



14 December 2016

Year: 2016

Week: 49

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Key messages

Data to: 11 December 2016

Cold/flu calls continued to increase in week 49 across all age groups but remain below levels expected for this time of year (figures 2 & 2a).

NHS 111 calls for diarrhoea and vomiting remained above levels expected for the time of year during week 49 (figures 7 & 8).

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 and Action / Alert and Readiness**
<http://www.metoffice.gov.uk/weather/uk/coldweatheralert/>

Syndromic indicators at a glance:

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

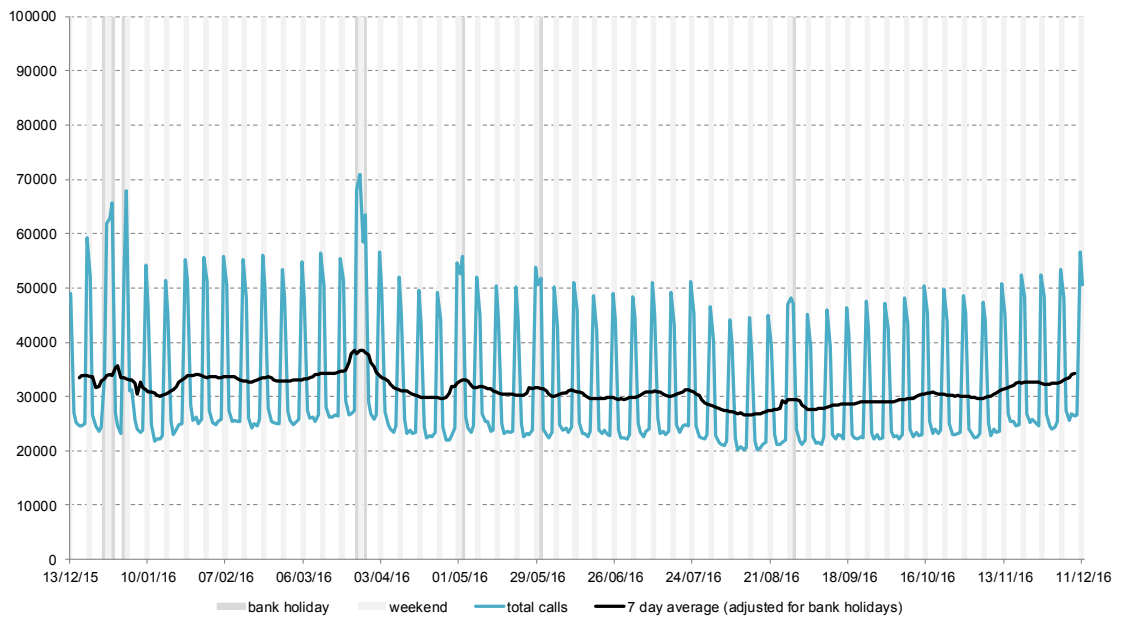
*Since week 47 2014 new baselines have been introduced for comparison with previous years. Baselines use historical data from the NHS Direct surveillance system to estimate seasonal trend but with levels adjusted to reflect changes since the switch to using NHS 111 data in September 2013.

Data summary:

Year	Week	Total calls
2016	49	240,204

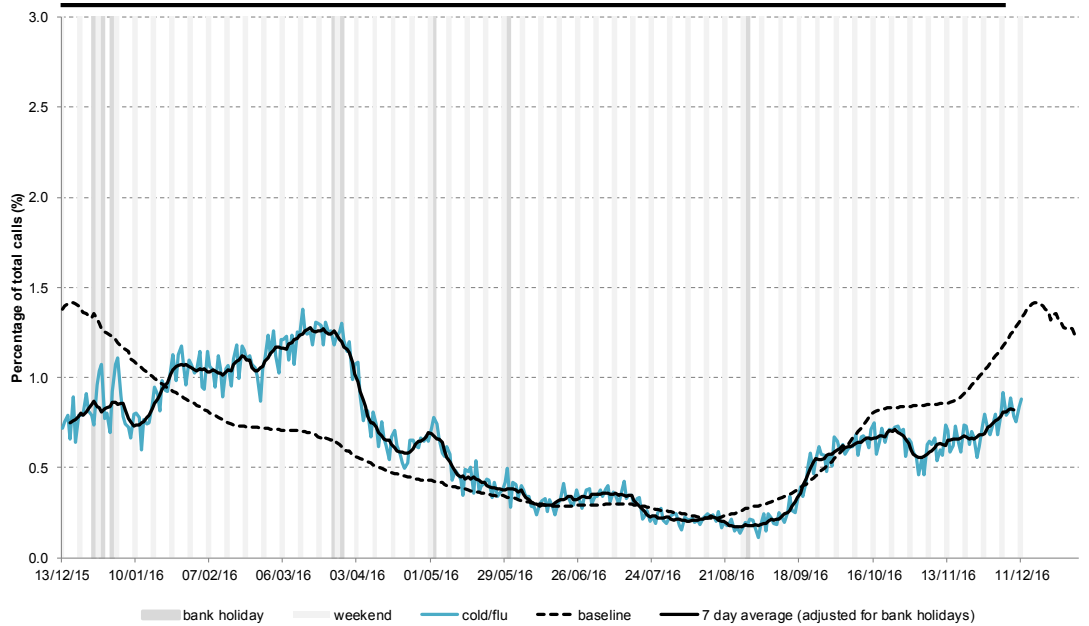
1: Total calls.

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



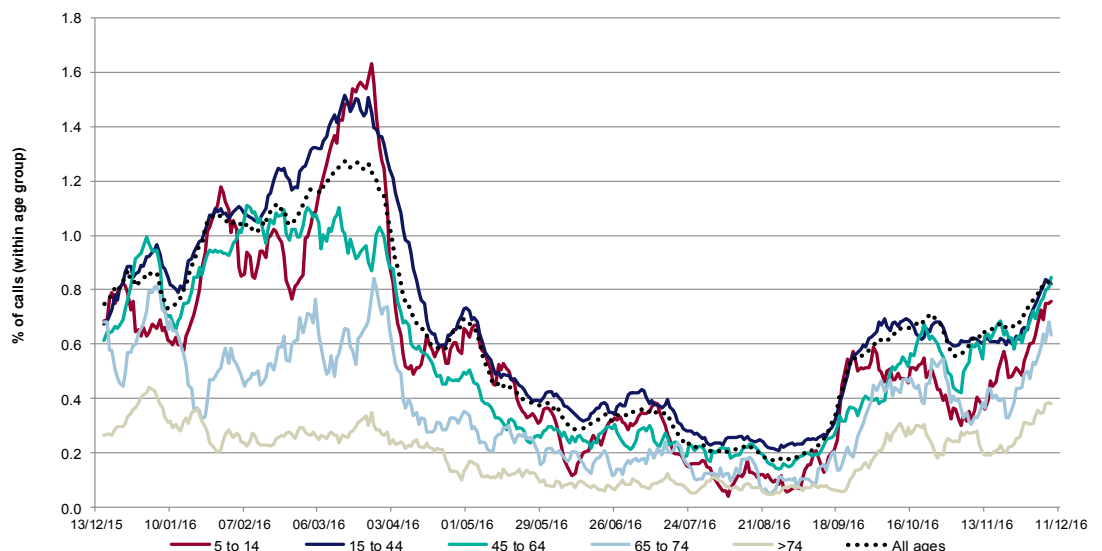
2: Cold/flu

Daily 'cold/flu' calls as a percentage of total calls. Baselines are constructed from historical data since 2010, including data from NHS 111 and NHS Direct.



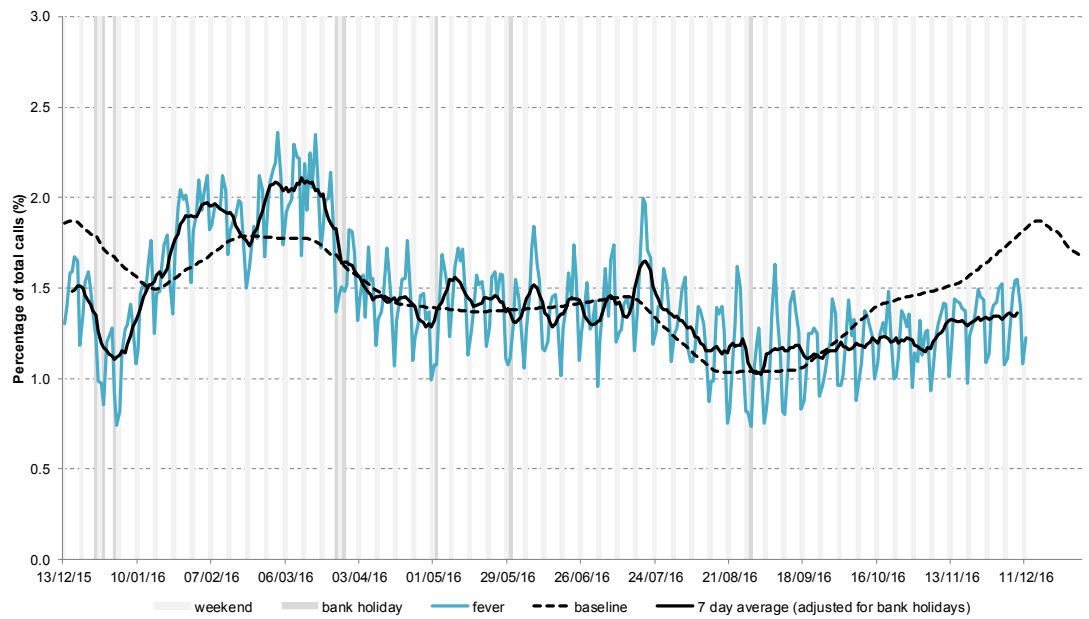
2a: Cold/flu calls by age group

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.



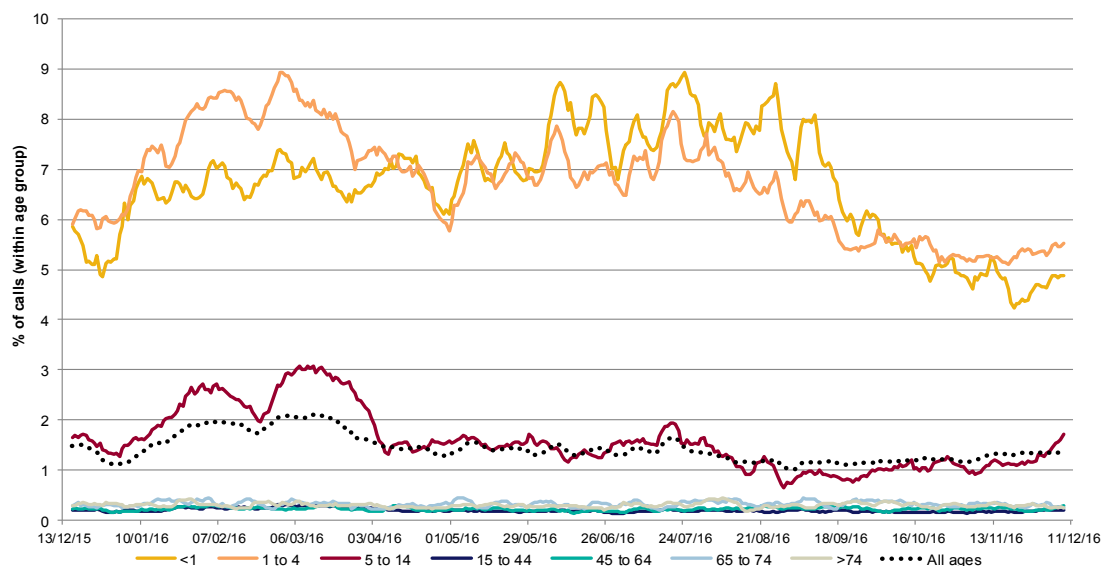
3: Fever

Daily 'fever' calls as a percentage of total calls. Baselines are constructed from historical data since 2010, including data from NHS 111 and NHS Direct.



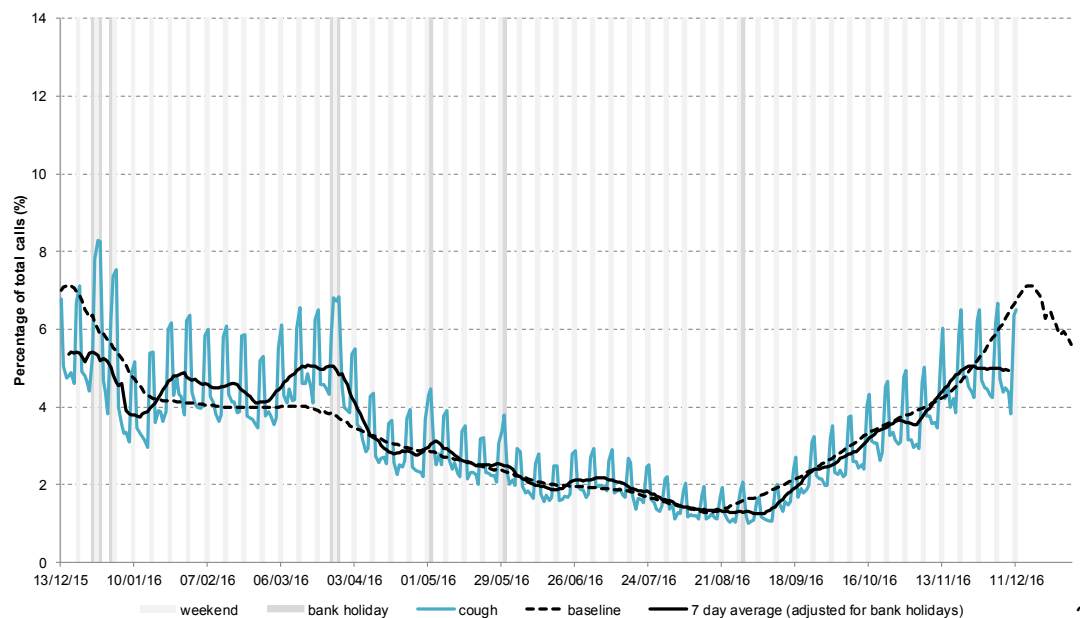
3a: Fever calls by age group

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



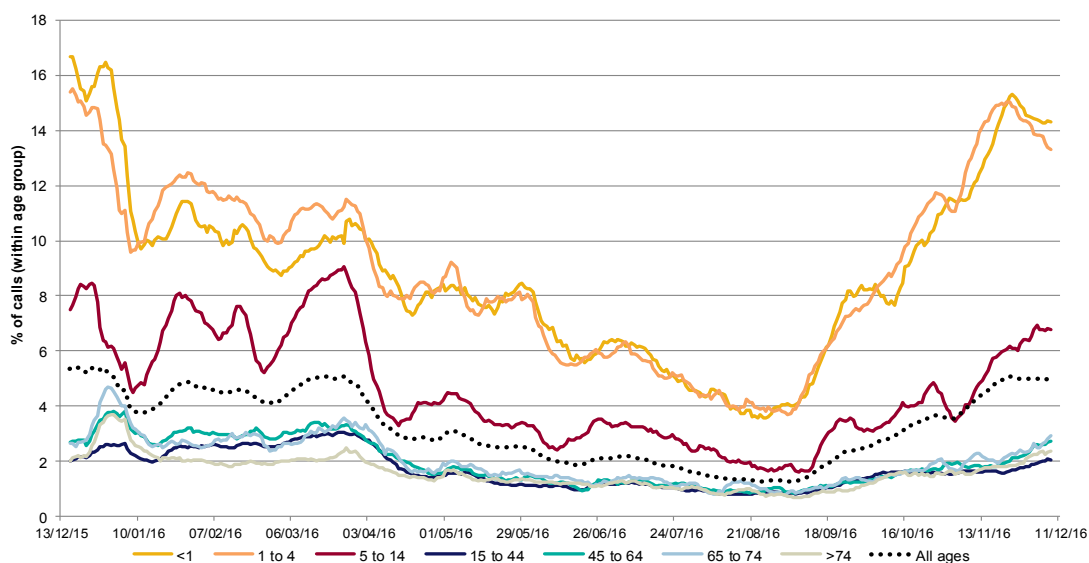
4: Cough

Daily 'cough' calls as a percentage of total calls. Baselines are constructed from historical data since 2010, including data from NHS 111 and NHS Direct.



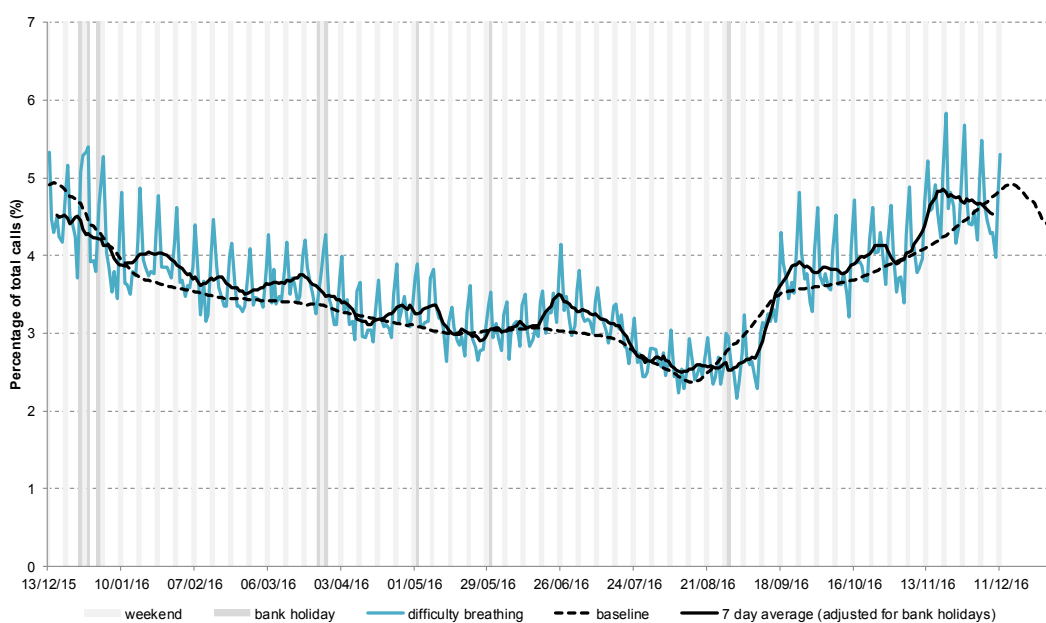
4a: Cough calls by age group

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



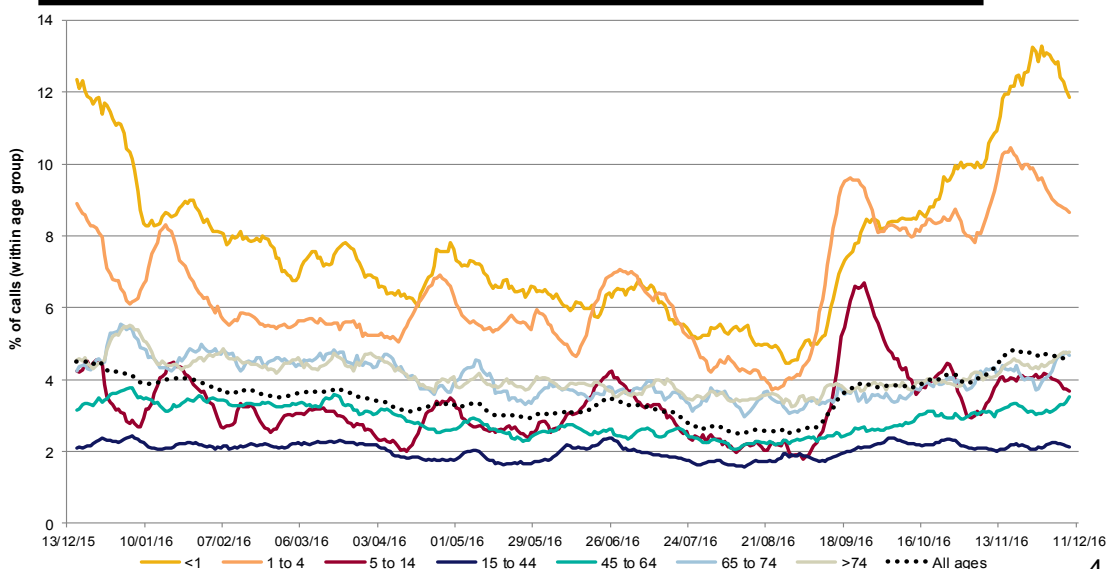
5: Difficulty breathing

Daily 'difficulty breathing' calls as a percentage of total calls. Baselines are constructed from historical data since 2010, including data from NHS 111 and NHS Direct.



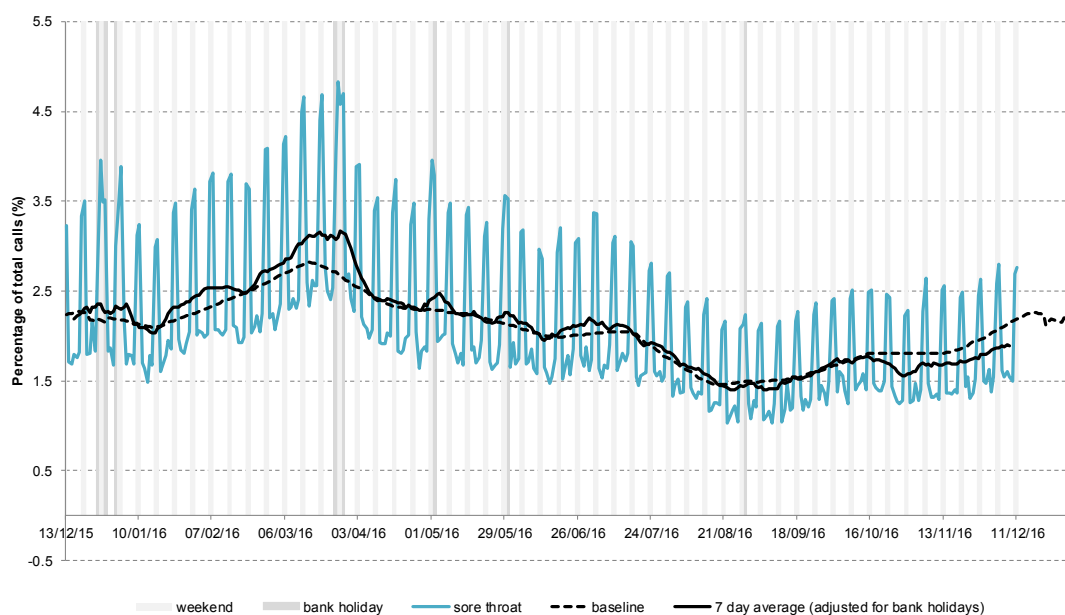
5a: Difficulty breathing calls by age group

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



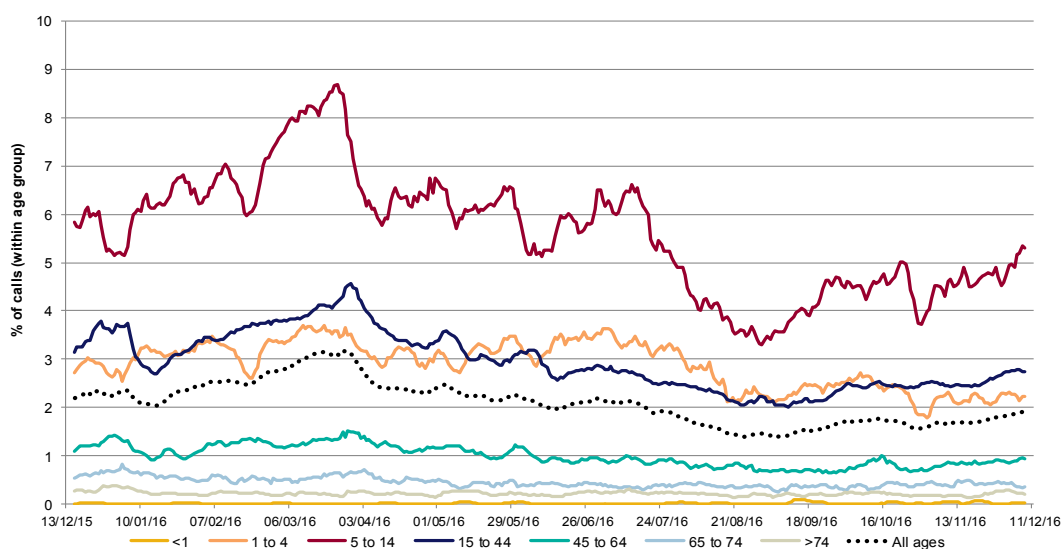
6: Sore throat

Daily 'sore throat' calls as a percentage of total calls. Baselines are constructed from historical data since 2010, including data from NHS 111 and NHS Direct.



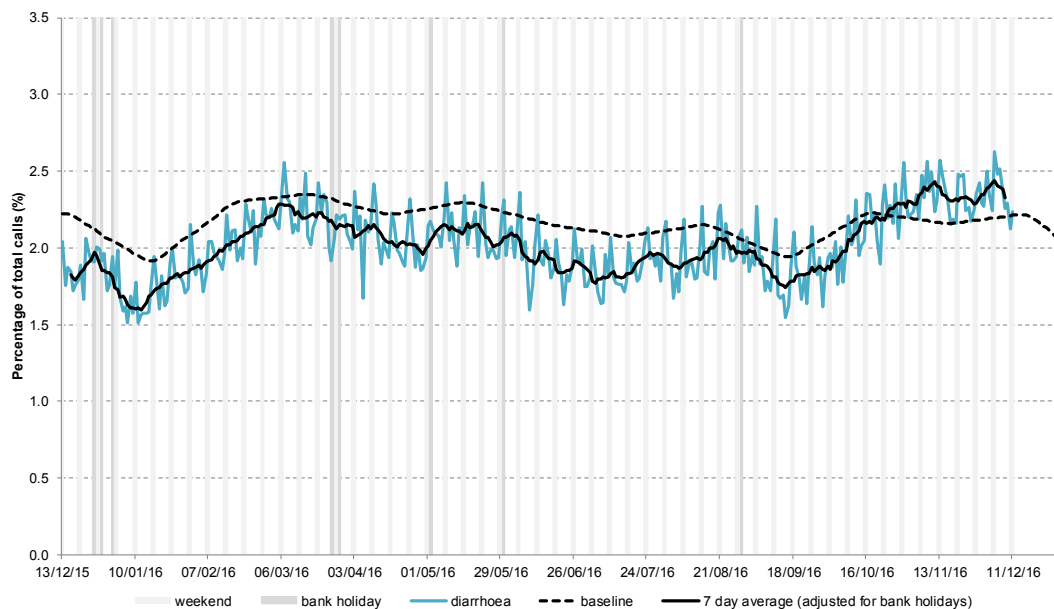
6a: Sore throat by age group

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



7. Diarrhoea

Daily 'diarrhoea' calls as a percentage of total calls. Baselines are constructed from historical data since 2010, including data from NHS 111 and NHS Direct.



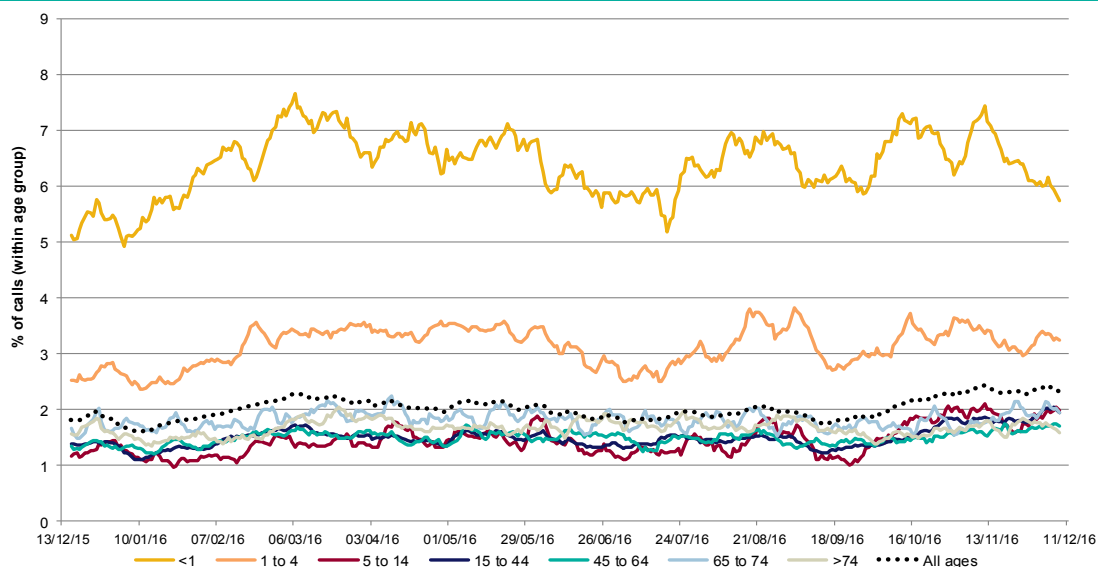
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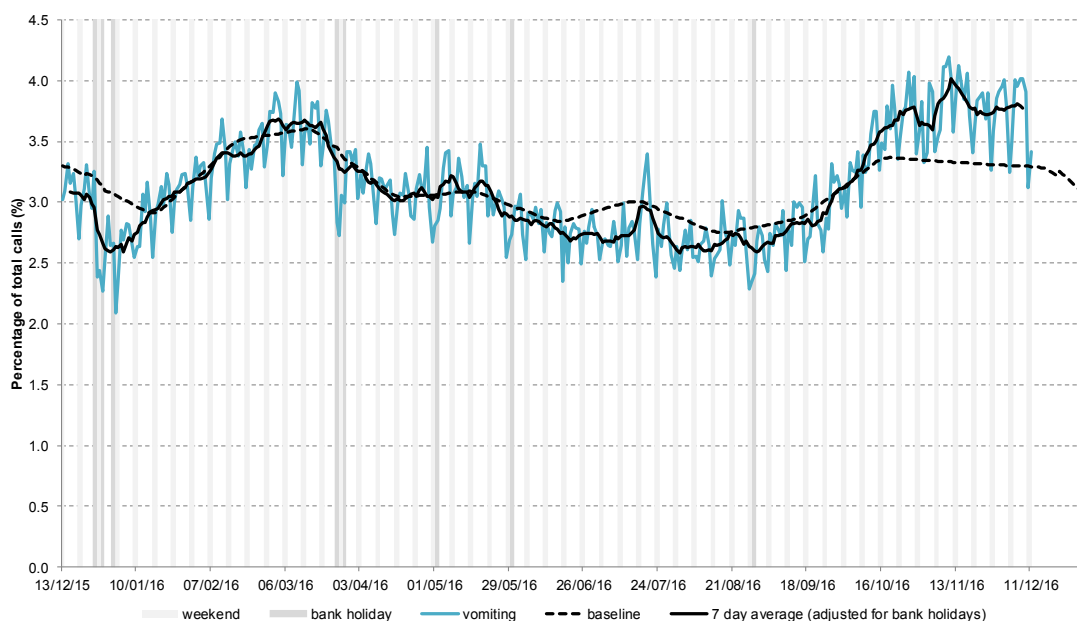
7a: Diarrhoea by age group

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



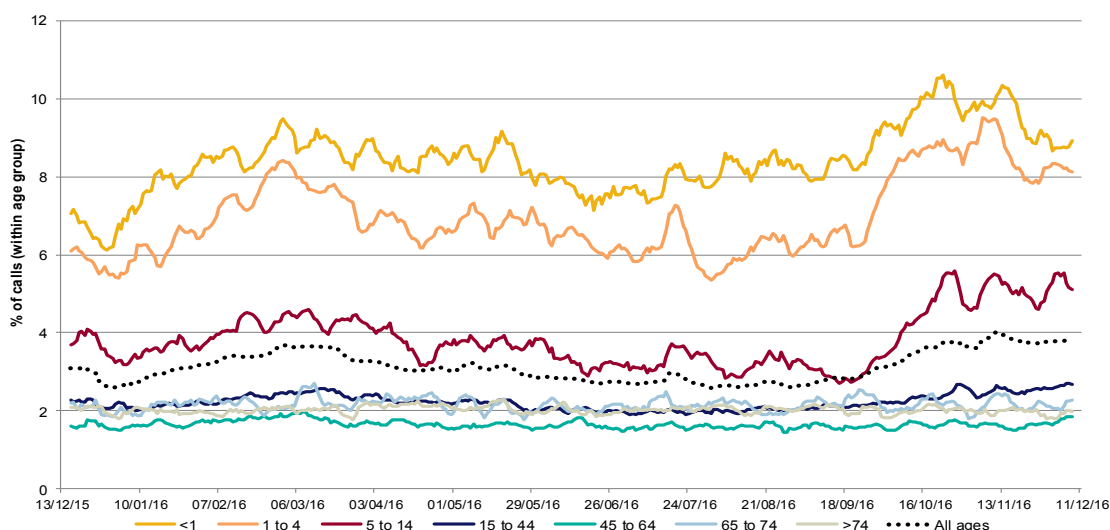
8: Vomiting

Daily 'vomiting' calls as a percentage of total calls. Baselines are constructed from historical data since 2010, including data from NHS 111 and NHS Direct.



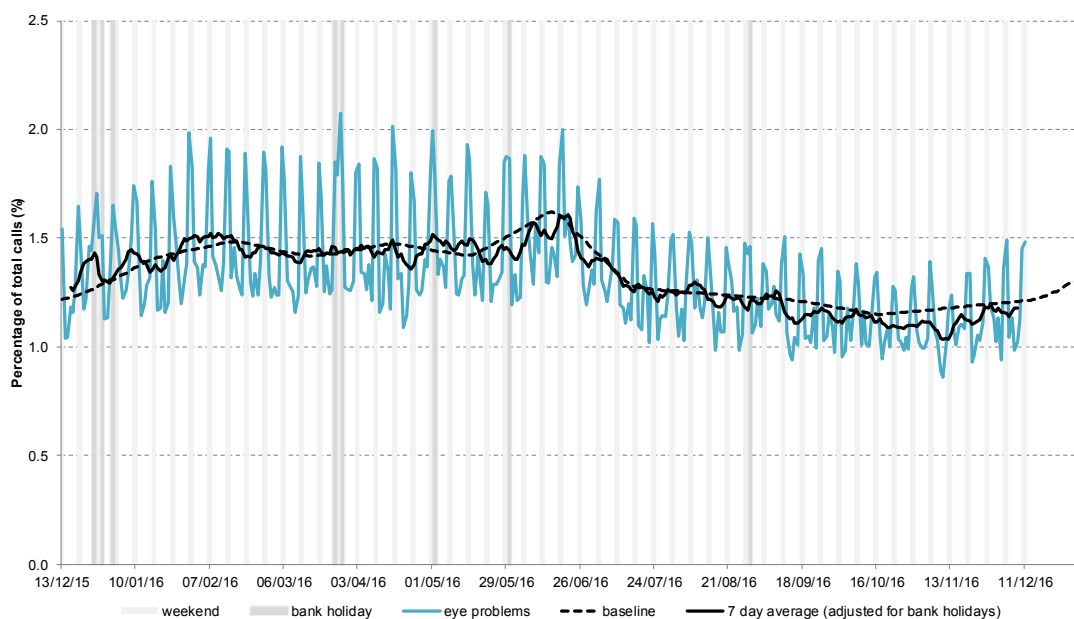
8a: Vomiting by age group

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 2010, including data from NHS 111 and NHS Direct.



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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. Furthermore, 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.
- This new syndromic surveillance system is still under development and further analyses at PHE Centre level will be included in future bulletins.
- 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.

Notes and further information:

Further information about NHS 111 can be found at:

<http://www.nhs.uk/NHSEngland/AboutNHSservices/Emergencyandurgentcareservices/Pages/NHS-111.aspx>

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.

Remote Health Advice Syndromic Surveillance System Bulletin.

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