



# Hospital onset COVID-19 mortality in Scotland

## 7 March 2020 to 30 June 2022

A management information publication for Scotland

Publication date: 31 August 2022

#### About this release

This release by Antimicrobial Resistance and Healthcare Associated Infection (ARHAI) Scotland, part of NHS National Services Scotland, provides data for COVID-19 hospital onset mortality in Scotland for the period 7 March 2020 to 30 June 2022.

Deaths occurring in hospitalised patients with COVID-19 have been an important measure of patient outcome. Therefore, monitoring mortality in hospital patients and publishing the data has been critical during the pandemic to improve care of patients, inform the development of infection prevention and control measures, shape policy and guide research.

Due to the challenges in interpretation of the available data, this report will be the last hospital onset COVID-19 mortality report published.

## **Main points**

- This report describes patients diagnosed in hospital with COVID-19 who die from all causes within 28 days.
- Overall, nearly a fifth (16.7%) of patients diagnosed in hospital died within 28 days. A fifth of
  patients with a probable or definite hospital onset died within 28 days.
- The difference is due to differences in demographics. Probable or definite hospital onset COVID-19 cases were older. Older cases are likely to be sicker and have more underlying ill health.
- Preventing transmission of SARS-CoV-2 in all settings is critical to reducing morbidity and mortality from COVID-19. Infection prevention and control precautions and early detection and management of cases is vital in efforts to reduce the spread of SARS-CoV-2 in hospital settings.

Table 1: COVID-19 cases who died from all causes within 28 days by onset status in Scotland overall: specimen dates up to 30 June 2022.<sup>1,2,3</sup>

Hospital onset status	Mortality within 28 days (n)	Mortality within 28 days (%)	Total Cases
Non-hospital onset (day 1 or 2 of admission)	3,097	14.4%	21,546
Indeterminate hospital onset (days 3-7)	650	17.0%	3,813
Probable hospital onset (days 8-14)	860	22.0%	3,913
Definite hospital onset (days 15+)	1,886	19.6%	9,634
Total	6,493	16.7%	38,906

- Source of data is Electronic Communication of Surveillance in Scotland (ECOSS) data, the Rapid Admission Preliminary Inpatient Data (RAPID) data or local admission data, and National Records of Scotland (NRS).
- 2. The data used has not been adjusted for potential factors that may affect mortality e.g. severity of COVID-19 disease and patient comorbidities.
- 3. Cases diagnosed in the community (not during an inpatient stay) were excluded from these analyses.

## **Background**

Antimicrobial Resistance and Healthcare Associated Infection (ARHAI) Scotland, part of National Services Scotland works closely with Public Health Scotland to deliver the COVID-19 response. Local and national monitoring in hospital settings is required to reduce COVID-19 infections.

#### Contact

### **Shona Cairns, Consultant Healthcare Scientist**

Antimicrobial Resistance and Healthcare Associated Infections (ARHAI) Scotland NHS National Services Scotland 0141 300 1922

NSS.ARHAldatateam@nhs.scot

#### **Further Information**

Find out more in the full report and on the COVID-19 pages on the PHS website.

Information on the epidemiology of COVID-19 in healthcare settings and COVID-19 hospital onset cases is also produced by ARHAI Scotland.

As a result of the challenges in interpretation of all-cause mortality, this report will be the last publication of hospital onset COVID-19 mortality.