## Public Health England

# **Remote Health Advice**

Syndromic Surveillance System: England

#### 29 October 2018

Year: 2018

Week: 43

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### Key messages

Data to: 28 October 2018

NHS 111 calls for cough continued to increase in week 43 in line with seasonal expectations (Figure 4), most notably in children (figure 4a). Difficulty breathing calls in children aged 0 to 4 years also continued to increase in week 43 (Figure 5a). This is in line with recent small increases in laboratory reports for respiratory syncytial virus (RSV).

### Syndromic indicators at a glance:

Indicator	Trend	Level
Cold/flu	no trend	pre-epidemic threshold*
Fever	no trend	below baseline levels
Cough	increasing	similar to baseline levels
Difficulty breathing	no trend	below baseline levels
Sore throat	no trend	below baseline levels
Diarrhoea	no trend	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
2018	43	211,130

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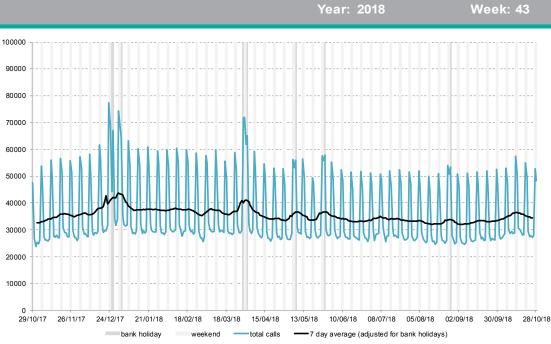
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#### 1: Total calls.

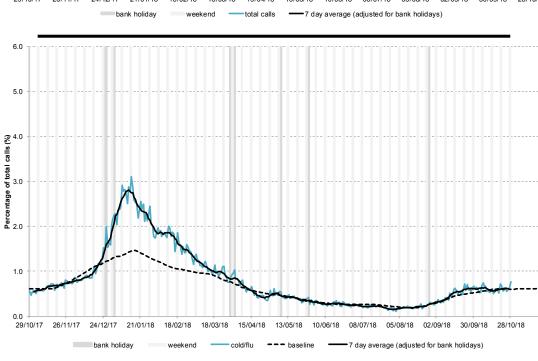
The total number of syndromic calls recorded each day by NHS 111.

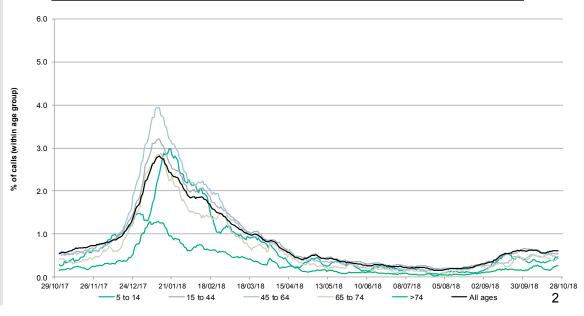
#### 2: Cold/flu

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



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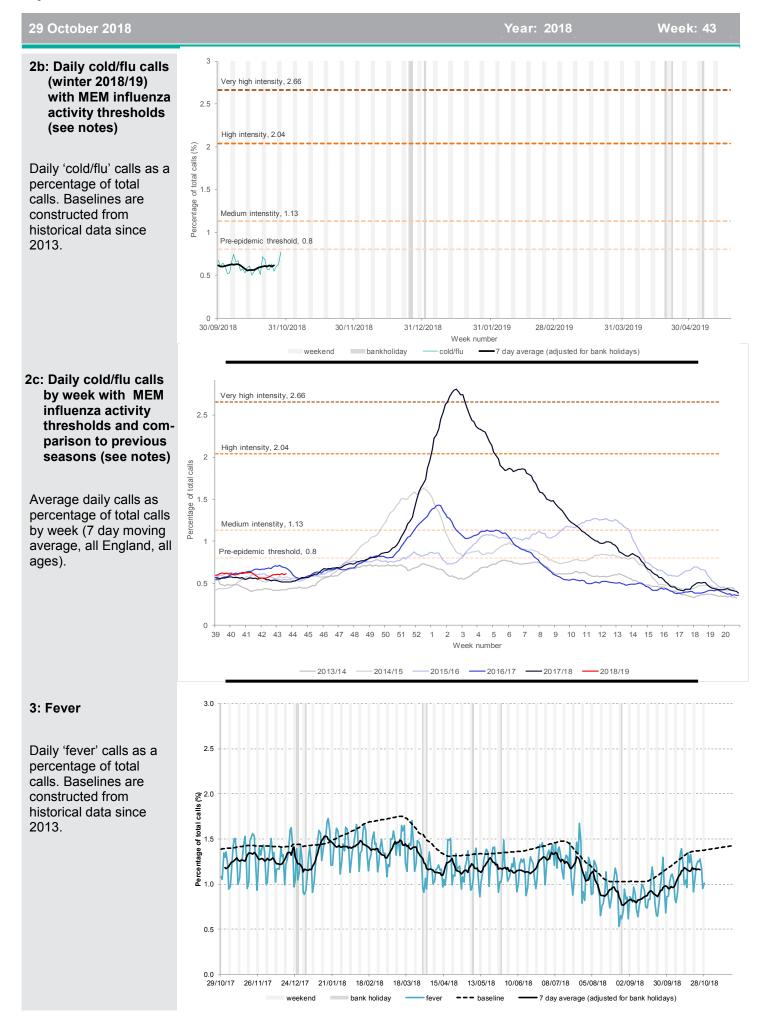


### 2a: Cold/flu by age group

Cold/flu calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays. Age groups below 5 years old not shown.

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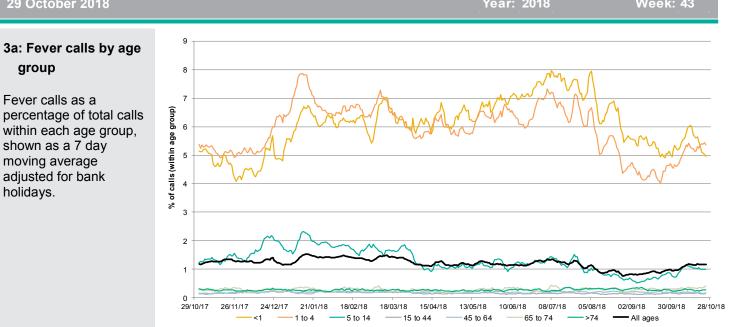


group

holidays.

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#### 4: Cough

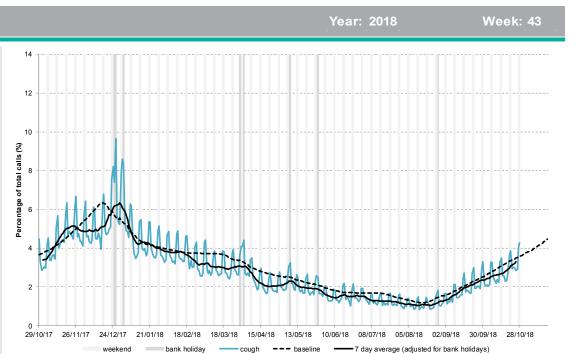
Daily 'cough' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

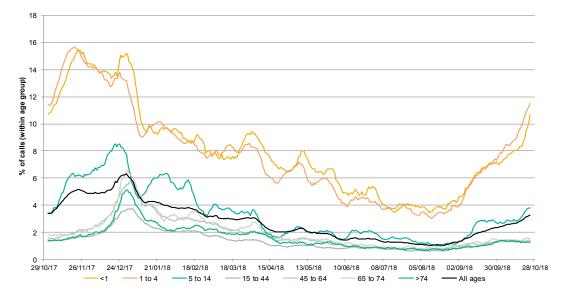
### 4a: Cough calls by age group

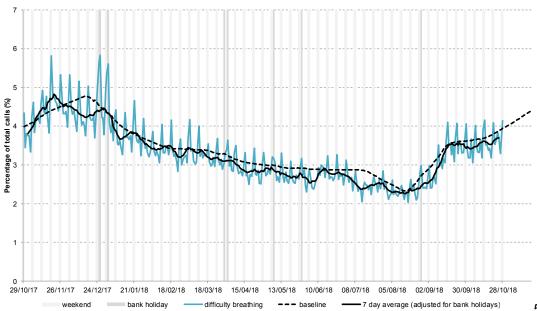
Cough calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.

#### 5: Difficulty breathing

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







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## 5a: Difficulty breathing calls by age group

14

12

10

8

6

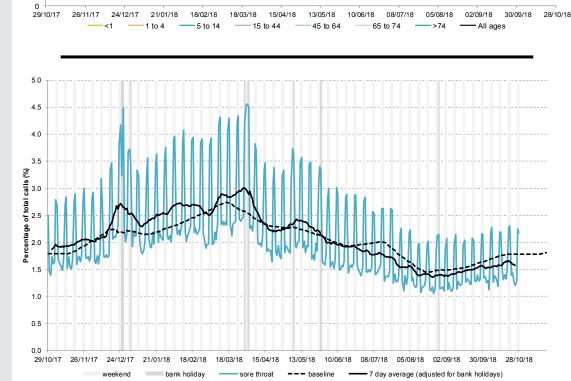
4

2

% of calls (within age group)

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



### 6: Sore throat

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

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#### 7. Diarrhoea

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

### 7a: Diarrhoea calls by age group

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.

0.5

0.0

29/10/17 26/11/17 24/12/17 21/01/18

weekend

18/02/18

bank holiday

18/03/18 15/04/18

vomiting

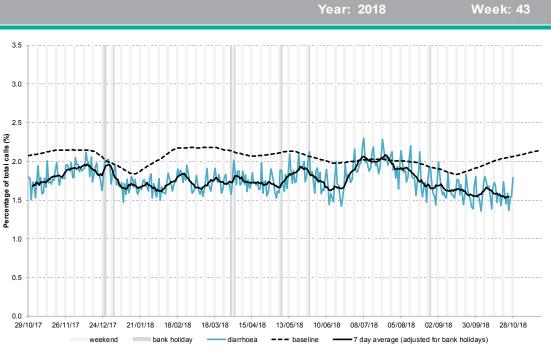
--- baseline

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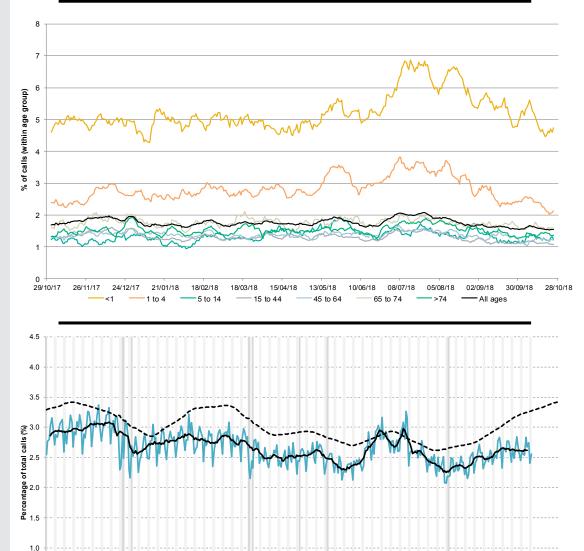
13/05/18 10/06/18 08/07/18 05/08/18 02/09/18 30/09/18

7 day average (adjusted for bank holidays)

28/10/18







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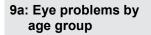
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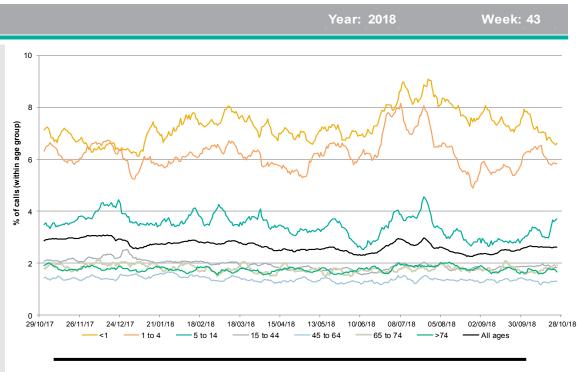
Vomiting calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.

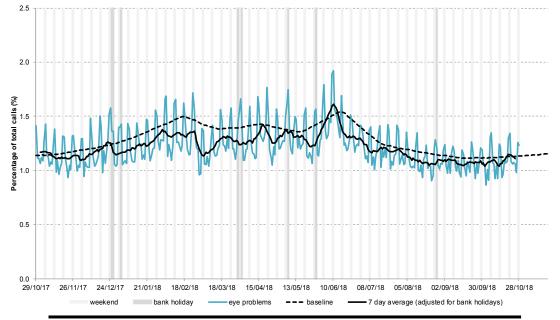
#### 9: Eye problems

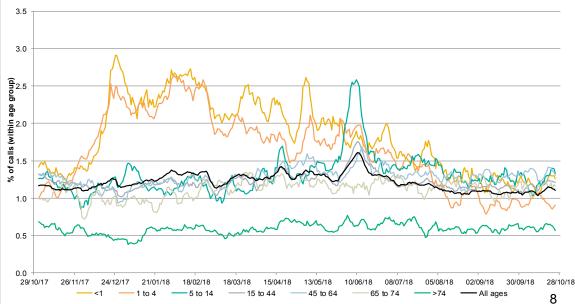
Daily 'eye problems' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.



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







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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 winter 2018/19 we are presenting 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 (2013-2018). 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><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:</li> <li>http://www.nhs.uk/NHSEngland/AboutNHSservices/ Emergencyandurgentcareservices/Pages/NHS-111.aspx</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:</li> <li>https://www.gov.uk/government/collections/syndromic-surveillance-systems- and-analyses</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.
	Remote Health Advice Syndromic Surveillance System Bulletin.
Contact ReSST: syndromic.surveillance @phe.gov.uk	Produced by:PHE Real-time Syndromic Surveillance Team1st Floor, 5 St Philips Place, Birmingham, B3 2PWTel:0344 225 3560 > Option 4 > Option 2Fax:0121 236 2215Web:https://www.gov.uk/government/collections/syndromic-surveillance-systems-and-analyses9