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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2 May 2019
Community influenza surveillance
# Number of acute respiratory outbreaks by PHE Centre

<table>
<thead>
<tr>
<th>Centre</th>
<th>Outbreaks reported in week 17</th>
<th>Cumulative number of outbreaks since week 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHE North East</td>
<td>0</td>
<td>39</td>
</tr>
<tr>
<td>PHE North West</td>
<td>3</td>
<td>183</td>
</tr>
<tr>
<td>PHE Yorkshire and Humber</td>
<td>2</td>
<td>96</td>
</tr>
<tr>
<td>PHE East Midlands</td>
<td>6</td>
<td>151</td>
</tr>
<tr>
<td>PHE West Midlands</td>
<td>5</td>
<td>150</td>
</tr>
<tr>
<td>PHE East of England</td>
<td>0</td>
<td>182</td>
</tr>
<tr>
<td>PHE London</td>
<td>0</td>
<td>58</td>
</tr>
<tr>
<td>PHE South East</td>
<td>5</td>
<td>194</td>
</tr>
<tr>
<td>PHE South West</td>
<td>3</td>
<td>205</td>
</tr>
</tbody>
</table>
Influenza-like illness GP consultation rates
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>

*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

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

Age groups:
- <1
- 1-4
- 5-14
- 15-44
- 45-64
- 65-74
- 75+

Number of admissions by age group and influenza subtype.
Weekly hospitalised influenza case rate per 100,000 trust catchment population, England, since week 40 2018

Number of cases

Rate of hospital admission/100,000 (2018/19)

Rate of hospital admission/100,000 (2017/18)

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

![Graph showing influenza confirmed hospital admissions by age group and influenza subtype.](image)

- **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

![Graph showing excess mortality by week of death through the EuroMOMO algorithm in 65+ year olds, England.](image-url)

**Year week**
- 2014-40
- 2015-40
- 2016-39
- 2017-39
- 2018-39

**Deaths (corrected)**
- 2014/15 A(H3N2)
- 2015/16 A(H1N1)pdm09
- 2016/17 A(H3N2)
- 2017/18 B & A(H3N2)
- 2018/19 A(H1N1)pdm09/A(H3N2)

**Baseline**
- Upper 2 z-score limit
- Upper 6 z-score limit
- Upper 8 z-score limit
- Upper 10 z-score limit

2 May 2019
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)
2018/19 A(H1N1)pdm09/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

2014/15 A(H3N2)
2015/16 A(H1N1)pdm09
2016/17 A(H3N2)
2017/18 B and A(H3N2)
2018/19 A(H1N1)pdm09/A(H3N2)
Excess mortality (all causes) by week of death through the EuroMOMO algorithm in all ages, PHE South of England

![Graph showing excess mortality by week of death through the EuroMOMO algorithm in all ages, PHE South of England.](image-url)
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 influenza A and influenza B samples over time.](image_url)
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

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

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

Graph showing the number of positive samples and proportion positive (%) over week numbers of sample.
DataMart: Number and proportion of samples positive for influenza, by type, PHE West Midlands of England

![Graph showing number and proportion of samples positive for influenza, by type.]
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)
- FluB (n)
- Influenza A (%)
- Influenza B(%)

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

2 May 2019
DataMart: Number and proportion of samples positive for influenza, by type, PHE South West of England

![Graph showing number and proportion of samples positive for influenza, by type, PHE South West of England.](image)
DataMart: Proportion of samples positive for influenza, by age group

Week number

Proportion positive

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

Proportion positive

Week number

Rhinovirus
Parainfluenza
hMPV
Adenovirus
Influenza vaccination
Seasonal influenza vaccine uptake in targeted groups, 2018/19, England

- 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

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