Latest numbers on COVID-19 in the UK – 22nd April 2022

1. Cases
2. Hospitalisations
3. Deaths
4. Vaccination
5. Variants
6. Long COVID

With many thanks to Bob Hawkins and Christina Pagel for help in collating the data
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Latest numbers on COVID-19 in the UK: ONS prevalence – up to 16th April 2022

England: 1 in 17
Scotland: 1 in 19
Wales: 1 in 15
NI: 1 in 30

3.7 million people testing positive

Source: ONS
ONS prevalence by age, England – up to 16th April 2022

- Highest prevalence in 70+

Source: Office for National Statistics – Coronavirus (COVID-19) Infection Survey
Estimated cumulative percentage of the population who have tested positive for COVID-19 during the survey period by country, UK, 27 April 2020 to 11 February 2022

Cumulative % of the population who have tested positive for COVID-19 in the survey period
90% credible interval

England

% 100
80
60
40
20
0
Apr 20 Oct 20 Apr 21 Oct 21 Feb 22

Cumulative % 70.7
1 in 2
1 in 3
1 in 10

Wales

% 100
80
60
40
20
0
Apr 20 Oct 20 Apr 21 Oct 21 Feb 22

Cumulative % 56.0
1 in 2
1 in 3
1 in 10

Northern Ireland

% 100
80
60
40
20
0
Apr 20 Oct 20 Apr 21 Oct 21 Feb 22

Cumulative % 72.2
1 in 2
1 in 3
1 in 10

Scotland

% 100
80
60
40
20
0
Apr 20 Oct 20 Apr 21 Oct 21 Feb 22

Cumulative % 51.5
1 in 2
1 in 3
1 in 10

Does not include first wave

ONS data collection began later in Scotland

‘Freedom day’

Source: Office for National Statistics – Coronavirus (COVID-19) Infection Survey
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Patients in hospital with COVID-19 in the UK – 22nd April 2022

With many thanks to Christina Pagel for his help in collating the data
Latest numbers on COVID-19 hospitalisations – 25 February 2022

40% had COVID-19 as primary cause

23% likely had hospital acquired infection

Source: https://coronavirus.data.gov.uk/details/healthcare
Latest numbers on COVID-19 hospitalisations – 22\textsuperscript{nd} April 2022

Source: https://coronavirus.data.gov.uk/details/healthcare
Average Ambulance Response Times (Minutes) by Urgency in England
Jan 2018 to Mar 2022
(Source: NHS England Ambulance Quality Indicators 2021-22)

Average Ambulance Response Times (Minutes) for the Most Urgent Calls in England: Jan 2018 to Mar 2022
(Source: NHS England Ambulance Quality Indicators 2021-22)

Percent of A&E attendances greater than 4/12 hours from ‘decision to admit’ to hospital admission for England: Nov 2010 – Mar 2022
(Source: NHS Monthly A&E Attendances and Emergency Admissions)

136,297 A&E Patients (27%) waited longer than four hours from ‘decision to admit’ to admission in Mar 2022

16,404 A&E Patients (4.4%) waited longer than 12 hours from ‘decision to admit’ to admission in Mar 2022


With many thanks to Bob Hawkins for these charts
Percent of Patients Starting Non-Emergency Consultant Treatment within 18 Weeks of Referral by Month for England (Jan 2016 to Feb 2022)
(Source: NHS Monthly A&E Attendances and Emergency Admissions)

3,211,758 Patients (37%) waited longer than 18 Weeks to Start Treatment in Feb 2022

Number of Patients Waiting for Diagnostic Tests by Month
England (Jan 2016 to Feb 2022)
(Source: NHS Monthly Diagnostic Waiting Times and Activity Report)


With many thanks to Bob Hawkins for the chart
The NHS is under severe pressure— infection control being further relaxed

Winter NHS pressures being felt well into spring due to Covid – NHS leaders

NHS Confederation chief Matthew Taylor said: ‘No 10 has said it’s a priority, whatever,’

NHS boss says pressures are ‘serious worry’ and calls on ministers to act

Chris Hopson, chief executive of NHS Providers, said the Government ‘isn’t even talking about Covid’— something which he says is ‘vital’.

Covid disruption to NHS in England wreaks havoc with surgery backlog

Exclusive: record infection rates are making targets for treating the 6m people on waiting lists look less achievable

‘Brutal’ NHS pressures stop Covid testing

Exclusive: ‘Things really are a mess right now ... you can’t treat anything if you don’t have beds,’ senior hospital worker says

‘Appalling’ waits for ambulances in England leaving lives at risk

Exclusive: Royal College of Emergency Medicine president says NHS is breaking its agreement to treat sickest in a timely way

‘For staff, this is heartbreaking’: senior doctor’s view on crisis

‘I feel so let down’: long waits for ambulances in south-west
Latest numbers on COVID-19 in the UK – 22\textsuperscript{nd} April 2022

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With many thanks to Bob Hawkins and Christina Pagel for help in collating the data
Daily UK deaths with and from COVID-19: 28-day definition and ONS

192,322 deaths involving COVID-19 (death certification)

>15,000 deaths in 2022

1,088 deaths/wk (ONS)

Data unreliable due to lags
Latest numbers on COVID-19 in the UK – 22\textsuperscript{nd} April 2022

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With many thanks to Bob Hawkins and Christina Pagel for help in collating the data
Percent of Total Population Unvaccinated, First Dosed, Second Dose, and Fully Vaccinated with Booster as at Apr 6
(Source: Covid Daily Update and Mid-2020 ONS Population Estimates)

With many thanks to Bob Hawkins for these charts

42% of >75 yr olds have received the spring booster (4th dose) in England
Latest numbers on COVID-19 in the UK – 22^nd^ April 2022

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With many thanks to Bob Hawkins and Christina Pagel for help in collating the data
BA.4, BA.5, BA.2.12.1 appear to be growing in different regions – similar rate as BA.2 relative to BA.1

All have mutations at the L452 position (similar to delta)

With many thanks to Tom Wenseleers and Trevor Bedford for these analyses and graphs
Proportion of sequenced cases that are each variant in England over time, to w/e 16 April 2022. (Note only 6 sequenced cases in UK of BA.4 and 1 of BA.5 to date)


With many thanks to Christina Pagel for this chart
Latest numbers on COVID-19 in the UK – 21st January 2022

1. Cases
2. Hospitalisations
3. Deaths
4. Vaccination
5. Variants
6. Long COVID

With many thanks to Bob Hawkins and Christina Pagel for help in collating the data
Number of People Living with Self-Reported Long Covid in the UK
Mar 6, 2021 to Mar 5, 2022 (up to January infections)
(Source: ONS Prevalence of ongoing symptoms following coronavirus (COVID-19) infection in the UK Reports)

With many thanks to Bob Hawkins for these charts
https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/bulletins/prevalenceofongoingsymptomsfollowingcoronaviruscovid19infectioninneu5/7april2022
Percentage of population living with “Long Covid” (symptoms lasting at least 4 weeks) by age over time (ONS survey)

- Increases in all ages during omicron wave
- Increased 4x since July 2021 in children

Data from
https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/datasets/alldatarelatingtoprevalenceofongoingsymptomsfollowingcoronaviruscovid19infectionintheuk

With many thanks to Christina Pagel for this chart
Percent of People in ‘Top 6’ Job Sectors Living with Self-Reported Long Covid in the UK: Dec 6, 2021 to Mar 5, 2022

(Source: ONS Prevalence of ongoing symptoms following coronavirus (COVID-19) infection in the UK Reports)

https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/bulletins/prevalenceofongoingsymptomsfollowingcoronaviruscovid19infectionintheuk/7april2022
Long Covid now major cause of long-term job absence, say quarter of UK employers

Survey suggests debilitating condition could exacerbate labour shortages and slow economic growth

A support group for sufferers of long Covid says its members include many who have dropped out of professional jobs and are struggling to get by on basic benefits © Victoria Jones/PA

Delphine Strauss in London FEBRUARY 8 2022
Percent of Deprivation Quintile Living with Self-Reported Long Covid in the UK: Dec 6, 2021 to Mar 5, 2022
(Source: ONS Prevalence of ongoing symptoms following coronavirus (COVID-19) infection in the UK Reports)

https://www.ons.gov.uk/peoplepopulationandcommunity/healthandsocialcare/conditionsanddiseases/bulletins/prevalenceofongoingsymptomsfollowingcoronaviruscovid19infectionintheuk/7april2022
Press release

UKHSA review shows vaccinated less likely to have long COVID than unvaccinated
Referrals Made and Accepted for Post-Covid Assessment in England by 4 week Period: Aug 2021 – Mar 2022
(Source: NHS England COVID-19 Post-Covid Assessment Service Reports)

43,986 referrals accepted totally
37,154 post-COVID assessment completed

(Source: NHS England COVID-19 Post-Covid Assessment Service Reports)

With many thanks to Bob Hawkins for these charts

Post-acute sequelae

SARS-CoV-2 is associated with changes in brain structure in UK Biobank

Gwenaëlle Douaud, Soojin Lee, Fidel Alfaro-Almagro, McCarthy, Frederik Lange, Jesper Taschler, Peter Keating, Miller, Thomas E. Nicholl

Nature (2022) | Cite this

Cite this as: BMJ 2022; 376 doi: ht

Risk of mental health outcomes in people with covid-19: cohort study

Yan Xie, Evan Xu, Benjamin Bowe & Ziyad Al-Al

Nature Medicine 2022, 28, 583–590 (2022) | Cite this article

Long-term cardiovascular outcomes of COVID-19

Kidney Outcomes in Long COVID

Benjamin Bowe, Yan Xie, Evan Xu and Ziyad Al-Al

JASN November 2021, 32 (11) 2851-2862; DOI: https://doi.org/10.1681/ASN.2021060734
Summary – 22\textsuperscript{nd} April 2022

1. Cases, hospitalisations declining in all nations
2. High levels of population exposure to infection despite early vaccine roll-out
3. Significant numbers of hospitalisations with likely COVID-19 acquired in hospital
4. Deaths still occurring in significant numbers – trends will become clearer next week
5. Unprecedented pressures on emergency and routine care in the NHS
6. Poor infection control (e.g. lack of testing, inadequate PPE) measures likely to worsen these
7. Long COVID numbers reflect mass exposure to infection
8. Increases in long COVID during omicron wave- not fully felt yet
9. Occupational risk– likely significant long term effects to health and economy
10. Referrals for long COVID low in comparison to need, with long waits for many