

Diarrhoea. Vomiting.

Eye problems.

Introduction to charts. Moving Epidemic Method (MEM). Notes and further information. Acknowledgements.

# **Remote Health Advice**

Syndromic Surveillance System: England

#### 18 September 2019 Year: 2019 Week: 37 In This Issue: Key messages Data to: 15 September 2019 Key messages. Syndromic indicators at NHS 111 difficulty breathing calls increased during week 37 in line with a glance. seasonally expected trends. Calls increased specifically in the 1-4 and 5-14 years age groups (Figures 5 & 5a). Data summary. Indicators by syndrome. Total calls. Cold/flu. A Heat-Health Watch system operates in England from 1 June to 15 September each year. As part Fever. of the Heatwave Plan for England, the PHE Real-time Syndromic Surveillance team will be routinely monitoring the public health impact of hot weather using syndromic surveillance data Cough. during this period. Heat-health watch level (current reporting week): Level 1: Summer preparedness Difficulty Breathing. http://www.metoffice.gov.uk/weather/uk/heathealth/ Sore throat.

# Syndromic indicators at a glance:

| Trend      | Level  |
|------------|--|
| increasing | pre-epidemic threshold*  |
| increasing | below baseline levels  |
| increasing | similar to baseline levels   |
| increasing | below baseline levels  |
| increasing | above baselines levels   |
| decreasing | below baseline levels  |
| increasing | below baseline levels  |
| no trend   | above baselines levels   |
| no trend   | similar to baseline levels   |
| decreasing | similar to baseline levels   |
|            | increasing<br>increasing<br>increasing<br>increasing<br>decreasing<br>increasing<br>no trend<br>no trend |

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

# Data summary:

| Year | Week | Total calls |
|------|------|-------------|
| 2019 | 37   | 238,892     |

# **X** Public Health England

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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.

5.0

Percentage of total calls (%) 0.8 0.7 0.7 0.7 0.7

1.0

14/10/18

11/11/18

09/12/18

06/01/19

03/02/19

03/03/19

31/03/19 28/04/19

26/05/19

23/06/19

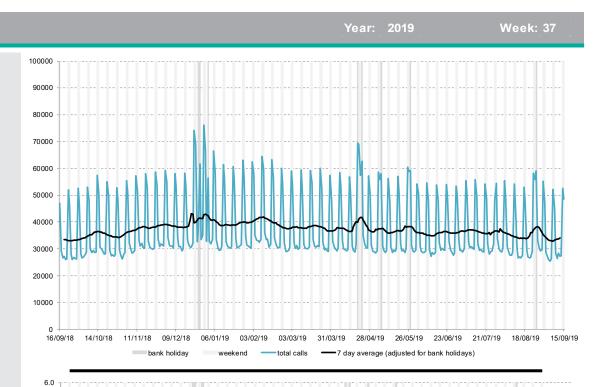
21/07/19

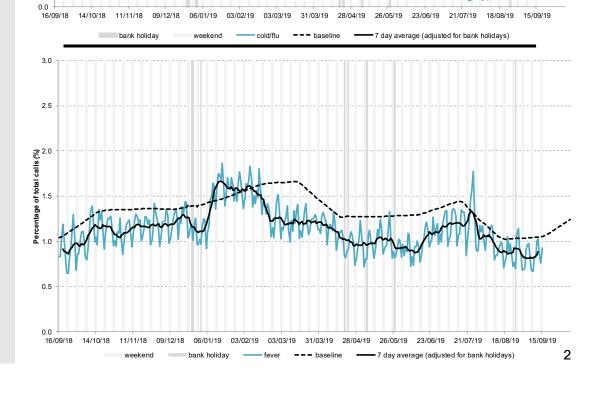
18/08/19

15/09/19



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





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#### 4: Cough

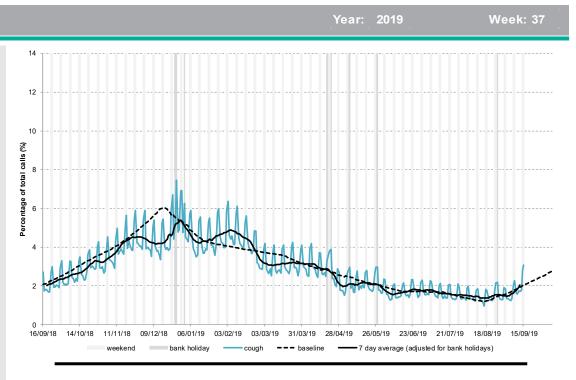
Daily 'cough' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

# 4a: Cough calls by age group

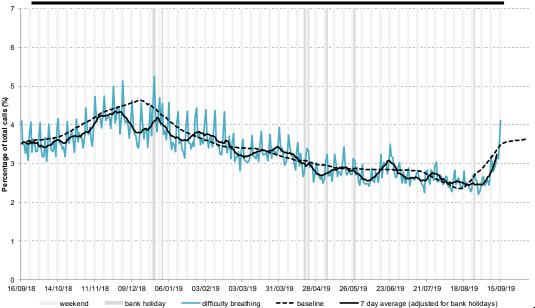
Cough calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.

## 5: Difficulty breathing

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







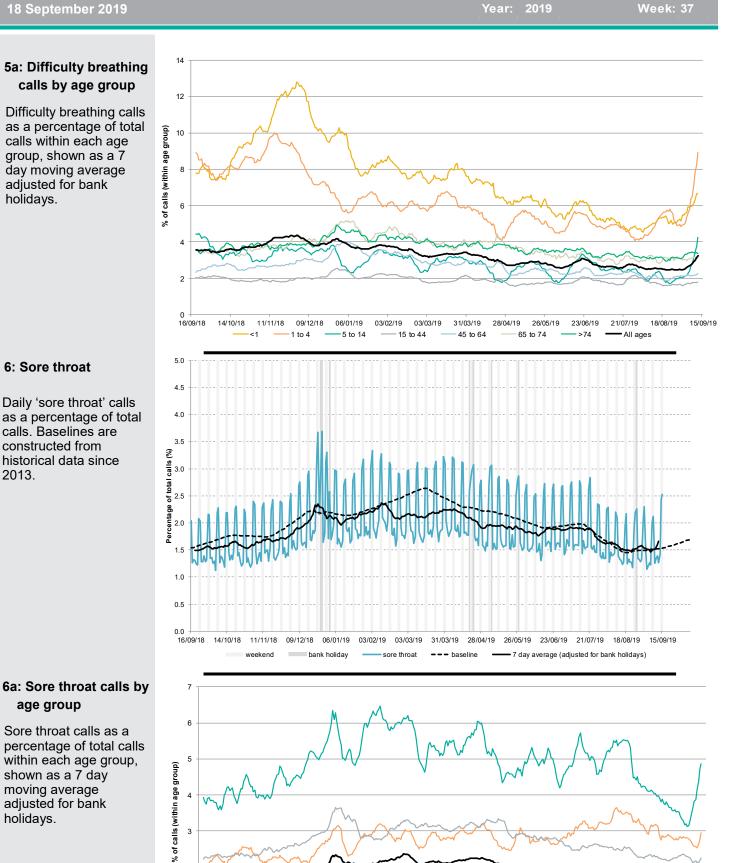
# **X** Public Health England

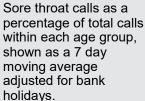
holidays.

2013.

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4

3

2

1

0 16/09/18

14/10/18

<1

4

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#### 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.

## 9: Eye problems

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

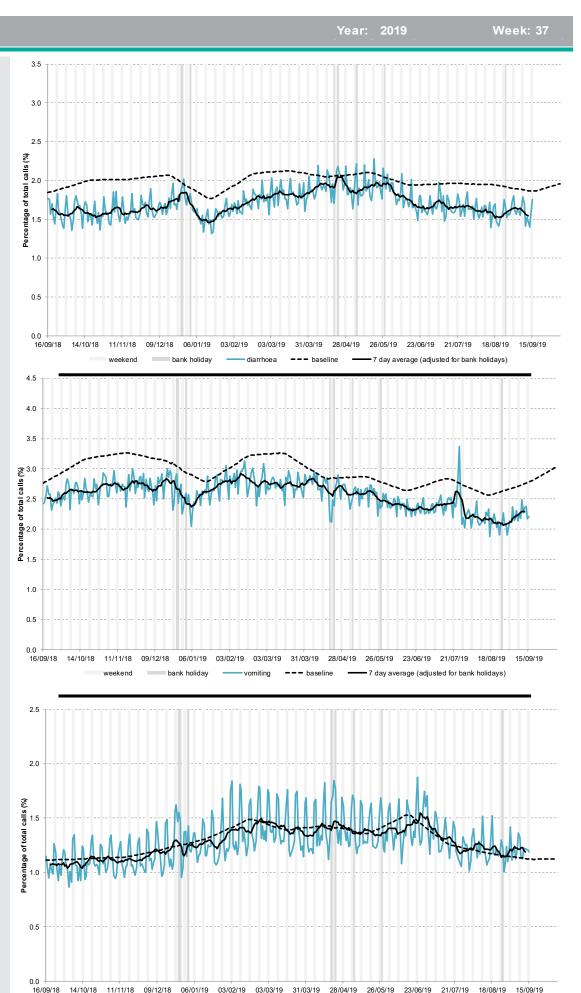
weekend

bank holidav

eye problems

--- baseline





7 day average (adjusted for bank holidays)



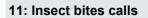
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### 9a: Eye problems calls by age group

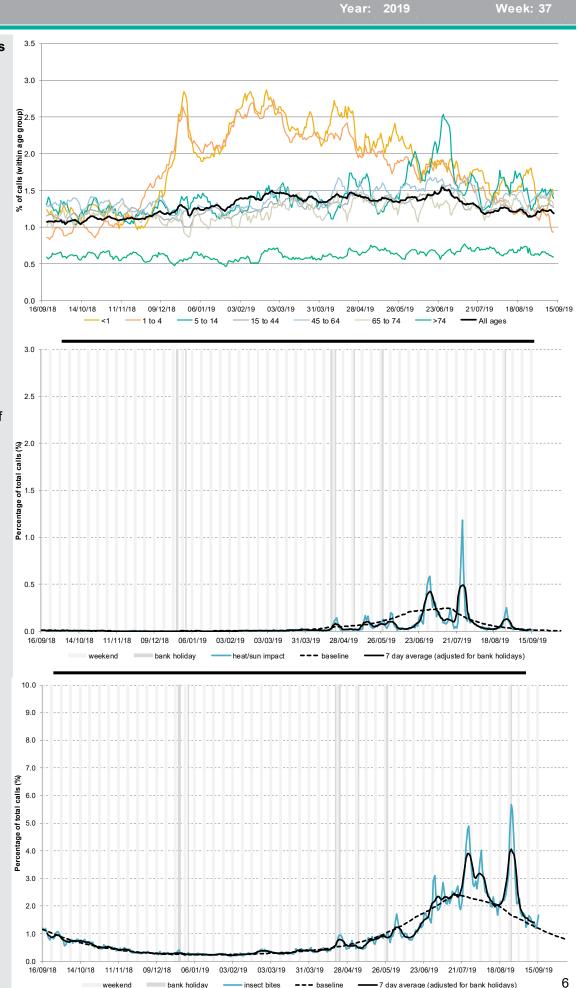
'Eye problems calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.

### 10: Heat/sun impact calls

Daily 'heat/sun impact' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.



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



| 18 September 2019  | Year: 2019 Week: 37  |
|--|--|
| 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<br>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 five years of historic data. The thresholds are re-calculated every year.</li> <li>'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>'Vega T et al. Influenza Other Respir Viruses. 2013;7(4):546-58.</li> </ul>  |
| Notes and further<br>information:                              | <ul> <li>Further information about NHS 111 can be found at:<br/><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:<br/><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.   |
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