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
respсидс@phe.gov.uk
Community influenza surveillance
### Number of acute respiratory outbreaks by PHE Centre

<table>
<thead>
<tr>
<th></th>
<th>Outbreaks reported in week 48</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>4</td>
<td>35</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>4</td>
<td>10</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>2</td>
<td>18</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>PHE East of England</td>
<td>3</td>
<td>41</td>
</tr>
<tr>
<td>PHE London</td>
<td>4</td>
<td>9</td>
</tr>
<tr>
<td>PHE South East</td>
<td>1</td>
<td>13</td>
</tr>
<tr>
<td>PHE South West</td>
<td>7</td>
<td>27</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

6 December 2018
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

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

6 December 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

![Graph showing influenza admissions by age and subtype]
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

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

Number of cases for each age group:
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

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

![Graph showing excess mortality by week of death through the EuroMOMO algorithm in all ages, PHE Midlands and East of England.](image)

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

The graph plots the number of deaths over the years 2014-2018, with weeks 2014-40 to 2018-39, showing the baseline, upper 2 z-score limit, upper 6 z-score limit, and upper 8 z-score limit.
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE London

![Graph showing excess mortality by week of death through the EuroMOMO algorithm in all ages, PHE London. The graph displays data for the years 2014/15 to 2017/18, highlighting specific influenza seasons and their impact on mortality rates.](chart)
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 Description
- **Y-axis:** Proportion positive
- **X-axis:** Week number (of sample)
- **Graph Legend:**
  - Influenza A (n) (red)
  - Influenza B (n) (blue)
  - Total influenza (%) (red with dashes)
  - 2017/18 total influenza (%) (blue with dashes)
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 North West of England

Week number (of sample):

Number of positive samples:

Proportion positive (%):

FluA (n)

Influenza A (%)

FluB (n)

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

6 December 2018

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

![Graph showing the number and proportion of samples positive for influenza, by type, PHE East Midlands of England.](image)

- Number of positive samples:
  - FluA (n): [Graph data]
  - FluB (n): [Graph data]

- Proportion positive (%):
  - Influenza A (%): [Graph data]
  - Influenza B(%): [Graph data]
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

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

![Graph showing the number and proportion of positive samples for influenza A and B over weeks.](image)
DataMart: Proportion of samples positive for influenza, by age group

Proportion positive

Week number

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

6 December 2018
DataMart: Proportion of samples positive for other viruses

Week number

Proportion positive

- 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
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