	205	190016.02	196654.4	160025.41	0	80	313	313	381091.46	314418.86	291690.25	0
85	56	56	58576.45	39826.61	61753.87	0	85	96	96	115368.73	102042.44	76762.81	0
90	25	25	12388.47	31074.32	25959.32	0	90	56	56	35186.05	60936.91	94296.57	0
95+	5	5	4069.66	1857.86	4596.2	0	95+	7	7	2376.61	5091.3	13081.75	0

II - EHEMU Information System Health expectancies

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- ☐ dx, number of deaths
- ☐ Complete life tables

c. Health data

- ☐ Prevalence (survey data)
- ☐ Institutional population

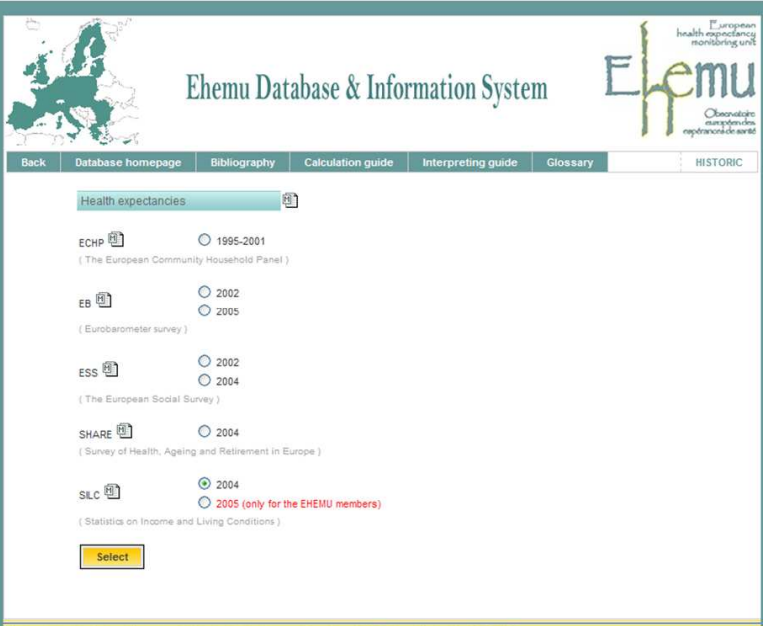
d. Health expectancies

- ☒ Health expectancy
- ☐ Health to life expectancy ratio
- ☐ Complete health expectancy table

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Health expectancies

ECHP ☐ 1995-2001
(The European Community Household Panel)

EB ☐ 2002
☐ 2005
(Eurobarometer survey)

ESS ☐ 2002
☐ 2004
(The European Social Survey)

SHARE ☐ 2004
(Survey of Health, Ageing and Retirement in Europe)

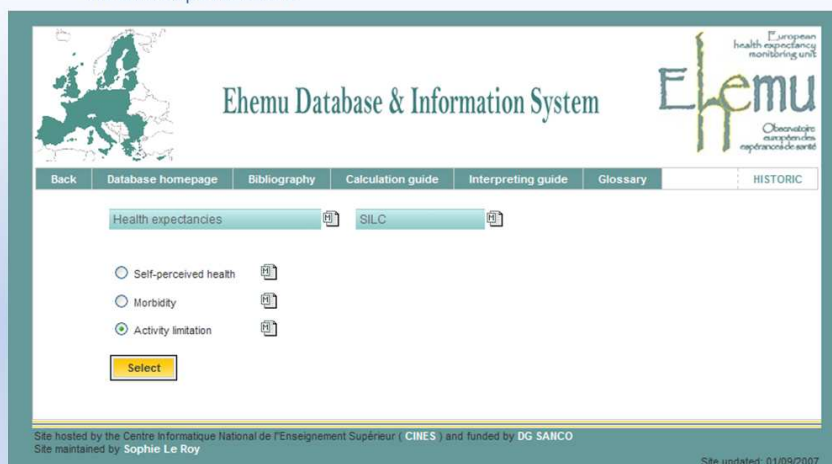
SLC ☒ 2004
☐ 2005 (only for the EHEMU members)
(Statistics on Income and Living Conditions)

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Health expectancies SILC

☐ Self-perceived health
☐ Morbidity
☒ Activity limitation

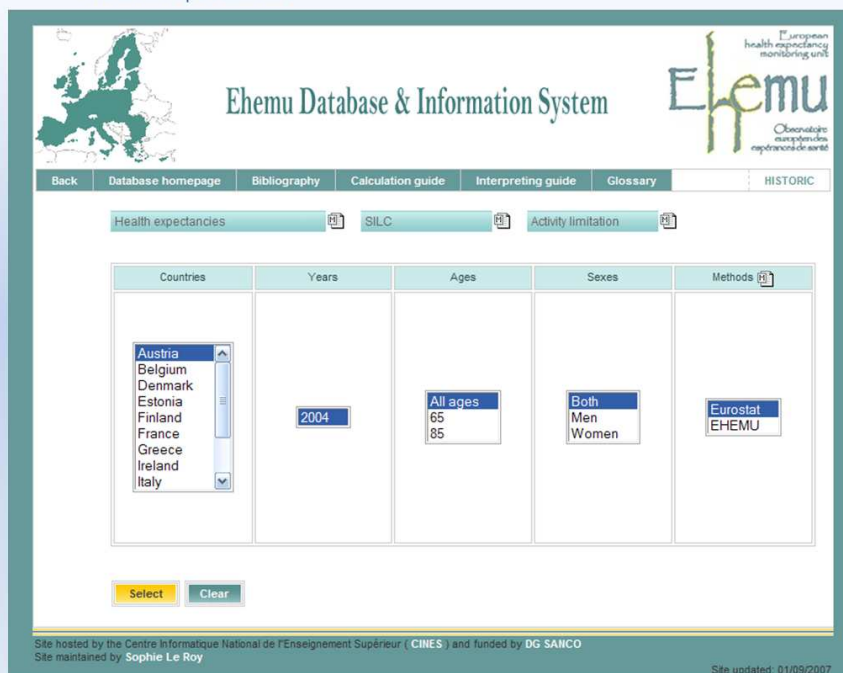
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Health expectancies SILC Activity limitation

Countries	Years	Ages	Sexes	Methods
Austria Belgium Denmark Estonia Finland France Greece Ireland Italy	2004	All ages 65 85	Both Men Women	Eurostat EHEMU

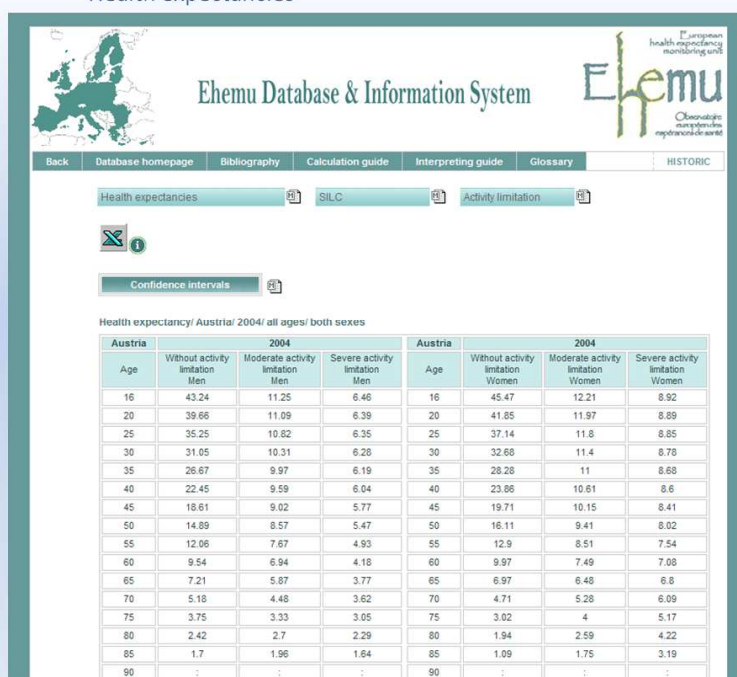
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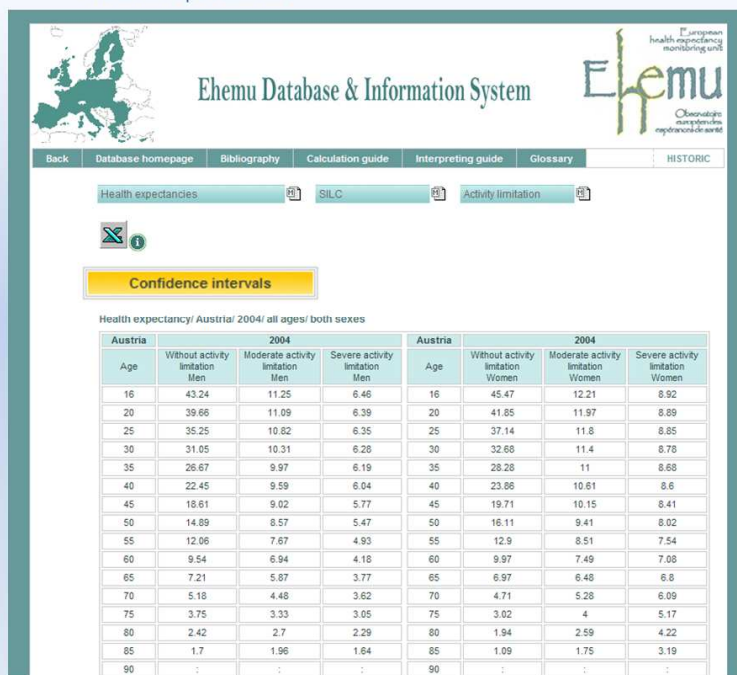
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Health expectancy/ Austria/ 2004/ all ages/ both sexes


		2004											2004								
Austria		Without activity limitation Men			Moderate activity limitation Men			Severe activity limitation Men			Austria		Without activity limitation Women			Moderate activity limitation Women			Severe activity limitation Women		
Age	HE	Lower CI	Upper CI	HE	Lower CI	Upper CI	HE	Lower CI	Upper CI		Age	HE	Lower CI	Upper CI	HE	Lower CI	Upper CI	HE	Lower CI	Upper CI	
16	43.24	42.45	44.02	11.25	10.52	11.98	6.46	5.85	7.06		16	45.47	44.72	46.22	12.21	11.48	12.93	8.92	8.28	9.57	
20	39.66	38.88	40.45	11.09	10.36	11.82	6.39	5.78	7		20	41.85	41.11	42.6	11.97	11.25	12.69	8.89	8.24	9.54	
25	35.25	34.47	36.03	10.82	10.1	11.54	6.35	5.74	6.95		25	37.14	36.4	37.88	11.8	11.08	12.51	8.85	8.2	9.5	
30	31.05	30.29	31.81	10.31	9.6	11.01	6.26	5.68	6.89		30	32.68	31.95	33.41	11.4	10.69	12.1	8.78	8.13	9.43	
35	26.67	25.91	27.42	9.97	9.27	10.67	6.19	5.58	6.79		35	28.28	27.55	29	11	10.3	11.7	8.68	8.03	9.32	
40	22.45	21.7	23.2	9.59	8.89	10.28	6.04	5.44	6.65		40	23.86	23.14	24.58	10.61	9.91	11.31	8.6	7.96	9.25	
45	18.61	17.88	19.34	9.02	8.34	9.71	5.77	5.17	6.37		45	19.71	19	20.42	10.15	9.45	10.84	8.41	7.76	9.05	
50	14.89	14.17	15.61	8.57	7.89	9.25	5.47	4.88	6.07		50	16.11	15.41	16.8	9.41	8.73	10.09	8.02	7.39	8.66	
55	12.06	11.37	12.76	7.67	7	8.33	4.93	4.35	5.52		55	12.9	12.24	13.56	8.51	7.85	9.17	7.54	6.92	8.17	
60	9.54	8.87	10.21	6.94	6.29	7.59	4.18	3.61	4.75		60	9.97	9.34	10.6	7.49	6.86	8.12	7.08	6.46	7.69	
65	7.21	6.55	7.88	5.87	5.22	6.52	3.77	3.2	4.35		65	6.97	6.36	7.57	6.48	5.86	7.09	6.8	6.18	7.42	
70	5.18	4.54	5.83	4.48	3.85	5.12	3.62	3.02	4.23		70	4.71	4.17	5.26	5.28	4.71	5.86	6.09	5.5	6.68	
75	3.75	3.1	4.4	3.33	2.69	3.98	3.05	2.43	3.68		75	3.02	2.54	3.5	4	3.47	4.54	5.17	4.61	5.74	
80	2.42	1.73	3.11	2.7	1.99	3.42	2.29	1.61	2.98		80	1.94	1.49	2.4	2.59	2.08	3.1	4.22	3.66	4.78	
85	1.7	0.78	2.62	1.96	1.01	2.9	1.64	0.73	2.55		85	1.09	0.61	1.57	1.75	1.18	2.32	3.19	2.56	3.81	
90	:	:	:	:	:	:	:	:	:		90	:	:	:	:	:	:	:	:	:	


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Health expectancy/ Austria/ 2004/ all ages/ both sexes

Austria 2004				Austria 2004			
Age	Total LE Men	LE without activity limitation Men	HE/LE % Men	Age	Total LE Women	LE without activity limitation Women	HE/LE % Women
16	60.94	43.24	70.95	16	66.6	45.47	68.27
20	57.14	39.66	69.41	20	62.71	41.85	66.74
25	52.42	35.25	67.25	25	57.79	37.14	64.27
30	47.64	31.05	65.18	30	52.86	32.68	61.83
35	42.83	26.67	62.27	35	47.95	28.28	58.97
40	38.08	22.45	58.96	40	43.07	23.86	55.4
45	33.4	18.61	55.71	45	38.26	19.71	51.51
50	28.93	14.89	51.46	50	33.54	16.11	48.02
55	24.66	12.06	48.91	55	28.95	12.9	44.56
60	20.66	9.54	46.17	60	24.53	9.97	40.63
65	16.85	7.21	42.79	65	20.24	6.97	34.43
70	13.29	5.18	39.01	70	16.09	4.71	29.31
75	10.14	3.75	37.01	75	12.2	3.02	24.75
80	7.41	2.42	32.59	80	8.76	1.94	22.21
85	5.3	1.7	32.1	85	6.03	1.09	18.04



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☐ Complete life tables

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c. Health data

☐ Prevalence (survey data)

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☐ Health expectancy

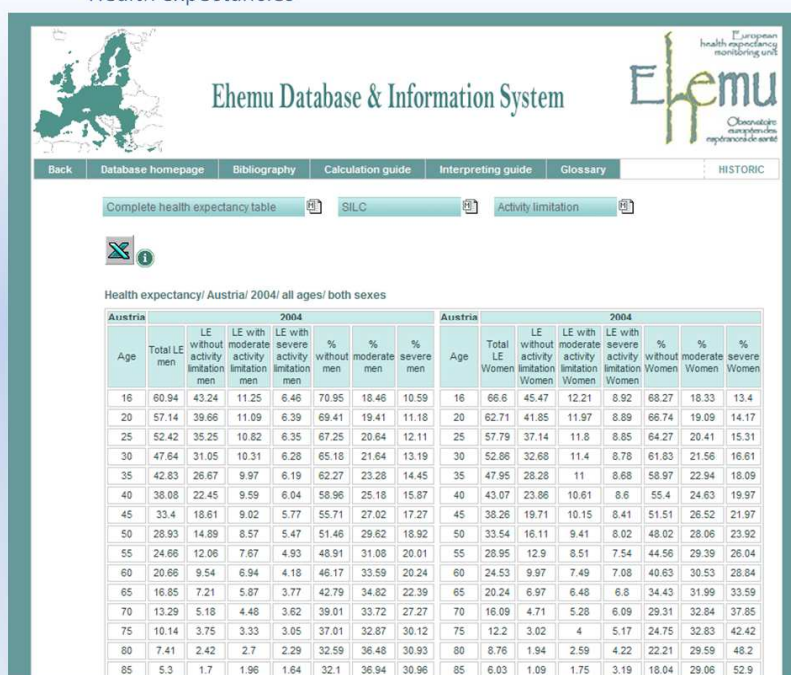
☐ Health to life expectancy ratio

☒ Complete health expectancy table

[select](#)

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The screenshot shows the Ehemu Database & Information System interface. At the top, there is a navigation bar with links: Back, Database homepage, Bibliography, Calculation guide, Interpreting guide, Glossary, and HISTORIC. Below this is a search bar with the text 'Complete health expectancy table' and filters for 'SILC' and 'Activity limitation'. The main content area displays a table titled 'Health expectancy/ Austria/ 2004/ all ages/ both sexes'. The table is divided into two sections: 'Austria men' and 'Austria Women'. Each section has columns for Age, Total LE, LE without activity limitation, LE with moderate activity limitation, LE with severe activity limitation, % without, % moderate, and % severe. The data is presented for ages 16 to 85.

Austria men								Austria Women							
Age	Total LE	LE without activity limitation	LE with moderate activity limitation	LE with severe activity limitation	% without	% moderate	% severe	Age	Total LE	LE without activity limitation	LE with moderate activity limitation	LE with severe activity limitation	% without	% moderate	% severe
16	60.94	43.24	11.25	6.46	70.95	18.46	10.59	16	66.6	45.47	12.21	8.92	68.27	18.33	13.4
20	57.14	39.66	11.09	6.39	69.41	19.41	11.18	20	62.71	41.85	11.97	8.89	66.74	19.09	14.17
25	52.42	35.25	10.82	6.35	67.25	20.64	12.11	25	57.79	37.14	11.8	8.85	64.27	20.41	15.31
30	47.64	31.05	10.31	6.28	65.18	21.64	13.19	30	52.86	32.68	11.4	8.78	61.83	21.56	16.61
35	42.83	26.67	9.97	6.19	62.27	23.28	14.45	35	47.95	28.28	11	8.68	58.97	22.94	18.09
40	38.08	22.45	9.59	6.04	58.96	25.18	15.87	40	43.07	23.88	10.61	8.6	55.4	24.63	19.97
45	33.4	18.61	9.02	5.77	55.71	27.02	17.27	45	38.26	19.71	10.15	8.41	51.51	26.52	21.97
50	28.93	14.89	8.57	5.47	51.46	29.62	18.92	50	33.54	16.11	9.41	8.02	48.02	28.06	23.92
55	24.66	12.06	7.67	4.93	48.91	31.08	20.01	55	28.95	12.9	8.51	7.54	44.56	29.39	26.04
60	20.66	9.54	6.94	4.18	46.17	33.59	20.24	60	24.53	9.97	7.49	7.08	40.63	30.53	28.84
65	16.85	7.21	5.87	3.77	42.79	34.82	22.39	65	20.24	6.97	6.48	6.8	34.43	31.99	33.59
70	13.29	5.18	4.48	3.62	39.01	33.72	27.27	70	16.09	4.71	5.28	6.09	29.31	32.84	37.85
75	10.14	3.75	3.33	3.05	37.01	32.87	30.12	75	12.2	3.02	4	5.17	24.75	32.83	42.42
80	7.41	2.42	2.7	2.29	32.59	36.48	30.93	80	8.76	1.94	2.59	4.22	22.21	29.59	48.2
85	5.3	1.7	1.96	1.64	32.1	36.94	30.96	85	6.03	1.09	1.75	3.19	18.04	29.06	52.9

Merci de votre attention