

## Supplementary Tables:

**Supplementary Table 1.** Period life table, 2017, as used in the 2020 trustees report.

| Exact age | Male                |                   |                 | Female              |                   |                 |
|-----------|---------------------|-------------------|-----------------|---------------------|-------------------|-----------------|
|           | Death probability a | Number of lives b | Life expectancy | Death probability a | Number of lives b | Life expectancy |
| 0         | 0.006304            | 100000            | 75.97           | 0.005229            | 100000            | 80.96           |
| 1         | 0.000426            | 99370             | 75.45           | 0.000342            | 99477             | 80.39           |
| 2         | 0.00029             | 99327             | 74.48           | 0.000209            | 99443             | 79.42           |
| 3         | 0.000229            | 99298             | 73.5            | 0.000162            | 99422             | 78.43           |
| 4         | 0.000162            | 99276             | 72.52           | 0.000143            | 99406             | 77.45           |
| 5         | 0.000146            | 99260             | 71.53           | 0.000125            | 99392             | 76.46           |
| 6         | 0.000136            | 99245             | 70.54           | 0.000113            | 99379             | 75.47           |
| 7         | 0.000127            | 99232             | 69.55           | 0.000104            | 99368             | 74.47           |
| 8         | 0.000115            | 99219             | 68.56           | 0.000097            | 99358             | 73.48           |
| 9         | 0.000103            | 99208             | 67.57           | 0.000093            | 99348             | 72.49           |
| 10        | 0.000097            | 99197             | 66.57           | 0.000092            | 99339             | 71.5            |
| 11        | 0.000109            | 99188             | 65.58           | 0.000098            | 99330             | 70.5            |
| 12        | 0.000151            | 99177             | 64.59           | 0.000113            | 99320             | 69.51           |
| 13        | 0.000232            | 99162             | 63.6            | 0.000138            | 99309             | 68.52           |
| 14        | 0.000343            | 99139             | 62.61           | 0.000172            | 99295             | 67.53           |
| 15        | 0.000465            | 99105             | 61.63           | 0.000211            | 99278             | 66.54           |
| 16        | 0.000588            | 99059             | 60.66           | 0.000251            | 99257             | 65.55           |
| 17        | 0.00072             | 99001             | 59.7            | 0.000293            | 99232             | 64.57           |
| 18        | 0.000858            | 98929             | 58.74           | 0.000336            | 99203             | 63.59           |
| 19        | 0.000999            | 98845             | 57.79           | 0.000379            | 99170             | 62.61           |
| 20        | 0.001146            | 98746             | 56.85           | 0.000425            | 99132             | 61.63           |
| 21        | 0.001288            | 98633             | 55.91           | 0.000472            | 99090             | 60.66           |
| 22        | 0.001407            | 98506             | 54.98           | 0.000515            | 99044             | 59.69           |
| 23        | 0.001494            | 98367             | 54.06           | 0.000551            | 98993             | 58.72           |
| 24        | 0.001556            | 98220             | 53.14           | 0.000582            | 98938             | 57.75           |
| 25        | 0.00161             | 98067             | 52.22           | 0.000612            | 98880             | 56.78           |
| 26        | 0.001665            | 97910             | 51.31           | 0.000646            | 98820             | 55.82           |
| 27        | 0.001717            | 97746             | 50.39           | 0.000684            | 98756             | 54.85           |
| 28        | 0.001767            | 97579             | 49.48           | 0.000729            | 98689             | 53.89           |
| 29        | 0.001817            | 97406             | 48.56           | 0.000779            | 98617             | 52.93           |
| 30        | 0.001865            | 97229             | 47.65           | 0.000833            | 98540             | 51.97           |
| 31        | 0.001911            | 97048             | 46.74           | 0.000887            | 98458             | 51.01           |
| 32        | 0.00196             | 96862             | 45.83           | 0.000939            | 98370             | 50.06           |
| 33        | 0.002014            | 96672             | 44.92           | 0.000988            | 98278             | 49.1            |
| 34        | 0.002071            | 96478             | 44.01           | 0.001034            | 98181             | 48.15           |
| 35        | 0.002138            | 96278             | 43.1            | 0.001085            | 98079             | 47.2            |
| 36        | 0.002211            | 96072             | 42.19           | 0.001143            | 97973             | 46.25           |
| 37        | 0.002279            | 95860             | 41.28           | 0.001205            | 97861             | 45.3            |
| 38        | 0.002342            | 95641             | 40.37           | 0.001271            | 97743             | 44.36           |

|    |          |       |       |          |       |       |
|----|----------|-------|-------|----------|-------|-------|
| 39 | 0.002405 | 95417 | 39.47 | 0.001345 | 97619 | 43.41 |
| 40 | 0.002482 | 95188 | 38.56 | 0.001429 | 97488 | 42.47 |
| 41 | 0.002583 | 94951 | 37.65 | 0.001524 | 97348 | 41.53 |
| 42 | 0.00271  | 94706 | 36.75 | 0.00163  | 97200 | 40.59 |
| 43 | 0.00287  | 94450 | 35.85 | 0.001748 | 97042 | 39.66 |
| 44 | 0.003064 | 94178 | 34.95 | 0.001881 | 96872 | 38.73 |
| 45 | 0.003285 | 93890 | 34.06 | 0.002029 | 96690 | 37.8  |
| 46 | 0.003538 | 93581 | 33.17 | 0.002195 | 96494 | 36.88 |
| 47 | 0.003834 | 93250 | 32.28 | 0.002386 | 96282 | 35.96 |
| 48 | 0.004178 | 92893 | 31.41 | 0.002605 | 96052 | 35.04 |
| 49 | 0.004569 | 92505 | 30.54 | 0.002851 | 95802 | 34.13 |
| 50 | 0.004997 | 92082 | 29.67 | 0.003118 | 95529 | 33.23 |
| 51 | 0.005462 | 91622 | 28.82 | 0.003403 | 95231 | 32.33 |
| 52 | 0.005971 | 91122 | 27.98 | 0.003714 | 94907 | 31.44 |
| 53 | 0.006526 | 90577 | 27.14 | 0.004052 | 94554 | 30.55 |
| 54 | 0.007125 | 89986 | 26.32 | 0.004415 | 94171 | 29.68 |
| 55 | 0.007766 | 89345 | 25.5  | 0.004813 | 93755 | 28.81 |
| 56 | 0.008445 | 88651 | 24.7  | 0.005233 | 93304 | 27.94 |
| 57 | 0.009156 | 87903 | 23.9  | 0.005647 | 92816 | 27.09 |
| 58 | 0.009897 | 87098 | 23.12 | 0.006043 | 92292 | 26.24 |
| 59 | 0.010671 | 86236 | 22.34 | 0.006441 | 91734 | 25.39 |
| 60 | 0.011519 | 85316 | 21.58 | 0.006886 | 91143 | 24.56 |
| 61 | 0.012419 | 84333 | 20.83 | 0.007391 | 90515 | 23.72 |
| 62 | 0.013307 | 83286 | 20.08 | 0.007931 | 89846 | 22.9  |
| 63 | 0.014164 | 82177 | 19.35 | 0.008508 | 89134 | 22.07 |
| 64 | 0.015032 | 81013 | 18.62 | 0.009142 | 88375 | 21.26 |
| 65 | 0.016013 | 79795 | 17.89 | 0.009874 | 87568 | 20.45 |
| 66 | 0.017138 | 78518 | 17.18 | 0.010717 | 86703 | 19.65 |
| 67 | 0.018362 | 77172 | 16.47 | 0.01166  | 85774 | 18.86 |
| 68 | 0.019693 | 75755 | 15.77 | 0.012711 | 84774 | 18.07 |
| 69 | 0.021174 | 74263 | 15.07 | 0.013894 | 83696 | 17.3  |
| 70 | 0.022889 | 72691 | 14.39 | 0.015285 | 82533 | 16.54 |
| 71 | 0.024869 | 71027 | 13.71 | 0.016878 | 81272 | 15.79 |
| 72 | 0.027095 | 69261 | 13.05 | 0.018607 | 79900 | 15.05 |
| 73 | 0.029587 | 67384 | 12.4  | 0.020466 | 78413 | 14.32 |
| 74 | 0.032394 | 65390 | 11.76 | 0.022522 | 76809 | 13.61 |
| 75 | 0.035668 | 63272 | 11.14 | 0.024929 | 75079 | 12.92 |
| 76 | 0.039396 | 61015 | 10.53 | 0.027729 | 73207 | 12.23 |
| 77 | 0.043453 | 58611 | 9.94  | 0.030855 | 71177 | 11.57 |
| 78 | 0.047826 | 56065 | 9.37  | 0.034321 | 68981 | 10.92 |
| 79 | 0.052649 | 53383 | 8.82  | 0.038211 | 66613 | 10.29 |
| 80 | 0.058206 | 50573 | 8.28  | 0.042771 | 64068 | 9.68  |
| 81 | 0.064581 | 47629 | 7.76  | 0.047992 | 61328 | 9.09  |
| 82 | 0.071657 | 44553 | 7.26  | 0.053678 | 58385 | 8.52  |
| 83 | 0.079465 | 41361 | 6.79  | 0.05981  | 55251 | 7.98  |

|     |          |       |      |          |       |      |
|-----|----------|-------|------|----------|-------|------|
| 84  | 0.088141 | 38074 | 6.33 | 0.066584 | 51946 | 7.45 |
| 85  | 0.097854 | 34718 | 5.89 | 0.074258 | 48487 | 6.95 |
| 86  | 0.108747 | 31321 | 5.48 | 0.083053 | 44887 | 6.47 |
| 87  | 0.120919 | 27915 | 5.08 | 0.093123 | 41159 | 6.01 |
| 88  | 0.134425 | 24539 | 4.71 | 0.10454  | 37326 | 5.57 |
| 89  | 0.149273 | 21241 | 4.37 | 0.117305 | 33424 | 5.16 |
| 90  | 0.165452 | 18070 | 4.05 | 0.131392 | 29503 | 4.78 |
| 91  | 0.182935 | 15080 | 3.75 | 0.146753 | 25627 | 4.43 |
| 92  | 0.201679 | 12322 | 3.48 | 0.163331 | 21866 | 4.11 |
| 93  | 0.221637 | 9837  | 3.23 | 0.181064 | 18294 | 3.81 |
| 94  | 0.242747 | 7656  | 3.01 | 0.199886 | 14982 | 3.55 |
| 95  | 0.263672 | 5798  | 2.81 | 0.218908 | 11987 | 3.31 |
| 96  | 0.284014 | 4269  | 2.64 | 0.237815 | 9363  | 3.09 |
| 97  | 0.303355 | 3057  | 2.49 | 0.256265 | 7136  | 2.9  |
| 98  | 0.321268 | 2129  | 2.36 | 0.273894 | 5308  | 2.73 |
| 99  | 0.337332 | 1445  | 2.24 | 0.290328 | 3854  | 2.58 |
| 100 | 0.354198 | 958   | 2.12 | 0.307747 | 2735  | 2.42 |
| 101 | 0.371908 | 619   | 2.01 | 0.326212 | 1893  | 2.28 |
| 102 | 0.390503 | 388   | 1.9  | 0.345785 | 1276  | 2.14 |
| 103 | 0.410029 | 237   | 1.8  | 0.366532 | 835   | 2.01 |
| 104 | 0.43053  | 140   | 1.7  | 0.388524 | 529   | 1.88 |
| 105 | 0.452057 | 80    | 1.6  | 0.411835 | 323   | 1.76 |
| 106 | 0.474659 | 44    | 1.51 | 0.436546 | 190   | 1.65 |
| 107 | 0.498392 | 23    | 1.42 | 0.462738 | 107   | 1.54 |
| 108 | 0.523312 | 11    | 1.34 | 0.490503 | 58    | 1.44 |
| 109 | 0.549478 | 5     | 1.26 | 0.519933 | 29    | 1.34 |
| 110 | 0.576951 | 2     | 1.18 | 0.551129 | 14    | 1.24 |
| 111 | 0.605799 | 1     | 1.1  | 0.584196 | 6     | 1.15 |
| 112 | 0.636089 | 0     | 1.03 | 0.619248 | 3     | 1.06 |
| 113 | 0.667893 | 0     | 0.96 | 0.656403 | 1     | 0.98 |
| 114 | 0.701288 | 0     | 0.9  | 0.695787 | 0     | 0.91 |
| 115 | 0.736353 | 0     | 0.84 | 0.736353 | 0     | 0.84 |
| 116 | 0.77317  | 0     | 0.78 | 0.77317  | 0     | 0.78 |
| 117 | 0.811829 | 0     | 0.72 | 0.811829 | 0     | 0.72 |
| 118 | 0.85242  | 0     | 0.66 | 0.85242  | 0     | 0.66 |
| 119 | 0.895041 | 0     | 0.61 | 0.895041 | 0     | 0.61 |

**Note:** 'a' Probability of dying within one year. 'b' Number of survivors out of 100,000 born alive. The period life expectancy at a given age for 2017 represents the average number of years of life remaining if a group of persons at that age were to experience the mortality rates for 2017 over the course of their remaining life.

### Supplementary Table 2:

#### Source:

Center for Disease Control and Prevention (CDC) – <https://www.cdc.gov/coronavirus/2019-ncov/COVID-data/investigations-discovery/hospitalization-death-by-age.html#footnote02> Accessed: 2021.05.02

Risk for COVID-19 Infection, Hospitalization, and Death by Age Group (Updated Feb. 18, 2021)

Rate ratios compared to 5-17 year olds<sup>1</sup>

**Supplementary Table 2.** Risk for COVID-19 infection, hospitalization and death by age group.

| Age Group  | 0-4 y | 5-17 y | 18-29 y | 30-39 y | 40-49 y | 50-64 y | 65-74 y | 75-84 y | 85+  |
|--|-------|--------|---------|---------|---------|---------|---------|---------|------|
| <b>Cases</b>   | 0.5x  | 0.7x   | Ref     | 1x      | 0.9x    | 0.8x    | 0.6x    | 0.7x    | 0.8x |
| <b>Hospitalization</b>   | 0.7x  | 0.2x   | Ref     | 1.5x    | 1.8x    | 3.1x    | 5.0x    | 9.3x    | 15x  |
| <b>Death</b>   | 0.3x  | 0.1x   | Ref     | 3.5x    | 10x     | 25x     | 60x     | 140x    | 360x |
| <b>Note:</b> All rates are relative to the 18 to 29 years age group (Ref=1x) |       |        |         |         |         |         |         |         |      |

1. Rates are expressed as whole numbers, with values less than 10 rounded to the nearest integer, two-digit numbers rounded to nearest multiple of five, and numbers greater than 100 rounded to two significant digits.
2. Includes all cases reported by state and territorial jurisdictions (accessed 3/22/2021). The denominators used to calculate rates are based on the 2019 Vintage population, <https://www.census.gov/newsroom/press-releases/2019/popest-nation.html>external icon.
3. Includes all hospitalizations reported through COVID-NET (<https://www.cdc.gov/coronavirus/2019-ncov/COVID-data/COVID-net/purpose-methods.html>, from 3/01/2020 through 3/13/2021, accessed on 3/23/2021). Rates are standardized to the 2020 US standard COVID-NET catchment population.
4. Includes all deaths in National Center for Health Statistics (NCHS) provisional death counts (<https://data.cdc.gov/NCHS/Provisional-COVID-19-Death-Counts-by-Sex-Age-and-S/9bhg-hcku>, accessed on 3/22/2021).