Influenza activity in the United Kingdom is monitored using a variety of surveillance systems. The National Influenza Report which interprets the data is published weekly.

National and subnational outputs from the various surveillance systems are grouped according to the following categories:

- Community influenza surveillance
- Influenza-like illness GP consultation rates
- Influenza-confirmed hospitalisations
- All-cause mortality
- Microbiological surveillance
- Influenza vaccination

Influenza Section
Immunisations and Countermeasures Division
Centre for Infectious Disease Surveillance and Control
Public Health England
respсидsc@phe.gov.uk
Community influenza surveillance
Number of acute respiratory outbreaks by institution, UK

Week of report

Number

Care home
Hospital
School
Other

2017/18 - total no. of outbreaks

10 January 2019

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## Number of acute respiratory outbreaks by PHE Centre

<table>
<thead>
<tr>
<th>Centre</th>
<th>Outbreaks reported in week 52</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>PHE North West</td>
<td>12</td>
<td>71</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>6</td>
<td>24</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>8</td>
<td>40</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>14</td>
<td>43</td>
</tr>
<tr>
<td>PHE East of England</td>
<td>18</td>
<td>80</td>
</tr>
<tr>
<td>PHE London</td>
<td>4</td>
<td>17</td>
</tr>
<tr>
<td>PHE South East</td>
<td>18</td>
<td>46</td>
</tr>
<tr>
<td>PHE South West</td>
<td>10</td>
<td>56</td>
</tr>
</tbody>
</table>
Influenza-like illness GP consultation rates
RCGP ILI consultation rate, England

ILI rate per 100,000

Week number

<13.1 Baseline threshold 13.1 to <24.7 Low 24.7 to <72.1 Medium
72.1 to <115.6 High 115.6+ Very high

2010-11
2017-18
2018-19
GP ILI consultations in the UK for all ages with MEM 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>4.2</td>
</tr>
<tr>
<td>Wales</td>
<td>7.0</td>
</tr>
<tr>
<td>Scotland</td>
<td>7.1</td>
</tr>
<tr>
<td>Northern Ireland</td>
<td>3.8</td>
</tr>
</tbody>
</table>

Influenza-confirmed hospitalisations
Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population, England, since week 40 2018

*The Moving Epidemic Method (MEM) has been adopted by the European Centre for Disease Prevention and Control to calculate thresholds for ICU/HDU admission rates for the start of influenza activity (based on 6 seasons) in a standardised approach across Europe. For MEM threshold values, please visit: https://www.gov.uk/guidance/sources-of-uk-flu-data-influenza-surveillance-in-the-uk#disease-severity-and-mortality-data*
Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population by PHE Centre, North East, North West and Yorkshire and Humber, since week 40 2018
Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population by PHE Centre, East Midlands, West Midlands and East of England since week 40 2018

Week Number

Rate of ICU/HDU admissions per 100,000 trust catchment population

2018/19 - East Midlands
2018/19 - West Midlands
2018/19 - East of England
Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population by PHE Centre, South East, South West and London, since week 40 2018

- 2018/19 - South East
- 2018/19 - South West
- 2018/19 - London
Influenza confirmed ICU admissions (USISS mandatory) by age and influenza subtype, since week 40 2018

![Bar chart showing influenza confirmed ICU admissions by age and subtype](chart.png)
Weekly hospitalised influenza case rate per 100,000 trust catchment population, England, since week 40 2018

Weekly hospitalised influenza admission rate per 100,000 trust catchment population by PHE region, since week 40 2018

NB: due to technical issues the PHE region breakdown is not available for week 01
Influenza confirmed hospital admissions (USISS sentinel) by age and influenza subtype, since week 40 2018

0
50
100
150
200
250
300
350
400
450
500

Number

A(H1N1)pdm09  A(H3N2)  A unknown subtype  B

<1  1-4  5-14  15-44  45-64  65+

Age group (years)

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All-cause mortality
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in 65+ year olds, England
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE North of England

Number of deaths by week of death and influenza season:
- 2014/15: A(H3N2)
- 2015/16: A(H1N1)pdm09
- 2016/17: A(H3N2)
- 2017/18: B and A(H3N2)

Number of deaths (corrected), baseline, and upper 2 and 6 z-score limits are shown.
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE Midlands and East of England

- **2014/15**: A(H3N2)
- **2015/16**: A(H1N1)pdm09
- **2016/17**: A(H3N2)
- **2017/18**: B and A(H3N2)

**Number of deaths**

- Deaths (corrected)
- Baseline
- Upper 2 z-score limit
- Upper 6 z-score limit
- Upper 8 z-score limit

**Year week**

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Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE London

Number of deaths

Year week

2014/15
A(H3N2)

2015/16
A(H1N1)pdm09

2016/17
A(H3N2)

2017/18
B and A(H3N2)

Deaths (corrected)
Baseline
Upper 2 z-score limit
Upper 6 z-score limit

0 200 400 600 800 1000 1200 1400 1600


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Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE South of England
Microbiological surveillance
DataMart: Number and proportion of samples positive for influenza, by type, England

Week number (of sample)

Number of positive specimens

Proportion positive

Influenza A (n)
Influenza B (n)
Total influenza (%)
2017/18 total influenza (%)
DataMart: Number and proportion of samples positive for influenza, by type, PHE North East of England

- **FluA (n)**
- **FluB (n)**
- **Influenza A (%)**
- **Influenza B (%)**

Week number (of sample) vs. Proportion positive (%) vs. Number of positive samples
DataMart: Number and proportion of samples positive for influenza, by type, PHE North West of England
DataMart: Number and proportion of samples positive for influenza, by type, PHE Yorkshire and Humber
DataMart: Number and proportion of samples positive for influenza, by type, PHE East Midlands of England
DataMart: Number and proportion of samples positive for influenza, by type, PHE West Midlands of England

Week number (of sample)

Proportion positive (%)

Number of positive samples

FluA (n)

Influenza A (%)  

FluB (n)

Influenza B(%)
DataMart: Number and proportion of samples positive for influenza, by type, PHE East of England
DataMart: Number and proportion of samples positive for influenza, by type, PHE London

- FluA (n)
- Influenza A (%)
- FluB (n)
- Influenza B(%)
DataMart: Number and proportion of samples positive for influenza, by type, PHE South East of England

Week number (of sample)

Number of positive samples

Proportion positive (%)

FluA (n)  FluB (n)

Influenza A (%)  Influenza B(%)
DataMart: Number and proportion of samples positive for influenza, by type, PHE South West of England
DataMart: Proportion of samples positive for influenza, by age group

Week number

Proportion positive

65+yrs
45-64yrs
15-44yrs
5-14yrs
<5yrs

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DataMart: Proportion of samples positive for other viruses

Proportion positive

Week number

- Rhinovirus
- Parainfluenza
- hMPV
- Adenovirus
Influenza vaccination
Seasonal influenza vaccine uptake in targeted groups, 2018/19, England

2018/19 season indicated by bold lines, 2017/18 season indicated by fainter dashed lines
Seasonal influenza vaccine uptake in targeted groups, 2018/19, England

2018/19 season indicated by bold lines, 2017/18 season indicated by fainter dashed lines
Links

• Sources of UK flu surveillance data:

• Weekly flu report