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.

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

<table>
<thead>
<tr>
<th></th>
<th>Outbreaks reported in week 41</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>PHE North West</td>
<td>3</td>
<td>11</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>2</td>
<td>4</td>
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<tr>
<td>PHE East of England</td>
<td>7</td>
<td>11</td>
</tr>
<tr>
<td>PHE London</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>PHE South East</td>
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<td>2</td>
</tr>
<tr>
<td>PHE South West</td>
<td>3</td>
<td>5</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

18 October 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>
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<tr>
<td>Wales</td>
<td>7.1</td>
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<tr>
<td>Scotland</td>
<td>7.1</td>
</tr>
<tr>
<td>Northern Ireland</td>
<td>3.8</td>
</tr>
</tbody>
</table>

18 October 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
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.
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

18 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

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

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

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

**Number of deaths**

- **Deaths (corrected)**
- **Upper 2 z-score limit**
- **Upper 6 z-score limit**
- **Upper 8 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 South 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
Upper 8 z-score limit
Upper 10 z-score limit
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) vs. Number of positive specimens

Proportion positive vs. Number of positive specimens
DataMart: Number and proportion of samples positive for influenza, by type, PHE North East of England

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

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

![Graph showing the number of positive samples and proportion positive for influenza A and B over time.]

Week number (of sample)

Proportion positive (%)

Number of positive samples

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

0 50 100 150 200 250 300 350 400 450

0 10 20 30 40 50

40 44 48 52 4 8 12 16 20

18 October 2018
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
DataMart: Proportion of samples positive for influenza, by age group

- 65+yrs
- 45-64yrs
- 15-44yrs
- 5-14yrs
- <5yrs
DataMart: Proportion of samples positive for other viruses

- Rhinovirus
- Parainfluenza
- hMPV
- Adenovirus

Week number vs. Proportion positive
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
Seasonal influenza vaccine uptake in targeted groups, 2018/19, England

Vaccine uptake (%)

Week number

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