Online Appendix

Healthy Lifespan Statistics Derived From Cross-Sectional Prevalence Data Using the Sullivan Method are Informative Summary Measures of Population Health^{*}

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^{*} This Online Appendix contains additional information regarding the article: https://comparativepopulationstudies.de/index.php/CPoS/article/view/555/404.

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1 Additional Tables

Tab. A1: List of chronic conditions included in the study

- 1. A heart attack including myocardial infarction or coronary thrombosis or any other heart problem including congestive heart failure
- 2. High blood pressure or hypertension
- 3. High blood cholesterol
- 4. A stroke or cerebral vascular disease
- 5. Diabetes or high blood sugar
- 6. Chronic lung disease such as chronic bronchitis or emphysema
- 7. Cancer or malignant tumour, including leukaemia or lymphoma, but excluding minor skin cancers
- 8. Parkinson disease
- 9. Alzheimer's disease, dementia, organic brain syndrome, senility or any other serious memory impairment
- 10. Other affective or emotional disorders, including anxiety, nervous or psychiatric problems
- 11. Rheumatoid arthritis
- 12. Osteoarthritis, or other rheumatism
- 13. Chronic kidney disease

Notes: Based on question *PH006* of wave 7 SHARE questionnaire. Conditions not included in the study but mentioned in the question and that might be reversible: Stomach or duodenal ulcer, peptic ulcer, cataracts, hip fracture, other fractures, other conditions that have not yet been mentioned. For the transition rates between health states required for the microsimulation model for the attrited individuals, health status was defined on the basis of the same list of conditions in waves prior to wave 7 (where possible, only small exceptions apply).

| | W | omen | Ν | Men | | | |
|----------------|-------|----------|-------|----------|--|--|--|
| Country | Total | Observed | Total | Observed | | | |
| Belgium | 5518 | 2720 | 4472 | 2153 | | | |
| France | 4868 | 1930 | 3581 | 1378 | | | |
| Italy | 4739 | 2514 | 3763 | 2043 | | | |
| Czech Republic | 4631 | 2523 | 3204 | 1679 | | | |
| Germany | 4309 | 2024 | 3605 | 1777 | | | |
| Spain | 4169 | 2619 | 3273 | 2063 | | | |
| Estonia | 3953 | 3113 | 2497 | 1945 | | | |
| Sweden | 3469 | 1724 | 2803 | 1463 | | | |
| Greece | 3209 | 1768 | 2498 | 1292 | | | |
| Slovenia | 3121 | 2127 | 2413 | 1532 | | | |
| Austria | 3117 | 1876 | 2168 | 1297 | | | |
| Poland | 3056 | 2595 | 2391 | 2071 | | | |
| Denmark | 2742 | 1760 | 2320 | 1474 | | | |
| Switzerland | 2452 | 1311 | 1927 | 1079 | | | |
| Croatia | 1533 | 1336 | 1200 | 1056 | | | |
| Hungary | 1372 | 921 | 968 | 599 | | | |
| Lithuania | 1294 | 1294 | 724 | 724 | | | |
| Luxembourg | 1230 | 676 | 1031 | 563 | | | |
| Romania | 1200 | 1200 | 880 | 880 | | | |
| Bulgaria | 1153 | 1153 | 830 | 830 | | | |
| Slovakia | 1108 | 1108 | 934 | 934 | | | |
| Latvia | 1093 | 1093 | 629 | 629 | | | |
| Finland | 1077 | 1077 | 920 | 920 | | | |
| Cyprus | 727 | 727 | 492 | 492 | | | |
| Malta | 706 | 706 | 548 | 548 | | | |

Tab. A2: Sample size by country, total* and observed, all countries in SHARE
wave 7

* Total sample consists of respondents observed in wave 7 and respondents who were not observed in wave 7 because they had dropped out of the panel sample prior to this wave.. The health state at wave 7 of attrited respondents is derived in a microsimulation model as described in *Muszyńska-Spielauer* and *Spielauer* (2022).

Countries are ranked by the size of the total sample of female respondents.

Source: Own estimations based on data from SHARE (*Börsch-Supan* 2020; *Börsch-Supan et al.* 2013)

| Country | | | | Age | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|
| | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75-80 | 80-85 |
| Average | 52.7 | 57.7 | 62.7 | 67.6 | 72.6 | 77.6 | 82.6 |
| | | | | Women | | | |
| Austria | 0.72 | 0.48 | 0.37 | 0.26 | 0.20 | 0.21 | 0.19 |
| Belgium | 0.44 | 0.29 | 0.27 | 0.22 | 0.15 | 0.18 | 0.13 |
| Czech Republic | 0.36 | 0.34 | 0.19 | 0.13 | 0.06 | 0.06 | 0.10 |
| Germany | 0.41 | 0.35 | 0.22 | 0.24 | 0.18 | 0.15 | 0.08 |
| Denmark | 0.57 | 0.46 | 0.34 | 0.30 | 0.18 | 0.16 | 0.11 |
| Estonia | 0.54 | 0.42 | 0.34 | 0.28 | 0.17 | 0.17 | 0.12 |
| Greece | 0.71 | 0.48 | 0.32 | 0.19 | 0.11 | 0.07 | 0.07 |
| Spain | 0.37 | 0.38 | 0.30 | 0.28 | 0.21 | 0.16 | 0.09 |
| France | 0.50 | 0.44 | 0.29 | 0.21 | 0.19 | 0.17 | 0.08 |
| Italy | 0.53 | 0.60 | 0.39 | 0.32 | 0.18 | 0.18 | 0.07 |
| Poland | 0.50 | 0.36 | 0.30 | 0.20 | 0.09 | 0.10 | 0.06 |
| Sweden | 0.56 | 0.47 | 0.44 | 0.32 | 0.29 | 0.16 | 0.11 |
| Slovenia | 0.52 | 0.50 | 0.33 | 0.23 | 0.18 | 0.10 | 0.16 |
| | | | | Men | | | |
| Austria | 0.53 | 0.48 | 0.34 | 0.27 | 0.17 | 0.15 | 0.09 |
| Belgium | 0.38 | 0.29 | 0.22 | 0.18 | 0.10 | 0.09 | 0.06 |
| Czech Republic | 0.43 | 0.33 | 0.17 | 0.14 | 0.08 | 0.06 | 0.03 |
| Germany | 0.45 | 0.38 | 0.23 | 0.23 | 0.12 | 0.12 | 0.08 |
| Denmark | 0.60 | 0.48 | 0.39 | 0.30 | 0.23 | 0.10 | 0.07 |
| Estonia | 0.51 | 0.39 | 0.29 | 0.21 | 0.10 | 0.06 | 0.03 |
| Greece | 0.67 | 0.48 | 0.28 | 0.16 | 0.13 | 0.05 | 0.04 |
| Spain | 0.63 | 0.38 | 0.23 | 0.18 | 0.09 | 0.08 | 0.03 |
| France | 0.49 | 0.37 | 0.27 | 0.19 | 0.14 | 0.13 | 0.05 |
| Italy | 0.60 | 0.52 | 0.41 | 0.30 | 0.14 | 0.13 | 0.04 |
| Poland | 0.46 | 0.29 | 0.21 | 0.14 | 0.10 | 0.06 | 0.03 |
| Sweden | 0.61 | 0.55 | 0.43 | 0.30 | 0.22 | 0.15 | 0.06 |
| Slovenia | 0.54 | 0.36 | 0.33 | 0.26 | 0.16 | 0.08 | 0.09 |

Tab. A3: Healthy survival in selected European countries in 2017, by sex and age

Age is the average age at death within a corresponding age interval ($x + a_x$).

Source: Own estimations based on data from SHARE (*Börsch-Supan* 2020; *Börsch-Supan et al.* 2013) and *Eurostat* (2022)

| Country | Women | Men |
|--------------------|-------|------|
| Austria | 9.2 | 9.2 |
| Belgium | 9.5 | 10.3 |
| Czech Republic | 8.2 | 7.1 |
| Denmark | 9.2 | 9.1 |
| Estonia | 8.6 | 8.7 |
| France | 9.3 | 8.7 |
| Germany | 9.2 | 9.6 |
| Greece | 7.4 | 7.0 |
| Italy | 8.0 | 8.3 |
| Poland | 8.6 | 7.6 |
| Slovenia | 9.4 | 7.7 |
| Spain | 7.7 | 8.7 |
| Sweden | 8.4 | 9.3 |
| Mean | 8.7 | 8.6 |
| Standard Deviation | 0.7 | 0.9 |

| Tab. A4: | Standard deviation in healthy lifespan (Sh') conditional on being healthy |
|----------|---|
| | at age 50 by sex in selected European countries in 2017 |

The statistics are estimated at age 50 + $a_{50} \in [52.7 - 52.8]$, with the value of a_{50} differing between the countries. 50 + a_{50} is the average age at death within the age interval [50, 55).

Source: Own estimations based on data from SHARE (*Börsch-Supan* 2020; *Börsch-Supan et al.* 2013) and *Eurostat* (2022)

2 Step-by-step Instructions

2.1 A single-age life table

This part of the guide is a continuation of the guide from *Jagger, Van Oyen*, and *Robine* (2014) on pages 6-11 for estimating disability-free life expectancy. The guide from *Jagger et al.* (2014) is available free online at http://www.eurohex.eu/ehleis/pdf/Sullivan_guide_pre%20final_oct%202014.pdf. Table A5 reproduces columns [1],[6],[10] of the table on p.11 in the original source, and adds columns [15]-[19].

1. In a single-age life table, the exact age at which half of the persons who die in the age interval [x, x + 1) are dead is assumed to be x + 0.5. This age is given in column [15] and the number of persons alive at that age is given in column [16]. It is estimated by deducting from the number of persons alive at the exact age x, given in the same row in column [1], half of the difference between the number of persons alive at the exact age x, in the same row in column [1], and the number of persons alive at the exact age x + 1, given in the next row in column [1].

2. The number of healthy persons at the middle of the age interval (column [17]) is obtained by multiplying the number of persons alive at the middle of the age interval (column [16]) by the proportion of persons without disability at that age (one minus column [10]).

3. Health expectancy conditional on being healthy at the radix age (here age 0) is derived by dividing the total number of years lived without disability (sum of column [12] in the original table in *Jagger et al.* (2014)) by the number of healthy persons at age 0.5 (given in the first row in column [17]).

Next, we demonstrate the steps necessary to estimate the standard deviation of healthy years lived by persons who are healthy at age 0. Because no information is provided for the life-table statistics for ages 6-73 in the original table in *Jagger et al.* (2014), we cannot provide the value of this statistic.

4. The number of persons who cease to be in full health between ages x + 0.5 and x + 1.5 is derived for each row in column [18] as the difference between the number of healthy persons in the middle of the age interval in that row (at age x + 0.5) and the number of healthy persons in the middle of the age interval in the next row (at age x + 1.5), both in column [17].

5. To calculate the average age at death between ages x + 0.5 and x + 1.5, which is also assumed to be the average age at which an individual ceases to be healthy, we first determine the number of deaths that occurred at each age x, as indicated in column [19]. This is achieved by subtracting the value in each row of column [2] from the value in the same column in the subsequent row. Next, we calculate the average age at death between ages x + 0.5 and x + 1.5 in column [20]. This computation involves multiplying the value in a given row of column [15] by the value in the corresponding row of column [19]. Then, we add the value in the next row of column [15] multiplied by the value in the next row of column [15]. Finally, we divide the sum of these values by the sum of the values in column [15] for the given row and the next row.

6. To estimate the variance in the healthy years lived, we follow these steps: First, we calculate the squared difference between the age in column [19] and the health expectancy at age 50 (in this example: $e'_{50} = 66.69$). Next, for each row, we weight this squared difference by the number of individuals who cease to be in full health within this age interval, as provided in column [18]. The result of this calculation is recorded in column [20]. To obtain the variance in the healthy years lived by persons who are healthy at the radix age, we aggregate all the values in column [20] and then divide the sum by the number of healthy persons at age x + 0.5 (the value found in the first row of column [17]). Finally, the standard deviation of the healthy years lived by persons who are healthy at age 0 can be found by taking the square root of the calculated variance.

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| Squared difference | [21]** | $(x - e'_0)^2 d'_{X + 0.5}$ | 21974915.4 | 115784.9 | 65640.6 | 66457.6 | ı | | 544518.0 | 103950.8 | 155615.9 | 209116.2 | 264376.8 | 319171.9 | 355497.6 | 365231.1 | 346360.0 | 449929.3 | | | |
|--|--------|-----------------------------|------------|----------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|--|
| Average age at death in $[x + 0.5, x + 1.5)$ | [20] | z | 0.3 | 1.8 | 2.9 | 4.1 | ı | · | 75.0 | 76.1 | 77.0 | 78.0 | 79.0 | 80.0 | 81.0 | 82.0 | 82.9 | 84.1 | ı | | |
| Number of deaths at age <i>x</i> | [19] | d_{X} | 360.6 | 38.2 | 19.7 | 14.2 | 21.4 | | 1702.7 | 1824.8 | 2335.6 | 2768.1 | 2961.0 | 3155.5 | 3175.6 | 2942.7 | 2559.2 | 2048.6 | 3164.7 | | |
| ceasing to be healthy in [x + 0.5, x + 1.5] | [18] | d' _X + 0.5 | 4981.2 | 27.5 | 16.1 | 17.0 | 7460.9 | | 7852.4 | 1183.6 | 1452.0 | 1629.9 | 1740.1 | 1801.2 | 1740.7 | 1565.3 | 1310.9 | 1483.2 | · | 1 | |
| of persons healthy at x + 0.5 | [17] | $\ell'_{X} + 0.5$ | 99819.7 | 94838.5 | 94811.0 | 94794.8 | 94777.9 | | 52162.8 | 44310.3 | 43126.7 | 41674.7 | 40044.7 | 38304.6 | 36503.4 | 34762.7 | 33197.4 | 31886.5 | 30403.3 | | |
| Number of surviving to $x + 0.5$ | [16] | $\ell_{X} + 0.5$ | 99819.7 | 99620.3 | 99591.4 | 99574.4 | 99556.6 | | 79637.8 | 77874.0 | 75793.8 | 73241.9 | 70377.4 | 67319.1 | 64153.5 | 61094.4 | 58343.4 | 56039.5 | 53432.9 | | |
| Age when half dead in <i>x</i> | [15]* | x + 0.5 | 0.1 | 1.5 | 2.5 | 3.5 | 4.5 | 5.5 | 74.5 | 75.5 | 76.5 | 77.5 | 78.5 | 79.5 | 80.5 | 81.5 | 82.5 | 83.5 | 84.5 | | |
| Proportion with disability | [10] | π_X | 0.000 | 0.048 | 0.048 | 0.048 | 0.048 | 0:030 | 0.345 | 0.431 | 0.431 | 0.431 | 0.431 | 0.431 | 0.431 | 0.431 | 0.431 | 0.431 | 0.431 | 0.513 | |
| Number of persons Surviving to age <i>x</i> | [9] | f_x | 100000.0 | 99639.4 | 99601.2 | 99581.5 | 99567.3 | 99545.9 | 80489.1 | 78786.4 | 76961.6 | 74626.0 | 71857.9 | 68896.9 | 65741.4 | 62565.7 | 59623.1 | 57063.8 | 55015.2 | 51850.5 | |
| Age | [1] | × | 0 | - | 2 | c | 4 | ß | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85+ | |

a0 = 0.14 comes from the life table for women in Belgium in 2004 from the Human Mortality Database (2022). Source: Own estimations, numbers in columns [1],[6] and [10] and notations as in Table 1.5 in Jagger et al. (2014) $e'_{0} = 66.69.$ **

2.2 Abridged life table

This part of the guide is a continuation of the guide of *Jagger et al.* (2014) on pages 16-20 for estimating disability-free life expectancy. Table A6 reproduces selected columns from the table on p. 19 in the original source. In our instructions, we create additional columns in the table, and so the first column we add is [15]. For this hands-on example, we add information on $_{n}a_{x}$ from the abridged [5x1] life table for women in Belgium in 2004 from *Human Mortality Database* (2022) to the original life table in *Jagger et al.* (2014).

1. Age $x + {}_{n}a_{x}$, which is the age where the number of survivors matches the average number of individuals alive in the age interval [x, x + n), can be found in column [15]. Column [15] is the sum of columns [1] and [1a].

2. We calculate the number of deaths that occur in each age interval by subtracting from persons alive at the beginning of a given age interval the number of persons alive at the beginning of the next age interval. The value in column [16] for each consecutive row is obtained by subtracting the value in column [6] of the current row from the value in column[16] of the next row.

3. In column [17] we give the number of deaths in the first sub-interval $[x, x + na_x)$. It is derived by multiplying the number of deaths (in column [16]) by one minus the value in column [1a] and dividing by the length of the entire age interval, namely, *n*.

4. The number of persons alive at age $x + {}_{n}a_{x}$ in column [18] is estimated by subtracting the number of deaths that occur between ages x and $x + {}_{n}a_{x}$ in column [17] from the number of persons alive at age x in column [6].

5. The number of healthy individuals at age $x + {}_{n}a_{x}$ in column [19] is estimated by multiplying the number of persons alive at age $x + {}_{n}a_{x}$ in column [18] by the proportion of healthy individuals in the corresponding age group (1 – column [10]).

6. To estimate health expectancy conditional on being healthy at each age, first derive the total number of years lived in full health starting from age x, following the guidelines set out on p. 19 of *Jagger et al.* (2014). Unlike *Jagger et al.* (2014), who assumed $_{n}a_{x} = 2.5$ for all age intervals, we propose taking the values from the abridged [5x1] life table for women in Belgium in 2004 from the *Human Mortality Database* (2022). For the open age interval, 85+, we take the values from p. 20 of *Jagger et al.* (2014). The total number of disability-free years starting from age x is given in column [20]. Health expectancy conditional on being healthy at age 50 in column [20] by the number of people who are healthy at age 50, given in the first row in column [19].

In the next steps, we derive inequality in healthy lifespans conditional on being healthy at the threshold age.

7. The number of persons who cease to be healthy in each age interval between $x + na_x$ and $x + n + na_x$ is derived in column [22] by subtracting from the average number of healthy persons in a given row in column [19] the average number of healthy persons in the next row in the same column [19].

8. The average age at which a person dies between ages $x + {}_{n}a_{x}$ and $x + n + {}_{n}a_{x} + n$, in column [23], is assumed to be the average age at which an

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| [24] | sqrt ⁺⁺ | 1757278.8 | 1884069.7 | 652677.1 | 472362.8 | 15597.6 | 81164.1 | ' | T |
|------|-----------------------|-----------|-----------|-----------|-----------|----------|----------|----------|----------|
| [23] | z [†] | 55.4 | 60.6 | 65.6 | 70.7 | 76.0 | 80.3 | ' | ' |
| [22] | d' | 3733.7 | 6948.3 | 4923.0 | 11717.0 | 13067.2 | 7940.8 | ' | 1 |
| [21] | e'x | 27.1 | 23.1 | 20.6 | 16.8 | 14.3 | 12.1 | 8.8 | ' |
| [20] | $\sum L'_{X}$ | 2252639.6 | 1837061.6 | 1496007.3 | 1133669.5 | 796692.8 | 519181.9 | 307959.1 | 135972.9 |
| [19] | $l'_{X + na_X}^{***}$ | 83215.5 | 79481.7 | 72533.4 | 67610.4 | 55893.4 | 42826.2 | 34885.3 | 1 |
| [18] | $l_{x + na_{x}}$ | 99184.1 | 97265.7 | 94691.1 | 90996.5 | 85333.5 | 75265.7 | 61309.9 | 1 |
| [17] | $d_{X,1}$ | 815.9 | 983.5 | 1491.8 | 2116.8 | 3256.7 | 6213.7 | 6719.9 | ' |
| [16] | $^{n}d_{x}$ | 1750.8 | 2066.2 | 3069.6 | 4523.1 | 7110.8 | 13449.6 | 14297.6 | ı |
| [15] | $x + na_X$ | 52.7 | 57.6 | 62.6 | 67.7 | 72.7 | 7.7.7 | 82.7 | 91.2 |
| [10] | π_{X} | 0.161 | 0.298 | 0.234 | 0.257 | 0.345 | 0.431 | 0.431 | 0.513 |
| [9] | l _{x**} | 100000.0 | 98249.2 | 96183.0 | 93113.3 | 88590.2 | 81479.4 | 68029.8 | 53732.2 |
| [1a] | nax* | 2.7 | 2.6 | 2.6 | 2.7 | 2.7 | 2.7 | 2.6 | 6.2 |
| E | × | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |

 l_x is reestimated from the original l_x in *Jagger et al.* (2014) in Tables on p.18-20, as conditional to survive to age 50, i.e. the original values of l_x in column [5] are divided by $l_{50} = 96731.9$. nax comes from the abridged [5x1] life table for women in Belgium in 2004 from *Human Mortality Database* (2022). ** *

As original value of $l'_{57.6} > l'_{52.7}$, $l'_{57.6}$ was estimated as the average of $l'_{52.7}$ and $l'_{62.6}$. ***

consult main text for explanation +

⁺⁺ sqrt = $(x + a_z - e'_{50})^2 d'$

Source: Own estimations, based on Tables on p.18-20 in Jagger et al. (2014)

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individual ceases to be healthy. This computation involves multiplying the value in a given row of column [15] by the value in the corresponding row of column [17]. Then, we add the value in the next row of column [15] multiplied by the value in the next row of column [17]. Finally, we divide this sum by the sum of the values in column [17] for the given row and the next row.

9. To estimate the variance in the healthy years lived, we follow these steps: First, we calculate the squared difference between the age in column [19] and the health expectancy at age 50 (given as $e'_{50} = 27.07$ in this example). Next, we weight this squared difference by the number of individuals who cease to be in full health within this age interval, as provided in a given row in column [22]. The result of this calculation is recorded in column [24]. To obtain the variance in the healthy years lived by persons who are healthy at the radix age, we sum up all the values in column [24] and then divide the sum by the number of healthy persons at age 50 (approximated by the value found in the first row of column [19]). Finally, the standard deviation of the healthy years lived by persons who are healthy at age 50 can be found by taking the square root of the calculated variance. In this example, it equals 7.6 years.

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