

Remote Health Advice

Syndromic Surveillance System: England

23 December 2019

Year: 2019

Week: 51

Key messages

Data to: 22 December 2019

During week 51, NHS 111 cold/flu calls increased slightly, remaining at stable at medium intensity levels (figures 2 & 2a). Calls decreased in children aged 5-14 years but increased in adults (figure 2c), and decreased in the North but increased across other regions (figure 2d).

Calls for cough and difficulty breathing decreased in children aged <5 years in line with decreasing seasonal respiratory syncytial virus activity (figures 4a & 5a).

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 1/2 Winter preparedness/Alert & readiness http://www.metoffice.gov.uk/weather/uk/coldweatheralert/

Syndromic indicators at a glance:

Indicator	Trend	Level
Cold/flu	increased	medium intensity*
Fever	no trend	similar to baseline levels
Cough	no trend	similar to baseline levels
Difficulty breathing	decreasing	below baseline levels
Sore throat	increasing	above baseline levels
Diarrhoea	decreasing	below baseline levels
Vomiting	decreasing	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
2019	51	333,660

Key messages.

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Acknowledgements.

1: Total calls.

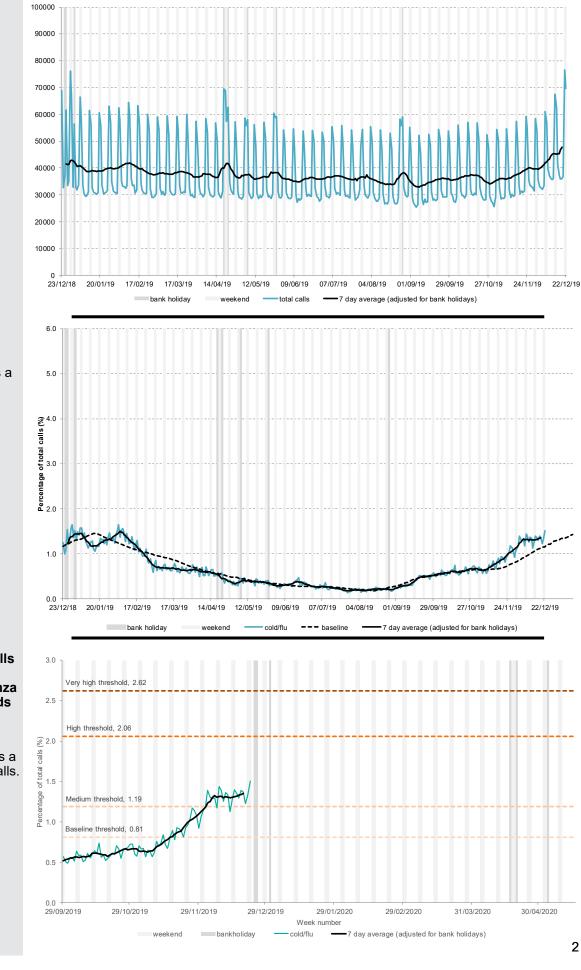
The total number of syndromic calls recorded each day by NHS 111.

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

2: Cold/flu

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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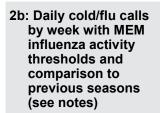
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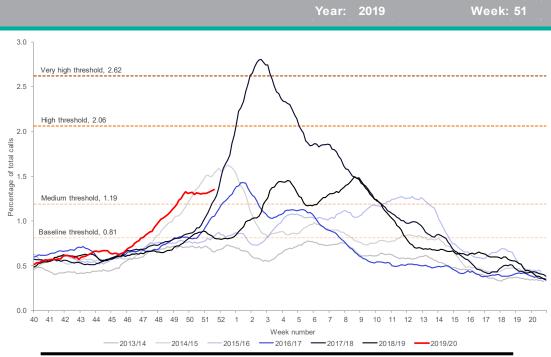
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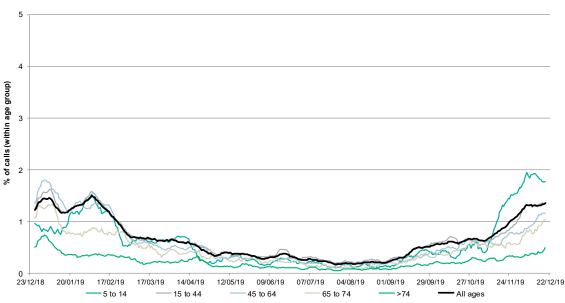


Average daily calls as percentage of total calls by week (7 day moving average, All England, All ages).



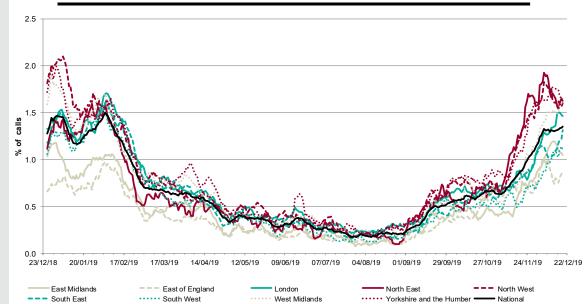
Cold/flu calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays. Age groups below 5 years old not shown.





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: 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.

20/01/19

17/02/19

17/03/19

1 to 4

14/04/19

5 to 14

12/05/19

09/06/19

- 15 to 44

07/07/19

45 to 64

04/08/19

01/09/19

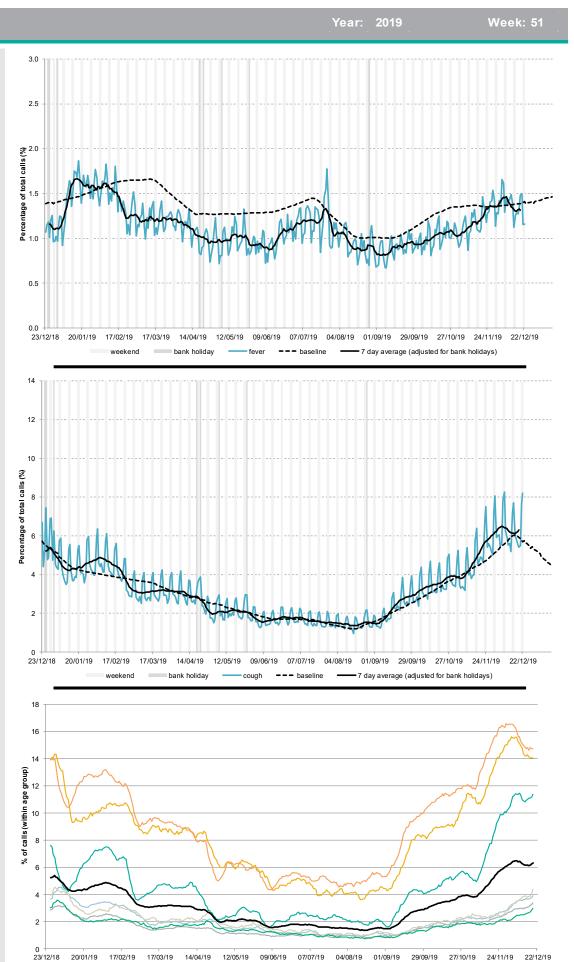
65 to 74

29/09/19

>74

All ages

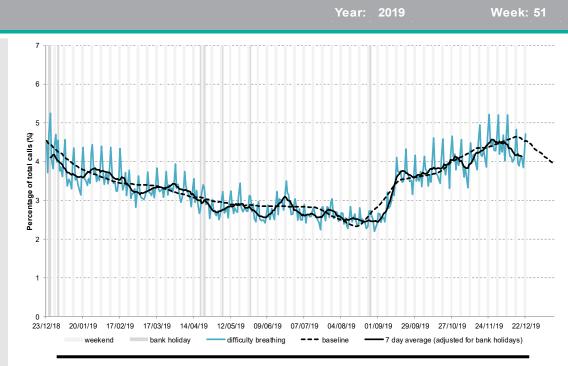




22/12/19

5: Difficulty breathing

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

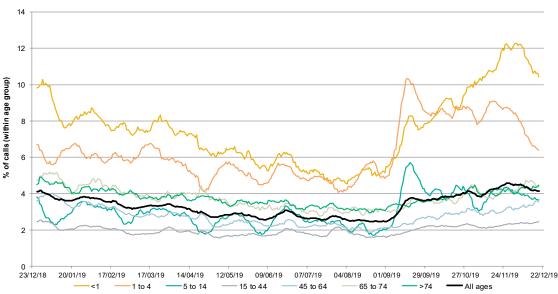


5a: Difficulty breathing calls by age group

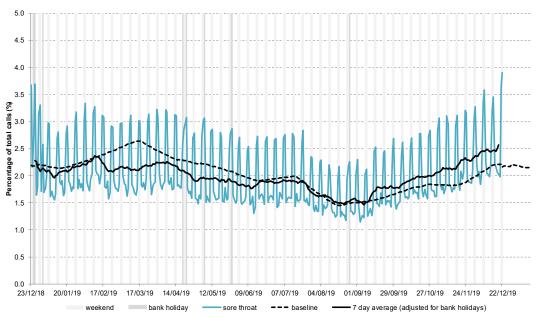
Difficulty breathing calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.



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



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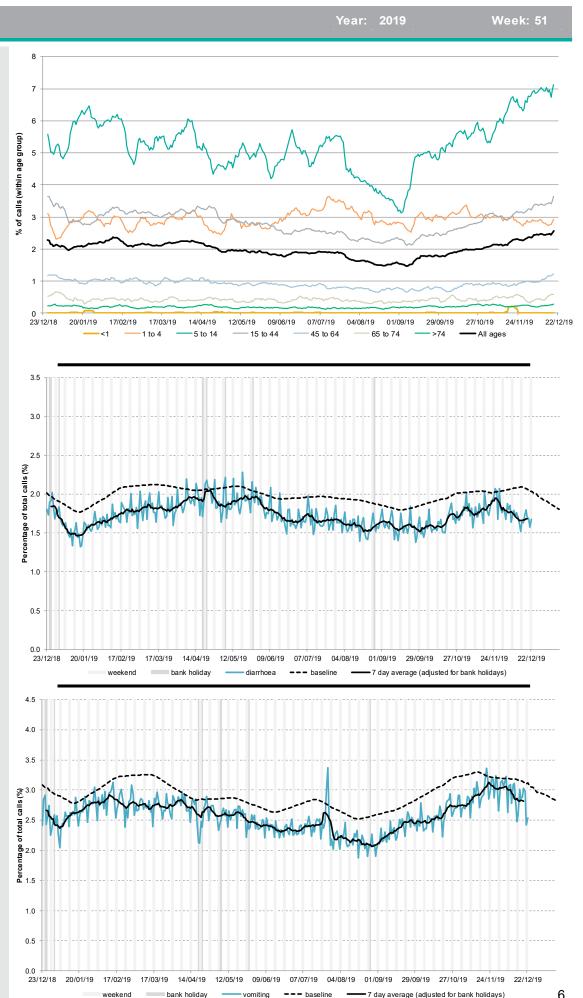
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6a: Sore throat calls by age group

Sore throat 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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7. Diarrhoea

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

8: Vomiting calls

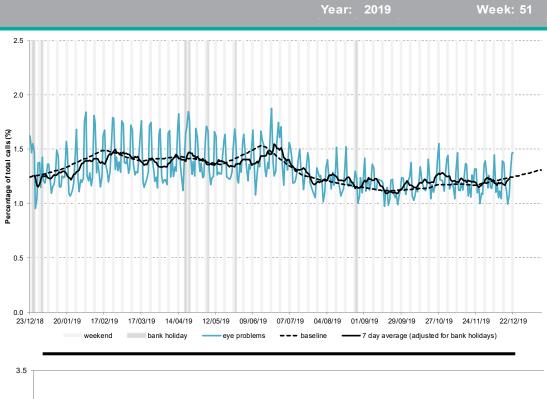
Daily 'vomiting' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

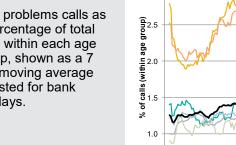
9: Eye problems

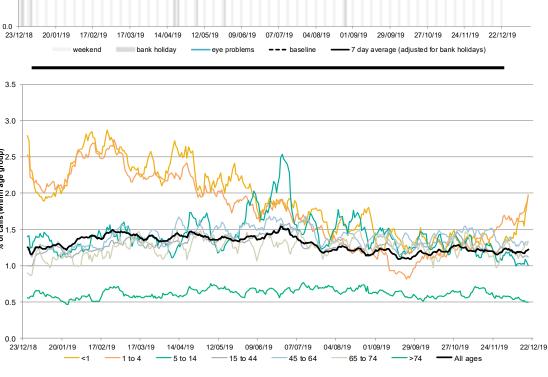
Daily 'eye problems' calls as a percentage of total calls. Baselines are constructed from historical data since 2013.

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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Introduction to charts:	 Weekends and bank holidays are marked by vertical grey lines (bank holidays darker grey). A 7-day moving average (adjusted for bank holidays) is overlaid on the daily data reported in each chart, unless specified. 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. 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.
Moving Epidemic Method (MEM):	 During each winter we present Moving Epidemic Method (MEM) influenza thresholds on selected indicators. The moving epidemic method or MEM is a standard methodology used for setting influenza thresholds across many European nations.¹ MEM is used for NHS 111 cold/flu thresholds at a national level. MEM thresholds should be interpreted using 7 day moving averages rather than daily data. MEM thresholds currently use six years of historic data (2013-2019). The thresholds are re-calculated every year. Baseline ('pre-epidemic') thresholds are used alongside other surveillance systems to identify the start of influenza circulating in the community. 40%, 95% and 97.5% intensity thresholds are used to identify when influenza activity moves from low to medium, high or very high. ¹Vega T et al. Influenza Other Respir Viruses. 2013;7(4):546-58.
Notes and further information:	 Further information about NHS 111 can be found at: https://www.nhs.uk/using-the-nhs/nhs-services/urgent-and-emergency-care/ nhs-111/ 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: https://www.gov.uk/government/collections/syndromic-surveillance-systems- and-analyses
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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Web: https://www.gov.uk/government/collections/syndromic-surveillance-systems-and-analyses