Public Health England

GP In Hours

Syndromic Surveillance System: England

In This Issue:

Key messages

Data to: 09 April 2017

There were increases in allergic rhinitis during week 14, in line with seasonally expected levels (figure 21).

Diagnostic indicators at a glance:

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

GP practices and denominator population:

Year	Week	GP Practices Reporting**	Population size**
2017	14	3,082	23.9 million

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

11 April 2017

1: Upper respiratory tract infection (URTI)

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).
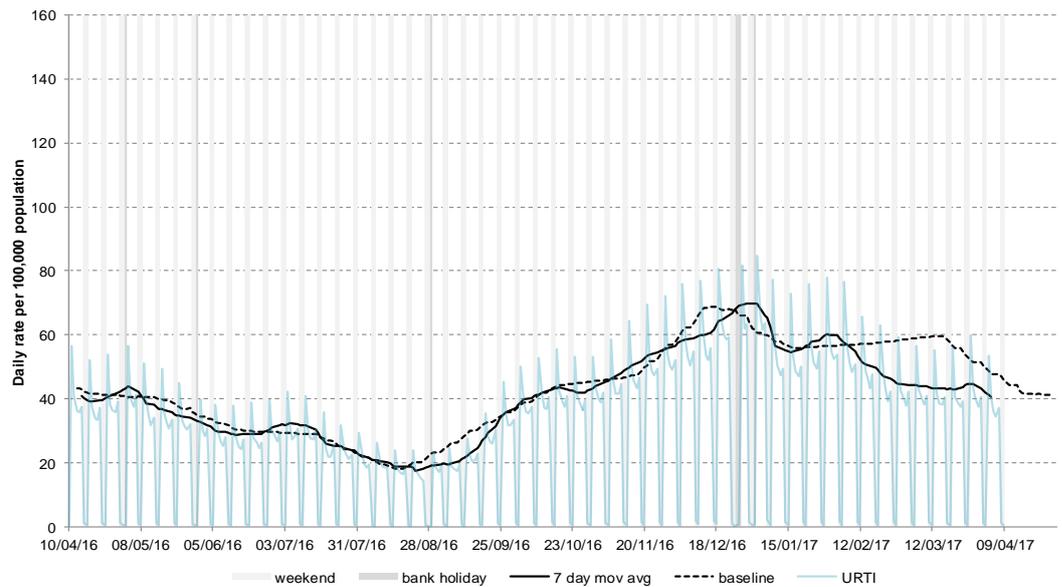
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2: Influenza-like illness (ILI)

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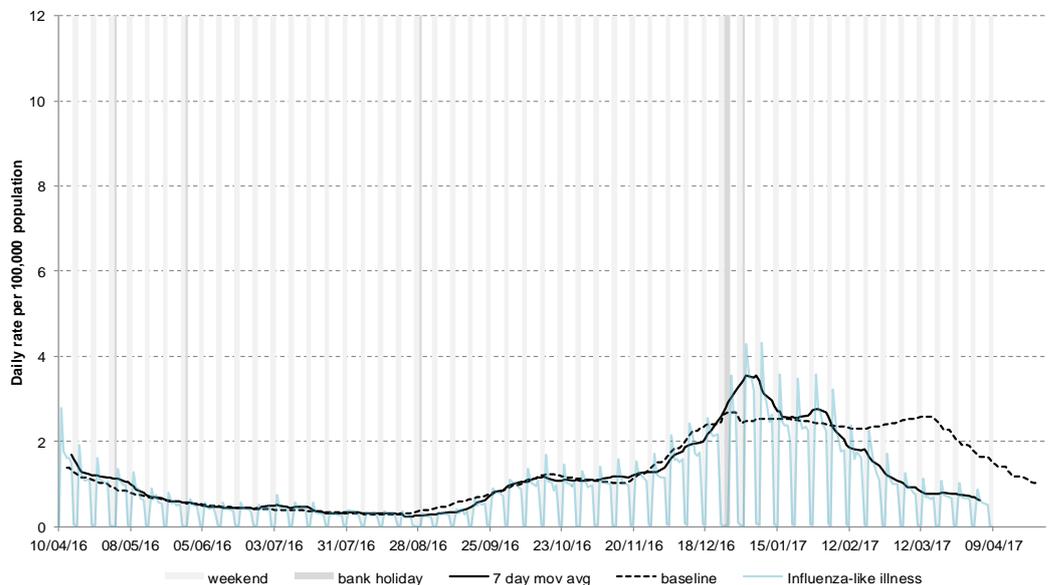

* 7-day moving average adjusted for bank holidays.

3: Pharyngitis or scarlet fever

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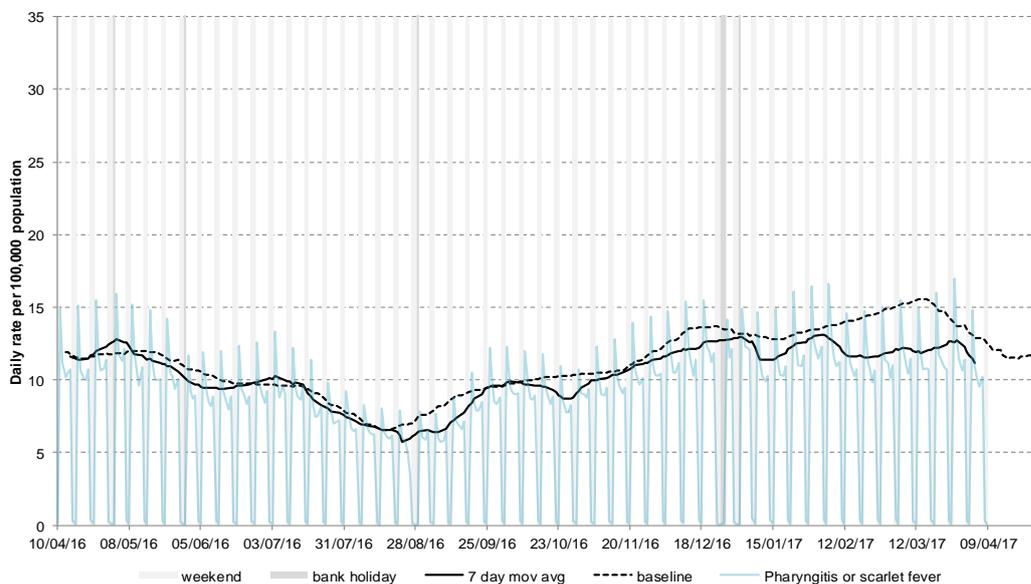
4: Scarlet fever

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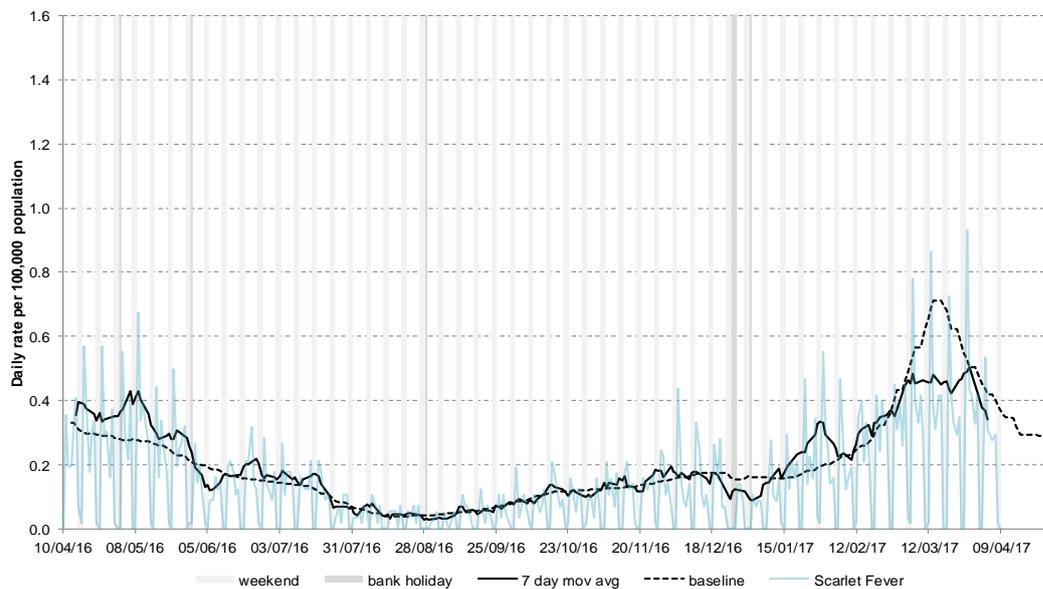

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* 7-day moving average adjusted for bank holidays.

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).
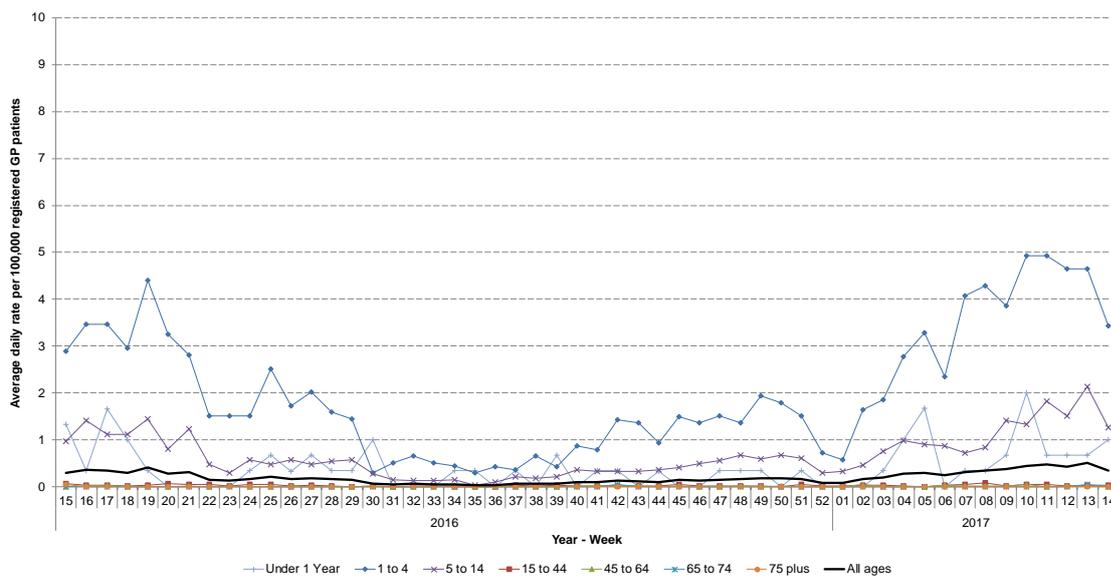
4b: Scarlet fever by PHE centre

Average daily incidence rate by week per 100,000 population (based on a population denominator of approximately 5.5 million patients).
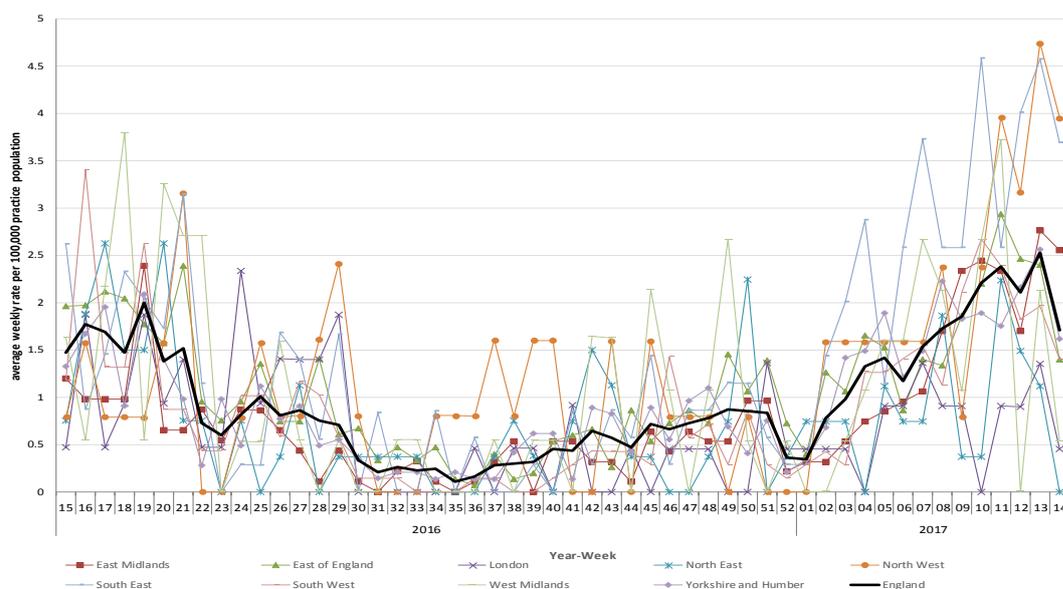
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* 7-day moving average adjusted for bank holidays.

Public Health
England

5: Lower respiratory tract infection (LRTI)

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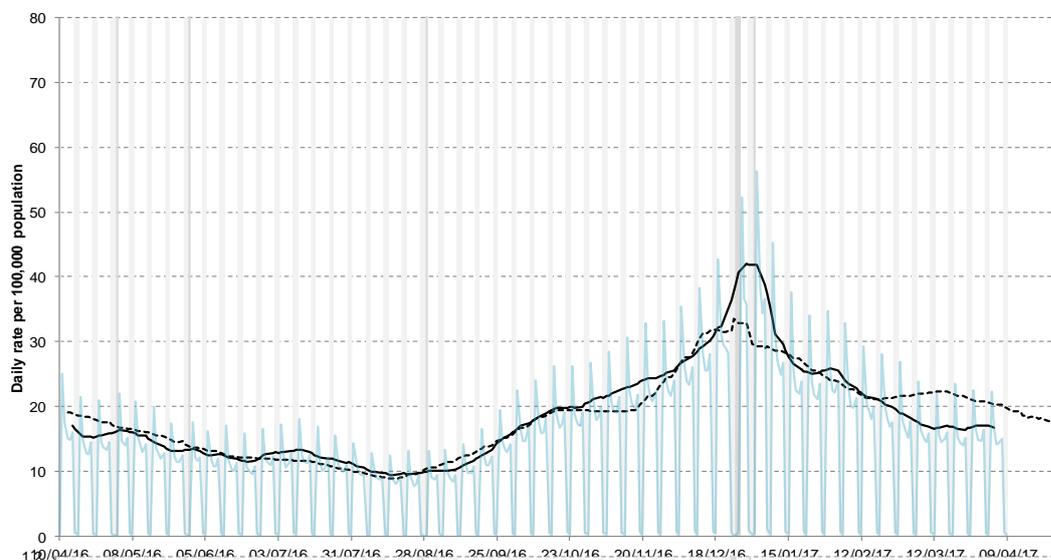
6: Pneumonia

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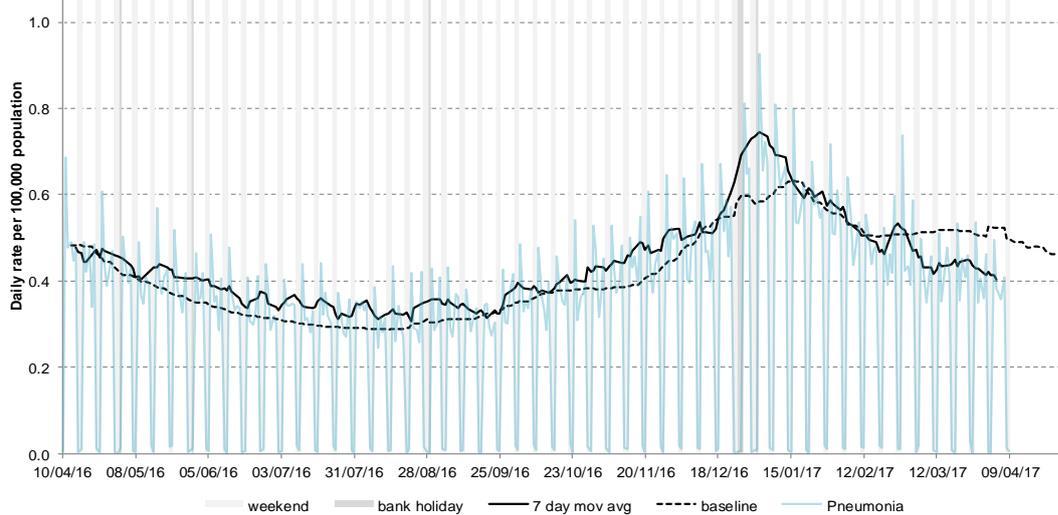
7: Gastroenteritis

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

* 7-day moving average adjusted for bank holidays.

5
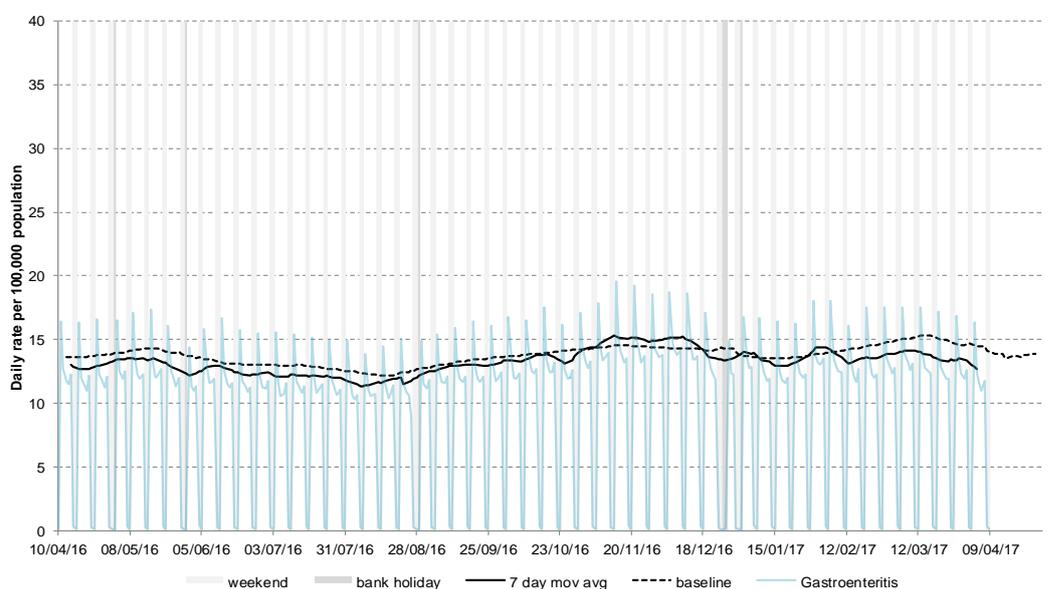
7a: Gastroenteritis by age

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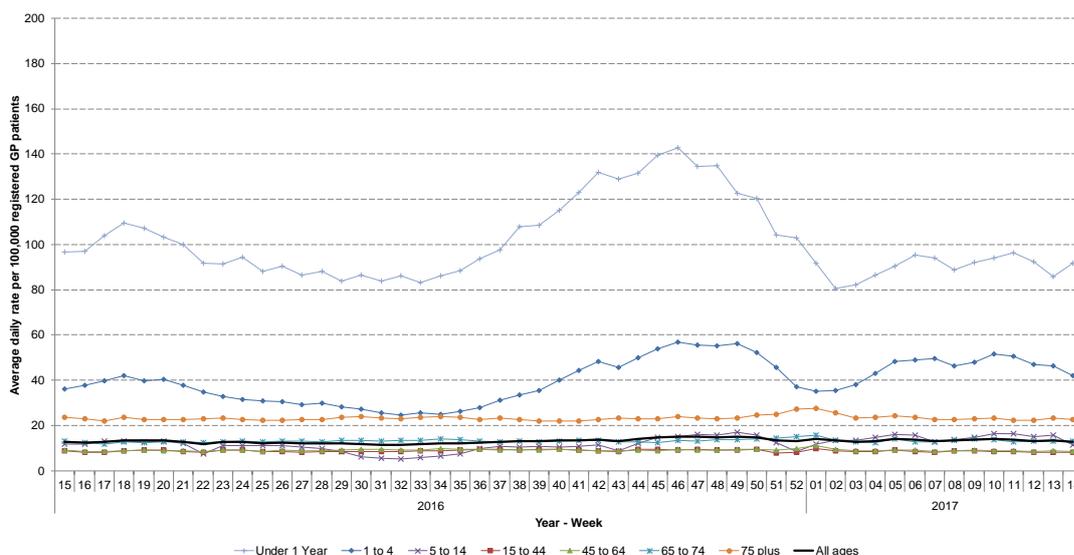
8: Vomiting

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).
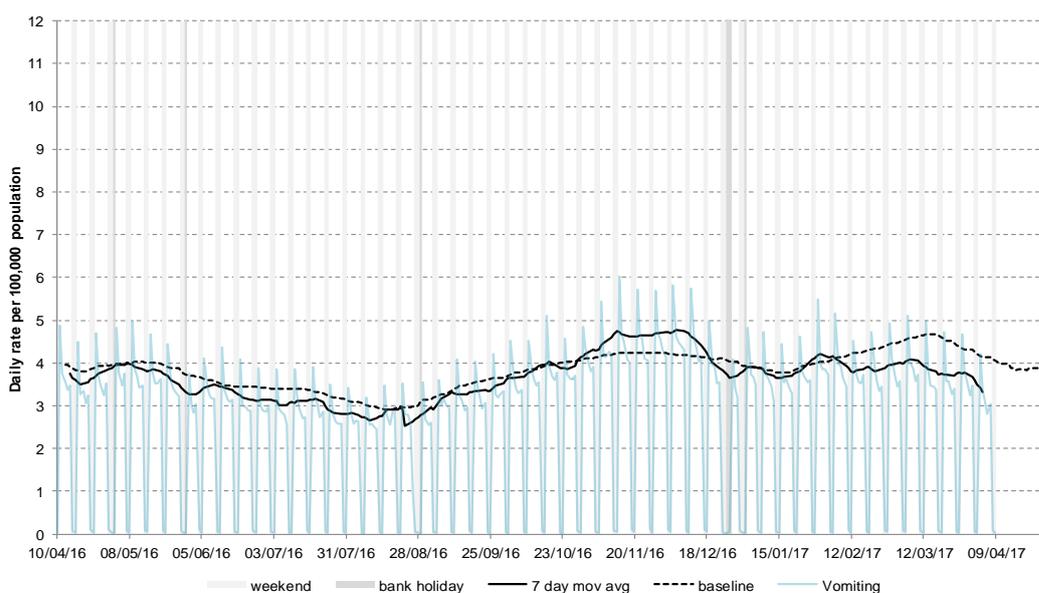
8a: Vomiting by age

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

* 7-day moving average adjusted for bank holidays.

6
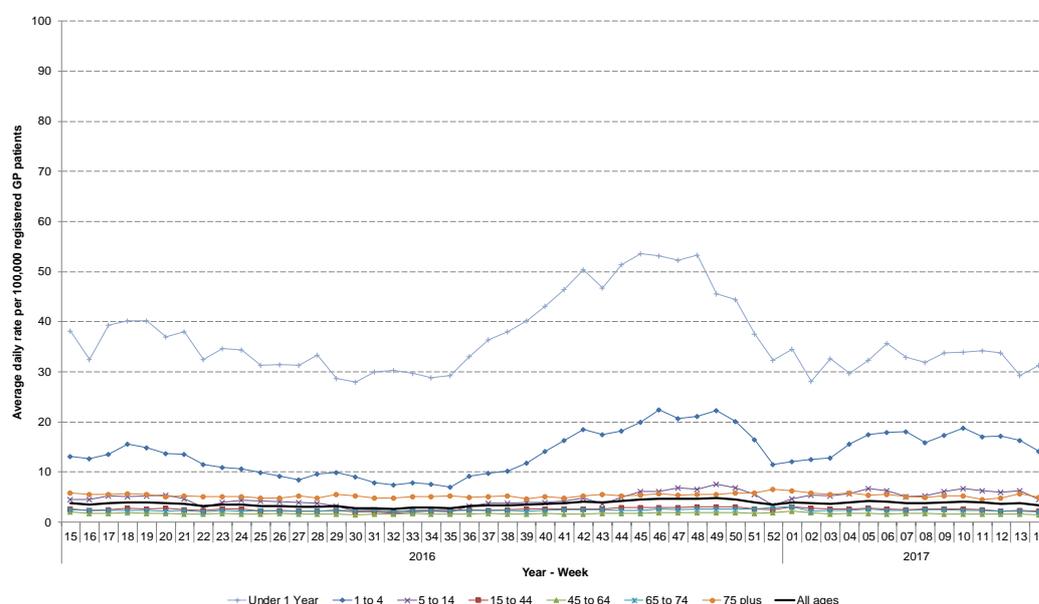
9: Diarrhoea

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).
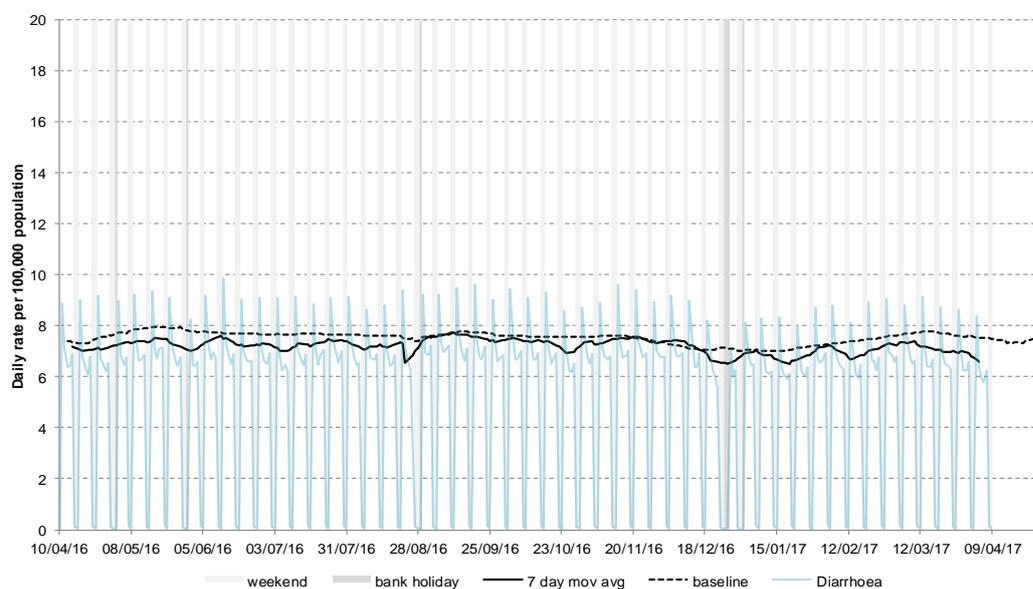
9a. Diarrhoea by age

Average daily incidence rate by week per 100,000 population (all England).
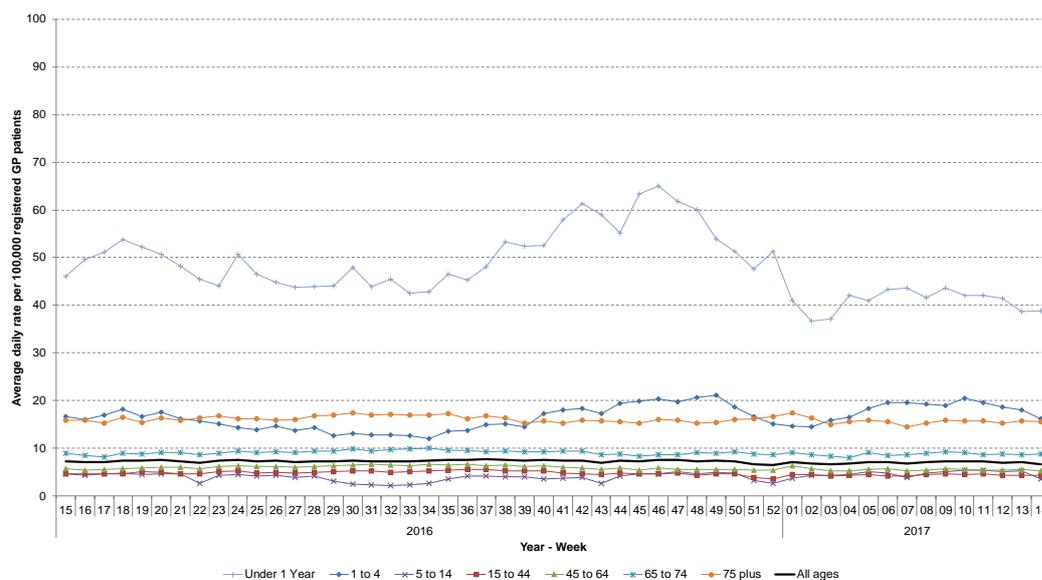
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* 7-day moving average adjusted for bank holidays.

10: Asthma

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).
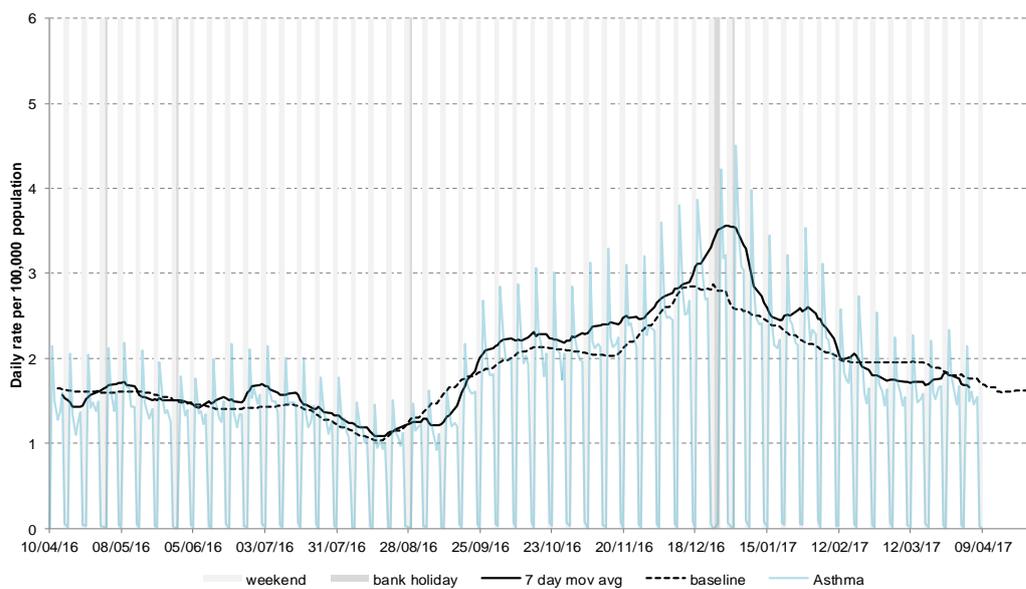
10a: Asthma by age

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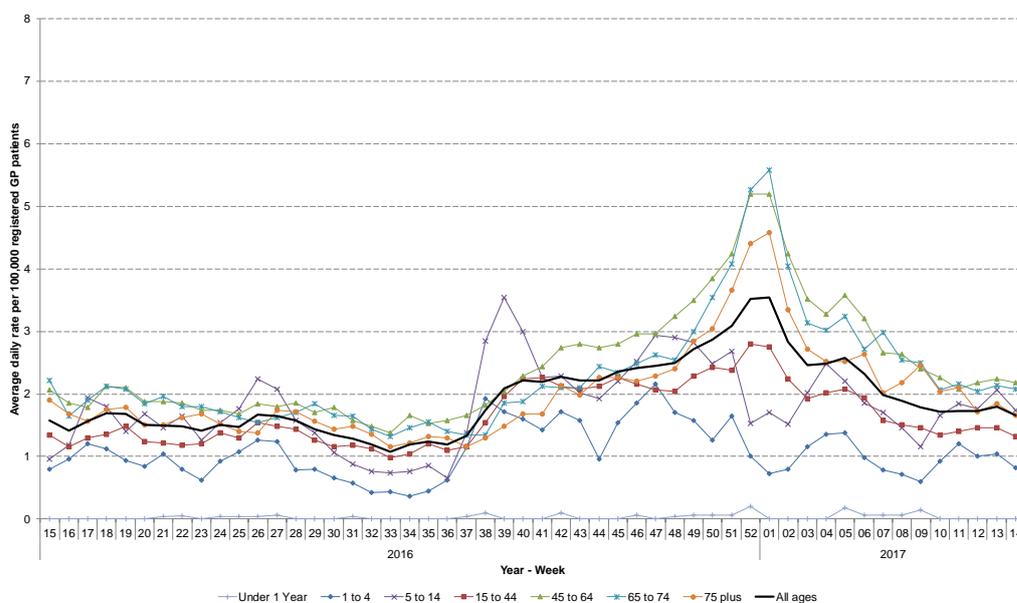
11: Wheeze

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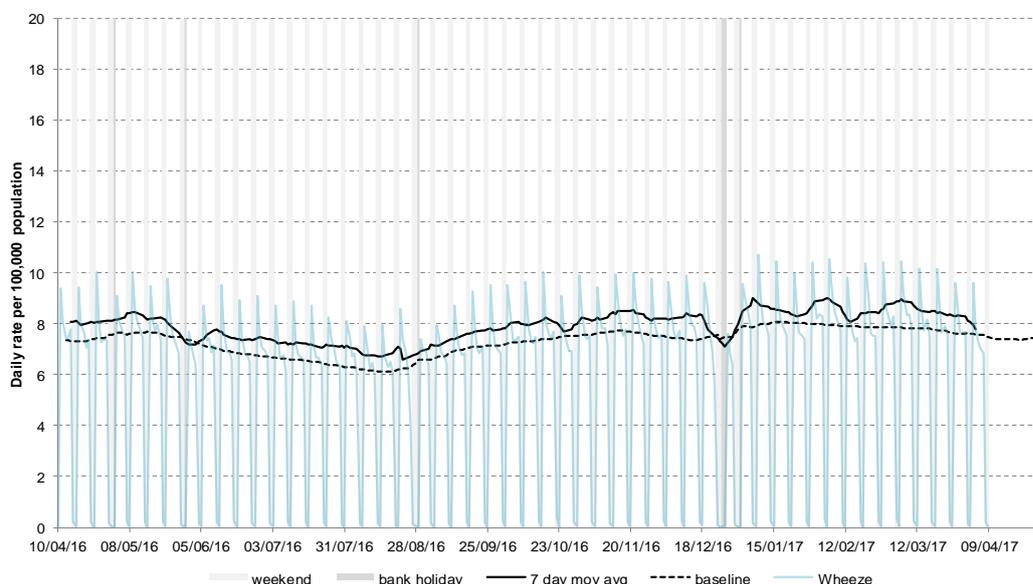
* 7-day moving average adjusted for bank holidays.

11a: Wheeze by age

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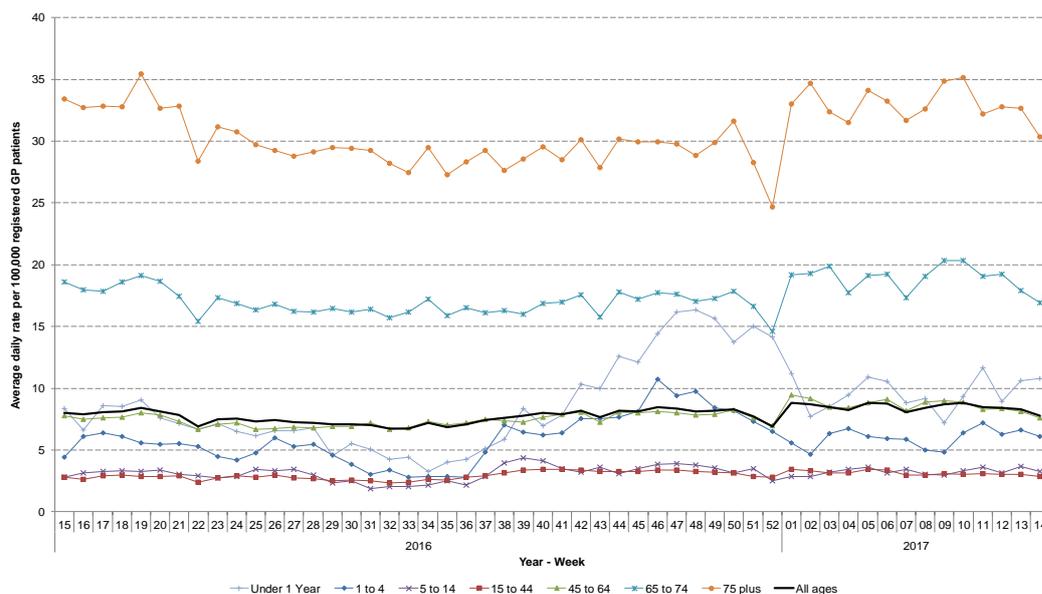
12: Conjunctivitis

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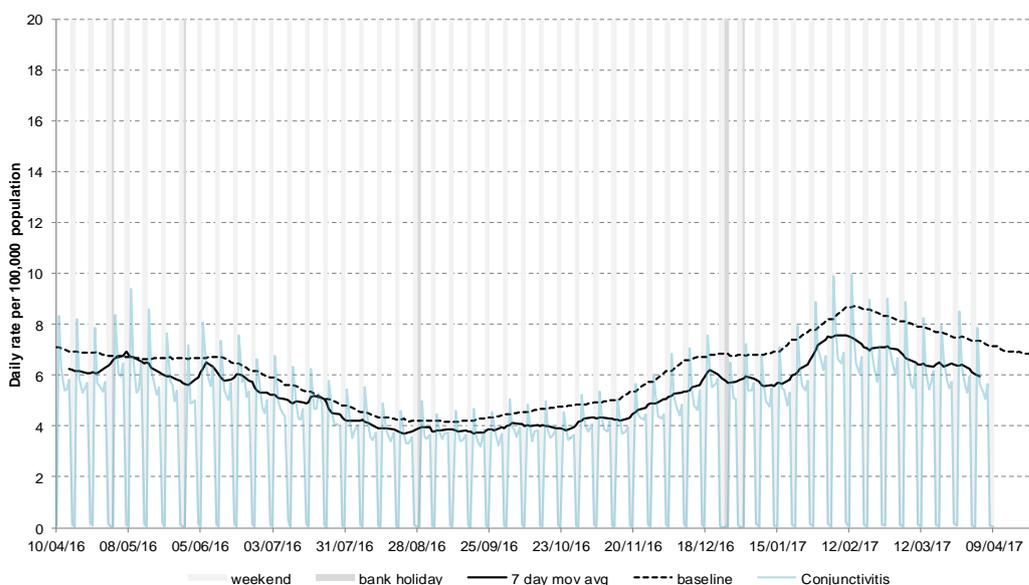
13: Mumps

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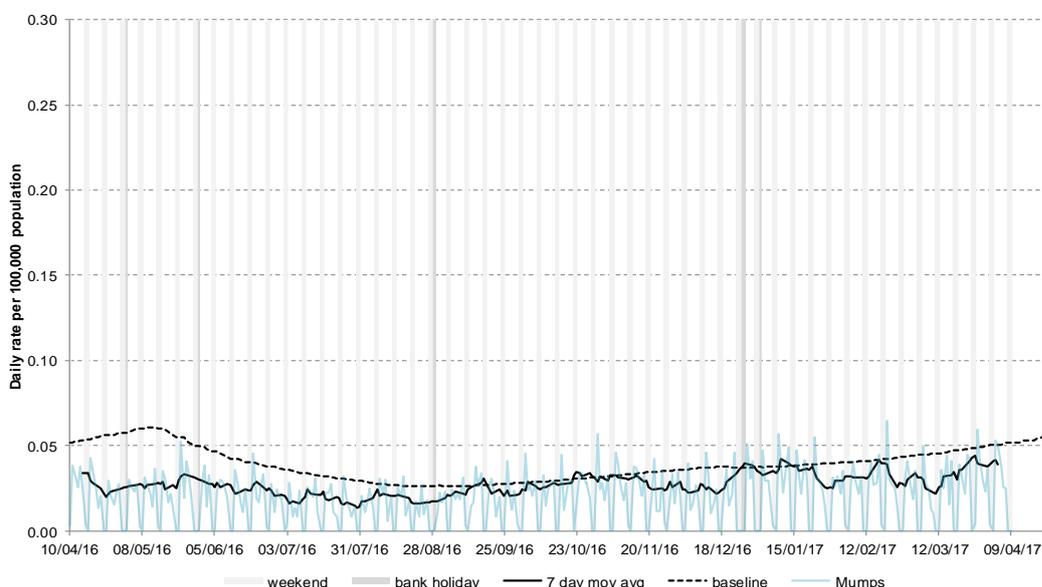
* 7-day moving average adjusted for bank holidays.

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Public Health
England

14: Measles

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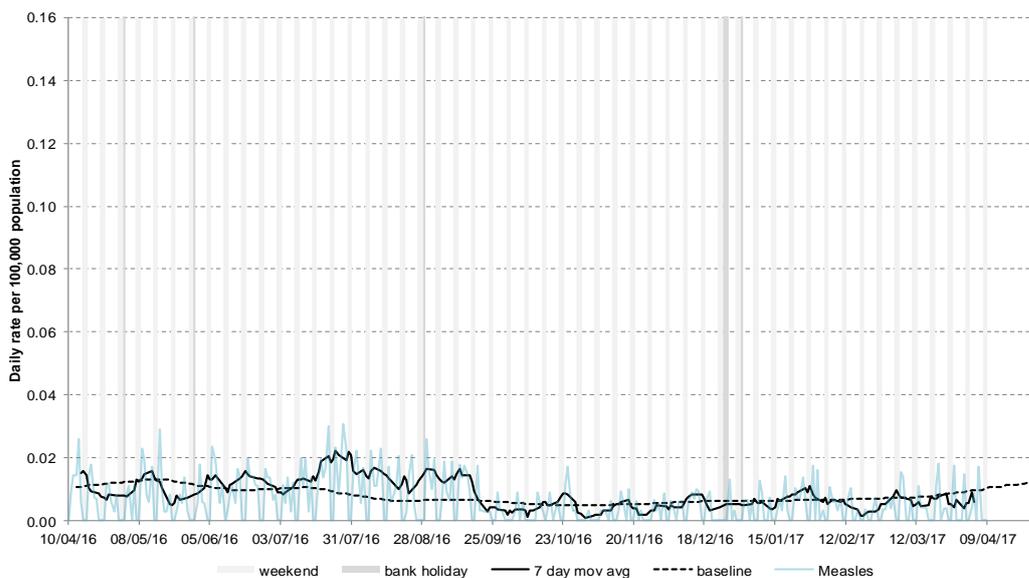
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15: Rubella

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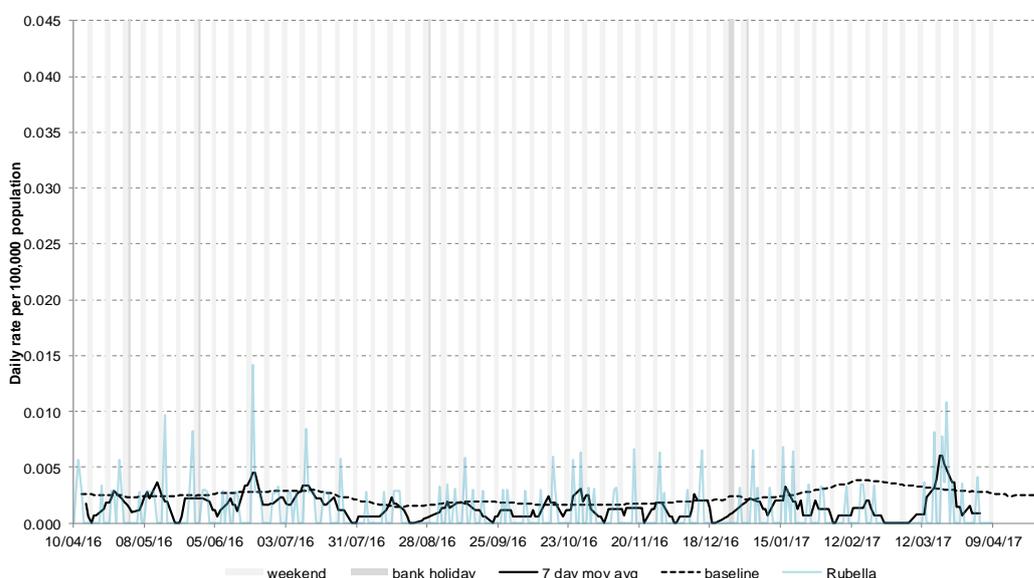
* 7-day moving average adjusted for bank holidays.

16: Pertussis

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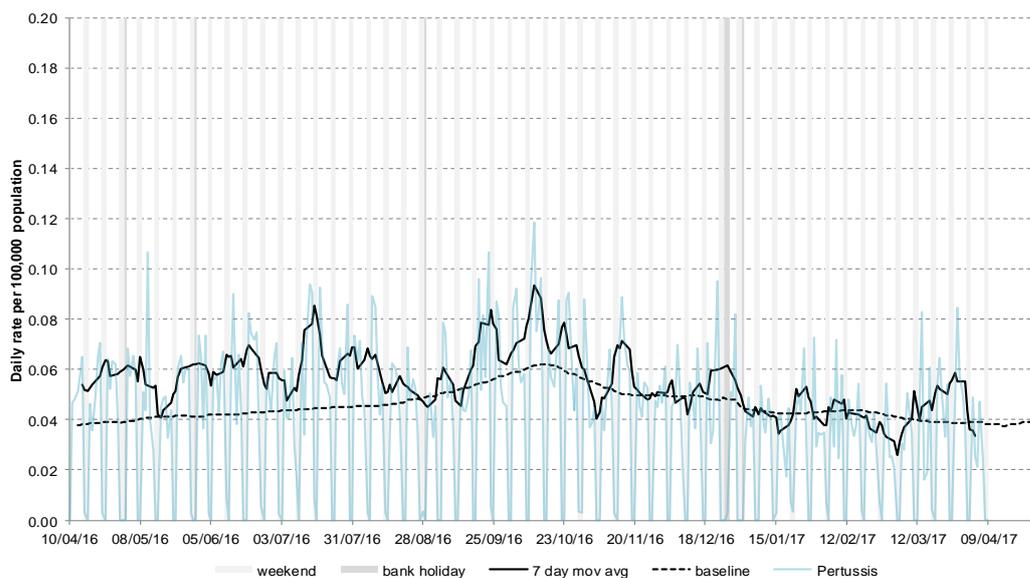
17: Chickenpox

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).
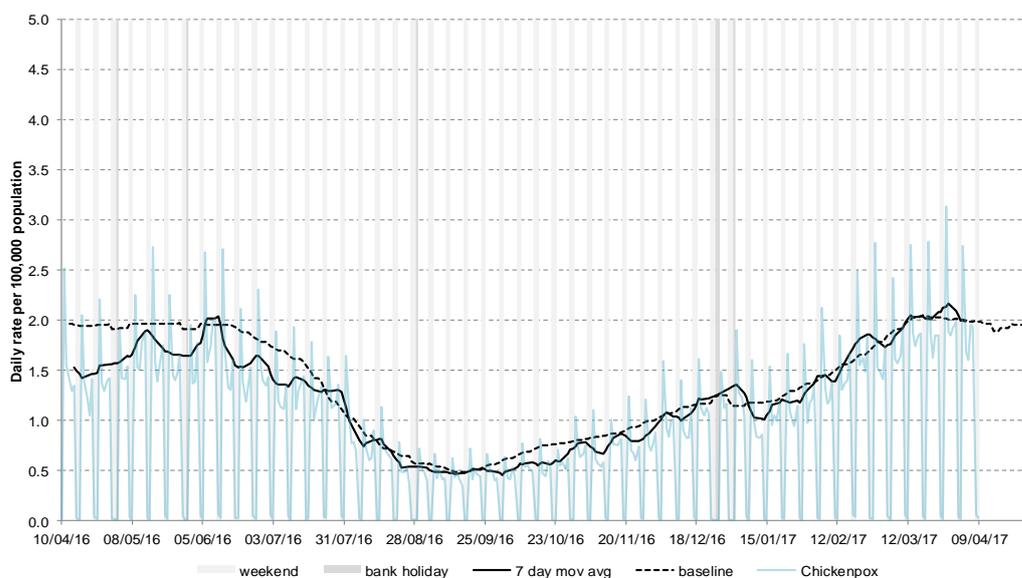
17a: Chickenpox by age

Average daily incidence rate by week per 100,000 population (all England).
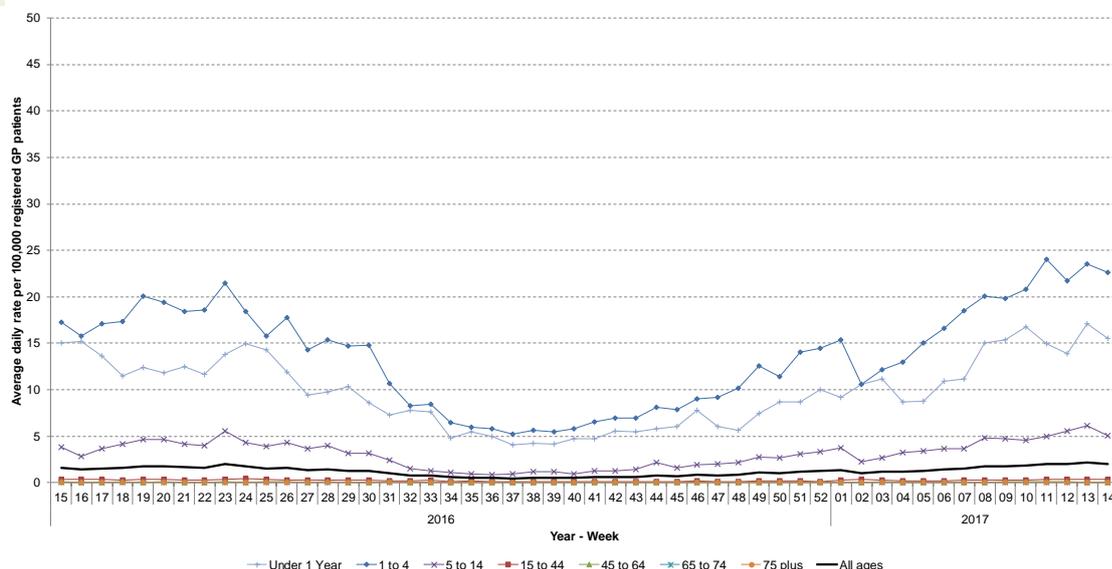
* 7-day moving average adjusted for bank holidays.

11

18: Herpes zoster

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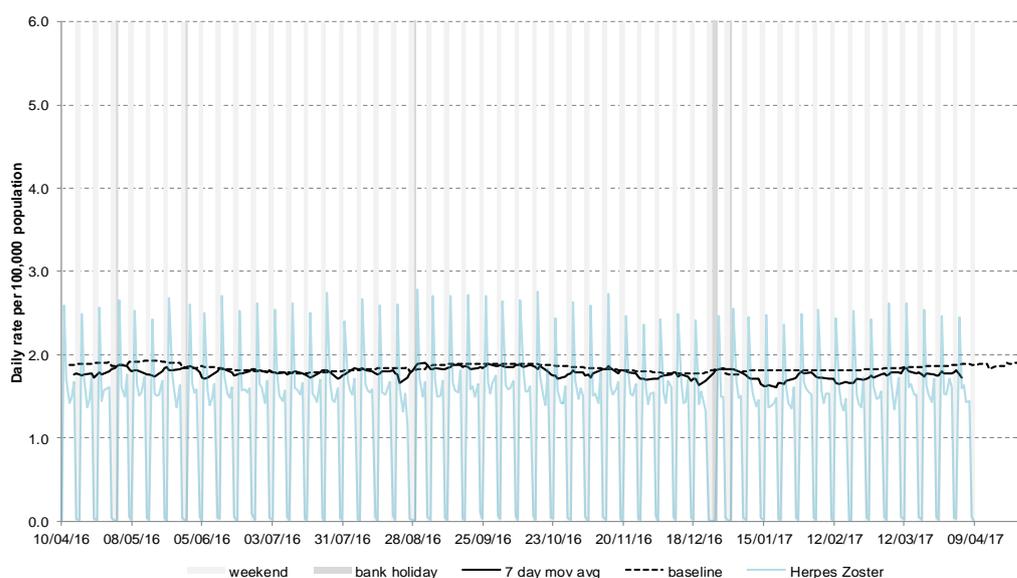
19: Cellulitis

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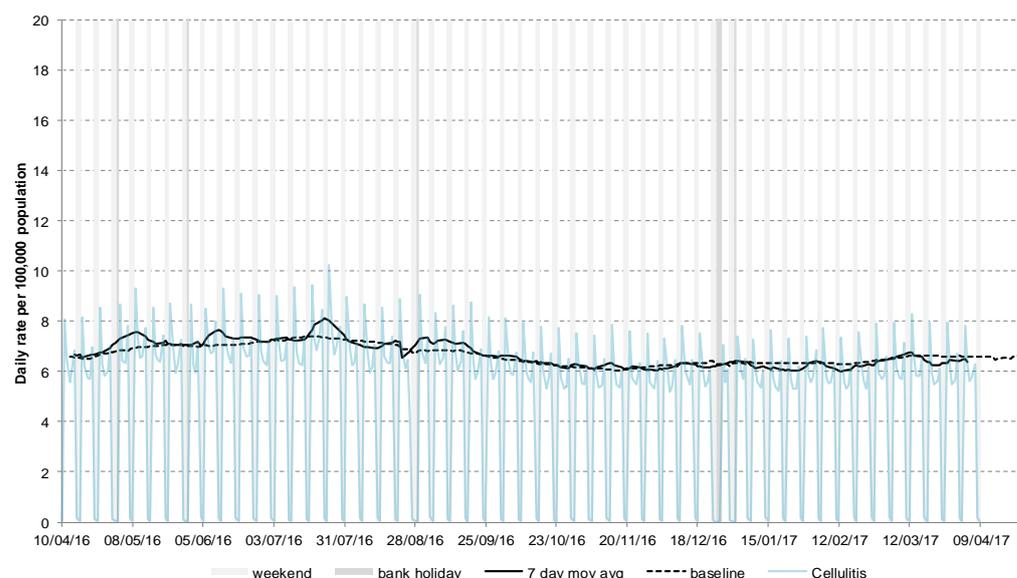
20: Impetigo

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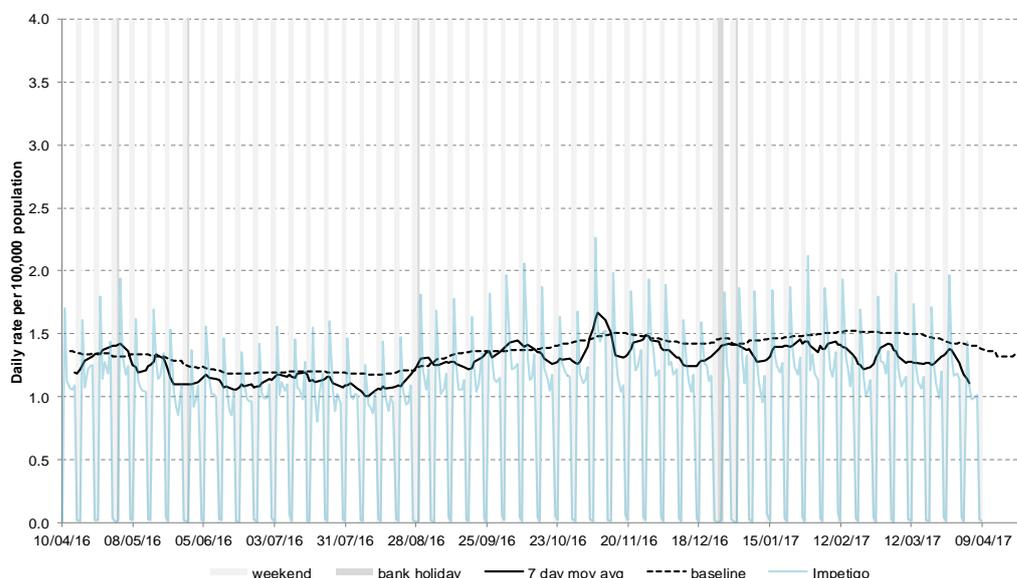
* 7-day moving average adjusted for bank holidays.

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21: Allergic rhinitis

Daily incidence rate (and 7-day moving average*) per 100,000 population (all England, all ages).
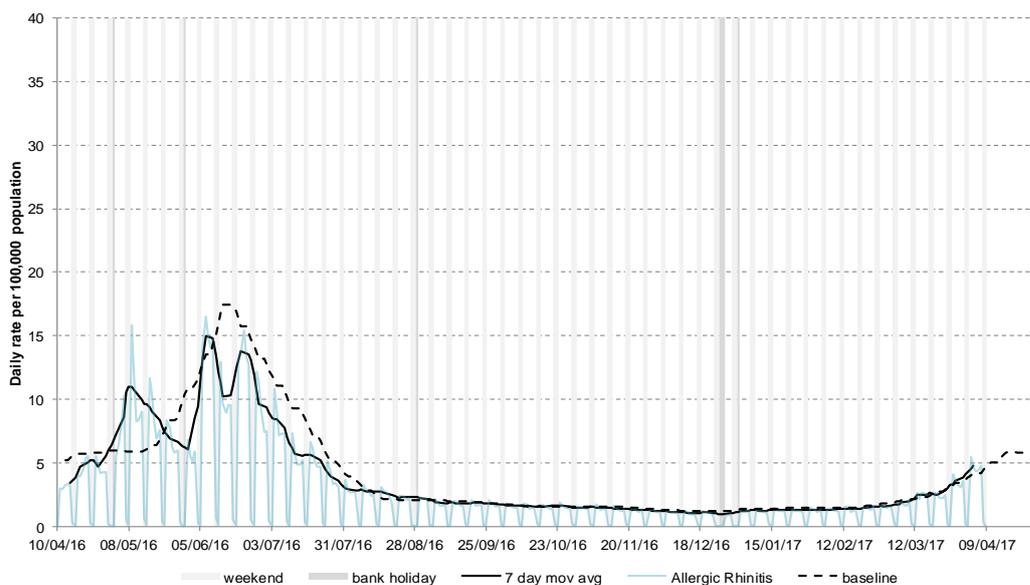
## 21a: Allergic rhinitis by age

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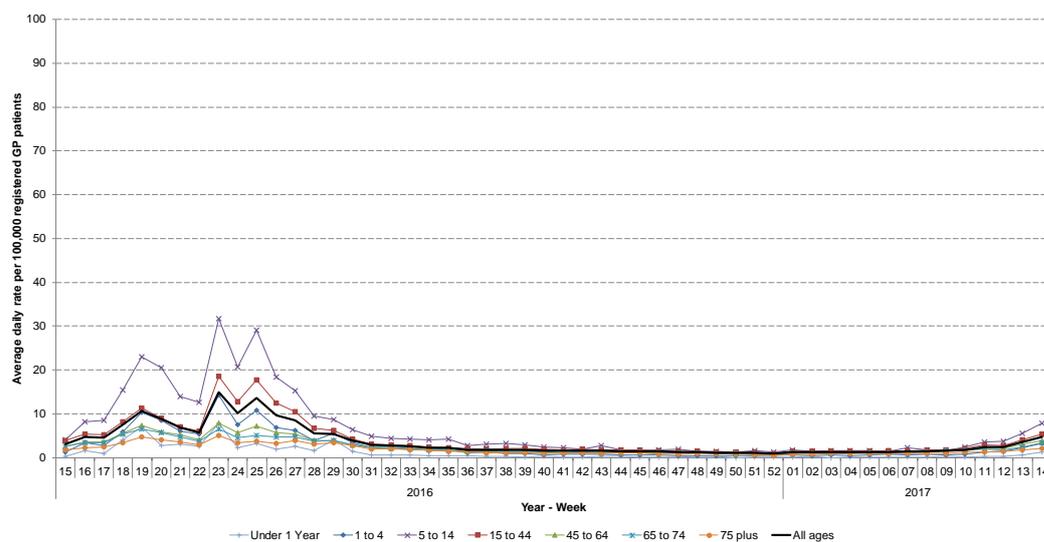

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* 7-day moving average adjusted for bank holidays.

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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.

[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.

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

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England

Influenza-like illness GP consultations by LA (England)

Week 11

Week 12

Week 13

Week 14

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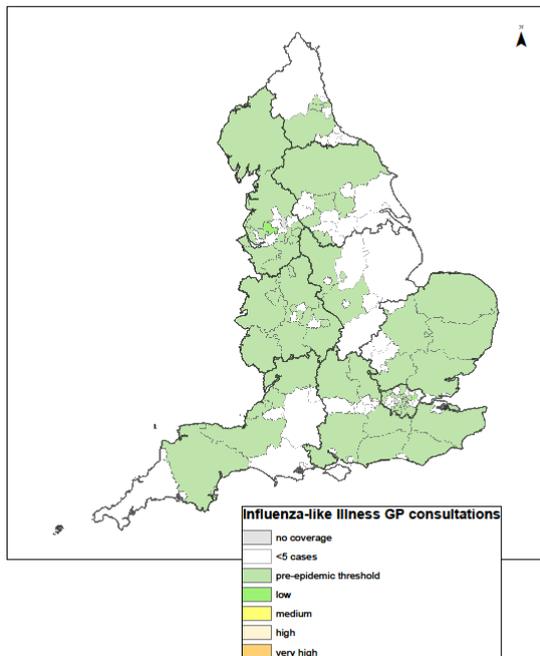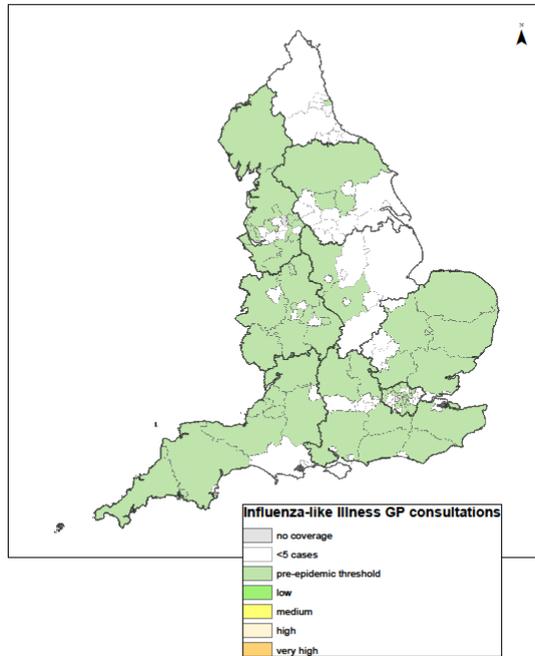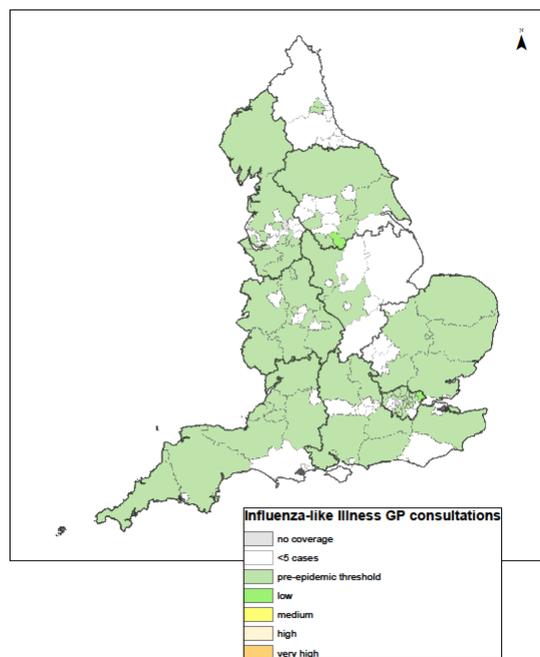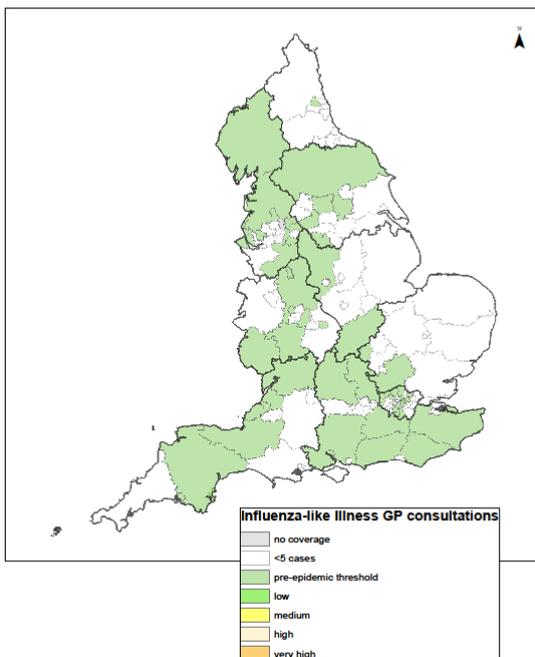
North East

Influenza-like illness GP consultations by LA (North East PHE Centre)
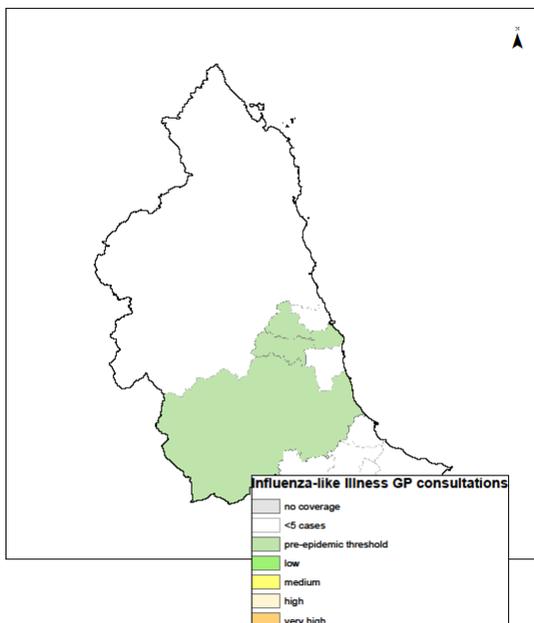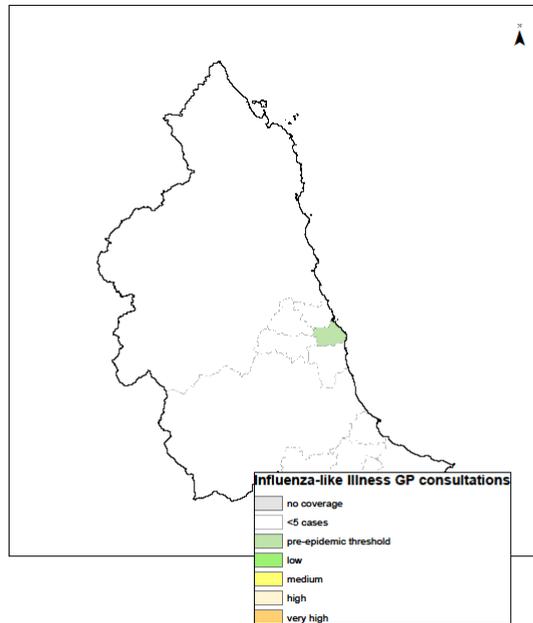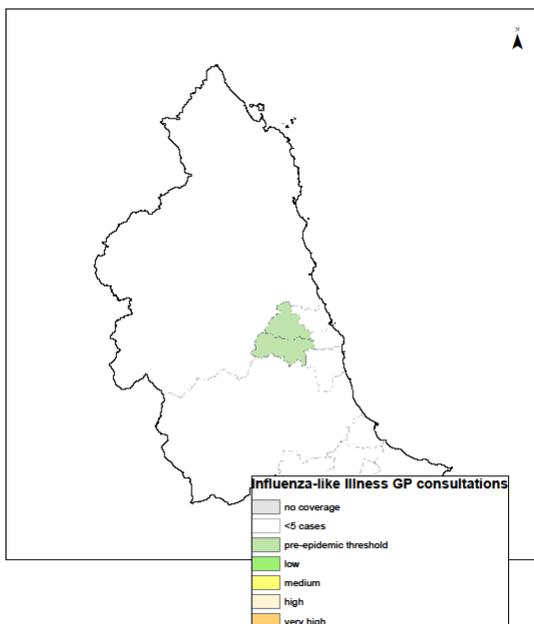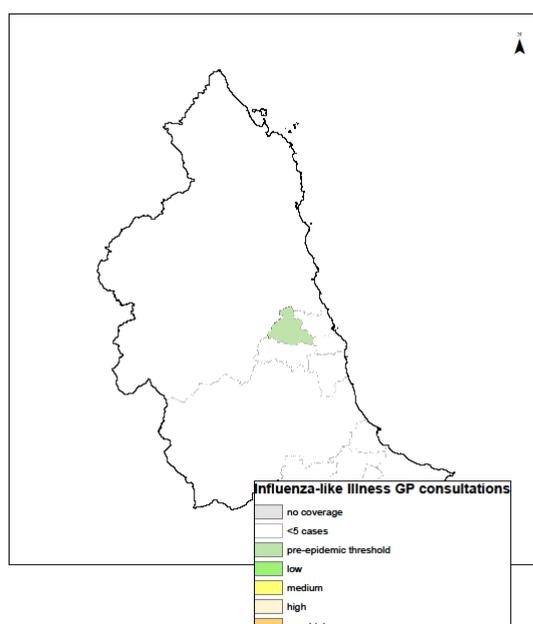
Week 11

Week 12

Week 13

Week 14

Yorkshire & Humber

Influenza-like illness GP consultations by LA (Yorkshire & Humber PHE Centre)

Week 11

Influenza-like Illness GP consultations
- no coverage
- <5 cases
- pre-epidemic threshold
- low
- medium
- high
- very high

Week 12

Influenza-like Illness GP consultations
- no coverage
- <5 cases
- pre-epidemic threshold
- low
- medium
- high
- very high

Week 13

Influenza-like Illness GP consultations
- no coverage
- <5 cases
- pre-epidemic threshold
- low
- medium
- high
- very high

Week 14

Influenza-like Illness GP consultations
- no coverage
- <5 cases
- pre-epidemic threshold
- low
- medium
- high
- very high

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Public Health England

North West

Influenza-like illness GP consultations by LA (North West PHE Centre)

Week 11

Week 12

Week 13

Week 14

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Public Health England
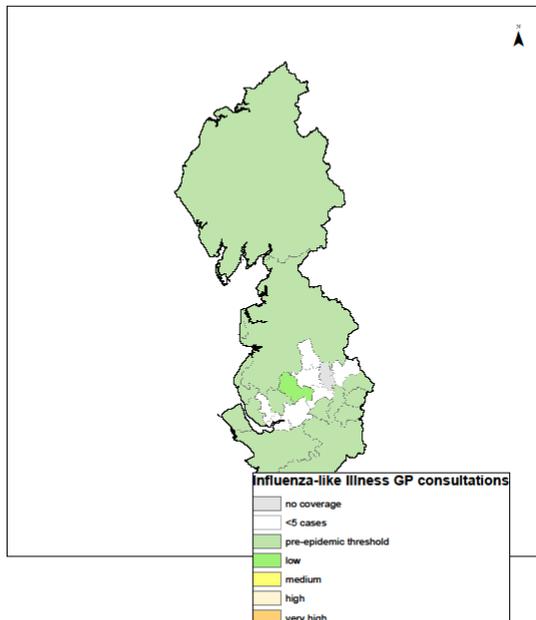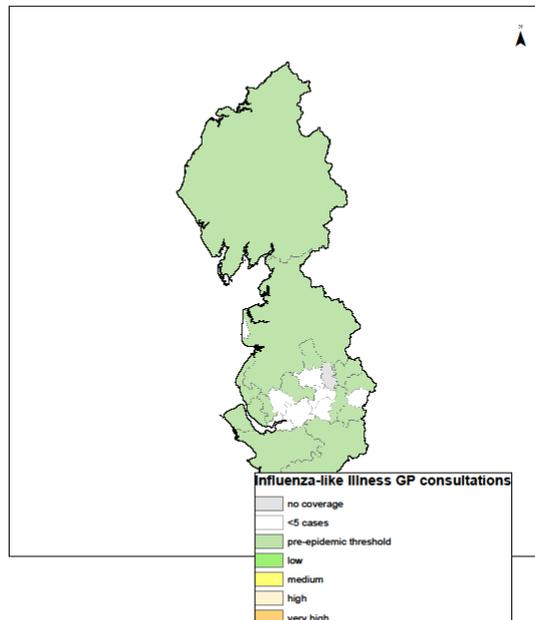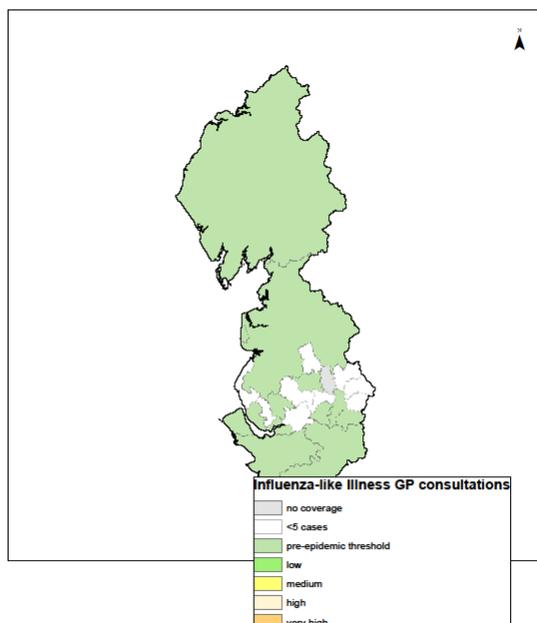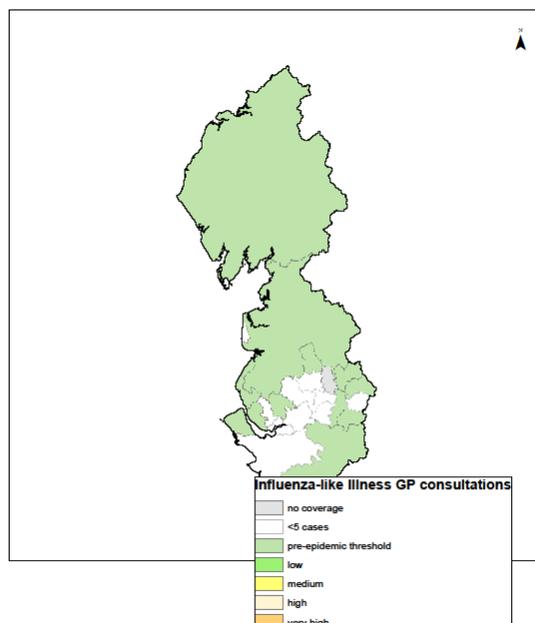
East Midlands

Influenza-like illness GP consultations by LA (East Midlands PHE Centre)

Week 11

Week 12

Week 13

Week 14

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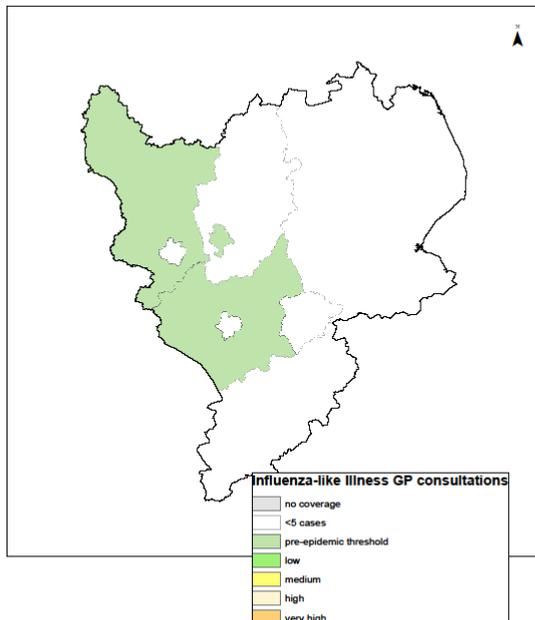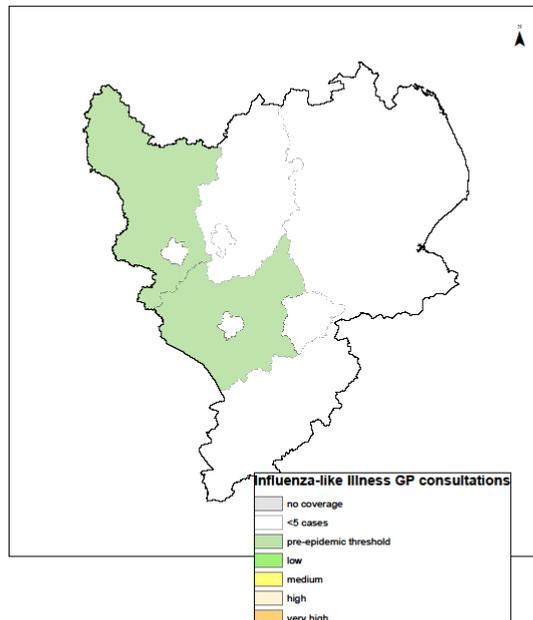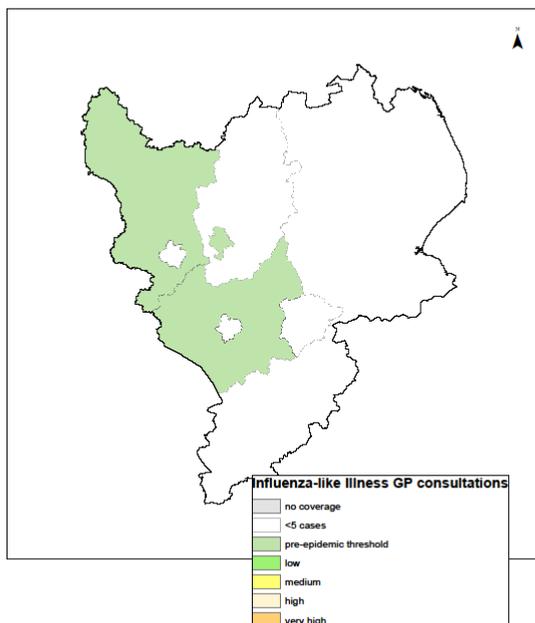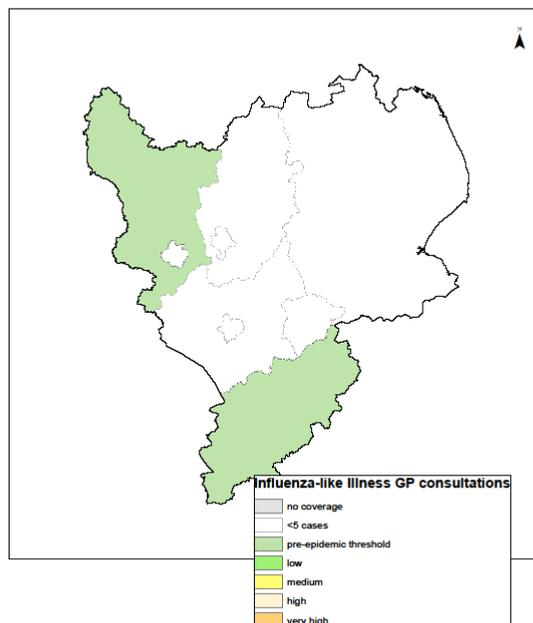
West Midlands

Influenza-like illness GP consultations by LA (West Midlands PHE Centre)

Week 11

Week 12

Week 13

Week 14

Public Health England
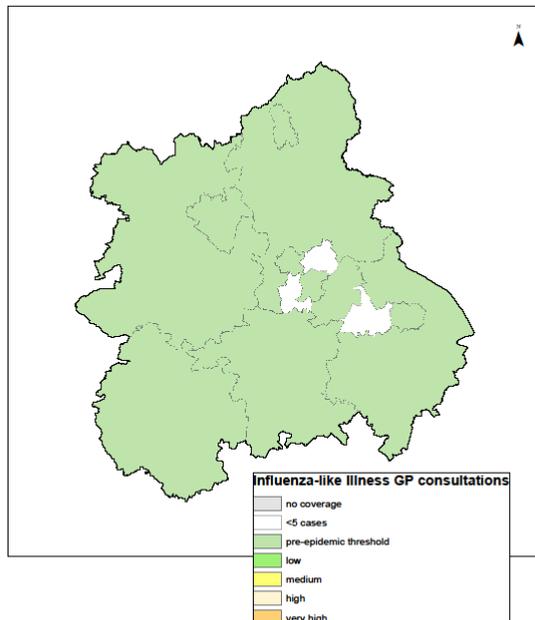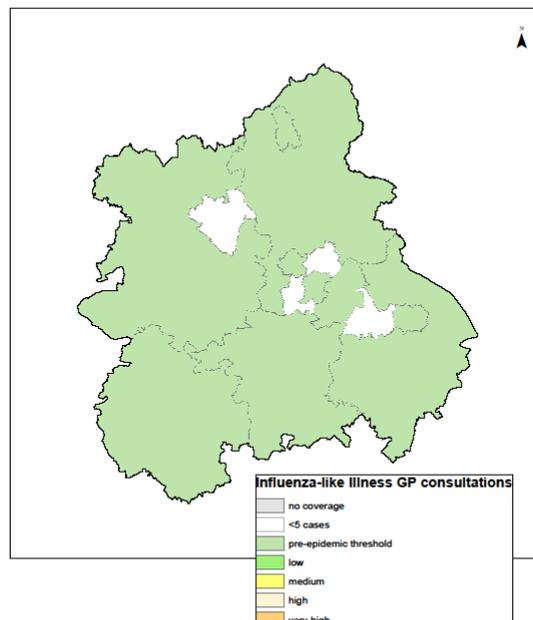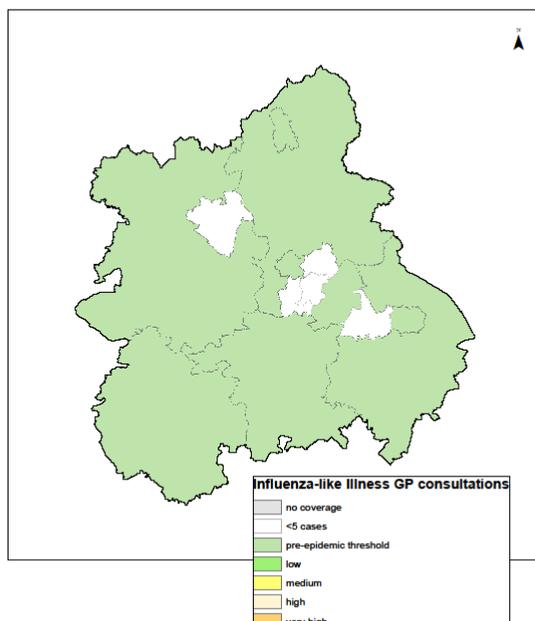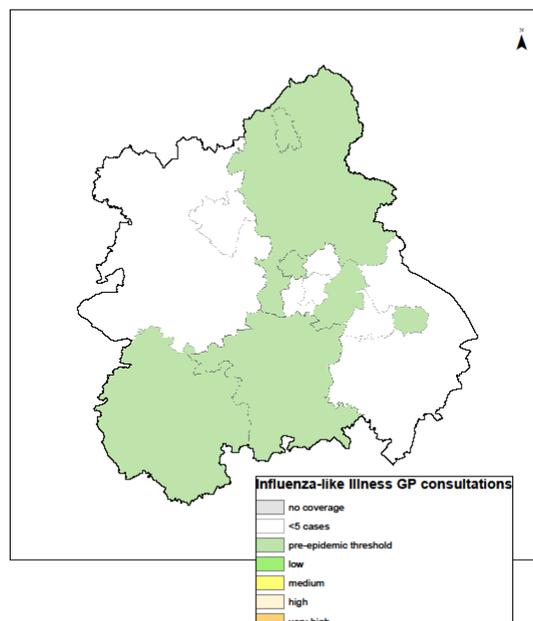
East of England

Influenza-like illness GP consultations by LA (East of England PHE Centre)

Week 11

Week 12

Week 13

Week 14

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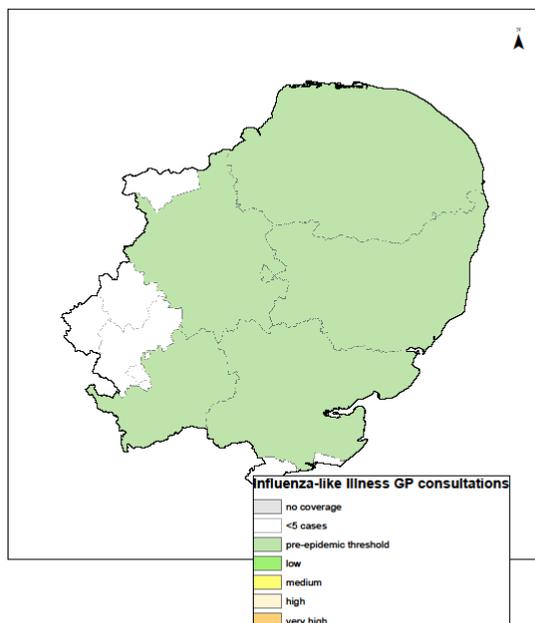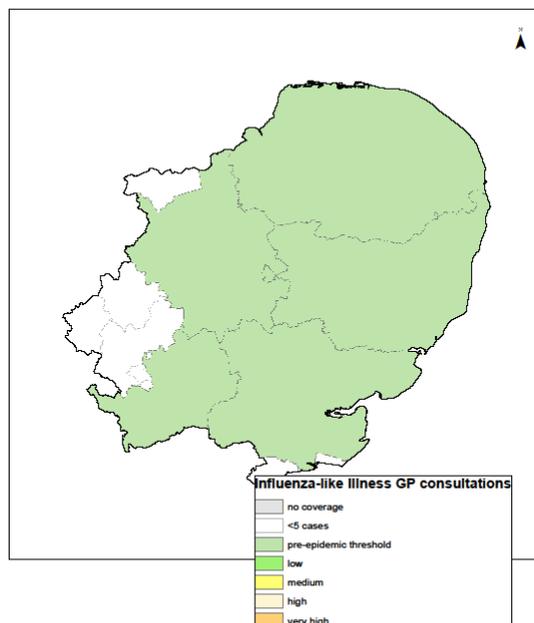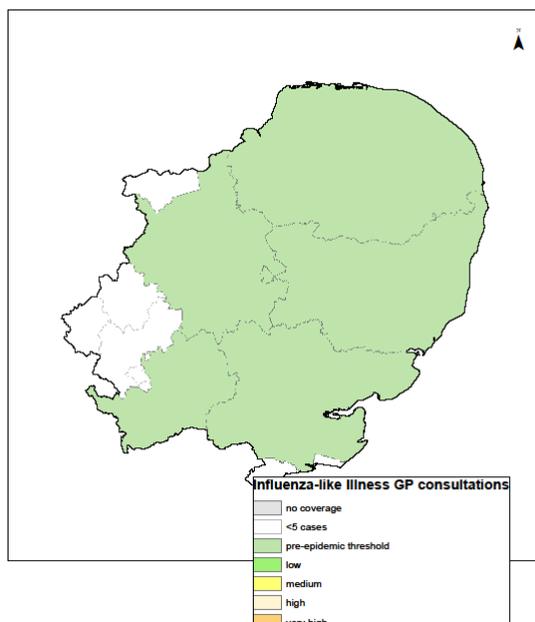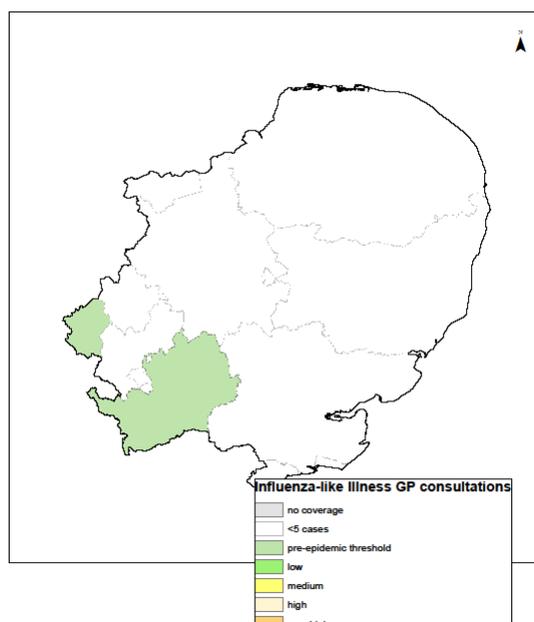
South East

Influenza-like illness GP consultations by LA (South East PHE Centre)

Week 11

Week 12

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Week 14

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Public Health
England
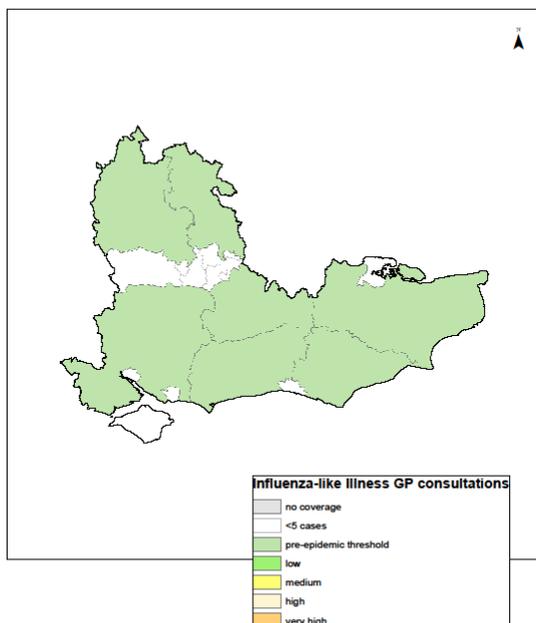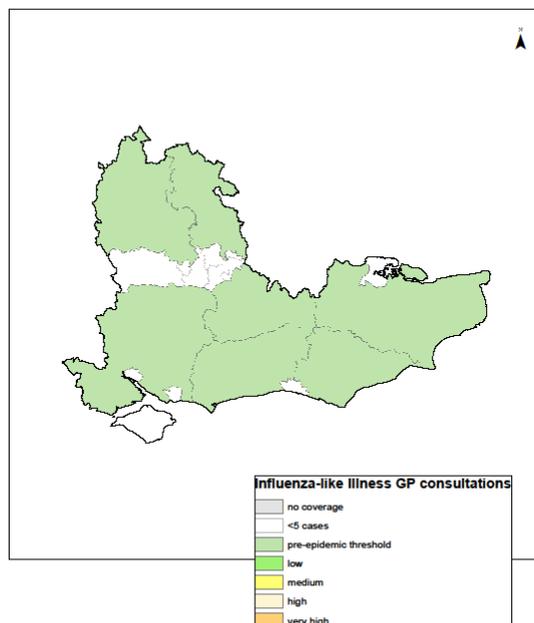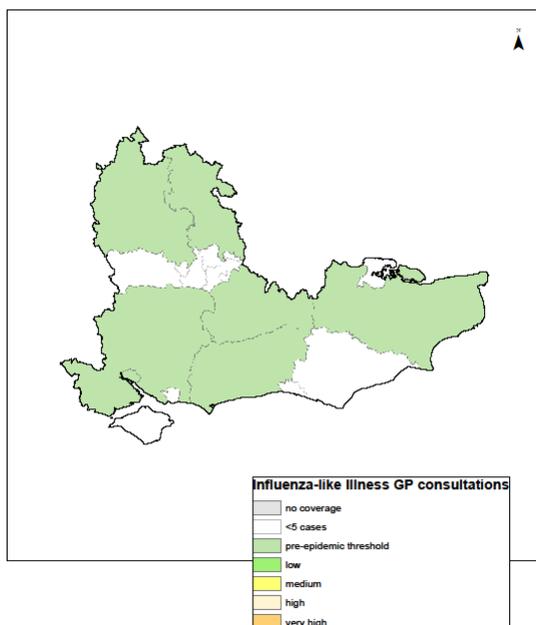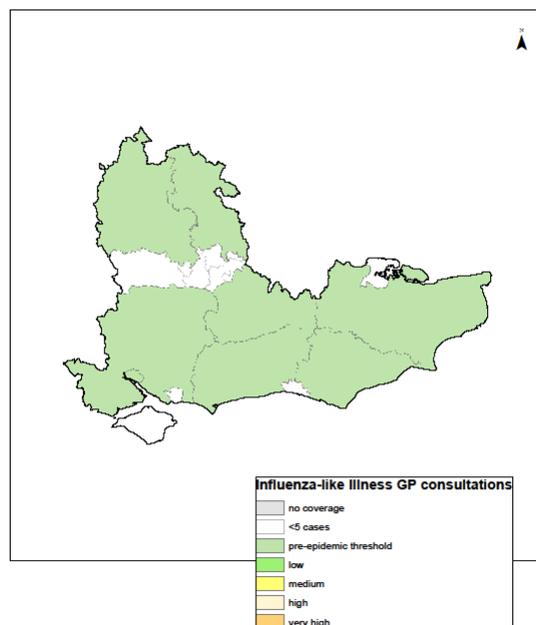
London

Influenza-like illness GP consultations by LA (London PHE Centre)

Week 11

Week 12

Week 13

Week 14

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Public Health
England
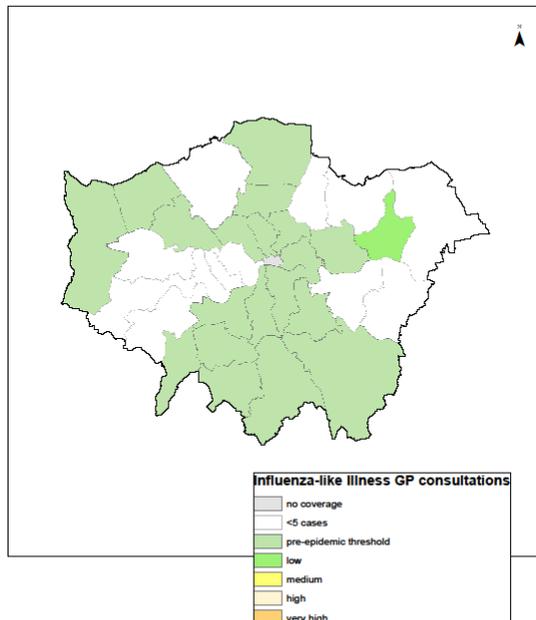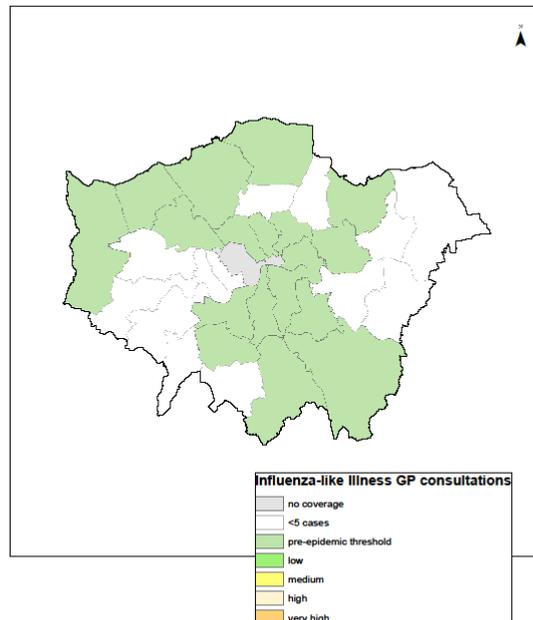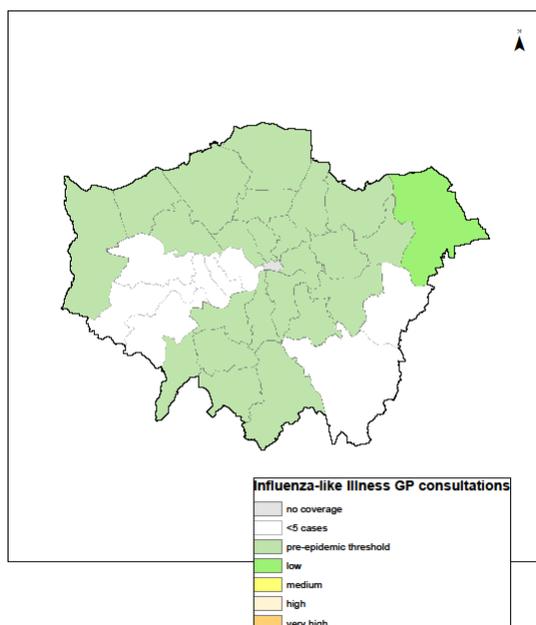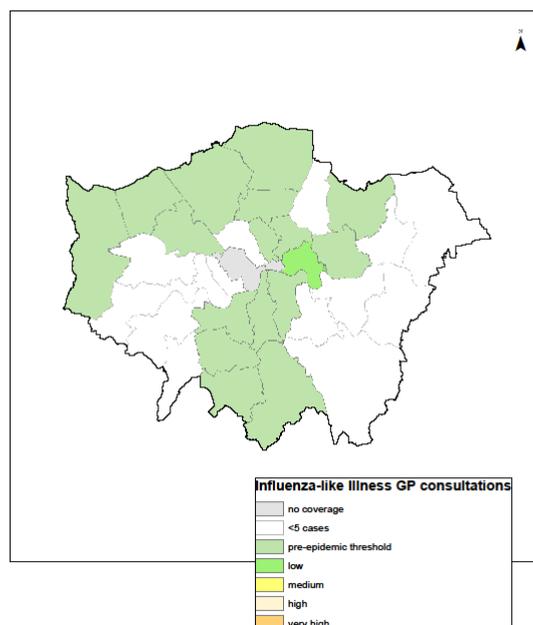
South West

Influenza-like illness GP consultations by LA (South West PHE Centre)

Week 11

Week 12

Week 13

Week 14

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