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

29 November 2018
Community influenza surveillance
Number of acute respiratory outbreaks by PHE Centre

<table>
<thead>
<tr>
<th>Centre</th>
<th>Outbreaks reported in week 47</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>PHE North West</td>
<td>3</td>
<td>31</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>PHE East of England</td>
<td>5</td>
<td>38</td>
</tr>
<tr>
<td>PHE London</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>PHE South East</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>PHE South West</td>
<td>2</td>
<td>20</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 <15.6 High 15.6+ Very high

29 November 2018
GP ILI consultations in the UK for all ages with MEM thresholds applied

*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 2009/10), in a standardised approach across Europe. For MEM threshold values for each country, please visit: https://www.gov.uk/guidance/sources-of-uk-flu-data-influenza-surveillance-in-the-uk#clinical-surveillance-through-primary-care."

<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>

29 November 2018
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
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
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

Week 2018/19 - North
2018/19 - Midlands + East
2018/19 - London
2018/19 - South East
2018/19 - South West

Rate of hospitalisation/100,000

Week
Influenza confirmed hospital admissions (USISS sentinel) by age and influenza subtype, since week 40 2018

Number

Age group (years)

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

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

![Graph showing excess mortality trends from 2014/15 to 2017/18.](image)
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

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


29 November 2018
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 (%)

Proportion positive vs. Number of positive specimens

Week number (of sample)
DataMart: Number and proportion of samples positive for influenza, by type, PHE North East of England

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

Week number (of sample)

Proportion positive (%)

FluA (n)  FluB (n)

Influenza A (%)  Influenza B(%)
DataMart: Number and proportion of samples positive for influenza, by type, PHE Yorkshire and Humber

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

Week number (of sample)

Proportion positive (%)

Number of positive samples

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

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

Week number (of sample) vs. Proportion positive (%) and Number of positive samples.
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

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 East of England

- FluA (n)
- FluB (n)
- Influenza A (%)
- 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, PHE South West of England.](image-url)

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

Week number (of sample) vs. Proportion positive (%) and Number of positive samples.
DataMart: Proportion of samples positive for influenza, by age group

Proportion positive

Week number

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

29 November 2018
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

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

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

Week number
0 10 20 30 40
Vaccine uptake (%)
0 10 20 30 40 50 60 70 80
40 42 44 46 48 50 52 2 4
Seasonal influenza vaccine uptake in targeted groups, 2018/19, England

Vaccine uptake (%) vs 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