



Royal College of
General Practitioners
Research and Surveillance Centre

RSC Communicable and Respiratory Disease Report for England

Key Statistics:

Week Number/Year.....50/2018
Week Starting - Ending.....10/12/2018 - 16/12/2018
No. of Practices.....224
Population.....2262596

National (England)

- **Acute Bronchitis** : increased a little from **86.4** in week 49 to **90.2** in week 50.
- **Asthma** : was unchanged at **16.4** in week 49 compared with **16.4** in week 50.
- **Common Cold** : decreased a little from **119.9** in week 49 to **115.9** in week 50.
- **Influenza-Like illness** : increased from **7.6** in week 49 to **8.1** in week 50.
- **Respiratory System Diseases** : was unchanged at **335.8** in week 49 compared with **335.9** in week 50.

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

- **Acute Bronchitis** : decreased from **77.6** in week 49 to **66.5** in week 50 in the London region, increased from **102.1** in week 49 to **115.2** in week 50 in the North region, decreased a little from **77.4** in week 49 to **74.6** in week 50 in the South region, and increased from **87.2** in week 49 to **108.6** in week 50 in the Midlands And East region.
- **Asthma** : decreased from **16.3** in week 49 to **15.4** in week 50 in the London region, increased from **16.5** in week 49 to **18.1** in week 50 in the North region, was unchanged at **16.1** in week 49 compared with **16.0** in week 50 in the South region, and decreased from **16.8** in week 49 to **15.1** in week 50 in the Midlands And East region.
- **Common Cold** : decreased from **170.2** in week 49 to **158.7** in week 50 in the London region, was unchanged at **110.7** in week 49 compared with **112.8** in week 50 in the North region, was unchanged at **93.4** in week 49 compared with **94.7** in week 50 in the South region, and decreased from **131.1** in week 49 to **115.0** in week 50 in the Midlands And East region.
- **Influenza-Like illness** : increased from **9.7** in week 49 to **11.7** in week 50 in the London region, increased from **6.6** in week 49 to **7.1** in week 50 in the North region, decreased from **7.7** in week 49 to **7.0** in week 50 in the South region, and increased from **6.4** in week 49 to **8.2** in week 50 in the Midlands And East region.
- **Respiratory System Diseases** : was unchanged at **357.5** in week 49 compared with **350.8** in week 50 in the London region, increased a little from **359.1** in week 49 to **370.6** in week 50 in the North region, was unchanged at **292.4** in week 49 compared with **289.0** in week 50 in the South region, and was unchanged at **360.6** in week 49 compared with **357.3** in week 50 in the Midlands And East region.

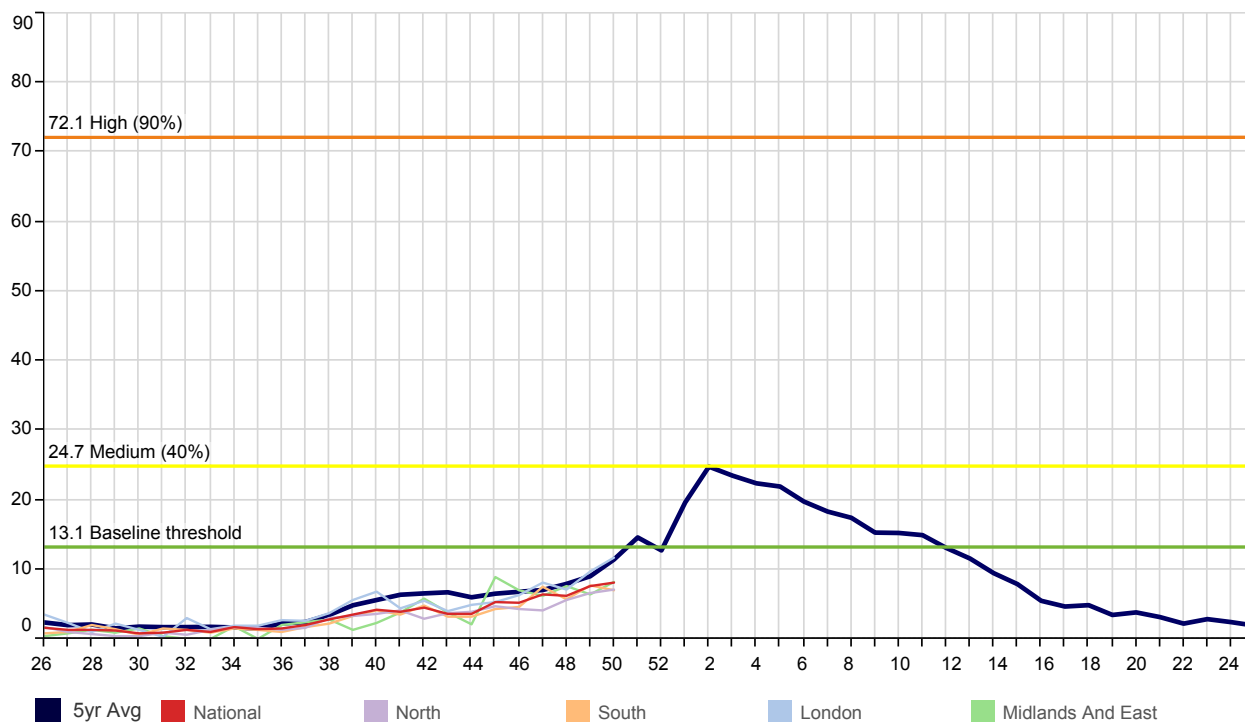
Comment:

Presentations of many respiratory and other conditions was largely unchanged this week and are in line with those anticipated at this time of year.

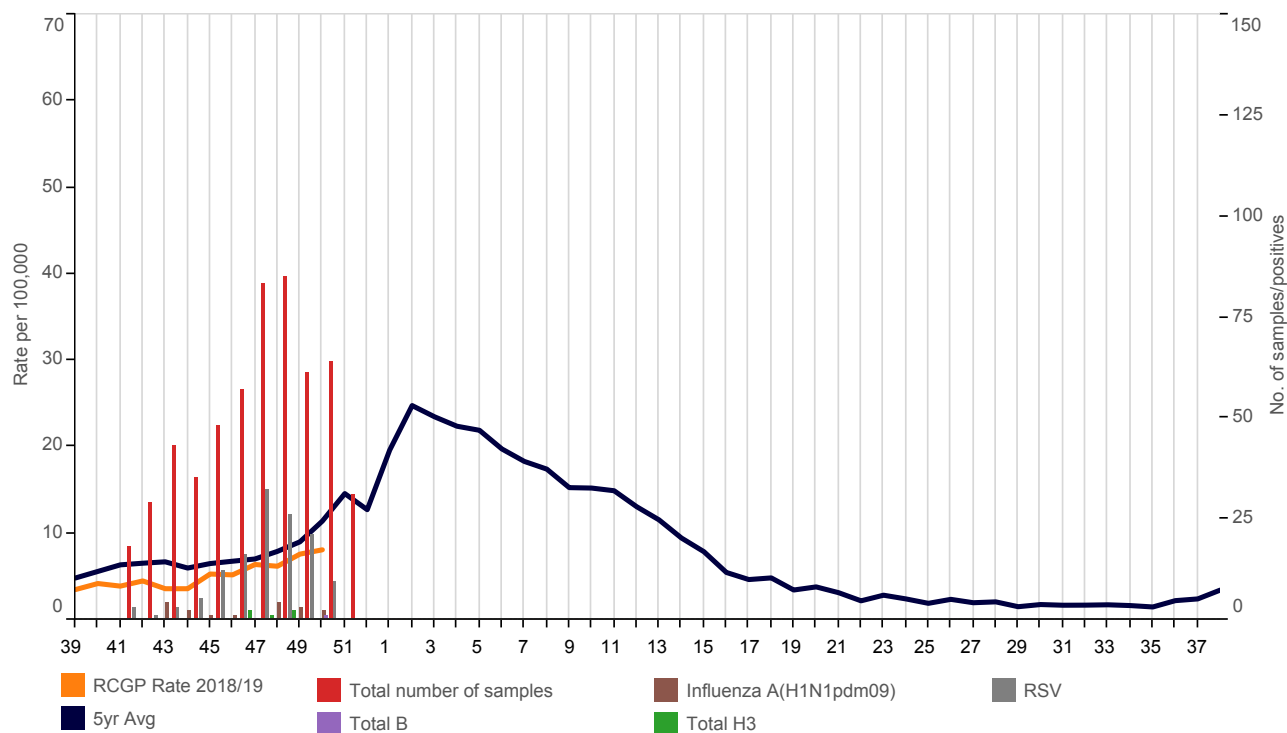
Winter Focus 2018/19

Please see page 13 for explanatory notes on the data.

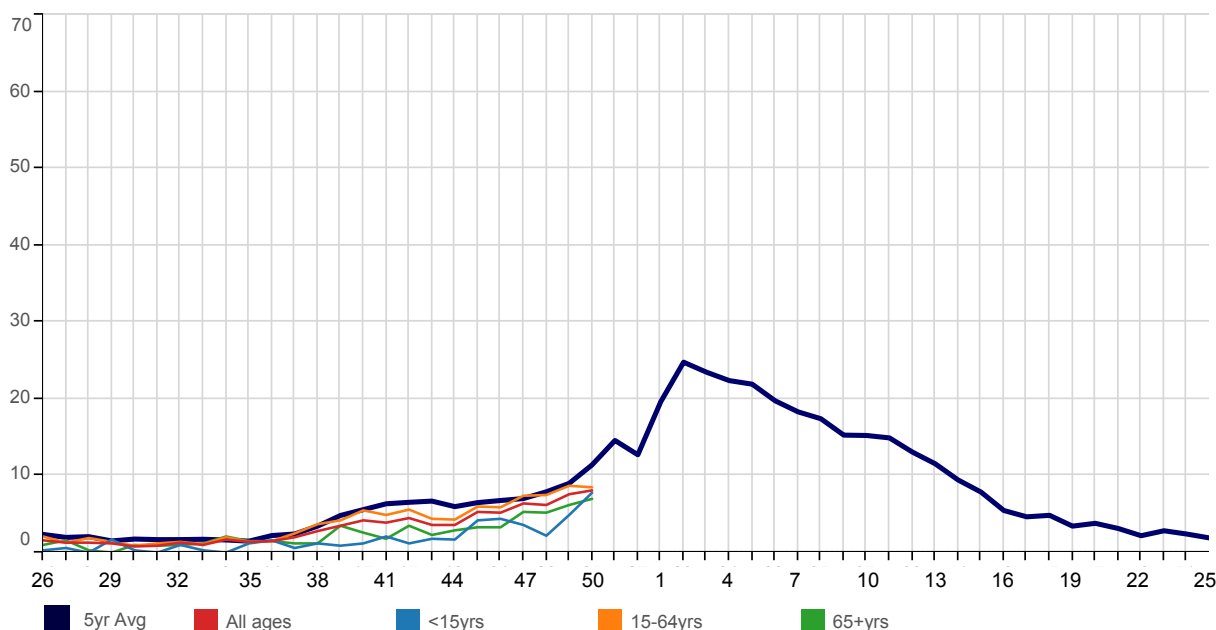
(A) Influenza-like illness: incidence rate winter 2018/19*



(B) RCGP/PHE RSV and Influenza Virology Swab Surveillance 2018/19(all ages, gender & regions combined)*



* The thresholds used are the agreed RCGP/ Public Health England levels for 2018/19. The rolling average line(blue) is based on 5 year historic RCGP RSC level.

(C) Influenza-like illness: national incidence rate 2018/2019 by age group***(D) Influenza-like illness: national incidence rate 2018/2019 by age group***

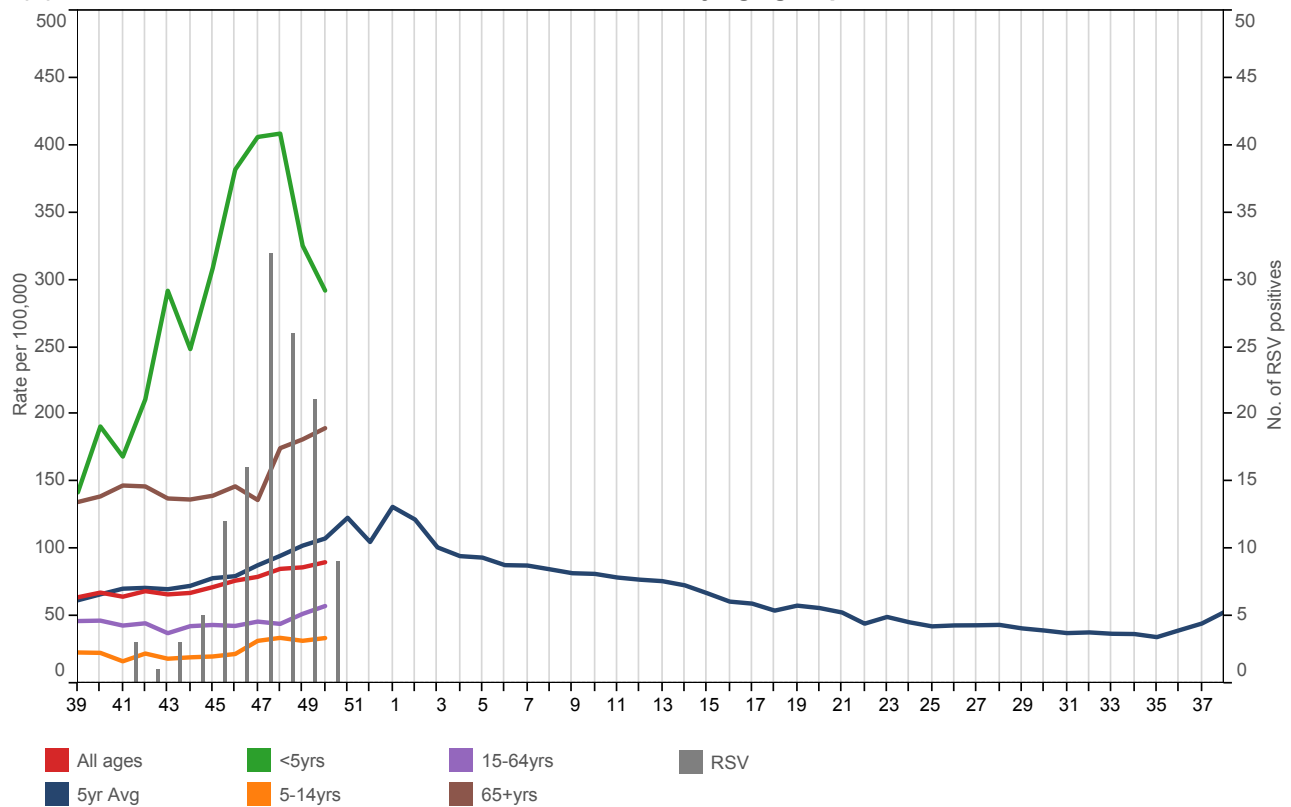
This table shows the level of intensity of ILI by age band. MEM thresholds have been calculated separately for each age band - the ranges are shown in the table Threshold levels by age band.

Table 1	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4
<15yrs	1.2	2.1	1.2	1.8	1.7	4.2	4.4	3.6	2.2	4.9	7.8						
15-64yrs	5.5	4.9	5.6	4.4	4.3	6.0	5.9	7.4	7.5	8.7	8.5						
65+yrs	2.6	1.8	3.5	2.3	2.9	3.3	3.3	5.3	5.2	6.2	7.0						
All ages	4.2	3.9	4.5	3.6	3.6	5.3	5.2	6.4	6.2	7.6	8.1						
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
<15yrs																	
15-64yrs																	
65+yrs																	
All ages																	

Table 2	Below Threshold ¹	Threshold to Medium ²	Medium to High ³	High to Very High ⁴	Above Very High ⁵	Threshold levels
0-14	<10.8	10.8 to <16.5	16.5 to <50.4	50.4 to <82.4	82.4+	¹ Below baseline threshold
15-64	<14.6	14.6 to <28.9	28.9 to <69.6	69.6 to <102.7	102.7+	² baseline threshold breach to < 40th percentile
65+	<11.7	11.7 to <17.6	17.6 to <43.6	43.6 to <65.1	65.1+	³ 40th to <90th percentile
All Ages	<13.1	13.1 to <24.7	24.7 to <72.1	72.1 to <115.6	115.6+	⁴ 90th to <97.5th percentile ⁵ 97.5th+ percentile

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

	Influenza-like illness	Acute Bronchitis		Influenza-like illness	Acute Bronchitis
<1yr	4.9	660.1	London	11.7	66.5
1-4yrs	7.9	217.9	North	7.1	115.2
5-14yrs	8.0	33.8	South	7.0	74.6
15-24yrs	6.5	20.9	Midlands And East	8.2	108.6
25-44yrs	9.5	49.4	National	8.1	90.2
45-64yrs	8.5	84.9			
65-74yrs	7.6	133.2			
75-84yrs	8.8	206.9			
85+yrs	0.0	375.0			
All ages	8.1	90.2			

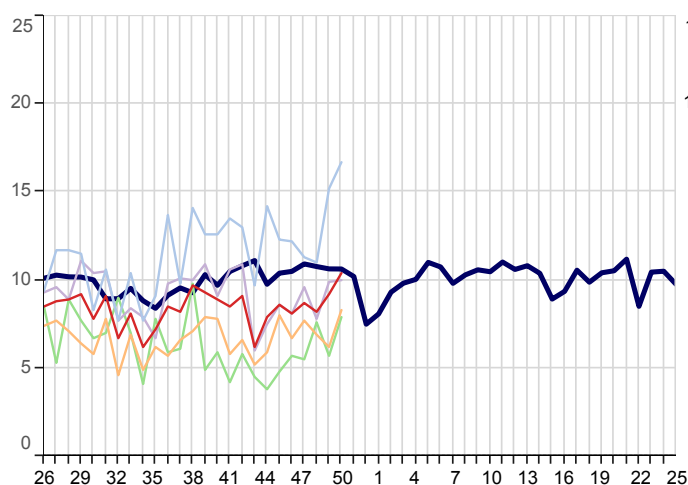
(E) Acute Bronchitis: national incidence rate 2018/2019 by age group***Weekly Influenza-like illness and Acute Bronchitis incidence rates per 100,000 persons**

	Influenza-like illness	Acute Bronchitis
<5yrs	7.4	292.1
5-14yrs	8.0	33.8
15-64yrs	8.5	57.6
65+yrs	7.0	189.8
All ages	8.1	90.2

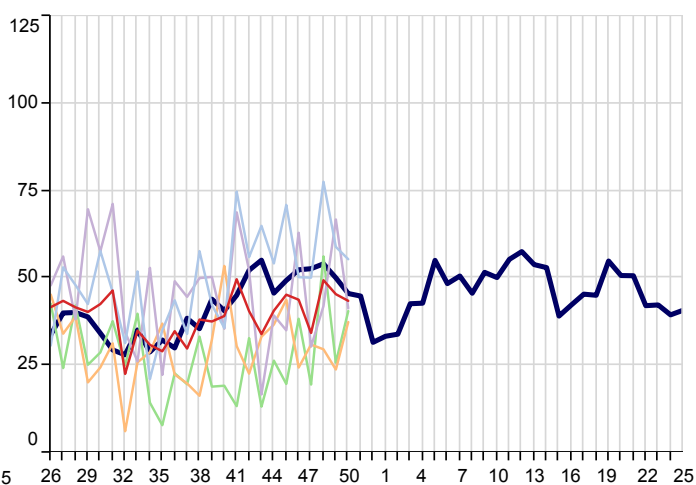
1. Water & Food Borne Disorders:

5yr Avg National London North South Midlands And East

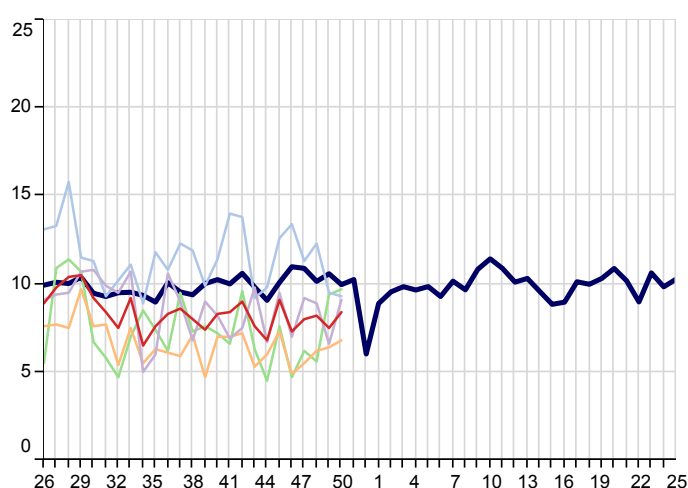
Infectious Intestinal Disease (ICD10: A00-A09)
Weekly incidence (per 100,000 **all ages**) by regions
for 2018/19 compared with 5 year average



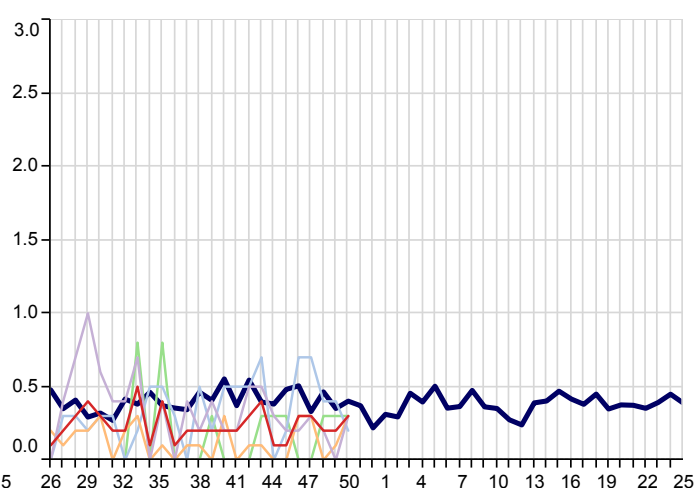
Infectious Intestinal Disease (ICD10: A00-A09)
Weekly incidence (per 100,000 **0-4 years**) by regions
for 2018/19 compared with 5 year average



Non-Infective Enteritis & Colitis (ICD10: K50-K52)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



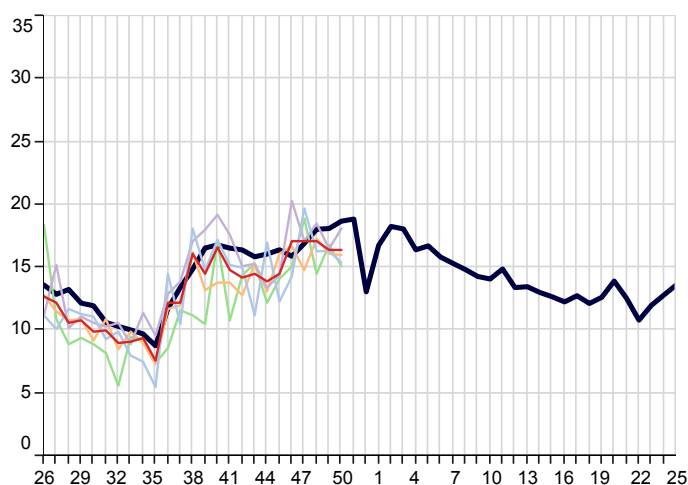
Viral Hepatitis (ICD10: B15-B19)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



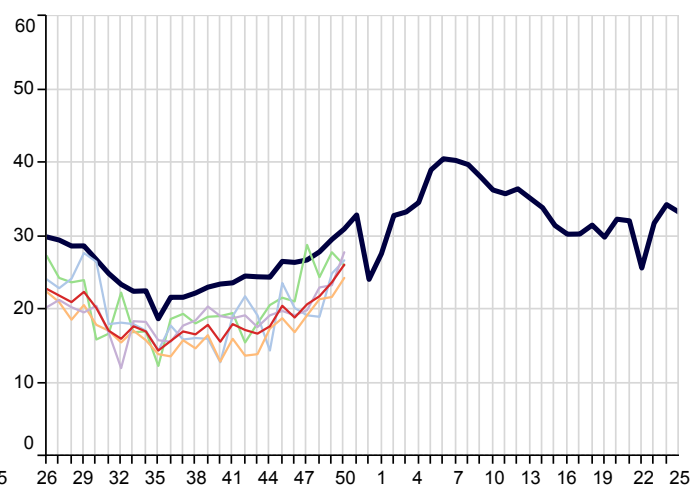
2. Environmentally Sensitive Disorders:

5yr Avg National London North South Midlands And East

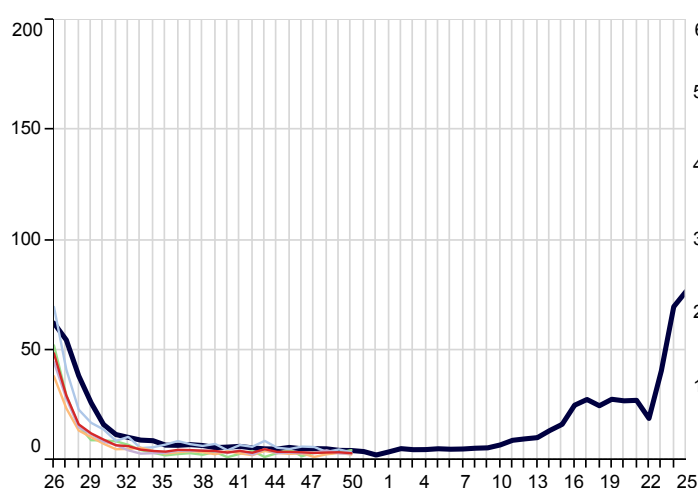
Asthma (ICD10: J45-J46)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



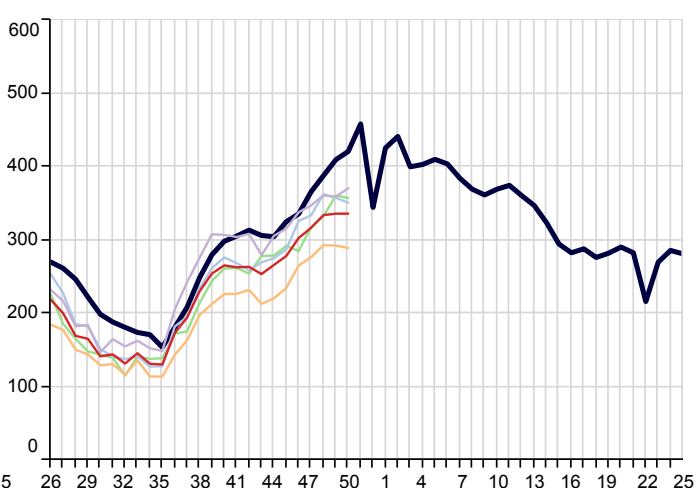
Disorders of Conjunctiva (ICD10: H10-H13)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



Hayfever/Allergic Rhinitis (ICD10: J30)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



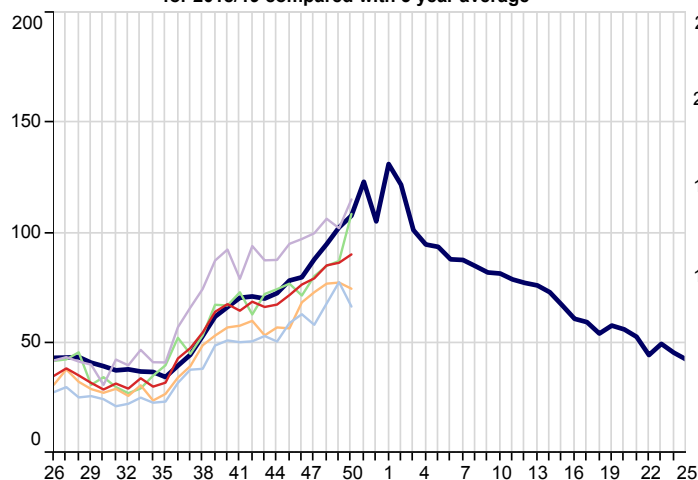
Symptoms involving Respiratory & Chest (ICD10: R05-R07,R09)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



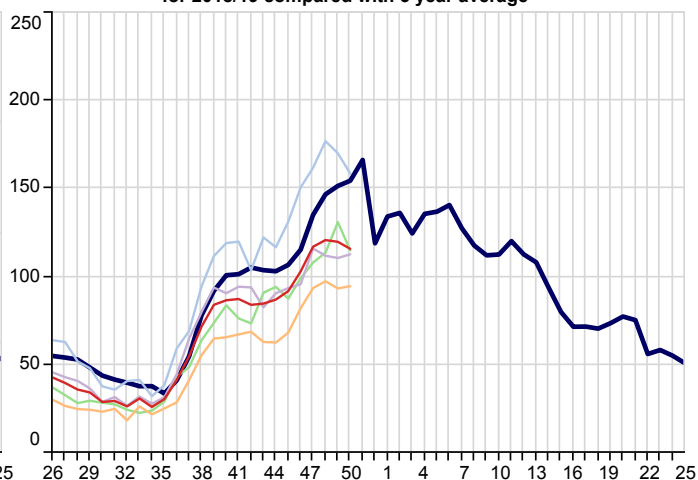
3. Respiratory Infections:

5yr Avg National London North South Midlands And East

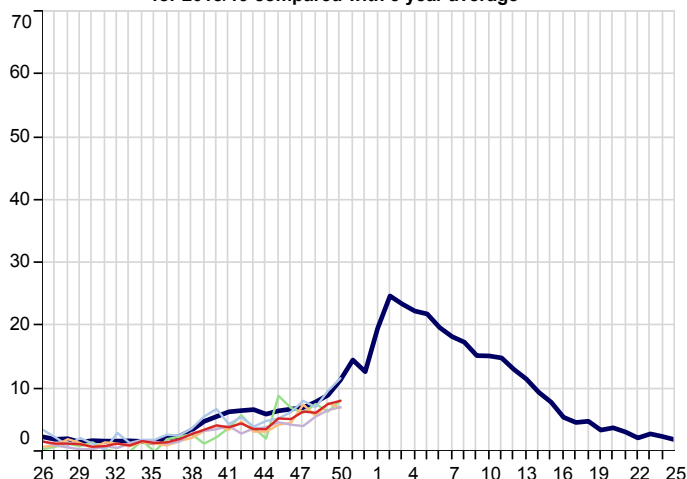
Acute Bronchitis (ICD10: J20-J21,J40)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



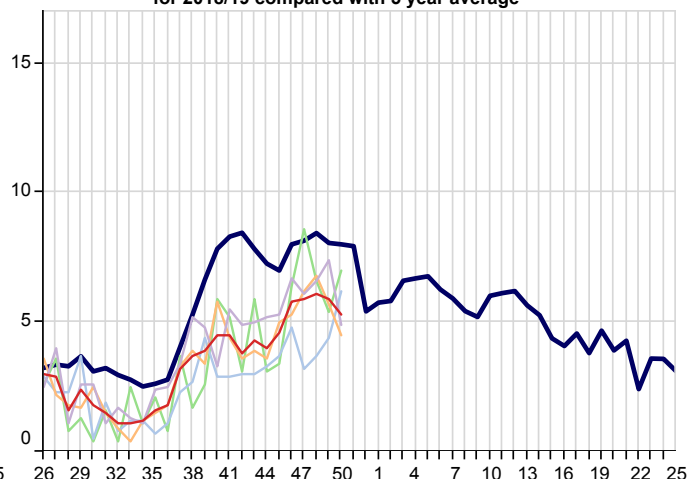
Common Cold (ICD10: J00,J06)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



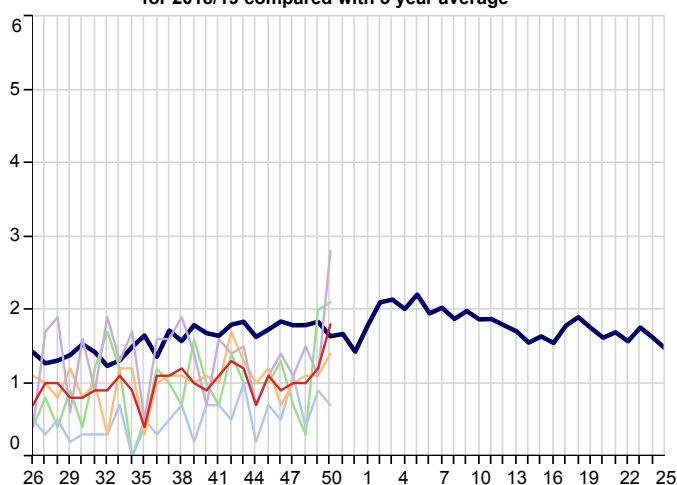
Influenza-Like Illness (ICD10: J09-J11)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



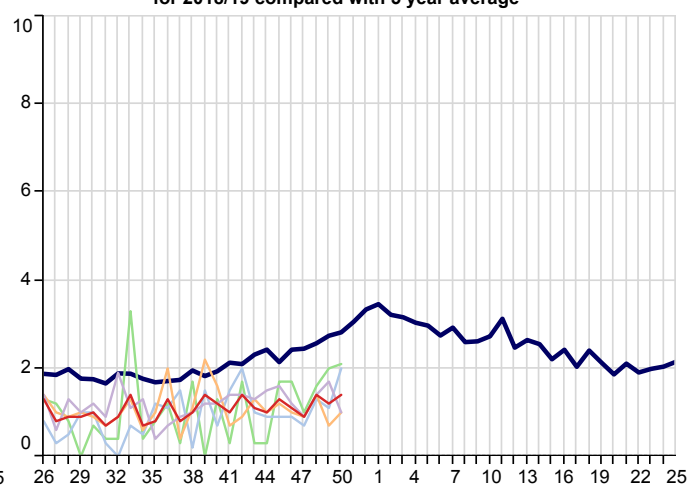
Acute Laryngitis/Tracheitis (ICD10: J04)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



Pleurisy (ICD10: R091)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



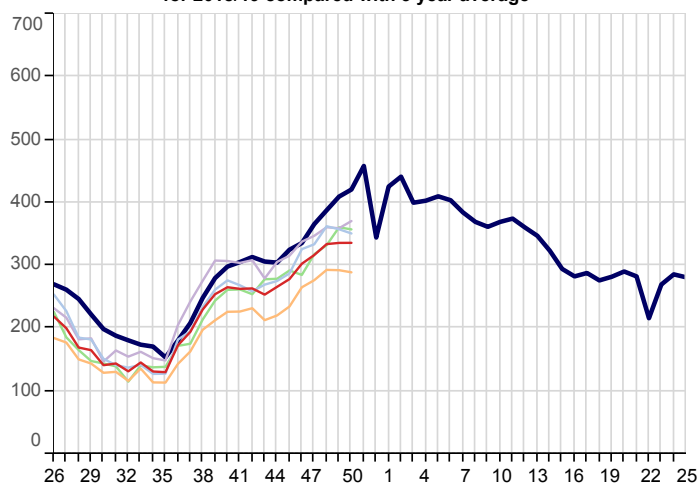
Pneumonia/Pneumonitis (ICD10: J12-J18)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



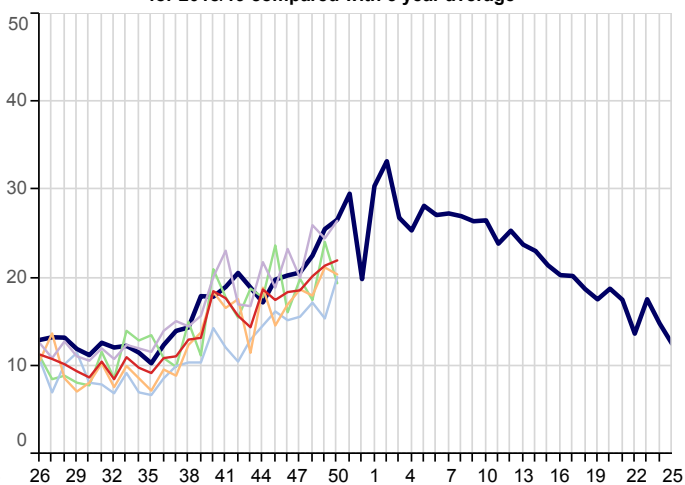
3. Respiratory Infections(Continued):

5yr Avg National London North South Midlands And East

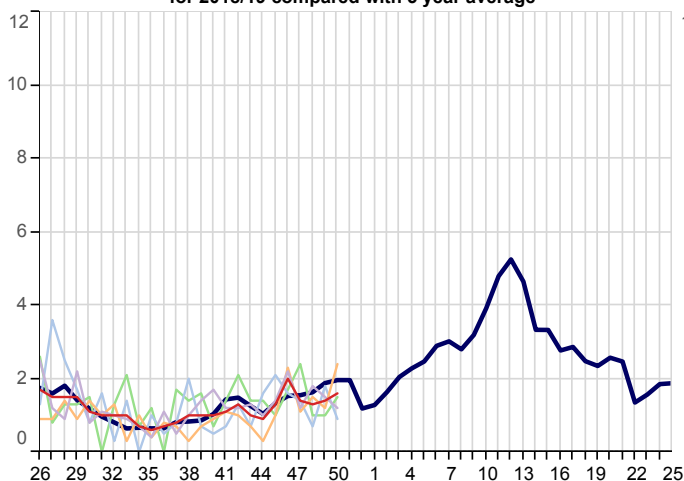
Respiratory System Diseases (ICD10: J00-J99)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



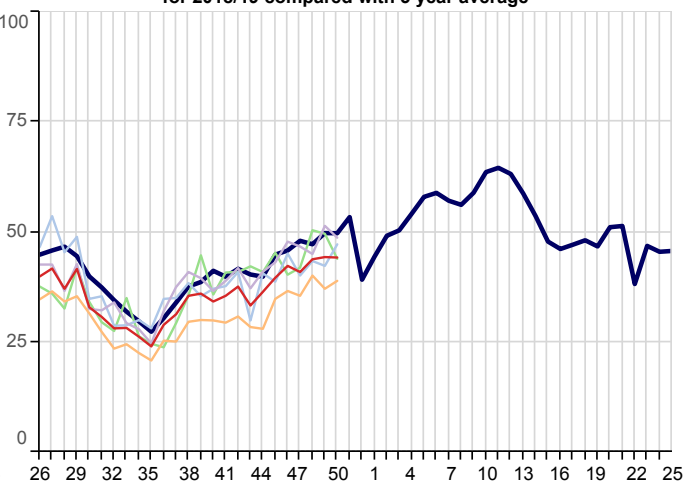
Acute Sinusitis (ICD10: J01)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



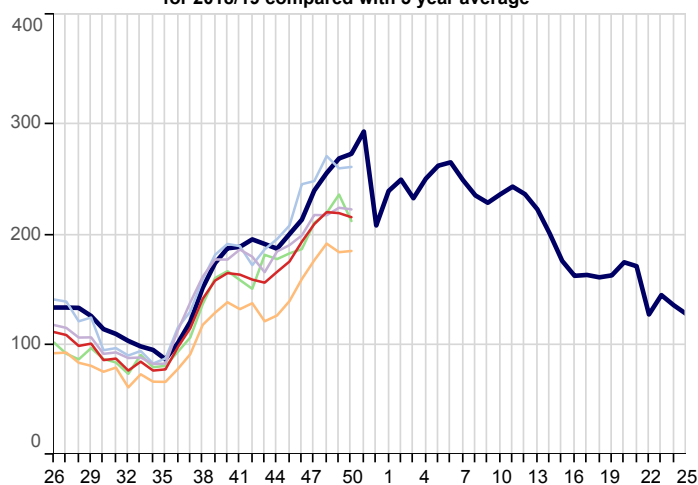
Strep Sore Throat, Scarletina and Peritonsillar Abscess (ICD10: A38,J020,J36)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



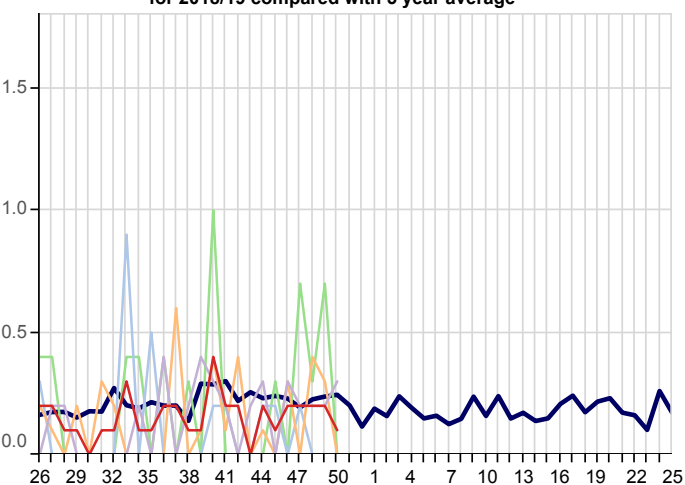
Acute Tonsillitis/Pharyngitis (ICD10: J02-J03)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



Upper Respiratory Tract Infections (URTI)(ICD10: J00-J06)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



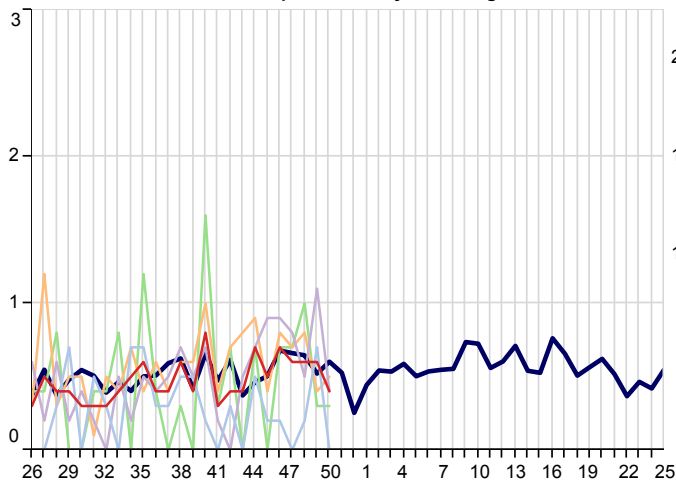
Whooping Cough (ICD10: A37)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



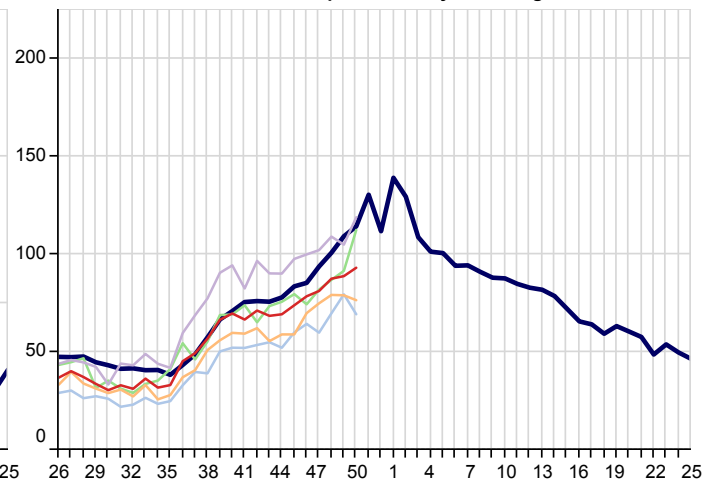
3. Respiratory Infections(Continued):

5yr Avg National London North South Midlands And East

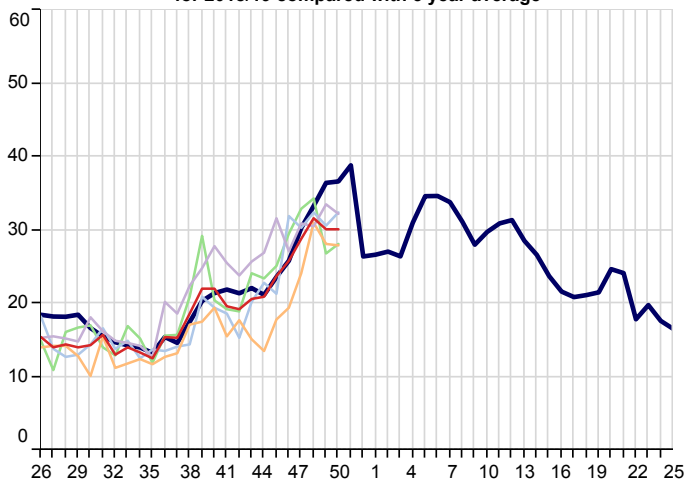
Infectious Mononucleosis (ICD10: B27)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



Lower Respiratory Tract Infections (LRTI)(ICD10: J20-J22)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



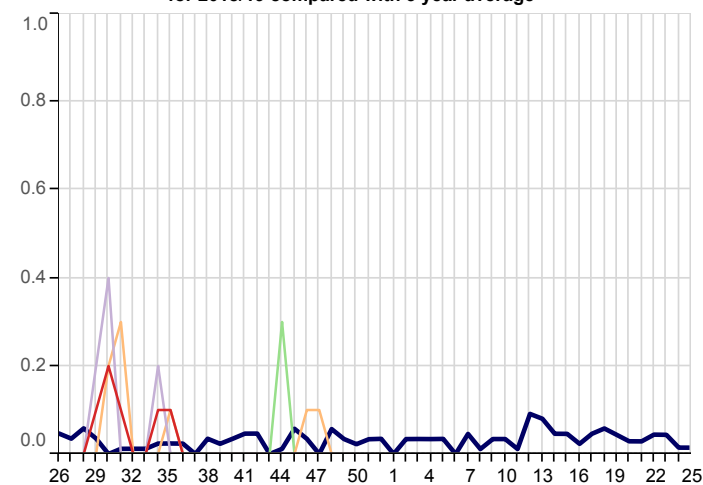
Acute Otitis Media (ICD10: H650-H651,H660,H669)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



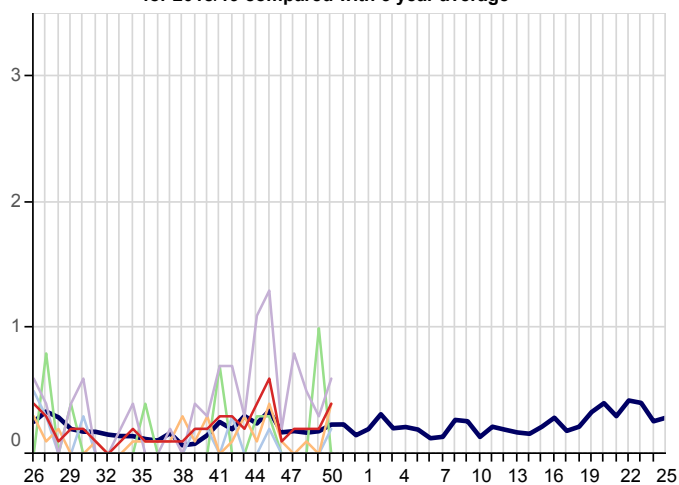
4. Vaccine Sensitive Disorders

5yr Avg National London North South Midlands And East

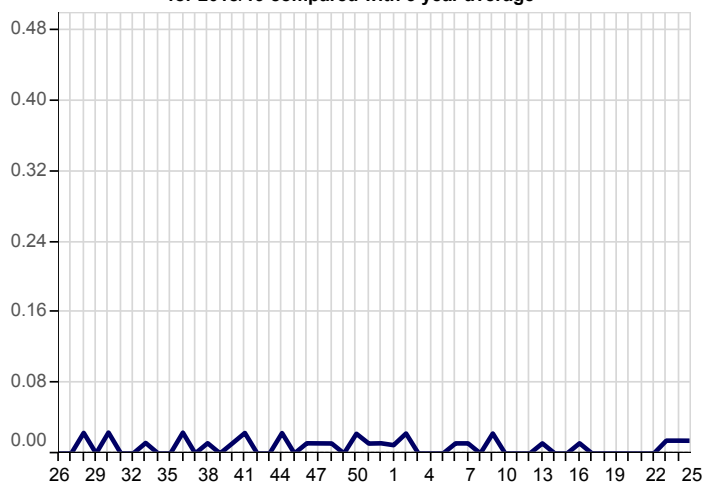
Measles (ICD10: B05)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



Mumps (ICD10: B26)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average

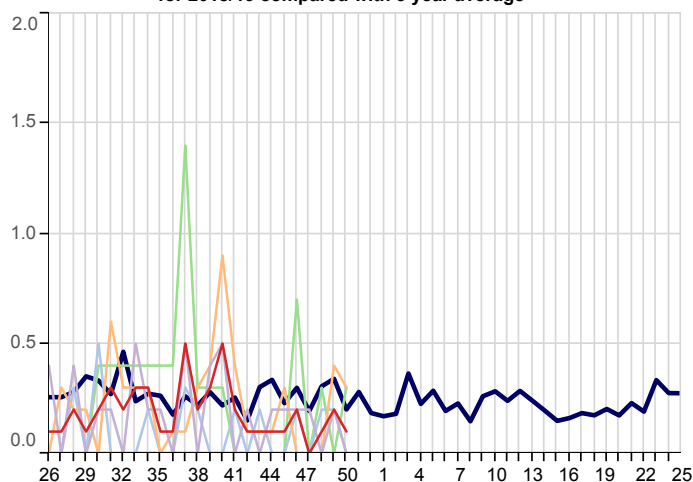


Rubella (ICD10: B06)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average

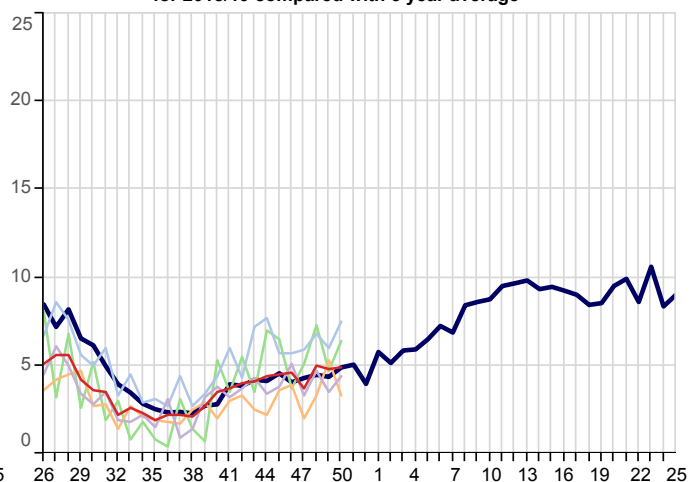


5. Skin Contagions

Bullous Dermatoses (ICD10: L10-L14)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



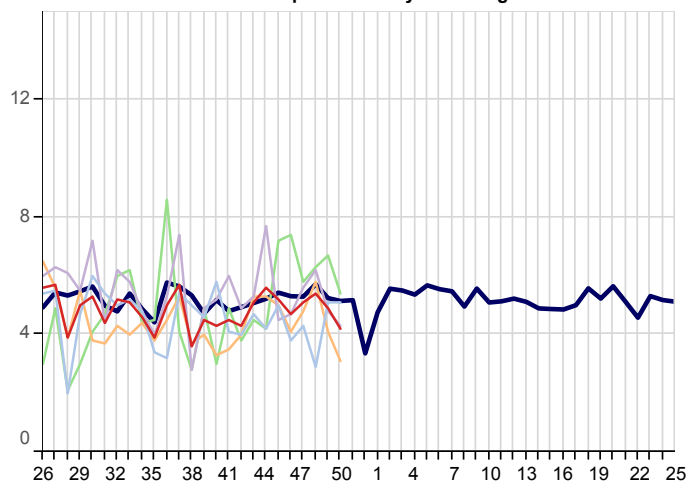
Chickenpox (ICD10: B01)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



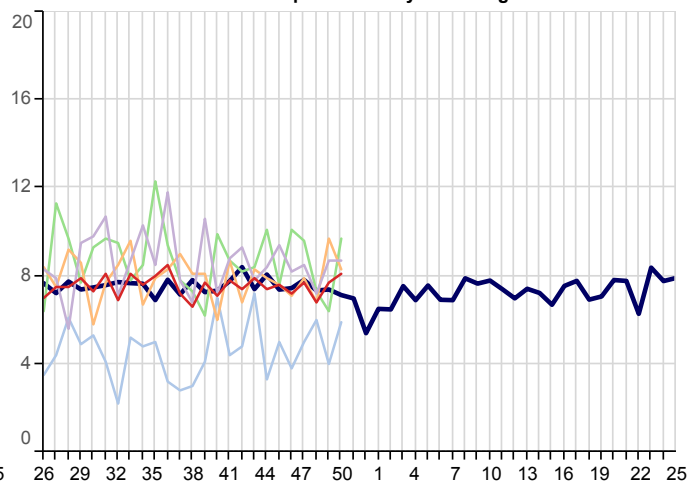
5. Skin Contagions (Continued)

5yr Avg National London North South Midlands And East

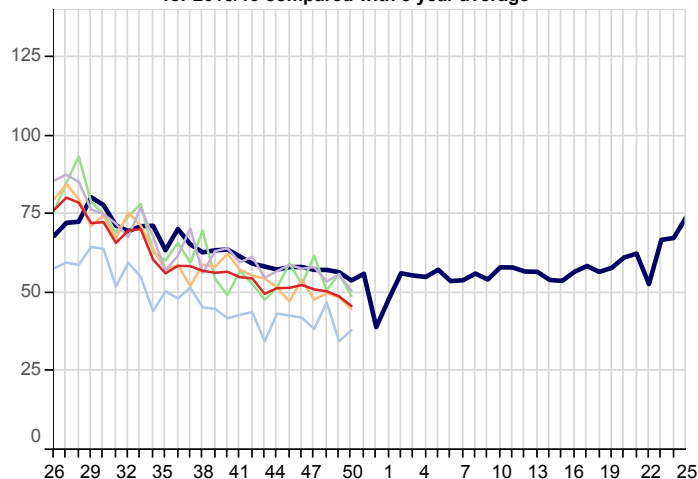
Herpes Simplex (ICD10: B00)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



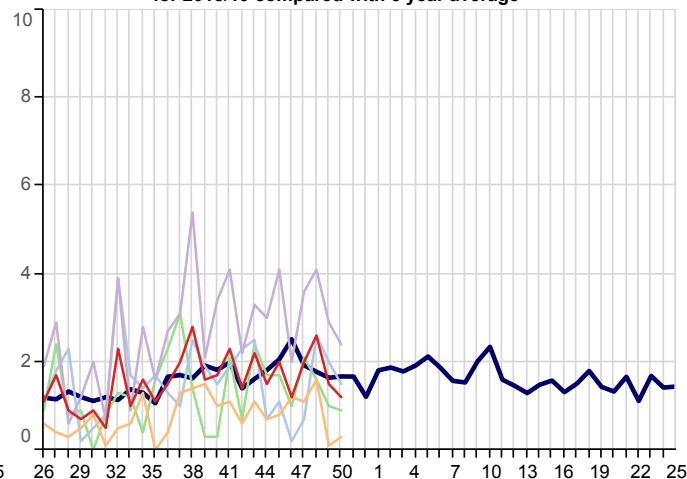
Herpes Zoster (ICD10: B02)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



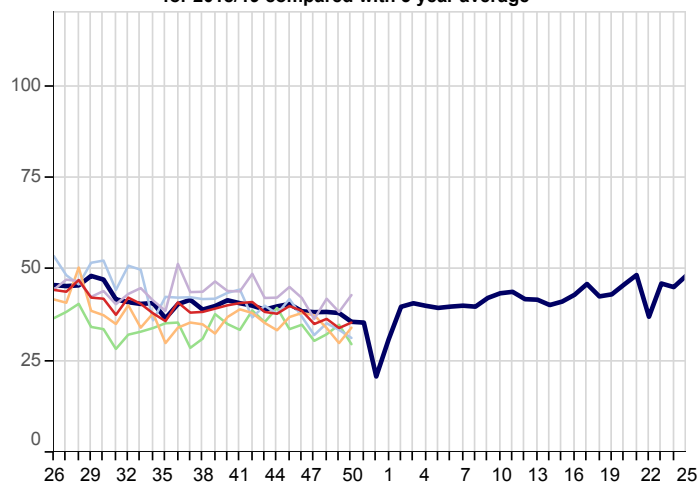
Infections of Skin & Subcutaneous Tissue (ICD10: L00-L08)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



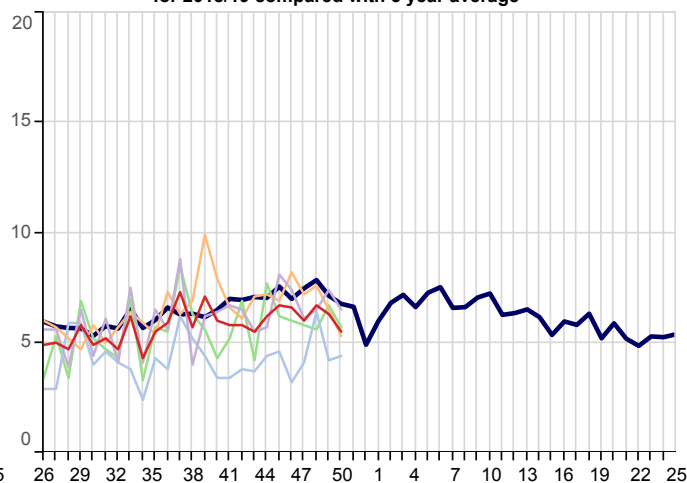
Scabies (ICD10: B86)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



Symptoms involving Skin & Oth Integument Tiss (ICD10: R20-R23)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



Impetigo (ICD10: L01)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



6. Disorders Affecting the Nervous System

5yr Avg

National

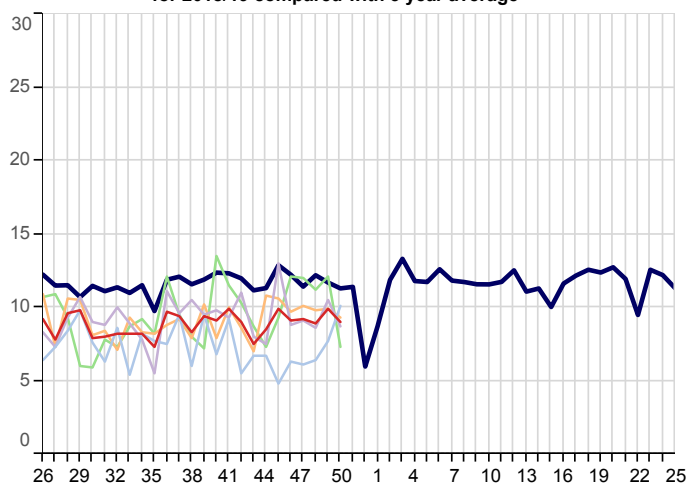
London

North

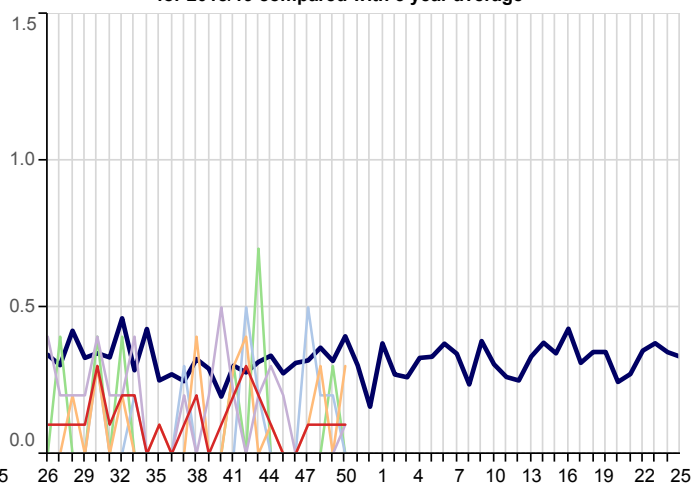
South

Midlands And East

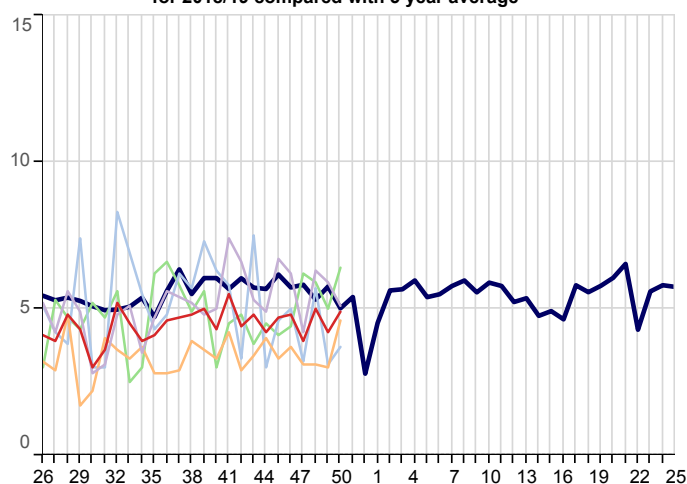
Disorders of The Peripheral Nervous System (ICD10: G50-G64,G70-G72)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



Meningitis/Encephalitis (ICD10: A170-A171,A390,A38-A85,A87,G00-G05)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average

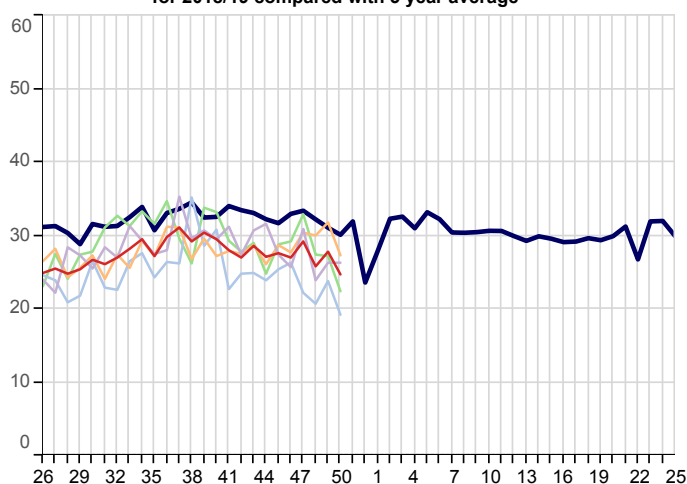


Symptoms Involving Nervous & Musculoskeletal (ICD10: R25-R29)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



7. Genitourinary System Disorders

Urinary Tract Infection/Cystitis (ICD10: N30,N390)
Weekly incidence (per 100,000 all ages) by region
for 2018/19 compared with 5 year average



8. Tabular Summary by Disease

Disease Name	Week beginning Week ending		10/12/2018 16/12/2018		03/12/2018 09/12/2018		26/11/2018 02/12/2018		19/11/2018 25/11/2018	
	Rate	Numer	Rate	Numer	Rate	Numer	Rate	Numer	Rate	Numer
Acute Bronchitis	90.2	2,040	86.4	1,877	85.2	1,840	79.3	1,663		
Allergic Rhinitis	3.1	71	3.5	76	3.4	74	3.2	68		
Asthma	16.4	371	16.4	356	17.1	369	17.1	359		
Bullous Dermatoses	0.1	3	0.2	5	0.1	2	0.0	1		
Chickenpox	4.9	111	4.8	104	5.0	108	3.7	77		
Common Cold	115.9	2,623	119.9	2,606	120.9	2,611	117.1	2,456		
Conjunctival Disorders	26.1	590	23.7	515	21.8	471	20.7	435		
Herpes Simplex	4.2	95	4.9	106	5.4	116	5.1	107		
Herpes Zoster	8.1	184	7.7	168	6.8	147	7.7	162		
Impetigo	5.5	125	6.3	137	6.7	145	6.0	126		
Infectious Mononucleosis	0.4	8	0.6	14	0.6	13	0.6	12		
Influenza-like illness	8.1	184	7.6	165	6.2	134	6.4	134		
Infectious Intestinal Diseases	10.4	236	9.2	199	8.2	176	8.7	183		
Laryngitis and Tracheitis	5.3	120	5.9	128	6.1	131	5.9	123		
Lower Respiratory Tract Infections	93.2	2,108	88.9	1,931	87.6	1,891	81.3	1,706		
Measles	0.0	0	0.0	0	0.0	0	0.0	1		
Meningitis and Encephalitis	0.1	3	0.1	2	0.1	3	0.1	3		
Mumps	0.4	8	0.2	5	0.2	4	0.2	5		
Non-infective Enteritis and Colitis	8.4	190	7.5	163	8.2	178	8.0	168		
Otitis Media Acute	30.1	682	30.1	654	31.6	683	28.8	604		
Peripheral Nervous Disease	9.0	203	9.9	216	8.9	192	9.2	193		
Pleurisy	1.8	40	1.2	25	1.0	21	1.0	21		
Pneumonia and Pneumonitis	1.4	31	1.2	27	1.4	30	0.9	18		
Respiratory System Diseases	335.9	7,600	335.8	7,297	333.9	7,209	316.5	6,637		
Rubella	0.0	0	0.0	0	0.0	0	0.0	0		
Scabies	1.2	28	1.5	32	2.6	56	2.0	41		
Sinusitis	22.0	498	21.4	465	20.2	437	18.6	391		
Skin and Subcutaneous Tissue Infections	45.8	1,037	48.9	1,063	50.5	1,091	51.1	1,071		
Strep Throat and Peritonsillar Abscess	1.6	36	1.4	30	1.3	29	1.4	29		
Symptoms involving musculoskeletal	4.9	110	4.2	91	5.0	109	3.9	82		
Symptoms involving Respiratory and Chest	17.6	399	17.8	387	19.1	413	18.0	378		
Symptoms involving Skin and Integument Tissues	35.5	804	34.0	738	36.5	788	35.1	736		
Tonsillitis and acute Pharyngitis	44.2	1,001	44.3	962	43.8	945	40.9	857		
Upper Respiratory Tract Infections	215.9	4,884	219.6	4,772	220.5	4,761	209.6	4,395		
Urinary Tract Infections	24.7	558	27.8	604	25.8	557	29.2	612		
Viral Hepatitis	0.3	6	0.2	4	0.2	4	0.3	7		
Whooping Cough	0.1	2	0.2	5	0.2	5	0.2	4		
Practice Count		224		213		210		206		
Denom		2,262,596		2,173,213		2,159,234		2,097,176		

FURTHER INFORMATION:

About the report

Winter focus

The first two pages of data within this report focus on Influenza-Like Illness, in order to provide information about the on set of seasonal influenza and early warning of any epidemic.

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. As stated above, 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.

In addition to the All Ages thresholds, we have also calculated thresholds for three age bands: those aged under 15, 15-64 year olds and those aged 65 and over. ILI incidence rates vary among different age groups, and the age-specific thresholds allow us to highlight epidemics where ILI disproportionately affects a particular age group.

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, but it is part of Table 3, page 3.

Both the *all-ages* thresholds and the *age-specific* thresholds are shown in Table 2, page 3. Ten years of data were used for *all-ages* and *age-specific* thresholds calculation (winter seasons 2005/06- 2015/16 excluding 2009/10).

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, prevalence 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/rsc>

Our data extraction process and information governance

Data are extracted twice weekly from practice systems by Wellbeing data management 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 Wellbeing data management 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 or agreement from NIHR proportionate review, and where relevant Health Research Authority Confidential Advisory Group advice that further approval is not needed. Full details can be found on our website:

<http://www.rcgp.org.uk/rsc>

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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