

# **Remote Health Advice**

Syndromic Surveillance System: England

#### 04 February 2020

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Difficulty Breathing.

Year: 2020

Week: 5

# Key messages

Data to: 02 February 2020

During week 5 there were further increases in NHS 111 cold/flu calls, particularly noted on Friday 31 January (figure 2). Please note: these data should be interpreted with some caution due to the current national media coverage of the 2019-nCoV incident and the potential subsequent impact on the number of NHS 111 callers.

A Cold Watch System operates in England from 1 November to 31 March each year. As part of the Public Health England Cold Weather Plan for England the PHE Real-time Syndromic Surveillance Team will be monitoring the impact of cold weather on syndromic surveillance data during this period. Cold weather alert level (current reporting week): Level 1 Winter preparedness http://www.metoffice.gov.uk/weather/uk/coldweatheralert/

# Syndromic indicators at a glance:

Indicator	Trend	Level
Cold/flu	increasing	medium intensity*
Fever	increasing	below baseline levels
Cough	increasing	similar to baseline levels
Difficulty breathing	no trend	below baseline levels
Sore throat	increasing	above baseline levels
Diarrhoea	increasing	below baseline levels
Vomiting	no trend	below baseline levels
Eye problems	no trend	similar to baseline levels

\* Moving Epidemic Method (MEM) influenza activity threshold (see notes)

# Data summary:

Year	Week	Total calls
2020	5	289,265

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#### 1: Total calls.

The total number of syndromic calls recorded each day by NHS 111.



Daily 'cold/flu' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

#### 2a: Daily cold/flu calls (winter 2019/20) with MEM influenza activity thresholds (see notes)

Daily 'cold/flu' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

Medium threshold, 1.19

Baseline threshold, 0.81

29/10/2019

29/12/2019

29/01/2020

Week number

cold/flu

29/11/2019

weekend

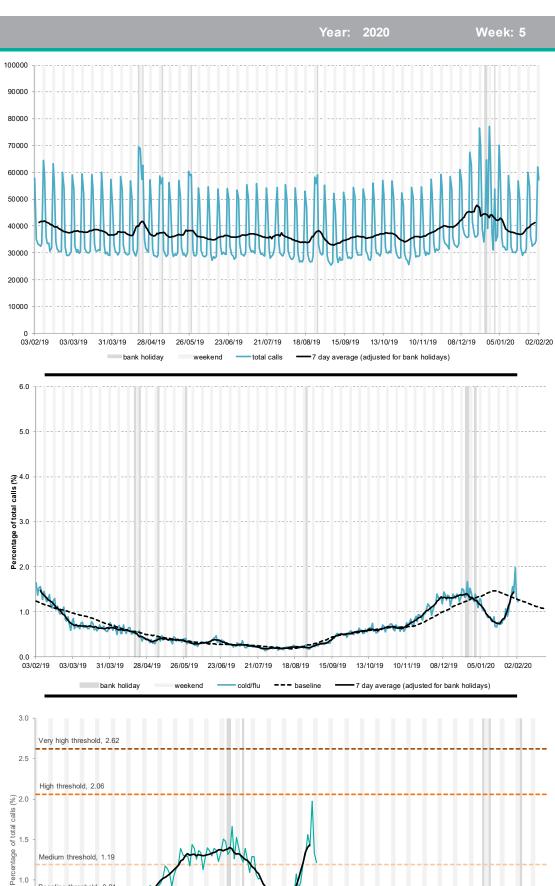
bankholiday

1.0

0.5

0.0 29/09/2019





30/04/2020

31/03/2020

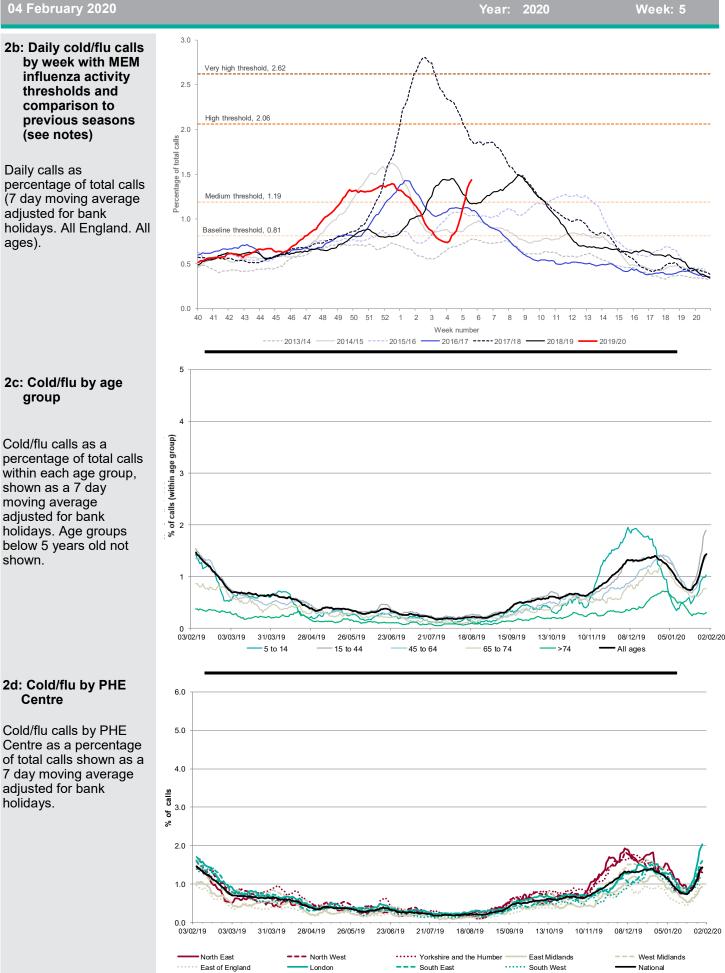
29/02/2020

-7 day average (adjusted for bank holidays)

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#### 3: Fever

Daily 'fever' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

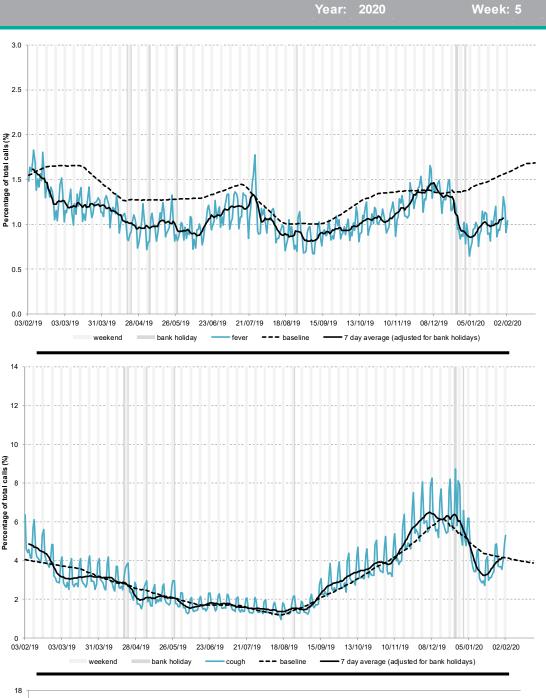
#### 4: Cough

Daily 'cough' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

# 4a: Cough calls by age group

Cough calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.

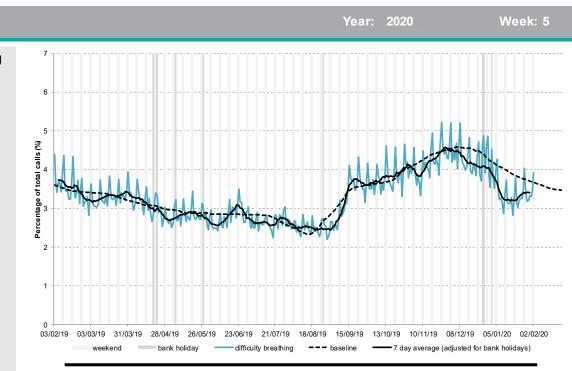






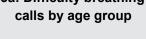
#### 5: Difficulty breathing

Daily 'difficulty breathing' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.



#### 5a: Difficulty breathing calls by age group

Difficulty breathing calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.





Daily 'sore throat' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

5.0

4.5

4.0

3.5

Percentage of total calls (%) 0.7 0.8 0.8 0.8

1.5

1.0

0.5

0.0

03/02/19 03/03/19

31/03/19

weekend

28/04/19

26/05/19

bank holiday

23/06/19

21/07/19

sore throat

18/08/19 15/09/19 13/10/19

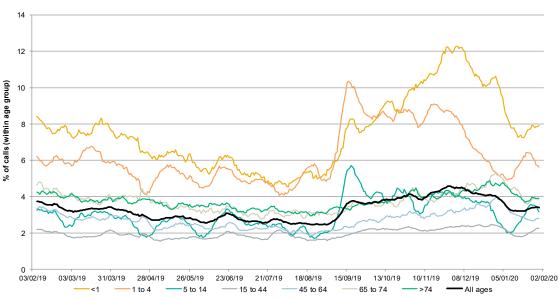
--- baseline

10/11/19 08/12/19

7 day average (adjusted for bank holidays)

05/01/20

02/02/20



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#### 6a: Sore throat calls by age group

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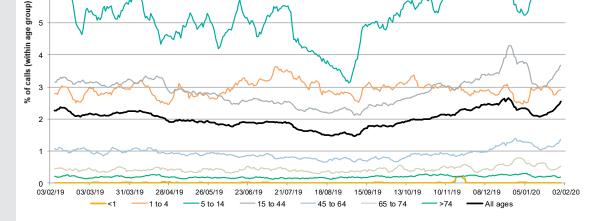
7

6

5

Sore throat calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.

# Week: 5

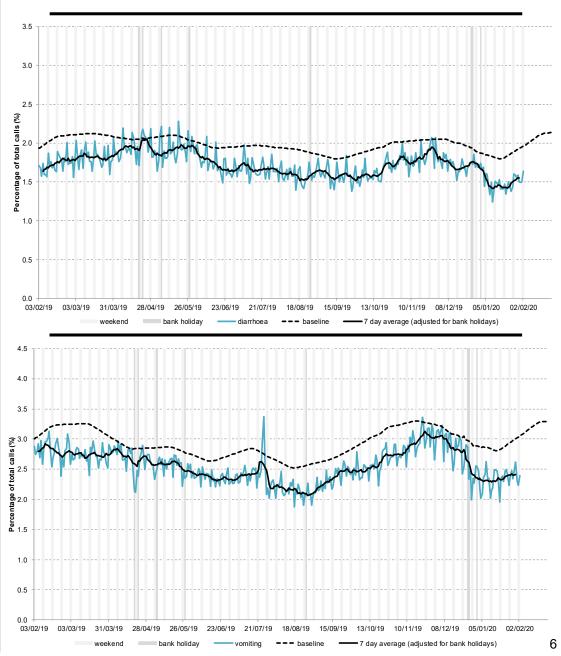


#### 7. Diarrhoea

Daily 'diarrhoea' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

#### 8: Vomiting calls

Daily 'vomiting' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.



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#### 9: Eye problems

Daily 'eye problems' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

#### 9a: Eye problems calls by age group

3.5

3.0

% of calls (within age group) G

1.0

0.5

0.0

03/03/19

31/03/19

<1

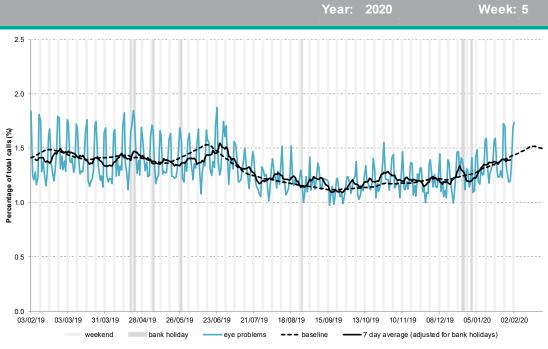
28/04/19

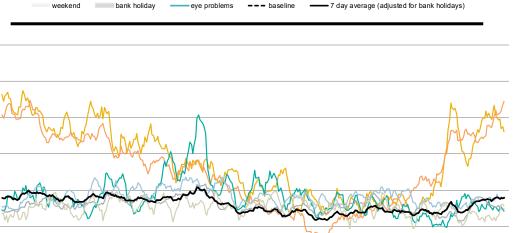
1 to 4

26/05/19

- 5 to 14

'Eye problems calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.





21/07/19

- 15 to 44

23/06/19

18/08/19

45 to 64

13/10/19

65 to 74

15/09/19

10/11/19

->74

08/12/19 05/01/20

All ages

02/02/20

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04 February 2020	Year: 2020 Week: 5
Introduction to charts:	<ul> <li>Weekends and bank holidays are marked by vertical grey lines (bank holidays darker grey).</li> <li>A 7-day moving average (adjusted for bank holidays) is overlaid on the daily data reported in each chart, unless specified.</li> <li>Baselines represent seasonally expected levels of activity and are constructed from historical data since September 2013. They take into account any known substantial changes in data collection, population coverage or reporting practices. Baselines are refreshed using the latest data on a regular basis.</li> <li>NHS 111 call data are analysed on a daily basis to identify national and regional trends. A statistical algorithm underpins each system, routinely identifying activity that has increased significantly or is statistically significantly high for the time of year. Results from these daily analyses are assessed by the ReSST, along with analysis by age group, and anything deemed of public health importance is alerted by the team.</li> </ul>
Moving Epidemic Method (MEM):	<ul> <li>During each winter we present Moving Epidemic Method (MEM) influenza thresholds on selected indicators.</li> <li>The moving epidemic method or MEM is a standard methodology used for setting influenza thresholds across many European nations.<sup>1</sup></li> <li>MEM is used for NHS 111 cold/flu thresholds at a national level.</li> <li>MEM thresholds should be interpreted using 7 day moving averages rather than daily data.</li> <li>MEM thresholds currently use six years of historic data (2013-2019). The thresholds are re-calculated every year.</li> <li>Baseline ('pre-epidemic') thresholds are used alongside other surveillance systems to identify the start of influenza circulating in the community.</li> <li>40%, 95% and 97.5% intensity thresholds are used to identify when influenza activity moves from low to medium, high or very high.</li> <li><sup>1</sup>Vega T et al. Influenza Other Respir Viruses. 2013;7(4):546-58.</li> </ul>
Notes and further information:	<ul> <li>Further information about NHS 111 can be found at: <u>https://www.nhs.uk/using-the-nhs/nhs-services/urgent-and-emergency-care/nhs-111/</u></li> <li>The Remote Health Advice Syndromic Surveillance bulletin can also be downloaded from the PHE Real-time Syndromic Surveillance website which also contains more information about syndromic surveillance: <u>https://www.gov.uk/government/collections/syndromic-surveillance-systems-and-analyses</u></li> </ul>
Acknowledgements:	We are grateful to NHS 111 and to NHS Digital for their assistance and support in providing the anonymised call data that underpin the Remote Health Advice Syndromic Surveillance System.
Contact ReSST: syndromic.surveillance	Remote Health Advice Syndromic Surveillance System Bulletin. Produced by: PHE Real-time Syndromic Surveillance Team 1 <sup>st</sup> Floor, 5 St Philips Place, Birmingham, B3 2PW Tel: 0344 225 3560 > Option 4 > Option 2 Fax: 0121 236 2215

Web: https://www.gov.uk/government/collections/syndromic-surveillance-systems-and-analyses