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
respscidsc@phe.gov.uk
Community influenza surveillance
Number of acute respiratory outbreaks by institution, UK

- Care home
- Hospital
- School
- Other

2017/18 - total no. of outbreaks

Number of outbreaks by week of report.
## Number of acute respiratory outbreaks by PHE Centre

<table>
<thead>
<tr>
<th>PHE 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>1</td>
<td>7</td>
</tr>
<tr>
<td>PHE North West</td>
<td>9</td>
<td>59</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>1</td>
<td>18</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>5</td>
<td>32</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>4</td>
<td>29</td>
</tr>
<tr>
<td>PHE East of England</td>
<td>7</td>
<td>62</td>
</tr>
<tr>
<td>PHE London</td>
<td>1</td>
<td>13</td>
</tr>
<tr>
<td>PHE South East</td>
<td>8</td>
<td>28</td>
</tr>
<tr>
<td>PHE South West</td>
<td>3</td>
<td>46</td>
</tr>
</tbody>
</table>
Influenza-like illness GP consultation rates
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>

NA refers to data not available for this week

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

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

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

Week Number

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

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

- 2018/19 - South East
- 2018/19 - South West
- 2018/19 - London

3 January 2019
Influenza confirmed ICU admissions (USISS mandatory) by age and influenza subtype, since week 40 2018

Age group (years):
- <1
- 1-4
- 5-14
- 15-44
- 45-64
- 65-74
- 75+

Influenza subtypes:
- A(H1N1)pdm09
- A(H3N2)
- A unknown subtype
- A not subtyped
- B
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
Influenza confirmed hospital admissions (USISS sentinel) by age and influenza subtype, since week 40 2018

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

Number

Age group (years)
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

Deaths (corrected)

Baseline

Upper 2 z-score limit

Upper 6 z-score limit

2014/15
A(H3N2)

2015/16
A(H1N1)pdm09

2016/17
A(H3N2)

2017/18
B and A(H3N2)

3 January 2019
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)
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE London

Year week

Deaths (corrected)

Baseline

Upper 2 z-score limit

Upper 6 z-score limit

2014/15
A(H3N2)

2015/16
A(H1N1)pdm09

2016/17
A(H3N2)

2017/18
B and A(H3N2)

Number of deaths


3 January 2019
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE South of England

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

**Year week**
- 2014-40
- 2015-40
- 2016-39
- 2017-39
- 2018-39

**Seasons**
- 2014/15 A(H3N2)
- 2015/16 A(H1N1)pdm09
- 2016/17 A(H3N2)
- 2017/18 B and A(H3N2)
Microbiological surveillance
DataMart: Number and proportion of samples positive for influenza, by type, England

Week number (of sample) vs Proportion positive

- Influenza A (n)
- Influenza B (n)
- Total influenza (%)
- 2017/18 total influenza (%)

Number of positive specimens

3 January 2019
DataMart: Number and proportion of samples positive for influenza, by type, PHE North East of England

The diagram shows the number of positive samples (FluA and FluB) and the proportion positive (%) for influenza A and influenza B over the weeks of sample collection. The x-axis represents the week number of the sample, while the y-axis shows the proportion positive (%) for each type of influenza.
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

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

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 London

Week number (of sample)

Number of positive samples

Proportion positive (%)
DataMart: Number and proportion of samples positive for influenza, by type, PHE South East of England

Graph showing the number of positive samples and the proportion positive (%) for influenza A and B over different weeks.

Legend:
- FluA (n)
- FluB (n)
- Influenza A (%)
- Influenza B (%)

X-axis: Week number (of sample)
Y-axis: Proportion positive (%)

Number of positive samples (on a separate scale for comparison):
- 500
- 450
- 400
- 350
- 300
- 250
- 200
- 150
- 100
- 50
- 0
DataMart: Number and proportion of samples positive for influenza, by type, PHE South West of England

Week number (of sample)

Proportion positive (%)

Number of positive samples

- FluA (n)
- FluB (n)
- Influenza A (%)
- Influenza B(%)
DataMart: Proportion of samples positive for influenza, by age group

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

Proportion positive vs Week number
DataMart: Proportion of samples positive for other viruses

Proportion positive

Week number

- Rhinovirus
- Parainfluenza
- hMPV
- Adenovirus

3 January 2019
Influenza vaccination
Seasonal influenza vaccine uptake in targeted groups, 2018/19, England

Vaccine uptake (%)

- 65+yrs
- <65yrs at risk
- All pregnant women

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

Vaccine uptake (%)

Week number

2 years
3 years

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