Remote Health Advice
Syndromic Surveillance System: England

13 June 2017

Key messages

Eye problem calls continued to increase in week 23 most notably in the 5-14 years age group, in line with seasonal grass pollen activity (figures 9 and 9a).

Syndromic indicators at a glance:

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Trend</th>
<th>Level *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold/flu</td>
<td>decreasing</td>
<td>below baseline levels</td>
</tr>
<tr>
<td>Fever</td>
<td>decreasing</td>
<td>below baseline levels</td>
</tr>
<tr>
<td>Cough</td>
<td>decreasing</td>
<td>below baseline levels</td>
</tr>
<tr>
<td>Difficulty breathing</td>
<td>decreasing</td>
<td>below baseline levels</td>
</tr>
<tr>
<td>Sore throat</td>
<td>no trend</td>
<td>similar to baseline levels</td>
</tr>
<tr>
<td>Diarrhoea</td>
<td>decreasing</td>
<td>below baseline levels</td>
</tr>
<tr>
<td>Vomiting</td>
<td>decreasing</td>
<td>below baseline levels</td>
</tr>
<tr>
<td>Eye problems</td>
<td>increasing</td>
<td>similar to baseline levels</td>
</tr>
<tr>
<td>Heat/sun stroke</td>
<td>decreasing</td>
<td>similar to baseline levels</td>
</tr>
<tr>
<td>Insect bites</td>
<td>decreasing</td>
<td>similar to baseline levels</td>
</tr>
</tbody>
</table>

*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:

<table>
<thead>
<tr>
<th>Year</th>
<th>Week</th>
<th>Total calls</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017</td>
<td>23</td>
<td>209,144</td>
</tr>
</tbody>
</table>
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.

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.

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.

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.

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.
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 adjusted for bank holidays.

10. Heat/sun stroke
Daily 'heat/sun stroke' calls as a percentage of total calls. Baselines are constructed from historical data since 2010, including data from NHS 111 and NHS Direct.

10a: Heat/sun stroke by age group
Heat/sun stroke calls as a percentage of total calls within each age group, shown as a 7 day moving average adjusted for bank holidays.
**11: Insect bites**

Daily ‘insect bites’ calls as a percentage of total calls. Baselines are constructed from historical data since 2010, including data from NHS 111 and NHS Direct.

![Percentage of total calls (%)](chart)

**11a: Insect bites by age group**

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

![Percentage of calls (within age group)](chart)

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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.
- 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.

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:


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.