

Appendix table 4. Mortality rate ratio and 95% confidence interval for the leading causes of death^a.

| Cause (ICD-10 code ^b), age group and educational level | Pre-pandemic period ¹ (2017-2019) | | 1 st wave 2020 | | 2 nd wave 2020 | | 3 rd & 4 th waves 2021 | | 5 th & 6 th waves 2021 | |
|--|--|--|---------------------------|--------|---------------------------|--------|--|--------|--|--------|
| | Rate ratio | | Rate ratio | 95% CI | Rate ratio | 95% CI | Rate ratio | 95% CI | Rate ratio | 95% CI |
| | | | | | | | | | | |
| CHRONIC LOWER RESPIRATORY DISEASE (J40-J47) | | | | | | | | | | |
| 25-64 yrs | | | | | | | | | | |
| Low | 1.00 | | 1.04 (0.84 , 1.27) | | 1.04 (0.82 , 1.33) | | 0.90 (0.72 , 1.12) | | 1.17 (0.93 , 1.48) | |
| Medium | 1.00 | | 0.95 (0.84 , 1.08) | | 0.98 (0.84 , 1.13) | | 0.77 (0.67 , 0.89) | | 1.23 (1.08 , 1.42) | |
| High | 1.00 | | 1.00 (0.75 , 1.35) | | 0.98 (0.72 , 1.36) | | 0.66 (0.47 , 0.92) | | 0.99 (0.73 , 1.36) | |
| 65-74 yrs | | | | | | | | | | |
| Low | 1.00 | | 0.83 (0.75 , 0.93) | | 0.82 (0.72 , 0.93) | | 0.59 (0.52 , 0.67) | | 1.02 (0.90 , 1.15) | |
| Medium | 1.00 | | 0.90 (0.82 , 0.99) | | 0.93 (0.83 , 1.04) | | 0.68 (0.61 , 0.75) | | 1.06 (0.95 , 1.18) | |
| High | 1.00 | | 0.89 (0.73 , 1.10) | | 0.94 (0.76 , 1.17) | | 0.71 (0.57 , 0.88) | | 0.84 (0.67 , 1.05) | |
| ≥75 yrs | | | | | | | | | | |
| Low | 1.00 | | 0.84 (0.81 , 0.87) | | 0.80 (0.77 , 0.84) | | 0.59 (0.57 , 0.61) | | 0.93 (0.89 , 0.97) | |
| Medium | 1.00 | | 0.85 (0.80 , 0.91) | | 0.90 (0.84 , 0.97) | | 0.63 (0.59 , 0.67) | | 0.94 (0.88 , 1.01) | |
| High | 1.00 | | 0.83 (0.74 , 0.93) | | 0.94 (0.83 , 1.07) | | 0.60 (0.53 , 0.68) | | 0.84 (0.74 , 0.96) | |
| UNINTENTIONAL INJURY (V01-X59, Y85-Y86) | | | | | | | | | | |
| 25-64 yrs | | | | | | | | | | |
| Low | 1.00 | | 1.25 (1.07 , 1.45) | | 1.22 (1.05 , 1.42) | | 1.30 (1.12 , 1.52) | | 1.20 (1.03 , 1.40) | |
| Medium | 1.00 | | 1.09 (1.01 , 1.17) | | 1.12 (1.05 , 1.20) | | 1.15 (1.07 , 1.23) | | 1.13 (1.05 , 1.21) | |
| High | 1.00 | | 0.93 (0.81 , 1.07) | | 1.02 (0.90 , 1.15) | | 0.98 (0.86 , 1.13) | | 1.01 (0.89 , 1.14) | |
| 65-74 yrs | | | | | | | | | | |
| Low | 1.00 | | 0.96 (0.82 , 1.13) | | 0.97 (0.84 , 1.13) | | 0.98 (0.84 , 1.16) | | 1.06 (0.91 , 1.23) | |
| Medium | 1.00 | | 0.87 (0.76 , 1.01) | | 1.07 (0.94 , 1.23) | | 0.99 (0.86 , 1.13) | | 1.12 (0.99 , 1.27) | |
| High | 1.00 | | 0.93 (0.72 , 1.21) | | 0.88 (0.68 , 1.13) | | 0.95 (0.73 , 1.22) | | 0.87 (0.68 , 1.12) | |
| ≥75 yrs | | | | | | | | | | |
| Low | 1.00 | | 0.97 (0.92 , 1.01) | | 0.99 (0.95 , 1.04) | | 0.96 (0.91 , 1.00) | | 1.06 (1.01 , 1.11) | |
| Medium | 1.00 | | 0.87 (0.80 , 0.95) | | 0.91 (0.83 , 0.99) | | 0.94 (0.86 , 1.02) | | 1.00 (0.92 , 1.08) | |
| High | 1.00 | | 0.97 (0.83 , 1.12) | | 0.95 (0.82 , 1.10) | | 1.04 (0.90 , 1.19) | | 1.25 (1.09 , 1.42) | |
| DIABETES (E10-E14) | | | | | | | | | | |
| 25-64 yrs | | | | | | | | | | |
| Low | 1.00 | | 0.94 (0.71 , 1.25) | | 1.48 (1.14 , 1.92) | | 1.21 (0.93 , 1.57) | | 1.26 (0.95 , 1.68) | |
| Medium | 1.00 | | 0.97 (0.82 , 1.15) | | 1.32 (1.11 , 1.55) | | 1.04 (0.88 , 1.23) | | 1.26 (1.06 , 1.49) | |
| High | 1.00 | | 1.08 (0.76 , 1.52) | | 0.97 (0.65 , 1.46) | | 0.84 (0.58 , 1.22) | | 1.23 (0.85 , 1.77) | |
| 65-74 yrs | | | | | | | | | | |
| Low | 1.00 | | 1.13 (0.99 , 1.30) | | 1.08 (0.93 , 1.26) | | 1.17 (1.01 , 1.35) | | 1.07 (0.92 , 1.25) | |
| Medium | 1.00 | | 1.17 (1.02 , 1.34) | | 1.12 (0.97 , 1.29) | | 1.14 (0.99 , 1.31) | | 1.09 (0.94 , 1.26) | |
| High | 1.00 | | 1.12 (0.84 , 1.48) | | 1.55 (1.15 , 2.10) | | 1.01 (0.76 , 1.35) | | 1.25 (0.91 , 1.71) | |
| ≥75 yrs | | | | | | | | | | |
| Low | 1.00 | | 1.07 (1.03 , 1.12) | | 1.16 (1.11 , 1.21) | | 1.04 (1.00 , 1.08) | | 1.16 (1.11 , 1.20) | |
| Medium | 1.00 | | 1.23 (1.14 , 1.33) | | 1.18 (1.09 , 1.28) | | 1.05 (0.97 , 1.14) | | 1.13 (1.04 , 1.22) | |
| High | 1.00 | | 1.13 (0.98 , 1.32) | | 1.26 (1.08 , 1.46) | | 0.85 (0.72 , 1.00) | | 0.98 (0.84 , 1.14) | |

a. The reference for the first wave and for the third and fourth waves has been the average mortality rate during the first half of the years 2017-2019. The reference for the second and for the fifth and sixth waves has been the average mortality rate during the second half of the years 2017-2019.

b. ICD-10. International Classification of Disease, 10th revision