• 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

Respiratory Diseases Department
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

Week of report

Number
### Number of acute respiratory outbreaks by PHE Centre

<table>
<thead>
<tr>
<th>Centre</th>
<th>Outbreaks reported in week 40</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>PHE North West</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>PHE East of England</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>PHE London</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHE South East</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>PHE South West</td>
<td>2</td>
<td>2</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

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>5.9</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, since week 40 2018

Rate of ICU/HDU admission/100,000

Week Number

2018/19 - North East
2018/19 - Yorkshire and Humber
2018/19 - West Midlands
2018/19 - London
2018/19 - South West
2018/19 - North West
2018/19 - East Midlands
2018/19 - East of England
2018/19 - South East
Influenza confirmed ICU admissions (USISS mandatory) by age and influenza subtype, since week 40 2018

Age group (years)  | Number
---  | ---
<1  | 0
1-4  | 0
5-14  | 0
15-44  | 0
45-64  | 0
65-74  | 0
75+  | 0

- 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

*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

![Graph showing influenza confirmed hospital admissions by age and subtype]

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

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

**Number**
- 0
- 20
- 40
- 60
- 80
- 100
- 120
- 140
- 160
- 180
- 200

11 October 2018
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
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE Midlands and East of England.

Number of deaths by year and week:
- 2014/15: A(H3N2)
- 2015/16: A(H1N1)pdm09
- 2016/17: A(H3N2)
- 2017/18: B and A(H3N2)

Key:
- Deaths (corrected)
- Baseline
- Upper 2 z-score limit
- Upper 6 z-score limit
- Upper 8 z-score limit
- Upper 10 z-score limit

Year week:
- 2014-40
- 2015-40
- 2016-39
- 2017-39
- 2018-39
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
- Upper 8 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 South of England

![Graph showing excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE South of England.](image)
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
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
DataMart: Number and proportion of samples positive for influenza, by type, PHE Yorkshire and Humber

Week number (of sample) vs. Proportion positive (%)

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

Influenza B(%)

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

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

Week number (of sample)

Proportion positive (%)

Number of positive samples

11 October 2018
DataMart: Number and proportion of samples positive for influenza, by type, PHE South West of England
DataMart: Proportion of samples positive for influenza, by age group

Week number

Proportion positive

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
- <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

Vaccine uptake (%) vs. Week number

- 2 years
- 3 years

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

11 October 2018
Links

• Sources of UK flu surveillance data:

• Weekly flu report