

Diarrhoea. Vomiting.

Eye problems.

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

## **Remote Health Advice**

Syndromic Surveillance System: England

22 January 2020		Year: 2020	Week: 3
n This Issue:	Key messages	Data te	o: 19 January 2020
Key messages.			
Syndromic indicators at a glance.	During week 03, NHS 111 cold/flu calls further decreased and overall have now returned to baseline levels (figures 2, 2a & 2c).		
Data summary.		_,,	
Indicators by syndrome.			
Total calls.			
Cold/flu.			
Fever.			
Cough.	A Cold Watch System operates in England from 1 Novemb	or to 31 March cach year A	s part of the Public Health
Difficulty Breathing.	England Cold Weather Plan for England the PHE Real-time impact of cold weather on syndromic surveillance data duri	e Syndromic Surveillance Te	
Sore throat.	Cold weather alert level (current reporting week): Level 1/2		t & readiness

## Syndromic indicators at a glance:

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

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

## Data summary:

Year	Week	Total calls
2020	3	260,340

#### 1: Total calls.

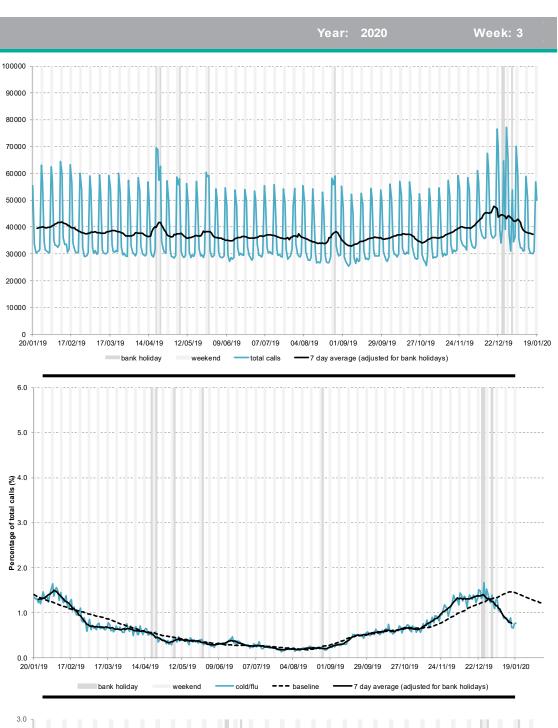
The total number of syndromic calls recorded each day by NHS 111.

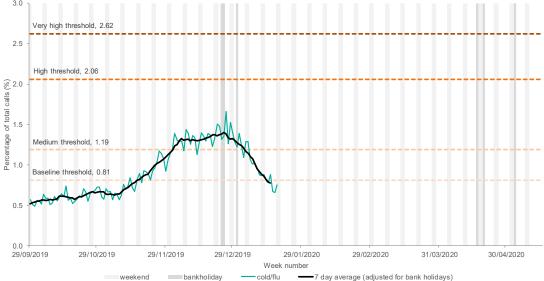


Daily 'cold/flu' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

#### 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.



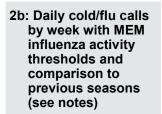


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## Wir Health England

#### 22 January 2020

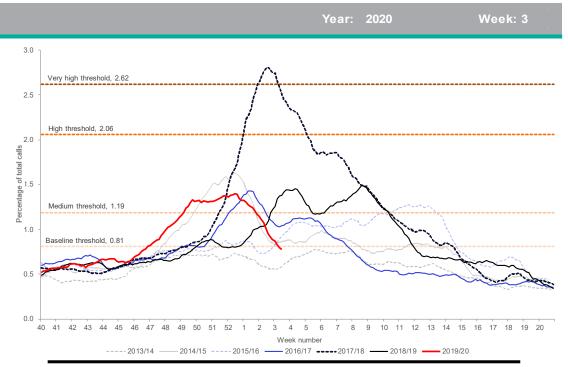
## **Remote Health Advice**

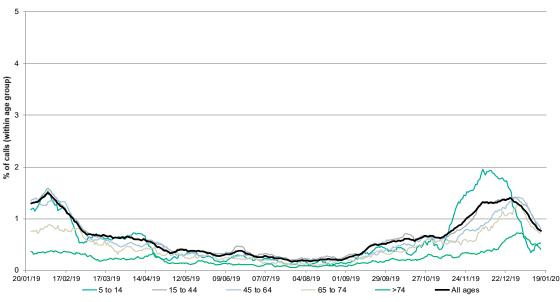


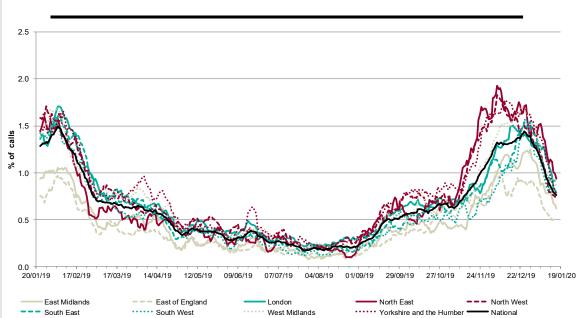
Daily calls as percentage of total calls (7 day moving average adjusted for bank holidays. All England. All ages).

## 2c: 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.







#### 2d: Cold/flu by PHE Centre

Cold/flu calls by PHE Centre as a percentage of total calls shown as a 7 day moving average adjusted for bank holidays.

3

#### 3: Fever

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

#### Daily 'cough' calls as a percentage of total calls. Baselines are constructed from

historical data since

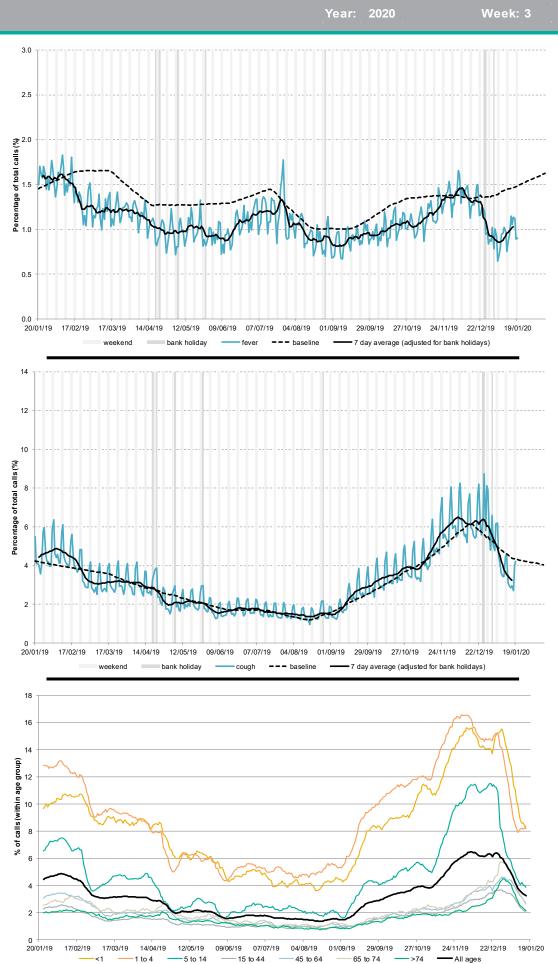
4: Cough

2013.

## 4a: Cough calls by age group

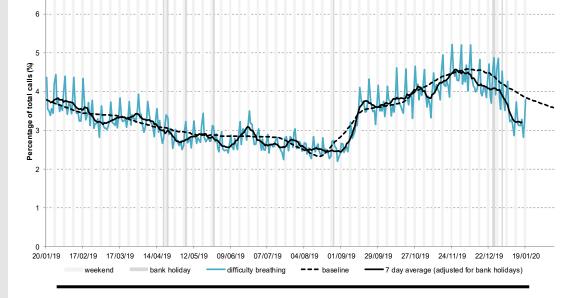
Cough calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.





#### 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

14

12

10

8

6

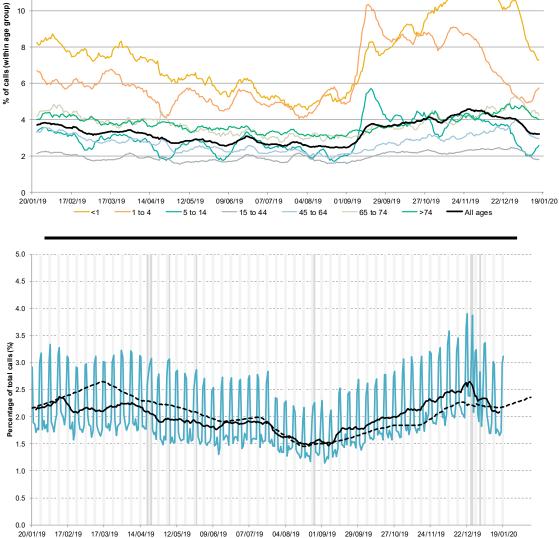
Difficulty breathing calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.

#### 6: Sore throat

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

## **Remote Health Advice**

Week: 3



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Public Health England

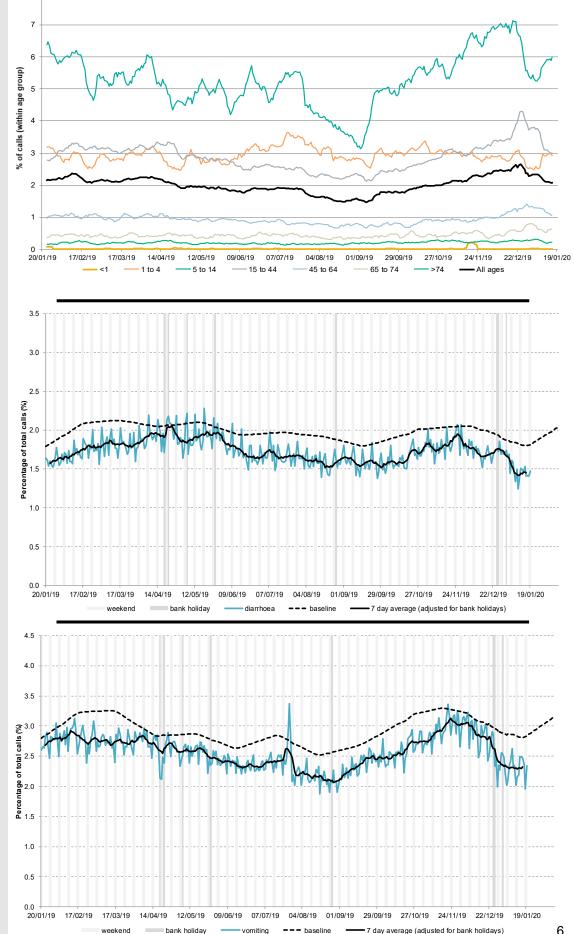
#### 6a: Sore throat calls by age group

8

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: 3

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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

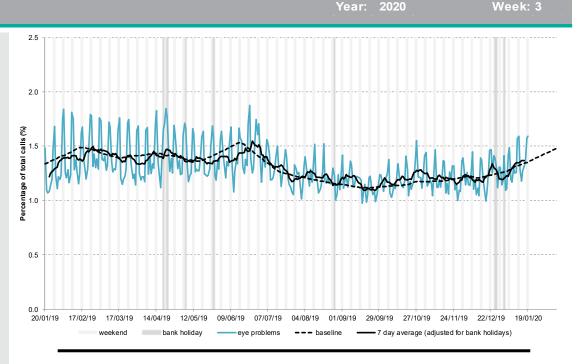
Daily 'vomiting' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

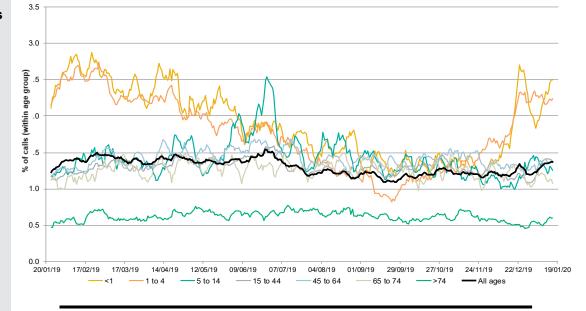
#### 9: Eye problems

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

#### 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.





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22 January 2020	Year: 2020 Week: 3
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.
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