**Supplementary materials**

**Methodological challenges in harmonization of the variables used as indicators of social capital in epidemiological studies of ageing – results of the ATHLOS project**

**Supplementary table 1.** Questions and response categories in original surveys and new harmonized variable of general trust (*trust*)

|  |  |  |  |
| --- | --- | --- | --- |
| **Name of the study** | **Questions** | **Response categories** | **Categories of the harmonized variable** |
| **COURAGE/SAGE** | Q1: Generally speaking, would you say that most people can be trusted or that you can’t be too careful in dealing with people?  Q2: Generally speaking, would you say that you can trust them…’: ‘people in your neighbourhood’, ‘people whom you work with’, ‘strangers’ | Q1: 2 response options:  Can be trusted/ can’t be too careful (can’t be trusted – (in case of SAGE))  Q2: 5 categories:  To a very great extent / Great extent/ Neither great nor small extent/ To a small extent/ To a very small extent | No/Yes (based on Q1) |
| **ELSA** | Introduction:  How do you feel about your local area, that is everywhere within a 20 minute walk or about a mile of your home? The closer your tick is to a statement the more strongly you agree with it. | W1 & W7: 1 = Most people in this area can be trusted  2 … 6  7 = Most people in this area can't be trusted  W3: Strongly agree/ Somewhat agree/ Agree a little/ Neither agree nor disagree/Disagree a little/ Somewhat disagree/ Strongly disagree | No/Yes (Categories below the middle value of the scale i.e. from 1 to 3 ) |
| **HAPIEE** | Q1. Is there trust among people in your area of residence?;  Q2. Do you think that you can trust people? | 1=Always, 2=Mostly,  3=Sometime, 4=Rarely, 5=Never | No/Yes (based on Q2: Categories 1, 2 and 3) |
| **HEALTH 2000** | It is better not to trust anyone | 1=agree, 2=mostly agree, 3=mostly disagree, 4=disagree | No/Yes (Categories 3,4) |
| **JSTAR** | Do you think you can trust most of the people who live near you? | 1=Yes, 2=No, 3=Don’t know | No/Yes |
| **SHARE** | I would now like to ask a question about how you view other people. Generally speaking, would you say that most people can be trusted or that you can't be too careful in dealing with people? Not looking at card 35 anymore, please tell me on a scale from 0 to 10, where 0 means you can't be too careful and 10 means that most people can be trusted .  Most people can be trusted or that you can't be too careful in dealing with people? | 0=you can't be too careful,  ….  10=most people can be trusted | No/Yes (Categories above the middle value of the scale i.e. from 6 to 10 ) |
| **LASI** | Can people in neighborhood be trusted?` | 1=strongly agree, 2=agree, 3=disagree, 4=strongly disagree | No/Yes (Categories 3,4) |

**Supplementary table 2** General trust in studies. Percent of respondents who reported that most people can be trusted based on harmonized variable *trust.*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study | Population | Year of interview | | | | | | | | | | | | | | | | | | | | | | | | |
| 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| 10/66 | Cuba |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  | x |  |  |  |  |  |  |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  |  |  |  |  |  |
|  | Urban China |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  | x |  |  |  |  |  |  |
|  | Rural China |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  | x |  |  |  |  |  |  |
|  | Dominican Rep. |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  | x | |  |  |  |  |  |
|  | Venezuela |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x | |  |  |  |  |  |
|  | Urban Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x | |  |  |  |  |  |
|  | Rural Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |
|  | Urban Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x | |  |  |  |  |  |
|  | Rural Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  | x | |  |  |  |  |  |
|  | Puerto Rico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | x |  |  |  | x | |  |  |
| ALSA |  |  |  | x | x | x | x |  | x |  |  | x |  |  | x |  | x | x | | x |  |  |  | x | x |  |
| ATTICA |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  | x |  |  |  |  | x | |  |  |  |
| CHARLS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | | x | x\* | x\* |
| COURAGE | Spain |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25,4 | |  | 30,8 | |
|  | Poland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 17,9 | |  | 29,9 | |
|  | Finland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25,7 | |  |  |  |
| ELSA |  |  |  |  |  |  |  |  |  |  |  |  | 73,0 |  | x |  | 75,3 |  | x |  | x |  | x |  | 73,1 | |
| ENRICA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  | x |
| HAPIEE | Poland |  |  |  |  |  |  |  |  |  |  |  |  | 82,5 | |  |  | x |  |  |  |  |  |  |  |  |
|  | Czech Rep. |  |  |  |  |  |  |  |  |  |  |  |  | 76,9 | |  |  | x |  |  |  |  |  |  |  |  |
|  | Lithuania |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 81,4 | |  |  |  |  |  |  |  |  |
| HEALTH 2000/2011 |  |  |  |  |  |  |  |  |  |  | 69,1 | |  |  |  |  |  |  |  |  |  | 81,4 | |  |  |  |
| HRS | AHEAD |  |  | x |  | x |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | CODA |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | WB |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | EBB |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | MBB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x\* |  |
| JSTAR | AKSST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 79,9 |  | x |  | x |  |  |  |  |
|  | TN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 81,9 |  | x |  |  |  |  |
|  | CTH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 83,8 |  |  |  |  |
| KLOSA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x\* |  |
| LASI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 90.1 | |  |  |  |  |
| MHAS |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  |  |  |  |  |  |  |  | x |  |  | x\* |
| SAGE | South Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 21,2 |  |  |  |  |  |  |  | x\* |
|  | Ghana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 61,7 | |  |  |  |  |  |  | x\* |
|  | China |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 88,9 |  |  |  |  |  |  |  | x\* |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 55,3 |  |  |  |  |  |  |  | x\* |
|  | Russia |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 29,8 | |  |  |  |  |  |  | x\* |
|  | Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 47,5 | |  |  |  |  | x\* |
| SHARE |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | 40,4 |  | x | | 39,4 | |  | 45,4 |  | x |
| TILDA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x\* | |

x – harmonization process could not be done;  
\* - datasets not available yet

**Supplementary table 3a.** Questions and response categories in original survey and new harmonized variable of political participation (*pol\_act* and *pol\_vot*)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name of the study** | **Questions** | **Response categories** | **Time frame** | **Wave of the study1** | **Categories of the harmonized variable** |
| political involvement (*pol\_act*) | | | | |
| COURAGE | How often in the last 12 months …  Q1. have you attended any public meeting in which there was discussion of local or school affairs?  Q2. have you met personally with someone you consider to be a community leader? | Never/once or twice per year/once or twice per month/once or twice per week/daily | The last 12 months | All waves | No/Yes (at least once per month involved in public meeting or meet community leader) |
| SAGE | How often in the last 12 months …  Q1. have you attended any public meeting in which there was discussion of local or school affairs?  Q2. have you met personally with someone you consider to be a community leader? | Never/once or twice per year/once or twice per month/once or twice per week/daily | The last 12 months | All countries, W1 | No/Yes (at least once per month involved in public meeting or meet community leader) |
| ELSA | Are you a member of any of these organizations: Political party, trade union or environmental groups? | No/Yes | At the moment of the interview | All waves | No/Yes (Being a member) |
| JSTAR | Q1:In the past month, did you engage in any non-work activities with someone other than your family and friends? (If Yes)  Q2: What kinds of activities did you engage in? Please select all that apply. | Q1: No/Yes/Don’t know  If yes  Q2:  1. Community activity (including senior club events and festivals)/ Helping neighbors (in a personal capacity)/ Volunteer or charitable activity/ Religious activity/ **Political activity**/ Hobbies, travel, leisure activities, etc./ Study, learning, etc./ Sports or other exercise activities (including gateball [like croquet], jogging, etc.)/ Other (specify) | The last month | 5 cities- W1, W2, W3  2 cities- W1, W2  2 cities- W1, | No/Yes (in the last month respondent was engaged in political activity ) |
| KLOSA | Q1: Participating to the political party/the NGOs/the interest group?  (If yes)  Q2: How often participates to the political party/the NGOs/the interest group | Q1: No/Yes  Q2: Almost every day (more than 4 times per week)/Once a week/2-3 times a week/ Once a month/Twice a month (every two weeks)/Once or twice a year/Three or four times a year/ Five or six times a year/Almost never a year/Almost never | W4: The last 12 months | W1-W4 | No/Yes (participating to the political party/NGOs/the interest group at least once a month) |
| SHARE | W1-W2  Q1: Have you done any of these activities in the last month?  Q2: How often in the last four weeks have you taken part in a political or community-related organization?  W4,W5:  Q1: Which of the activities listed on this card - if any - have you done in the past twelve months?  Q2: How often in the past twelve months have you taken part in a political or community-related organization? | W1, W2:  Q1: Done voluntary or charity work/Cared for a sick or disabled adult/Provided help to family, friends or neighbors/Attended an educational or training course/Gone to a sport, social or other kind of club/Taken part in a religious organization (church, synagogue, mosque  etc.)/Taken part in a political or community-related organization/ None of these  Q2:Almost daily/Almost every week/ Less often  W4,W5: Q1: Done voluntary or charity work/Attended an educational or training course/Gone to a sport, social or other kind of club/Taken part in activities of a religious organization (church, synagogue, mosque etc.)/**Taken part in a political or community-related organization/**Read books, magazines or newspapers/Did word or number games such as crossword puzzles or Sudoku/Played cards or games such as chess/None of these  Q2: Almost daily/Almost every week/Almost every month/Less often | W1, W2:  Last month  W4,W5, W6:  Past twelve months | W1, W2, W4,W5 | No/Yes (in the last month respondent was engaged in political activity) |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| voting (*pol\_vot*) | | | | | |
|  | **Questions** | **Response categories** | **Time frame** | **Wave of the study1** | **Categories of the harmonized variable (***Yes* means*Voting in the last political election*) |
| COURAGE | Did you vote in the last [country] national election in [month/year]? | Yes/No/Not eligible to vote | The last election | All waves | Yes/No |
| ELSA | Which of these statements apply to you: "I voted in the last general election."? | Yes/No | The last election | W1, W3 | Yes/No |
| SAGE | Did you vote in the last state/national/presidential election? | Yes/No | The last election | W1 in all countries | Yes/No |
| LASI | Did you vote in the last panchayat/municipal/assembly/parliament elections? | Yes/No | The last election | W1 | Yes/No |
| TILDA | Did you vote in the last general election? | Yes/No | The last election | W1 | Yes/No |

Note 1- Waves available for the harmonization were listed in the previous paper (Sanchez-Niubo et al., 2019). All waves means all available for the ATHLOS project.

**Supplementary table 3b.** Studies in which particular aspects of political participation were available.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **COURAGE** | **ELSA** | **JSTAR** | **KLOSA** | **SAGE** | **SHARE** | **TILDA** |
| Political participation –original variables | | | | | | | | |
| Active participation | **+** | **-** | **+** | **+** | **+** | **+** | **-** |
| Voting | **+** | **+** | **-** | **-** | **+** | **-** | **+** |
| Membership of any political organization | **-** | **+** | **-** | **-** | **-** | **-** | **-** |
| Being active during the last month (Yes/No) | - | - | + | - | - | - | - |
| Frequency of participation during the last month | - | - | - | - | - | W1/W2 | - |
| Frequency of participation during the last 12 month with at least five categorical response scale | + | - | - | + | + | W4/W5 | - |
| Political participation –possible harmonized variables | | | | | | | | |
| **Voting (yes/no)1** | **+** | **+** | **-** | **-** | **+** | **-** | **+** |
| **Politically involved (yes/no)1** | + | + | + | + | + | + | - |
| **Any political activity (only voting/politically involved/no)** | + | + | - | - | + | - | - |
| **Any political activity (yes/no)** | + | + | + | + | + | + | + |
| **Active political participation (being active at least once a month, less often)\*** | + | - | + | + | + | + | - |
| **Active political participation (five point response scale)** | + | - | - | + | + | W4/W5 | - |

\*under the assumption that information from the last month reflected participation during the typical month; 1 – variable now harmonized

**Supplementary table 4a**. Percent of respondents who reported political participation (*pol\_act*) in studies included in the ATHLOS cohort.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Population** | **Year of interview** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **1991** | **1992** | **1993** | **1994** | **1995** | **1996** | **1997** | **1998** | **1999** | **2000** | **2001** | **2002** | **2003** | **2004** | **2005** | **2006** | **2007** | **2008** | **2009** | **2010** | **2011** | **2012** | **2013** | **2014** | | **2015** |
| **10/66** | **Cuba** |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  |  |  | **x** |  |  |  |  |  | |  |
|  | **India** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  | **x** |  |  |  |  |  |  | |  |
|  | **Urban China** |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  |  |  | **x** |  |  |  |  |  | |  |
|  | **Rural China** |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  |  | **x** |  |  |  |  |  | |  |
|  | **Dominican Rep.** |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  |  | **x** | |  |  |  |  | |  |
|  | **Venezuela** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  | **x** | |  |  |  |  | |  |
|  | **Urban Peru** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  | **x** | |  |  |  |  | |  |
|  | **Rural Peru** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  | **x** |  |  |  |  |  | |  |
|  | **Urban Mexico** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  | **x** | |  |  |  |  | |  |
|  | **Rural Mexico** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  | **x** | |  |  |  |  | |  |
|  | **Puerto Rico** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | **x** |  |  |  | **x** | |  | |  |
| **ALSA** |  |  |  | **x** | **x** | **x** | **x** |  | **x** |  |  | **x** |  |  | **x** |  | **x** | **x** | | **x** |  |  |  | **x** | **x** | |  |
| **ATTICA** |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  |  | **x** |  |  |  |  | **x** | |  |  | |  |
| **CHARLS** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | | **x** | **x\*** | | **x\*** |
| **COURAGE** | **Spain** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **9.4** | |  | **9.9** | | |
|  | **Poland** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **10.5** | |  |  | | **13.7** |
|  | **Finland** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **25.8** | |  |  | |  |
| **ELSA** |  |  |  |  |  |  |  |  |  |  |  |  | **14.9** |  | **15.3** |  | **14.5** |  | **14.3** |  | **13.7** |  | **13.8** |  | **13.0** | | |
| **ENRICA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  | **x** |  |  | **x** | |
| **HAPIEE** | **Poland** |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  | **x** |  |  |  |  |  |  |  |  | |
|  | **Czech Rep.** |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  | **x** |  |  |  |  |  |  |  |  | |
|  | **Lithuania** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  |  |  |  |  |  |  | |
| **HEALTH 2000/2011** |  |  |  |  |  |  |  |  |  |  | **x** | |  |  |  |  |  |  |  |  |  | **x** | |  |  |  | |
| **HRS** | **AHEAD** |  |  | **x** |  | **x** |  |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x\*** |  | |
|  | **CODA** |  |  |  |  |  |  |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x\*** |  | |
|  | **WB** |  |  |  |  |  |  |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x\*** |  | |
|  | **EBB** |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x\*** |  | |
|  | **MBB** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  | **x** |  | **x\*** |  | |
| **JSTAR** | **AKSST** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **4.5** |  | **2.4** |  | **2.1** |  |  |  |  | |
|  | **TN** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **4.2** |  | **0.7** |  |  |  |  | |
|  | **CTH** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1.5** |  |  |  |  | |
| **KLOSA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **0.5** |  | **0.4** |  | **0.2** |  | **0.1** |  | **x\*** |  | |
| **MHAS** |  |  |  |  |  |  |  |  |  |  |  | **x** |  | **x** |  |  |  |  |  |  |  |  | **x** |  |  | **x\*** | |
| **SAGE** | **South Africa** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  |  |  |  |  | **x\*** | | |
|  | **Ghana** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  |  |  |  | **x\*** | | |
|  | **China** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  |  |  |  |  | **x\*** | | |
|  | **India** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  |  |  |  |  | **x\*** | | |
|  | **Russia** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  |  |  |  | **x\*** | | |
|  | **Mexico** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  |  | **x\*** | | |
| **SHARE** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **1.8** |  | **1.8** |  | **x** | | **3.6** | |  | **4.5** |  | **x\*** | |
| **TILDA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  | **x** |  | **x\*** | | |

**Supplementary table 4b**. Percent of respondents who reported political activity in studies included in the ATHLOS cohort.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Study** | **Population** | **Year of interview** | | | | | | | | | | | | | | | | | | | | | | | | |
| **1991** | **1992** | **1993** | **1994** | **1995** | **1996** | **1997** | **1998** | **1999** | **2000** | **2001** | **2002** | **2003** | **2004** | **2005** | **2006** | **2007** | **2008** | **2009** | **2010** | **2011** | **2012** | **2013** | **2014** | **2015** |
| **10/66** | **Cuba** |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  |  |  | **x** |  |  |  |  |  |  |
|  | **India** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  | **x** |  |  |  |  |  |  |  |
|  | **Urban China** |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  |  |  | **x** |  |  |  |  |  |  |
|  | **Rural China** |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  |  | **x** |  |  |  |  |  |  |
|  | **Dominican Rep.** |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  |  | **x** | |  |  |  |  |  |
|  | **Venezuela** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  | **x** | |  |  |  |  |  |
|  | **Urban Peru** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  | **x** | |  |  |  |  |  |
|  | **Rural Peru** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  | **x** |  |  |  |  |  |  |
|  | **Urban Mexico** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  | **x** | |  |  |  |  |  |
|  | **Rural Mexico** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  | **x** | |  |  |  |  |  |
|  | **Puerto Rico** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | **x** |  |  |  | **x** | |  |  |
| **ALSA** |  |  |  | **x** | **x** | **x** | **x** |  | **x** |  |  | **x** |  |  | **x** |  | **x** | **x** | | **x** |  |  |  | **x** | **x** |  |
| **ATTICA** |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  |  | **x** |  |  |  |  | **x** | |  |  |  |
| **CHARLS** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | | **x** | **x\*** | **x\*** |
| **COURAGE** | **Spain** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **82.5** | |  | **84.4** | |
|  | **Poland** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **75.7** | |  | **70.6** | |
|  | **Finland** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **87.6** | |  |  |  |
| **ELSA** |  |  |  |  |  |  |  |  |  |  |  |  | **82.6** |  | **x** |  | **84.7** |  | **x** |  | **x** |  | **x** |  | **x** | |
| **ENRICA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  | **x** |  |  | **x** |
| **HAPIEE** | **Poland** |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  | **x** |  |  |  |  |  |  |  |  |
|  | **Czech Rep.** |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  | **x** |  |  |  |  |  |  |  |  |
|  | **Lithuania** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** | |  |  |  |  |  |  |  |  |
| **HEALTH 2000/2011** |  |  |  |  |  |  |  |  |  |  | **x** | |  |  |  |  |  |  |  |  |  | **x** | |  |  |  |
| **HRS** | **AHEAD** |  |  | **x** |  | **x** |  |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x\*** |  |
|  | **CODA** |  |  |  |  |  |  |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x\*** |  |
|  | **WB** |  |  |  |  |  |  |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x\*** |  |
|  | **EBB** |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  | **x** |  | **x** |  | **x** |  | **x** |  | **x\*** |  |
|  | **MBB** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  | **x** |  | **x\*** |  |
| **JSTAR** | **AKSST** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  | **x** |  | **x** |  |  |  |  |
|  | **TN** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  | **x** |  |  |  |  |
|  | **CTH** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  |  |  |  |
| **KLOSA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  | **x** |  | **x** |  | **x** |  | **x\*** |  |
| **LASI** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **96.2** | |  |  |  |  |
| **MHAS** |  |  |  |  |  |  |  |  |  |  |  | **x** |  | **x** |  |  |  |  |  |  |  |  | **x** |  |  | **x\*** |
| **SAGE** | **South Africa** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **85.0** |  |  |  |  |  |  |  | **x\*** |
|  | **Ghana** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **90.6** | |  |  |  |  |  |  | **x\*** |
|  | **China** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **65.5** |  |  |  |  |  |  |  | **x\*** |
|  | **India** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **91.4** |  |  |  |  |  |  |  | **x\*** |
|  | **Russia** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **80.5** | |  |  |  |  |  |  | **x\*** |
|  | **Mexico** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **77.1** | |  |  |  |  | **x\*** |
| **SHARE** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **x** |  | **x** |  | **x** | | **x** | |  | **x** |  | **x** |
| **TILDA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **92.0** |  | **x** |  | **x\*** | |

x – harmonization process could not be done;  
\* - datasets not available yet

**Supplementary table 5a.** Questions and response categories in original surveys and new harmonized variable of religious participation (*relig*)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of the study** | **Questions** | **Response categories** | **Time frame** | **Waves1** | **Response categories of the harmonized variable** | **Interpretation of the answer *yes* in the harmonized variable** |
| **10/66** | Do you attend religious meetings? | No/Yes, regularly/Yes, occasionally |  | W1 for ll countries | No/Yes | Regular participation in religious meeting. |
| **ALSA** | INTRODUCTION: I am going to ask you some questions about a number of activities in which you may participate, some of which I have mentioned before. I now want you to tell me how often you participate in each activity in a typical 3 month period. If you like, you could think about the last 3 months.  How often have you attended religious services or meetings? | Never/ About once a month/ About once a fortnight/ Once a week or more | typical 3 month period. If you like, you could think about the last 3 months | W1, W3, W6, W7, W9, W11, W12 | No/Yes | Participation in religious meeting at least once a month |
| **COURAGE** | How often in the last 12 months have you attended religious services (not including weddings and funerals)? | Never/once or twice per year/once or twice per month/once or twice per week/daily | The last 12 months | All waves | No/Yes | Participation in religious meeting at least once a month |
| **ELSA** | Q1: Are you a member of any of these organizations, clubs or societies?  There are also information previously not found for  **W5, W7:** About how often have you attended religious services during the past year?   |  |  | | --- | --- | | **Question text:** | About how often have you  attended religious services  during the past year? | | **Answer type:** | Enumerated | | **Answer choices:** | 1 More than once a week 2 Once a week 2 Two or three times a month 4 One or more times a year 5 Not at all 6 Don't know | | Q1: Tick all that apply:  Political party, trade union or environmental groups/ Tenants groups, resident groups, Neighborhood Watch/ Church or other religious groups/  Charitable associations/ Education, arts or music groups or evening classes/Go to  Social clubs/Sports clubs, gyms, exercise classes/Any other organizations, clubs or societies  No, I am not a member of any organizations, clubs or societies  Each coded as  No/Yes |  | All waves  I am not sure about the wave 6 | No/Yes |  |
| HEALTH2000 | In the questionnaire 1, there is a question about different activities '20. How often do you practice some the following on an average?'. The number 4 is "Church or other religious activities" | Less frequently or never/ once or a few times a year/ once or twice a month/ once or twice a week/ every day or during most days |  | W1, W2 | No/Yes | Participation in religious meeting at least once a month |
| JSTAR | Q1:In the past month, did you engage in any non-work activities with someone other than your family and friends? (If Yes)  Q2: What kinds of activities did you engage in? Please select all that apply. | Q1: No/Yes/Don’t know  If yes  Q2:Community activity /Helping neighbors/Volunteer or charitable activity**/Religious activity**/Political activity/Hobbies, travel, leisure activities, etc./Study, learning, etc./ Sports or other exercise activities/Other | The last month | 5 cities- W1, W2, W3  2 cities- W1, W2  2 cities- W1, | No/Yes | In the last month respondent was engaged in religious activity |
| KLOSA | Q1: Participating to the religious meeting?  (If yes)  Q2: How often participates to the to the religious meetings? | Q1: No/Yes  Q2: 10 response categories: Almost every day (more than 4 times per week)/Once a week/2-3 times a week/ Once a month/Twice a month (every two weeks)/Once or twice a year/Three or four times a year/ Five or six times a year/Almost never a year/Almost never |  | W2, W3 | No/Yes | Participating to the religious meetings at least once or twice a year  (Participation in religious meeting at least once a month also possible) |
| MHAS | Q1: Do you attend religious services?  Q2: How frequently do you participate in events organized by your church? | Q1: Yes/No  Q2: Never/ Once in a while/ Once or more per week |  | W2, W3 | No/Yes | Participating in events organized by church at least once a week |
| LASI | Now some questions about your social activities. How often, if at all, do you do any of the following activities?   * Attending religious functions /events (outside home) | 6 response categories: Twice a month or more/about once a month/every few months/ about once or twice a year/less than once a year/never |  | W1 | No/Yes | Participation in religious meeting at least once a month |
| SAGE | How often in the last 12 months have you attended religious services (not including weddings and funerals)? | Never/ Once or twice per year/ Once or twice per month/ Once or twice per week/ Daily | The last 12 months | W1 | No/Yes | Participation in religious meeting at least once a month |
| SHARE | W1-W2  Q1: Have you done any of these activities in the last month?  Q2: How often in the last four weeks have you taken part in a religious organization (church, synagogue, mosque etc.)?  W4, W5:  Q1: Which of the activities listed on this card - if any - have you done in the past twelve months?  Q2: How often in the past twelve months have you taken part in the activities of a religious organization (church, synagogue, mosque etc.)? | W1, W2:  Q1: Done voluntary or charity work/Cared for a sick or disabled adult/Provided help to family, friends or neighbors/Attended an educational or training course/Gone to a sport, social or other kind of club/**Taken part in a religious organization (church, synagogue, mosque**  **etc.)/**Taken part in a political or community-related organization/None of these  Q2: Almost daily/Almost every week/Less often  W4,W5: Q1: Done voluntary or charity work/Attended an educational or training course/Gone to a sport, social or other kind of club/Taken part in activities of a religious organization (church, synagogue, mosque etc.)/Taken part in a political or community-related organization/Read books, magazines or newspapers/ Did word or number games such as crossword puzzles or Sudoku/Played cards or games such as chess/None of these  Q2: Almost daily/Almost every week/Almost every month/Less often | W1, W2:  Last month  W4,W5, W6:  Past twelve months | W1, W2, W4,W5 | No/Yes | Participation in religious meeting at least once a month |
| TILDA | About how often do you go to religious services? | Never or almost never/ Once or twice a year/ Every few months/ Once or twice a month/ Once a week/ More than once a week |  | W1 | No/Yes | Participation in religious services at least every few months(Participation in religious meeting at least once a month also possible) |

Note 1- Waves available for the harmonization were listed in the previous paper (Sanchez-Niubo et al., 2019). All waves means all available for the ATHLOS project.

**Supplementary table 5b.** Studies in which particular aspects of religious participation were available.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **10/66** | **ALSA** | **CHARLS** | **COURAGE** | **ELSA** | **HAPIEE** | **H2000/11** | **JSTAR** | **KLOSA** | **LASI** | **MHAS** | **SAGE** | **SHARE** | **TILDA** |
| Membership of church or other religious group | **-** | **-** | **-** | **-** | **+** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** | **-** |
| Participation in religious activities at least once a month\* |  | **+** | **-** | **+** | W5/W7 | **-** | **+** | **+** | **+** | **+** | **-** | **+** | **+** | **+** |
| Participation in religious activities at least once a week |  | **-** | **-** | **+** | W5/W7 | **-** | **+** | **-** | **+** | **-** | **+** | **+** | **+** | **+** |
| Participation in religious activities - 5 categorical responses | **-** | **?** | **-** | **+** | W5/W7 | **-** | **+** | **-** | **+** | **-** | **-** | **+** | **+** | **+** |

\*under the assumption that information from the last month reflected participation during the typical month

**Supplementary table 6.** Percent of respondents reported religious participation in each study included in the ATHLOS cohort.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study | Population | Year of interview | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | | 2015 |
| 10/66 | Cuba |  |  |  |  |  |  |  |  |  |  |  |  |  | 12.4 |  |  |  |  | x |  |  |  |  |  | |  |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 17.6 |  |  | x |  |  |  |  |  |  | |  |
|  | Urban China |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.2 |  |  |  |  | x |  |  |  |  |  | |  |
|  | Rural China |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.8 | |  |  |  | x |  |  |  |  |  | |  |
|  | Dominican Rep. |  |  |  |  |  |  |  |  |  |  |  |  |  | 40.6 | |  |  |  | x | |  |  |  |  | |  |
|  | Venezuela |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 37.4 | |  |  | x | |  |  |  |  | |  |
|  | Urban Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 57.2 | |  |  | x | |  |  |  |  | |  |
|  | Rural Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 40.1 | |  |  | x |  |  |  |  |  | |  |
|  | Urban Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 59.8 |  |  | x | |  |  |  |  | |  |
|  | Rural Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 52.0 | |  | x | |  |  |  |  | |  |
|  | Puerto Rico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | 51.9 |  |  |  | x | |  | |  |
| ALSA |  |  |  | 34.4 | x | 33.7 | x |  | x |  |  | 37.7 |  |  | 82.1 |  | x | 34.1 | | x | 33.1 |  |  | 39.5 | x | |  |
| ATTICA |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  | x |  |  |  |  | x | |  |  | |  |
| CHARLS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | | x | x\* | | x\* |
| COURAGE | Spain |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 29.6 | |  | 29.7 | | |
|  | Poland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 63.1 | |  |  | | 67.9 |
|  | Finland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 13.2 | |  |  | |  |
| ELSA |  |  |  |  |  |  |  |  |  |  |  |  | 20.8 |  | 22.4 |  | 20.5 |  | 20.1 |  | 19.8 |  | 19.4 |  | 19.6 | | |
| ENRICA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  | x | |
| HAPIEE | Poland |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |  |  | |
|  | Czech Rep. |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |  |  | |
|  | Lithuania |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  |  |  | |
| HEALTH 2000/2011 |  |  |  |  |  |  |  |  |  |  | 12.8 | |  |  |  |  |  |  |  |  |  | 11.2 | |  |  |  | |
| HRS | AHEAD |  |  | x |  | x |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  | |
|  | CODA |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  | |
|  | WB |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  | |
|  | EBB |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x\* |  | |
|  | MBB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x\* |  | |
| JSTAR | AKSST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.7 |  | 7.8 |  | 9.2 |  |  |  |  | |
|  | TN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4.7 |  | 6.6 |  |  |  |  | |
|  | CTH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5.1 |  |  |  |  | |
| KLOSA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 22.4 |  | 20.7 |  | 19.1 |  | 20.1 |  | x\* |  | |
| LASI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 45.4 | |  |  |  |  | |
| MHAS |  |  |  |  |  |  |  |  |  |  |  | x |  | 37.9 |  |  |  |  |  |  |  |  | 36.8 |  |  | x\* | |
| SAGE | South Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 78.2 |  |  |  |  |  |  | x\* | | |
|  | Ghana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3.2 | |  |  |  |  |  | x\* | | |
|  | China |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 81.4 |  |  |  |  |  |  | x\* | | |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25.4 |  |  |  |  |  |  | x\* | | |
|  | Russia |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 11.9 | |  |  |  |  |  | x\* | | |
|  | Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 46.1 | |  |  |  | x\* | | |
| SHARE |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7.9 |  | 5.6 |  | x | | x | |  | x |  | x\* | |
| TILDA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 77.7 |  | x |  | x\* | | |

x – harmonization process could not be done;  
\* - datasets not available yet

**Supplementary table 7 .** Question and response categories in original survey and possible new harmonized variable of attendance to senior clubs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of the study** | **Questions** | **Response categories** | **Time frame** | **Waves1** | **Response categories of the harmonized variable** | **Interpretation of the answer *yes* in the harmonized variable** |
| **ALSA** | **W1:**  Q1: Are you a member of any clubs or organizations such as church related groups, social or sporting groups?  INTRODUCTION: I am going to ask you some questions about a number of activities in which you may participate, some of which I have mentioned before. I now want you to tell me how often you participate in each activity in a typical 3 month period. If you like, you could think about the last 3 months.  Q2: How often have you participated in social activities at a center such as a club, a church, or a community center? (Bingo, senior citizens, RSL, a hotel, self-education courses)  **W3:** When we interviewed you 2 years ago, you indicated some clubs of which you were a member. We would like to check if you are still a member of these clubs. Are you still a member of:  Q1:Senior Citizens  Q2:Aged Pensioners  Q3:Retired Persons Groups  Q4:Over 50 clubs  Q5: Over 60 clubs | W1:  Q1: Yes/No  Q2:  Never/ About once a month/ About once a fortnight/ Once a week or more  W3:  Yes/No | W1: Typical 3 month period. If you like, you could think about the last 3 months  W3: About 2 years, since the date of the first interview | W1, W3 | W3: No/Yes | Member of senior club |
| **COURAGE** | How often in the last 12 months have you Attended senior clubs or organizations (day-care centres), self-help groups, universities of third age? | Never/once or twice per year/once or twice per month/once or twice per week/daily | The last 12 months | All waves | No/Yes | Participation in senior clubs at least once a month |
| **JSTAR** | Q1:In the past month, did you engage in any non-work activities with someone other than your family and friends? (If Yes)  Q2: What kinds of activities did you engage in? Please select all that apply. | Q1: No/Yes/Don’t know  If yes  Q2:  1. **Community activity (including senior club events and festivals)** 2. Helping neighbors (in a personal capacity) 3. Volunteer or charitable activity 4. Religious activity 5. Political activity 6. Hobbies, travel, leisure activities, etc. 7. Study, learning, etc. 8. Sports or other exercise activities (including gateball [like croquet], jogging, etc.) 9. Other (specify) | The last month | 5 cities- W1, W2, W3  2 cities- W1, W2  2 cities- W1, | - | To general question to be harmonized |

Note 1- Waves available for the harmonization were listed in the previous paper (Sanchez-Niubo et al., 2019). All waves means all available for the ATHLOS project.

**Supplementary table 8.** Percent of respondents participated in a senior club/organization in studies included in the ATHLOS cohort.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study | Population | Year of interview | | | | | | | | | | | | | | | | | | | | | | | | |
| 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| 10/66 | Cuba |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  | x |  |  |  |  |  |  |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  |  |  |  |  |  |
|  | Urban China |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  | x |  |  |  |  |  |  |
|  | Rural China |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  | x |  |  |  |  |  |  |
|  | Dominican Rep. |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  | x | |  |  |  |  |  |
|  | Venezuela |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x | |  |  |  |  |  |
|  | Urban Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x | |  |  |  |  |  |
|  | Rural Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |
|  | Urban Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x | |  |  |  |  |  |
|  | Rural Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  | x | |  |  |  |  |  |
|  | Puerto Rico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | x |  |  |  | x | |  |  |
| ALSA |  |  |  | 28.3 | x | 31.7 | x |  | x |  |  | x |  |  | x |  | x | x | | x |  |  |  | x | x |  |
| ATTICA |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  | x |  |  |  |  | x | |  |  |  |
| CHARLS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | | x | x\* | x\* |
| COURAGE | Spain |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10.8 | |  | x | |
|  | Poland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4.2 | |  | 7.6 | |
|  | Finland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 23.9 | |  |  |  |
| ELSA |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x | |
| ENRICA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  | x |
| HAPIEE | Poland |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |  |  |
|  | Czech Rep. |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |  |  |
|  | Lithuania |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  |  |  |
| HEALTH 2000/2011 |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  |  |  |  | x | |  |  |  |
| HRS | AHEAD |  |  | x |  | x |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | CODA |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | WB |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | EBB |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | MBB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x\* |  |
| JSTAR | AKSST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14.7 |  | 13.7 |  | 10.9 |  |  |  |  |
|  | TN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8.5 |  | 8.3 |  |  |  |  |
|  | CTH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 11.2 |  |  |  |  |
| KLOSA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x\* |  |
| MHAS |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  |  |  |  |  |  |  |  | x |  |  | x\* |
| SAGE | South Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  | x\* |
|  | Ghana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  | x\* |
|  | China |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  | x\* |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  | x\* |
|  | Russia |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  | x\* |
|  | Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  | x\* |
| SHARE |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x | | x | |  | x |  | x |
| TILDA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x\* | |

x – harmonization process could not be done;  
\* - datasets not available yet

**Supplementary table 9a.** Questions and response categories in original surveys and new harmonized variable of sport activity (*sport*)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of the study** | **Questions** | **Response categories** | **Time frame** | **Waves** | **Response categories of the harmonized variable** | **Interpretation of the answer *yes* in the harmonized variable** |
| **ALSA** | **W3:** When we interviewed you 2 years ago, you indicated some clubs of which you were a member. We would like to check if you are still a member of these clubs  Are you still a member of :  3 among 34 VARIABLES: Football Clubs; Other Spotring Groups; Golf Clubs;  W6 and further:  There are also items:  Q1: How often have you spent some time outdoors participating in a recreational or sporting activity? (Bowls, fishing, golf, etc. Excludes spectator sports.)  Q2: How often have you spent some time outdoors participating in a recreational or sporting activity? (Bowls, fishing, golf, etc. Excludes spectator sports.) | W3: Not member/ member  W6 or further:  Q1-Q2: Never/About once a month/About once a fortnight/once a week or more | Present situation | W3 | W3: No/Yes | W3: Participation in sport activities at least once a month |
| **COURAGE** | How often in the last 12 months have you attended sport clubs, sport competitions, or done sports with someone else? | Never/once or twice per year/once or twice per month/once or twice per week/daily | The last 12 months | All waves | No/Yes | Participation in religious meeting at least once a month |
| **ELSA** | Q1: Are you a member of any of these organizations, clubs or societies?  Tick all that apply: 1. Political party, trade union or environmental groups; 2. Tenants groups, resident groups, neighborhood watch; 3. Church or other religious groups; 4. Charitable associations; 5. Education, art or music groups or evening classes; 6. Social club; **7. Sports clubs, gym, exercise classes;** 8. Any other organizations, club or societies; 9. No, I am not a member of any organizations, clubs or societies | Yes/No |  | W1-W7 | Yes/No | Member of s**ports clubs, gym, exercise classes** |
| **JSTAR** | Q1:In the past month, did you engage in any non-work activities with someone other than your family and friends? (If Yes)  Q2: What kinds of activities did you engage in? Please select all that apply. | Q1: No/Yes/Don’t know  If yes  Q2:Community activity (including senior club events and festivals)/ Helping neighbors (in a personal capacity)/ Volunteer or charitable activity /Religious activity / Political activity / Hobbies, travel, leisure activities, etc./ Study, learning, etc./ **Sports or other exercise activities (including gateball [like croquet], jogging, etc.)**/ Other (specify) | The last month | 5 cities- W1, W2, W3  2 cities- W1, W2  2 cities- W1, | No/Yes | Participation in the last month in  **Sports or other exercise activities** |
| **TILDA** | We would like to ask you some questions about participation in social activities. How often, if at all, do you do any of the following activities? :  Participation in sport activities or exercise | Daily or almost daily/once a week or more/twice moth or more/ about one a month/every few month/about once or twice a year/less than once a year/never | Year | W1, W2 | - | Not clear whether item is related to organized group activities |

**Supplementary table 9b.** Studies in which particular aspects of sport participation was available

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **ALSA** | **COURAGE** | **ELSA** | **JSTAR** | **TILDA** |
| Being a member | **+** | **-** | **+** | **-** | **-** |
| Sport participation at least once a month | **-** | **+** | **-** | **+** | **+?** |
| Sport participation at least once a year | **-** | **+** | **-** | **-** | **+?** |
| Sport participation – frequency during the year (5 response categories) | **-** | **+** |  | **-** | **+?** |

**Supplementary table 10.** Percent of respondents participated in organized sport activities acrossstudies included in the ATHLOS cohort.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study | Population | Year of interview | | | | | | | | | | | | | | | | | | | | | | | | |
| 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| 10/66 | Cuba |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  | x |  |  |  |  |  |  |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  |  |  |  |  |  |
|  | Urban China |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  | x |  |  |  |  |  |  |
|  | Rural China |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  | x |  |  |  |  |  |  |
|  | Dominican Rep. |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  | x | |  |  |  |  |  |
|  | Venezuela |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x | |  |  |  |  |  |
|  | Urban Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x | |  |  |  |  |  |
|  | Rural Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |
|  | Urban Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x | |  |  |  |  |  |
|  | Rural Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  | x | |  |  |  |  |  |
|  | Puerto Rico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | x |  |  |  | x | |  |  |
| ALSA |  |  |  | x | x | 6.0 | x |  | x |  |  | x |  |  | x |  | x | x | | x |  |  |  | x | x |  |
| ATTICA |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  | x |  |  |  |  | x | |  |  |  |
| CHARLS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | | x | x\* | x\* |
| COURAGE | Spain |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 17.6 | |  | x | |
|  | Poland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7.7 | |  | 8.0 | |
|  | Finland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 47.5 | |  |  |  |
| ELSA |  |  |  |  |  |  |  |  |  |  |  |  | 19.2 |  | 20.5 |  | 21.8 |  | 23.2 |  | 23.5 |  | 24.4 |  | 26.3 | |
| ENRICA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  | x |
| HAPIEE | Poland |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |  |  |
|  | Czech Rep. |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |  |  |
|  | Lithuania |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  |  |  |
| HEALTH 2000/2011 |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  |  |  |  | x | |  |  |  |
| HRS | AHEAD |  |  | x |  | x |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | CODA |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | WB |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | EBB |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | MBB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x\* |  |
| JSTAR | AKSST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 16.3 |  | 19.2 |  | 20.5 |  |  |  |  |
|  | TN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 15.6 |  | 15.3 |  |  |  |  |
|  | CTH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 16.4 |  |  |  |  |
| KLOSA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x\* |  |
| MHAS |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  |  |  |  |  |  |  |  | x |  |  | x\* |
| SAGE | South Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  | x\* |
|  | Ghana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  | x\* |
|  | China |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  | x\* |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  |  |  |  | x\* |
|  | Russia |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  | x\* |
|  | Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  | x\* |
| SHARE |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x | | x | |  | x |  | x |
| TILDA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x\* | |

x – harmonization process could not be done;  
\* - datasets not available yet

**Supplementary table 11a.** Questions and response categories in original survey and new harmonized variable of participation in volunteer/charity group activities (*volun*)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name of the study** | **Questions** | **Response categories** | **Time frame** | **Wave of the study1** | **Categories of the harmonized variable** | | **Interpretation of the answer *yes* in the harmonized variable** |
| Voluntary participation (*volun*) | | | | | | | |
| **ALSA** | **W1:**  **Q1:** Are you a member of any clubs or organizations such as church related groups, social or sporting groups? What are they?  **W3:**  **Q2:** When we interviewed you 2 years ago, you indicated some clubs of which you were a member. We would like to check if you are still a member of these clubs  Are you still a member of :  **(34 VARIABLES):** RSL; Senior Citzens; Probus; Church/Religious; Bowls; Rotary; Aged Pensioners; Community Clubs; Social Clubs; Specific Interest-Hobby; Craft Groups; Masons, Lodges; Specific Interest-Other; **Charity/Volunteer**; Other Ex-service Clubs; Football Clubs; Other prt\_clubing Groups; ARPA; Bridge/Card Clubs; Golf Clubs; Agricultral/Horticultural; Retired Persons Groups; Cooinda; Over 50; Over 60; Friendship/Fellowship; Art Appreciation; Music/Dance; Lions; CWA; Travel Clubs; Special Womens Groups; Legacy; Other Society; | Q2: Not member/ member | At the time of the study | The item from W1 was not available for the harmonization process  Q2 – for W3 | No/Yes | Member of charity or volunteer club | |
| **CHARLS** | Have you done any of these activities in the last month: Went to Club?; Have you done any of these activities in the last month:  -Provided help to family, friends, or neighbors who do not live with you and who did not pay you for the help  -Done voluntary or charity work  -Cared for a sick or disabled adult who does not live with you and who did not pay you for the help) | Yes/No | The last month | W1, W2 | No/Yes | Done voluntary activities in the last month | |
| **COURAGE/ SAGE** | How often in the last 12 months have you worked with other people in your neighbourhood to fix or improve something? | Never/ once or twice per year/ once or twice per month/ once or twice per week/ daily | The last 12 months | All waves | No/Yes | Participation in volunteer work in neighborhood at least once a month | |
| **ELSA** | **Self-completion questionnaire:**  **Q1:** Are you a member of any of these organizations, clubs or societies?  Tick all that apply: 1. Political party, trade union or environmental groups; 2. Tenants groups, resident groups, neighborhood watch; 3. Church or other religious groups; 4. **Charitable associations**; 5. Education, art or music groups or evening classes; 6. Social club; 7. Sports clubs, gym, exercise classes; 8. Any other organizations, club or societies; 9. No, I am not a member of any organizations, clubs or societies  **Main questionnaire:**  **Q1:** Did you do any of these activities during the last month, that is since date a month ago? IF YES, PROBE: Which ones?  Code all that apply: 1. Paid work, 2. Self-employment, 3. **Voluntary work,** 4. Cared for a sick or disabled adult, 5. Looked after home or family, 6. Attended a formal educational or training course, 96 None of these *🡪 this item was not used into the harmonization process*  **Q2:** How often if at all do you do any voluntary work? Is it ... | **Self-completion questionnaire:**  Q1: No/Yes  **Main questionnaire:**  Q1: No/Yes  Q2: twice a month or more/ about once a month/ every few months/ about once or twice a year/ less than once a year/ never | Year | All waves | No/Yes | Membership in the charitable association or participation in voluntary work at least every few months | |
| **JSTAR** | Q1:In the past month, did you engage in any non-work activities with someone other than your family and friends? (If Yes)  Q2: What kinds of activities did you engage in? Please select all that apply. | Q1: No/Yes/Don’t know  If yes  Q2: Community activity (including senior club events and festivals)/ **Helping neighbors (in a personal capacity)/ Volunteer or charitable activity/** Religious activity/ Political activity/ Hobbies, travel, leisure activities, etc./ Study, learning, etc./ Sports or other exercise activities (including gateball [like croquet], jogging, etc.)/ Other (specify) | The last month | 5 cities- W1, W2, W3  2 cities- W1, W2  2 cities- W1, | No/Yes | Participation in the last month volunteer or charitable activity | |
| **KLOSA** | Q1: Participating to the Volunteer groups  Q2:The number of times which participates to Volunteer groups | Q1: No/Yes  Q2: Almost every day (more than 4 times per week)/Once a week/2-3 times a week/ Once a month/Twice a month (every two weeks)/Once or twice a year/Three or four times a year/ Five or six times a year/Almost never a year/Almost never | year | W1-W4 | No/Yes | Participating to volunteer groups at least three times a year | |
| **MHAS** | **W2-W3:**  **In case of follow-up questionnaire:**  Q1: During the last 2 years, did you participate in any volunteer work for a religious, educational or community organization?  **In case of questionnaire for new respondent:**  Q2: In the last 2 years, have you spent any time doing volunteer work for religious, educational organizations, charity, or for the community?  In the section: Use of time  The following questions refer to different activities that one can perform in their daily lives. I will ask you to please tell me if you did some of these activities during the past year and how often you performed them. (.34a Caring for a sick or disabled adult/ Caring for children under 12 years old / **Volunteer work or support an organization without pay or reward** *🡪 this item was not used into the harmonization process* | Q1: Yes/No  Q2: Yes/No | The last 2 years |  | No/Yes | Participating in any volunteer work during the last two years | |
| **SHARE** | W1-W2  Q1: Have you done any of these activities in the last month?  Q2: How often in the last four weeks have you taken part in …?  W4,W5:  Q1: Which of the activities listed on this card - if any - have you done in the past twelve months?  Q2: How often in the past twelve months have you taken part in a political or community-related organization? | W1, W2:  Q1: **Done voluntary or charity work**/Cared for a sick or disabled adult/**Provided help to family, friends or neighbors**/Attended an educational or training course/Gone to a sport, social or other kind of club/Taken part in a religious organization (church, synagogue, mosque  etc.)/Taken part in a political or community-related organization/ None of these  Q2:Almost daily/ Almost every week/ Less often  W4,W5: Q1: **Done voluntary or charity work/**Attended an educational or training course/ Gone to a sport, social or other kind of club/ Taken part in activities of a religious organization (church, synagogue, mosque etc.)/ Taken part in a political or community-related organization/ Read books, magazines or newspapers/ Did word or number games such as crossword puzzles or Sudoku/Played cards or games such as chess/None of these  Q2: Almost daily/Almost every week/Almost every month/Less often | W1, W2:  Last month  W4,W5, W6:  Past twelve months | W1, W2, W4,W5 | No/Yes | W1/W2: Done voluntary or charity work in the last month  W4/W5: Done voluntary or charity work in the last year | |
| **TILDA** | We would like to ask you some questions about participation in social activities. How often, if at all, do you do any of the following activities?  Do voluntary work | Daily or almost daily/once a week or more/twice moth or more/ about one a month/every few month/about once or twice a year/less than once a year/never | Year |  | No/Yes | Do voluntary activities at least every few months | |

Note 1- Waves available for the harmonization were listed in the previous paper (Sanchez-Niubo et al., 2019). All waves means all available for the ATHLOS project.

**Supplementary table 11b.**  Studies in which particular aspects of participation in volunteer/ charity group activities was available.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ALSA** | **CHARLS** | **COURAGE** | **ELSA** | **JSTAR** | **KLOSA** | **MHAS** | **SAGE** | **SHARE** | **TILDA** |
| Being a member charity or volunteer club | **+** | **-** | **-** | **+** | **-** | **-** | **-** | **-** | **-** | **-** |
| Done voluntary activities or participation in volunteer groups |  | **+** |  | **+** | **+** | **+** | **+** |  | **+** | **+** |
| Done voluntary activities during at least once a month | **-** | **+** | **+** | **-** | **+** | **-** | **-** | **+** | **-** | **+** |
| Do voluntary work at least once a month | **-** | **-** | **+** | **+** | **-** | **-** | **-** | **+** | **-** | **+** |
| Active participation in volunteering with five point response scale | **-** | **-** | **+** | **+** | **-** | **-** | **-** | **+** | **-** | **+** |

**Supplementary table 12.** Percent of respondents participated in volunteer/ charity group activities acrossstudies included in the ATHLOS cohort.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study | Population | Year of interview | | | | | | | | | | | | | | | | | | | | | | | | |
| 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| 10/66 | Cuba |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  | x |  |  |  |  |  |  |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  |  |  |  |  |  |
|  | Urban China |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  |  | x |  |  |  |  |  |  |
|  | Rural China |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  | x |  |  |  |  |  |  |
|  | Dominican Rep. |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  | x | |  |  |  |  |  |
|  | Venezuela |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x | |  |  |  |  |  |
|  | Urban Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x | |  |  |  |  |  |
|  | Rural Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |
|  | Urban Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x | |  |  |  |  |  |
|  | Rural Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  | x | |  |  |  |  |  |
|  | Puerto Rico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | x |  |  |  | x | |  |  |
| ALSA |  |  |  | x | x | 3.6 | x |  | x |  |  | x |  |  | x |  | x | x | | x |  |  |  | x | x |  |
| ATTICA |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  | x |  |  |  |  | x | |  |  |  |
| CHARLS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.6 | | 13.0 | x\* | x\* |
| COURAGE | Spain |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4.5 | |  | 6.8 | |
|  | Poland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7.3 | |  | 11.2 | |
|  | Finland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 11.1 | |  |  |  |
| ELSA |  |  |  |  |  |  |  |  |  |  |  |  | 30.9 |  | 34.2 |  | 34.8 |  | 35.1 |  | 35.3 |  | 36.0 |  | 35.8 | |
| ENRICA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  | x |
| HAPIEE | Poland |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |  |  |
|  | Czech Rep. |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  | x |  |  |  |  |  |  |  |  |
|  | Lithuania |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  |  |  |
| HEALTH 2000/2011 |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  |  |  |  | x | |  |  |  |
| HRS | AHEAD |  |  | x |  | x |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | CODA |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | WB |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | EBB |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | MBB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x\* |  |
| JSTAR | AKSST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 11.5 |  | 9.1 |  | 7.8 |  |  |  |  |
|  | TN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8.6 |  | 6.6 |  |  |  |  |
|  | CTH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7.9 |  |  |  |  |
| KLOSA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2.5 |  | 1.3 |  | 1.0 |  | 0.8 |  | x\* |  |
| MHAS |  |  |  |  |  |  |  |  |  |  |  | 14.1 |  | 93.7 |  |  |  |  |  |  |  |  | 18.1 |  |  | x\* |
| SAGE | South Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24.4 |  |  |  |  |  |  |  | x\* |
|  | Ghana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 33.7 | |  |  |  |  |  |  | x\* |
|  | China |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 13.7 |  |  |  |  |  |  |  | x\* |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 18.6 |  |  |  |  |  |  |  | x\* |
|  | Russia |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8.3 | |  |  |  |  |  |  | x\* |
|  | Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8.0 | |  |  |  |  | x\* |
| SHARE |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30.4 |  | 26.2 |  | x | | 15.9 | |  | 18.1 |  | x |
| TILDA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 36.7 |  | 41.2 |  | x\* | |

**Supplementary table 13a.**  Questions and response categories in original surveys and new harmonized variable of any activity (*part\_club*)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of the study** | **Questions** | **Response categories** | **Time frame** | **Wave of the study1** | **Response categories of the harmonized variable** | **Interpretation of the answer *yes* in the harmonized variable** |
| **10/66** | Do you attend meetings of any community or social groups, such as clubs, lectures or anything like that? | No/Yes, regularly/Yes, occasionally | No data |  | No/Yes | Regularly or occasionally attend meetings of any community or social groups |
| **ALSA** | W1: Are you a member of any clubs or organizations such as church related groups, social or sporting groups?  W3: When we interviewed you 2 years ago, you indicated some clubs of which you were a member. We would like to check if you are still a member of these clubs  Are you still a member of :  34 VARIABLES: RSL; Senior Citzens; Probus; Church/Religious; Bowls; Rotary; Aged Pensioners; Community Clubs; Social Clubs; Specific Interest-Hobby; Craft Groups; Masons, Lodges; Specific Interest-Other; Charity/Volunteer; Other Ex-service Clubs; Football Clubs; Other prt\_clubing Groups; ARPA; Bridge/Card Clubs ; Golf Clubs; Agricultral/Horticultural; Retired Persons Groups; Cooinda; Over 50; Over 60; Friendship/Fellowship; Art Appreciation; Music/Dance; Lions; CWA; Travel Clubs; Special Womens Groups; Legacy; Other Society;  W6 or further:  How often have you participated in social activities at a centre such as a club, a church, or a community centre? (Bingo, senior citizens, RSL, a hotel, selfeducation courses.)  There are also three other items, which should be added:  Q2: How often have you attended religious services or meetings? Q3: How often have you participated in an outdoor social activity? (BBQs, picnics, spectator sports, etc.)  Q4: How often have you spent some time outdoors participating in a recreational or sporting activity? (Bowls, fishing, golf, etc. Excludes spectator sports.) | W1: Yes/No.  W3: Not member/ member  W6 or further:  Q1: Less than once a month/ about once a month/ about once a week/ more than once a week/ no answer  Q2-Q4: Never/About once a month/About once a fortnight/once a week or more | typical 3 month period. If you like, you could think about the last 3 months | W1, W3, W6, W7, W9, W11, W12 | No/Yes | Participation in religious meeting at least once a month |
| **CHARLS** | Have you done any of these activities in the last month:  Full list of activities:  Interacted with friends /Played Ma-jong, played chess, played cards, or went to community club / Provided help to family, friends, or neighbors who do not live with you and who did not pay you for the help/**Went to a sport, social, or other kind of club / Took part in a community-related organization**/ Done voluntary or charity work /Cared for a sick or disabled adult who does not live with you and who did not pay you for the help/ Attended an educational or training course/Stock investment /Used the Internet /other/None of these | Yes/No | The last month |  | No/Yes | Went to **sport, social, or other kind of club or took part in a community-related organization** in the last month |
| **COURAGE** | How often in the last 12 months have you attended any group, club, society, union or organizational meeting?;  How often in the last 12 months have you gotten out of the house/your dwelling to attend social meetings, activities, programs or events or to visit friends or relatives? | Never/once or twice per year/once or twice per month/once or twice per week/daily | The last 12 months | All waves | No/Yes | Participation in attended any group, club, society, union or organizational meeting gotten out of the house/your dwelling to attend social meetings, activities, programs or events or to visit friends or relatives at least once a month |
| **ELSA** | Self-completion questionnaire:  Q1: Are you a member of any of these organizations, clubs or societies?  Tick all that apply: 1. Political party, trade union or environmental groups; 2. Tenants groups, resident groups, neighborhood watch; 3. Church or other religious groups; 4. **Charitable associations**; 5. Education, art or music groups or evening classes; 6. Social club; 7. Sports clubs, gym, exercise classes; 8. Any other organizations, club or societies; 9. No, I am not a member of any organizations, clubs or societies  Q2: If one of the 1 to 8 was marked there was a question about frequency of attendance.  Thinking about all the organisations, clubs or societies that you are a member of, how many committee meetings, if any, do you attend in a year?  Please write the number in this box  How often ^if at all do you do ^any **voluntar**y work?Is it ... READ OUT ... 1 ... twice a month or more, 2 about once a month, 3 every few months, 4 about once or twice a year, 5 less than once a year, 6 or, never? | Yes/No |  | W1-W7 | No/Yes | Member of any organizations, clubs or societies |
| **HAPIEE** | Q1: Are you a member of a club/organisation?);  Q2: How often do you take part in common activities? | Q1: Yes/No  Q2: Several times a week/ Several times a month/ About once a month/ Several times a year/ Never or almost Never |  | All countries – W1 | No/Yes  (based on Q1) | Member of any organizations, clubs |
| **JSTAR** | Q1:In the past month, did you engage in any non-work activities with someone other than your family and friends? (If Yes)  Q2: What kinds of activities did you engage in? Please select all that apply. | Q1: No/Yes/Don’t know  If yes  Q2:  1. **Community activity (including senior club events and festivals)** 2. Helping neighbors (in a personal capacity) 3. Volunteer or charitable activity 4. **Religious activity 5. Political activity** 6. Hobbies, travel, leisure activities, etc. 7. Study, learning, etc. 8. Sports or other exercise activities (including gateball [like croquet], jogging, etc.) 9. Other (specify) | The last month | 5 cities- W1, W2, W3  2 cities- W1, W2  2 cities- W1, | No/Yes | Participation in the last month in community activities or religious or political activities |
| **KLOSA** | Q1: Participating to 1. the religious meeting; 2. Social clubs (e.g., private savings club, senior citizens' club, etc); 3. leisure/cultural/sports relation group (old person university etc.) 4. Alumni society/society for people from the same hometown/ family council 5. the political party/the NGOs/the interest group? 6. Other group  (If yes)  Q2: How often participates to the 1- 6 previous groups | Q1: No/Yes  Q2: Almost every day (more than 4 times per week)/Once a week/2-3 times a week/ Once a month/Twice a month (every two weeks)/Once or twice a year/Three or four times a year/ Five or six times a year/Almost never a year/Almost never | W4: The last 12 months | W1-W4 | No/Yes | Participating to the political party/NGOs/the interest group at least once a month |
| **SAGE** | How often in the last 12 months have you attended any group, club, society, union or organizational meeting?;  How often in the last 12 months have you gotten out of the house/your dwelling to attend social meetings, activities, programs or events or to visit friends or relatives? | Never/once or twice per year/once or twice per month/once or twice per week/daily | The last 12 months | All waves | No/Yes | Participation in attended any group, club, society, union or organizational meeting at least once a month |
| **SHARE** | W1-W2  Q1: Have you done any of these activities in the last month?  Q2 -3 items: How often in the last four weeks gone to a sport, social or other kind of club/ have you taken part in a religious organization (church, synagogue, mosque etc.)/ have you taken part in a political or community-related organization?  W4, W5:  Q1: Which of the activities listed on this card - if any - have you done in the past twelve months?  Q2: How often in the past twelve months gone to a sport, social or other kind of club/ have you taken part in a religious organization (church, synagogue, mosque etc.)/ have you taken part in a political or community-related organization? | W1, W2:  Q1: Done voluntary or charity work/Cared for a sick or disabled adult/Provided help to family, friends or neighbors/Attended an educational or training course/**Gone to a sport, social or other kind of club/Taken part in a religious organization (church, synagogue, mosque**  **etc.)/Taken part in a political or community-related organization/**None of these  Q2: Almost daily/Almost every week/Less often  W4,W5: Q1: Done voluntary or charity work/Attended an educational or training course/**Gone to a sport, social or other kind of club/Taken part in activities of a religious organization (church, synagogue, mosque etc.)/Taken part in a political or community-related organization/Read books, magazines or newspapers/** Did word or number games such as crossword puzzles or Sudoku/Played cards or games such as chess/None of these  Q2: Almost daily/Almost every week/Almost every month/Less often | W1, W2:  Last month  W4,W5, W6:  Past twelve months | W1, W2, W4,W5 | No/Yes | Participation in a sport, social or other kind of club; Taken part in a religious organization (church, synagogue, mosque etc.); Taken part in a political or community-related organization at least once a month |
| **TILDA** | Do you participate in any groups such as a sports or social group etc? | Yes/No |  |  | No/Yes |  |

**Supplementary table 13b.**  Studies in which particular aspects of any participation was available

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **10/66** | **ALSA** | **CHARLS** | **COURAGE** | **ELSA** | **HAPIEE** | **H2000/11** | **JSTAR** | **KLOSA** | **MHAS** | **SAGE** | **SHARE** | **TILDA** |
| **Membership** | - | +(W1 (general item including religious, W3 list of clubs including volunteer and church) | - | - | +Q1(list including political and religious participation) | + | - | - | - | - | - | - | - |
| **Attending/taking part in any community or social group meetings** | +(general question ) |  |  | + |  |  |  |  |  |  | + |  |  |
| **Active participation at least once a month** | - | - | + | + | + (open question asking about numbers a year 🡪 not used in the harmonization process | + | - | + | + | - | + | - | +? |
| **Active voluntary participation with five point response scale** | - | - | - | ?+ | + | + | - | - | + | - | ?+ | - | +? |

**Supplementary table 14.** Percent of respondents reported any participation acrossstudies included in the ATHLOS cohort.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Study | Population | Year of interview | | | | | | | | | | | | | | | | | | | | | | | | |
| 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
| 10/66 | Cuba |  |  |  |  |  |  |  |  |  |  |  |  |  | 38.5 |  |  |  |  | 47.1 |  |  |  |  |  |  |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 22.5 |  |  | x |  |  |  |  |  |  |  |
|  | Urban China |  |  |  |  |  |  |  |  |  |  |  |  |  | 4.0 |  |  |  |  | 20.9 |  |  |  |  |  |  |
|  | Rural China |  |  |  |  |  |  |  |  |  |  |  |  |  | 10.8 | |  |  |  | 20.4 |  |  |  |  |  |  |
|  | Dominican Rep. |  |  |  |  |  |  |  |  |  |  |  |  |  | 35.5 | |  |  |  | 58.9 | |  |  |  |  |  |
|  | Venezuela |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 58.8 | |  |  | 55.0 | |  |  |  |  |  |
|  | Urban Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 74.6 | |  |  | 68.0 | |  |  |  |  |  |
|  | Rural Peru |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 81.9 | |  |  | 66.3 |  |  |  |  |  |  |
|  | Urban Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 26.6 |  |  | 38.2 | |  |  |  |  |  |
|  | Rural Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 24.0 | |  | 41.9 | |  |  |  |  |  |
|  | Puerto Rico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | 25.7 |  |  |  | 54.5 | |  |  |
| ALSA |  |  |  | 53.2 | x | 53.6 | x |  | x |  |  | 68.2 |  |  | 79.6 |  | x | 62.6 | | x | 45.7 |  |  | 58.8 | x |  |
| ATTICA |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  |  | x |  |  |  |  | x | |  |  |  |
| CHARLS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.6 | | 9.1 | x\* | x\* |
| COURAGE | Spain |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 44.2 | |  | 43.7 | |
|  | Poland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 48.5 | |  |  | 51.1 |
|  | Finland |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 81.4 | |  |  |  |
| ELSA |  |  |  |  |  |  |  |  |  |  |  |  | 69.2 |  | 74.0 |  | 72.6 |  | 71.2 |  | 71.3 |  | 71.1 |  | 70.7 | |
| ENRICA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  |  | x |  |  | x |
| HAPIEE | Poland |  |  |  |  |  |  |  |  |  |  |  |  | 11.9 | |  |  | x |  |  |  |  |  |  |  |  |
|  | Czech Rep. |  |  |  |  |  |  |  |  |  |  |  |  | 27.4 | |  |  | x |  |  |  |  |  |  |  |  |
|  | Lithuania |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14.4 | |  |  |  |  |  |  |  |  |
| HEALTH 2000/2011 |  |  |  |  |  |  |  |  |  |  | x | |  |  |  |  |  |  |  |  |  | x | |  |  |  |
| HRS | AHEAD |  |  | x |  | x |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | CODA |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | WB |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | EBB |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x |  | x |  | x |  | x\* |  |
|  | MBB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  | x\* |  |
| JSTAR | AKSST |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 17.9 |  | 15.9 |  | 12.9 |  |  |  |  |
|  | TN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 11.5 |  | 10.6 |  |  |  |  |
|  | CTH |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 14.0 |  |  |  |  |
| KLOSA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 67.0 |  | 73.2 |  | 71.4 |  | 73.1 |  | x\* |  |
| LASA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LASI |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8.0 | |  |  |  |  |
| MHAS |  |  |  |  |  |  |  |  |  |  |  | x |  | x |  |  |  |  |  |  |  |  | x |  |  | x\* |
| SAGE | South Africa |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 31.7 |  |  |  |  |  |  | x\* | |
|  | Ghana |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 45.0 | |  |  |  |  |  | x\* | |
|  | China |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4.7 |  |  |  |  |  |  | x\* | |
|  | India |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10.0 |  |  |  |  |  |  | x\* | |
|  | Russia |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.3 | |  |  |  |  |  | x\* | |
|  | Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 8.8 | |  |  |  | x\* | |
| SHARE |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 30.4 |  | 30.9 |  | x | | 36.7 | |  | 32.7 |  | x\* |
| TILDA |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 47.5 |  | 52.2 |  | x\* | |

x – harmonization process could not be done;  
\* - datasets not available yet