

Appendix table 3. Mortality rate ratio and 95% confidence interval for the leading causes of death<sup>a</sup>.

Cause (ICD-10 code <sup>b</sup> ), age group and educational level	Pre-pandemic period <sup>1</sup> (2017-2019)								
	1 <sup>st</sup> wave 2020		2 <sup>nd</sup> wave 2020		3 <sup>rd</sup> & 4 <sup>th</sup> waves 2021		5 <sup>th</sup> & 6 <sup>th</sup> waves 2021		
	Rate ratio	Rate ratio	95% CI	Rate ratio	95% CI	Rate ratio	95% CI	Rate ratio	95% CI
<b>CANCER (C00-C97)</b>									
<b>25-64 yrs</b>									
Low	1.00	0.99	( 0.94 , 1.05 )	0.95	( 0.90 , 1.01 )	0.97	( 0.92 , 1.03 )	0.93	( 0.88 , 0.99 )
Medium	1.00	0.95	( 0.92 , 0.97 )	0.95	( 0.93 , 0.98 )	0.92	( 0.90 , 0.95 )	0.96	( 0.94 , 0.99 )
High	1.00	0.94	( 0.90 , 0.98 )	0.89	( 0.86 , 0.93 )	0.87	( 0.84 , 0.91 )	0.87	( 0.84 , 0.91 )
<b>65-74 yrs</b>									
Low	1.00	0.92	( 0.89 , 0.95 )	0.95	( 0.91 , 0.98 )	0.91	( 0.88 , 0.94 )	0.96	( 0.92 , 0.99 )
Medium	1.00	0.98	( 0.95 , 1.00 )	1.00	( 0.97 , 1.03 )	0.98	( 0.95 , 1.01 )	1.03	( 1.00 , 1.06 )
High	1.00	1.00	( 0.95 , 1.05 )	0.95	( 0.90 , 1.00 )	0.98	( 0.94 , 1.03 )	0.95	( 0.90 , 0.99 )
<b>≥75 yrs</b>									
Low	1.00	0.97	( 0.95 , 0.99 )	0.97	( 0.95 , 0.98 )	0.97	( 0.95 , 0.98 )	1.01	( 0.99 , 1.03 )
Medium	1.00	0.98	( 0.95 , 1.00 )	0.98	( 0.95 , 1.00 )	0.95	( 0.92 , 0.97 )	1.01	( 0.99 , 1.04 )
High	1.00	0.96	( 0.92 , 1.01 )	0.99	( 0.95 , 1.04 )	0.93	( 0.89 , 0.97 )	1.01	( 0.97 , 1.05 )
<b>HEART DISEASE (I00-I09, I20-I51, I11-I13)</b>									
<b>25-64 yrs</b>									
Low	1.00	1.04	( 0.95 , 1.14 )	1.00	( 0.98 , 1.01 )	1.07	( 0.98 , 1.17 )	1.04	( 1.02 , 1.05 )
Medium	1.00	0.99	( 0.94 , 1.03 )	0.99	( 0.96 , 1.02 )	1.08	( 1.04 , 1.13 )	1.01	( 0.99 , 1.04 )
High	1.00	1.07	( 0.98 , 1.16 )	0.97	( 0.92 , 1.02 )	1.01	( 0.93 , 1.10 )	0.97	( 0.93 , 1.02 )
<b>65-74 yrs</b>									
Low	1.00	0.97	( 0.92 , 1.03 )	1.03	( 0.97 , 1.10 )	0.93	( 0.88 , 0.99 )	1.11	( 1.04 , 1.17 )
Medium	1.00	0.95	( 0.90 , 1.00 )	1.07	( 1.01 , 1.12 )	0.98	( 0.93 , 1.03 )	1.08	( 1.02 , 1.13 )
High	1.00	0.99	( 0.91 , 1.09 )	0.96	( 0.87 , 1.05 )	0.94	( 0.86 , 1.03 )	0.97	( 0.89 , 1.07 )
<b>≥75 yrs</b>									
Low	1.00	0.91	( 0.90 , 0.93 )	1.00	( 0.98 , 1.01 )	0.89	( 0.88 , 0.91 )	1.04	( 1.02 , 1.05 )
Medium	1.00	0.93	( 0.90 , 0.95 )	0.99	( 0.96 , 1.02 )	0.90	( 0.88 , 0.93 )	1.01	( 0.99 , 1.04 )
High	1.00	0.95	( 0.91 , 1.00 )	0.97	( 0.92 , 1.02 )	0.87	( 0.83 , 0.91 )	0.97	( 0.93 , 1.02 )
<b>CEREBROVASCULAR DISEASE (I60-I69)</b>									
<b>25-64 yrs</b>									
Low	1.00	1.04	( 0.87 , 1.24 )	1.16	( 0.97 , 1.37 )	1.13	( 0.95 , 1.34 )	1.10	( 0.92 , 1.32 )
Medium	1.00	1.01	( 0.92 , 1.10 )	1.05	( 0.96 , 1.15 )	1.02	( 0.93 , 1.12 )	0.96	( 0.87 , 1.06 )
High	1.00	0.88	( 0.74 , 1.04 )	1.04	( 0.89 , 1.23 )	0.83	( 0.70 , 0.98 )	0.90	( 0.77 , 1.07 )
<b>65-74 yrs</b>									
Low	1.00	0.90	( 0.81 , 0.99 )	1.12	( 1.01 , 1.23 )	1.08	( 0.98 , 1.20 )	1.04	( 0.93 , 1.15 )
Medium	1.00	0.94	( 0.86 , 1.03 )	1.08	( 0.99 , 1.18 )	1.01	( 0.92 , 1.10 )	1.00	( 0.91 , 1.09 )
High	1.00	0.78	( 0.65 , 0.94 )	1.09	( 0.92 , 1.29 )	0.83	( 0.70 , 0.98 )	1.05	( 0.88 , 1.24 )
<b>≥75 yrs</b>									
Low	1.00	0.94	( 0.91 , 0.96 )	0.95	( 0.93 , 0.98 )	0.87	( 0.84 , 0.89 )	0.95	( 0.92 , 0.97 )
Medium	1.00	0.97	( 0.92 , 1.02 )	0.95	( 0.90 , 0.99 )	0.89	( 0.85 , 0.94 )	0.97	( 0.92 , 1.01 )
High	1.00	0.98	( 0.90 , 1.07 )	0.91	( 0.83 , 0.99 )	0.83	( 0.75 , 0.90 )	0.97	( 0.89 , 1.05 )
<b>ALZHEIMER DISEASE (G30)</b>									
<b>25-64 yrs</b>									
Low	1.00	1.11	( 0.61 , 2.01 )	0.84	( 0.44 , 1.62 )	0.92	( 0.48 , 1.78 )	1.06	( 0.58 , 1.96 )
Medium	1.00	0.99	( 0.69 , 1.44 )	1.15	( 0.78 , 1.69 )	0.93	( 0.63 , 1.35 )	0.97	( 0.65 , 1.46 )
High	1.00	1.71	( 0.82 , 3.55 )	1.40	( 0.79 , 2.49 )	1.05	( 0.46 , 2.42 )	0.73	( 0.36 , 1.48 )
<b>65-74 yrs</b>									
Low	1.00	0.94	( 0.78 , 1.13 )	0.92	( 0.76 , 1.12 )	0.90	( 0.74 , 1.10 )	0.98	( 0.81 , 1.19 )
Medium	1.00	1.16	( 0.97 , 1.37 )	1.10	( 0.93 , 1.30 )	0.95	( 0.80 , 1.14 )	0.96	( 0.81 , 1.15 )
High	1.00	1.08	( 0.78 , 1.48 )	1.13	( 0.82 , 1.57 )	0.88	( 0.63 , 1.23 )	1.11	( 0.81 , 1.53 )
<b>≥75 yrs</b>									
Low	1.00	1.01	( 0.98 , 1.04 )	0.97	( 0.94 , 1.00 )	0.77	( 0.75 , 0.80 )	0.92	( 0.89 , 0.95 )
Medium	1.00	1.08	( 1.02 , 1.15 )	1.04	( 0.98 , 1.11 )	0.76	( 0.71 , 0.81 )	0.94	( 0.89 , 1.00 )
High	1.00	1.14	( 1.03 , 1.27 )	1.02	( 0.91 , 1.14 )	0.76	( 0.68 , 0.85 )	0.97	( 0.87 , 1.08 )

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