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| Supplementary Table S1. Differences in mortality rates from all causes and from leading causes of deaths (except Covid-19) per 100,000 person-years in each semester of 2020 compared to the same semester of 2017-2019 by sex, age and educational level. |
| Semester of the year |  | First semester |  | Second semester |
| Sex |  | Women |  | Men |  | Women |  | Men |
| Education level |  | Low |  | Medium |  | High |  | Low |  | Medium |  | High |  | Low |  | Medium |  | High |  | Low |  | Medium |  | High |
| *Age group and cause of death (code ICD-10)* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **25-64 yr** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All causes  |  | 53 |  | 13 |  | 4 |  | 75 |  | 13 |  | 19 |  | 44 |  | 11 |  | -2 |  | 42 |  | 23 |  | 10 |
| All causes except COVID-19 |  | 18 |  | 1 |  | -3 |  | 16 |  | -17 |  | -8 |  | 17 |  | 2 |  | -7 |  | -2 |  | 1 |  | -3 |
| Cancer (C00-C97) |  | 3 |  | 0 |  | -3 |  | -5 |  | -11 |  | -8 |  | 7 |  | -2 |  | -9 |  | -17 |  | -8 |  | -6 |
| Diabetes (E10-E14) |  | -1 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 3 |  | 0 |  | 0 |  | 1 |  | 1 |  | 0 |
| Alzheimer disease (G30) |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |
| Cardiovascular diseases (I00-I99) |  | 5 |  | 0 |  | 0 |  | 2 |  | -1 |  | 2 |  | 1 |  | 1 |  | 2 |  | 8 |  | 9 |  | 3 |
|  Diseases of heart (I00-I09,I11, I13, I20-I51) |  | 2 |  | 0 |  | 2 |  | 3 |  | -1 |  | 0 |  | 0 |  | 0 |  | 0 |  | 6 |  | 8 |  | 2 |
|  Hypertension (I10, I12, I15) |  | 1 |  | 0 |  | 0 |  | 1 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |
|  Cerebrovascular diseases (I60-I69) |  | 2 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | -1 |  | 0 |  | 1 |  | 1 |  | 0 |  | 1 |
| Respiratory diseases (J00-J99) |  | 1 |  | 0 |  | 0 |  | 3 |  | -2 |  | 1 |  | 0 |  | 0 |  | 0 |  | 1 |  | -1 |  | 0 |
|  Influenza and pneumonia (J10-J18) |  | 3 |  | 0 |  | 0 |  | 1 |  | 0 |  | 1 |  | 0 |  | 0 |  | 0 |  | 1 |  | 0 |  | 0 |
|  Chronic lower respiratory diseases (J40-J47) |  | 0 |  | 0 |  | 0 |  | 0 |  | -1 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |  | 0 |
| Digestive diseases (K00-K93) |  | 2 |  | 0 |  | 0 |  | 0 |  | -1 |  | 0 |  | 3 |  | 2 |  | 0 |  | 0 |  | 1 |  | 0 |
| External causes (V01-Y98) |  | 0 |  | 1 |  | 0 |  | 10 |  | 2 |  | -1 |  | 0 |  | 1 |  | 1 |  | 8 |  | 3 |  | 2 |
|  Motor vehicle accidents1 |  | -1 |  | 0 |  | 0 |  | 0 |  | -1 |  | -1 |  | 0 |  | 0 |  | 0 |  | 0 |  | -1 |  | -1 |
|  Drug overdose deaths (X40-X44) |  | 0 |  | 0 |  | 0 |  | 2 |  | 2 |  | 0 |  | 0 |  | 1 |  | 0 |  | 4 |  | 2 |  | 0 |
|  Suicide (X60-X84+Y87.0) |  | 1 |  | 1 |  | 0 |  | 1 |  | 0 |  | 0 |  | 1 |  | 0 |  | 1 |  | 0 |  | 1 |  | 3 |
| All other causes except Covid-19 |  | -3 |  | -1 |  | 0 |  | 4 |  | -6 |  | -2 |  | 6 |  | 0 |  | -1 |  | -3 |  | -3 |  | -2 |
| **65-74 yr** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All causes  |  | 162 |  | 114 |  | 142 |  | 244 |  | 323 |  | 309 |  | 137 |  | 113 |  | 21 |  | 215 |  | 210 |  | 112 |
| All causes except COVID-19 |  | -3 |  | -14 |  | 24 |  | -130 |  | -25 |  | -24 |  | 30 |  | 39 |  | -23 |  | -40 |  | -11 |  | -46 |
| Cancer (C00-C97) |  | -7 |  | -8 |  | 15 |  | -87 |  | -20 |  | -6 |  | 20 |  | 10 |  | -5 |  | -82 |  | -10 |  | -35 |
| Diabetes (E10-E14) |  | 0 |  | 4 |  | -1 |  | 10 |  | 4 |  | 5 |  | 0 |  | 1 |  | 5 |  | 9 |  | 4 |  | 7 |
| Alzheimer disease (G30) |  | 0 |  | 3 |  | 2 |  | -3 |  | 2 |  | 0 |  | -1 |  | 3 |  | 1 |  | -3 |  | 0 |  | 2 |
| Cardiovascular diseases (I00-I99) |  | -6 |  | -7 |  | 3 |  | -19 |  | -11 |  | -13 |  | 11 |  | 12 |  | -8 |  | 33 |  | 25 |  | 1 |
|  Diseases of heart (I00-I09,I11, I13, I20-I51) |  | 0 |  | -9 |  | 9 |  | -8 |  | -10 |  | 0 |  | 5 |  | 7 |  | -12 |  | 18 |  | 16 |  | 1 |
|  Hypertension (I10, I12, I15) |  | 3 |  | 1 |  | 2 |  | 3 |  | 1 |  | 3 |  | 1 |  | 0 |  | -2 |  | 4 |  | 2 |  | 0 |
|  Cerebrovascular diseases (I60-I69) |  | -8 |  | -3 |  | -8 |  | -5 |  | -4 |  | -12 |  | 5 |  | 3 |  | 6 |  | 11 |  | 6 |  | 2 |
| Respiratory diseases (J00-J99) |  | 5 |  | -3 |  | 2 |  | -15 |  | -16 |  | -11 |  | 0 |  | -1 |  | -10 |  | -32 |  | -26 |  | -7 |
|  Influenza and pneumonia (J10-J18) |  | 2 |  | 2 |  | -1 |  | 10 |  | -1 |  | 9 |  | 2 |  | -3 |  | -2 |  | -5 |  | -8 |  | 3 |
|  Chronic lower respiratory diseases (J40-J47) |  | 0 |  | -3 |  | 6 |  | -23 |  | -9 |  | -12 |  | -1 |  | 2 |  | -1 |  | -19 |  | -8 |  | 5 |
| Digestive diseases (K00-K93) |  | 1 |  | -1 |  | 8 |  | -17 |  | 11 |  | -2 |  | 4 |  | 3 |  | 1 |  | 5 |  | 6 |  | -3 |
| External causes (V01-Y98) |  | -4 |  | -6 |  | -4 |  | 4 |  | 3 |  | 6 |  | -1 |  | 2 |  | -7 |  | 3 |  | 0 |  | -6 |
|  Motor vehicle accidents1 |  | -1 |  | -2 |  | -3 |  | -1 |  | -3 |  | -2 |  | -1 |  | -1 |  | 0 |  | 0 |  | 0 |  | -2 |
|  Drug overdose deaths (X40-X44) |  | 0 |  | 0 |  | 0 |  | 1 |  | 0 |  | 1 |  | 0 |  | 0 |  | 0 |  | 1 |  | 1 |  | 1 |
|  Suicide (X60-X84+Y87.0) |  | -1 |  | -1 |  | 2 |  | 3 |  | 4 |  | 5 |  | 0 |  | 0 |  | -5 |  | 2 |  | 0 |  | -1 |
| All other causes except Covid-19 |  | 8 |  | 11 |  | -1 |  | 5 |  | 8 |  | 2 |  | -4 |  | 12 |  | 7 |  | 32 |  | -8 |  | 5 |

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| Supplementary Table S1. Differences in mortality rates from all causes and from leading causes of deaths (except Covid-19) per 100,000 person-years in each semester of 2020 compared to the same semester of 2017-2019 by sex, age and educational level. |
| Semester of the year |  | First semester |  | Second semester |
| Sex |  | Women |  | Men |  | Women |  | Men |
| Education level |  | Low |  | Medium |  | High |  | Low |  | Medium |  | High |  | Low |  | Medium |  | High |  | Low |  | Medium |  | High |
| *Age group and cause of death (code ICD-10)* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **≥75 yr** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All causes  |  | 850 |  | 1082 |  | 1278 |  | 1279 |  | 1509 |  | 1524 |  | 628 |  | 537 |  | 513 |  | 954 |  | 876 |  | 917 |
| All causes except COVID-19 |  | -344 |  | -137 |  | 9 |  | -546 |  | -429 |  | -475 |  | -85 |  | -125 |  | -115 |  | -233 |  | -300 |  | -189 |
| Cancer (C00-C97) |  | -18 |  | -10 |  | 7 |  | -52 |  | -53 |  | -98 |  | -17 |  | -7 |  | 36 |  | -78 |  | -67 |  | -40 |
| Diabetes (E10-E14) |  | 14 |  | 22 |  | 10 |  | 24 |  | 18 |  | 2 |  | 15 |  | 43 |  | 20 |  | 25 |  | 25 |  | 43 |
| Alzheimer disease (G30) |  | 8 |  | 35 |  | 51 |  | -5 |  | 9 |  | 8 |  | -1 |  | 9 |  | 17 |  | -10 |  | 10 |  | -3 |
| Cardiovascular diseases (I00-I99) |  | -157 |  | -80 |  | -4 |  | -134 |  | -135 |  | -132 |  | 5 |  | -32 |  | -72 |  | 6 |  | -23 |  | -86 |
|  Diseases of heart (I00-I09,I11, I13, I20-I51) |  | -134 |  | -92 |  | -53 |  | -10 |  | -14 |  | -9 |  | -128 |  | -100 |  | -66 |  | 8 |  | -28 |  | -59 |
|  Hypertension (I10, I12, I15) |  | 18 |  | 17 |  | 20 |  | 29 |  | 16 |  | -15 |  | 19 |  | 6 |  | -13 |  | 25 |  | 8 |  | 3 |
|  Cerebrovascular diseases (I60-I69) |  | -37 |  | -2 |  | 25 |  | -15 |  | -30 |  | -40 |  | -15 |  | -31 |  | -31 |  | -28 |  | -9 |  | -22 |
| Respiratory diseases (J00-J99) |  | -173 |  | -129 |  | -59 |  | -285 |  | -238 |  | -204 |  | -141 |  | -102 |  | -109 |  | -204 |  | -152 |  | -98 |
|  Influenza and pneumonia (J10-J18) |  | -54 |  | -44 |  | -31 |  | -24 |  | -20 |  | -17 |  | -58 |  | -54 |  | -46 |  | -33 |  | -33 |  | -16 |
|  Chronic lower respiratory diseases (J40-J47) |  | -14 |  | -8 |  | -13 |  | -18 |  | -2 |  | -14 |  | -108 |  | -76 |  | -58 |  | -79 |  | -44 |  | -6 |
| Digestive diseases (K00-K93) |  | -13 |  | -1 |  | 20 |  | -27 |  | -21 |  | -39 |  | -2 |  | -9 |  | 28 |  | 0 |  | -2 |  | 33 |
| External causes (V01-Y98) |  | -3 |  | -17 |  | -14 |  | -13 |  | -15 |  | -2 |  | -5 |  | -10 |  | 15 |  | 2 |  | -16 |  | -21 |
|  Motor vehicle accidents1 |  | -1 |  | -2 |  | -2 |  | -2 |  | 1 |  | -4 |  | -1 |  | -4 |  | -4 |  | -3 |  | -2 |  | -3 |
|  Drug overdose deaths (X40-X44) |  | 1 |  | 0 |  | 1 |  | 0 |  | -1 |  | -2 |  | -2 |  | -2 |  | -2 |  | -1 |  | -1 |  | -1 |
|  Suicide (X60-X84+Y87.0) |  | 1 |  | -2 |  | -2 |  | 0 |  | -1 |  | 5 |  | 2 |  | 6 |  | -5 |  | 5 |  | 3 |  | 2 |
| All other causes except COVID-19 |   | 20 |   | 98 |   | 60 |   | -34 |   | 34 |   | 0 |   | 76 |   | 36 |   | -13 |   | 40 |   | -40 |   | 22 |
| ICD-10: International Classification of Diseases, 10th revision |
| 1. V02-V04+V09.0+V09.2+V12-V14+V19.0-V19.2+V19.4-V19.6+V20-V79+V80.3-V80.5+V81.0-V81.1+V82.0-V82.1+V83-V86+V87.0-V87.8+V88.8-V88.9+V89.0-V89.2 |