



15 September 2015

Year: 2015

Week: 37

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Key messages

Data to: 13 September 2015

There were increases in cough and difficulty breathing calls during week 37 (figures 4, 5), particularly in the 1-4 and 5-14 years age groups (figure 4a, 5a). An increase usually occurs at this time of year, coinciding with the return to school after the summer holidays.

A Heat-Health Watch system operates in England from 1 June to 15 September each year. As part 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 system during this period.

Heat-health watch level (current reporting week): level 1 [Summer preparedness](http://www.metoffice.gov.uk/weather/uk/heathealth/)
<http://www.metoffice.gov.uk/weather/uk/heathealth/>

Syndromic indicators at a glance:

| Indicator | Trend | Level * |
|----------------------|------------|----------------------------|
| Cold/flu | Increasing | Above baseline levels |
| Fever | No trend | Similar to baseline levels |
| Cough | Increasing | Above baseline levels |
| Difficulty breathing | Increasing | Above baseline levels |
| Sore throat | Increasing | Above baseline levels |
| Diarrhoea | Decreasing | Similar to baseline levels |
| Vomiting | Decreasing | Similar to baseline levels |
| Eye problems | No trend | Similar to baseline levels |
| Heatstroke | No trend | Similar to baseline levels |

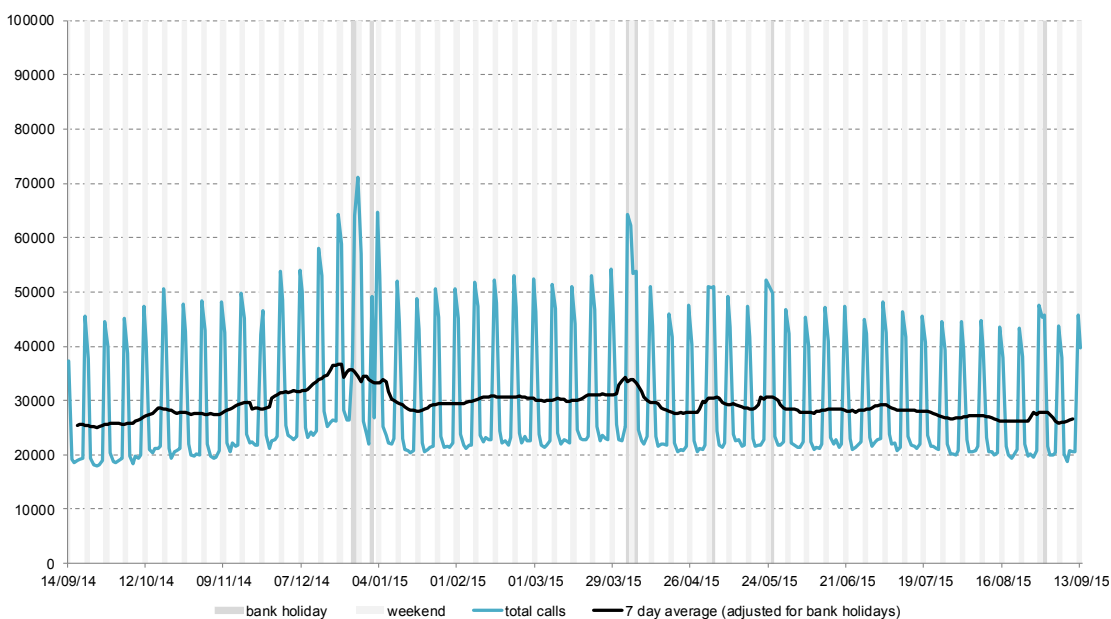
*Since week 47 2014 new baselines have been introduced for comparison with previous years. Baselines use historical data from the NHS Direct surveillance system to estimate seasonal trend but with levels adjusted to reflect changes since the switch to using NHS 111 data in September 2013.

Data summary:

| Year | Week | Total calls |
|------|------|-------------|
| 2015 | 37 | 186,770 |

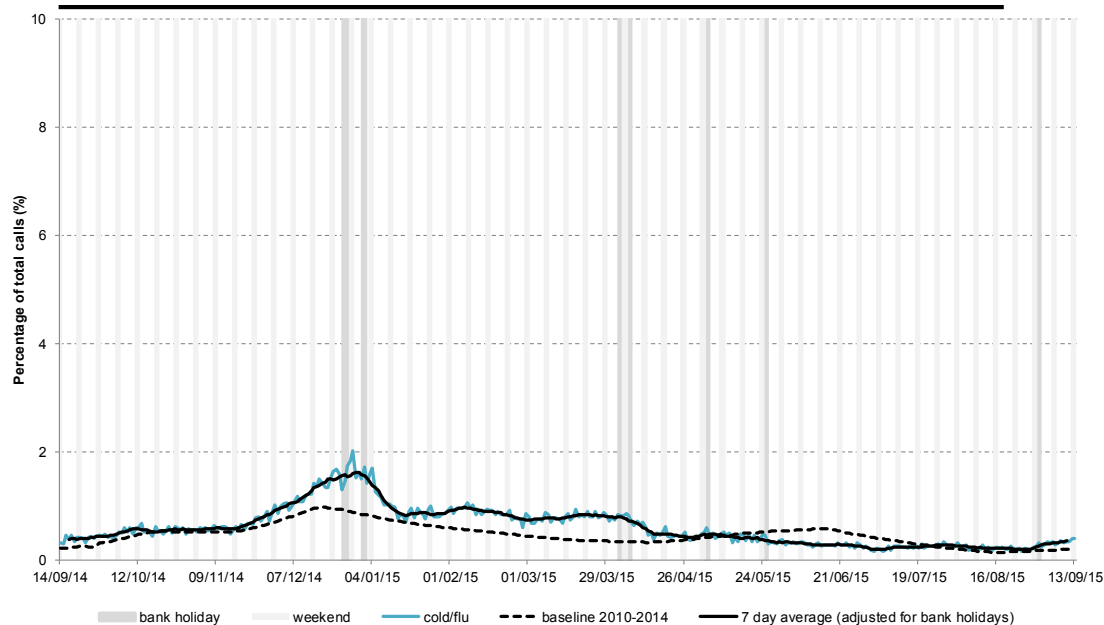
1: Total calls.

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



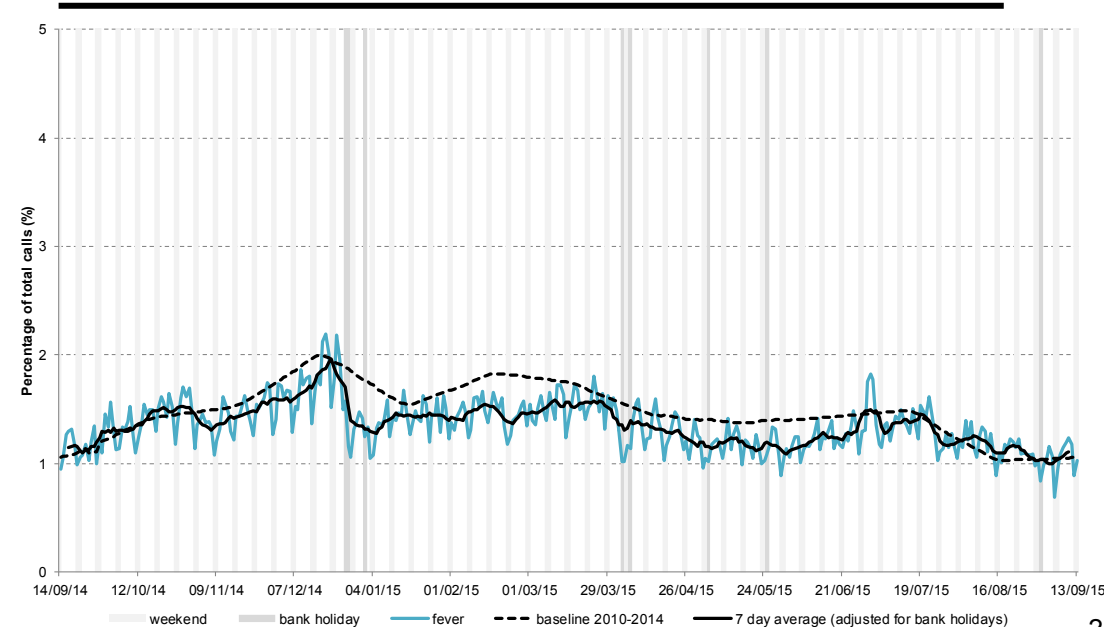
2: Cold/flu

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.



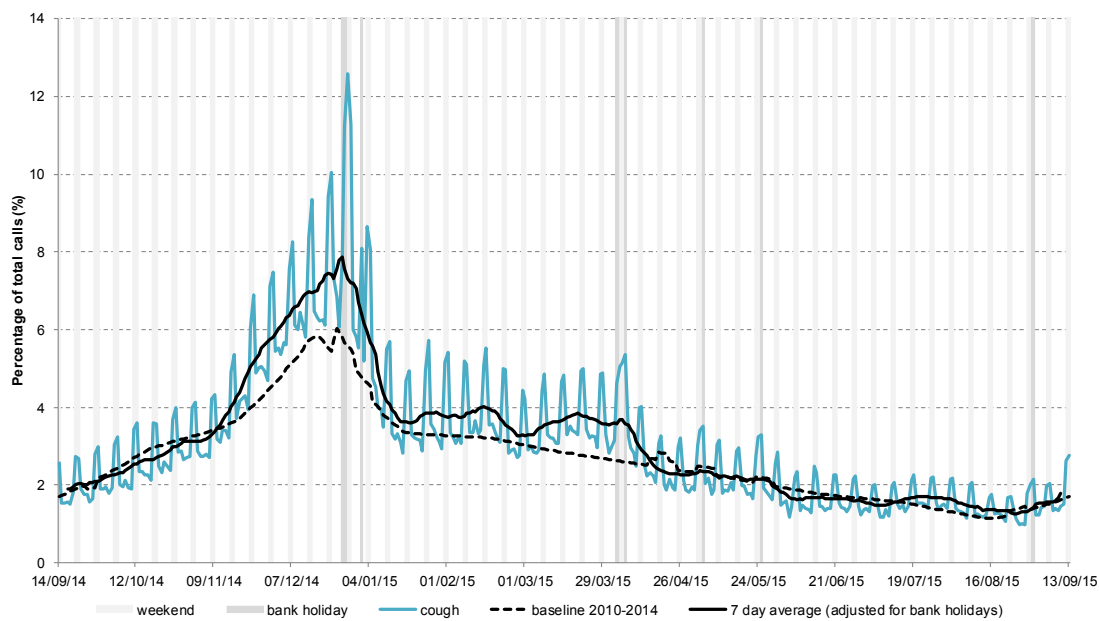
3: Fever

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.



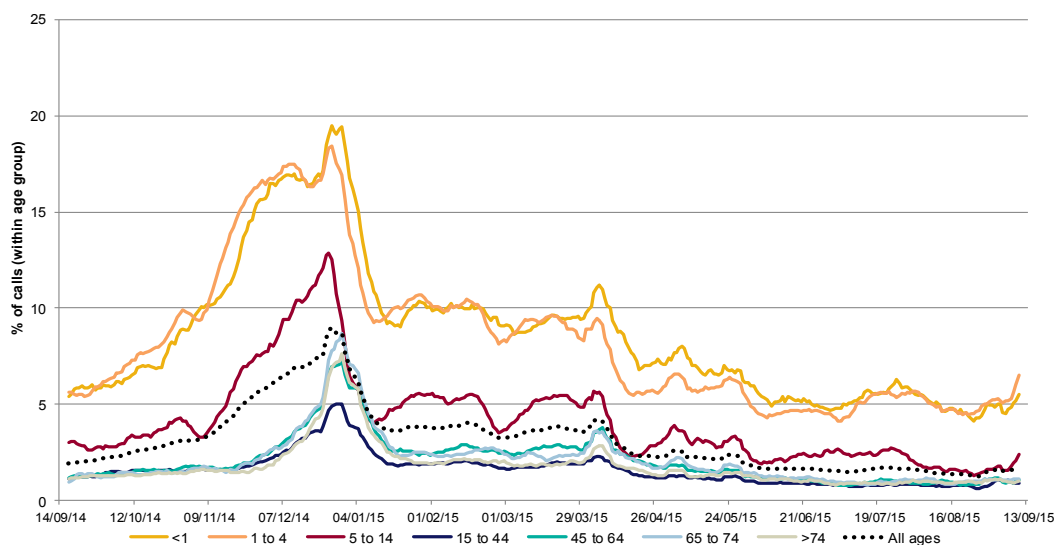
4: Cough

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.



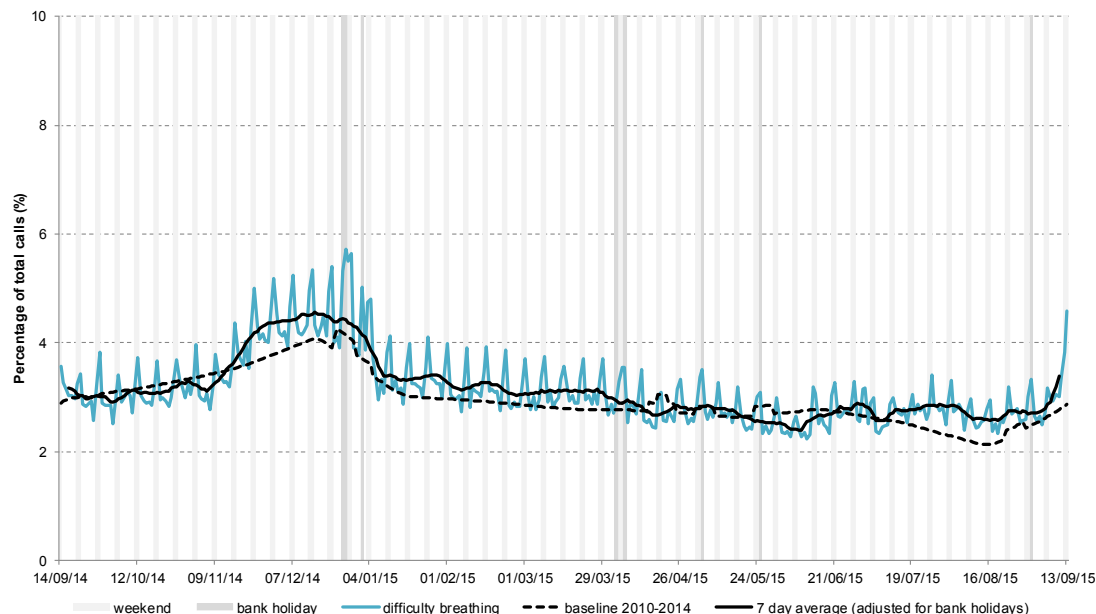
4a: Cough calls by age group

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



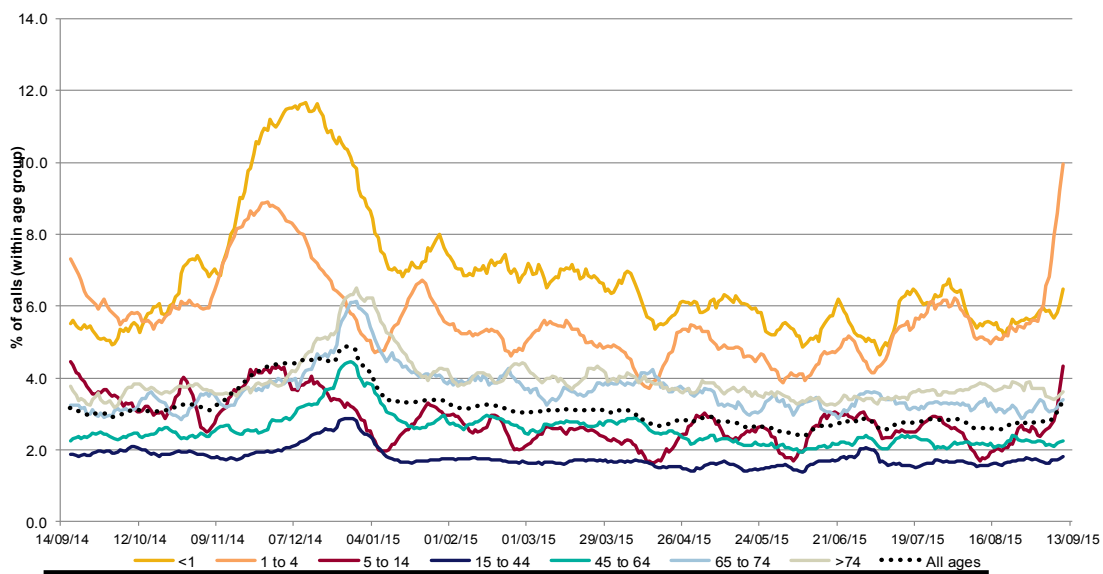
5: Difficulty breathing

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.

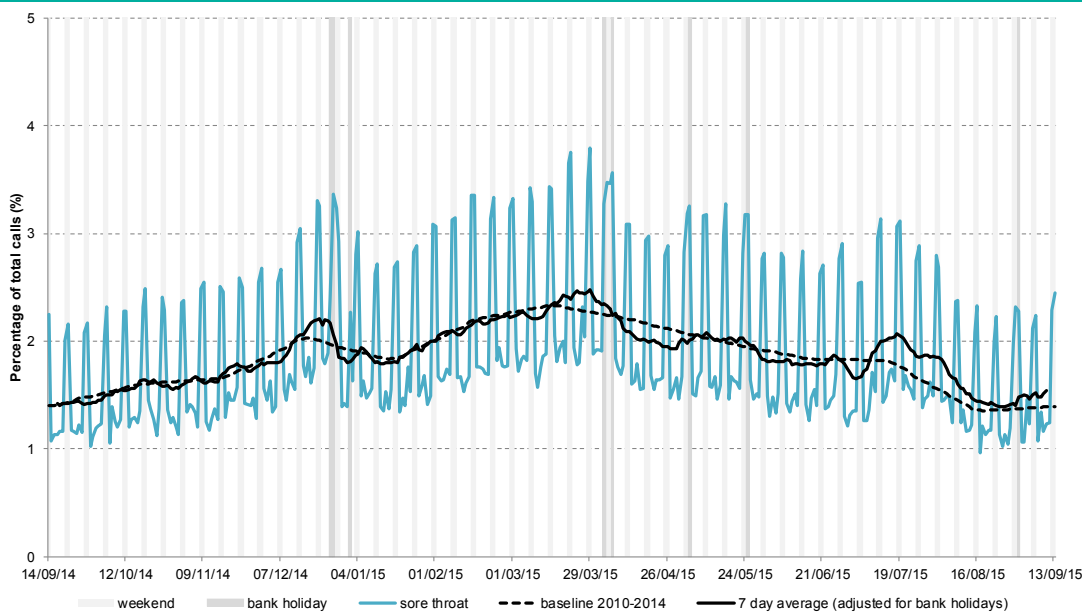


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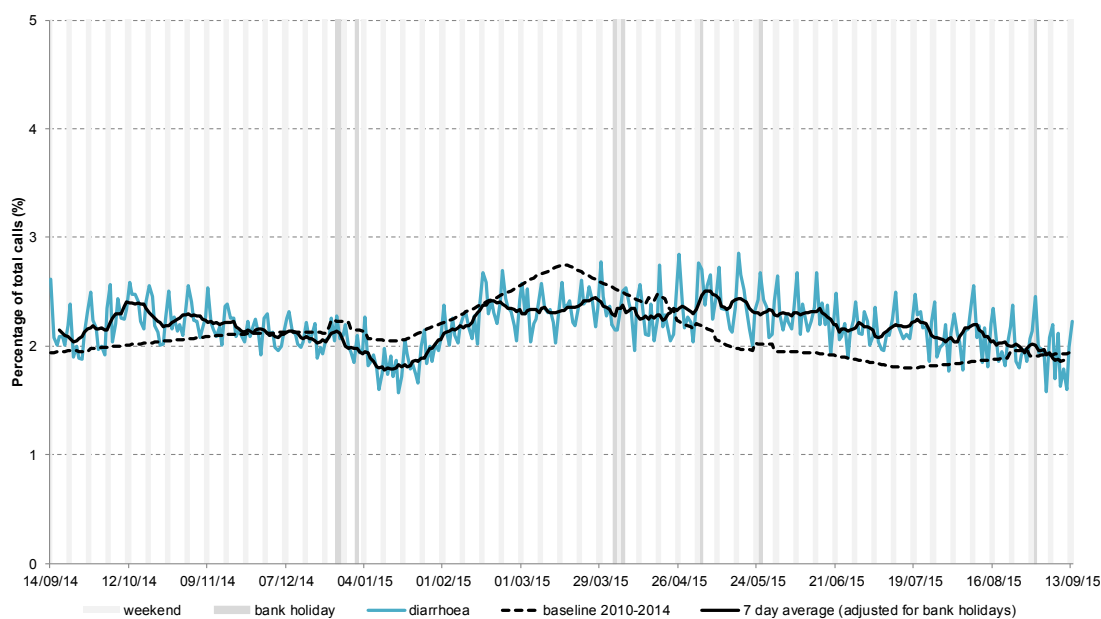
6: Sore throat

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.



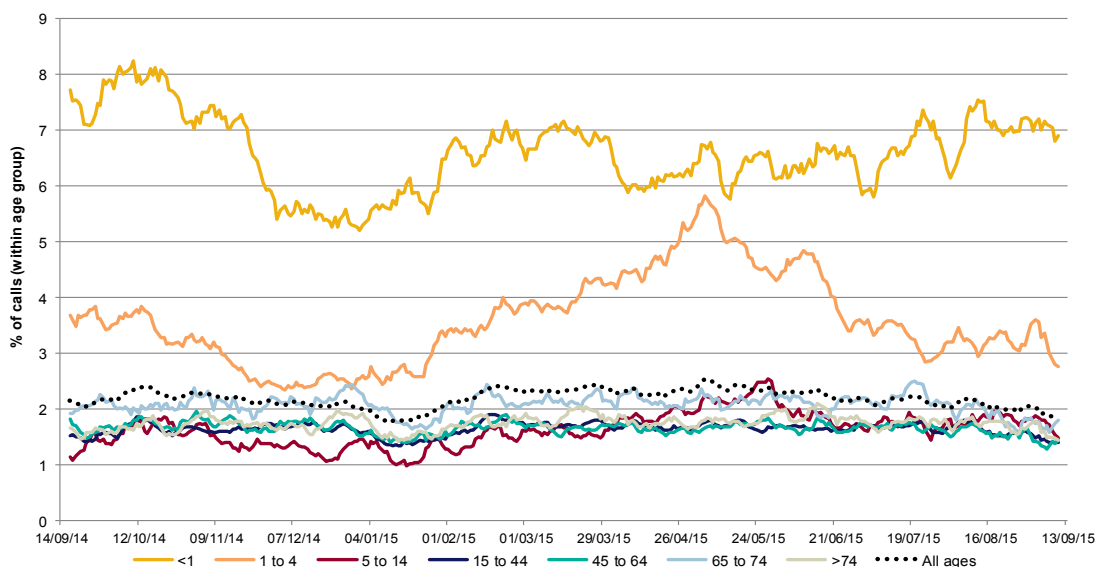
7: Diarrhoea

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.



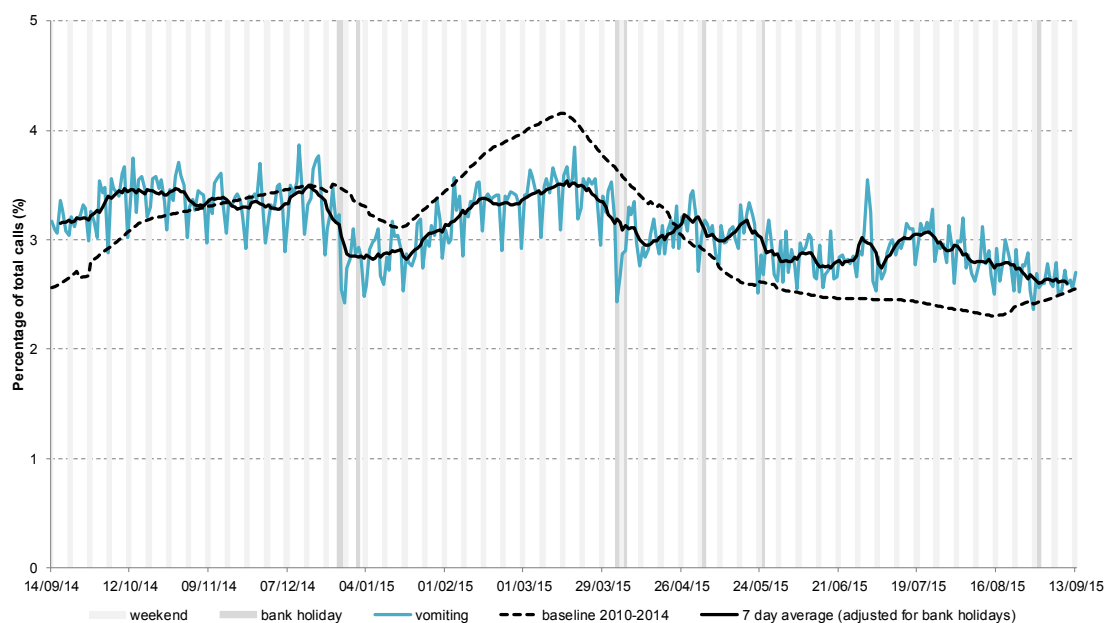
7a: Diarrhoea by age group

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



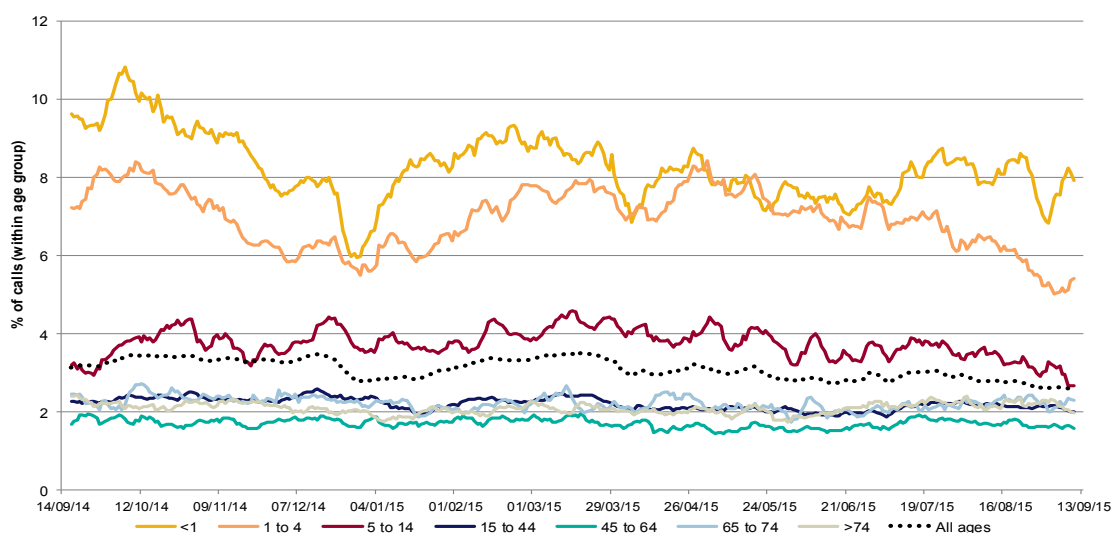
8: Vomiting

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.



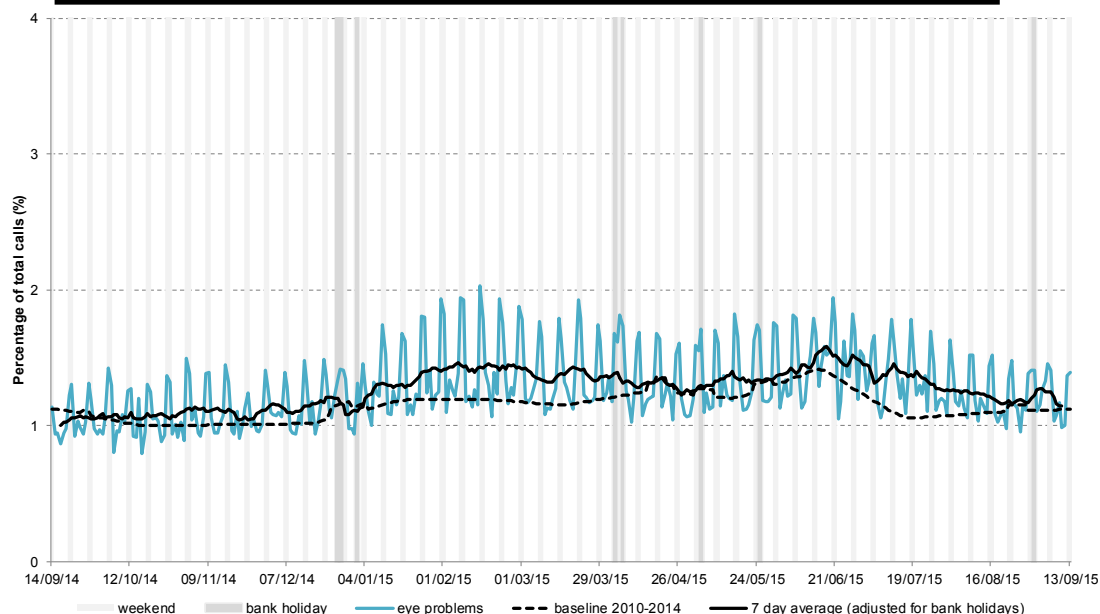
8a: Vomiting by age group

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



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.



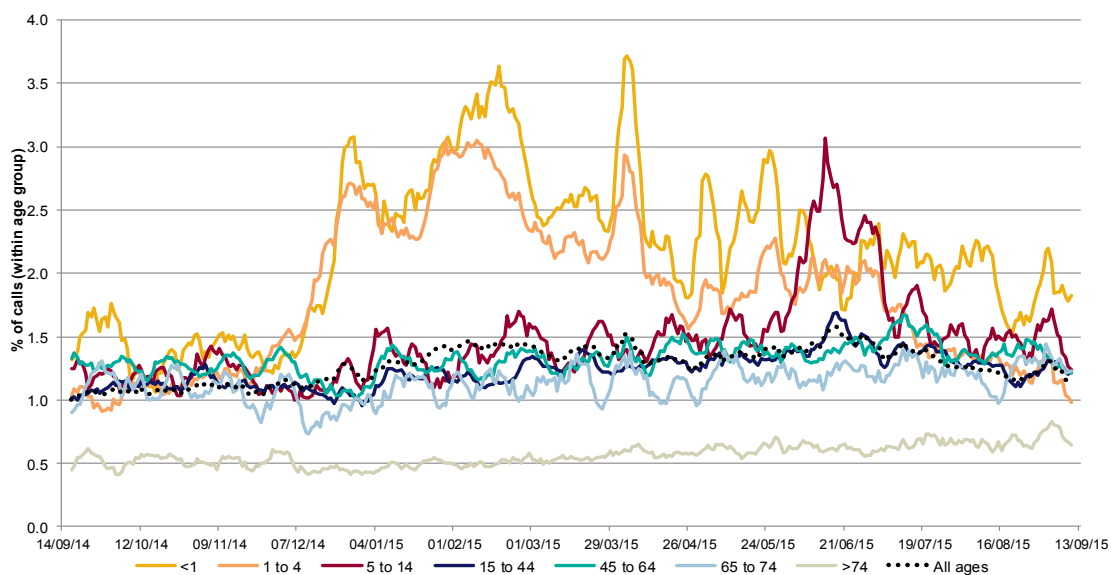
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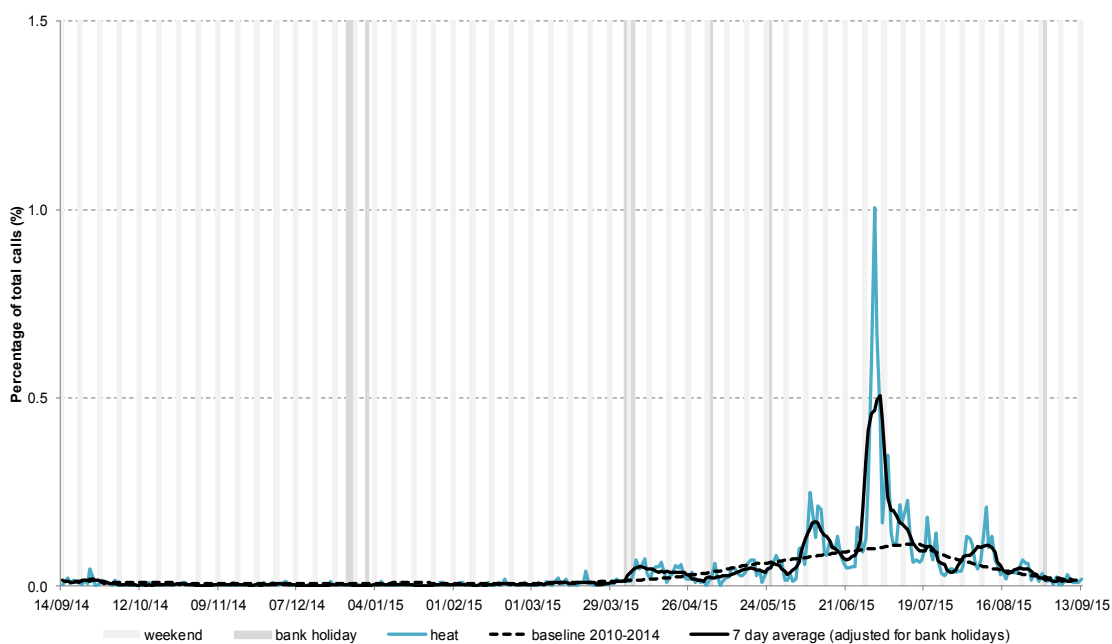
9a: Eye Problems by age group

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



10: Heat stroke

Daily heat stroke 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 are constructed using historical data, including data from both NHS111 and the NHS Direct syndromic system (which was replaced by NHS 111 data in September 2013). Seasonal trends reflect the average over past years, with levels adjusted to reflect differences between NHS 111 and NHS Direct data.
- 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 HSCIC 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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