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
respсидс@phe.gov.uk
Community influenza surveillance
Number of acute respiratory outbreaks by institution, UK

- Care home
- Hospital
- School
- Other

2016/17 - total no. of outbreaks

Week of report

Number

8 February 2018
### Number of acute respiratory outbreaks by PHE Region

<table>
<thead>
<tr>
<th>Region</th>
<th>Outbreaks reported in week 05</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North of England</td>
<td>25</td>
<td>336</td>
</tr>
<tr>
<td>PHE Midlands and East of England</td>
<td>23</td>
<td>371</td>
</tr>
<tr>
<td>PHE London</td>
<td>8</td>
<td>50</td>
</tr>
<tr>
<td>PHE South of England</td>
<td>34</td>
<td>423</td>
</tr>
</tbody>
</table>
Influenza-like illness GP consultation rates
RCGP ILI consultation rate, England

ILI rate per 100,000

Week number

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

<13.1 Baseline threshold

13.1 to <24.2 Low

24.2 to <68.7 Medium

68.7 to <108.9 High

108.9+ Very high

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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>6.8</td>
</tr>
<tr>
<td>Wales</td>
<td>5.7</td>
</tr>
<tr>
<td>Scotland</td>
<td>10.0</td>
</tr>
<tr>
<td>Northern Ireland</td>
<td>3.4</td>
</tr>
</tbody>
</table>

8 February 2018
Influenza-confirmed hospitalisations
Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population, England, since week 40 2017

*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 region, since week 40 2017
Influenza confirmed ICU admissions (USISS mandatory) by age and influenza subtype, since week 40 2017

![Bar chart showing influenza confirmed ICU admissions by age group and influenza subtype, with a peak in the 65+ age group.](chart.png)
Weekly hospitalised influenza case rate per 100,000 trust catchment population, England, since week 40 2017

*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 2017
Influenza confirmed hospital admissions (USISS sentinel) by age and influenza subtype, since week 40 2017

![Influenza confirmed hospital admissions chart](chart.png)
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 over years with specific years and viruses labeled.]

- **2013/14**: A(H1N1)pdm09
- **2014/15**: A(H3N2)
- **2015/16**: A(H1N1)pdm09
- **2016/17**: A(H3N2)

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

8 February 2018
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 trends over years and weeks]

- **2013/14**: A(H1N1)pdm09
- **2014/15**: A(H3N2)
- **2015/16**: A(H1N1)pdm09
- **2016/17**: 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**

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Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE London

- 2013/14 A(H1N1)pdm09
- 2014/15 A(H3N2)
- 2015/16 A(H1N1)pdm09
- 2016/17 A(H3N2)

Number of deaths vs. Year week
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 (%)
- 2016/17 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 of England

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

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

- **Number of positive samples**
- **Proportion positive (%)**
- **Week number (of sample)**

**Influenza A(n)**

**Influenza B(n)**

**Influenza A (%)**

**Influenza B(%)**
DataMart: Number and proportion of samples positive for influenza, by type, PHE South of England
DataMart: Proportion of samples positive for influenza, by age group

![Graph showing proportion positive by age group over weeks]

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

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DataMart: Proportion of samples positive for other viruses

Week number vs Proportion positive for:
- Rhinovirus
- Parainfluenza
- hMPV
- Adenovirus
Influenza vaccination
Seasonal influenza vaccine uptake in targeted groups, 2017/18, England

Vaccine uptake (%)

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

2017/18 season indicated by bold lines, 2016/17 season indicated by fainter dashed lines
Seasonal influenza vaccine uptake in targeted groups, 2017/18, England

2017/18 season indicated by bold lines, 2016/17 season indicated by fainter dashed lines.
Links

• Sources of UK flu surveillance data:

• Weekly flu report