Weekly national Influenza and COVID-19 surveillance report
Week 14 report (up to week 13 data)
6 April 2023
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For additional information including regional data on COVID-19 and other respiratory viruses, COVID-19 in educational settings, co- and secondary infections with COVID-19 and other data supplementary to this report, please refer to the accompanying graph pack.
Corrections

This report was updated on 20 April 2023 to correct an error in Figure 27, page 27. Please see page 28 in the current version. An incorrect data series was imported for the line representing fever or cough rates per 1,000 participants.
Executive summary

This report summarises the information from the surveillance systems which are used to monitor coronavirus (COVID-19), influenza, and other seasonal respiratory viruses in England. References to COVID-19 represent the disease name and SARS-CoV-2 represent the virus name. The report is based on data from week 13 (between 27 March and 2 April 2023) and for some indicators daily data up to 4 April 2023.

Overall
In week 13, from most indicators, influenza activity remained low and stable compared to week 12. COVID-19 activity decreased across all indicators compared to the previous week.

COVID-19
COVID-19 case rates through Pillar 1 decreased in week 13, in most age groups, most regions, and ethnic groups.

Through Respiratory Datamart, SARS-CoV-2 positivity decreased to 9.2% compared to 10.9% in the previous week.

Through primary care surveillance, COVID-19 indicators decreased compared to the previous week.

The overall number of reported COVID-19 confirmed outbreaks decreased compared to the previous week. The highest number of incidents continue to be in care homes, with 69 SARS-CoV-2 confirmed outbreaks occurring in England in week 13 compared to 85 in week 12.

Overall, COVID-19 hospitalisations decreased slightly in week 13 compared to week 12. Hospitalisations were highest in the 85 years and over age group. ICU admission rates due to COVID-19 remained stable. Through syndromic surveillance indicators, emergency department attendances for covid-like illness were decreasing.

Deaths with COVID-19 decreased in week 12 compared to week 11.

Influenza
In week 13, through Respiratory Datamart, influenza positivity remained low and stable at 1.4% compared to 1.6% in week 12, with highest positivity was seen in the 15 to 44 year old age group at 4.5%. Influenza B positivity remained low at 1.2% in week 13 compared to 1.4% in week 12.

Through primary care surveillance, the influenza-like-illness consultations indicator remained stable in week 13 compared to the previous week and was within the baseline activity level range.
No influenza confirmed outbreaks were reported in week 13 in England. Influenza hospital admissions decreased slightly in week 13 compared to the previous week and is within the baseline range of activity. By UKHSA Centre, the highest hospitalisation rate was observed in London. By age group, the highest hospital admission rate for influenza was in the under 5 years old age group. Influenza ICU admissions decreased slightly in week 13 and remained within the baseline range of activity.

Emergency department attendances for influenza-like illness decreased slightly nationally. The majority of influenza detections in the most recent week have been influenza B across a number of surveillance systems.

**RSV**

The overall positivity for RSV remained low at 0.5%, with the highest positivity in those aged under 5 years old at 1.5%. In week 13, the overall hospital admission rate for RSV remained low at 0.10 per 100,000. Emergency department attendances for acute bronchiolitis remained stable nationally.

**Other viruses**

Adenovirus positivity remained stable at 3.5%, with the highest positivity in those aged under 5 years old at 11.9%. Human metapneumovirus (hMPV) positivity decreased to 2.0% from 2.6% in the previous week, with the highest positivity in those aged under 5 years old at 11.9%. Parainfluenza positivity increased slightly to 5.4%, with the highest positivity in those aged under 5 years old at 10.4%. Rhinovirus positivity decreased to 11.2% overall, with the highest positivity in those aged under 5 years old at 22.8%.

**Other indicators**

During week 13, NHS 111 calls for cough and calls for cold or flu remained stable nationally. The primary care lower respiratory tract infection rate remained stable in week 13. Emergency department attendances for acute respiratory infection were stable nationally. There was no excess all-cause mortality detected in week 12.
Laboratory surveillance

Confirmed COVID-19 cases (England)

From 1 April 2022, the government ended provision of widespread community testing in England, as outlined in the plan for living with COVID-19. From week 15 2022, confirmed COVID-19 episodes and positivity through Pillar 1 are presented in this report, with Pillar 2 data available in the accompanying graph pack. Routine asymptomatic testing through NHS settings has been paused from 31 August, this will have an effect on Pillar 1 case rates and positivity rates.

As of 9am on 2 April 2023, a total of 2,056,162 episodes have been confirmed for COVID-19 in England under Pillar 1, and 18,697,275 episodes under Pillar 2, since the beginning of the pandemic. COVID-19 case rates through Pillar 1 decreased in week 13, across all age groups, regions, and ethnic groups. The number of Pillar 1 COVID-19 episodes decreased to 5,357 in week 13 compared to 7,072 in week 12.

Data notes:

Changes to testing policies over time may affect positivity rates and incidence rates and should be interpreted accordingly. From 31 January 2022, UK Health Security Agency (UKHSA) moved all COVID-19 case reporting in England to use a new episode-based definition which includes possible reinfections. Each infection episode is counted separately if there are at least 91 days between positive test results (polymerase chain reaction (PCR) or rapid lateral flow device). Each infection episode begins with the earliest positive specimen date. Further information can be found on the UK COVID-19 dashboard.

From the week 32 2021 report onwards, case rates have been updated to use the latest Office for National Statistics (ONS) population estimates for mid-2020. Previously case rates were calculated using the mid-2019 population estimates. Rates by ethnicity and Indices of Multiple Deprivation (IMD) quantile will continue to be presented using the mid-2019 estimates, until the mid-2020 estimates become available.

Please note that positivity is presented as positivity by PCR testing only. Positivity is calculated as the number of individuals testing positive during the week divided by the number of individuals tested during the week through PCR testing.

Data is shown by the week the specimen was taken from the person being tested. This gives the most accurate analysis of this time progression, however, for the most recent week results for more samples are expected therefore this should be interpreted with caution.

Data from the most recent week is subject to reporting lags and may change in future iterations.

Pillar 1 positivity metrics for the most recent week have been omitted due to a possible data processing issue which is being investigated. Please refer to the DataMart data on SARS-CoV2 positivity in figure 11.

Data source: Second Generation Surveillance System (SGSS)
Figure 1: Confirmed COVID-19 episodes tested under Pillar 1, based on sample week with overall weekly PCR positivity for Pillar 1 (%)

Age and sex

Figure 2: Weekly confirmed COVID-19 case rates per 100,000, by episode, tested under Pillar 1, by sex
Figure 3: Weekly confirmed COVID-19 case rates per 100,000, by episode, tested under Pillar 1, by age group

Figure 4: Weekly PCR positivity (%) of confirmed COVID-19 cases tested overall and by sex under Pillar 1
Figure 5: Weekly PCR positivity (%) of confirmed COVID-19 cases tested under Pillar 1, (a) by male and age group and (b) by female and age group

(a) Pillar 1 - Male

(b) Pillar 1 – Female
**Geography**

**Figure 6**: Weekly confirmed COVID-19 case rates by episode, per 100,000 population (Pillar 1), by UKHSA centres and sample week

![Weekly confirmed COVID-19 case rates by episode, per 100,000 population (Pillar 1), by UKHSA centres and sample week](image)

**Figure 7**: Weekly PCR positivity of confirmed COVID-19 cases tested under Pillar 1 (%) by UKHSA centres and sample week

![Weekly PCR positivity of confirmed COVID-19 cases tested under Pillar 1 (%) by UKHSA centres and sample week](image)
Figure 8: Weekly rate of COVID-19 episodes per 100,000 population (Pillar 1), by upper-tier local authority (UTLA), England (box shows enlarged map of London area)
Ethnicity

Figure 9: Weekly incidence per 100,000 population by ethnicity (Pillar 1), England*

- **White**
- **Indian (Asian or Asian British)**
- **Black / African / Caribbean / Black British**
- **Pakistani (Asian or Asian British)**
- **Other Asian / Asian British**
- **Mixed / Multiple ethnic groups**
- **Other ethnic group**
Respiratory DataMart system (England)

The Respiratory Datamart system began during the 2009 influenza pandemic to collate all laboratory testing information in England. It is now used as a sentinel laboratory surveillance tool, monitoring all major respiratory viruses in England. Sixteen laboratories in England will be reporting data for this season. As this is based on a sample of labs, SARS-CoV-2 positivity figures quoted here will differ from those quoted in the Confirmed COVID-19 cases section, however, they are included to allow comparison with data on other respiratory viruses.

In week 13, data is based on reporting from 12 out of the 16 sentinel laboratories.

In week 13, 11,155 respiratory specimens reported through the Respiratory DataMart System were tested for SARS-CoV-2. 1,024 samples were positive for SARS-CoV-2 with an overall positivity of 9.2%, which decreased compared to 10.9% the previous week. The highest positivity was seen in the 65 year olds and over at 12.7%.

In week 13, 5,985 respiratory specimens reported through the Respiratory DataMart System were tested for influenza. 82 samples tested positive for influenza; one influenza A(H3), seven influenza A(not subtyped) and 74 influenza B (Figure 12). Overall, influenza positivity remained low and stable at 1.4% in week 13 compared to 1.6% the previous week, with the highest positivity seen in the 15 to 44 year old age group at 4.5%, the same as the previous week. Influenza B positivity remained low at 1.2% in week 13 compared to 1.4% in week 12. Influenza A(H3N2) remained low at 0.1% compared to 0.3% in the previous week and influenza A(H1N1)pdm09 positivity remained low at 0.0% in week 12, the same as the previous week.

Adenovirus positivity remained stable at 3.5%, with the highest positivity in those aged under 5 years old at 11.9%.

Human metapneumovirus (hMPV) positivity decreased to 2.0% from 2.6% the previous week, with the highest positivity in those aged under 5 years old at 4.7%.

Parainfluenza positivity increased slightly to 5.4%, with the highest positivity in those aged under 5 years old at 10.4%.

Rhinovirus positivity overall decreased to 11.2% from 14.7% in the week, with the highest positivity in those aged under 5 years old at 22.8%.

The overall positivity for RSV remained low at 0.5%, with the highest positivity in those aged under 5 years old at 1.5%.
Figure 10: Respiratory DataMart samples positive for influenza and weekly positivity (%) for influenza, England

Figure 11: Respiratory DataMart weekly positivity (%) for SARS-CoV-2, England
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**Figure 12:** Respiratory DataMart weekly positivity (%) for influenza, England

![Graph showing weekly positivity for influenza](image)

**Figure 13:** Respiratory DataMart weekly positivity (%) for influenza by age, England

![Graph showing weekly positivity by age](image)
Figure 14: Respiratory DataMart weekly positivity (%) for other viruses, England

Figure 15: Respiratory DataMart weekly positivity (%) for adenovirus by age, England
**Figure 16:** Respiratory DataMart weekly positivity (%) for hMPV by age, England

**Figure 17:** Respiratory DataMart weekly positivity (%) for parainfluenza by age, England
Figure 18: Respiratory DataMart weekly positivity (%) for rhinovirus by age, England

Figure 19: Respiratory DataMart weekly positivity (%) for RSV by age, England
Community surveillance

Acute respiratory infection incidents

Here we present data on acute respiratory infection (ARI) incidents in different settings that are reported to UKHSA Health Protection Teams (HPTs) and entered onto the HPZone case and incident management system. Incidents are suspected outbreaks of acute respiratory infections linked to a particular setting. All suspected outbreaks are further investigated by the HPT in liaison with local partners.

The ARI definition includes presentations of both of influenza-like illness (ILI) and other acute viral respiratory infections (AVRI). Causal pathogens can include influenza A and B, respiratory syncytial virus (RSV), adenovirus, rhinovirus, parainfluenza, human metapneumovirus (hMPV) and SARS-CoV-2.

Data for England, Scotland and Northern Ireland are included in the UK figures.

Data caveats:

1. The incidents captured on HPZone represent a subset of all ongoing ARI clusters and outbreaks in England rather than an exhaustive listing.
2. In addition, SARS-CoV-2 testing policies and public health guidance for different settings changed over time. This means that any interpretation of seasonal and temporal trends since March 2020 should take this into account.
3. It should be noted that the denominator for the different settings will vary significantly. For example, there are fewer hospitals than workplaces. In addition, the propensity to report incidents to UKHSA also varies significantly by setting. This needs to be considered when interpreting the weekly number of reported incidents by setting and caution should be used when making comparisons between settings.
4. Considering the above, comparisons between regions and settings are not advised as they may be misleading.
227 new ARI incidents have been reported in week 13 in the UK (Figure 20):

- 175 incidents were from care homes, where 94 had at least one linked case that tested positive for SARS-CoV-2 and one for influenza A (untyped)
- 25 incidents were from hospitals, where 15 had at least one linked case that tested positive for SARS-CoV-2
- Four incidents were from prisons, where two had at least one linked case that tested positive for SARS-CoV-2
- Three incidents were from educational settings, where no laboratory results were available
- 20 incidents were from other settings, where 12 had at least one linked case that tested positive for SARS-CoV-2

*Excludes data from Wales*
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**Figure 21: Number of acute respiratory infection (ARI) incidents by setting, England**

![Graph showing number of ARI incidents by setting](image)

**Figure 22: Number of acute respiratory infection (ARI) incidents in care homes by virus type, England**

![Graph showing number of ARI incidents in care homes](image)
Figure 23: Number of acute respiratory infection (ARI) incidents in hospitals by virus type, England
Figure 24: Number of acute respiratory infection (ARI) incidents in educational settings by virus type, England (a) for the weeks 14 2022 to 13 2023 and (b) for the 2022 to 23 academic year
Figure 25: Number of acute respiratory infection (ARI) incidents in prisons by virus type, England

![Graph showing number of ARI incidents in prisons by virus type, England.]

Figure 26: Number of acute respiratory infection (ARI) incidents in other settings by virus type from, England

![Graph showing number of ARI incidents in other settings by virus type, England.]

Weekly National Influenza and COVID-19 Report: week 14 report (up to week 13 data)
Table 1: Total number of situations and incidents by institution and UKHSA centres over the past 4 weeks with the total number in the last week in brackets

<table>
<thead>
<tr>
<th>UKHSA Centres</th>
<th>Care Home</th>
<th>Hospital</th>
<th>Educational Setting</th>
<th>Prison</th>
<th>Workplace</th>
<th>Other</th>
<th>Grand Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>East of England</td>
<td>35(3)</td>
<td>0(0)</td>
<td>0(0)</td>
<td>3(1)</td>
<td>0(0)</td>
<td>0(0)</td>
<td>38(4)</td>
</tr>
<tr>
<td>East Midlands</td>
<td>8(2)</td>
<td>0(0)</td>
<td>0(0)</td>
<td>2(2)</td>
<td>0(0)</td>
<td>0(0)</td>
<td>10(4)</td>
</tr>
<tr>
<td>London</td>
<td>97(15)</td>
<td>57(9)</td>
<td>14(0)</td>
<td>1(0)</td>
<td>1(0)</td>
<td>15(6)</td>
<td>185(30)</td>
</tr>
<tr>
<td>North East</td>
<td>148(40)</td>
<td>0(0)</td>
<td>1(0)</td>
<td>0(0)</td>
<td>0(0)</td>
<td>3(0)</td>
<td>152(40)</td>
</tr>
<tr>
<td>North West</td>
<td>20(2)</td>
<td>1(1)</td>
<td>1(0)</td>
<td>0(0)</td>
<td>0(0)</td>
<td>1(0)</td>
<td>23(3)</td>
</tr>
<tr>
<td>South East</td>
<td>1(1)</td>
<td>0(0)</td>
<td>1(0)</td>
<td>3(0)</td>
<td>0(0)</td>
<td>0(0)</td>
<td>5(1)</td>
</tr>
<tr>
<td>South West</td>
<td>231(48)</td>
<td>0(0)</td>
<td>0(0)</td>
<td>0(0)</td>
<td>0(0)</td>
<td>7(0)</td>
<td>238(48)</td>
</tr>
<tr>
<td>West Midlands</td>
<td>41(8)</td>
<td>8(1)</td>
<td>3(0)</td>
<td>3(1)</td>
<td>0(0)</td>
<td>3(0)</td>
<td>58(10)</td>
</tr>
<tr>
<td>Yorkshire and Humber</td>
<td>78(12)</td>
<td>5(1)</td>
<td>2(0)</td>
<td>0(0)</td>
<td>0(0)</td>
<td>9(3)</td>
<td>94(16)</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>659(131)</strong></td>
<td><strong>71(12)</strong></td>
<td><strong>22(0)</strong></td>
<td><strong>12(4)</strong></td>
<td><strong>1(0)</strong></td>
<td><strong>38(9)</strong></td>
<td><strong>803(156)</strong></td>
</tr>
</tbody>
</table>
FluSurvey

An internet-based surveillance system has been developed based on FluSurvey. FluSurvey is a web tool survey designed to monitor trends of influenza-like illness (ILI) in the community using self-reported respiratory symptoms from registered participants. The platform has been adapted to capture respiratory symptoms, exposure risk and healthcare seeking behaviours among registered participants to contribute to national surveillance of COVID-19 activity as well as influenza activity since week 44 2020.

Note that ILI is defined as sudden onset of symptoms with at least one of fever (chills), malaise, headache, muscle pain and at least one of cough, sore throat, shortness of breath.

During week 13 there were 1,999 participants completing the weekly symptoms questionnaire of which 155 (7.8%) reported fever or cough and 45 (2.3%) reported influenza like illness (ILI).

Both COVID-19 related symptoms and influenza like illness (ILI) amongst participants completing the weekly symptoms survey decreased slightly when compared to data reported in week 12.

Healthcare seeking behaviour amongst participants reporting respiratory symptoms relating to COVID-19 (cough, fever or loss of smell) showed that participants reporting symptoms were more likely to telephone their GP provider (Figure 7).

Self-reported daily social contact patterns are also reported. A contact is defined as a person outside the household who is approached at a distance of less than one metre, on the day prior to survey completion. There remains variation on social mixing patterns amongst participants as people are meeting more individuals outside of their households (Figure 28).
Figure 27: FluSurvey participants self-reporting fever or cough and ILI symptoms, and trends in healthcare seeking behaviour among these participants, England

This figure was updated on 20 April 2023 to correct an error due to incorrectly imported data for the fever or cough rates (dashed black line).
Figure 28: FluSurvey participants' self-reported number of social contacts outside the household

- **0%**
- **10%**
- **20%**
- **30%**
- **40%**
- **50%**
- **60%**
- **70%**
- **80%**
- **90%**
- **100%**

**Number of daily non-household contacts (proportion of participants)**

- **Week Number**: 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 51 1 3 5 7 9 11 13

- **0**
- **1**
- **2-5**
- **6-10**
- **>10**
Google search queries

This is a web-based syndromic surveillance system which uses daily search query frequency statistics obtained from the Google Health Trends API (Application Programming Interface). This model focuses on search queries about COVID-19 symptoms as well as generic queries about ‘coronavirus’ (for example ‘COVID-19’). The search query frequency time series is weighted based on symptom frequency as reported in other data sources. Frequency of searches for symptoms is compared with a baseline calculated from historical daily data. Further information on this model is available online.

During week 13, the overall and media-debiasing weighted Google search scores decreased slightly compared to week 12 (Figure 29).
Figure 29: Normalised Google search score for COVID-19 symptoms, with weighted score for media-debiasing and historical trend, England
**Flu Detector**

FluDetector is a web-based model which assesses internet-based search queries for ILI in the general population.

Daily ILI rate estimates are based on uniformly averaged search query frequencies for a week-long period (including the current day and the 6 days before it).

For week 12, the daily ILI rate increased slightly in week 13 compared to week 12 and remained below the baseline threshold of 19.6 per 100,000 for the 2022 to 2023 season (Figure 30).

**Figure 30: Daily estimated ILI Google search query rates per 100,000 population, England**
NHS 111

Please note that different syndromic surveillance indicators (NHS 111, GP in hours, GP out of hours and emergency department attendances) presented here have been included in previous versions of this report. All indicators previously presented will continue to be published in the Syndromic Surveillance bulletins.

The NHS 111 service monitors daily trends in phone calls made to the service in England, to capture trends in infectious diseases such as influenza and norovirus.

Please note that the number of NHS 111 calls are still lower than usual due to widely publicised disruption faced by a clinical software system. The NHS 111 call data presented in this report should therefore be interpreted with some caution.

During week 13, NHS 111 calls for cough and calls for cold or flu remained stable nationally (Figure 31 and 32).

Please note that NHS 111 callers (from 11 May 2020) who are assessed as having probable COVID-19 symptoms are now triaged using symptom specific pathways such as cold or flu, which are included in routine syndromic indicators.

Further information about these caveats is available from the Remote Health Advice Syndromic Surveillance bulletin.
Figure 31: NHS 111 telephony indicators (and 7-day moving average) for number of daily cold or flu calls, England (a) nationally and (b) by age group

(a)

NHS 111 calls: cold or flu 03/04/2022 to 02/04/2023

Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

(b)

NHS 111 calls: cold or flu by age (years) 03/04/2022 to 02/04/2023

NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON. Black line is 7 day moving average adjusted for bank holidays.
Figure 32: NHS 111 telephony indicators (and 7-day moving average) for number of daily cough calls, England (a) nationally and (b) by age group

(a)

NHS 111 calls: cough 03/04/2022 to 02/04/2023

Black line is 7 day moving average adjusted for bank holidays.
Black dotted line is baseline. Grey columns show weekends and bank holidays.

(b)

NHS 111 calls: cough by age (years) 03/04/2022 to 02/04/2023

NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.
Primary care surveillance

RCGP (England)

The weekly ILI consultation rate through the RCGP surveillance decreased slightly to 3.1 per 100,000 registered population in participating GP practices in week 13 compared to 3.7 per 100,000 in the previous week and remained within baseline activity levels (less than 11.47 per 100,000) (Figure 33). By age group, the highest rates were seen in children aged below one year old (10.5 per 100,000) followed by those aged between 15 and 44 years old (4.1 per 100,000). The lower respiratory tract infections (LRTI) consultation rate increased slightly to 66.0 per 100,000 in week 13 compared to 62.9 per 100,000 in the previous week. The COVID-19 indicator rate decreased to 34.9 per 100,000 in week 13 compared to 44.3 per 100,000 in the previous week (Figure 34).

Figure 33: RCGP influenza-like illness (ILI) consultation rates, all ages, England
Figure 34: RCGP ILI, LRTI and COVID-19 indicator rates, England
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UK

Overall, weekly ILI consultations remained at baseline activity levels in all devolved administrations.

By age group, the highest incidence was in children aged below one year old in England (10.5 per 100,000), in adults aged 65 to 74 years old in Scotland (4.0 per 100,000), in adults aged 65 to 74 in Northern Ireland (3.2 per 100,000), and in children aged 5 to 14 years old in Wales (8.78 per 100,000).

Table 2: GP ILI consultations in the UK for all ages with MEM (Moving Epidemic Method) thresholds applied

<table>
<thead>
<tr>
<th>GP ILI consultation rates (all ages)</th>
<th>Week number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>40</td>
</tr>
<tr>
<td>England (RCGP)</td>
<td></td>
</tr>
<tr>
<td>Wales</td>
<td></td>
</tr>
<tr>
<td>Scotland</td>
<td></td>
</tr>
<tr>
<td>Northern Ireland</td>
<td></td>
</tr>
</tbody>
</table>

The Moving Epidemic Method (MEM) has been adopted by the European Centre for Disease Prevention and Control to calculate thresholds for GP ILI consultations for the start of influenza activity (based on 10 seasons excluding 2020 to 2021), in a standardised approach across Europe.
Sentinel swabbing scheme in England

Based on the date samples were received in the reference laboratory, in week 13 2023 (week commencing 26th March 2023) 273 samples were tested through the GP sentinel swabbing scheme in England, of which 79 samples tested positive (Figure 35). Among positive samples with a known virus type, 50.6% were for rhinovirus, 19.0% for seasonal coronaviruses, 14.0% for SARS-CoV-2, 7.6% for adenovirus, 6.3% for influenza and 2.5% for RSV (Figure 36).

Based on the date samples were taken, 97 samples were tested for influenza in week 13, of which one sample tested positive for influenza B (Figure 37). Influenza, SARS-CoV-2 and RSV positivity decreased in week 13 compared to week 12 (Figure 38). Data for the most recent week will be updated retrospectively. Positivity (%) is not calculated when the total number tested based on sample date was less than 20 (Figure 38).
Figure 35: Number of samples tested for SARS-Cov-2, influenza, and other respiratory viruses in England by week, GP sentinel swabbing

Unknown category corresponds to samples with no result yet.
Source: RCGP Research and Surveillance Centre sentinel primary care practices (RCGP Virology Dashboard)
Figure 36. Proportion of detections of SARS-CoV-2, influenza, and other respiratory viruses amongst virologically positive respiratory surveillance samples in England by week, GP sentinel swabbing scheme

Source: RCGP Research and Surveillance Centre sentinel primary care practices (RCGP Virology Dashboard)
Figure 37: Number of positives samples for influenza A (by subtype) and B in England by week, GP sentinel swabbing

- Influenza B
- Influenza A(H3N2)
- Influenza A(H1N1)
- Influenza A (not subtyped)

Figure 38: Weekly positivity (%) for COVID-19, Influenza and RSV in England by week, GP sentinel swabbing

- SARS-COV-2 (%)
- RSV positivity (%)
- Total Influenza positivity (%)
GP In Hours, Syndromic Surveillance

The GP In Hours (GPIH) syndromic surveillance system monitors the number of GP visits during regular hours of known clinical indicators.

During week 12, the rate of GP in hours consultations for influenza-like illness remained stable nationally and below the baseline levels (Figure 39).

Further indicators and information about caveats are available from the GP In Hours Syndromic Surveillance bulletin.

Figure 39: GPIH clinical indicators for influenza-like illness GP consultations, England (a) nationally, (b) by age group and (c) by UKHSA centre
GPIH Baselines are modelled from historical data to give current seasonally expected levels. GP consultations rates decreased during 2020 due to changes in guidance on accessing health care, therefore separate modelled estimates are provided to show seasonally expected levels pre-COVID-19.
GP Out of Hours, Syndromic Surveillance

The GP Out of Hours (GPOOH) syndromic surveillance system monitors the numbers of daily unscheduled visits and calls to GPs during evenings, overnight, on weekends and on public holidays. This system covers around 55% of England’s out of hour activity.

Due to a disruption with a GPOOH clinical software system provider, GPOOH data from 4 August onwards is not currently available. Data from GPOOH systems will be added back into this report once available. The most recent data is available in previous reports.
Secondary care surveillance

SARI Watch

The Severe Acute Respiratory Infection (SARI) Watch surveillance system was established in 2020 to report the number of laboratory-confirmed influenza and COVID-19 cases admitted to hospital and critical care units (ICU and HDU) in NHS acute trusts across England. This has replaced the UK Severe Influenza Surveillance Schemes (USISS) Mandatory and Sentinel data collections for influenza surveillance used in previous seasons, and the COVID-19 hospitalisations in England surveillance system (CHESS) collections for COVID-19 surveillance.

The weekly rate of new admissions of COVID-19, influenza and RSV cases is based on the trust catchment population of those NHS Trusts who made a new return. This may differ from other published figures such as the total number of people currently in hospital with COVID-19.

The Moving Epidemic Method (MEM) thresholds for influenza hospital and ICU or HDU admissions are calculated based on the 2016 to 2017 to the 2021 to 2022 seasons (data from 2020 to 2021 was excluded due to the COVID-19 pandemic). These thresholds have been applied to data from the 2022 to 2023 season onwards.

Trends in hospital and critical care admission rates need to be interpreted in the context of testing recommendations. Please note that routine asymptomatic testing for SARS-CoV-2 through NHS settings has been paused from 31 August 2022, therefore SARI-Watch data should be interpreted with this in mind.

Similarly trends in influenza hospitalisation and critical care admission should be interpreted in the context of testing practices. In recent years there has been wider implementation of rapid molecular point of care tests for influenza in hospital settings. From a public health surveillance perspective it is important to consider a step change in influenza case ascertainment in more recent years.

On 16 February 2023, UKHSA issued a reminder to acute Trusts that influenza A samples from critical care should be subtyped in line with existing guidance. This may impact on the ratio of subtyped to unsubtyped in surveillance data.
Hospitalisations, SARI Watch

In week 13 (ending 2 April 2023), the overall weekly hospital admission rate for COVID-19 decreased to 8.35 per 100,000 compared to 9.40 per 100,000 in the previous week. By UKHSA centre, the highest hospital admission rate for COVID-19 was observed in the North East. By age group, the highest hospital admission rate for confirmed COVID-19 continues to be in those aged 85 year olds and over.

In week 13 (ending 2 April 2023), the overall weekly hospital admission rate for influenza decreased to 0.49 per 100,000 compared to 0.67 per 100,000 in the previous week. The rates from week 3 2023 onwards were revised due to retrospective updates from trusts. The rate in the latest week remained within baseline activity levels. By UKHSA Centre, the highest hospitalisation rate was observed in London (2.10 per 100,000). By age group, the highest hospital admission rate for influenza was in the under 5 years old age group (1.31 per 100,000). There were 41 new hospital admissions to sentinel Trusts for influenza (7 influenza A(not subtyped) and 34 influenza B) in week 13.

Figure 40: Weekly overall hospital admission rates of new COVID-19 and influenza positive cases per 100,000 population reported through SARI Watch, England

* Influenza hospital admission rate based on 20 sentinel NHS trusts for week 13
* COVID-19 hospital admission rate based on 90 NHS trusts for week 13
* SARI Watch data is provisional
Figure 41: Weekly overall influenza hospital admission rates per 100,000 trust catchment population with MEM thresholds, SARI Watch, England

* MEM thresholds are based on data from the 2016 to 2017 to the 2021 to 2022 seasons (data from 2020 to 2021 was excluded due to the COVID-19 pandemic).
**Figure 42: Weekly influenza hospital admissions by influenza type, SARI Watch, England**

*Number of influenza hospital admissions based on sentinel NHS trusts*
Figure 43: Weekly hospital admission rate by UKHSA centre for new (a) COVID-19 positive cases and (b) influenza reported through SARI Watch*

(a)

(b)

* Rates in some regions may not include all influenza surveillance sentinel sites from week to week.
Figure 44: Weekly hospital admission rate by age group for new (a) COVID-19 positive cases and (b) influenza reported through SARI Watch

(a)

(b)
ICU or HDU admissions, SARI Watch

In week 13 (ending 2 April 2023), the overall weekly ICU or HDU admission rates for COVID-19 remained low with small fluctuations. The rate in week 13 was 0.27 per 100,000, compared to 0.29 per 100,000 in the previous week. Note that ICU or HDU admissions rates may represent a lag from admission to hospital to an ICU or HDU ward.

By UKHSA centre, the highest ICU or HDU admission rates for COVID-19 were observed in London. By age group, the highest ICU or HDU admission rates for COVID-19 were observed in the 75 to 84 year olds.

In week 13, the overall ICU or HDU rate for influenza remained stable at 0.04 per 100,000 compared to 0.05 per 100,000 in the previous week. The rate in the latest week remained within baseline activity levels. There were 16 new case reports of an ICU or HDU admission for influenza in week 13 (3 influenza A(not subtyped) and 13 influenza B).

Figure 45: Weekly overall ICU or HDU admission rates of new COVID-19 and influenza positive cases per 100,000 population reported through SARI Watch, England

* Influenza ICU or HDU admission rate based on 91 NHS trusts for week 13
* COVID-19 ICU or HDU admission rate based on 83 NHS trusts for week 13
* SARI Watch data is provisional
Figure 46: Weekly overall influenza ICU or HDU admission rates per 100,000 trust catchment population with MEM thresholds, SARI Watch, England
Figure 47: Weekly influenza ICU or HDU admissions by influenza type, SARI Watch, England

- B
- A(unknown subtype)
- A(H3N2)
- A(H1N1)pdm09
Figure 48: Weekly ICU or HDU admission rate by UKHSA centre for new (a) COVID-19 positive cases and (b) influenza, reported through SARI Watch
Figure 49: Weekly ICU or HDU admission rate by age group for new (a) COVID-19 positive cases and (b) influenza, reported through SARI Watch

(a)

(b)
ECMO, SARI Watch

There were no new ECMO admissions in adults reported in week 13 from the 7 Severe Respiratory Failure (SRF) centres in the UK (Figure 50).

Figure 50: Laboratory confirmed ECMO admissions in adults (COVID-19, influenza and non-COVID-19 confirmed) to Severe Respiratory Failure centres in the UK

* SARI Watch data is provisional
RSV admissions, SARI Watch

Data on hospitalisations, including ICU or HDU admissions, with respiratory syncytial virus (RSV) are shown below. RSV SARI Watch surveillance is sentinel.

In week 13, the overall hospital admission rate for RSV continued to fluctuate at low levels. In week 13, the rate was 0.10 per 100,000 compared to 0.17 per 100,000 in the previous week. Hospital admission rates are fluctuating at low levels across all age groups.

Figure 51: Weekly overall hospital admission rates (including ICU or HDU) of RSV positive cases per 100,000 population reported through SARI Watch, England

* Please note that in previous seasons, RSV SARI Watch surveillance has run from week 40 to week 20. In the 2020 to 2021 season onwards this was extended to run throughout the year, to allow for surveillance of out-of-season trends.
Figure 52: Weekly hospitalisation (including ICU or HDU) admission rates by age group for new RSV cases reported through SARI Watch, England

* SARI Watch data is provisional

* Please note that rates are based on the number of hospitalised cases divided by the Trust catchment population, multiplied by 100,000
Emergency Department attendances, Syndromic surveillance

The Emergency Department Syndromic Surveillance System (EDSSS) monitors the daily visits in a network of emergency departments across England.

During week 13, attendances for covid-like illness decreased nationally across all age groups (Figure 53). Attendances for acute respiratory infection, influenza-like illness and acute bronchiolitis remained stable or decreased slightly nationally (Figures 54, 55 and 56). Please note, there has been no update in week 14 for acute bronchiolitis syndromic surveillance.

Please note: the COVID-19-like ED indicator is an underestimation of the number of COVID-19 attendances as it only includes attendances with a COVID-19-like diagnosis as their primary diagnosis. The EDSSS COVID-19-like indicator should therefore be used to monitor trends in ED attendances and not to estimate actual numbers of COVID-19 ED attendances. Remodelled EDSSS baselines have been refitted during week 6 to account for post-COVID-19 changes in health care seeking behaviour. Further information about these caveats is available from the Emergency Department Syndromic Surveillance bulletin.

Figure 53: Daily ED attendances for COVID-19-like infections, England (a) nationally, (b) by age group and (c) by UKHSA centre

(a)

EDSSS: covid-19-like 03/04/2022 to 02/04/2023

Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.
Weekly National Influenza and COVID-19 Report: week 14 report (up to week 13 data)

(b) EDSSS: covid-19-like by age (years) 03/04/2022 to 02/04/2023

NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.

(c) EDSSS: covid-19-like by region 03/04/2022 to 02/04/2023

NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.
Figure 54: Daily ED attendances for acute respiratory infection, England (a) nationally, (b) by age group and (c) by UKHSA centre

(a)

EDSSS: acute respiratory infection 03/04/2022 to 02/04/2023

Black line is 7 day moving average adjusted for bank holidays.
Black dotted line is baseline. Grey columns show weekends and bank holidays.

(b)

EDSSS: acute respiratory infection by age (years) 03/04/2022 to 02/04/2023

NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.
Figure 55: Daily ED attendances for influenza-like illness, England (a) nationally, (b) by age group and (c) by UKHSA centre
Figure 56: Daily ED attendances for acute bronchiolitis, England (a) nationally, (b) by age group and (c) by UKHSA centre*

(a)

EDSSS: acute bronchiolitis 27/03/2022 to 26/03/2023

Black line is 7 day moving average adjusted for bank holidays. Black dotted line is baseline. Grey columns show weekends and bank holidays.

(b)

EDSSS: acute bronchiolitis by age (years) 27/03/2022 to 26/03/2023

NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON. Black line is 7 day moving average adjusted for bank holidays.
EDSSS: acute bronchiolitis by region 27/03/2022 to 26/03/2023

North East  North West  Yorkshire and Humber

East Midlands  West Midlands  East of England

London  South East  South West

NOTE: SCALES MAY VARY IN EACH GRAPH TO ENABLE TREND COMPARISON.
Black line is 7 day moving average adjusted for bank holidays.
Black dotted line is baseline.

*Please note, there has been no update in week 14 for acute bronchiolitis syndromic surveillance.
Mortality surveillance

COVID-19 deaths

COVID-19 related deaths by the 28 day definition are reported below. This metric includes a death in a person with a positive COVID-19 test who died within (equal to or less than) 28 days of the first positive specimen date in the most recent episode of infection.

Figure 57: Number of deaths by week of death and time since a positive COVID-19 test (28 day definition), England*

*Data is shown by the week of death. This gives the most accurate analysis of this time progression, however, for the most recent weeks’ numbers more deaths are expected to be registered therefore this should be interpreted with caution.
Figure 58: Cumulative mortality rate of COVID-19 cases per 100,000 population tested under Pillars 1 and 2 for the weeks 10 to 13 by 28 day definition

Please note that the categories have changed since last week’s report.
Daily excess all-cause mortality (England)

Deaths occurring from 1 January 2020 to 15 March 2023 were assessed to calculate the daily excess above a baseline using age-group and region specific all cause deaths as provided daily by the General Register Office (GRO). The deaths were corrected to allow for delay to registration based on past data on these delays. The baseline until November 2020 was from the same day of the year in the previous 5 years plus or minus 7 days with an extrapolated time trend. The baseline from December 2020 to March 2021 only uses the same days +/- 7 days from the past 3 low flu years with no trend, and the baseline from April 2021 onwards is set to be the same as the previous years baseline. Along with the baseline 2 and 3 standard deviation (SD) limits shown (Figure 59).

Weeks in which at least 2 days exceeded the 3SD threshold are shown in Table 3 and the daily difference from the baseline by age and region is given in Figures 60 and 61.

Note that as this data is by date of death with delay corrections, numbers are subject to change each week, particularly for more recent days. The current week’s model supersedes models presented in previous week.

There was no excess mortality in week 12.

Note that level 3 heat-health alerts were issued for June 17 to 18, July 11 to 21, and August 9 to 16 2022, and a level 4 heat-health alert issued for July 18 to 19 2022.

Other measures of excess mortality published by UKHSA are the Fingertips excess mortality in England report, which uses ONS death registration data and the all-cause mortality surveillance report, which uses the EuroMOMO model to measure excess deaths.
Figure 59: Daily excess all-cause deaths in all ages, England, 1 January 2020 to 29 March 2023

^Baseline calculation:
- January to November 2020: same day in previous 5 years plus or minus 1 week with a linear trend
- December 2020 to March 2021: past 3 low flu years plus or minus 2 weeks, no trend
- March 2021 onwards: same baseline as 2020

*Corrected for delay to registration from death.
Table 3: Excess all-cause deaths by (a) age group and (b) UKHSA centres, England

(a)

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Excess detected in week 12 2023</th>
<th>Weeks in excess from week 10 to 53 2020</th>
<th>Weeks in excess from week 1 to 52 2021</th>
<th>Weeks in excess from week 1 to 52 2022</th>
<th>Weeks in excess from week 1 2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>No</td>
<td>13 to 21, 33, 43, 45, 50, 52 to 53</td>
<td>01 to 07, 29, 31 to 32, 35 to 36, 40 to 44, 48</td>
<td>14 to 15, 17 to 18, 23 to 24, 27 to 29, 31 to 33, 39 to 42, 49 to 52</td>
<td>01 to 02</td>
</tr>
<tr>
<td>under 25</td>
<td>No</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>25 to 44</td>
<td>No</td>
<td>14 to 16</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>45 to 64</td>
<td>No</td>
<td>12 to 19, 49 to 50, 52 to 53</td>
<td>01 to 08, 23, 29 to 30, 36, 41 to 44, 48 to 49</td>
<td>29, 31, 49 to 52</td>
<td>01</td>
</tr>
<tr>
<td>65 to 74</td>
<td>No</td>
<td>13 to 19, 46, 48, 52 to 53</td>
<td>01 to 07, 36, 43, 48</td>
<td>32, 50 to 52</td>
<td>01</td>
</tr>
<tr>
<td>75 to 84</td>
<td>No</td>
<td>13 to 21, 33, 45, 49, 52 to 53</td>
<td>01 to 07, 32, 36, 40, 42</td>
<td>14 to 18, 22 to 25, 28 to 29, 31 to 32, 36, 38 to 42, 49 to 52</td>
<td>01 to 02, 04, 10</td>
</tr>
<tr>
<td>85+</td>
<td>No</td>
<td>13 to 21, 33, 53</td>
<td>01 to 07, 31, 36</td>
<td>23, 28 to 29, 32, 39, 50 to 52</td>
<td>01 to 02, 11</td>
</tr>
<tr>
<td>UKHSA Centres</td>
<td>Excess detected in week 12 2023</td>
<td>Weeks in excess from week 10 to 53 2020</td>
<td>Weeks in excess from week 1 to 52 2021</td>
<td>Weeks in excess from week 1 to 52 2022</td>
<td>Weeks in excess from week 1 2023</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------------------------</td>
<td>----------------------------------------</td>
<td>---------------------------------------</td>
<td>---------------------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td>East of England</td>
<td>No</td>
<td>14 to 19, 52 to 53</td>
<td>01 to 07</td>
<td>23, 27, 29, 51 to 52</td>
<td>None</td>
</tr>
<tr>
<td>East Midlands</td>
<td>No</td>
<td>13 to 19, 48</td>
<td>01 to 07</td>
<td>29, 52</td>
<td>None</td>
</tr>
<tr>
<td>London</td>
<td>No</td>
<td>12 to 19, 33, 52 to 53</td>
<td>01 to 06, 36</td>
<td>29, 50 to 52</td>
<td>None</td>
</tr>
<tr>
<td>North East</td>
<td>No</td>
<td>14 to 21</td>
<td>02 to 04</td>
<td>52</td>
<td>01</td>
</tr>
<tr>
<td>North West</td>
<td>No</td>
<td>13 to 19, 33, 42 to 47</td>
<td>01 to 07, 31 to 32, 36, 43</td>
<td>14 to 15, 29 to 30, 32, 39, 42, 50 to 52</td>
<td>01 to 02</td>
</tr>
<tr>
<td>South East</td>
<td>No</td>
<td>13 to 21, 33, 50 to 53</td>
<td>01 to 07, 36, 41, 49</td>
<td>14, 28, 32, 40 to 42, 49 to 52</td>
<td>01 to 02</td>
</tr>
<tr>
<td>South West</td>
<td>No</td>
<td>13 to 19, 33</td>
<td>02 to 07, 29, 36</td>
<td>17 to 18, 29, 32, 34, 39, 50 to 52</td>
<td>01</td>
</tr>
<tr>
<td>West Midlands</td>
<td>No</td>
<td>13 to 20, 45, 48</td>
<td>01 to 07, 29, 36, 40, 48</td>
<td>13, 28 to 29, 32, 41 to 42, 49, 51 to 52</td>
<td>01</td>
</tr>
<tr>
<td>Yorkshire and Humber</td>
<td>No</td>
<td>14 to 21, 23, 43 to 50</td>
<td>02 to 04, 32, 35 to 36</td>
<td>15, 29, 32, 42, 50 to 52</td>
<td>01</td>
</tr>
</tbody>
</table>
Figure 60: Daily excess all-cause deaths by age group, England, 1 January 2022 to 29 March 2023

(a) Daily excess deaths by age group, England, 1 January 2022 to 29 March 2023

(b) Daily excess deaths by age group, England, 1 January 2022 to 29 March 2023
Figure 61: Daily excess all-cause deaths by UKHSA centre, England, 1 January 2022 to 29 March 2023

(a) East of England, London, South East, South West

(b) East Midlands, North East, North West, West Midlands, Yorkshire and Humber
Microbiological surveillance

Influenza virus characterisation

UKHSA characterises the properties of influenza viruses through one or more tests, including genome sequencing (genetic analysis) and haemagglutination inhibition (HI) assays (antigenic analysis). These data are used to compare how similar the currently circulating influenza viruses are to the strains included in seasonal influenza vaccines, and to monitor for changes in circulating influenza viruses. The interpretation of genetic and antigenic data sources is complex due to a number of factors, for example, not all viruses can be cultivated in sufficient quantity for antigenic characterisation, so that viruses with sequence information may not be able to be antigenically characterised as well. Occasionally, this can lead to a biased view of the properties of circulating viruses, as the viruses which can be recovered and analysed antigenically, may not be fully representative of majority variants, and genetic characterisation data does not always predict the antigenic characterisation.

Between week 40 2022 and week 13 2023, the UKHSA Respiratory Virus Unit have genetically characterised, by sequencing of the haemagglutinin (HA) gene, 2,556 influenza A viruses (1,693 A(H3N2) and 863 A(H1N1)pdm09 viruses) and 114 influenza B viruses.

The 1,693 influenza A(H3N2) viruses genetically characterised, all belong in the genetic subclade 3C.2a1b.2a.2. The Northern Hemisphere 2022-23 influenza A(H3N2) vaccine strain (an A/Darwin/9/2021-like virus) also belongs in this 3C.2a1b.2a.2 genetic subclade.

The 863 influenza A(H1N1)pdm09 viruses characterised to date this season, all belong in genetic subgroup 6B.1A.5a.2. The Northern Hemisphere 2022/23 influenza A(H1N1)pdm09 vaccine strain (an A/Victoria/2570/2019-like virus) also belongs in genetic subclade 6B.1A.5a, within the 6B.1A.5a.2 cluster.

The 114 influenza B/Victoria lineage viruses have been genetically characterised, all belonging in subclade V1A3, within the subgroup V1A3a.2. The Northern Hemisphere 2022-23 influenza B/Victoria lineage vaccine strain (a B/Austria/1359417/2021-like virus) also belongs in this V1A3a.2 subclade/group.

The Respiratory Virus Unit has confirmed by genome sequencing the detection of live attenuated influenza vaccine (LAIV) viruses in two influenza A positive samples and nine influenza B positive samples collected since week 40, all from children aged between 2 and 16 years of age.
Influenza antiviral susceptibility

Influenza positive samples are genome sequenced and screened for mutations in the virus neuraminidase (NA) and the cap-dependent endonuclease (PA) genes known to confer neuraminidase inhibitor or baloxavir resistance, respectively. The samples tested are routinely obtained for surveillance purposes, but diagnostic testing of patients suspected to be infected with antiviral-resistant virus is also performed.

Influenza virus sequences from samples collected between weeks 40 2022 and 13 2023 have been analysed. Analysis of 1,490 A(H3N2) viruses by sequencing found one oseltamivir resistant virus with an E119V amino acid substitution present as a mixed population (80% E119V) collected from an adult, post-oseltamivir treatment, in January 2023. An R292K mutation was detected transiently, in a viral subpopulation (25%), and was undetectable in a sample taken 9 days later, while the E119V mutation was maintained over 19 days. The patient was not treated with zanamivir. Of 803 A(H1N1)pdm09 NA sequences analysed, one oseltamivir resistant virus with an H275Y amino acid substitution present as a mixed population (80% H275Y) was detected. The sample was collected from an immune compromised adult, post oseltamivir treatment, in December 2022. No viruses with known markers of resistance to neuraminidase inhibitors were detected in 110 influenza B NA sequences analysed.

No viruses with known markers of resistance to baloxavir marboxil were detected in 1,200 A(H3N2), 607 A(H1N1)pdm09 and 85 influenza B PA sequences analysed.

<table>
<thead>
<tr>
<th>(Sub)type</th>
<th>Neuraminidase Inhibitors</th>
<th>Baloxavir</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Susceptible</td>
<td>Reduced Susceptibility</td>
</tr>
<tr>
<td>A(H3N2)</td>
<td>1,489</td>
<td>1</td>
</tr>
<tr>
<td>A(H1N1)pdm09</td>
<td>802</td>
<td>1</td>
</tr>
<tr>
<td>B/Victoria-lineage</td>
<td>110</td>
<td>0</td>
</tr>
</tbody>
</table>
SARS-CoV-2 variants

UKHSA conducts genomic surveillance of SARS-CoV-2 variants.

This section provides an overview of new and current circulating variants in England.

Detailed surveillance of particular variants of concerns can be found in recent technical briefings.

Information on whole genome sequencing coverage can be found in the accompanying slide set.

The prevalence of different UKHSA-designated variants amongst sequenced episodes is presented in Figure 62.

To account for sequencing delays, we report the proportion of variants from sequenced episodes between 20 March 2023 and 26 March 2023. Of those sequenced in this period, 51.0% were classified as XBB.1.5 (V-23JAN-01), 25.2% as XBB (V-22OCT-02), 10.4% as CH.1.1 (V-22DEC-01), 6.6% as BQ.1 (V-22OCT-01), 1.9% as BA.2.75 (V-22JUL-01), 1.8% as BA.2 (V-22JAN-01), 0.5% as BA.5 (V-22APR-04), and 2.6% as Other.
Figure 62. Prevalence of SARS-CoV-2 variants amongst available sequences episodes for England from 4 April 2022 to 26 March 2023

The grey line indicates proportion of cases sequenced. The vertical dashed lines (red) denote changes in policies:
• April line denotes the start of England’s ‘Living with COVID’ Plan.
• End of August line denotes the change in asymptomatic testing

Note: Recombinants such as XD, are not specified but are largely within the ‘Other’ group currently as numbers are too small.
As of week 12 2023, XBB.1.5 remains the most commonly circulating variant in England (Table 5).

Table 5. Total distribution of SARS-CoV-2 variants detected in England in the last 12 weeks, up to week 12 (week ending 26 March 2023)

<table>
<thead>
<tr>
<th>Variant</th>
<th>Other names by which this variant is known</th>
<th>Total confirmed (sequencing) cases in the last 12 weeks</th>
<th>Last reported specimen date</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC-21NOV-01</td>
<td>Omicron BA.1</td>
<td>3</td>
<td>22/01/2023</td>
</tr>
<tr>
<td>V-22JAN-01</td>
<td>Omicron BA.2</td>
<td>785</td>
<td>26/03/2023</td>
</tr>
<tr>
<td>V-22APR-03</td>
<td>Omicron BA.4</td>
<td>7</td>
<td>16/02/2023</td>
</tr>
<tr>
<td>V-22APR-04</td>
<td>Omicron BA.5</td>
<td>1,141</td>
<td>25/03/2023</td>
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<tr>
<td>V-22JUL-01</td>
<td>Omicron BA.2.75</td>
<td>1,575</td>
<td>26/03/2023</td>
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<tr>
<td>V-22SEP-01</td>
<td>Omicron BA.4.6</td>
<td>61</td>
<td>23/02/2023</td>
</tr>
<tr>
<td>V-22OCT-01</td>
<td>Omicron BQ.1</td>
<td>11,392</td>
<td>26/03/2023</td>
</tr>
<tr>
<td>V-22OCT-02</td>
<td>Omicron XBB</td>
<td>5,150</td>
<td>26/03/2023</td>
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<tr>
<td>V-22DEC-01</td>
<td>Omicron CH.1.1</td>
<td>9,784</td>
<td>26/03/2023</td>
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<td>V-23JAN-01</td>
<td>Omicron XBB.1.5</td>
<td>14,090</td>
<td>26/03/2023</td>
</tr>
</tbody>
</table>

*Sequencing data has a lag of approximately two weeks therefore the presented numbers should be interpreted in this context
*Cumulative numbers may be revised up or down as a results of reclassification of results, re-infections and changes to diagnostic tests, new variants, or public health management levels
*Confirmed individuals are confirmed COVID-19 cases with a validated sequencing result meeting the confirmed case definitions
Antimicrobial susceptibility

Table 6 shows in the 12 weeks up to week 13 2023, the proportion of all lower respiratory tract isolates of *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Staphylococcus aureus*, MRSA (Methicillin-resistant *Staphylococcus aureus*) and MSSA (methicillin-susceptible *Staphylococcus aureus*) tested and susceptible to antibiotics. These organisms are the important causes of community-acquired pneumonia (CAP), and the choice of antibiotics reflects the British Thoracic Society empirical guidelines for management of CAP in adults.

Table 6: Antimicrobial susceptibility surveillance in lower respiratory tract

<table>
<thead>
<tr>
<th>Organism</th>
<th>Antibiotic</th>
<th>Specimens tested(^{‡}) (N)</th>
<th>Specimens susceptible (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>S. pneumoniae</em></td>
<td>Penicillin</td>
<td>3,385</td>
<td>88</td>
</tr>
<tr>
<td></td>
<td>Macrolides</td>
<td>3,822</td>
<td>83</td>
</tr>
<tr>
<td></td>
<td>Tetracycline</td>
<td>3,570</td>
<td>83</td>
</tr>
<tr>
<td><em>H. influenzae</em></td>
<td>Amoxicillin/ampicillin</td>
<td>20,628</td>
<td>39</td>
</tr>
<tr>
<td></td>
<td>Co-amoxiclav</td>
<td>25,406</td>
<td>46</td>
</tr>
<tr>
<td></td>
<td>Macrolides</td>
<td>4,855</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Tetracycline</td>
<td>24,529</td>
<td>98</td>
</tr>
<tr>
<td><em>S. aureus</em></td>
<td>Methicillin</td>
<td>6,918</td>
<td>93</td>
</tr>
<tr>
<td></td>
<td>Macrolides</td>
<td>8,233</td>
<td>70</td>
</tr>
<tr>
<td>MRSA</td>
<td>Clindamycin</td>
<td>334</td>
<td>51</td>
</tr>
<tr>
<td></td>
<td>Tetracycline</td>
<td>412</td>
<td>76</td>
</tr>
<tr>
<td>MSSA</td>
<td>Clindamycin</td>
<td>4,727</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>Tetracycline</td>
<td>5,581</td>
<td>93</td>
</tr>
</tbody>
</table>

* Macrolides = erythromycin, azithromycin and clarithromycin

\(^{‡}\) Specimen types = lower respiratory tract, bronchial, lung, alveolar lavage, pleura, chest, sputum, endotracheal aspirate, and pleural fluid

Data source: UKHSA’s SGSS AMR module, please note that this is different to the data source used in the reports published between weeks 41 2020 to 05 2021 inclusive of the 2020/21 influenza season when the SGSS CDR module was used instead due to a PHE (now UKHSA) SGSS AMR data infrastructure issue which has now been resolved. Therefore, the above results are not directly comparable to the results reported between weeks 41 2020 and 05 2021. The AMR module of SGSS was used during the 2019/20 influenza season.
COVID-19 vaccination

Please note that we are pausing the update for this section whilst we prepare for the Spring 2023 vaccination campaign which will begin from the 3 April 2023.

COVID-19 vaccine uptake in England

COVID-19 vaccinations began in England on 8 December 2020 during week 50 2020 (week ending 13 December 2020). Cumulative data up to week 10 2023 (week ending 12 March 2023) was extracted from the National Immunisation Management Service (NIMS). The data presented this week is the provisional proportion of living people resident in England who had received COVID-19 vaccinations. Individuals vaccinated in England who have a registered address outside of England or where their address, age, or sex is unknown have been excluded. Due to changes in GP practice lists, in order to include newly registered patients and remove those who are no longer resident, there will be slight variation to the figures to reflect those who are currently resident in England.

Age is calculated on the date data is extracted. The weekly vaccine coverage data is extracted on a Tuesday with data capped to the previous Sunday and all backing data is updated each week going back to the start of the programme.

Data is provisional and subject to change following further validation checks. Any changes to historic figures will be reflected in the most recent publication. Please note that numbers published by UKHSA are for public health surveillance purposes only.

Autumn Booster Campaign

Immunity derived from vaccination declines over time and following on from the Spring campaign, the JCVI has recommended an Autumn Booster campaign with the primary objective to boost immunity in those at higher risk from COVID-19 and thereby optimise protection against severe COVID-19, specifically hospitalisation and death, over winter 2022 to 2023.

The Autumn booster data reported below covers any booster dose administered from the 1 September 2022 provided there is at least 3 months from the previous dose. Eligible groups for the Autumn booster campaign are defined in the COVID-19 healthcare guidance Green Book and include residents in a care home for older adults, staff working in care homes for older adults, frontline health and social care workers, all adults aged 50 years and over, persons aged 5 to 49 years in a clinical risk group, household contacts of people with immunosuppression, and carers.

Table 7 presents coverage as measured against the total population and includes people who are not yet due to have their Autumn booster. It is important that unvaccinated individuals, especially vulnerable adults, receive a primary course of vaccination, irrespective of whether individuals have had previous infection. To understand the data in the context of vaccine waning
across the whole COVID-19 programme, we present Table 8 which shows how recently a person who is living and resident in England has been vaccinated either through the primary vaccination campaign or a subsequent booster campaign. Now that the Autumn booster campaign has ended, we have removed tables related to the eligible population at the end of December 2022, and the immunosuppression cohort. We will provide new data on the anticipated Spring booster campaign when data becomes available.

By the end of week 10 2023 (week ending 12 March 2023), 65.7% (15,098,879 out of 22,970,162) of all people aged over 50 years old who are living and resident in England who had been vaccinated with an Autumn booster dose since 1 September 2022, Table 7 and Figure 63. Vaccine uptake of those aged over 80 years old was 83.8% (2,469,906 out of 2,948,380).

### Table 7: Provisional cumulative people vaccinated by age with a booster of COVID-19 vaccine from the 1 September 2022 as part of the Autumn booster campaign in England**

<table>
<thead>
<tr>
<th>National</th>
<th>People in NIMS cohort who are living and resident in England</th>
<th>Vaccinated with an Autumn booster since 1 September 2022*</th>
<th>Percentage vaccine uptake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over 80</td>
<td>2,948,380</td>
<td>2,469,906</td>
<td>83.8</td>
</tr>
<tr>
<td>75 to under 80</td>
<td>2,414,946</td>
<td>2,018,140</td>
<td>83.6</td>
</tr>
<tr>
<td>70 to under 75</td>
<td>2,681,947</td>
<td>2,148,906</td>
<td>80.1</td>
</tr>
<tr>
<td>65 to under 70</td>
<td>2,998,038</td>
<td>2,192,140</td>
<td>73.1</td>
</tr>
<tr>
<td>60 to under 65</td>
<td>3,637,027</td>
<td>2,278,631</td>
<td>62.7</td>
</tr>
<tr>
<td>55 to under 60</td>
<td>4,129,437</td>
<td>2,198,448</td>
<td>53.2</td>
</tr>
<tr>
<td>50 to under 55</td>
<td>4,160,387</td>
<td>1,792,708</td>
<td>43.1</td>
</tr>
<tr>
<td>Aged 50 and over</td>
<td>22,970,162</td>
<td>15,098,879</td>
<td>65.7</td>
</tr>
</tbody>
</table>

*Autumn booster defined as any additional dose of vaccine after a 2 dose primary course provided there is an interval of at least 3 months, and it is given since the 1 September 2022.

**Please note this table was last updated in the week 11 report (data up to week 10).
Figure 63: Cumulative weekly COVID-19 vaccine uptake by age in those who are living and resident in England for those vaccinated with an Autumn booster since 1 September 2022*

*Please note this figure was last updated in the week 11 report (data up to week 10).
Proportion of people vaccinated by time since last vaccination

Table 8: Provisional cumulative people vaccinated with any dose of COVID-19 vaccine in the last 3 months, 3 to 6 months and vaccinated more than 6 months ago*

<table>
<thead>
<tr>
<th>National</th>
<th>People in NIMS cohort who are living and resident in England</th>
<th>Vaccinated in the last 3 months (84 days)</th>
<th>Vaccinated 3 to 6 months ago (85 to 168 days)</th>
<th>Vaccinated 6 months ago (169 or more days)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Numbers vaccinated</td>
<td>Percentage vaccinated</td>
<td>Numbers vaccinated</td>
</tr>
<tr>
<td>Over 80</td>
<td>2,948,379</td>
<td>30,161</td>
<td>1.0</td>
<td>1,601,777</td>
</tr>
<tr>
<td>75 to under 80</td>
<td>2,414,946</td>
<td>24,218</td>
<td>1.0</td>
<td>1,342,809</td>
</tr>
<tr>
<td>70 to under 75</td>
<td>2,681,947</td>
<td>25,497</td>
<td>1.0</td>
<td>1,660,357</td>
</tr>
<tr>
<td>65 to under 70</td>
<td>2,998,038</td>
<td>32,958</td>
<td>1.1</td>
<td>1,819,359</td>
</tr>
<tr>
<td>60 to under 65</td>
<td>3,637,027</td>
<td>60,903</td>
<td>1.7</td>
<td>2,104,436</td>
</tr>
<tr>
<td>55 to under 60</td>
<td>4,129,437</td>
<td>80,489</td>
<td>1.9</td>
<td>2,023,489</td>
</tr>
<tr>
<td>50 to under 55</td>
<td>4,160,387</td>
<td>101,721</td>
<td>2.4</td>
<td>1,618,083</td>
</tr>
<tr>
<td>45 to under 50</td>
<td>3,868,231</td>
<td>41,326</td>
<td>1.1</td>
<td>483,408</td>
</tr>
<tr>
<td>40 to under 45</td>
<td>4,353,677</td>
<td>34,002</td>
<td>0.8</td>
<td>379,299</td>
</tr>
<tr>
<td>35 to under 40</td>
<td>4,658,685</td>
<td>31,568</td>
<td>0.7</td>
<td>315,470</td>
</tr>
<tr>
<td>30 to under 35</td>
<td>4,783,825</td>
<td>30,220</td>
<td>0.6</td>
<td>265,882</td>
</tr>
<tr>
<td>25 to under 30</td>
<td>4,404,988</td>
<td>25,245</td>
<td>0.6</td>
<td>197,374</td>
</tr>
<tr>
<td>20 to under 25</td>
<td>3,823,570</td>
<td>19,588</td>
<td>0.5</td>
<td>134,165</td>
</tr>
<tr>
<td>18 to under 20</td>
<td>1,399,061</td>
<td>10,150</td>
<td>0.7</td>
<td>40,394</td>
</tr>
<tr>
<td>16 to under 18</td>
<td>1,411,538</td>
<td>16,434</td>
<td>1.2</td>
<td>45,324</td>
</tr>
<tr>
<td>12 to under 16</td>
<td>2,972,034</td>
<td>22,040</td>
<td>0.7</td>
<td>71,217</td>
</tr>
<tr>
<td>5 to under 12</td>
<td>5,011,923</td>
<td>36,742</td>
<td>0.7</td>
<td>108,107</td>
</tr>
</tbody>
</table>

Table 8 is presented to provide an overview of how recently a person has been vaccinated either through the primary vaccination campaign or subsequent booster campaigns. This helps us understand the data in the context of vaccine waning across the whole COVID-19 programme. Breakdowns by Ethnicity, and IMD, by age can be found in the backing tables.

*Please note this table was last updated in the week 11 report (data up to week 10).
Figure 64: Provisional cumulative people vaccinated with any dose of COVID-19 vaccine in the last 3 months, 3 to 6 months and vaccinated more than 6 months ago*

*Please note this figure was last updated in the week 11 report (data up to week 10).
Figure 65: Provisional data on the proportion of people vaccinated with any dose of COVID-19 vaccine in the last 3 months, 3 to 6 months and vaccinated more than 6 months ago by ethnicity in those living and resident in England, aged 50 and over*

*Please note this figure was last updated in the week 11 report (data up to week 10)
Figure 66: Provisional cumulative people vaccinated with any dose of COVID-19 vaccine in the last 3 months, 3 to 6 months and vaccinated more than 6 months ago by indices of multiple deprivation (IMD)* in those living and resident in England, aged 50 and over**

*Decile 1 represents the most deprived 10% (or decile) of small areas in England and Decile 10 represents the least deprived 10% (or decile) of small areas in England.

**Please note this figure was last updated in the week 11 report (data up to week 10)

For a regional breakdown of the ethnicity data, please see the data file that accompanies this report.
Detailed information on the NHS Digital characterisation of the immunosuppressed group can be found on the NHS Digital website.

For COVID-19 data on the real-world effectiveness of the COVID-19 vaccines, and on COVID-19 vaccination in pregnancy, please see the COVID-19 vaccine surveillance reports.

For COVID-19 management information on the number of COVID-19 vaccinations provided by the NHS in England, please see the COVID-19 vaccinations webpage.

For UK COVID-19 daily vaccination figures and definitions, please see the Vaccinations' section of the UK COVID-19 dashboard.

The population coverage data representing the evergreen offer of doses 1, 2, and 3 has changed little in recent months and are no longer presented in both the UKHSA weekly flu and COVID-19 surveillance reports and in the UK COVID-19 Dashboard. Both the UKHSA weekly flu and COVID-19 surveillance reports and in the UK COVID-19 Dashboard now highlight data on the most recent vaccination campaign in those at higher risk from COVID-19 as immunity derived from vaccination declines over time. The overall vaccine uptake in the living and resident population for those with at least dose 1, 2 and 3 doses is still available within the backing tables for this section and in the dashboard APIs.

For a summary of the differences in denominators used to present administrative vaccine uptake by NHS England and vaccine coverage by UKHSA since the start of the COVID-19 programme, please see explainer here. Please note that some administrative vaccine uptake data uses an ONS mid-year estimate as a denominator because not all devolved administrations have a national vaccine register. Please note that not everyone in the numerator will be in the denominator for administrative vaccine uptake where ONS mid-year estimates are used.
International update

Global COVID-19 update

For further information on the global COVID-19 situation please see the World Health Organization (WHO) COVID-19 situation reports.

Global influenza update

Updated 3 April 2023 (based on data up to 19 March 2023) (WHO website).

Globally, influenza detections decreased steeply in January after a peak in late 2022. Detections in 2022 were predominantly influenza A(H3N2). Since the end of January 2023, activity increased again with an increased proportion of influenza A(H1N1)pdm09 and B virus detections, and detections appear to have decreased in the most recent week.

In the countries of North America, most indicators of influenza activity were at levels typically observed towards the end of the season. Influenza A viruses predominated overall, with influenza A(H1N1)pdm09 accounting for the majority of subtyped influenza A viruses in the United States of America (USA), whereas influenza B viruses predominated in Canada.

In Europe, overall influenza detections decreased and influenza positivity from sentinel sites was stable and remained above the epidemic threshold at the regional level. Out of 37 countries, 16 reported medium intensity with the remainder reporting low or below baseline intensity. 18 of 36 countries reported widespread activity. Overall, influenza B viruses predominated in both sentinel and non-sentinel surveillance as all subregions experienced a wave of influenza B activity after an initial influenza A wave. Influenza detections decreased or were stable in most countries except in Denmark, Iceland, Lithuania, Luxembourg and Germany where slight increases were reported.

In Central Asia, influenza activity decreased overall.

In Northern Africa, influenza detections were very low across reporting countries.

In Western Asia, influenza activity continued to be reported in some countries with detections of all seasonal influenza subtypes.

In East Asia, influenza activity of predominantly A(H1N1)pdm09 steeply increased in China but decreased in the other reporting countries.
In the Caribbean and Central American countries, influenza activity of mainly influenza B/Victoria lineage viruses remained low in most reporting countries. Increases in influenza activity were reported in Belize, El Salvador and Guatemala where activity increased to moderate levels.

In the tropical countries of South America, influenza remained low with all seasonal subtypes detected and influenza B viruses predominant. Slight increased trends in influenza activity and detections were reported in Bolivia and Brazil.

In tropical Africa, influenza activity increased in some countries of Western Africa while detections were low across reporting countries in Middle and Eastern Africa.

In Southern Asia, influenza activity remained low with influenza A(H3N2) and B/Victoria lineage viruses predominant.

In South-East Asia, influenza activity remained elevated with influenza B mainly detected in Malaysia and A(H3N2) in Singapore and Thailand.

In the temperate zones of the southern hemisphere, influenza activity remained low.

The WHO GISRS laboratories tested more than 349,552 specimens during that time period. 46,911 were positive for influenza viruses, of which 34,346 (73.2%) were typed as influenza A and 12,565 (26.8%) as influenza B. Of the sub-typed influenza A viruses, 20,264 (70.3%) were influenza A(H1N1)pdm09 and 8,560 (29.7%) were influenza A(H3N2). Of the characterized B viruses, 100% (1,479) belonged to the B/Victoria lineage.
Influenza in Europe

Updated data for week 12 2023 (Joint ECDC-WHO Europe Influenza weekly update).

The percentage of all sentinel primary care specimens from patients presenting with ILI or ARI symptoms that tested positive for an influenza virus decreased to 22% in week 12 2023 from 24% in the previous week and remaining above the epidemic threshold (10%).

Of 37 countries and areas reporting on geographic spread of influenza viruses, 4 reported no activity (Azerbaijan, Kazakhstan, Kyrgyzstan and Uzbekistan), 5 reported sporadic spread (Belgium, Bulgaria, Israel, North Macedonia and United Kingdom (Northern Ireland)), 3 reported local spread (Belarus, Malta and Slovakia), 5 reported regional spread (Lithuania, Moldova, Romania, Serbia and Kosovo) and 20 reported widespread activity (across the Region).

For week 12 2023, 664 (22%) of 3,048 sentinel specimens tested positive for an influenza virus; 82% were type B and 18% were type A. Of 95 subtyped A viruses, 80% were A(H1)pdm09 and 20% A(H3). All 153 type B viruses ascribed to a lineage were B/Victoria. Of 29 countries and areas across the Region that each tested at least 10 sentinel specimens in week 12/2023, 20 reported a rate of influenza virus detections above 10%: Hungary (54%), Luxembourg (35%), Germany (31%), France (30%), Slovakia (29%), Denmark (27%), Armenia (26%), Poland (25%), Spain (24%), Serbia (21%), Italy (21%), Slovenia (20%), Kosovo (20%), Estonia (19%), Republic of Moldova (17%), Netherlands (17%), Ukraine (16%), Norway (15%), Switzerland (14%) and Czechia (11%).

For the season to date, 25,565 (24%) of 108,535 sentinel specimens tested positive for an influenza virus. More influenza type A (n=18,846, 74%) than type B (n=6,719, 26%) viruses have been detected. Of 15,283 subtyped A viruses, 9,872 (65%) were A(H3) and 5,411 (35%) were A(H1)pdm09. All 1,975 influenza type B viruses ascribed to a lineage were B/Victoria (71% of type B viruses were reported without a lineage).

For week 12 2023, 5,494 of 53,283 specimens from non-sentinel sources (such as hospitals, schools, primary care facilities not involved in sentinel surveillance, or nursing homes and other institutions) tested positive for an influenza virus; 3,793 (69%) were type B and 1,701 (31%) were type A. Of 182 subtyped A viruses, 146 (80%) were A(H1)pdm09 and 36 (20%) A(H3). All 241 type B viruses ascribed to a lineage were B/Victoria.

For the season to date, more influenza type A (n=188,577, 78%) than type B (n=53,483, 22%) viruses have been detected. Of 55,093 subtyped A viruses, 30,323 (55%) were A(H1)pdm09 and 24,770 (45%) were A(H3). Of the 3,795 influenza type B viruses ascribed to a lineage, all but one were B/Victoria (93% of type B viruses were reported without a lineage).
Influenza in North America

For further information on influenza in the United States of America please see the [Centre for Disease Control weekly influenza surveillance report](https://www.cdc.gov/flu/weekly/). For further information on influenza in Canada please see the [Public Health Agency weekly influenza report](https://www.phac-aspc.gc.ca/influenza). 

Influenza in Australia

For further information on influenza in Australia please see the [Australian Influenza Surveillance Report and Activity Updates](https://www.aicsr.org.au/).
Other respiratory viruses

Avian influenza and other zoonotic influenza

Latest WHO update on 3 March 2023

From 27 January to 3 March 2023, 3 human cases of infection with influenza A(H5N1) viruses, 1 human case of infection with an influenza A(H5N6) virus and 2 human cases of infection with influenza A(H9N2) viruses were reported officially. Additionally, 2 human cases of infection with influenza A(H9N2) viruses and 2 human cases of infection with influenza A(H1N1) variant viruses were detected.

The overall public health risk from currently known influenza viruses at the human-animal interface has not changed, and the likelihood of sustained human-to-human transmission of these viruses remains low. Human infections with viruses of animal origin are expected at the human-animal interface wherever these viruses circulate in animals.

Latest UKHSA avian influenza technical briefing 29 March 2023

On 29 March 2023, the Chile International Health Regulation (IHR) National Focal Point (NFP) reported the detection of a human infection caused by avian influenza A(H5) virus to the Pan American Health Organization/World Health Organization (PAHO/WHO). More information regarding this case is available here.

See also the WHO Disease Outbreak News Reports for more information.

Middle East respiratory syndrome coronavirus (MERS-CoV)

From April 2012 to February 2023, a total of 2,604 laboratory-confirmed cases of MERS-CoV and 936 associated deaths were reported globally to WHO under the International Health Regulations (IHR 2005).

Between 29 December 2021 and 31 October 2022, four laboratory-confirmed cases of MERS-CoV were reported to WHO by the Ministry of Health of the Kingdom of Saudi Arabia. No deaths were reported (WHO website).

On 28 April 2022, the National IHR Focal point of Oman notified WHO of one case of MERS-CoV in Oman (WHO website).

Between 22 March and 3 April 2022, the National IHR Focal Point of Qatar reported 2 laboratory-confirmed cases of Middle East respiratory syndrome coronavirus (MERS-CoV) infection to the WHO (WHO website).
A total of 5 cases of Middle East respiratory syndrome coronavirus, MERS-CoV, (3 imported and 2 linked cases) have been confirmed in the UK through ongoing surveillance since September 2012.

Further information on management and guidance of possible cases is available online. The latest ECDC MERS-CoV risk assessment highlights that risk of widespread transmission of MERS-CoV remains very low.
Related links

Previous national COVID-19 reports
Previous weekly influenza reports
Annual influenza reports
COVID-19 vaccine surveillance reports
Previous COVID-19 vaccine surveillance reports
Public Health England (PHE) monitoring of the effectiveness of COVID-19 vaccination
Investigation of SARS-CoV-2 variants of concern: technical briefings
Sources of surveillance data for influenza, COVID-19 and other respiratory viruses

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Regulation 3 makes provision for the processing of patient information for the recognition, control and prevention of communicable disease and other risks to public health.
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