

GP In Hours

Data to: 18 August 2019

Syndromic Surveillance System: England

21 August 2019

Year: 2019 Week: 33

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Key messages

Nothing new to report in week 33.

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 data during this period.

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

Diagnostic indicators at a glance:

Indicator	Trend	Level
Upper respiratory tract infection	no trend	similar to baseline levels
Influenza-like illness	no trend	pre-epidemic threshold*
Pharyngitis	decreasing	below baseline levels
Scarlet fever	no trend	similar to baseline levels
Lower respiratory tract infection	no trend	similar to baseline levels
Pneumonia	no trend	below baseline levels
Gastroenteritis	no trend	below baseline levels
Vomiting	no trend	below baseline levels
Diarrhoea	no trend	below baseline levels
Asthma	no trend	above baseline levels
Conjunctivitis	decreasing	below baseline levels
Mumps	decreasing	above baseline levels
Measles	no trend	similar to baseline levels
Rubella	no trend	similar to baseline levels
Pertussis	no trend	above baseline levels
Chickenpox	decreasing	below baseline levels
Herpes zoster	no trend	below baseline levels
Cellulitis	decreasing	below baseline levels
Impetigo	no trend	below baseline levels
Allergic rhinitis	decreasing	similar to baseline levels
Heat/sunstroke	no trend	similar to baseline levels below baseline levels
Insect Bites	decreasing	

^{*} Moving Epidemic Method (MEM) influenza activity threshold (see notes)

GP practices and denominator population:

Year	Week	GP Practices Reporting**	Population size**
2019	33	2,756	24.1 million

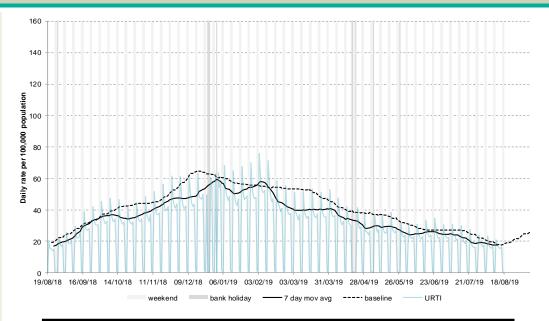
^{**}based on the average number of practices and denominator population in the reporting working week.

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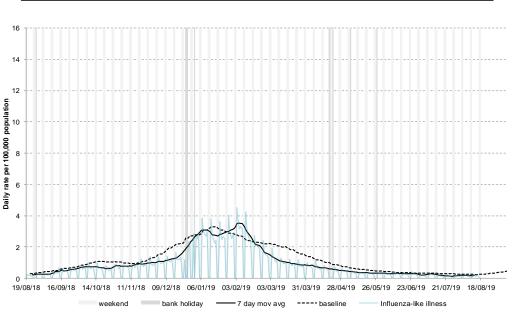
1: Upper respiratory tract infection.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).



2: Influenza-like illness (ILI).

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).



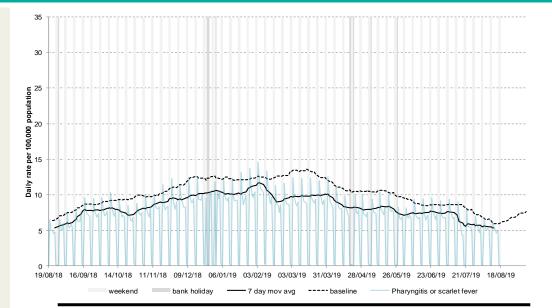
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^{* 7-}day moving average adjusted for bank holidays.



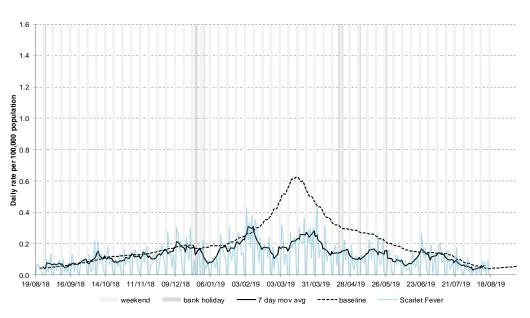
3: Pharyngitis or scarlet fever.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).



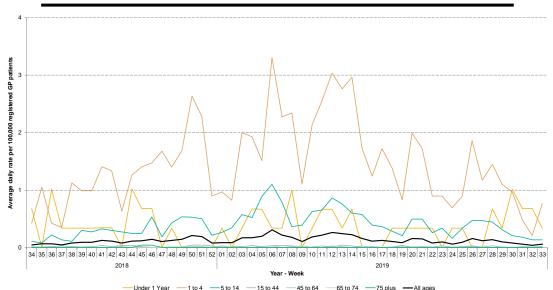
4: Scarlet fever.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, based on a denominator population of approximately 5.5 million patients)



4a: Scarlet fever by age.

Average daily incidence rate by week per 100,000 population (all England, based on a denominator population of approximately 5.5 million patients).

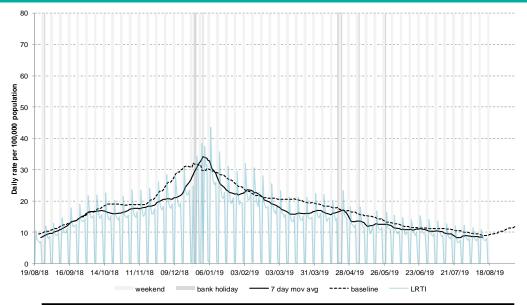


^{* 7-}day moving average adjusted for bank holidays.



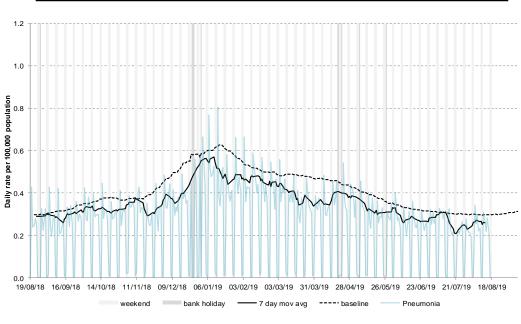
5: Lower respiratory tract infection (LRTI).

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).



6: Pneumonia.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).



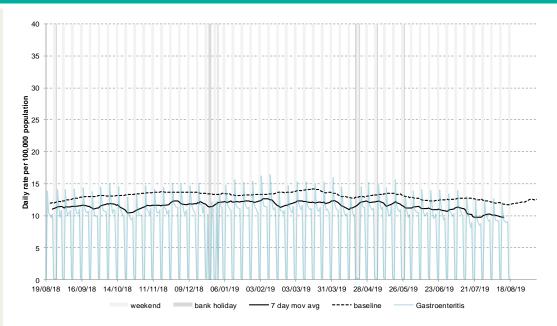
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^{* 7-}day moving average adjusted for bank holidays.



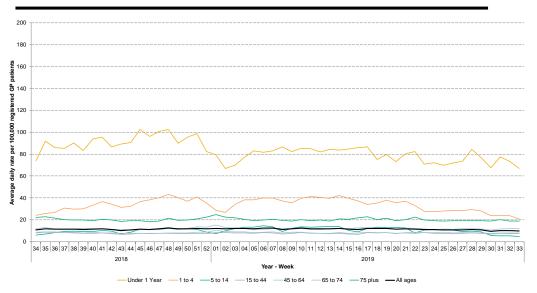
7: Gastroenteritis.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).

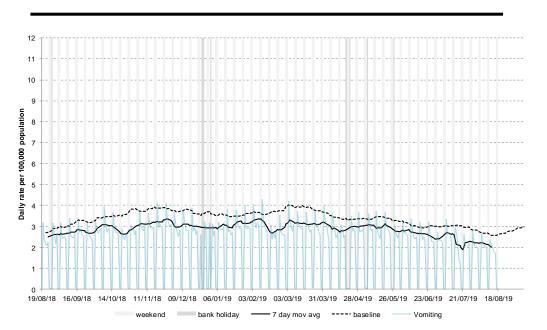


7a: Gastroenteritis by age.

Average daily incidence rate by week per 100,000 population (all England).



8: Vomiting.

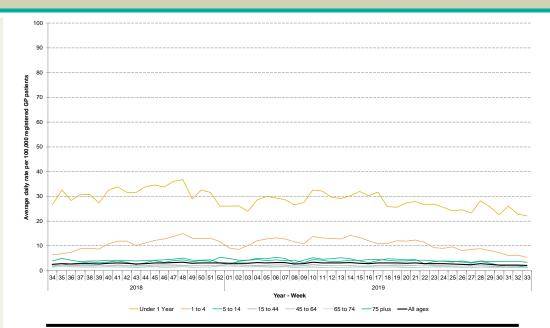


^{* 7-}day moving average adjusted for bank holidays.



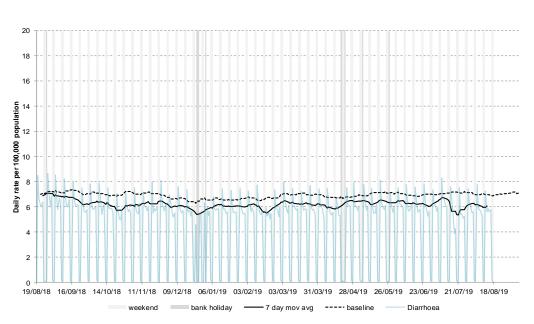
8a: Vomiting by age.

Average daily incidence rate by week per 100,000 population (all England).



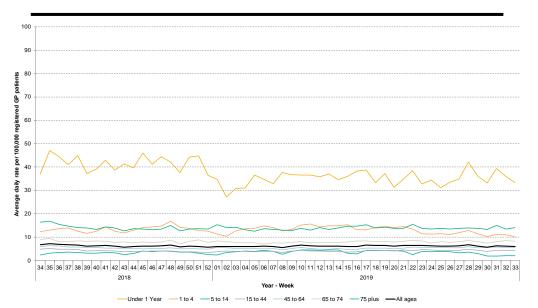
9: Diarrhoea.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).



9a. Diarrhoea by age.

Average daily incidence rate by week per 100,000 population (all England).

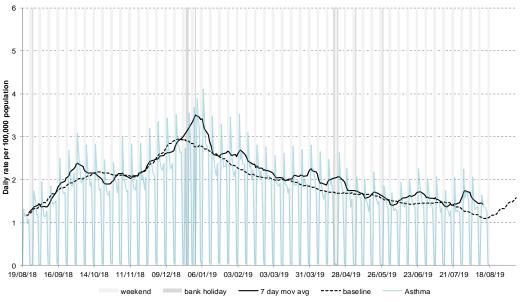


^{* 7-}day moving average adjusted for bank holidays.



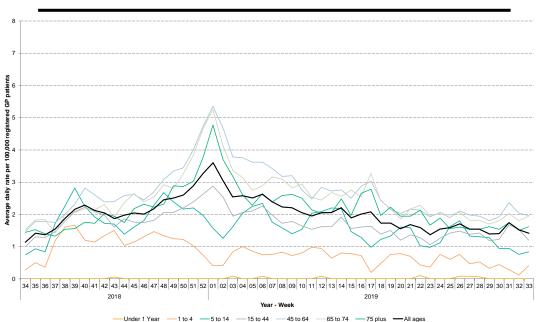
10: Asthma.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).

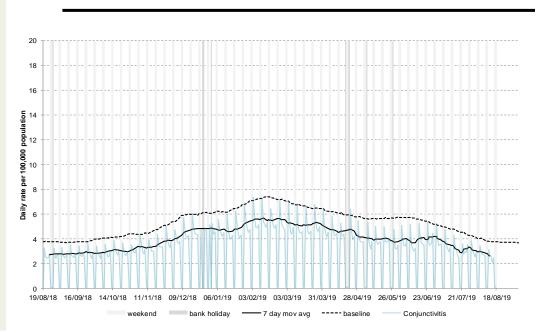


10a: Asthma by age.

Average daily incidence rate by week per 100,000 population (all England).



11: Conjunctivitis.

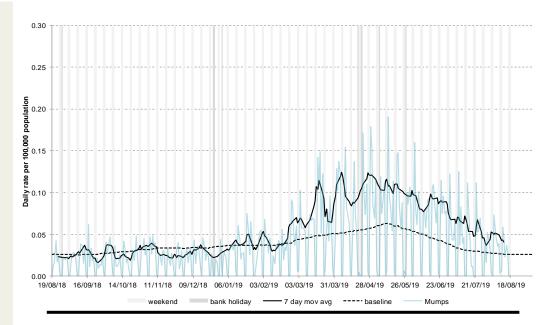


^{* 7-}day moving average adjusted for bank holidays.



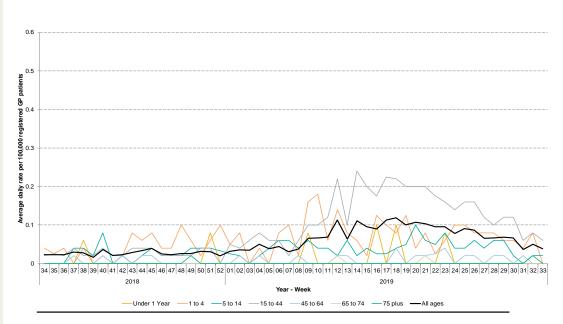
12: Mumps.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).



12a: Mumps by age.

Average daily incidence rate by week per 100,000 population (all England).



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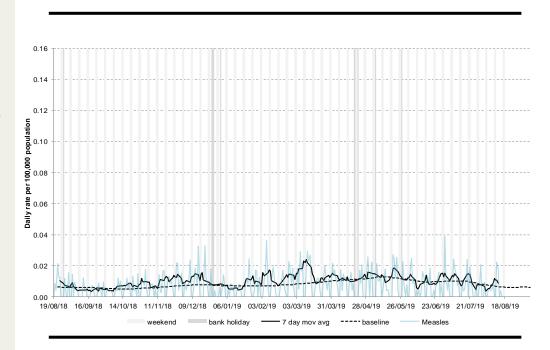
^{* 7-}day moving average adjusted for bank holidays.



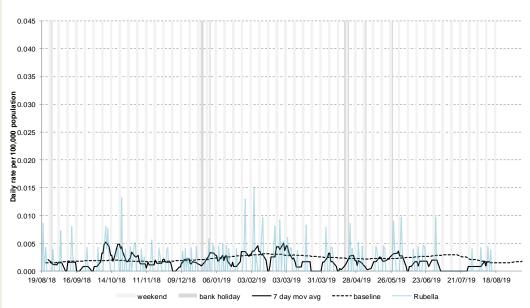
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13: Measles.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).



14: Rubella.

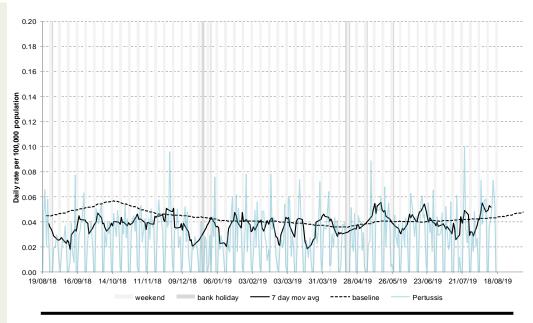


^{* 7-}day moving average adjusted for bank holidays.



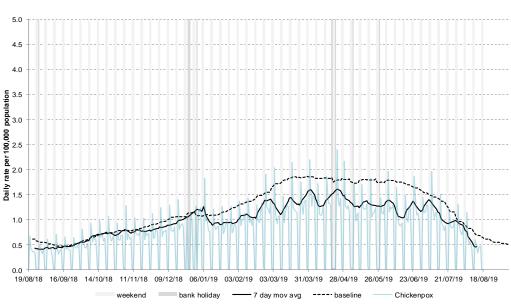
15: Pertussis.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).

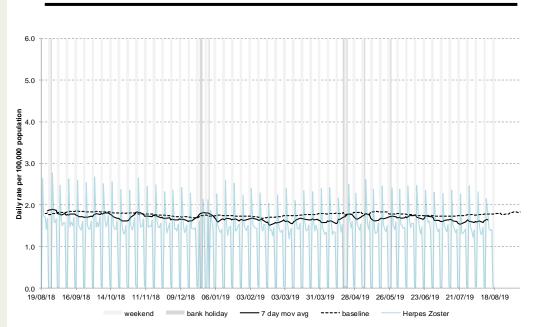


16: Chickenpox.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).



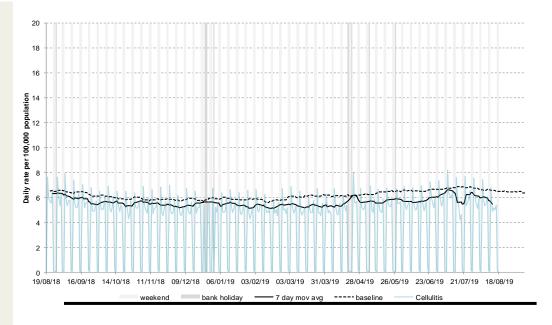
17: Herpes zoster.





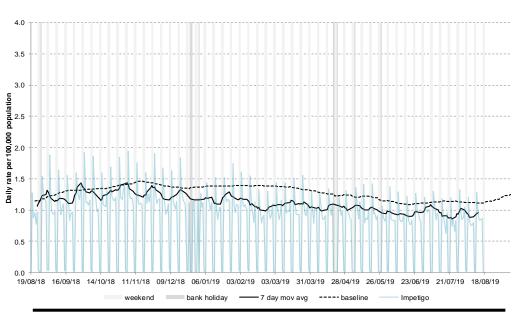
18: Cellulitis.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).

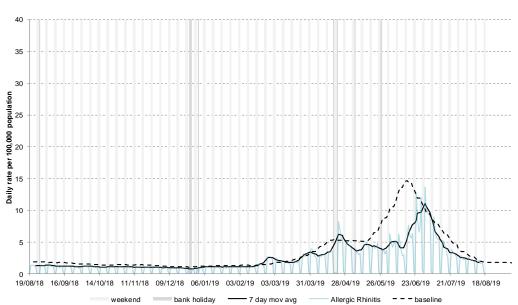


19: Impetigo.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).



20: Allergic rhinitis.



^{* 7-}day moving average adjusted for bank holidays.

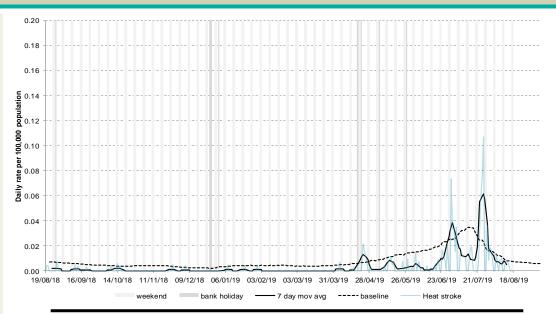


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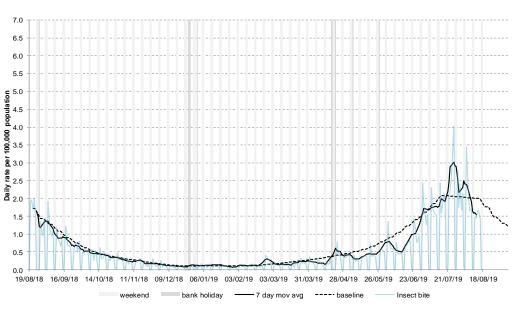
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21: Heat/sunstroke.

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).



22: Insect bites.



^{* 7-}day moving average adjusted for bank holidays.



Notes and further information:

- The Public Health England GP in hours surveillance system is a syndromic surveillance system monitoring community-based morbidity recorded by GP practices.
- GP consultation 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.
- This system captures anonymised GP morbidity data from two GP clinical software systems, EMIS, from version 1 of the QSurveillance® database, and TPP SystmOne.
- Baselines represent seasonally expected levels of activity and are constructed from
 historical data since April 2012. They take into account any known substantial changes in
 data collection, population coverage or reporting practices. Gastroenteritis, diarrhoea and
 vomiting baselines also account for changes since the introduction of rotavirus vaccine in
 July 2013. Baselines are refreshed using the latest data on a regular basis.

Moving Epidemic Method:

- During winter 2018/19 we presented 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 GP ILI thresholds at a national level and at PHE Centre level and stratified by age band.
- MEM thresholds should be interpreted using 7 day moving averages rather than daily data.
- MEM thresholds currently use five years of historic data (2013-2018). The thresholds are re-calculated every year.
- '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.

Maps:

- From week 40 2018 the levels of influenza-like illness (ILI) rates are illustrated in the bulletin appendix maps. The ILI intensity levels are calculated using MEM.
- The current ILI thresholds are based upon previous influenza seasons from 2012/13 onwards and therefore illustrate activity levels in relation to previous ILI activity recorded in the GPIH system. IILI thresholds presented in the maps should be interpreted with caution and reference made to other GP surveillance systems incorporating more historical data, which are available in the PHE National Influenza Report.

https://www.gov.uk/government/statistics/weekly-national-flu-reports

 The ILI thresholds have been calculated separately for each of the nine PHE Centres to allow for differences between areas e.g. background ILI rates are historically higher in London than other areas of England.

Acknowledgements:

We thank and acknowledge the University of Nottingham, ClinRisk[®] and the contribution of EMIS and EMIS practices. Data source: version 1 of the QSurveillance® database.

We thank TPP, ResearchOne and the SystmOne GP practices contributing to this surveillance system.

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GP In Hours Syndromic Surveillance System Bulletin.

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Web: https://www.gov.uk/government/collections/syndromic-surveillance-systems-and-analyses