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
respscidsc@phe.gov.uk

17 January 2019
Community influenza surveillance
Number of acute respiratory outbreaks by institution, UK

Week of report

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 02</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>PHE North West</td>
<td>17</td>
<td>88</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>9</td>
<td>33</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>10</td>
<td>50</td>
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<tr>
<td>PHE West Midlands</td>
<td>11</td>
<td>53</td>
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<tr>
<td>PHE East of England</td>
<td>14</td>
<td>94</td>
</tr>
<tr>
<td>PHE London</td>
<td>3</td>
<td>20</td>
</tr>
<tr>
<td>PHE South East</td>
<td>10</td>
<td>55</td>
</tr>
<tr>
<td>PHE South West</td>
<td>10</td>
<td>65</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

17 January 2019
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>7.3</td>
</tr>
<tr>
<td>Northern Ireland</td>
<td>3.8</td>
</tr>
</tbody>
</table>

*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.*
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

Graph showing the weekly ICU/HDU influenza admission rate per 100,000 trust catchment population for the years 2018/19 in the North East, North West, and Yorkshire and Humber regions. The graph plots the rate against the week number from week 40 to week 20 of the year 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

- 2018/19 - East Midlands
- 2018/19 - West Midlands
- 2018/19 - East of England
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

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

Week number

2018/19 - South East
2018/19 - South West
2018/19 - London
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
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)

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

17 January 2019
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
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE South of England

Graph showing the number of deaths (corrected) for different years and strains of flu, with upper limits for 2, 6, and 8 z-scores.
Microbiological surveillance
DataMart: Number and proportion of samples positive for influenza, by type, PHE North East of England
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
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
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

<table>
<thead>
<tr>
<th>Week</th>
<th>FluA (n)</th>
<th>FluB (n)</th>
<th>Influenza A (%)</th>
<th>Influenza B(%)</th>
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<tbody>
<tr>
<td>40</td>
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<td>20</td>
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</tr>
</tbody>
</table>

40  44  48  52  4  8  12  16  20
0  5  10  15  20  25  30  35  40
0  50  100  150  200  250  300  350  400

17 January 2019

Return to main menu
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(%)

FluA (n)

Influenza A (%)

FluB (n)

Influenza B(%)

500
450
400
350
300
250
200
150
100
50
0
50
45
40
35
30
25
20
15
10
5
0
40 44 48 52 0 4 8 12 16 20

17 January 2019

Return to main menu
DataMart: Proportion of samples positive for influenza, by age group

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

Proportion positive vs. Week number
DataMart: Proportion of samples positive for other viruses

- Rhinovirus
- Parainfluenza
- hMPV
- Adenovirus

Proportion positive

Week number

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.
Seasonal influenza vaccine uptake in targeted groups, 2018/19, England

Vaccine uptake (%) vs 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