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

12 December 2019
Community influenza surveillance
Number of acute respiratory outbreaks by institution, UK

- Care home
- Hospital
- School
- Other
- 2018/19 - total no. of outbreaks

Week of report

Number of outbreaks by week and institution.
### Number of acute respiratory outbreaks by PHE Centre

<table>
<thead>
<tr>
<th>PHE Centre</th>
<th>Outbreaks reported in week 49</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>9</td>
<td>164</td>
</tr>
<tr>
<td>PHE North West</td>
<td>32</td>
<td>148</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>9</td>
<td>72</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>15</td>
<td>72</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>14</td>
<td>62</td>
</tr>
<tr>
<td>PHE East of England</td>
<td>8</td>
<td>75</td>
</tr>
<tr>
<td>PHE London</td>
<td>2</td>
<td>15</td>
</tr>
<tr>
<td>PHE South East</td>
<td>27</td>
<td>65</td>
</tr>
<tr>
<td>PHE South West</td>
<td>26</td>
<td>124</td>
</tr>
</tbody>
</table>
Influenza-like illness GP consultation rates
RCGP ILI consultation rate, England

ILI rate per 100,000

Week number

2010-11
2018-19
2019-20

<12.7 Baseline threshold 12.7 to <24.1 Low 24.1 to <70.6 Medium
70.6 to <113.6 High 113.6+ Very high
GP ILI consultations in the UK for all ages with MEM thresholds applied

Influenza-confirmed hospitalisations
Weekly ICU/HDU influenza admission rate per 100,000 trust catchment population, England, since week 40 2019

*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 2019
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 2019

- 2019/20 - East Midlands
- 2019/20 - West Midlands
- 2019/20 - 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 2019

- **2019/20 - South East**
- **2019/20 - South West**
- **2019/20 - London**
Influenza confirmed ICU admissions (USISS mandatory) by age and influenza subtype, since week 40 2019

[Bar chart showing number of ICU admissions by age group and influenza subtype]
Weekly hospitalised influenza case rate per 100,000 trust catchment population, England, since week 40 2019

Weekly hospitalised influenza admission rate per 100,000 trust catchment population by PHE region, since week 40 2019
Influenza confirmed hospital admissions (USISS sentinel) by age and influenza subtype, since week 40 2019

Age group (years)

- <1
- 1-4
- 5-14
- 15-44
- 45-64
- 65+

Number

- 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 all ages, England
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE North of England
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
Microbiological surveillance
DataMart: Number and proportion of samples positive for influenza, by type, England

- Influenza A (n)
- Influenza B (n)
- Total influenza (%)
- 2018/19 total influenza (%)

Week number (of sample)

Proportion positive vs. Number of positive specimens

12 December 2019
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, PHE North East of England.](image)

- **Week number (of sample)**
- **Number of positive samples**
- **Proportion positive (%)**
- **FluB (n)**
- **FluA (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
DataMart: Number and proportion of samples positive for influenza, by type, PHE East Midlands of England

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

Week number (of sample)

Proportion positive (%)

Number of positive samples

0 50 100 150 200 250 300 350 400 450 500

0 5 10 15 20 25 30 35 40 45 50

39 43 47 51 3 7 11 15 19

FluA (n)  
FluB (n)

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

Week number (of sample)

Proportion positive (%)

Number of positive samples

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

FluB (n)  FluA (n)

Influenza A (%)  Influenza B(%)
DataMart: Proportion of samples positive for RSV, by age group

Week number

Proportion positive
DataMart: Proportion of samples positive for other viruses

<table>
<thead>
<tr>
<th>Week number</th>
<th>Proportion positive</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-43</td>
<td>RSV</td>
</tr>
<tr>
<td>44-46</td>
<td>Rhinovirus</td>
</tr>
<tr>
<td>47-49</td>
<td>Parainfluenza</td>
</tr>
<tr>
<td>50-52</td>
<td>hMPV</td>
</tr>
<tr>
<td>53</td>
<td>Adenovirus</td>
</tr>
</tbody>
</table>
Influenza vaccination
Seasonal influenza vaccine uptake in targeted groups, 2019/20, England

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

2019/20 season indicated by bold lines, 2018/19 season indicated by fainter dashed lines
Links

• Sources of UK flu surveillance data:

• Weekly flu report