



Royal College of
General Practitioners
Research and Surveillance Centre

RSC Communicable and Respiratory Disease Report for England

Key Statistics:

Week Number/Year.....22/2017
Week Starting - Ending.....29/05/2017 - 04/06/2017
No. of Practices.....146
Population.....1442317

National (England)

- **Allergic Rhinitis** : decreased from **25.7** in week 21 to **20.2** in week 22.
- **Asthma** : decreased from **15.3** in week 21 to **9.4** in week 22.
- **Common Cold** : decreased from **62.9** in week 21 to **43.0** in week 22.
- **Infectious Intestinal Diseases (IID)** : decreased from **9.5** in week 21 to **7.4** in week 22.
- **Respiratory System Diseases** : decreased from **259.7** in week 21 to **187.1** in week 22.

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

- **Allergic Rhinitis** : decreased from **36.1** in week 21 to **26.8** in week 22 in the London region, decreased from **18.6** in week 21 to **16.6** in week 22 in the North region, decreased from **24.3** in week 21 to **18.2** in week 22 in the South region, and decreased from **28.9** in week 21 to **23.0** in week 22 in the Midlands And East region.
- **Asthma** : decreased from **17.6** in week 21 to **8.8** in week 22 in the London region, decreased from **14.8** in week 21 to **8.9** in week 22 in the North region, decreased from **15.4** in week 21 to **8.3** in week 22 in the South region, and increased a little from **12.9** in week 21 to **13.4** in week 22 in the Midlands And East region.
- **Common Cold** : decreased from **87.8** in week 21 to **62.0** in week 22 in the London region, decreased from **61.6** in week 21 to **42.8** in week 22 in the North region, decreased from **54.5** in week 21 to **36.2** in week 22 in the South region, and decreased from **49.5** in week 21 to **32.6** in week 22 in the Midlands And East region.
- **Infectious Intestinal Diseases (IID)** : was unchanged at **10.3** in week 21 compared with **10.2** in week 22 in the London region, decreased from **10.9** in week 21 to **9.5** in week 22 in the North region, decreased from **9.8** in week 21 to **5.2** in week 22 in the South region, and decreased from **4.7** in week 21 to **4.2** in week 22 in the Midlands And East region.
- **Respiratory System Diseases** : decreased from **284.1** in week 21 to **190.8** in week 22 in the London region, decreased from **258.4** in week 21 to **190.6** in week 22 in the North region, decreased from **235.2** in week 21 to **169.2** in week 22 in the South region, and decreased from **278.2** in week 21 to **209.3** in week 22 in the Midlands And East region.

Comment:

Most conditions are at or below seasonally expected levels.

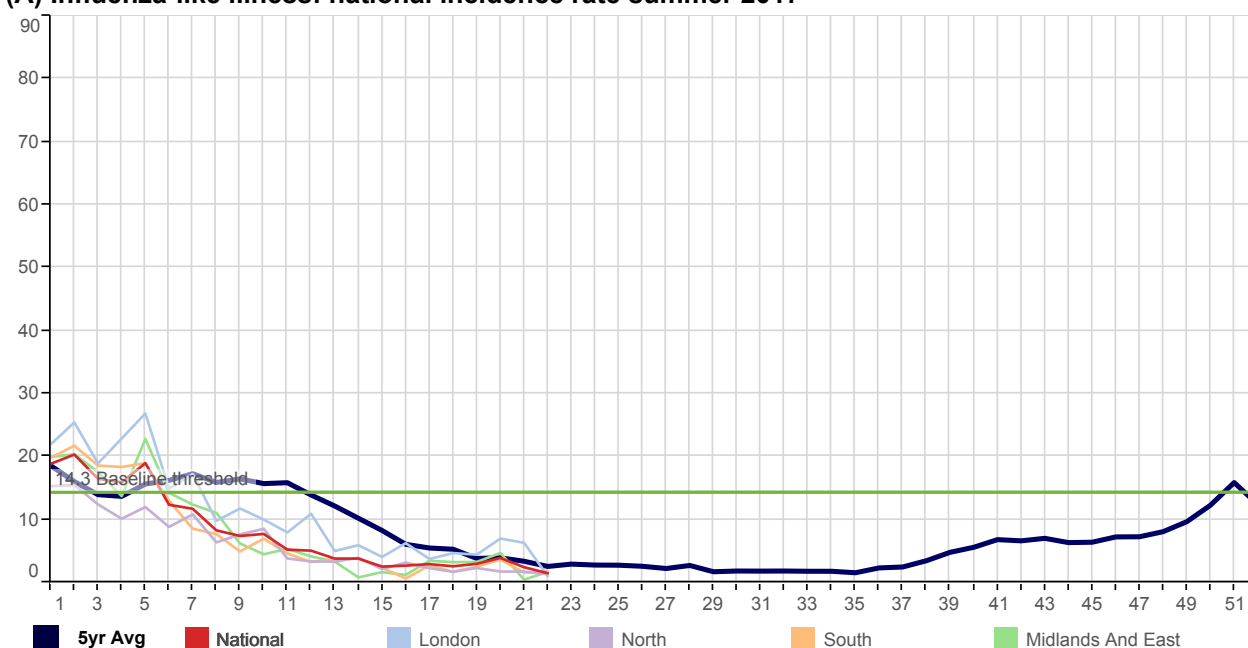
Spring/Summer Focus 2017

Please see page 13 for explanatory notes on the data.

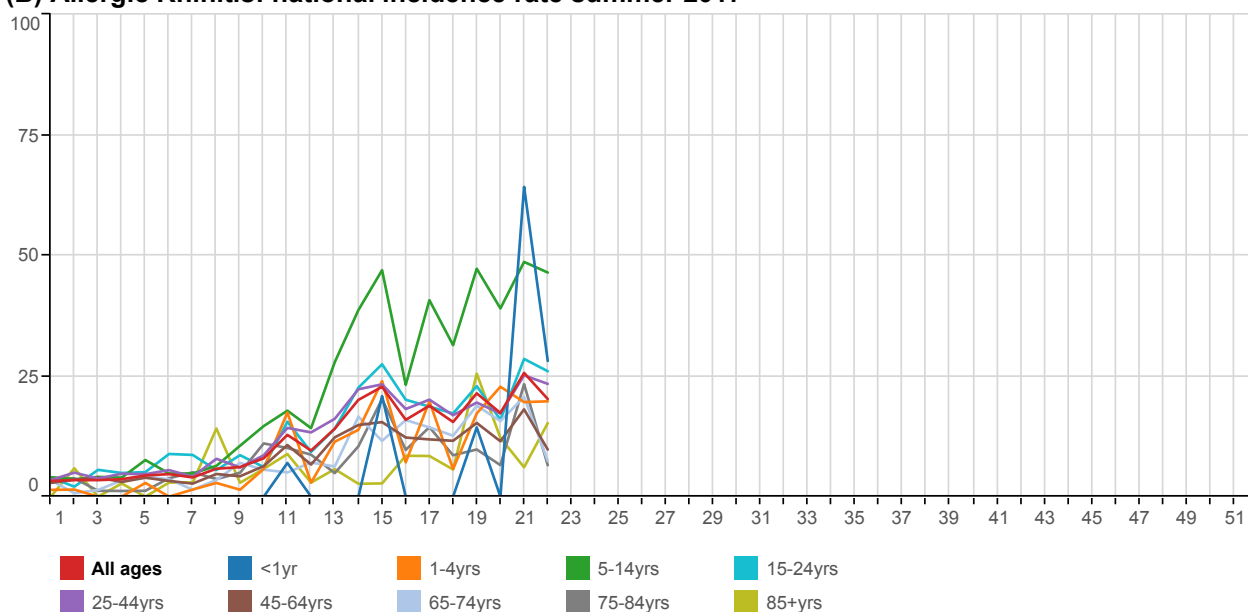
Weekly influenza-like illness and bronchitis incidence rates per 100,000 persons

	Bronchitis	Influenza-like illness		Influenza-like illness	Acute Bronchitis
<1yr	154.8	0.0	London	1.0	30.8
1-4yrs	50.2	1.5	North	1.3	44.5
5-14yrs	9.9	0.6	South	1.8	39.3
15-24yrs	14.9	1.6	Midlands And East	1.7	55.6
25-44yrs	20.5	1.0	National	1.5	41.9
45-64yrs	41.1	2.5			
65-74yrs	89.9	0.7			
75-84yrs	114.7	2.6			
85+yrs	201.3	0.0			
All ages	41.9	1.5			

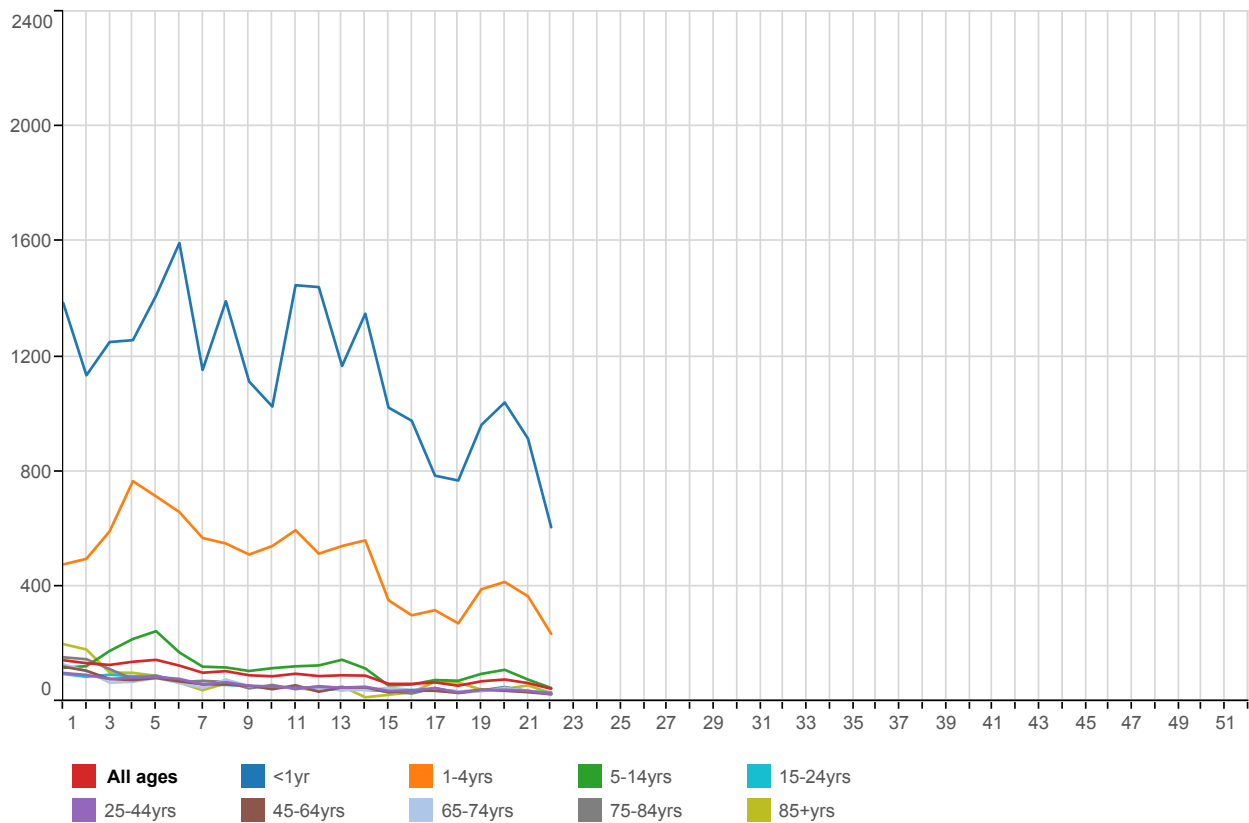
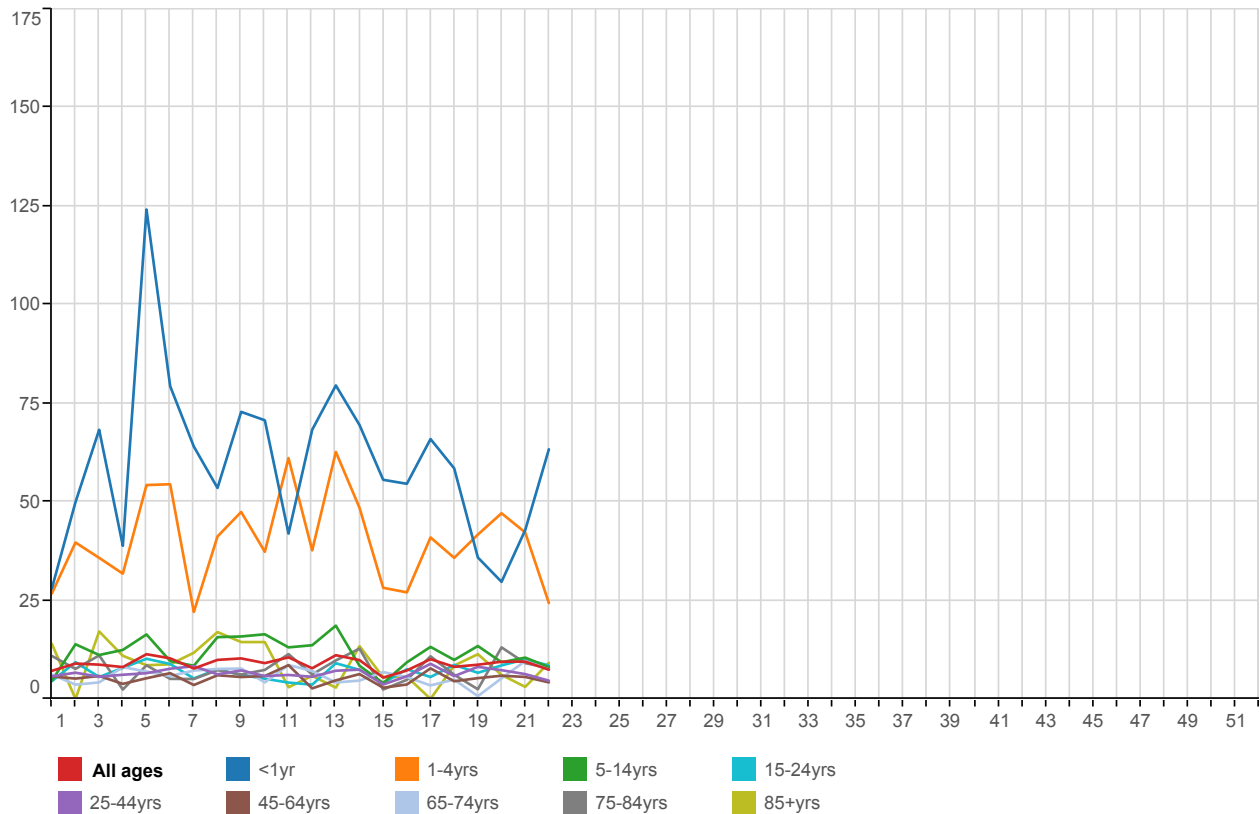
(A) Influenza-like illness: national incidence rate summer 2017*



(B) Allergic Rhinitis: national incidence rate summer 2017*



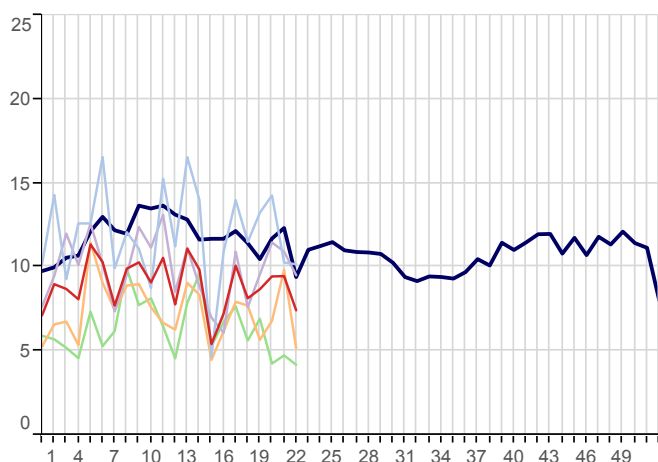
* The thresholds used are the agreed RCGP/ Public Health England levels for 2016. The rolling average line (blue) is based on 5 year historic RCGP RSC level.

(C) Common Cold : national incidence rate 2017 by age group***(D) Infectious Intestinal Diseases : national incidence rate 2017 by age group***

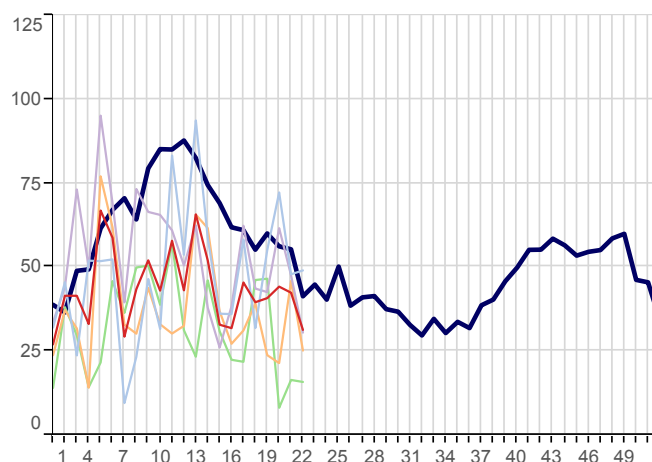
1. Water & Food Borne Disorders:

5yr Avg National London North South Midlands And East

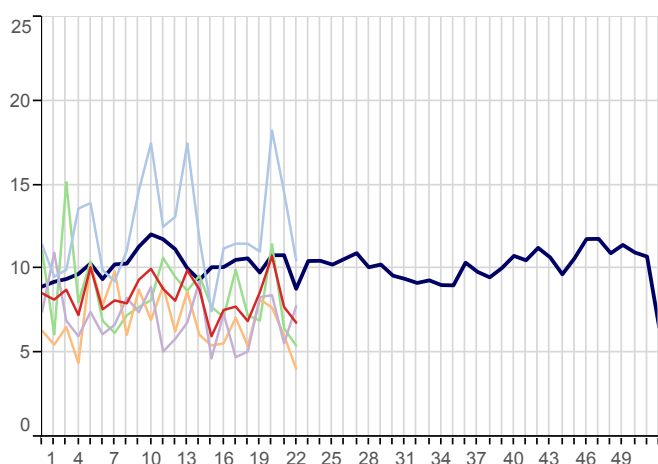
Infectious Intestinal Disease (ICD10: A00-A09)
Weekly incidence (per 100,000 **all ages**) by regions
for 2017 compared with 5 year average



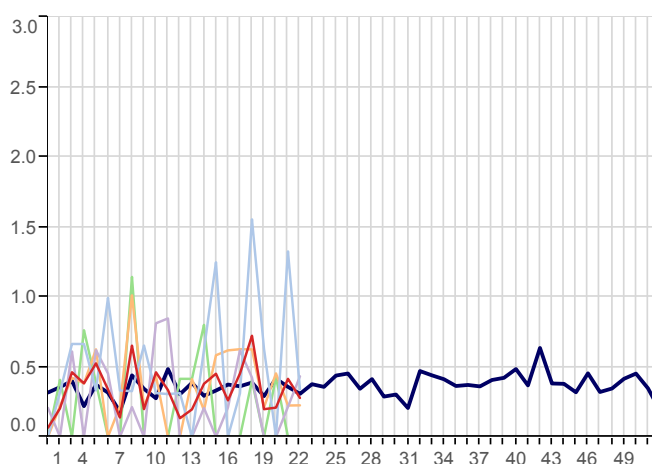
Infectious Intestinal Disease (ICD10: A00-A09)
Weekly incidence (per 100,000 **0-4 years**) by regions
for 2017 compared with 5 year average



Non-Infective Enteritis & Colitis (ICD10: K50-K52)
Weekly incidence (per 100,000 **all ages**) by region
for 2017 compared with 5 year average



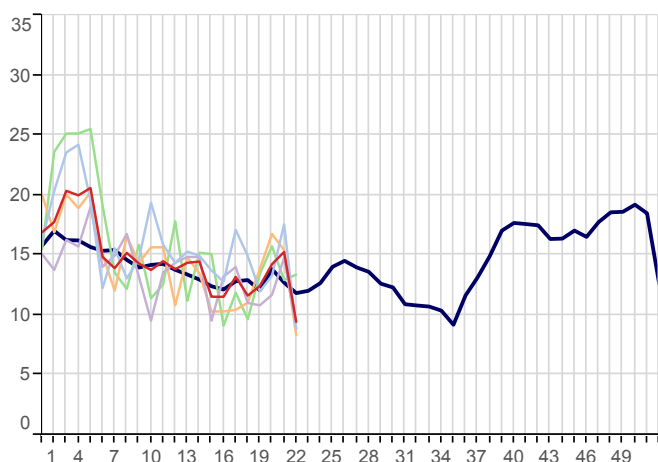
Viral Hepatitis (ICD10: B15-B19)
Weekly incidence (per 100,000 **all ages**) by region
for 2017 compared with 5 year average



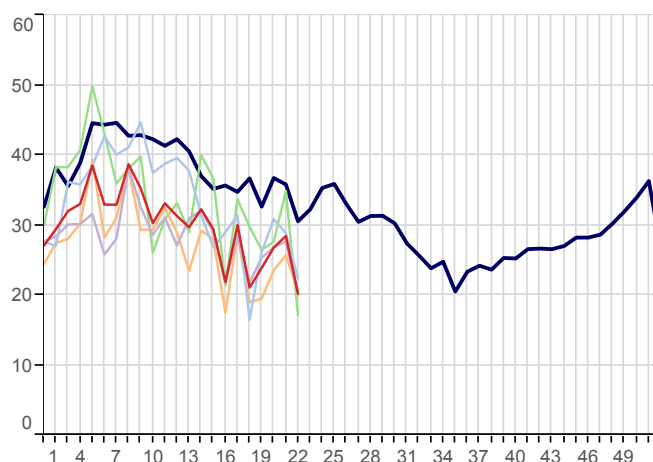
2. Environmentally Sensitive Disorders:

5yr Avg National London North South Midlands And East

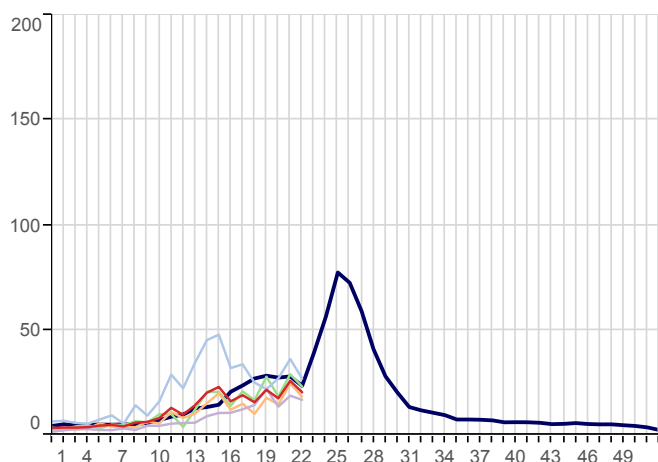
Asthma (ICD10: J45-J46)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



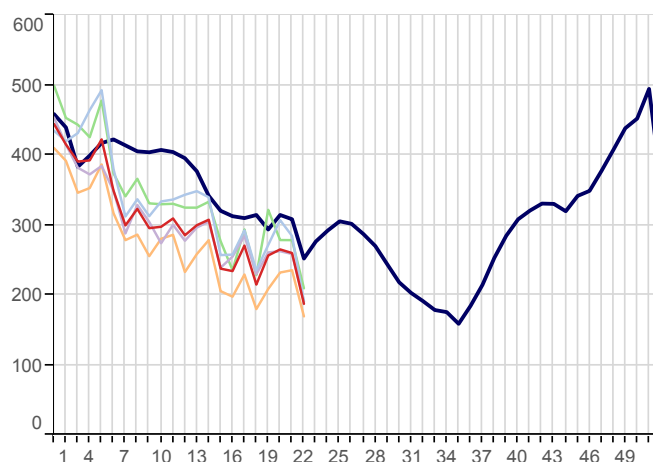
Disorders of Conjunctiva (ICD10: H10-H13)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



Hayfever/Allergic Rhinitis (ICD10: J30)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



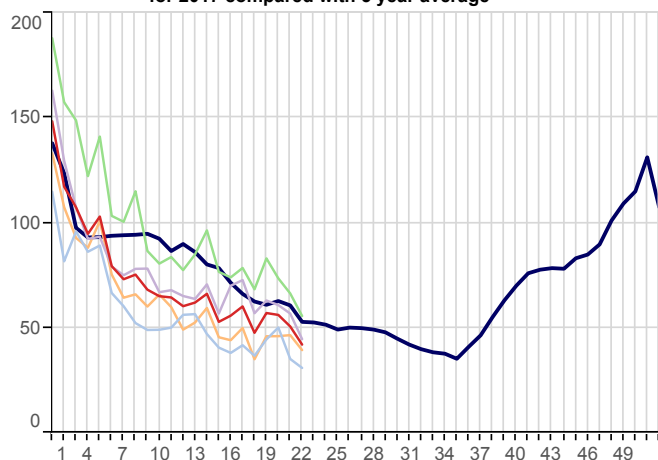
Symptoms involving Respiratory & Chest (ICD10: R05-R07,R09)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



3. Respiratory Infections:

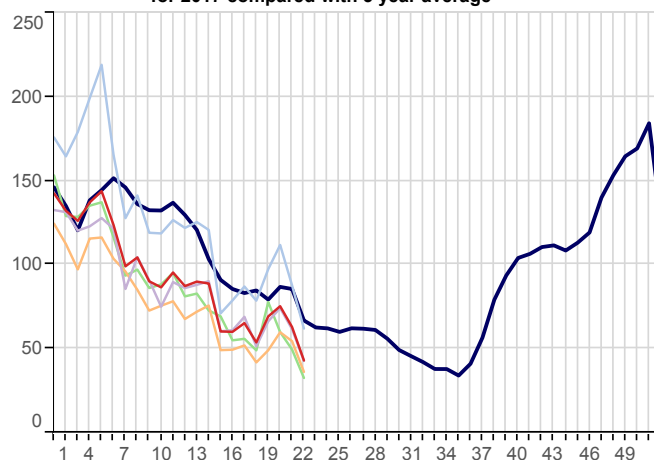
■ 5yr Avg ■ National ■ London ■ North

Acute Bronchitis (ICD10: J20-J21,J40)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average

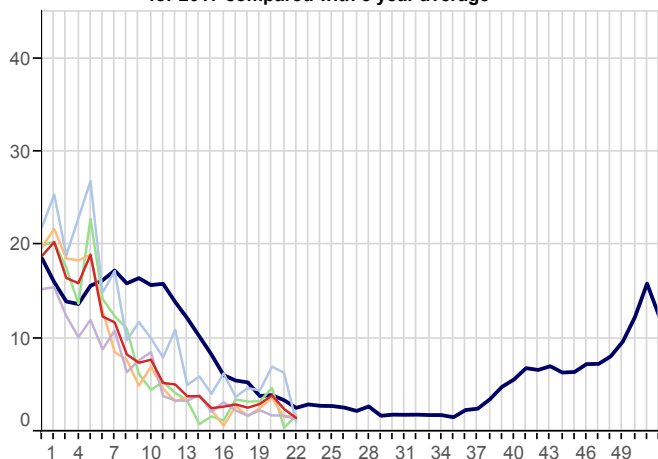


■ South ■ Midlands And East

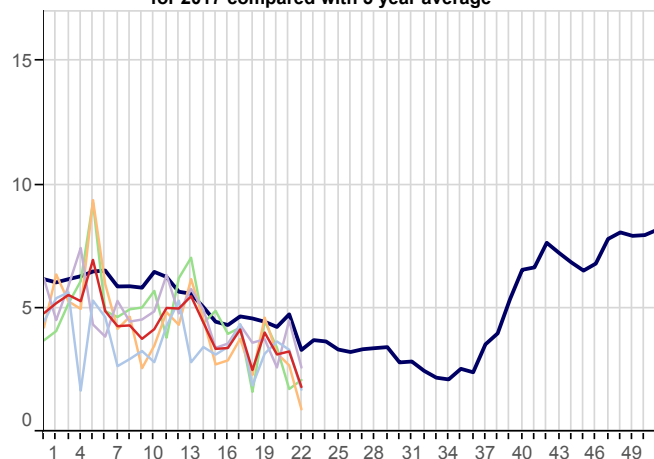
Common Cold (ICD10: J00,J06)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



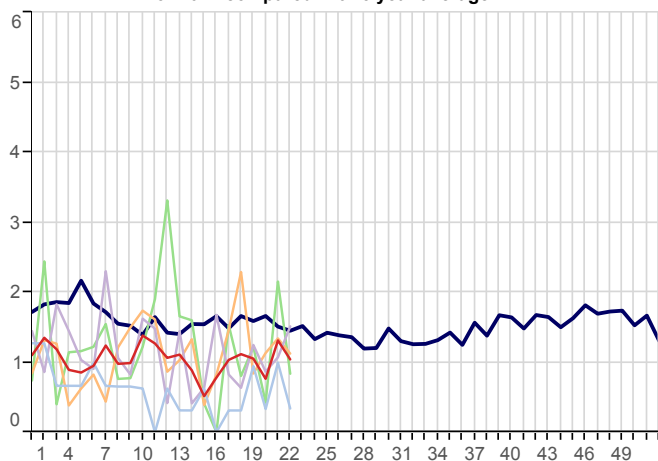
Influenza-Like Illness (ICD10: J09-J11)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



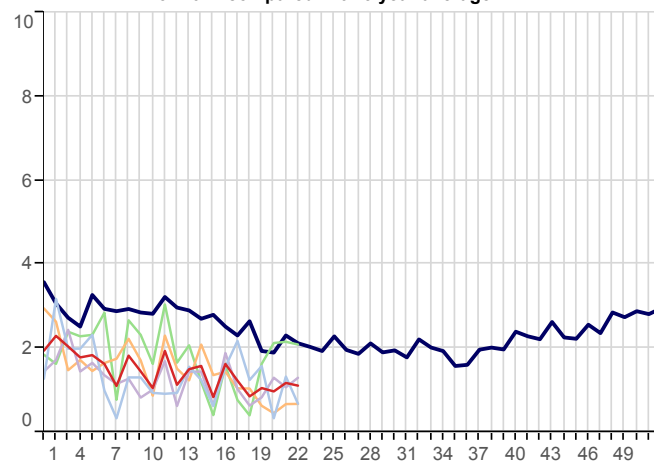
Acute Laryngitis/Tracheitis (ICD10: J04)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



Pleurisy (ICD10: R091)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



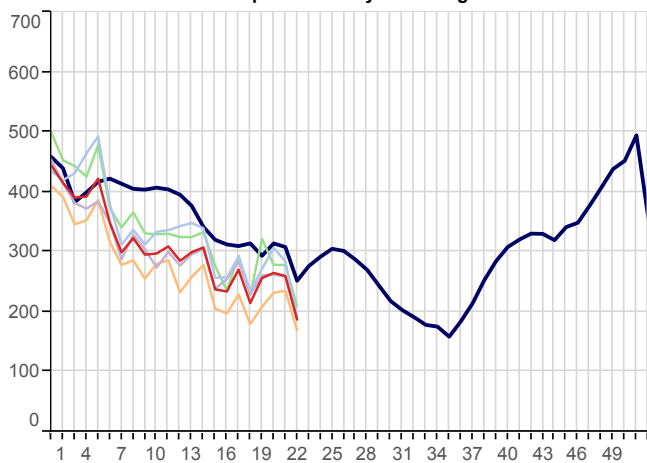
Pneumonia/Pneumonitis (ICD10: J12-J18)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



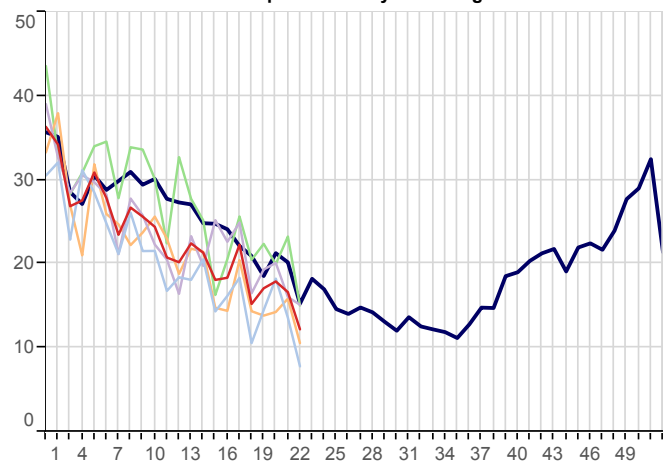
3. Respiratory Infections(Continued):

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

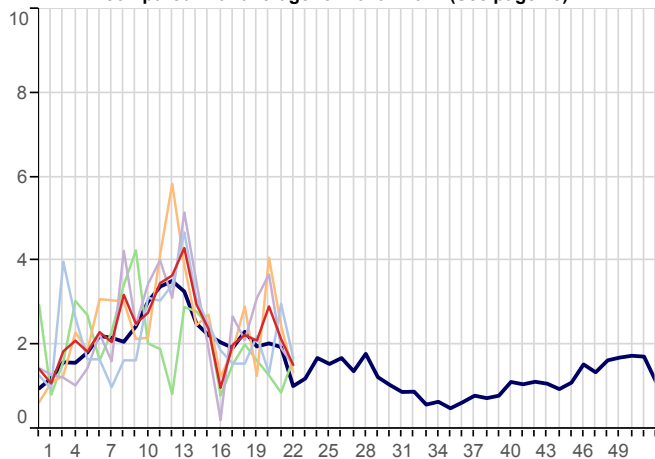
Respiratory System Diseases (ICD10: J00-J99)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



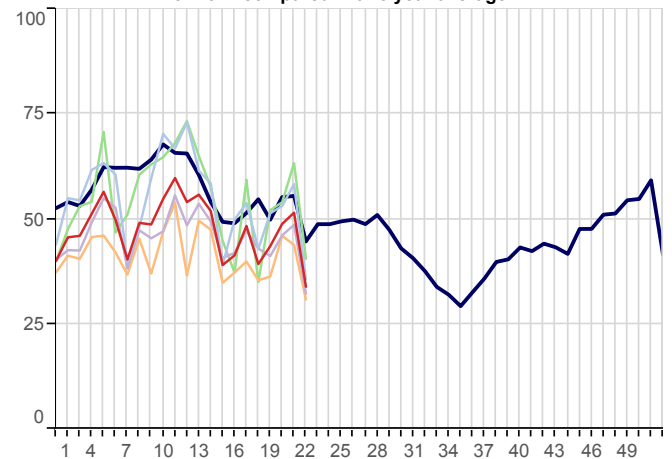
Acute Sinusitis (ICD10: J01)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



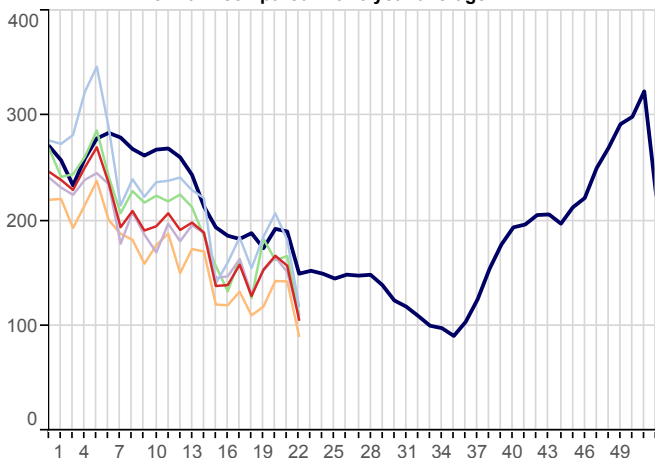
Strep Sore Throat, Scarletina and Peritonsillar Abscess (ICD10: A38,J020,J36)
Weekly incidence (per 100,000 all ages) by region for 2015
compared with average for 2010 - 2012 (See page 13)



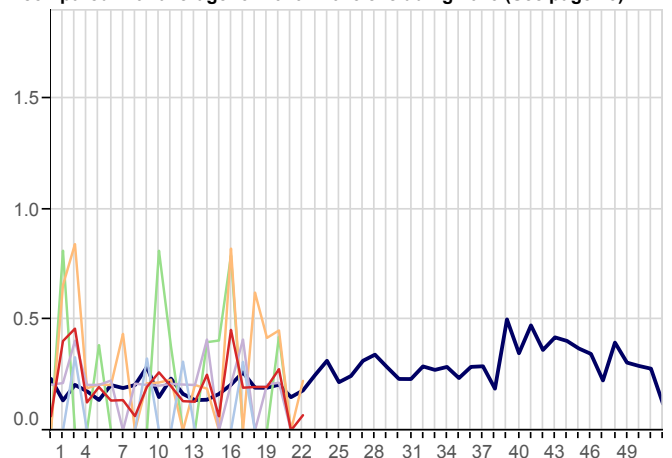
Acute Tonsillitis/Pharyngitis (ICD10: J02-J03)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



Upper Respiratory Tract Infections (URTI)(ICD10: J00-J06)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



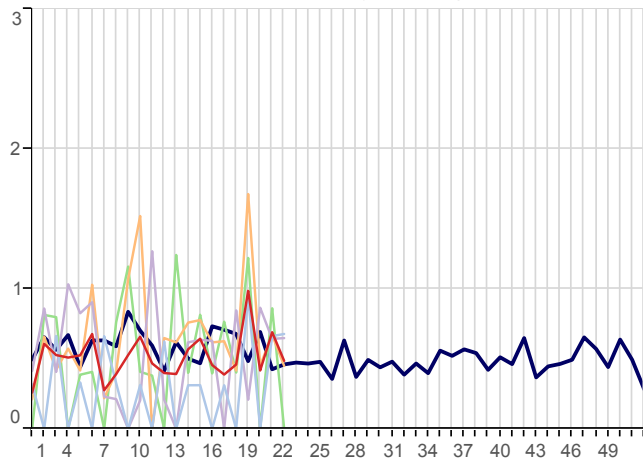
Whooping Cough (ICD10: A37)
Weekly incidence (per 100,000 all ages) by region for 2015
compared with average for 2010 - 2015 excluding 2013 (See page 13)



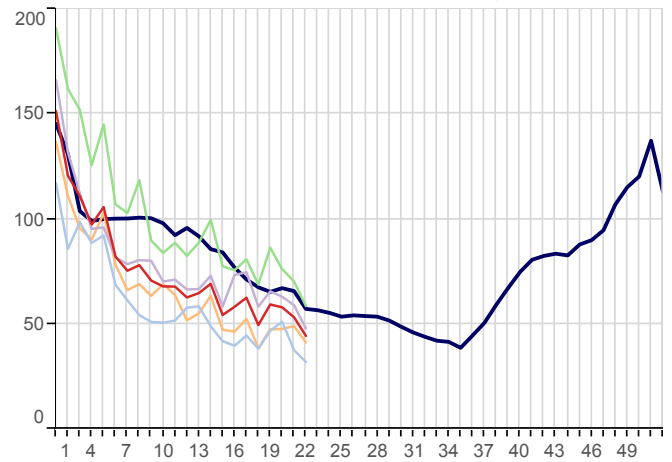
3. Respiratory Infections(Continued):

5yr Avg National London North

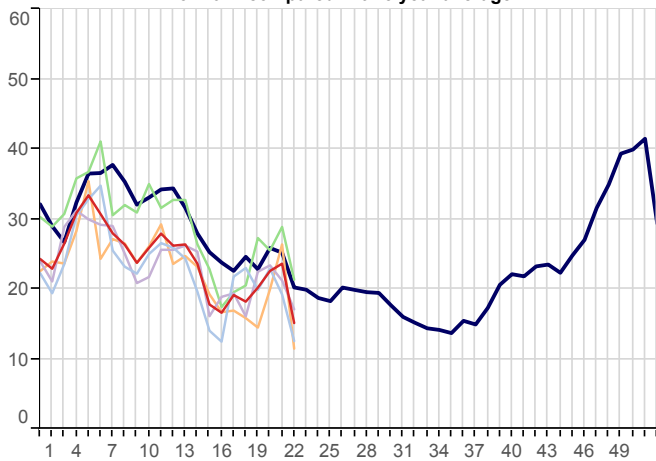
Infectious Mononucleosis (ICD10: B27)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



Lower Respiratory Tract Infections (LRTI)(ICD10: J20-J22)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



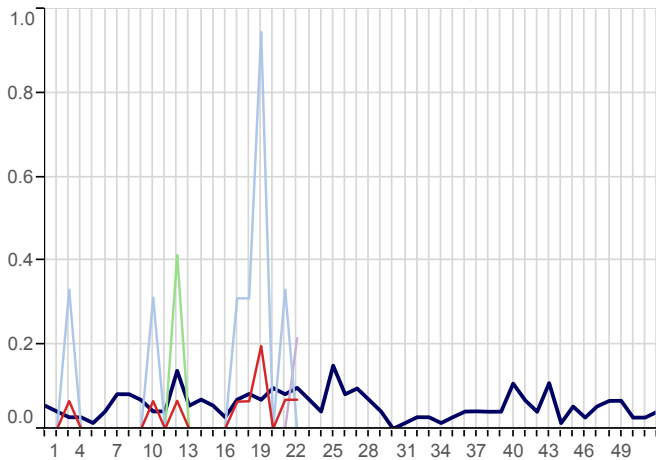
Acute Otitis Media (ICD10: H650-H651,H660,H669)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



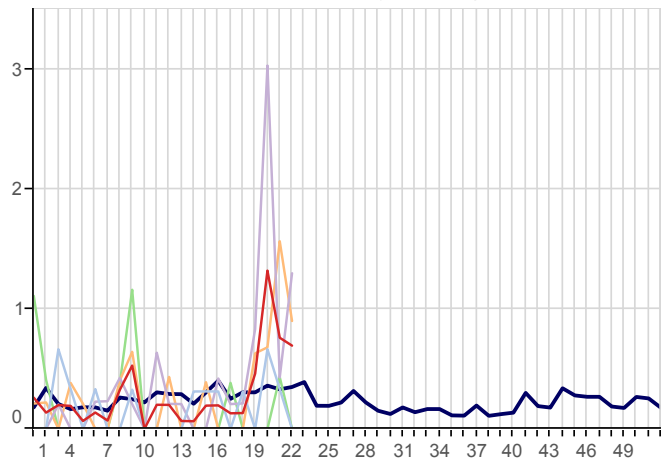
4. Vaccine Sensitive Disorders

5yr Avg National London North South Midlands And East

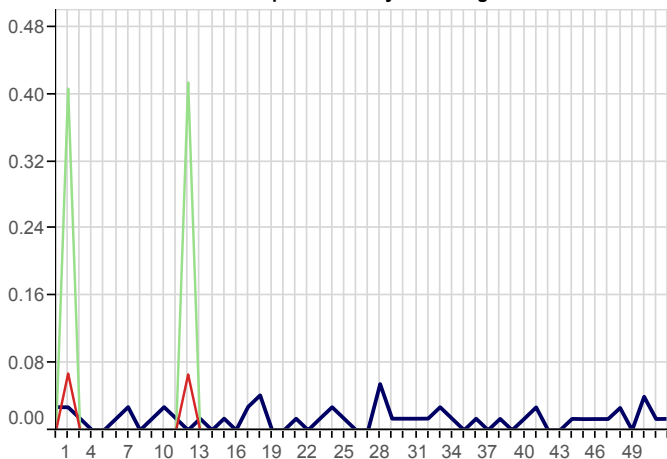
Measles (ICD10: B05)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



Mumps (ICD10: B26)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average

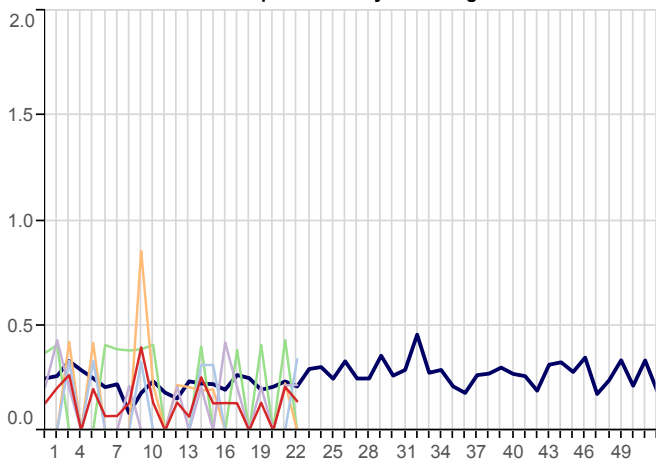


Rubella (ICD10: B06)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average

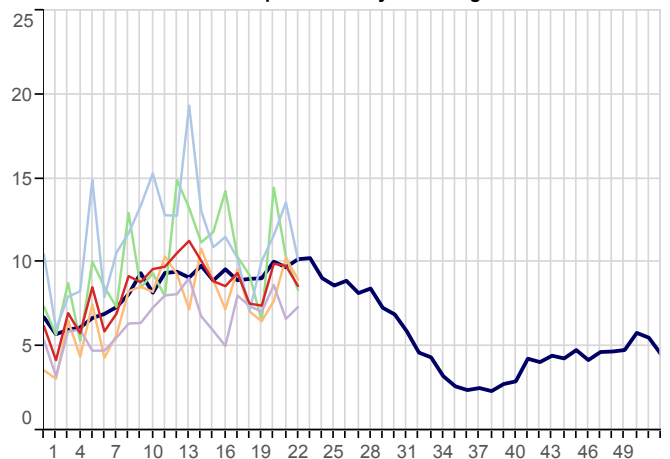


5. Skin Contagions

Bullous Dermatoses (ICD10: L10-L14)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



Chickenpox (ICD10: B01)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



5. Skin Contagions (Continued)

5yr Avg

National

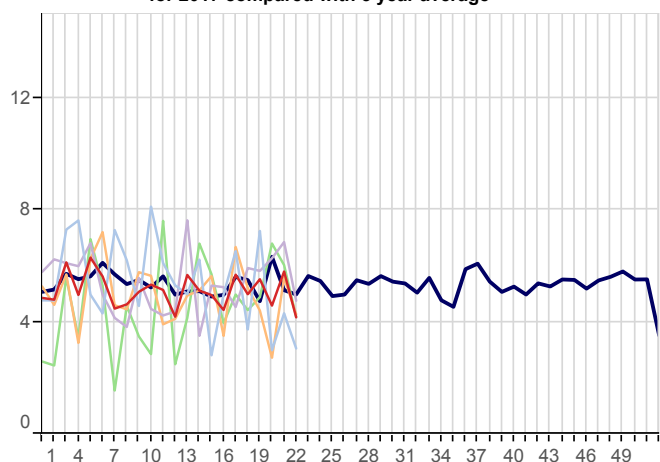
London

North

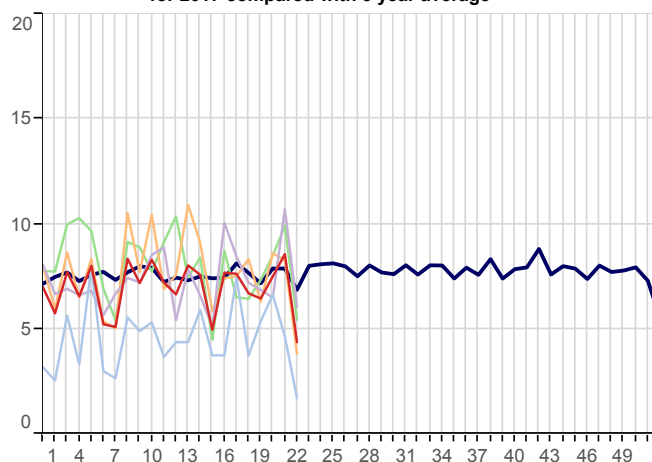
South

Midlands And East

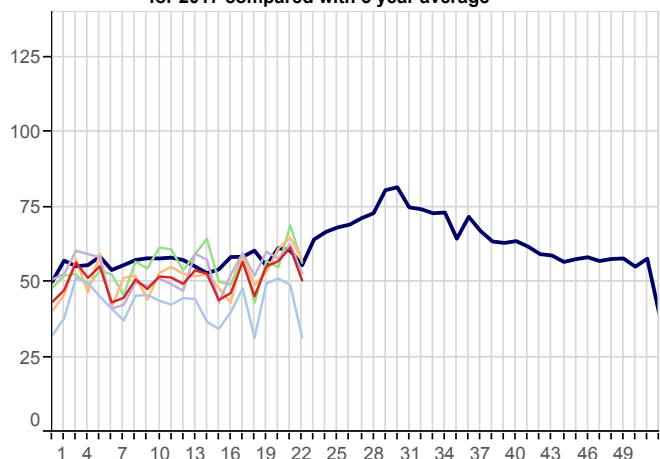
Herpes Simplex (ICD10: B00)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



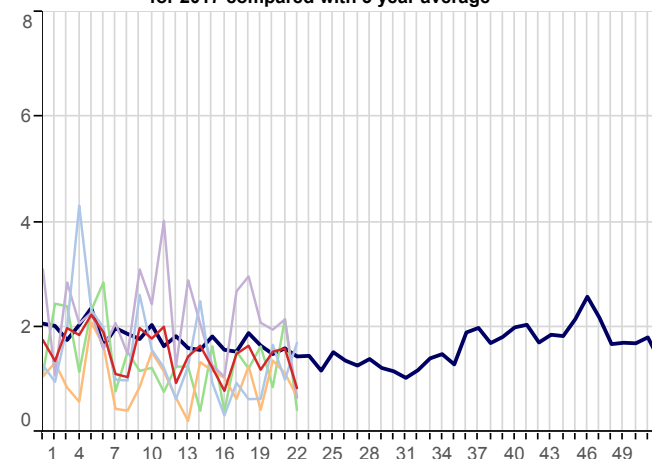
Herpes Zoster (ICD10: B02)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



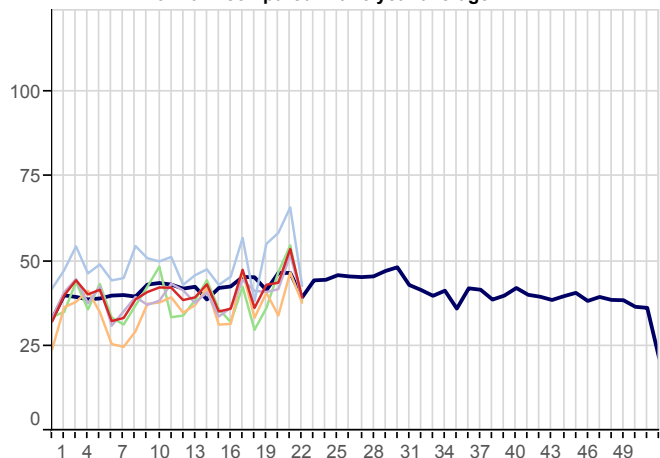
Infections of Skin & Subcutaneous Tissue (ICD10: L00-L08)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



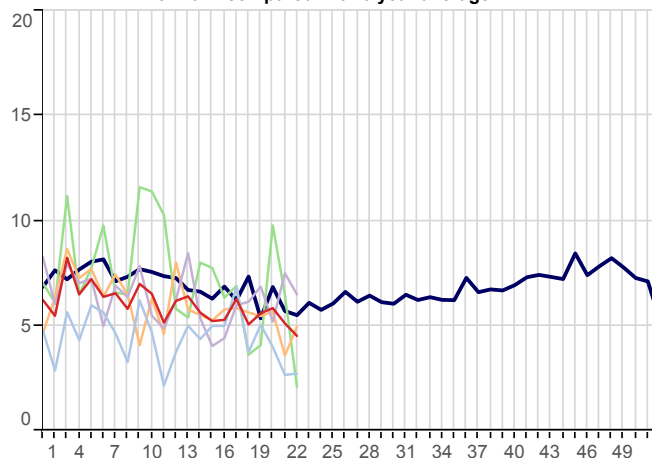
Scabies (ICD10: B86)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



Symptoms involving Skin & Oth Integument Tiss (ICD10: R20-R23)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



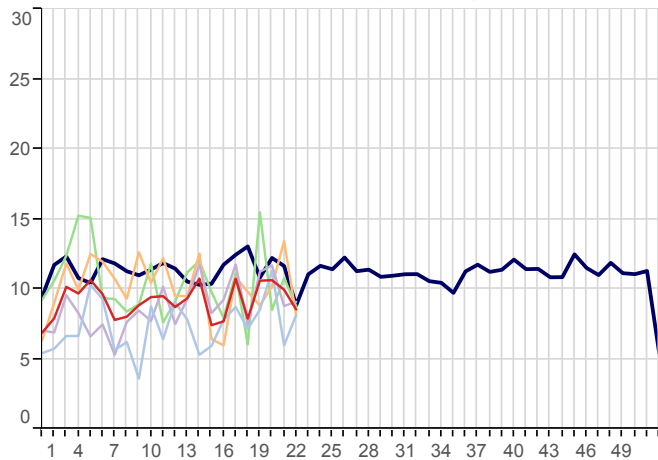
Impetigo (ICD10: L01)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



6. Disorders Affecting the Nervous System

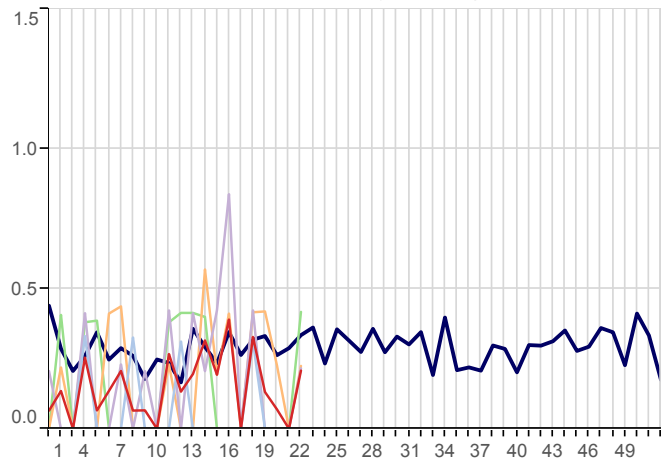
5yr Avg National London North

Disorders of The Peripheral Nervous System (ICD10: G50-G64,G70-G72)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average

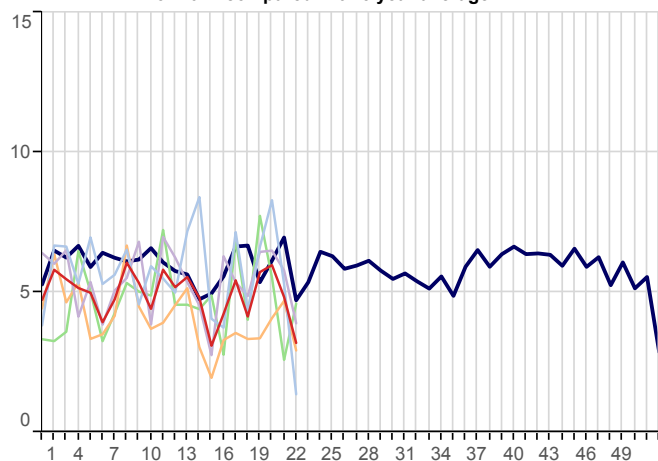


South Midlands And East

Meningitis/Encephalitis (ICD10: A170-A171,A390,A38-A85,A87,G00-G05)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average

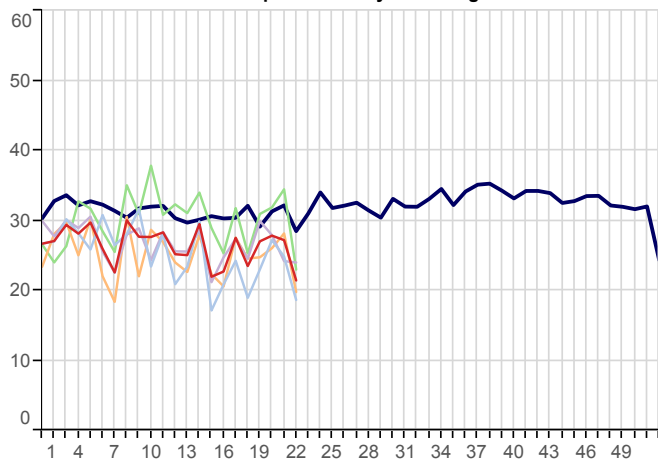


Symptoms Involving Nervous & Musculoskeletal (ICD10: R25-R29)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



7. Genitourinary System Disorders

Urinary Tract Infection/Cystitis (ICD10: N30,N390)
Weekly incidence (per 100,000 all ages) by region
for 2017 compared with 5 year average



8. Tabular Summary by Disease

Disease Name	Week beginning Week ending	29/05/2017 04/06/2017		22/05/2017 28/05/2017		15/05/2017 21/05/2017		08/05/2017 14/05/2017	
		Rate	Numer	Rate	Numer	Rate	Numer	Rate	Numer
Allergic Rhinitis		20.2	292	25.7	372	17.4	250	21.4	326
Asthma		9.4	136	15.3	221	14.2	205	12.4	189
Acute Bronchitis		41.9	605	50.6	733	56.1	808	57.0	867
Bullous Dermatoses		0.1	2	0.2	3	0.0	0	0.1	2
Chickenpox		8.6	124	9.8	142	9.9	143	7.4	113
Common Cold		43.0	620	62.9	912	75.3	1,085	69.2	1,053
Conjunctival Disorders		20.2	291	28.4	412	26.8	386	23.9	363
Herpes Simplex		4.2	60	5.8	84	4.6	66	5.5	84
Herpes Zoster		4.4	63	8.6	124	7.5	108	6.4	98
Impetigo		4.5	65	5.1	74	5.8	84	5.6	85
Infectious Mononucleosis		0.5	7	0.7	10	0.4	6	1.0	15
Influenza-like illness		1.5	21	2.4	35	3.9	56	3.0	45
Infectious Intestinal Diseases		7.4	107	9.5	137	9.4	136	8.7	132
Laryngitis and Tracheitis		1.8	26	3.2	47	3.1	45	4.0	61
Lower Respiratory Tract Infections		44.2	638	53.1	770	57.9	834	59.2	901
Measles		0.1	1	0.1	1	0.0	0	0.2	3
Meningitis and Encephalitis		0.2	3	0.0	0	0.1	1	0.1	2
Mumps		0.7	10	0.8	11	1.3	19	0.5	7
Non-infective Enteritis and Colitis		6.8	98	7.7	112	10.8	155	8.6	131
Otitis Media Acute		15.1	218	23.6	342	22.6	325	20.2	307
Peripheral Nervous Disease		8.5	123	9.9	144	10.6	153	10.6	161
Pleurisy		1.0	15	1.3	19	0.8	11	1.1	16
Pneumonia and Pneumonitis		1.1	16	1.2	17	1.0	14	1.1	16
Respiratory System Diseases		187.1	2,699	259.7	3,764	264.9	3,817	256.3	3,899
Rubella		0.0	0	0.0	0	0.0	0	0.0	0
Scabies		0.8	12	1.6	23	1.5	22	1.2	18
Sinusitis		12.2	176	16.6	241	17.9	258	17.1	260
Skin and Subcutaneous Tissue Infections		50.5	728	61.4	890	56.9	820	55.2	840
Strep Throat and Peritonsillar Abscess		1.5	22	2.1	31	2.9	42	2.1	32
Symptoms involving musculoskeletal		3.2	46	4.8	70	6.0	86	5.7	87
Symptoms involving Respiratory and Chest		14.2	205	18.8	272	19.6	282	19.2	292
Symptoms involving Skin and Integument Tissues		39.3	567	53.6	777	43.7	629	43.1	655
Tonsillitis and acute Pharyngitis		33.8	488	51.5	746	48.8	703	43.5	662
Upper Respiratory Tract Infections		105.4	1,520	157.0	2,275	166.5	2,399	153.2	2,331
Urinary Tract Infections		21.4	309	27.2	394	27.8	401	27.0	411
Viral Hepatitis		0.3	4	0.4	6	0.2	3	0.2	3
Whooping Cough		0.1	1	0.0	0	0.3	4	0.2	3
Practice Count		146		148		146		153	
Denom		1,442,317		1,449,099		1,440,887		1,521,333	

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 2011-2015. 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.

For two diseases, years with exceptionally high incidence have been excluded from the averages: for Whooping Cough, data from 2012 has been excluded; for Strep Sore Throat, Scarletina and Peritonsillar Abscess, data from 2013 and 2014 have been excluded so that similar rates in the future will appear as exceptional rather than normal in 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:

RCGP Research & Surveillance Centre
CIRC, First floor
30 Euston Square
London NW1 2FB
Tel: +44 (0)203 188 7690

RCGP Research & Surveillance Centre
University of Surrey
Section of Clinical Medicine and Ageing
GUILDFORD
GU2 7XH
Tel: +44 (0)1483 684802

Medical Director: Professor Simon de Lusignan
MedicalDirectorRSC@rcgp.org.uk

Practice Liaison Officer: Ivelina Yonova
i.yonova@surrey.ac.uk
Tel: +44 (0)1483 682758

