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
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28 December 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 51</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>PHE North West</td>
<td>9</td>
<td>51</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>5</td>
<td>17</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>3</td>
<td>27</td>
</tr>
<tr>
<td>PHE West Midlands</td>
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<td>25</td>
</tr>
<tr>
<td>PHE East of England</td>
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<td>55</td>
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<tr>
<td>PHE London</td>
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<td>12</td>
</tr>
<tr>
<td>PHE South East</td>
<td>3</td>
<td>20</td>
</tr>
<tr>
<td>PHE South West</td>
<td>7</td>
<td>43</td>
</tr>
</tbody>
</table>
Influenza-like illness GP consultation rates
RCGP ILI consultation rate, England

ILI rate per 100,000

Week number

<3.1 Baseline threshold
3.1 to 24.7 Low
24.7 to 72.1 Medium
72.1 to 115.6 High
115.6+ Very high
**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>7.0</td>
</tr>
<tr>
<td>Scotland</td>
<td>7.1</td>
</tr>
<tr>
<td>Northern Ireland</td>
<td>3.8</td>
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</tbody>
</table>

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

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

Rate of ICU/HDU admission per 100,000 trust catchment population

Week number

2018/19 - North East
2018/19 - North West
2018/19 - Yorkshire and Humber

28 December 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

*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

- 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

[Bar chart showing number of hospital admissions by age group and influenza subtype (A(H1N1)pdm09, A(H3N2), A unknown subtype, B).]
All-cause mortality
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in 65+ year olds, England

28 December 2018

Return to main menu
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE North of England

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

- **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 Midlands and East of England.
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

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

- 2014/15: A(H3N2)
- 2015/16: A(H1N1)pdm09
- 2016/17: A(H3N2)
- 2017/18: B and A(H3N2)
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 (%)
DataMart: Number and proportion of samples positive for influenza, by type, PHE North East of England

![Graph showing number and proportion of samples positive for influenza, by type, for PHE North East of England. The graph displays data for FluA (n), FluB (n), Influenza A (%), and Influenza B (%).]
DataMart: Number and proportion of samples positive for influenza, by type, PHE North West of England

Week number (of sample) vs. Proportion positive (%) and Number of positive samples

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

28 December 2018
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

28 December 2018

Proportion positive (%)

Number of positive samples

Week number (of sample)

FluA (n)

FluB (n)

Influenza A (%)

Influenza B (%)

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(%)**

Week number (of sample)

Proportion positive (%)

Number of positive samples

28 December 2018
DataMart: Number and proportion of samples positive for influenza, by type, PHE East of England

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

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

![Graph showing the number and proportion of samples positive for influenza by type over time.](chart)

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

Legend:
- Pink line: FluA (n)
- Red line: Influenza A (%)
- Blue line: FluB (n)
- Blue line: Influenza B (%)

28 December 2018
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

Week number (of sample)

Proportion positive (%)

Number of positive samples

FluA (n)
Influenza A (%)

FluB (n)
Influenza B(%)

28 December 2018
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
Influenza vaccination
Seasonal influenza vaccine uptake in targeted groups, 2018/19, England

Vaccine uptake (%)

Week number

- 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

- 2 years
- 3 years

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