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 of outbreaks by institution:
- Care home
- Hospital
- School
- Other

2017/18 - total no. of outbreaks

11 April 2019
### Number of acute respiratory outbreaks by PHE Centre

<table>
<thead>
<tr>
<th></th>
<th>Outbreaks reported in week 14</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>1</td>
<td>37</td>
</tr>
<tr>
<td>PHE North West</td>
<td>2</td>
<td>175</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>6</td>
<td>93</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>7</td>
<td>129</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>9</td>
<td>135</td>
</tr>
<tr>
<td>PHE East of England</td>
<td>0</td>
<td>182</td>
</tr>
<tr>
<td>PHE London</td>
<td>1</td>
<td>58</td>
</tr>
<tr>
<td>PHE South East</td>
<td>7</td>
<td>180</td>
</tr>
<tr>
<td>PHE South West</td>
<td>9</td>
<td>194</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>-------------------------------------</td>
<td>-----</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>


11 April 2019
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

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

- 2018/19 - North East
- 2018/19 - North West
- 2018/19 - Yorkshire and Humber

Week number
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

- 2018/19 - East Midlands
- 2018/19 - West Midlands
- 2018/19 - East of England

Week Number

0.0 0.4 0.8 1.2 1.6 2.0
40 42 44 46 48 50 52 2 4 6 8 10 12 14 16 18 20

11 April 2019
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

Week number
Influenza confirmed ICU admissions (USISS mandatory) by age and influenza subtype, since week 40 2018

![Bar chart showing the number of ICU admissions by age group and influenza subtype from week 40 2018 to 11 April 2019.](chart.png)
Weekly hospitalised influenza case 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 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
All-cause mortality
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in 65+ year olds, England

- 2014/15: A(H3N2)
- 2015/16: A(H1N1)pdm09
- 2016/17: A(H3N2)
- 2017/18: B & A(H3N2)
- 2018/19: A(H1N1)pdm09/A(H3N2)

Deaths (corrected)
- Baseline
- Upper 2 z-score limit
- Upper 6 z-score limit
- Upper 8 z-score limit
- Upper 10 z-score limit
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE North of England

2014/15 A(H3N2)
2015/16 A(H1N1)pdm09
2016/17 A(H3N2)
2017/18 B and A(H3N2)
2018/19 A(H1N1)pdm09/A(H3N2)
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)
- 2018/19: A(H1N1)pdm09/A(H3N2)

Deaths (corrected) vs Baseline and Upper limits.
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE London

- 2014/15 A(H3N2)
- 2015/16 A(H1N1)pdm09
- 2016/17 A(H3N2)
- 2017/18 B and A(H3N2)
- 2018/19 A(H1N1)pdm09/A(H3N2)
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE South of England

Government Logo

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

Number of deaths

Year week

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


2014/15 A(H3N2)
2015/16 A(H1N1)pdm09
2016/17 A(H3N2)
2017/18 B and A(H3N2)
2018/19 A(H1N1)pdm09/A(H3N2)
Microbiological surveillance
DataMart: Number and proportion of samples positive for influenza, by type, England

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

Week number (of sample)

Proportion positive

Number of positive specimens

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

Week number (of sample)

Proportion positive (%)

Number of positive samples

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

0  0  0  0
50  10  20  30  40  50
100  20  40  60  80  100
150  30  60  90  120  150
200  40  80  120  160  200
250  50  100  150  200  250
300  60  120  180  240  300
350  70  140  210  280  350
400  80  160  240  320  400
450  90  180  270  360  450
500  100  200  300  400  500

11 April 2019
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

Week number (of sample) | Number of positive samples
--- | ---
Proportion positive (%) | 0 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500
FluA (n) | 40 | 44 | 48 | 52 | 4 | 8 | 12 | 16 | 20
FluB (n) | Influenza A (%) | Influenza B(%)
DataMart: Number and proportion of samples positive for influenza, by type, PHE East Midlands of England

![Graph showing number of positive samples and proportion positive for influenza A and B by week number. The graph includes bar charts and line graphs, with week numbers ranging from 40 to 20 on the x-axis and proportion positive (%) on the y-axis. The graph shows fluctuations in the number of positive samples and proportion positive throughout the weeks.]
DataMart: Number and proportion of samples positive for influenza, by type, PHE West Midlands of England
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

![Graph showing the number and proportion of samples positive for influenza, by type, PHE London. The graph includes bars for each week showing the number of positive samples and a line graph showing the proportion positive for influenza A and influenza B.](image-url)
DataMart: Number and proportion of samples positive for influenza, by type, PHE South 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 South West of England

![Graph showing number and proportion of samples positive for influenza, by type, in the PHE South West of England from 40 to 20 weeks of sample. The graph displays bars for FluA (n) and FluB (n) and lines for Influenza A (%) and Influenza B(%).]
DataMart: Proportion of samples positive for influenza, by age group

Proportion positive

Week number

65+yrs 45-64yrs 15-44yrs 5-14yrs <5yrs
DataMart: Proportion of samples positive for other viruses

- Rhinovirus
- Parainfluenza
- hMPV
- Adenovirus

Proportion positive vs Week number
Influenza vaccination
Seasonal influenza vaccine uptake in targeted groups, 2018/19, England

- 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

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

Week number

Vaccine uptake (%)

2 years
3 years
Links

• Sources of UK flu surveillance data:

• Weekly flu report