

CMI mortality monitor – week 14 of 2023

This update is for week 14 of 2023, ending on 7 April 2023 and published on 18 April 2023. The <u>CMI website</u> has details of the calculation methods and previous updates. Note: There was a bank holiday in week 14 of 2023. Differences in the number of bank holidays and their timing means that results may not be directly comparable to other weeks or years, including week 14 of 2019 (which did not have a bank holiday), which we use to calculate expected deaths.

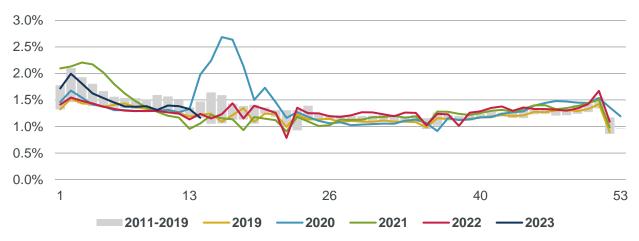
Table 1: Deaths registered in England & Wales in week 14 of 2023

	Male	Female	Total
"Expected" registered deaths (based on week 14 of 2019)	5,392	5,265	10,657
Actual registered deaths, from all causes	5,209	4,880	10,089
Excess deaths (and as a percentage of expected)	-183 (-3%)	-385 (-7%)	-568 (-5%)
Mentions of COVID-19 on the death certificate	261	252	513

Table 2: Cumulative excess deaths

	England & Wales	United Kingdom
From the start of the pandemic (29 Feb 2020 to 7 April 2023)	152,900	171,100
From week 1 of 2023 (31 Dec 2022 to 7 April 2023)	17,200	19,700

Chart 1: Weekly standardised mortality rates in England & Wales for 2012 to 2023



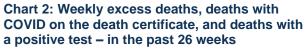




Chart 3: Weekly COVID deaths and Non-COVID excess (Excess minus COVID deaths) – in the past 26 weeks





Chart 4 shows cumulative standardised mortality rates relative to cumulative mortality in 2019, as a proportion of mortality for 2019 as a whole. We use 2019 as the comparator as this is consistent with the excess deaths calculation above.

Under this measure, cumulative standardised mortality to week 14 of 2023 is 3.1% above 2019.

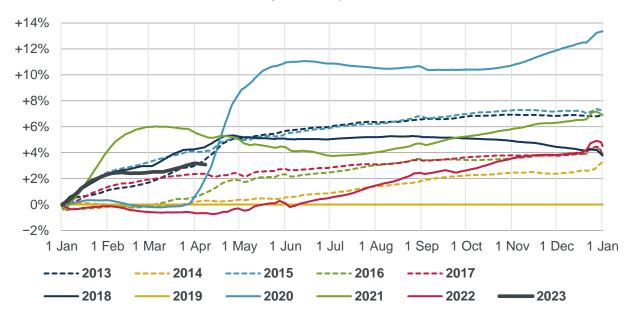


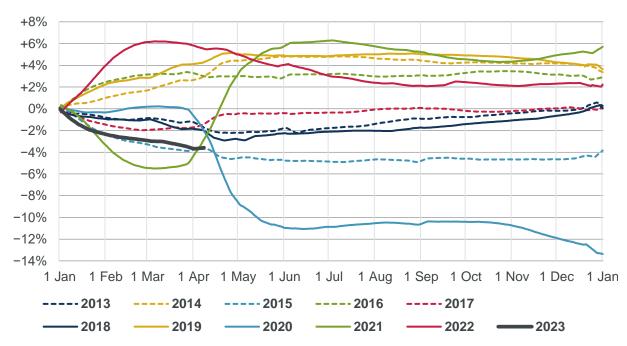
Chart 4: Cumulative standardised mortality rate compared to 2019

Chart 5 shows the cumulative annual standardised mortality improvement for 2023 and the previous ten years. The cumulative improvement for year N is the reduction in cumulative mortality from year N-1 to year N, as a proportion of full-year mortality for year N-1.

The cumulative mortality improvement to week 14 of 2023 (relative to 2022) is -3.6%.

The cumulative mortality improvement between 2019 and 2023 is -3.1% to week 14 of 2023.

Chart 5: Cumulative annual standardised mortality improvement





Data sources

The provisional weekly deaths are available from:

- ONS (England & Wales)
 <u>https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/datasets/wee</u>
 <u>klyprovisionalfiguresondeathsregisteredinenglandandwales</u>
- NRS (Scotland) <u>https://www.nrscotland.gov.uk/covid19stats</u>
- NISRA (Northern Ireland) https://www.nisra.gov.uk/statistics/death-statistics/weekly-death-registrations-northern-ireland

The daily UKHSA data for deaths of people within 28 days of a positive test result for COVID-19 up to week 14 are available from <u>https://coronavirus.data.gov.uk/details/deaths</u>.

Notes on method

Full details of the methods used for results based on the ONS data are included in <u>Working Paper 111</u>. Our analysis is based on Standardised Mortality Rates (SMRs). These adjust the provisional weekly deaths data published by the ONS to control for changes in the size, age and gender distribution of the population over time. We note that mortality rates and mortality improvements vary by age, and the results shown are sensitive to the age distribution of the chosen standard population (the 2013 European Standard Population).

Our calculations rely on data for registered deaths, and we are conscious that during the pandemic deaths may have been registered earlier or later than in previous years. Consequently, comparisons of mortality between years during the pandemic and earlier years may not be on a like-for-like basis. Also, results for individual weeks may not be consistent between years due to the timing of public holidays.

Use of this document

The CMI disclaims any liability from use of or reliance on these calculations, including in relation to financial transactions such as longevity swaps; and the CMI does not guarantee that it will continue to publish updates. Please also see the reliances and limitations, disclaimer, and copyright notice on the final page of this document.

TAS compliance

This paper is intended to analyse recent mortality in England & Wales. It complies with the principles in the Financial Reporting Council's Technical Actuarial Standard "TAS 100: Principles for Technical Actuarial Work". Any person using this paper should exercise judgement over its suitability and relevance for their purpose.

Reliances and limitations

The purpose of the weekly mortality monitor is to provide regular updates on standardised mortality in England & Wales during the coronavirus pandemic, adjusting ONS data to allowing for changes in the size and age of the population.

The mortality monitor reports on all-cause and COVID-19 mortality. It does not offer any view on other causes of death or reasons for changes in mortality rates.

The CMI aims to produce high-quality outputs and takes considerable care to ensure that the mortality monitor and the accompanying spreadsheet of results are accurate. However:

- We cannot guarantee their accuracy (see the Disclaimer).
- There is a reliance on the data published by third parties, particularly the ONS data which is described as "provisional".
- We have also applied judgement and assumptions in deciding on the calculation methods and the presentation of results.
- Anyone using the results of the mortality monitor should ensure that it is appropriate for their particular use, and note that care is needed when estimating full year experience from partial year experience. This is particularly true during the coronavirus pandemic.



• These figures do not allow for the effect that the census may have on ONS mid-year population estimates in 2021 and prior years.

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