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
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16 October 2018
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
### 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
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
Influenza confirmed ICU admissions (USISS mandatory) by age and influenza subtype, since week 40 2018

Number

Age group (years)

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

Rate of hospitalisation/100,000

Week

2018/19 - North
2018/19 - Midlands + East
2018/19 - London
2018/19 - South East
2018/19 - South West
Influenza confirmed hospital admissions (USISS sentinel) by age and influenza subtype, since week 40 2018

Number

Age group (years)

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

0  20  40  60  80  100  120  140  160  180  200

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

16 October 2018

Return to main menu
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)

**Number of deaths**

**Year week**

- 2014-40
- 2015-40
- 2016-39
- 2017-39
- 2018-39

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

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

Year week

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

Number of deaths

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 London

Number of deaths

- Deaths (corrected)
- 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)

Return to main menu
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 (%)

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

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 East Midlands of England

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

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

16 October 2018
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 (%)

FluB (n)  Influenza B(%)
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
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.](image)

- **FluA (n)**
- **FluB (n)**
- **Influenza A (%)**
- **Influenza B (%)**
DataMart: Proportion of samples positive for influenza, by age group
DataMart: Proportion of samples positive for other viruses

- Rhinovirus
- Parainfluenza
- hMPV
- Adenovirus
Influenza vaccination
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

Vaccine uptake (%) vs. Week number

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

16 October 2018
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