

Deaths involving coronavirus (COVID-19) in Scotland

Week 22 (31 May 2021 to 06 June 2021)



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This statistical report includes provisional statistics on the number of deaths associated with coronavirus (COVID-19) and the total number of deaths registered in Scotland, for week 22 of 2021

Key Findings

Deaths involving COVID-19, weekly registrations

- As at the 6th of June, there have been a total of 10,130 deaths registered in Scotland where the novel coronavirus (COVID-19) was mentioned on the death certificate. In the latest week there were 8 deaths, no change from the previous week.
- Of deaths involving COVID-19 in the latest week:
 - Four were female, four were male.
 - One death was aged under 65, two aged 65-74 and there were five deaths in people ages 75 or over.
 - There were three deaths in South Ayrshire, two deaths in both North Lanarkshire and Glasgow City and 1 death in Scottish Borders.
 - Seven deaths were in hospitals and one death was in a care home.

Deaths from all causes, weekly registrations

- The total number of deaths registered in Scotland in week 22 of 2021 was 1,051. This was 34 deaths more than the five year average for week 22 (3% above average).
- In week 22 there were 15 fewer deaths in care homes (6% below average), 89 excess deaths at home or in non-institutional settings (32% above average) and 40 fewer deaths in hospitals (8% below average), compared to the 2015-2019 average.
- There were 22 more deaths from cancer, 19 more deaths from dementia/Alzheimer's and 29 more deaths from other causes compared to the five year average. Deaths from circulatory (-15) and respiratory diseases (-28) were below average. The number of deaths where COVID-19 was the underlying cause was 7.

Measuring excess deaths in 2021

Excess deaths are calculated by comparing the current year to the five year average from previous years. This average is based on the actual number of death registrations recorded for each corresponding week in the previous five years. Moveable public holidays, when registration offices are closed, affect the number of registrations made in the current week and in the corresponding weeks in previous years.

In 2020, excess deaths were measured by comparing the 2020 figure against the average for 2015-2019. For 2021 we would generally calculate excess deaths by comparing the 2021 figure against the average for 2016-2020.

As excess deaths are a key measure of the effect of the pandemic, it is not appropriate to compare the 2021 figure against the 2016-2020 average as that average will be affected by the pandemic with higher deaths in Spring 2020. We have therefore decided to continue to use the 2015-2019 average to measure excess deaths in 2021.

Figure 1: Weekly deaths involving COVID-19 in Scotland, week 12 2020 to week 22 2021

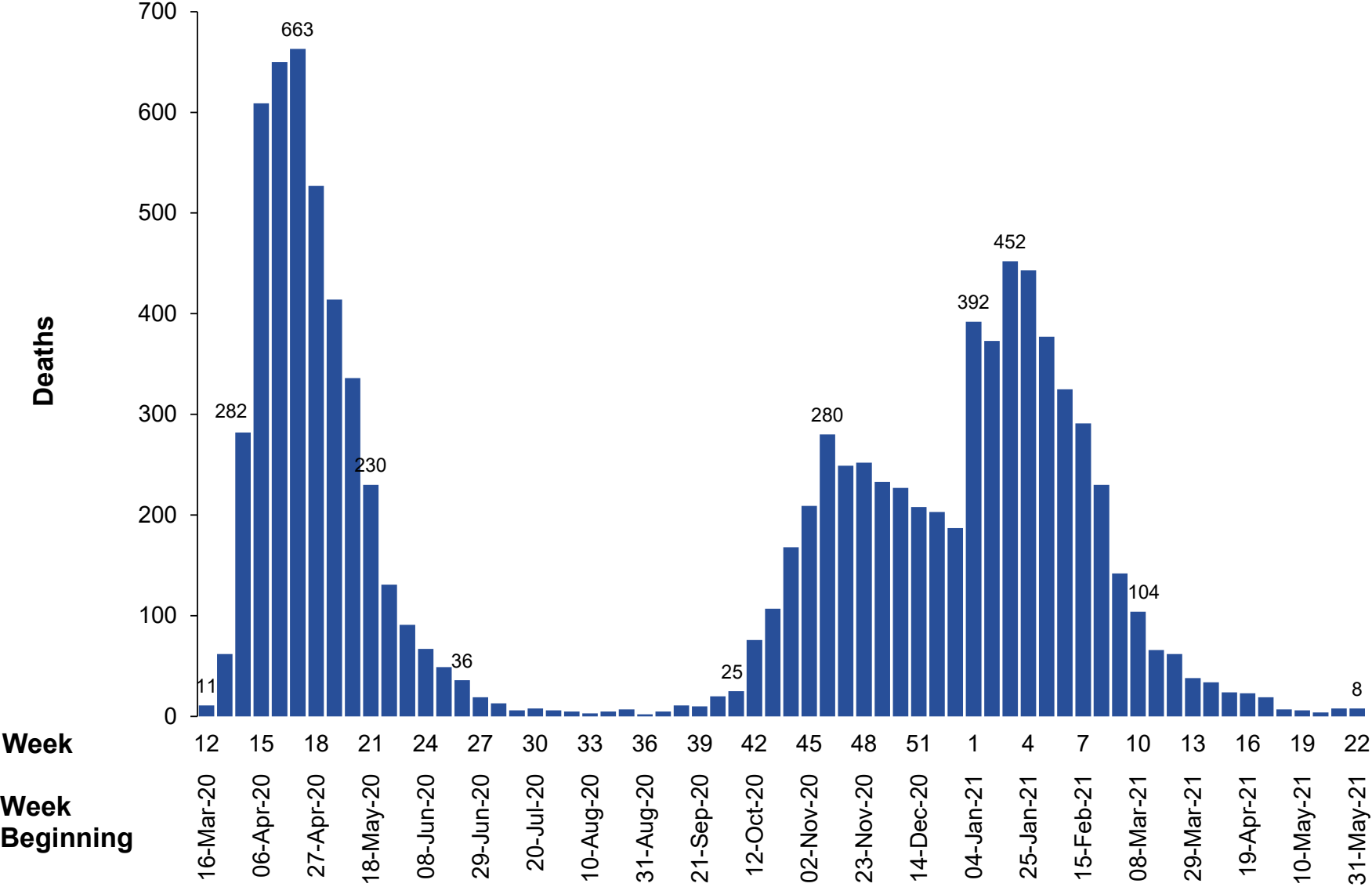
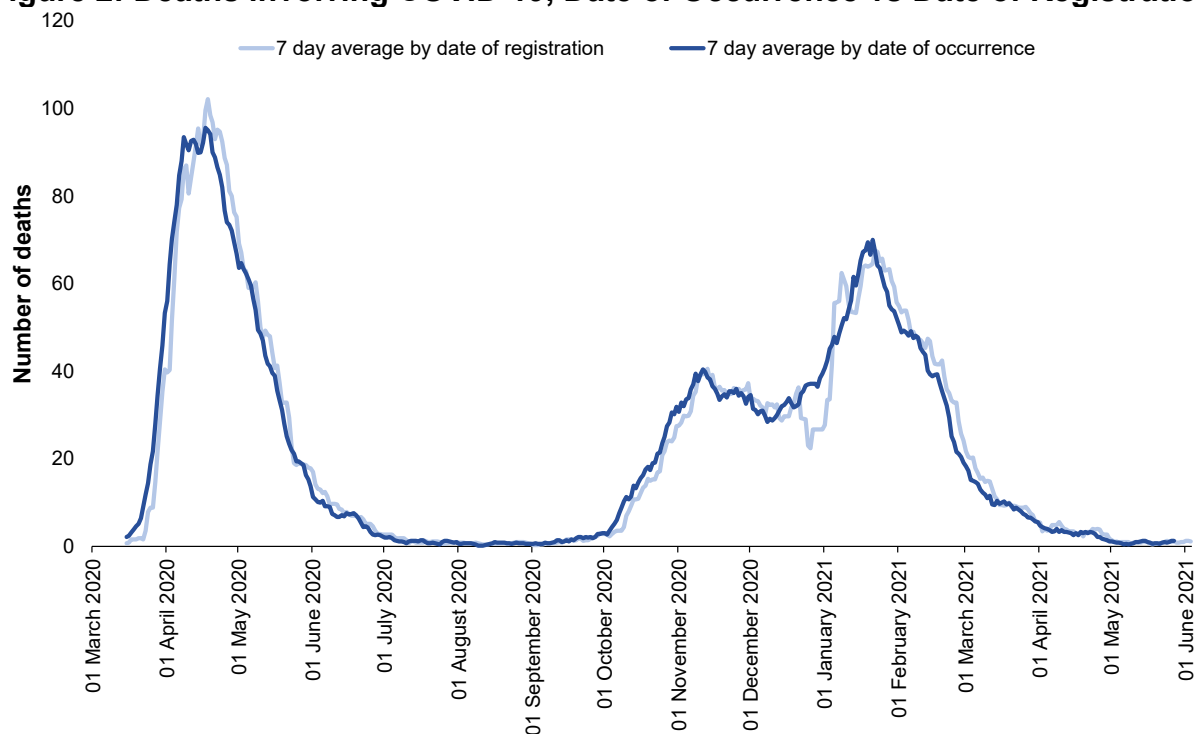


Figure 2: Deaths involving COVID-19, Date of Occurrence vs Date of Registration



The figures throughout this report are based on the date a death was registered rather than the date the death occurred. When someone dies, their family (or a representative) have to make an appointment with a registrar to register the death. Legally this must be done within 8 days, although in practice there is, on average, a 3 day gap between a death occurring and being registered. This gap can be greater at certain times of the year such as Easter and Christmas when registration offices are closed for public holidays.

In general, the trend in COVID-19 deaths by date of registration (the NRS headline measure) has a lag of around 3 days when compared with the figures on date of death. For most of the period examined, the trend based on date of occurrence precedes that based on date of registration by around 3 days. However this changed over the Christmas period.

Based on date of registration, the trend, which had been falling since mid-November, continued to fall with a substantial dip around Christmas (as registration offices closed for public holidays) and then increased rapidly in early January as registration offices caught up with the backlog of registrations. The trend based on date of occurrence shows a different picture and indicates that deaths began to increase as early as mid-December, and continued to increase through most of January. Towards the end of January the seven day average for deaths by date of occurrence began to fall and has continued to fall since.

This report includes all deaths which were registered by 6th of June. There will, however, be deaths which occurred before this date but were not yet registered. In order to include a more complete analysis based on date of occurrence, we need to wait an additional week to allow the registration process to fully complete. The trend

based on date of occurrence therefore only includes deaths which occurred by 30th of May as the majority of these are likely to have been registered by now.

How do NRS compile these statistics?

- Weekly figures are based on the date of registration. In Scotland deaths must be registered within 8 days but in practice, the average time between death and registration is around 3 days.
- Figures are allocated to weeks based on the ISO8601 standard. Weeks begin on a Monday and end on a Sunday. Often weeks at the beginning and end of a year will overlap the preceding and following years (e.g. week 1 of 2020 began on Monday 30 December 2019) so the weekly figures may not sum to any annual totals which are subsequently produced.
- Deaths involving COVID-19 are defined as those where COVID-19 is mentioned on the death certificate, either as the underlying cause of death or as a contributory cause. Cause of death is coded according to the International Statistical Classification of Diseases and Related Health Conditions 10th Revision (ICD-10). The relevant codes included in this publication are U07.1, U07.2, U09.9 and U10.9.
- Figures include deaths where 'suspected' or 'probable' COVID-19 appears on the death certificate.
- From the week beginning 22 March 2021, new ICD-10 codes issued by the World Health Organisation (WHO) were also used to code deaths involving COVID-19. U09.9 is used for 'post-COVID' conditions, when death occurred after acute or ongoing COVID-19. U10.9 is used in the rare cases where 'Kawasaki-like' syndrome is caused by COVID-19. Data back to March 2020 has been recoded to ensure consistency of the time series.
- Data are provisional and subject to change in future weekly publications. The 2020 data will be finalised in August 2021. Reasons why the data might be revised later include late registration data being received once the week's figure have been produced or more information being provided by a certifying doctor or The Crown Office and Procurator Fiscal Service (COPFS) on the cause of death.
- Certain user enquiries for ad-hoc analysis related to COVID-19 deaths have been published on our [website](#).
- The weekly publication includes breakdowns by sex, age, health board, local authority and location of death. It also includes an analysis of excess deaths by location and broad cause of death. We also publish a comprehensive and detailed analysis of mortality on a monthly basis.
- NRS mortality data (COVID-19 and excess deaths) continue to be made available on a weekly basis through the [Scottish Government's COVID-19 dashboard](#)

Index of available analysis on registered deaths involving COVID-19

Breakdown	Frequency	When Added	Latest Period Covered	Date Last updated
Age group	Weekly	8 th April 2020	Week 22	9 th June 2021
Sex	Weekly	8 th April 2020	Week 22	9 th June 2021
Location	Weekly	15 th April 2020	Week 22	9 th June 2021
Health Board	Weekly	8 th April 2020	Week 22	9 th June 2021
Local Authority	Weekly	22 nd April 2020	Week 22	9 th June 2021
Excess deaths by cause and location	Weekly	17 th June 2020	Week 22	9 th June 2021
Age-standardised mortality rates – Scotland	Monthly	13 th May 2020	April 2021	14 th April 2021
Age-standardised mortality rates – sub-Scotland	Monthly	17 th June 2020	April 2020 – March 2021 combined	14 th April 2021
Leading causes of death	Monthly	13 th May 2020	April 2021	14 th April 2021
Pre-existing conditions	Monthly	13 th May 2020	April 2021	14 th April 2021
Deprivation	Monthly	13 th May 2020	March 2020 - April 2021 combined	14 th April 2021
Urban Rural	Monthly	13 th May 2020	March 2020 - April 2021 combined	14 th April 2021
Daily occurrences by location of death	Monthly	13 th May 2020	February	14 th April 2021
Occupation	Monthly	17 th June 2020	March 2020 - April 2021 combined	14 th April 2021
Intermediate Zone	Monthly	17 th June 2020	March 2020-April 2021 combined	14 th April 2021
Deaths by ICD-10 codes	Monthly	19 th May 2021	March 2020-April 2021 combined	19 th May 2021
Deaths in individual care homes	One-off	26 th May 2021	Week 12 2020 to week 20 2021	26 th May 2021
Deaths in individual hospitals	One-off	26 th May 2021	Week 12 2020 to week 20 2021	26 th May 2021
Ethnic Group	One-off	8 th July 2020	March to mid-June	11 th November 2020
Disability	One-off	24 th March 2021	March to Jan	24 th March 2021

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Recording the present – At our network of local offices, we register births, marriages, civil partnerships, deaths, divorces and adoptions in Scotland.

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Enquiries and suggestions

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