# Age, sex and status at 28 days for hospital in patients with proven SARS-CoV-2 infection.

## Ewen Harrison, Annemarie Docherty, Calum Semple, ISARIC4 / CO-CIN

Age, sex and status at 28 days for hospital in patients with proven SARS-CoV-2 infection are presented in Figure 1 and Table 1.

Table 2 provides the hospital case fatality rate by 5 year age band and sex, not adjusted for any other parameter.

The Figure is dynamic and for the period 1st August 2020 to 04:30 am 25th January 2021. This is not cleaned data.

The Tables are for the period 1st August 2020 to 14th January 2020, and is cleaned data, but not source verified.

As the data are source verified, where small numbers of outcomes are reported (such as death in children) these data should not be relied upon.

For noting:

1. 30% of SARS-CoV-2 positive cases were in people under 60y old.
2. 30% of SARS-CoV-2 deaths in hospital were in people under 75y old.
3. 34% of people age under 65y old remain in hospital 28d after admission.
4. While hospital case fatality rises with age, and more so with advancing age, at all ages the majority of people admitted to hospital will survive.

Chart, bar chart

Description automatically generated

Figure 1. Age, sex and status at 28days for hospital in-patients with proven SARS-CoV-2 infection.

Table 1 Age, sex and status at 28 days for hospital in-patients with proven SARS-CoV-2 infection, in 5 year age bands with cumulative percentages.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sex** | **Age**  **5y bands** | **Discharged (Dc)** | **Dc%** | **On-going care (OC)** | **OC%** | **OC cum descending** | **All sex OC cum descending** | **Died** | **Died%** | **Death cum descending** | **All sex Death cum Ascending** | **All sex Death cum Descending** | **All Cases** | **All Cases%** | **Cases cum% ascending** | **Cases cum% descending** | **All Cases cum Ascending** | **All Cases cum Descending** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Male** | **0-4** | 197 | 1.5 | 59 | 0.8 | 100 | 100 | 1 | 0 | 100 | 0 | 100 | 257 | 1.0 | 1 | 100 | 1 | 100 |
|  | **5-9** | 40 | 0.3 | 16 | 0.2 | 99 | 100 | 0 | 0 | 100 | 0 | 100 | 56 | 0.2 | 1 | 99 | 1 | 99 |
|  | **10-14** | 86 | 0.7 | 25 | 0.3 | 99 | 99 | 0 | 0 | 100 | 0 | 100 | 111 | 0.4 | 2 | 99 | 2 | 99 |
|  | **15-19** | 104 | 0.8 | 31 | 0.4 | 99 | 99 | 0 | 0 | 100 | 0 | 100 | 135 | 0.5 | 2 | 98 | 2 | 98 |
|  | **20-24** | 142 | 1.1 | 51 | 0.7 | 99 | 99 | 1 | 0 | 100 | 0 | 100 | 194 | 0.8 | 3 | 98 | 4 | 98 |
|  | **25-29** | 188 | 1.4 | 81 | 1.1 | 98 | 98 | 3 | 0.1 | 100 | 0 | 100 | 272 | 1.1 | 4 | 97 | 6 | 96 |
|  | **30-34** | 337 | 2.6 | 122 | 1.6 | 97 | 97 | 4 | 0.1 | 100 | 0 | 100 | 463 | 1.8 | 6 | 96 | 8 | 94 |
|  | **35-39** | 430 | 3.3 | 150 | 2 | 95 | 94 | 9 | 0.2 | 100 | 1 | 100 | 589 | 2.3 | 8 | 94 | 11 | 92 |
|  | **40-44** | 572 | 4.4 | 211 | 2.8 | 93 | 92 | 26 | 0.6 | 100 | 1 | 99 | 809 | 3.2 | 11 | 92 | 14 | 89 |
|  | **45-49** | 834 | 6.3 | 354 | 4.6 | 90 | 90 | 45 | 1 | 99 | 2 | 99 | 1233 | 4.8 | 16 | 89 | 18 | 86 |
|  | **50-54** | 1084 | 8.2 | 435 | 5.7 | 86 | 86 | 71 | 1.5 | 98 | 4 | 98 | 1590 | 6.2 | 22 | 84 | 24 | 82 |
|  | **55-59** | 1247 | 9.5 | 562 | 7.3 | 80 | 80 | 146 | 3.1 | 97 | 6 | 96 | 1955 | 7.7 | 30 | 78 | 31 | 76 |
|  | **60-64** | 1258 | 9.6 | 631 | 8.3 | 73 | 74 | 253 | 5.4 | 93 | 11 | 94 | 2142 | 8.4 | 38 | 70 | 38 | 69 |
|  | **65-69** | 1186 | 9 | 657 | 8.6 | 64 | 67 | 336 | 7.2 | 88 | 18 | 89 | 2179 | 8.6 | 47 | 61 | 46 | 62 |
|  | **70-74** | 1420 | 10.8 | 876 | 11.5 | 56 | 59 | 613 | 13.2 | 81 | 30 | 83 | 2909 | 11.4 | 58 | 53 | 57 | 54 |
|  | **75-79** | 1380 | 10.5 | 1008 | 13.2 | 44 | 48 | 753 | 16.2 | 68 | 45 | 70 | 3141 | 12.3 | 71 | 41 | 68 | 43 |
|  | **80-84** | 1287 | 9.8 | 976 | 12.8 | 31 | 36 | 904 | 19.5 | 51 | 64 | 55 | 3167 | 12.4 | 83 | 29 | 81 | 32 |
|  | **85-89** | 890 | 6.8 | 875 | 11.4 | 18 | 22 | 844 | 18.2 | 32 | 83 | 36 | 2609 | 10.3 | 93 | 17 | 92 | 19 |
|  | **90+** | 463 | 3.5 | 528 | 6.9 | 7 | 9 | 638 | 13.7 | 14 | 100 | 17 | 1629 | 6.4 | 100 | 6 | 100 | 8 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Female** | **0-4** | 147 | 1.2 | 20 | 0.3 | 100 |  | 0 | 0 | 100 |  |  | 167 | 0.8 | 1 | 100 |  |  |
|  | **5-9** | 44 | 0.4 | 14 | 0.2 | 100 |  | 0 | 0 | 100 |  |  | 58 | 0.3 | 1 | 99 |  |  |
|  | **10-14** | 75 | 0.6 | 18 | 0.3 | 100 |  | 0 | 0 | 100 |  |  | 93 | 0.4 | 2 | 99 |  |  |
|  | **15-19** | 185 | 1.5 | 32 | 0.5 | 99 |  | 2 | 0.1 | 100 |  |  | 219 | 1.0 | 3 | 99 |  |  |
|  | **20-24** | 357 | 2.9 | 56 | 0.8 | 99 |  | 2 | 0.1 | 100 |  |  | 415 | 1.9 | 4 | 98 |  |  |
|  | **25-29** | 503 | 4.1 | 113 | 1.7 | 98 |  | 5 | 0.2 | 100 |  |  | 621 | 2.8 | 7 | 96 |  |  |
|  | **30-34** | 611 | 5 | 170 | 2.6 | 96 |  | 3 | 0.1 | 100 |  |  | 784 | 3.6 | 11 | 93 |  |  |
|  | **35-39** | 541 | 4.4 | 170 | 2.6 | 94 |  | 8 | 0.3 | 100 |  |  | 719 | 3.3 | 14 | 89 |  |  |
|  | **40-44** | 474 | 3.9 | 158 | 2.4 | 91 |  | 18 | 0.6 | 99 |  |  | 650 | 3.0 | 17 | 86 |  |  |
|  | **45-49** | 569 | 4.7 | 217 | 3.3 | 89 |  | 27 | 0.9 | 99 |  |  | 813 | 3.7 | 21 | 83 |  |  |
|  | **50-54** | 795 | 6.5 | 322 | 4.9 | 85 |  | 47 | 1.5 | 98 |  |  | 1164 | 5.3 | 26 | 79 |  |  |
|  | **55-59** | 901 | 7.4 | 367 | 5.5 | 81 |  | 77 | 2.5 | 96 |  |  | 1345 | 6.1 | 32 | 74 |  |  |
|  | **60-64** | 840 | 6.9 | 416 | 6.3 | 75 |  | 120 | 3.9 | 94 |  |  | 1376 | 6.3 | 39 | 68 |  |  |
|  | **65-69** | 862 | 7.1 | 444 | 6.7 | 69 |  | 175 | 5.7 | 90 |  |  | 1481 | 6.8 | 45 | 62 |  |  |
|  | **70-74** | 1050 | 8.6 | 678 | 10.2 | 62 |  | 346 | 11.3 | 84 |  |  | 2074 | 9.5 | 55 | 55 |  |  |
|  | **75-79** | 1134 | 9.3 | 771 | 11.6 | 52 |  | 436 | 14.2 | 73 |  |  | 2341 | 10.7 | 66 | 45 |  |  |
|  | **80-84** | 1211 | 9.9 | 951 | 14.4 | 40 |  | 587 | 19.2 | 59 |  |  | 2749 | 12.6 | 78 | 35 |  |  |
|  | **85-89** | 1073 | 8.8 | 932 | 14.1 | 26 |  | 601 | 19.6 | 40 |  |  | 2606 | 11.9 | 90 | 22 |  |  |
|  | **90+** | 834 | 6.8 | 778 | 11.7 | 12 |  | 611 | 19.9 | 20 |  |  | 2223 | 10.2 | 100 | 10 |  |  |

Note that source verification has not been done, and this is particularly important for children age 0-4years.

Table 2 Hospital case fatality rate by age band, not adjusted for any other parameter.

|  |  |  |
| --- | --- | --- |
| Age (years) | Female (%) | Male (%) |
| 0-4 | 0 | 0 |
| 5-9 | 0 | 0 |
| 10-14 | 0 | 0 |
| 15-19 | 1 | 0 |
| 20-24 | 0 | 1 |
| 25-29 | 1 | 1 |
| 30-34 | 0 | 1 |
| 35-39 | 1 | 2 |
| 40-44 | 3 | 3 |
| 45-49 | 3 | 4 |
| 50-54 | 4 | 4 |
| 55-59 | 6 | 7 |
| 60-64 | 9 | 12 |
| 65-69 | 12 | 15 |
| 70-74 | 17 | 21 |
| 75-79 | 19 | 24 |
| 80-84 | 21 | 29 |
| 85-89 | 23 | 32 |
| 90+ | 27 | 39 |

These are the proportions of deaths in SARS-CoV-2 positive hospital cases observed up to 28 days after admission, expressed per hundred cases (%) in each 5 year age band.