



Royal College of
General Practitioners

RSC Communicable and Respiratory Disease Report for England

Key Statistics:

Week Number/Year.....**31/2018**
 Week Starting - Ending.....**30/07/2018 - 05/08/2018**
 No. of Practices.....**175**
 Population.....**1844961**

National (England)

- **Allergic Rhinitis** : decreased from **9.3** in week 30 to **6.7** in week 31.
- **Asthma** : was unchanged at **9.9** in week 30 compared with **10.0** in week 31.
- **Common Cold** : was unchanged at **28.9** in week 30 compared with **29.5** in week 31.
- **Infectious Intestinal Diseases (IID)** : increased from **7.8** in week 30 to **9.1** in week 31.
- **Respiratory System Diseases** : was unchanged at **141.3** in week 30 compared with **144.0** in week 31.

Regional (North, South, London and Midlands and East)

- **Allergic Rhinitis** : decreased from **13.9** in week 30 to **8.7** in week 31 in the London region, decreased from **8.4** in week 30 to **6.8** in week 31 in the North region, decreased from **7.4** in week 30 to **4.9** in week 31 in the South region, and decreased a little from **8.9** in week 30 to **8.5** in week 31 in the Midlands And East region.
- **Asthma** : decreased from **11.1** in week 30 to **9.3** in week 31 in the London region, was unchanged at **10.6** in week 30 compared with **10.3** in week 31 in the North region, increased from **9.2** in week 30 to **10.9** in week 31 in the South region, and decreased from **8.9** in week 30 to **8.2** in week 31 in the Midlands And East region.
- **Common Cold** : decreased from **37.8** in week 30 to **35.9** in week 31 in the London region, increased from **28.9** in week 30 to **31.7** in week 31 in the North region, increased from **23.4** in week 30 to **25.0** in week 31 in the South region, and decreased a little from **28.5** in week 30 to **27.6** in week 31 in the Midlands And East region.
- **Infectious Intestinal Diseases (IID)** : increased from **8.3** in week 30 to **10.6** in week 31 in the London region, was unchanged at **10.4** in week 30 compared with **10.5** in week 31 in the North region, increased from **5.8** in week 30 to **7.8** in week 31 in the South region, and increased a little from **6.7** in week 30 to **7.0** in week 31 in the Midlands And East region.
- **Respiratory System Diseases** : decreased from **151.4** in week 30 to **141.3** in week 31 in the London region, increased from **147.1** in week 30 to **164.7** in week 31 in the North region, was unchanged at **129.2** in week 30 compared with **130.7** in week 31 in the South region, and decreased a little from **144.0** in week 30 to **139.4** in week 31 in the Midlands And East region.

Comment:

Presentations of many respiratory and other conditions have decreased this week and are in line with those anticipated at this time of year.

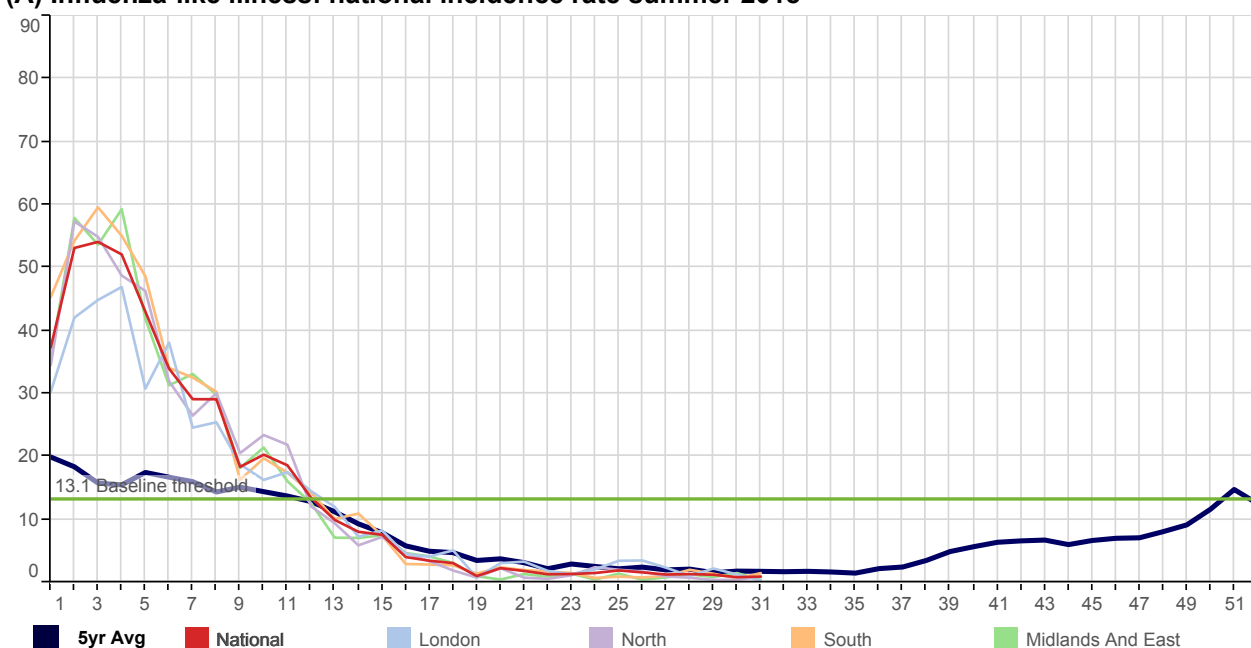
Spring/Summer Focus 2018

Please see page 13 for explanatory notes on the data.

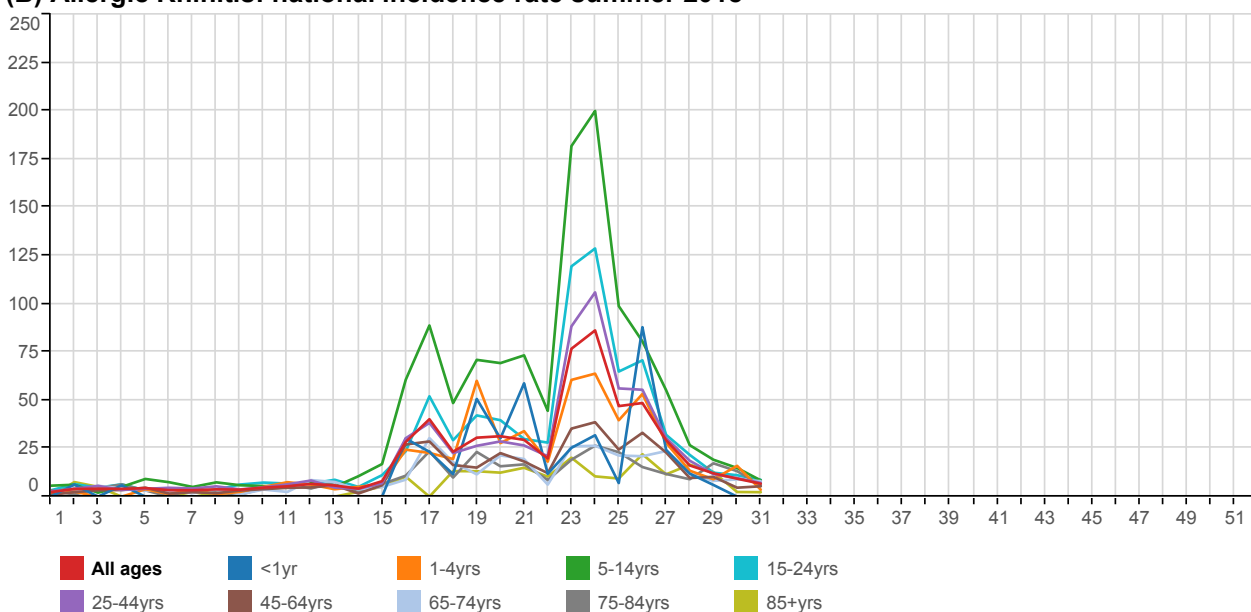
Weekly influenza-like illness and bronchitis incidence rates per 100,000 persons

Influenza-like illness		Acute Bronchitis		Influenza-like illness		Acute Bronchitis	
<1yr	0.0		66.5	London	0.3		21.2
1-4yrs	0.0		46.9	North	0.9		42.4
5-14yrs	0.0		8.0	South	1.5		29.1
15-24yrs	0.0		10.9	Midlands And East	0.4		29.9
25-44yrs	1.5		17.6	National	0.9		31.5
45-64yrs	1.3		31.0				
65-74yrs	1.7		61.9				
75-84yrs	0.0		80.6				
85+yrs	0.0		149.0				
All ages	0.9		31.5				

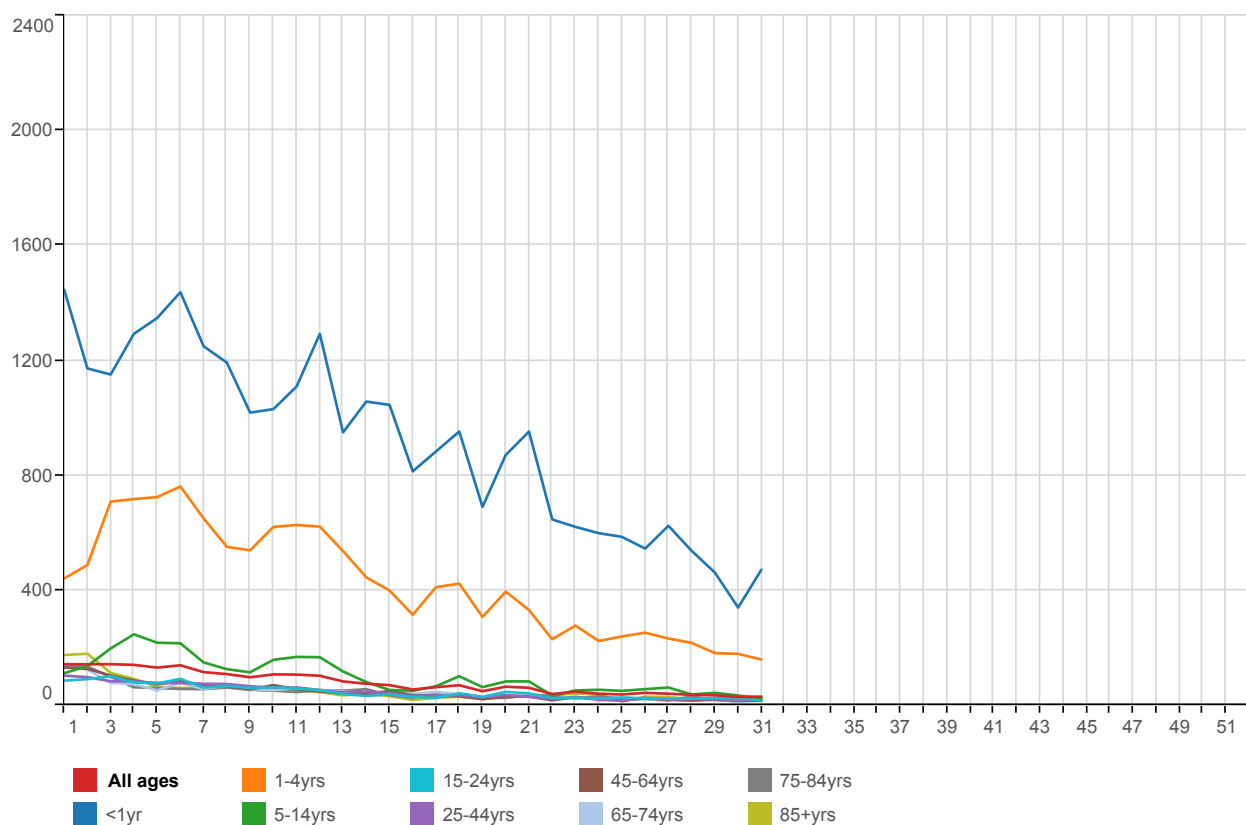
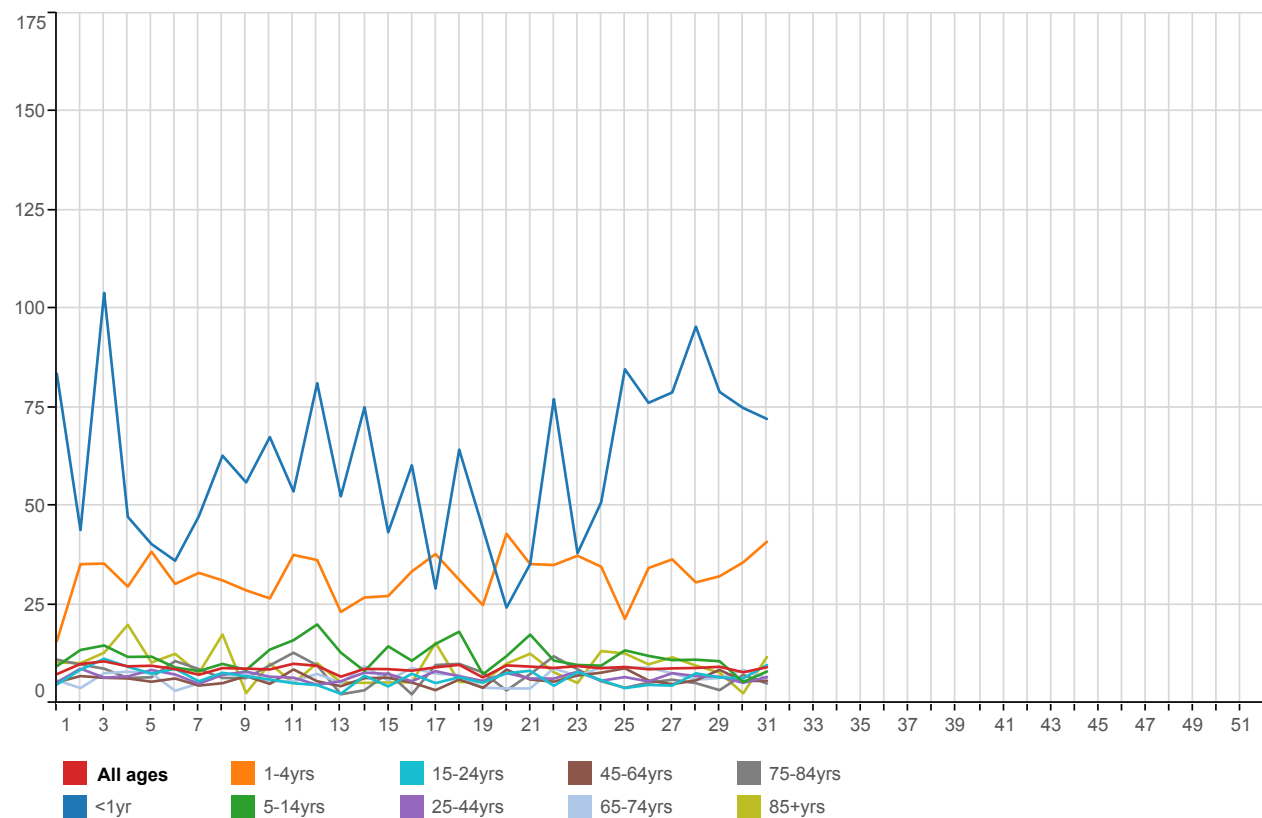
(A) Influenza-like illness: national incidence rate summer 2018*



(B) Allergic Rhinitis: national incidence rate summer 2018*



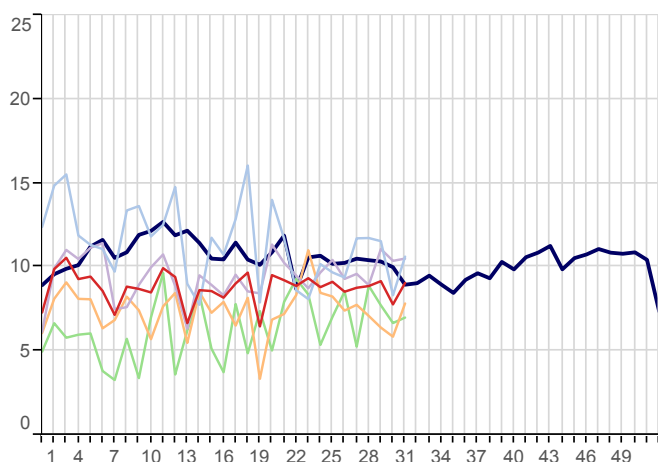
* The thresholds used are the agreed RCGP/ Public Health England levels for 2017/18. The rolling average line (blue) is based on 5 year historic RCGP RSC level.

(C) Common Cold & URTI NOS : national incidence rate 2018 by age group***(D) Infectious Intestinal Diseases : national incidence rate 2018 by age group***

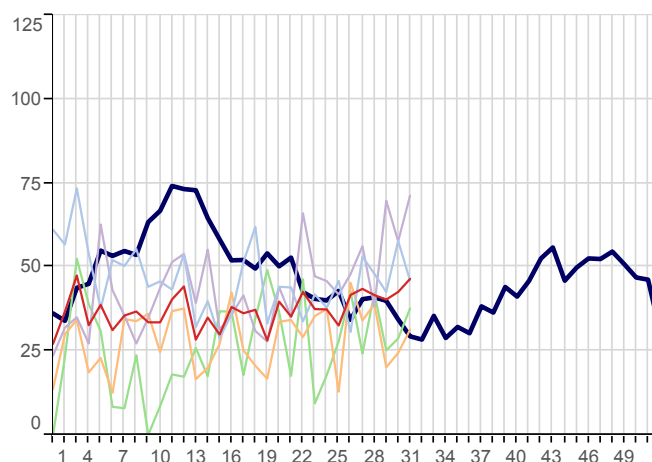
1. Water & Food Borne Disorders:

5yr Avg National London North South Midlands And East

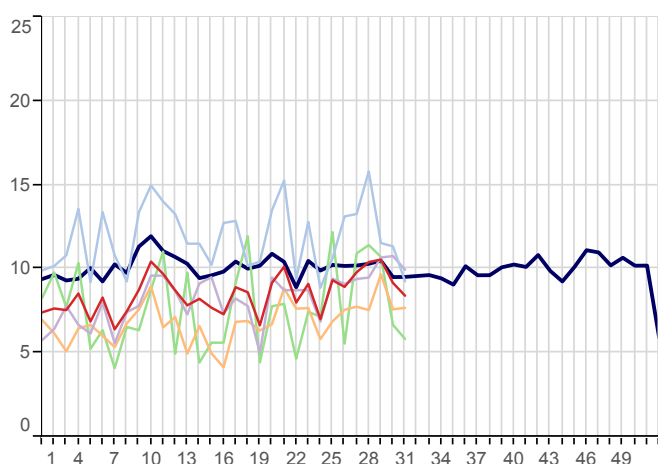
Infectious Intestinal Disease (ICD10: A00-A09)
Weekly incidence (per 100,000 **all ages**) by regions
for 2018 compared with 5 year average



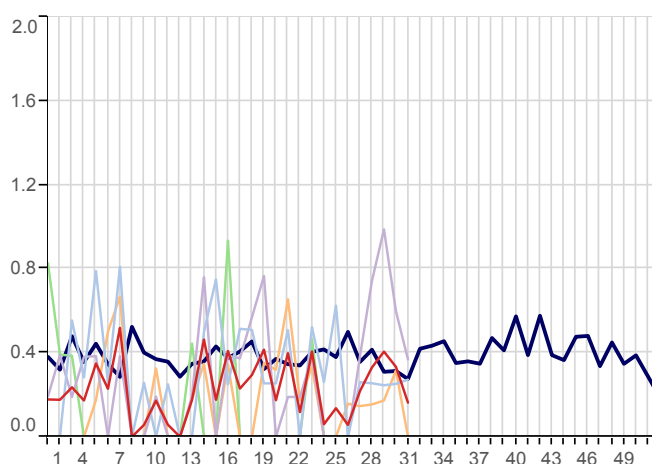
Infectious Intestinal Disease (ICD10: A00-A09)
Weekly incidence (per 100,000 **0-4 years**) by regions
for 2018 compared with 5 year average



Non-Infective Enteritis & Colitis (ICD10: K50-K52)
Weekly incidence (per 100,000 **all ages**) by region
for 2018 compared with 5 year average



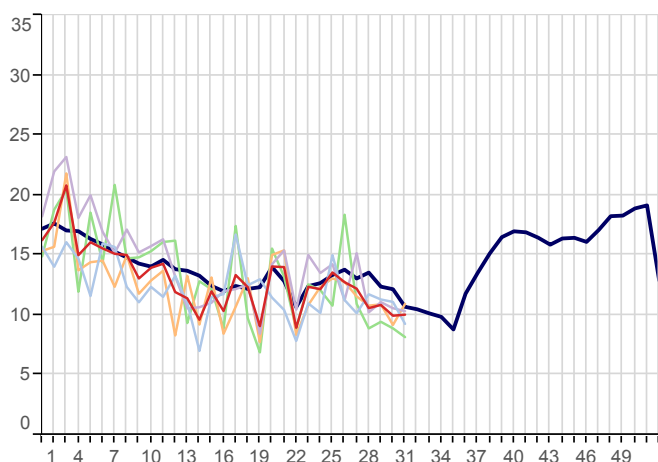
Viral Hepatitis (ICD10: B15-B19)
Weekly incidence (per 100,000 **all ages**) by region
for 2018 compared with 5 year average



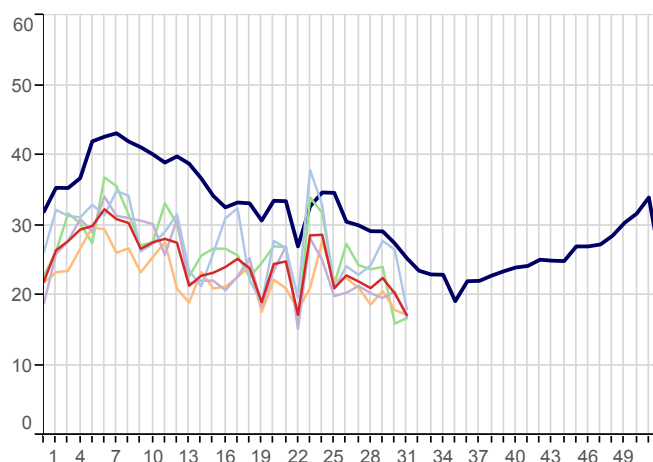
2. Environmentally Sensitive Disorders:

■ 5yr Avg
 ■ National
 ■ London
 ■ North
 ■ South
 ■ Midlands And East

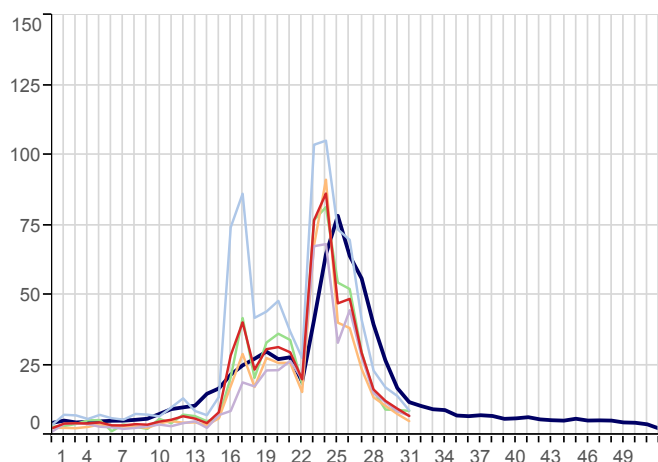
Asthma (ICD10: J45-J46)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



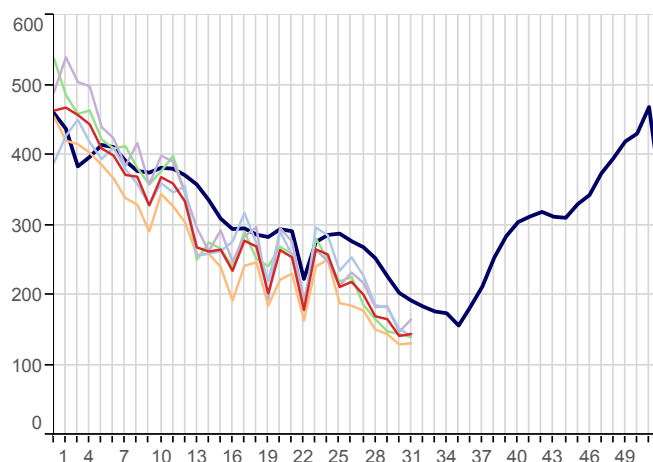
Disorders of Conjunctiva (ICD10: H10-H13)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



Hayfever/Allergic Rhinitis (ICD10: J30)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



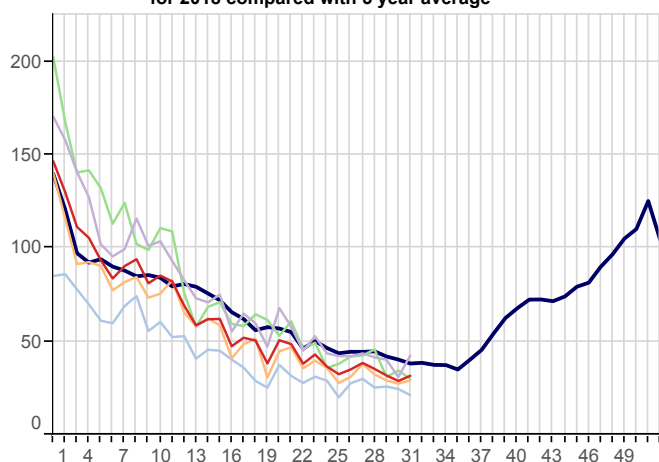
Symptoms involving Respiratory & Chest (ICD10: R05-R07,R09)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



3. Respiratory Infections:

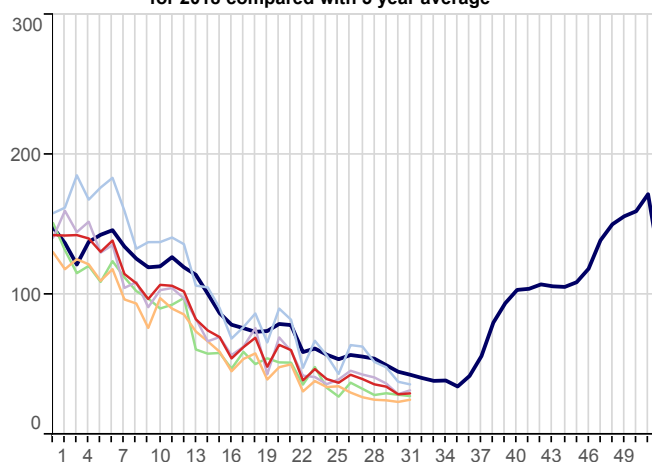
5yr Avg National London North

Acute Bronchitis (ICD10: J20-J21,J40)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average

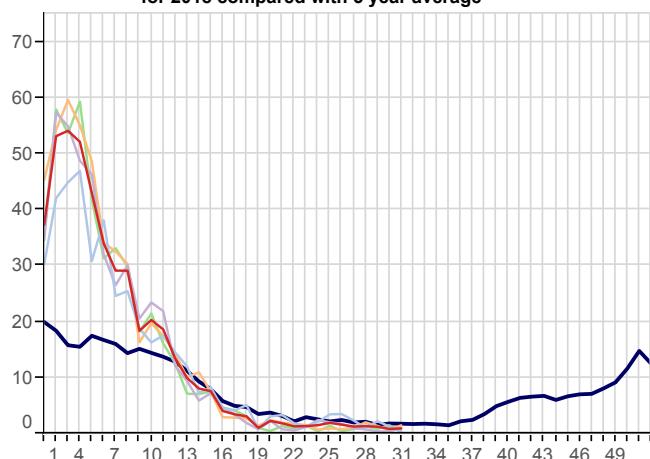


South Midlands And East

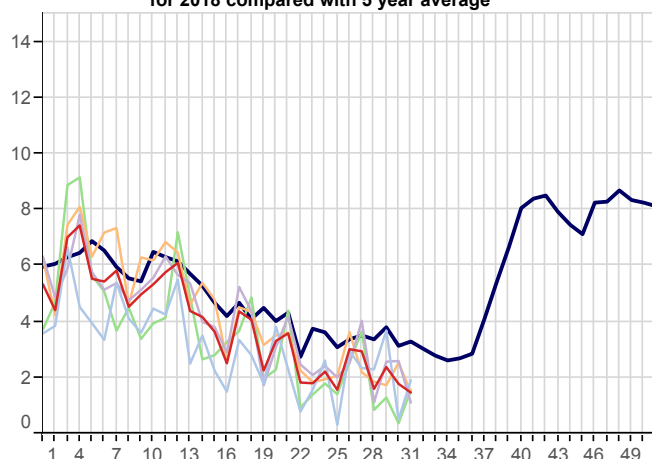
Common Cold (ICD10: J00,J06)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



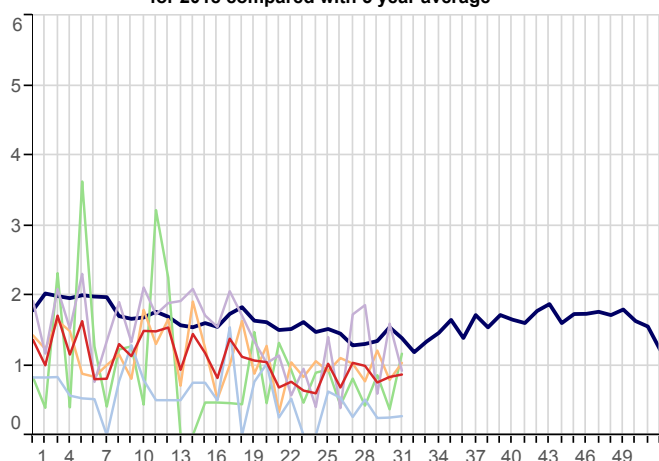
Influenza-Like Illness (ICD10: J09-J11)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



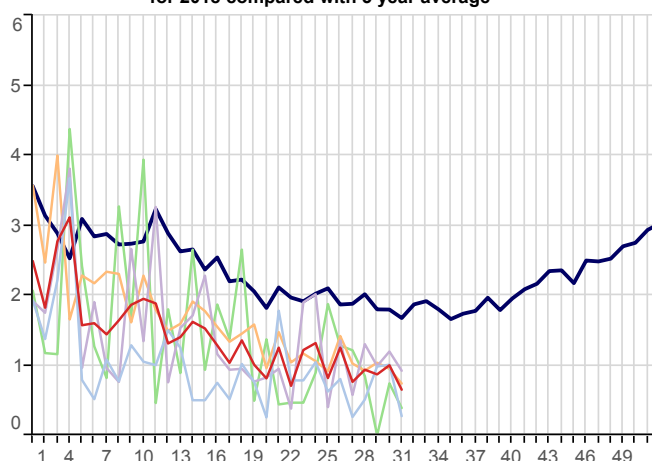
Acute Laryngitis/Tracheitis (ICD10: J04)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



Pleurisy (ICD10: R091)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



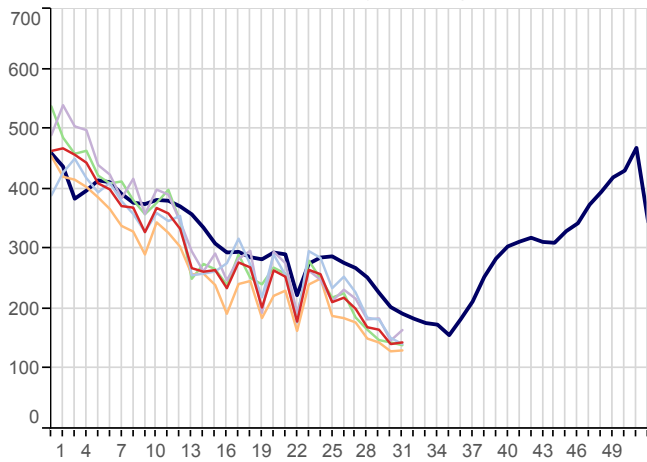
Pneumonia/Pneumonitis (ICD10: J12-J18)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



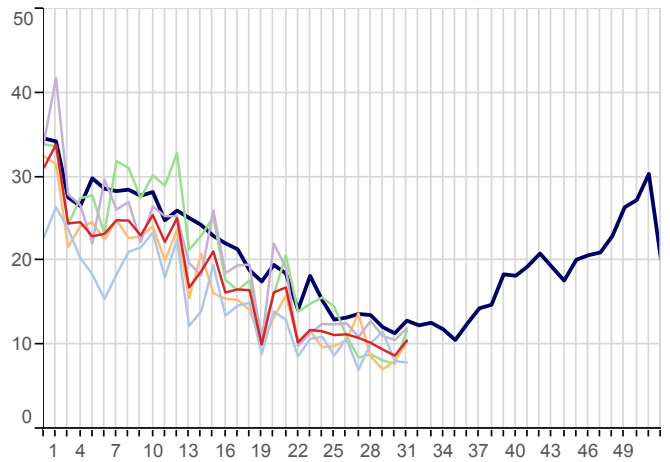
3. Respiratory Infections(Continued):

5yr Avg National London North South Midlands And East

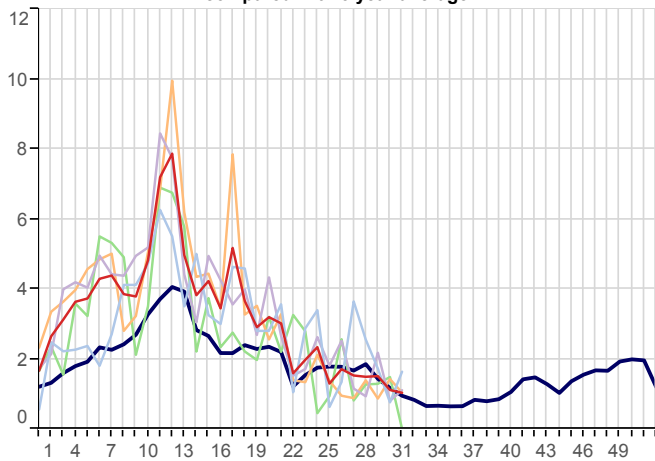
Respiratory System Diseases (ICD10: J00-J99)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



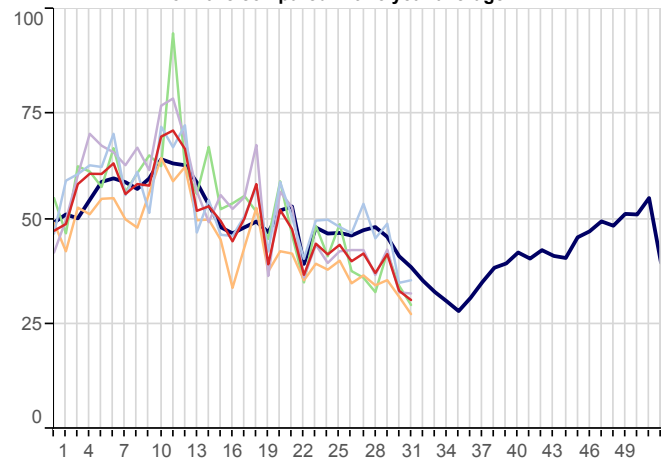
Acute Sinusitis (ICD10: J01)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



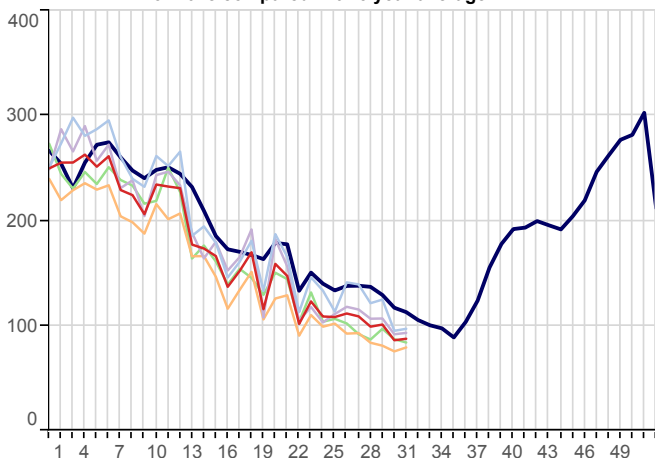
Strep Sore Throat, Scarletina and Peritonsillar Abscess (ICD10: A38,J02,J36)
Weekly incidence (per 100,000 all ages) by region for 2018
compared with 5 year average



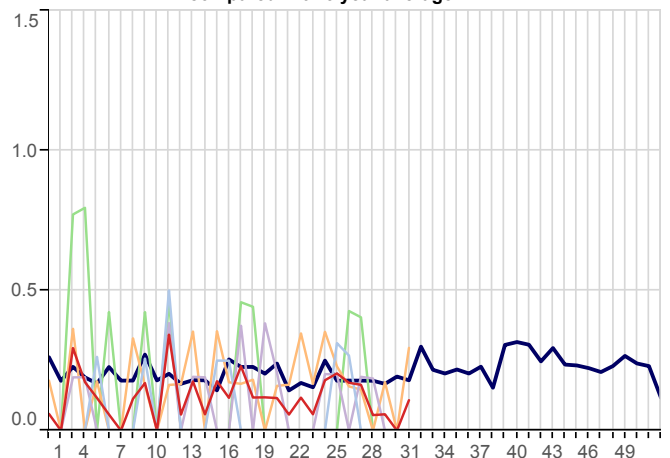
Acute Tonsillitis/Pharyngitis (ICD10: J02-J03)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



Upper Respiratory Tract Infections (URTI)(ICD10: J00-J06)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



Whooping Cough (ICD10: A37)
Weekly incidence (per 100,000 all ages) by region by region for 2018
compared with 5 year average



3. Respiratory Infections(Continued):

5yr Avg

National

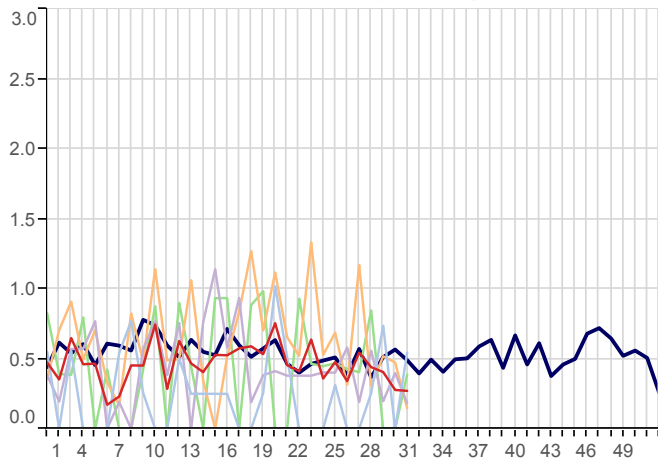
London

North

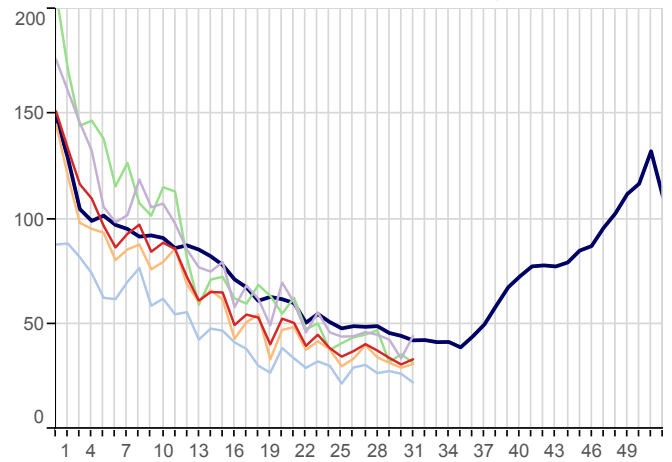
South

Midlands And East

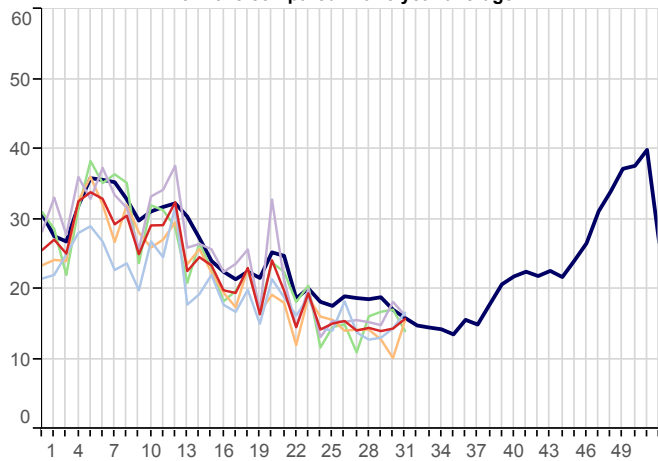
Infectious Mononucleosis (ICD10: B27)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



Lower Respiratory Tract Infections (LRTI)(ICD10: J20-J22)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



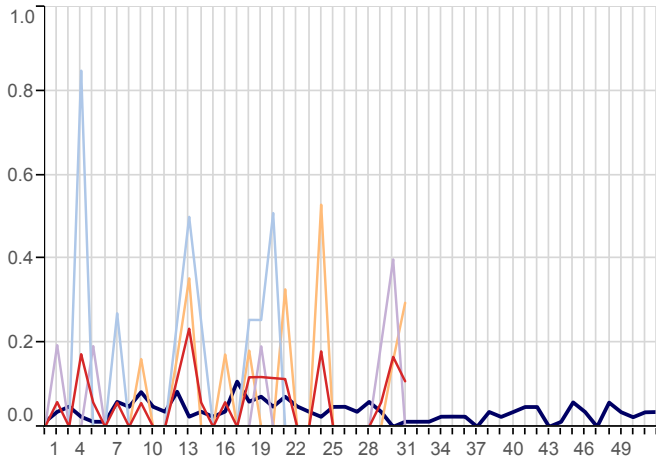
Acute Otitis Media (ICD10: H650-H651,H660,H669)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



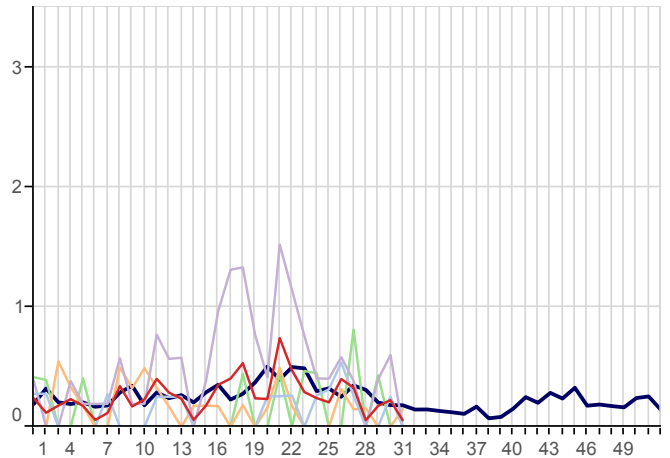
4. Vaccine Sensitive Disorders

5yr Avg National London North South Midlands And East

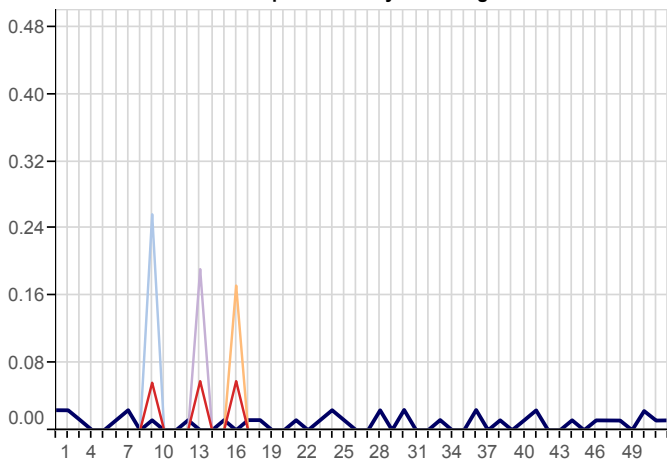
Measles (ICD10: B05)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



Mumps (ICD10: B26)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average

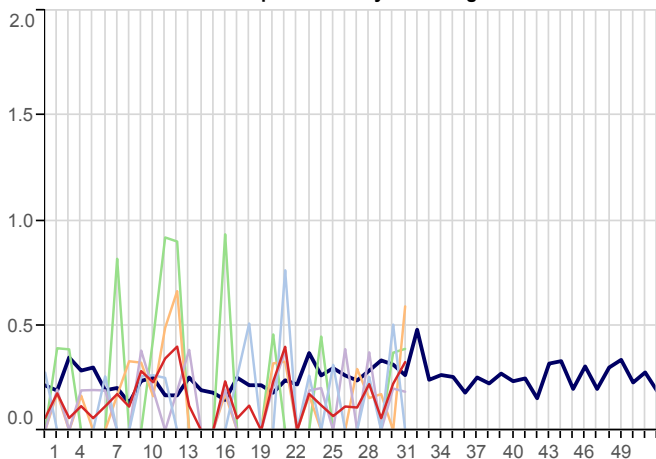


Rubella (ICD10: B06)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average

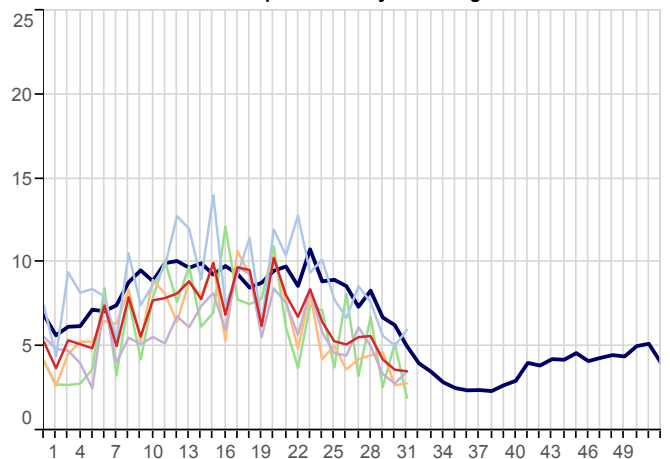


5. Skin Contagions

Bullous Dermatoses (ICD10: L10-L14)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



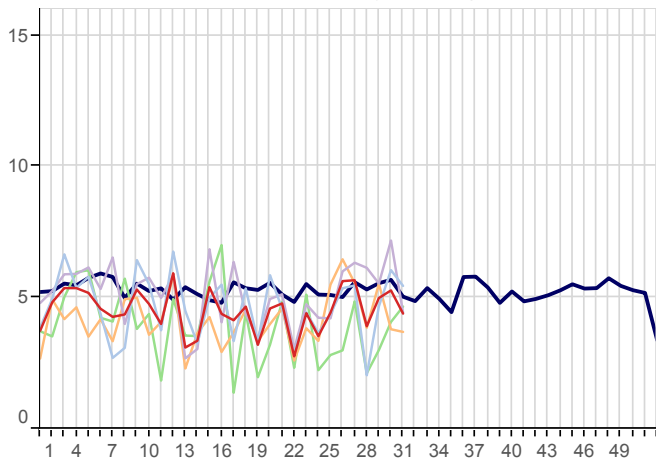
Chickenpox (ICD10: B01)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



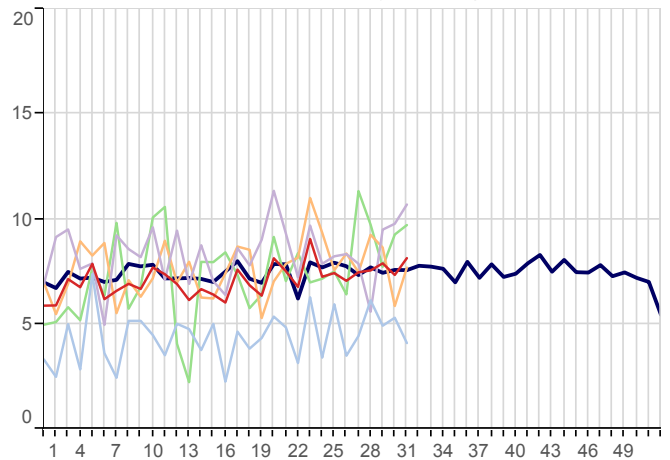
5. Skin Contagions (Continued)

5yr Avg National London North South Midlands And East

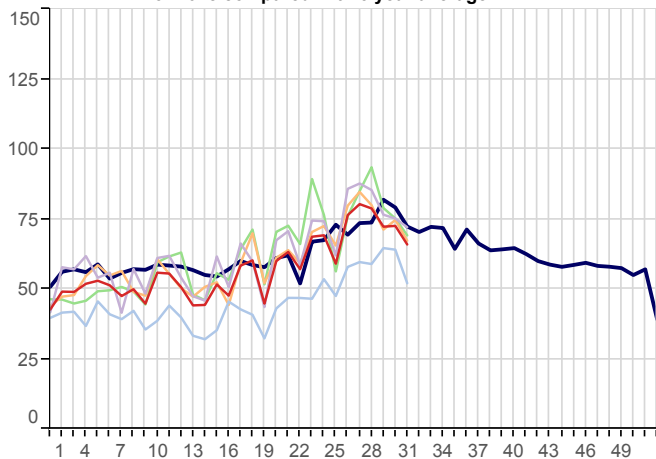
Herpes Simplex (ICD10: B00)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



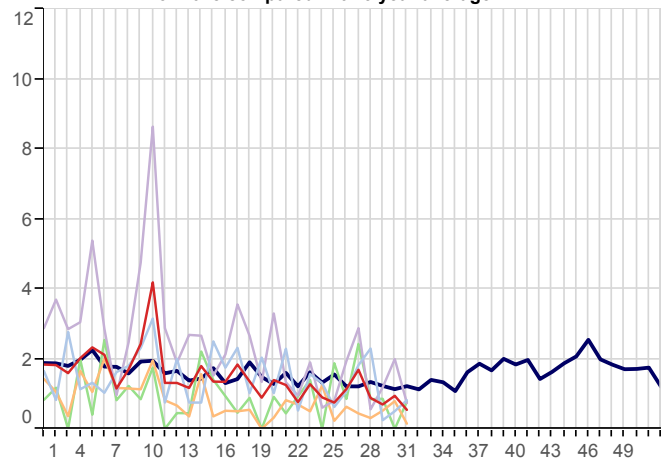
Herpes Zoster (ICD10: B02)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



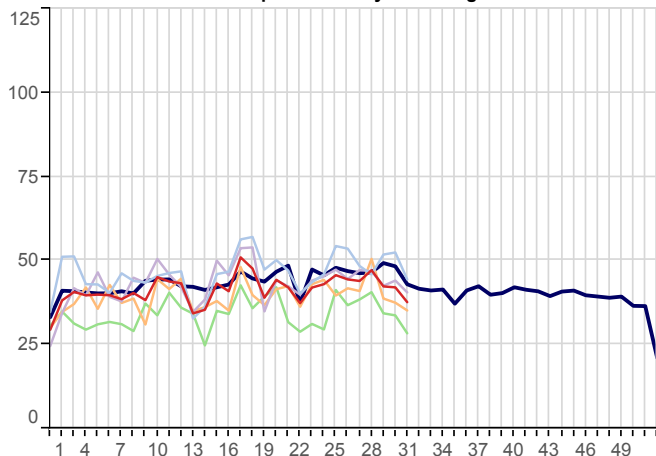
Infections of Skin & Subcutaneous Tissue (ICD10: L00-L08)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



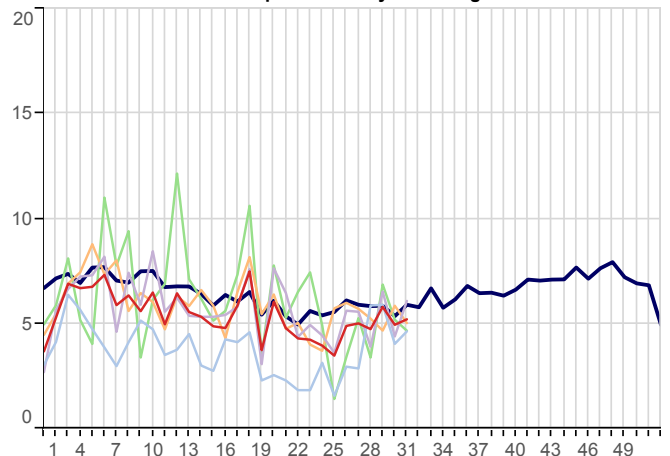
Scabies (ICD10: B86)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



Symptoms involving Skin & Oth Integument Tiss (ICD10: R20-R23)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



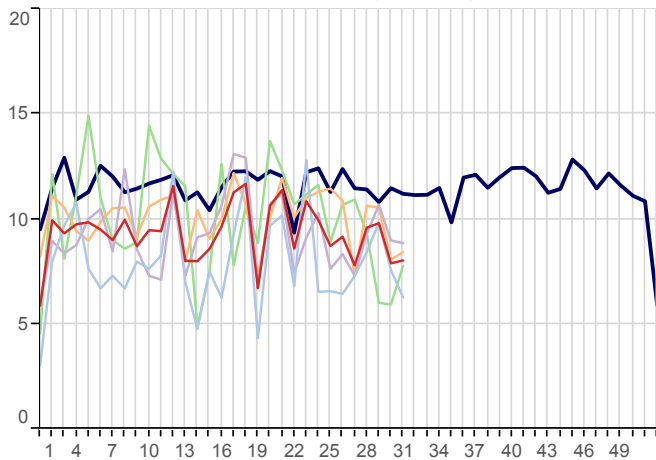
Impetigo (ICD10: L01)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



6. Disorders Affecting the Nervous System

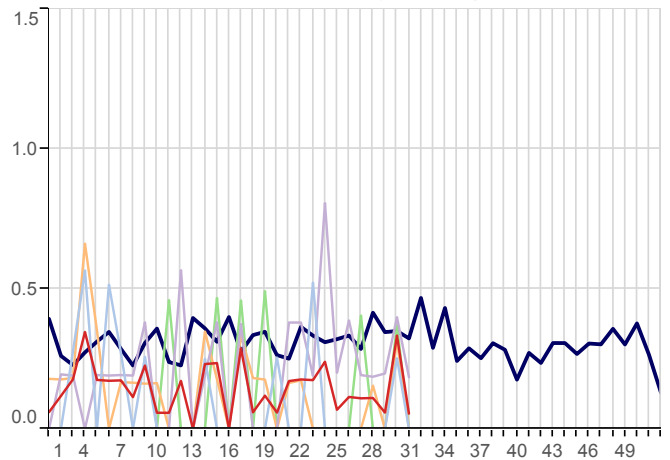
5yr Avg National London North

Disorders of The Peripheral Nervous System (ICD10: G50-G64,G70-G72)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average

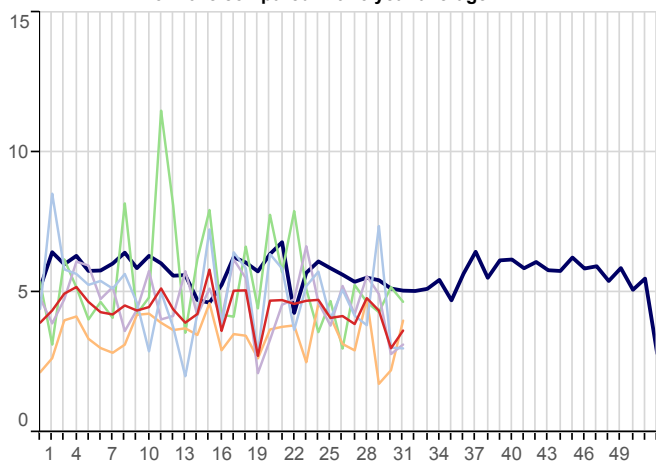


South Midlands And East

Meningitis/Encephalitis (ICD10: A170-A171,A390,A38-A85,A87,G00-G05)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average

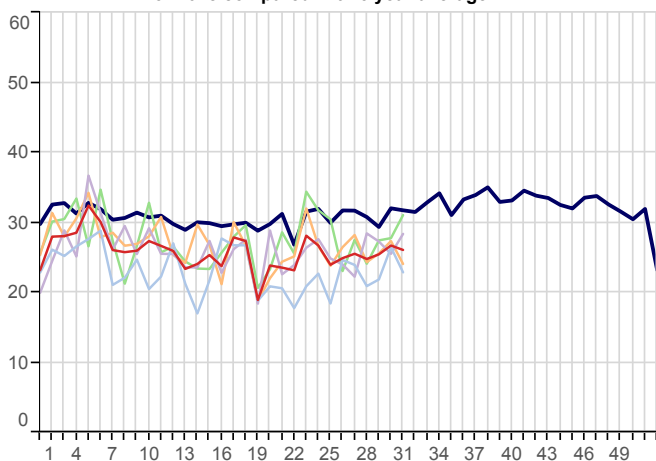


Symptoms Involving Nervous & Musculoskeletal (ICD10: R25-R29)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



7. Genitourinary System Disorders

Urinary Tract Infection/Cystitis (ICD10: N30,N390)
Weekly incidence (per 100,000 all ages) by region
for 2018 compared with 5 year average



8. Tabular Summary by Disease

Disease Name	Week beginning Week ending	30/07/2018 05/08/2018		23/07/2018 29/07/2018		16/07/2018 22/07/2018		09/07/2018 15/07/2018	
		Rate	Numer	Rate	Numer	Rate	Numer	Rate	Numer
Acute Bronchitis		31.5	582	28.8	518	31.8	548	35.2	640
Allergic Rhinitis		6.7	124	9.3	168	12.1	209	16.2	294
Asthma		10.0	185	9.9	179	10.8	187	10.6	192
Bullous Dermatoses		0.3	6	0.2	4	0.1	1	0.2	4
Chickenpox		3.5	65	3.6	65	4.2	73	5.6	102
Common Cold		29.5	544	28.9	520	34.3	592	36.0	653
Conjunctival Disorders		17.1	316	20.2	364	22.4	387	21.0	381
Herpes Simplex		4.4	81	5.3	95	5.0	86	3.9	71
Herpes Zoster		8.1	150	7.3	132	7.9	136	7.5	137
Impetigo		5.2	96	4.9	89	5.8	100	4.7	86
Infectious Mononucleosis		0.3	5	0.3	5	0.4	7	0.4	8
Influenza-like illness		0.9	17	0.8	15	1.2	21	1.3	24
Infectious Intestinal Diseases		9.1	167	7.8	140	9.2	158	8.9	161
Laryngitis and Tracheitis		1.5	27	1.8	32	2.4	41	1.6	29
Lower Respiratory Tract Infections		33.1	611	30.6	552	33.8	583	37.3	677
Measles		0.1	2	0.2	3	0.1	1	0.0	0
Meningitis and Encephalitis		0.1	1	0.3	6	0.1	1	0.1	2
Mumps		0.1	1	0.2	4	0.2	3	0.1	1
Non-infective Enteritis and Colitis		8.4	155	9.2	165	10.5	182	10.4	189
Otitis Media Acute		15.7	290	14.3	258	14.0	241	14.4	262
Peripheral Nervous Disease		8.0	148	7.9	142	9.8	169	9.6	174
Pleurisy		0.9	16	0.8	15	0.8	13	1.0	18
Pneumonia and Pneumonitis		0.7	12	1.0	18	0.9	15	0.9	17
Respiratory System Diseases		144.0	2,657	141.3	2,545	165.2	2,851	169.3	3,075
Rubella		0.0	0	0.0	0	0.0	0	0.0	0
Scabies		0.5	10	0.9	17	0.7	12	0.9	16
Sinusitis		10.5	194	8.7	157	9.4	163	10.2	186
Skin and Subcutaneous Tissue Infections		65.9	1,215	72.5	1,306	72.2	1,246	78.7	1,430
Strep Throat and Peritonsillar Abscess		1.0	19	1.1	20	1.5	26	1.5	27
Symptoms involving musculoskeletal		3.6	67	3.0	54	4.3	75	4.8	87
Symptoms involving Respiratory and Chest		14.4	266	14.9	269	14.0	241	14.1	256
Symptoms involving Skin and Integument Tissues		37.6	694	42.0	757	42.3	730	47.1	856
Tonsillitis and acute Pharyngitis		30.7	566	32.9	592	41.6	718	37.1	674
Upper Respiratory Tract Infections		87.4	1,613	86.0	1,549	101.0	1,742	98.9	1,797
Urinary Tract Infections		26.1	481	26.7	481	25.4	439	24.8	450
Viral Hepatitis		0.2	3	0.3	6	0.4	7	0.3	6
Whooping Cough		0.1	2	0.0	0	0.1	1	0.1	1
Practice Count		175		173		167		171	
Denom		1,844,961		1,801,283		1,725,493		1,816,156	

FURTHER INFORMATION:

About the report

Summer focus

The first two pages of data within this report focus on the weekly incidence rates of Influenza-Like Illness, Allergic Rhinitis, Common Cold, and Infectious Intestinal Diseases.

Rate calculation

Each weekly incidence rate is presented per 100,000 population. All presentations are for males and females, and for all age groups, unless otherwise stated.

The denominator used for this report is taken from our most recent extract of data from GP practice systems, and includes all patients currently registered with eligible practices. The denominator varies week-on-week as patients register and deregister; it may also be the case that all patients from an individual practice are excluded because of problems with the data extraction from that practice in a specific week. Patients who have withheld consent for data-sharing are excluded.

In addition to the national rate, we present data for the four NHS England regions: North; Midlands and East; South; and London.

Five-year averages

Weekly rates are set against the five-year average, calculated from data for the calendar years 2013-2017. Previously we reported against a ten-year average. The change to a five-year average was made because longer-term trends in the incidence of disease have led to weekly rates for certain diseases becoming increasingly divergent from their ten-year average. The use of five-year averages lessens this effect and enables more meaningful comparison.

Threshold calculation for Influenza-Like Illness (ILI)

We are now using the Moving Epidemic Method (MEM) to calculate threshold and intensity levels for Influenza-Like Illness. MEM works by identifying seasonal epidemic peaks and then calculates thresholds and intensity levels based on the pre and post epidemic values. This allows us to report the severity of ILI against multiple thresholds, rather than a simple comparison with the five-year average as the wide variation in ILI year on year, especially during the seasonal peak, makes the average less representative.

This methodology is used by the European Centre for Disease Prevention and Control to standardise reporting of influenza activity across Europe, and is also in use by Public Health England. Full details of the methodology can be found in: Vega et al. (2012) Influenza surveillance in Europe: establishing epidemic thresholds by the moving epidemic method. *Influenza and Other Respiratory Viruses* 7(4), 546–558. For ease of graphical representation, the final threshold (Very High) is not included in Graph A, page 2.

About the Royal College of General Practitioners (RCGP) Research and Surveillance Centre (RSC)

What we do

The RCGP RSC was established in 1957, with the current name in use since 2009. The Centre is an internationally renowned source of information, analysis, and interpretation concerning the onset, patterns, relevance and trends over time of morbidity in primary care. The RSC is an active research and surveillance unit that collects and monitors data; its most important research is the surveillance of influenza and the monitoring of vaccine effectiveness.

The RSC data and analytics hub is housed in the Section of Clinical Medicine and Ageing at the University of Surrey.

Further information about the RSC can be found on our website:

<http://www.rcgp.org.uk/clinical-and-research/our-programmes/research-and-surveillance-centre.aspx>

Our data extraction process and information governance

Data are extracted twice weekly from practice systems by Apollo Medical Software Solutions on the RCGP's behalf. Patients who have withheld consent for data sharing are excluded from the extraction process.

Data are pseudonymised as close to source as possible. Data are held on secure servers at the RCGP data and analytics hub in the Section of Clinical Medicine and Ageing at the University of Surrey. Both Apollo and the University of Surrey are registered and compliant with the Data Protection Act and fully compliant with all relevant NHS Digital data information governance best practice.

What the data is used for

The RCGP RSC has been providing reports weekly about health and disease, called the Weekly Returns Service (WRS) since 1964. The WRS monitors the number of patients consulting with new episodes of illness classified by diagnosis in England, and provides weekly incidence rates per 100,000 population for these new episodes of illness. It is the key primary care element of the national disease monitoring systems run by Public Health England. The bulletin can be found at the following URL:

<https://www.gov.uk/government/publications/syndromic-surveillance-summary>

In addition to the WRS, the data is used for other research studies. Any other uses of the data for research follow ethical approval from the Health Research Authority (HRA), and, where relevant, HRA Confidential Advisory Group (CAG) advice that further approval is not needed. Full details can be found on our website:

<http://www.rcgp.org.uk/clinical-and-research/our-programmes/research-and-surveillance-centre.aspx>

For further information

For further information about the work of the RSC, or if you would like to be included on our email notification list, please contact:

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