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
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
<table>
<thead>
<tr>
<th>PHE Centre</th>
<th>Outbreaks reported in week 05</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>2</td>
<td>23</td>
</tr>
<tr>
<td>PHE North West</td>
<td>11</td>
<td>117</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>7</td>
<td>52</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>6</td>
<td>78</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>10</td>
<td>82</td>
</tr>
<tr>
<td>PHE East of England</td>
<td>11</td>
<td>124</td>
</tr>
<tr>
<td>PHE London</td>
<td>5</td>
<td>35</td>
</tr>
<tr>
<td>PHE South East</td>
<td>11</td>
<td>103</td>
</tr>
<tr>
<td>PHE South West</td>
<td>9</td>
<td>101</td>
</tr>
</tbody>
</table>
Influenza-like illness GP consultation rates
RCGP ILI consultation rate, England

ILI rate per 100,000

Week number

<3.1 Baseline threshold 3.1 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>7.3</td>
</tr>
<tr>
<td>Northern Ireland</td>
<td>3.8</td>
</tr>
</tbody>
</table>

7 February 2019
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

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

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

A(H1N1)pdm09  A(H3N2)  A unknown subtype  A not subtyped  B

Number

Age group (years)

<1  1-4  5-14  15-44  45-64  65-74  75+

7 February 2019
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

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

Year week

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 Midlands and East of England.
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE London

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

**Years and Influenza Types:**
- **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 South of England
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 (%)

Graph showing the number of positive specimens and proportion positive by week number of sample.
DataMart: Number and proportion of samples positive for influenza, by type, PHE North East of England
DataMart: Number and proportion of samples positive for influenza, by type, PHE Yorkshire and Humber

Week number (of sample) vs. Proportion positive (%) and Number of positive samples for FluA (n) and FluB (n).
DataMart: Number and proportion of samples positive for influenza, by type, PHE East Midlands of England

![Graph showing the number of positive samples and proportion positive by week number for influenza A and influenza B.]
DataMart: Number and proportion of samples positive for influenza, by type, PHE West Midlands of England

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

Number of positive samples

Week number of sample

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

Week number (of sample)

- FluA (n)
- FluB (n)

Proportion positive (%)

- Influenza A (%)
- Influenza B(%)
DataMart: Number and proportion of samples positive for influenza, by type, PHE London
DataMart: Number and proportion of samples positive for influenza, by type, PHE South East of England
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 over time.](image-url)
DataMart: Proportion of samples positive for influenza, by age group

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

Week number

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

- 65+ yrs
- <65 yrs 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
Links

• Sources of UK flu surveillance data:

• Weekly flu report