

GP In Hours

Syndromic Surveillance System: England

Data to: 25 December 2016

28 December 2016

Year: 2016 Week: 51

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Key messages

There were further small increases in GP consultations for respiratory infections, including influenza-like illness during week 51, however levels remain within seasonally expected limits (figure 2).

There was an increase in consultations for asthma during week 51, particularly in adults (figures 10 & 10a).

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 Winter Preparedness and Action

http://www.metoffice.gov.uk/weather/uk/coldweatheralert/

Diagnostic indicators at a glance:

Indicator	Trend	Level
Upper respiratory tract infection	increasing	below baseline levels
Influenza-like illness	increasing	below baseline levels
Pharyngitis	increasing	below baseline levels
Scarlet fever	no trend	similar to baseline levels
Lower respiratory tract infection	increasing	similar to baseline levels
Pneumonia	increasing	above baseline levels
Gastroenteritis	decreasing	similar to baseline levels
Vomiting	decreasing	similar to baseline levels
Diarrhoea	decreasing	below baseline levels
Severe asthma	increasing	above baseline levels
Wheeze	no trend	above baseline levels
Conjunctivitis	increasing	below baseline levels
Mumps	no trend	below baseline levels
Measles	no trend	similar to baseline levels
Rubella	no trend	similar to baseline levels
Pertussis	no trend	above baseline levels
Chickenpox	increasing	similar to baseline levels
Herpes zoster	no trend	similar to baseline levels
Cellulitis	no trend	similar to baseline levels
Impetigo	no trend	below baseline levels

GP practices and denominator population:

Year	Week	GP Practices Reporting**	Population size**
2016	51	4125	32.5 million

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



¹⁸ December 2016 Year: 2016 Week: 5⁷

1: Upper respiratory tract infection (URTI)

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

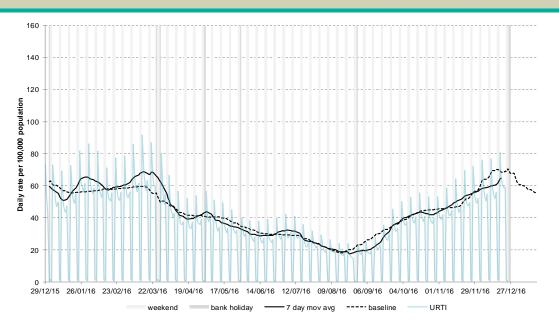
1a: Upper respiratory tract infection by age

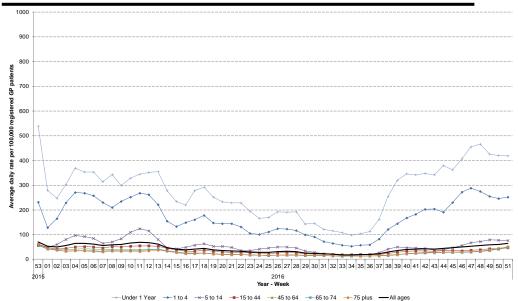
Average daily incidence rate by week per 100,000 population (all England).

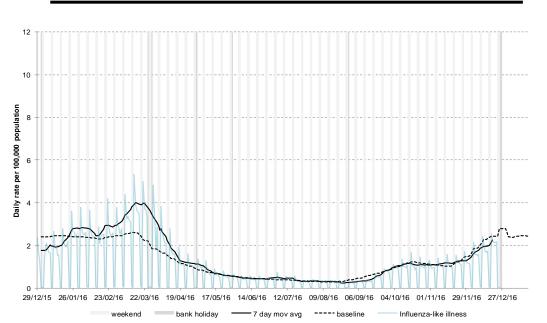
2: Influenza-like illness (ILI)

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

* 7-day moving average adjusted for bank holidays.







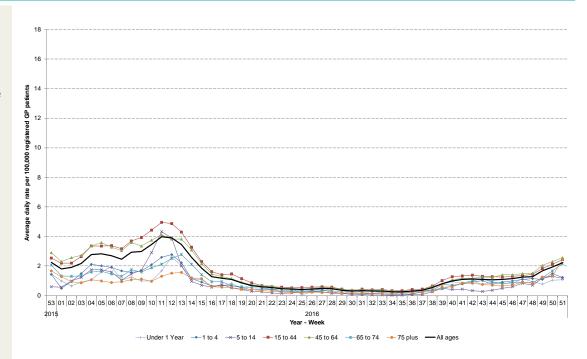




28 December 2016 Year: 2016 Week: 5⁷

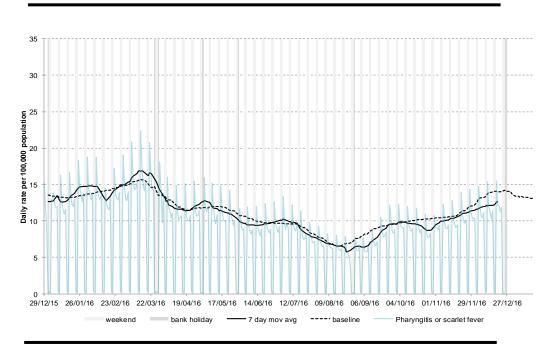
2a: Influenza-like illness (ILI) by age

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



3: Pharyngitis or scarlet fever

Daily incidence rates (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.



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4: Scarlet fever

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

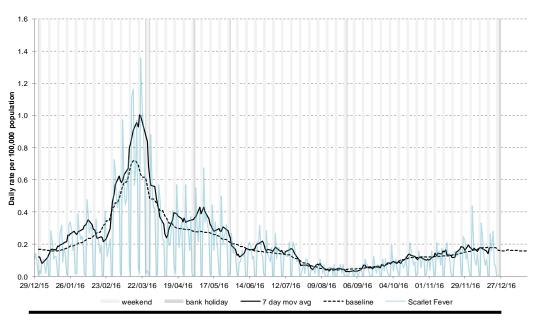
4a: Scarlet fever by age

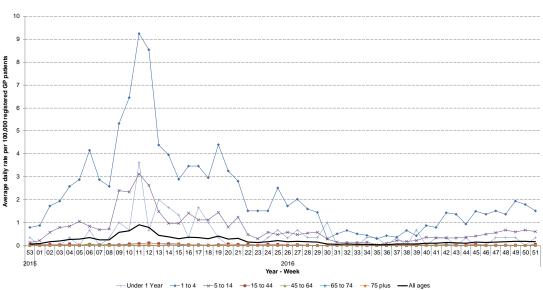
Average daily incidence rate by week per 100,000 population (all England) based on a population denominator of approximately 5.5 million patients).

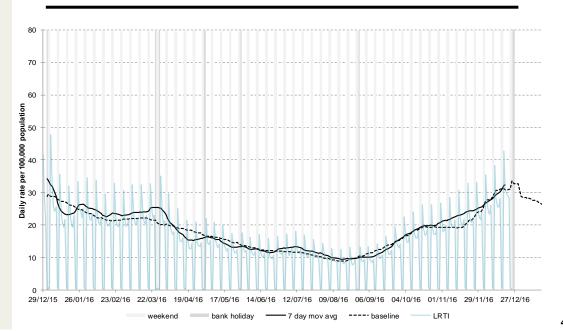
5: Lower respiratory tract infection (LRTI)

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

* 7-day moving average adjusted for bank holidays.





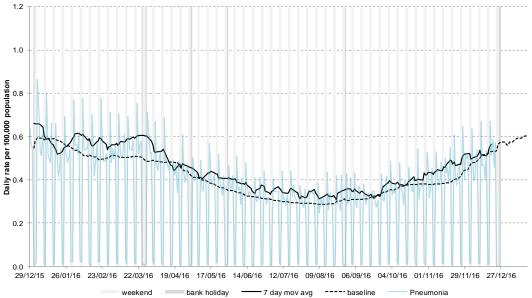






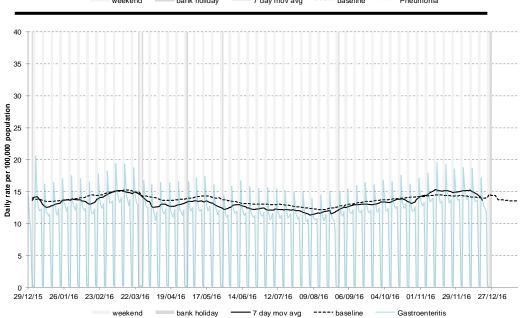
6: Pneumonia

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



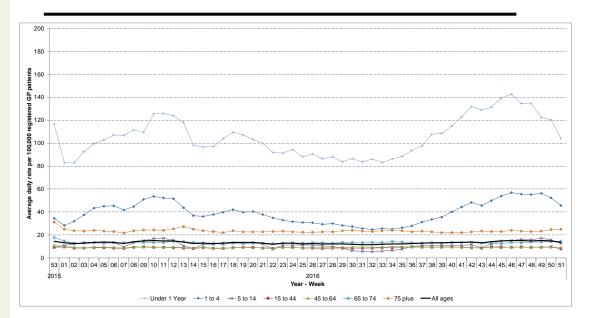
7: Gastroenteritis

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



7a: Gastroenterits by age

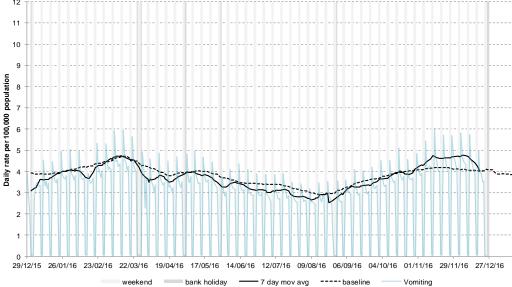
Average daily incidence rate by week per 100,000 population (all England).



* 7-day moving average adjusted for bank holidays.

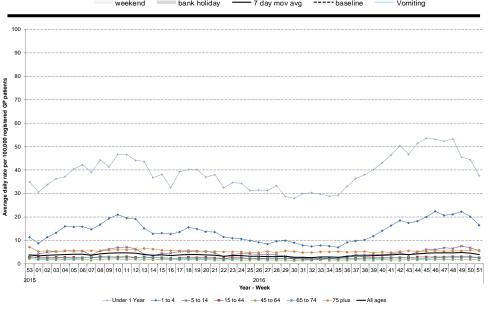
8: Vomiting

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



8a: Vomiting by age

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

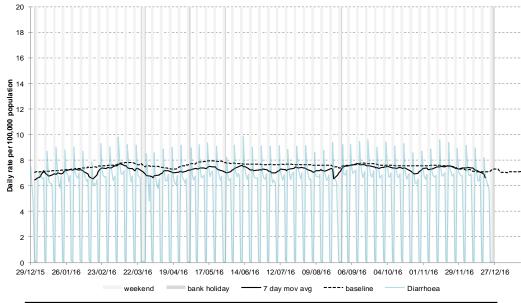


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^{* 7-}day moving average adjusted for bank holidays.

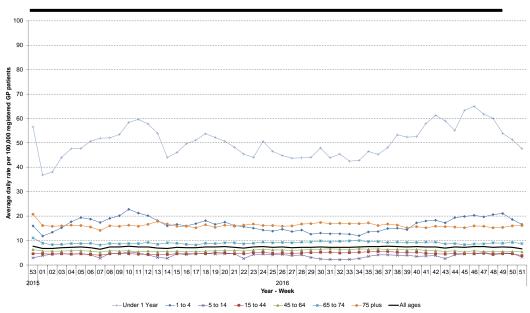
9: Diarrhoea

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).



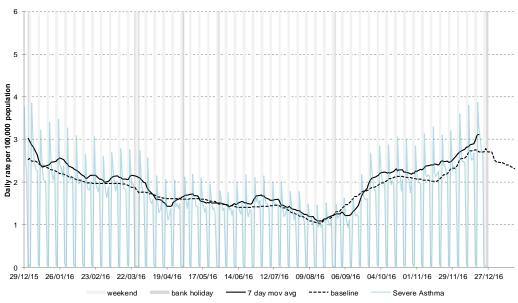
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^{* 7-}day moving average adjusted for bank holidays.



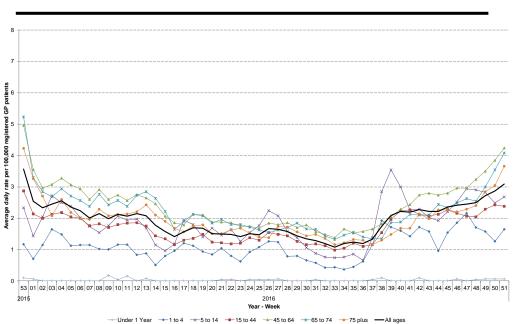
10: Severe asthma

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

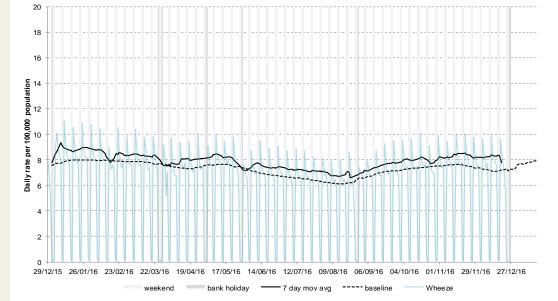


10a: Severe asthma by age

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



11: Wheeze

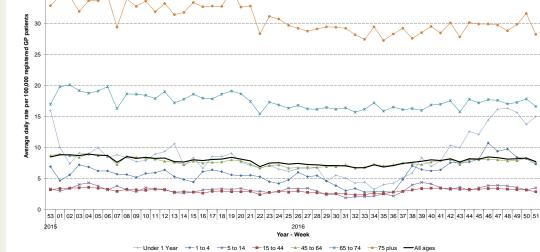


^{* 7-}day moving average adjusted for bank holidays.



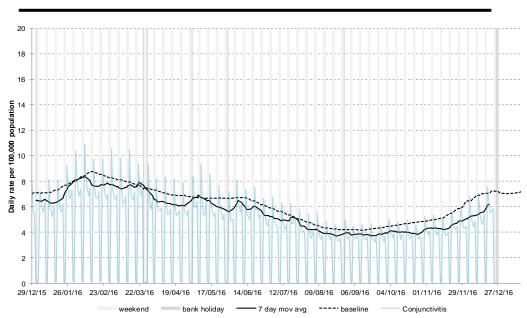
11a: Wheeze by age

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

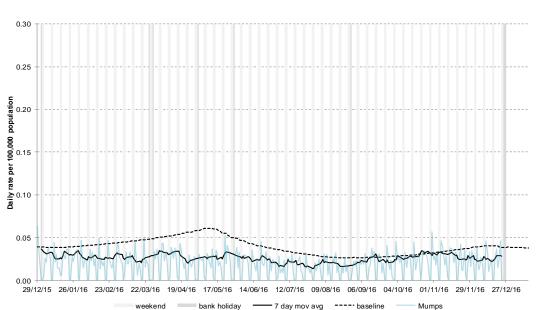


12: Conjunctivitis

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



13: Mumps

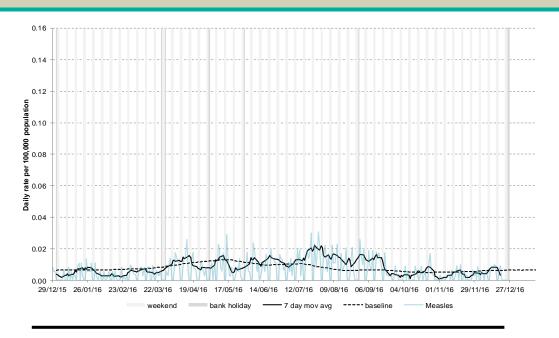


^{* 7-}day moving average adjusted for bank holidays.



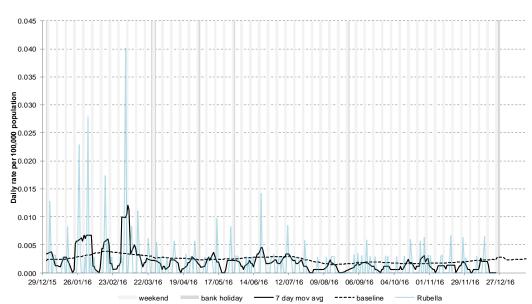
14: Measles

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



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15: Rubella



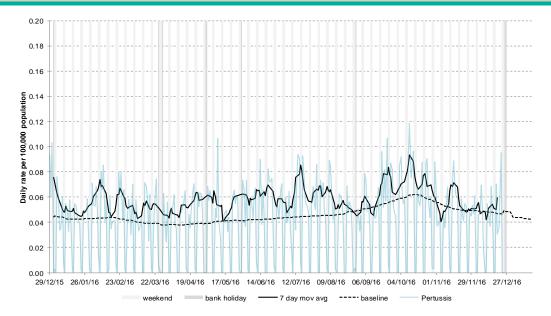
^{* 7-}day moving average adjusted for bank holidays.



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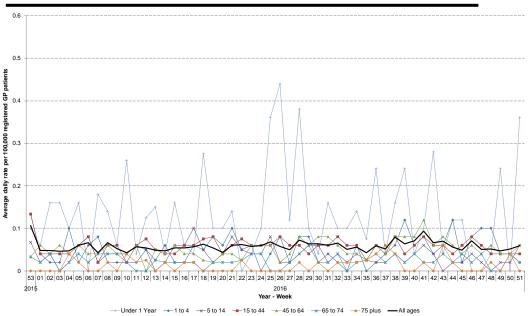
16: Pertussis

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

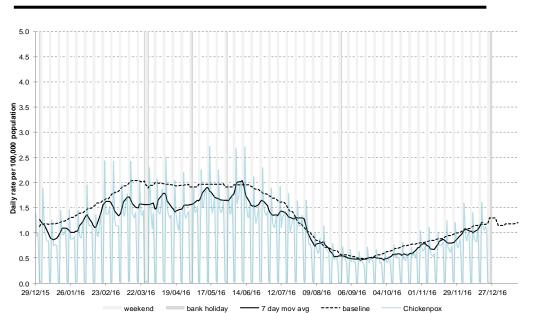


16a: Pertussis by age

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



17: Chickenpox

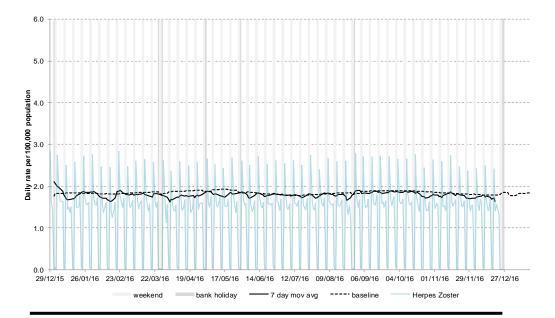


^{* 7-}day moving average adjusted for bank holidays.



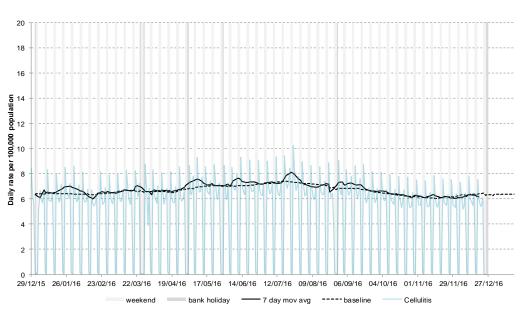
18: Herpes zoster

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

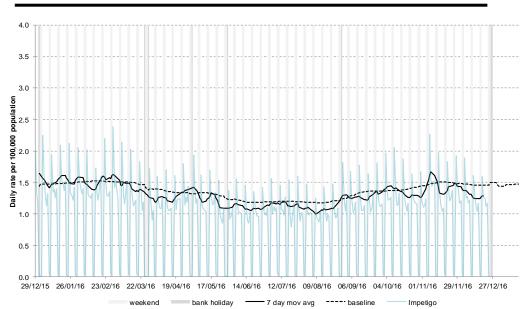


19: Cellulitis

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



20: Impetigo



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



28 December 2016

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. 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.

Maps:

- From week 40 2015 the influenza-like illness thresholds illustrated in the bulletin. appendix maps are calculated using the "Moving Epidemic Method" (MEM). 1 MEM is used as a standard methodology for setting influenza surveillance thresholds across Europe.2
- The ILI thresholds have been calculated separately for each of the nine PHE Centres to allow for structural differences between areas e.g. background rates are historically higher in London than other areas of England.
- The current ILI thresholds are based on six previous influenza seasons (excluding the 2009/10 H1N1 pandemic). In future, thresholds will be recalculated each year incorporating the latest season's data.
- The maps on the following pages contains Ordnance Survey data © Crown copyright and database right 2014. Contains National Statistics data © Crown copyright and database right 2014.

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.

GP In Hours Syndromic Surveillance System Bulletin.

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Contact ReSST: syndromic.surveillance @phe.gov.uk

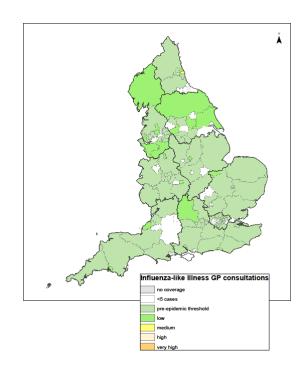
¹ Vega T et al. Influenza Other Respir Viruses. 2013;**7**(4):546-58.

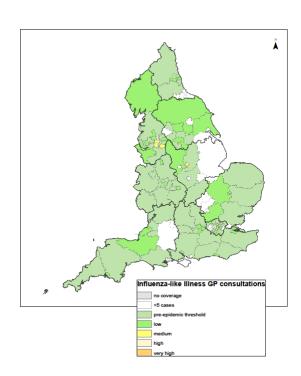
² Green HK et al. *Epidemiol Infect.* 2015;**143**(1):1-12.

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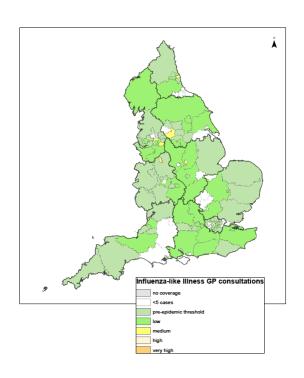
England

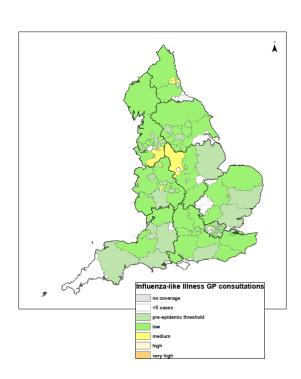
Influenzalike illness GP consultations by LA (England) Week 48 Week 49





Week 50 Week 51



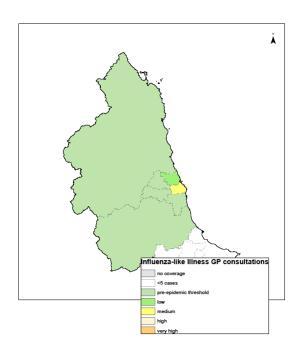


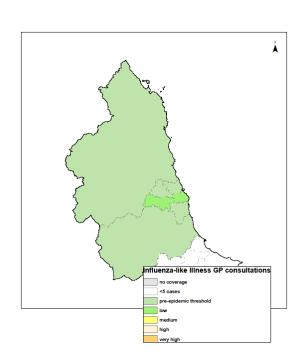
28 December 2016 Year: 2016 Week: 5^r

North East

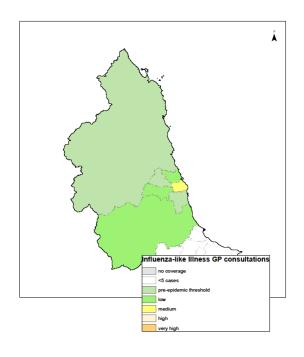
Influenzalike illness GP consultations by LA (North East PHE Centre)

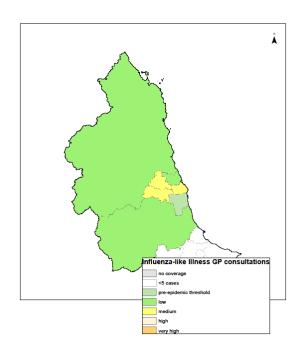
Week 48 Week 49





Week 50 Week 51



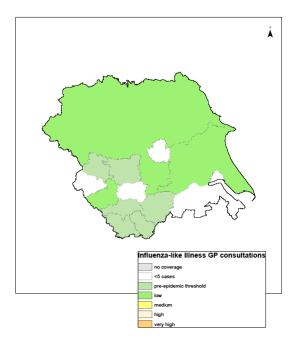


28 December 2016 Year: 2016 Week: 5^o

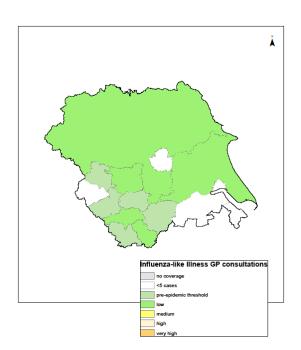
Yorkshire & Humber

Influenzalike illness GP consultations by LA (Yorkshire & Humber PHE Centre)

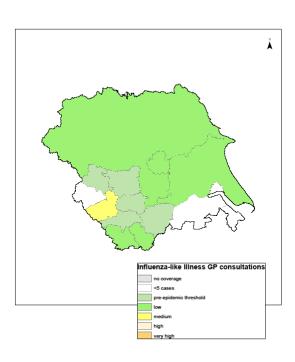
Week 48



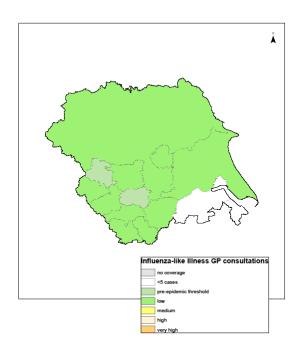
Week 49



Week 50



Week 51

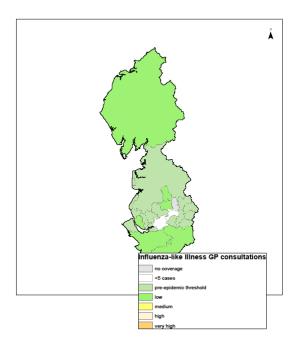


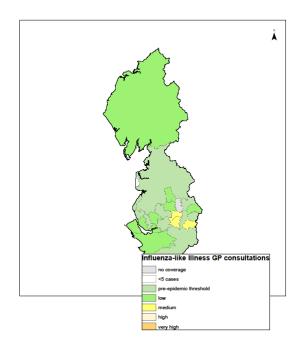
28 December 2016 Year: 2016 Week: 51

North West

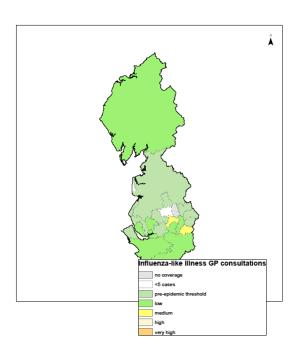
Week 48 Week 49

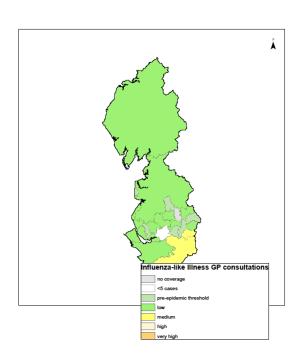
Influenzalike illness GP consultations by LA (North West PHE Centre)





Week 50 Week 51



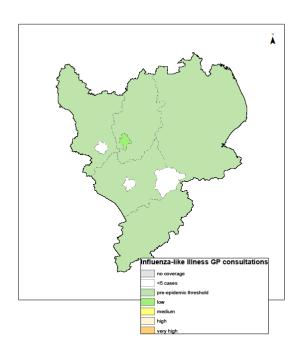


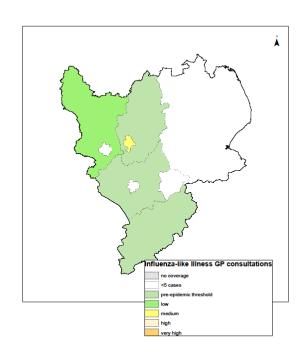
28 December 2016 Year: 2016 Week: 5^o

East Midlands

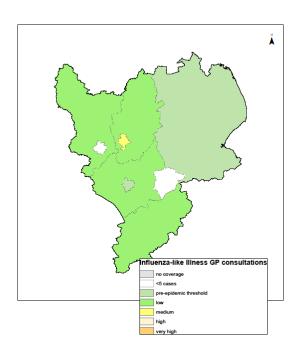
Influenzalike illness GP consultations by LA (East Midlands PHE Centre)

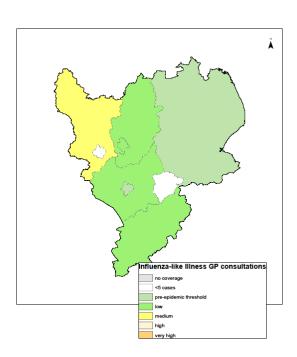
Week 49





Week 50 Week 51



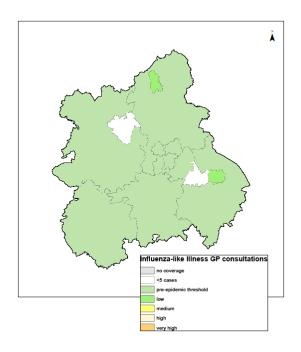


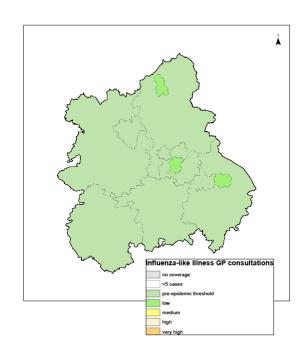
West **Midlands**

Week 48

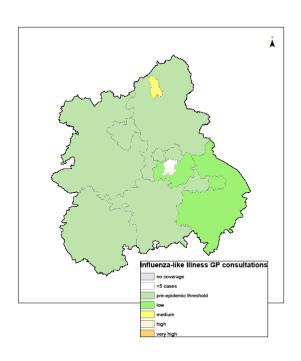
Week 49

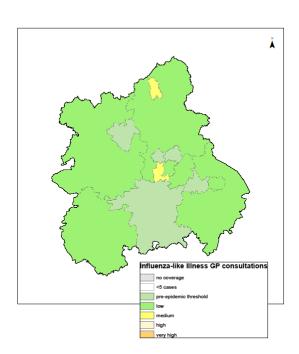
Influenzalike illness GP consultations by LA (West Midlands PHE Centre)





Week 50 Week 51





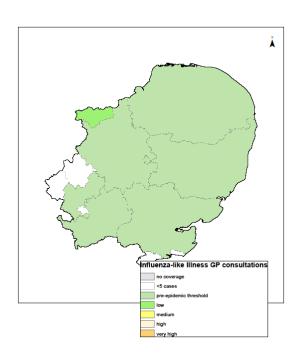
28 December 2016 Year: 2016 Week: 5^o

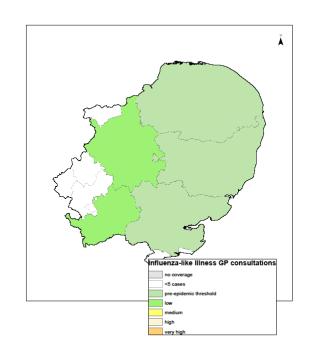
East of England

Influenzalike illness GP consultations by LA (East

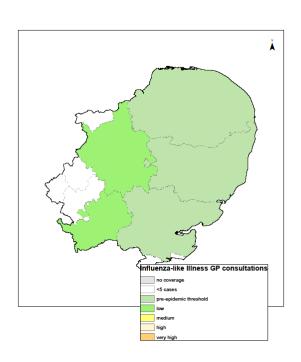
of England PHE Centre)

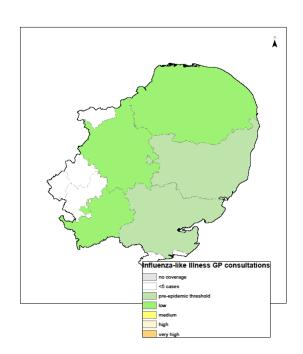






Week 50 Week 51





28 December 2016 Year: 2016 Week: 5^o

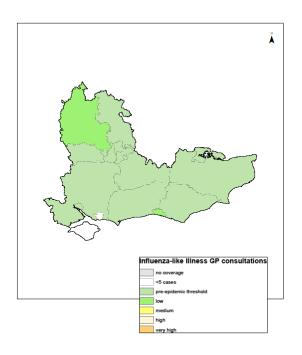
South East

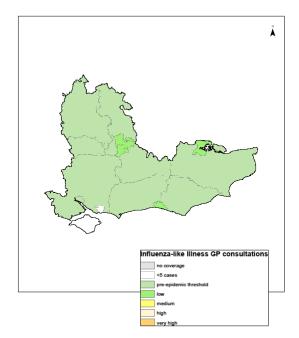
Week 48

Week 49

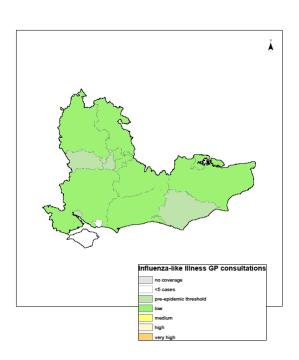
Week 51

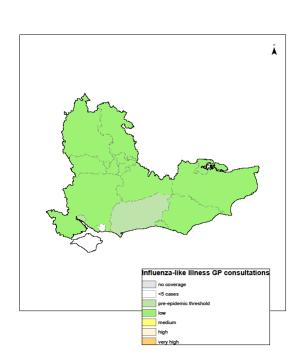
Influenzalike illness GP consultations by LA (South East PHE Centre)





Week 50





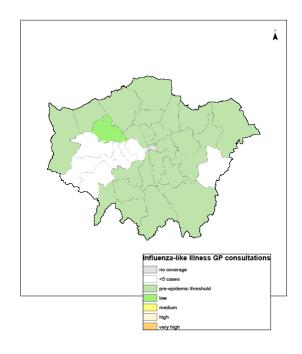
28 December 2016 Year: 2016 Week: 5^o

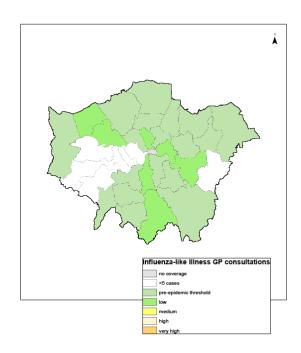
Week 49

London

Week 48

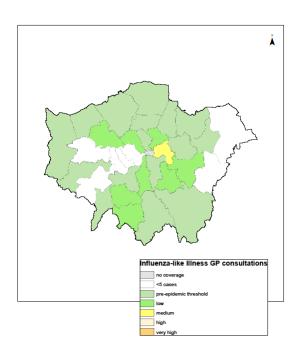
Influenzalike illness GP consultations by LA (London PHE Centre)

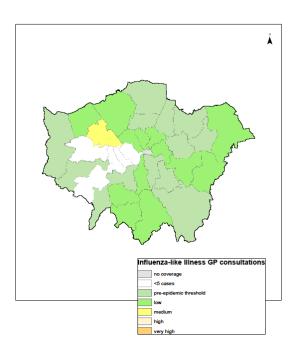




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Week 51





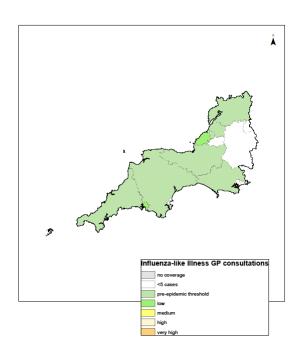
28 December 2016 Year: 2016 Week: 51

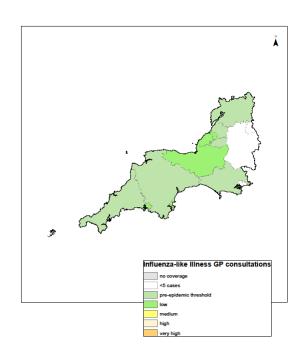
South West

Week 48

Week 49

Influenzalike illness GP consultations by LA (South West PHE Centre)





Week 50

Week 51

