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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22 November 2018
Community influenza surveillance
# Number of acute respiratory outbreaks by PHE Centre

<table>
<thead>
<tr>
<th>PHE Centre</th>
<th>Outbreaks reported in week 46</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>PHE North West</td>
<td>4</td>
<td>28</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>2</td>
<td>14</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>PHE East of England</td>
<td>7</td>
<td>33</td>
</tr>
<tr>
<td>PHE London</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>PHE South East</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>PHE South West</td>
<td>5</td>
<td>18</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

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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>7.0</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, 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

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

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
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

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

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

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

Graph showing the number of deaths over different years and weeks with various z-score limits.
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE London

Number of deaths

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

Year week

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

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

Week number (of sample) vs. Number of positive samples

Proportion positive (%) vs. Proportion of positive samples

FluA (n) vs. FluB (n)

Influenza A (%) vs. 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 (%)

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

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

![Chart showing number and proportion of samples positive for influenza, by type.]
DataMart: Number and proportion of samples positive for influenza, by type, PHE East Midlands of England

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

Week number (of sample) vs Proportion positive (%) and Number of positive samples.
DataMart: Number and proportion of samples positive for influenza, by type, PHE West Midlands of England
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

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

Week number (of sample)

Proportion positive (%)

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

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 South West of England
DataMart: Proportion of samples positive for influenza, by age group

Proportion positive

Week number

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

Week number

Proportion positive

- Rhinovirus
- Parainfluenza
- hMPV
- Adenovirus

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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

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