



RSC Communicable and Respiratory Disease Report for England

Key Statistics:

Week Number/Year..... 38/2020
 Week Starting - Ending..... 14/09/2020 - 20/09/2020
 No. of Practices..... 393
 Population..... 4,014,997

National (England)

- **Acute Bronchitis** : increased from 15.5 in week 37 to 20.5 in week 38.
- **Asthma** : increased from 8.1 in week 37 to 10.3 in week 38.
- **Common Cold** : increased 22.4 in week 37 to 33.7 in week 38.
- **Influenza-like illness** : increased from 1.2 in week 37 to 1.8 in week 38.
- **Respiratory System Diseases** : increased from 118.4 in week 37 to 146.1 in week 38.
- **COVID-19** : decreased from 19.4 in week 37 to 17.7 in week 38.

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

- **Acute Bronchitis** : increased from 5.4 in week 37 to 8.7 in week 38 in the London region, increased from 24.9 in week 37 to 33.6 in week 38 in the North region, increased from 12.6 in week 37 to 15.2 in week 38 in the South region, and increased from 17.2 in week 37 to 23.2 in week 38 in the Midlands And East region.
- **Asthma** : increased from 7.6 in week 37 to 8.5 in week 38 in the London region, increased from 9.7 in week 37 to 13.9 in week 38 in the North region, increased from 7.8 in week 37 to 8.3 in week 38 in the South region, and increased from 6.2 in week 37 to 10.6 in week 38 in the Midlands And East region.
- **Common Cold** : increased from 24.1 in week 37 to 52.2 in week 38 in the London region, increased from 26.6 in week 37 to 36.0 in week 38 in the North region, increased from 18.0 in week 37 to 26.0 in week 38 in the South region, and increased from 25.3 in week 37 to 30.2 in week 38 in the Midlands And East region.
- **Influenza-like illness** : increased from 0.8 in week 37 to 2.0 in week 38 in the London region, increased from 1.0 in week 37 to 1.8 in week 38 in the North region, decreased from 1.6 in week 37 to 1.4 in week 38 in the South region, and increased from 0.7 in week 37 to 2.4 in week 38 in the Midlands And East region.
- **Respiratory System Diseases** : increased from 94.5 in week 37 to 142.5 in week 38 in the London region, increased from 153.4 in week 37 to 182.2 in week 38 in the North region, increased from 104.3 in week 37 to 124.4 in week 38 in the South region, and increased from 118.3 in week 37 to 140.6 in week 38 in the Midlands And East region.
- **COVID-19** : decreased from 17.5 in week 37 to 8.3 in week 38 in the London region, increased from 32.4 in week 37 to 39.2 in week 38 in the North region, decreased from 9.8 in week 37 to 5.7 in week 38 in the South region, and decreased from 24.1 in week 37 to 19.5 in week 38 in the Midlands And East region.

Comment:

Overall presentations of respiratory diseases increased this week but remain below seasonal levels for this time of year. We note the rise of influenza-like-illness in under 15 year olds, and that the overall the increase in incidence in respiratory disease is similar to the rise usually seen at the start of the school term.

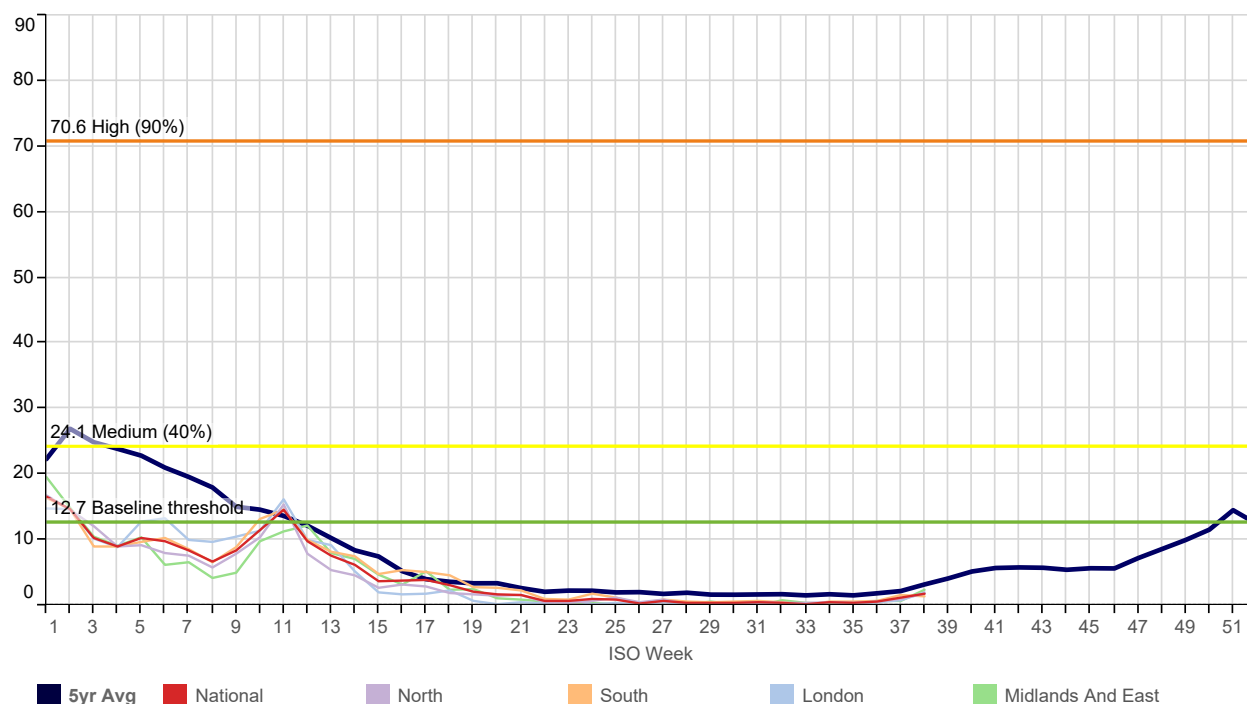
We are experiencing a lag in the receipt of COVID-19 results therefore our most recent week in the report should be treated with caution. It represents the minimum incidence in the most recent week.

This report includes a virology update.

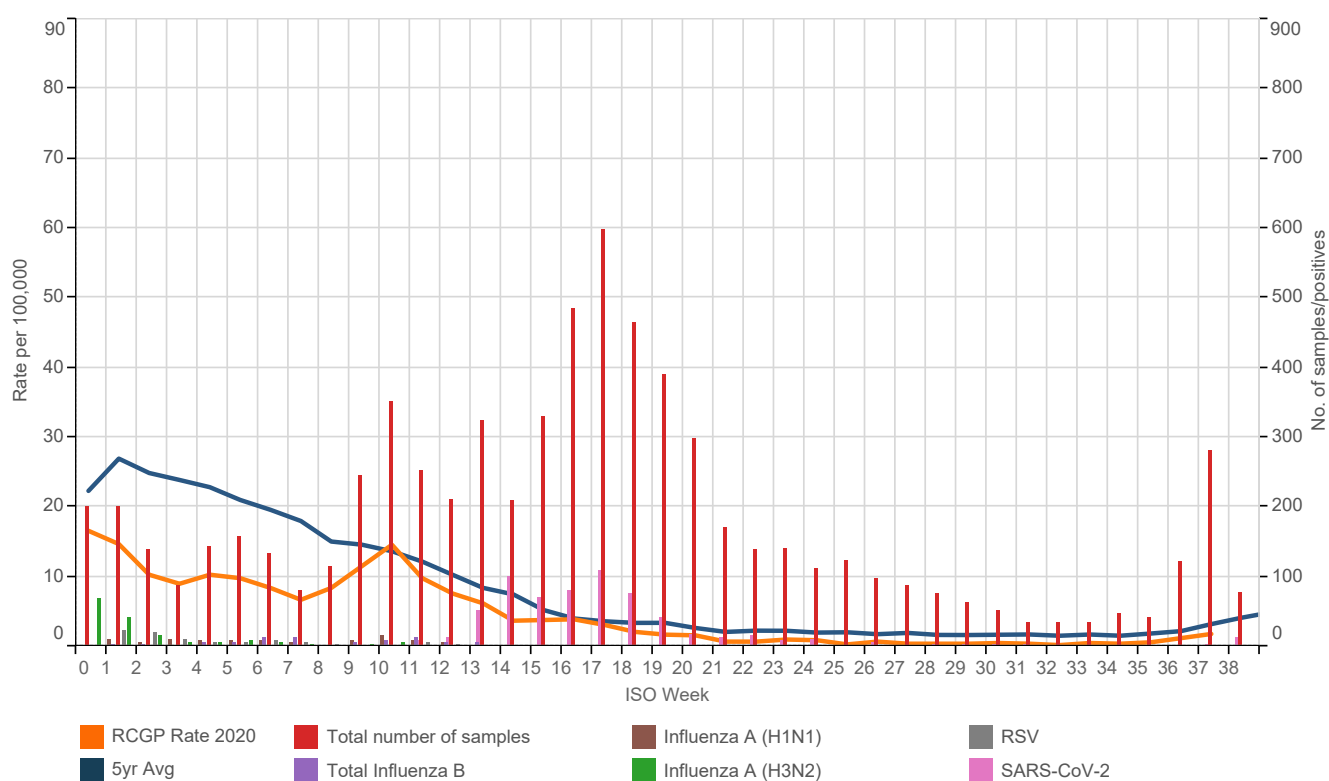
Summer Focus 2020

Please see page 15 for explanatory notes on the data.

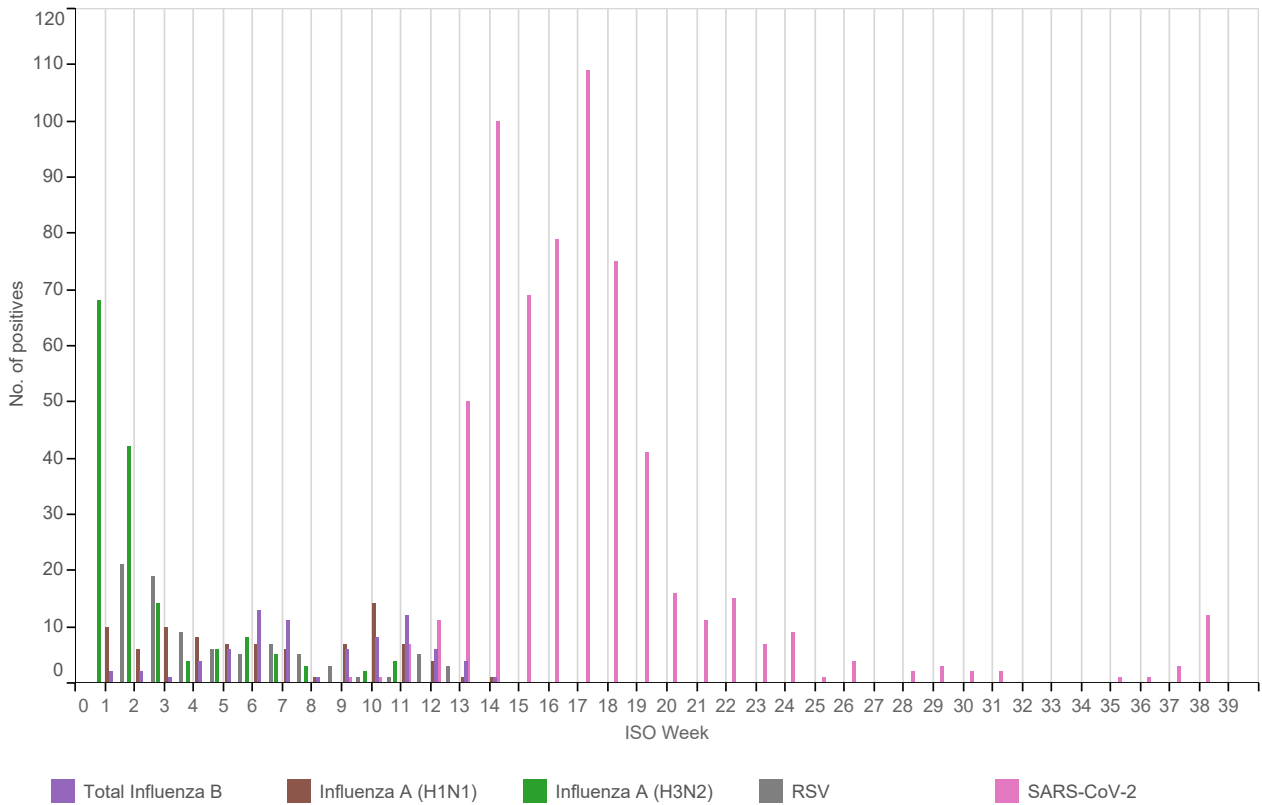
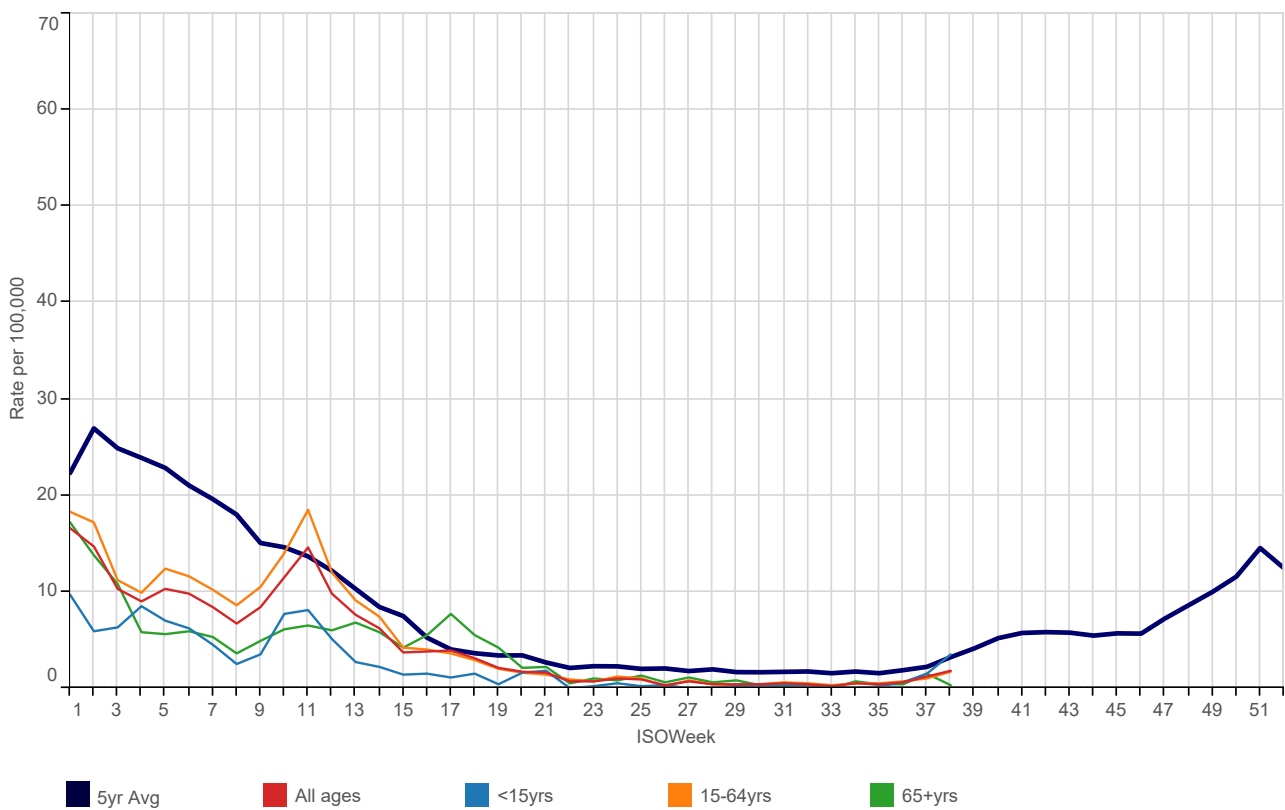
(A) Influenza-like illness: national incidence rate summer 2020 by region*

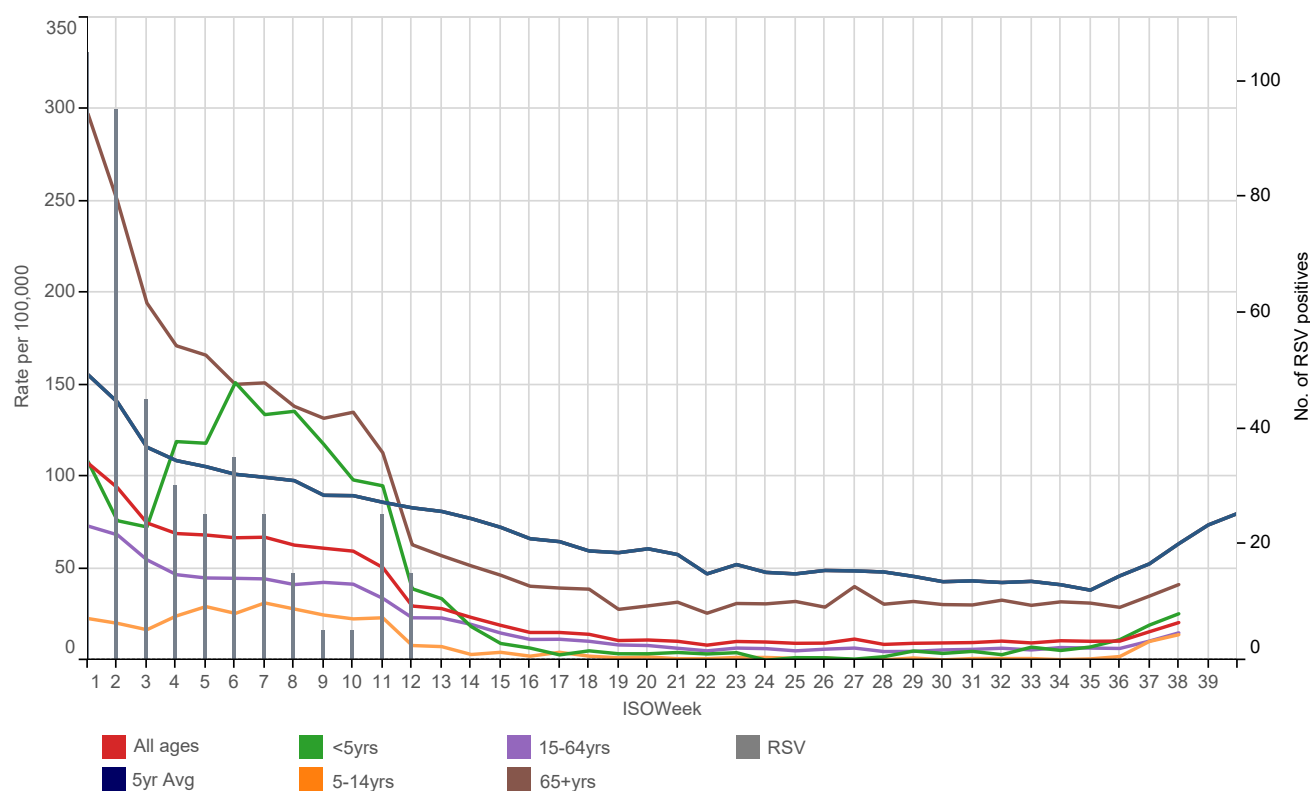


(B) RCGP/PHE RSV, Influenza and SARS-CoV-2 Virology Swab Surveillance 2020*

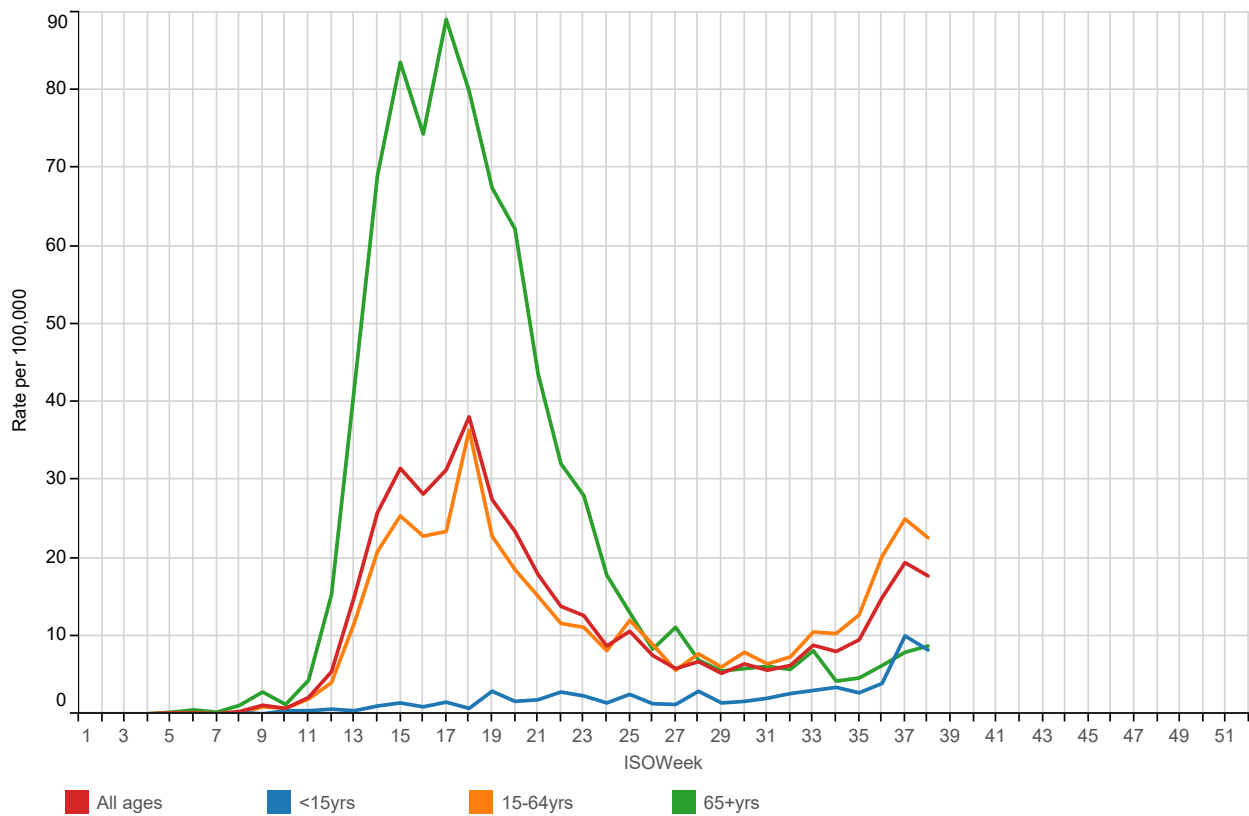
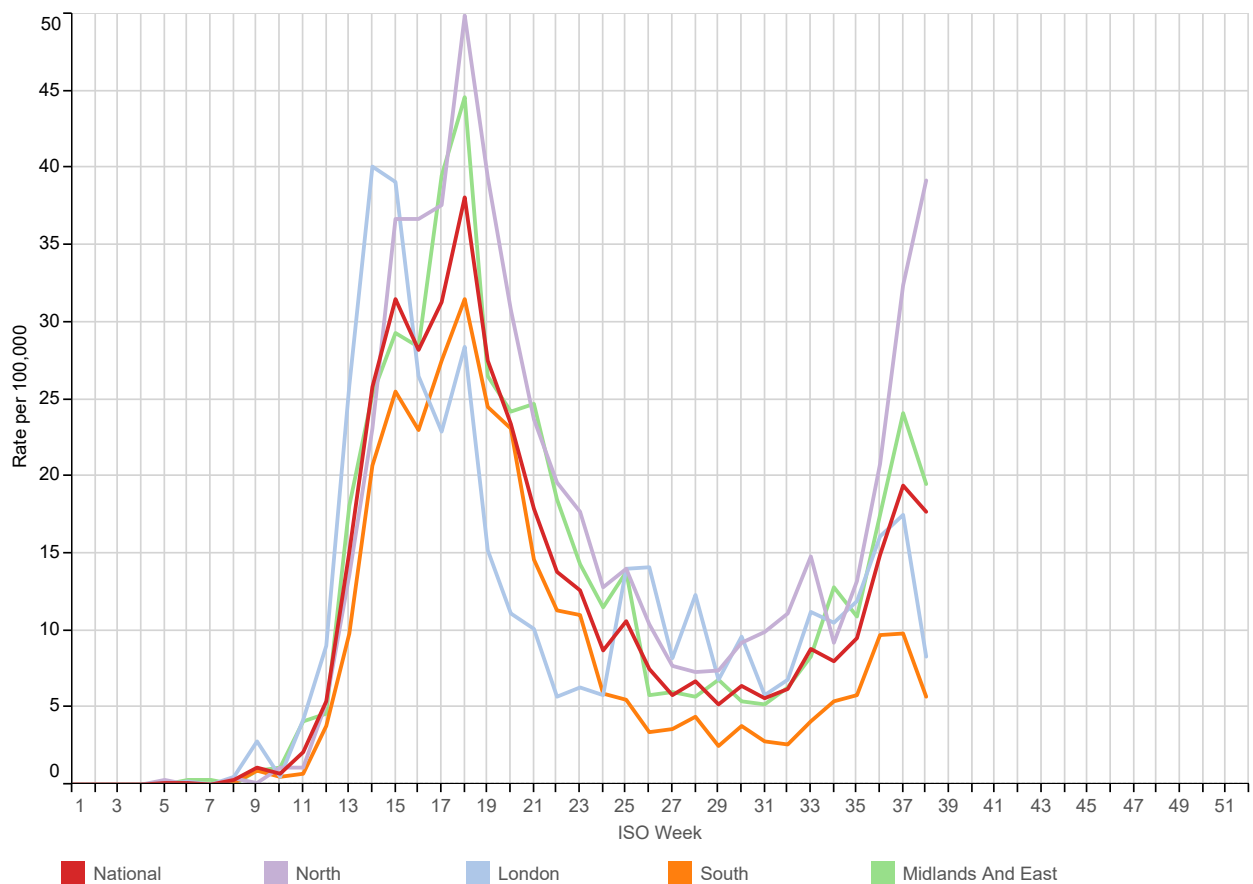


* The rolling average line (blue) is based on 5 year historic RCGP RSC level (Graph A). The weekly virology samples displayed are offset from the ISO Week (Graphs B & C).

(C) RCGP/PHE RSV, Influenza and SARS-CoV-2 Virology Swab Surveillance 2020 by viral strain***(D) Influenza-like illness: national incidence rate 2020 by age group***

(E) Acute Bronchitis: national incidence rate 2020 by age group***Weekly Influenza-like illness and Acute Bronchitis incidence rates per 100,000 persons**

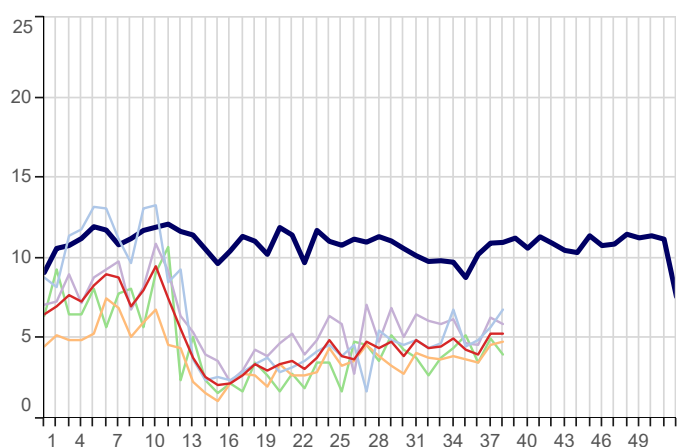
Influenza-like illness		Bronchitis	Influenza-like illness		Bronchitis
<1yr	5.8	75.2	London	2.0	8.7
1-4yrs	2.9	25.3	North	1.8	33.6
5-14yrs	3.6	13.9	South	1.4	15.2
15-24yrs	2.0	7.5	Midlands And East	2.4	23.2
25-44yrs	1.7	14.1	National	1.8	20.5
45-64yrs	1.6	19.0			
65-74yrs	0.0	32.3			
75-84yrs	0.8	42.7			
85+yrs	0.0	72.2			
All ages	1.8	20.5			

(F) COVID-19 : national incidence rate 2020 by age group***(G) COVID-19 : national incidence rate 2020 by region***

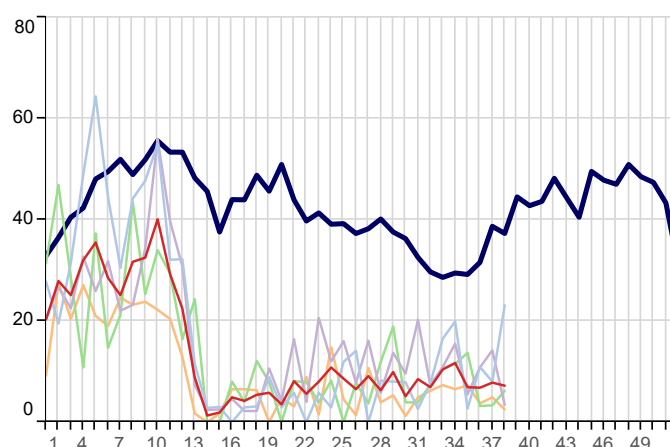
1. Water & Food Borne Disorders:

5yr Avg National London North South Midlands And East

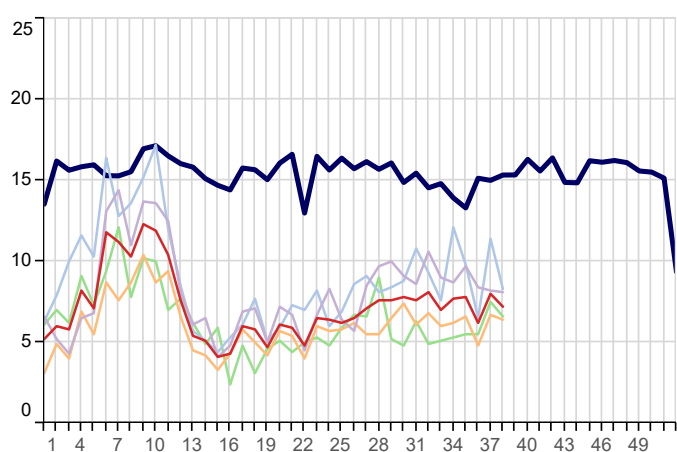
Infectious Intestinal Disease (ICD10: A00-A09)
Weekly incidence (per 100,000 **all ages**) by regions
for 2020 compared with 5 year average



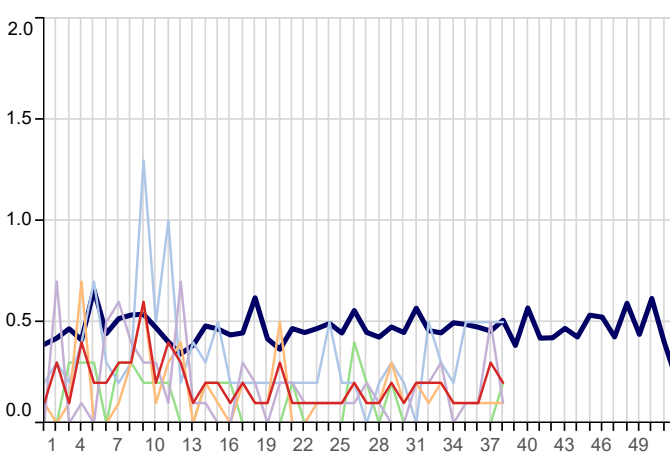
Infectious Intestinal Disease (ICD10: A00-A09)
Weekly incidence (per 100,000 **0-4 years**) by regions
for 2020 compared with 5 year average



Non-Infective Enteritis & Colitis (ICD10: K50-K52)
Weekly incidence (per 100,000 **all ages**) by region
for 2020 compared with 5 year average



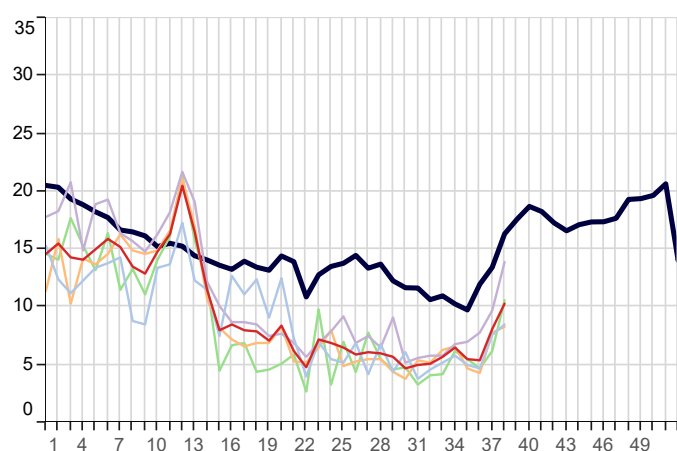
Viral Hepatitis (ICD10: B15-B19)
Weekly incidence (per 100,000 **all ages**) by region
for 2020 compared with 5 year average



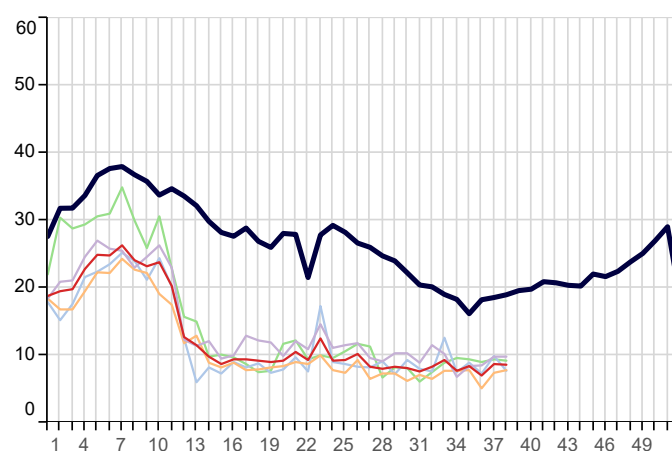
2. Environmentally Sensitive Disorders:

5yr Avg National London North South Midlands And East

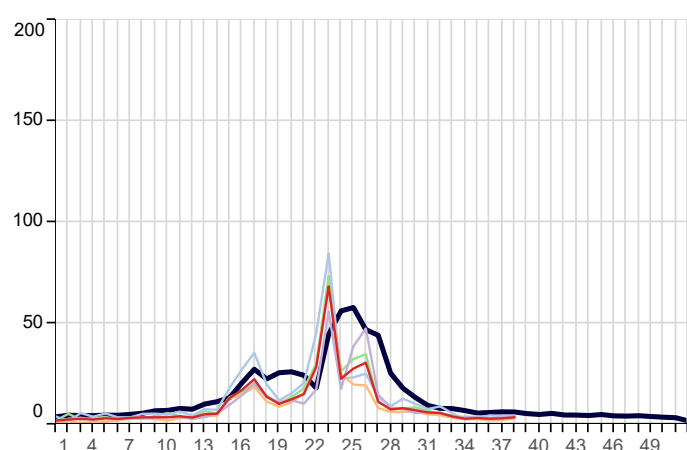
Asthma (ICD10: J45-J46)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



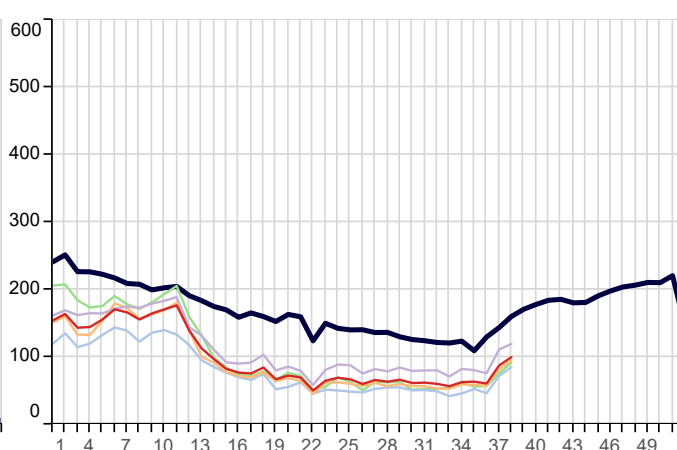
Disorders of Conjunctiva (ICD10: H10-H13)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



Hayfever/Allergic Rhinitis (ICD10: J30)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



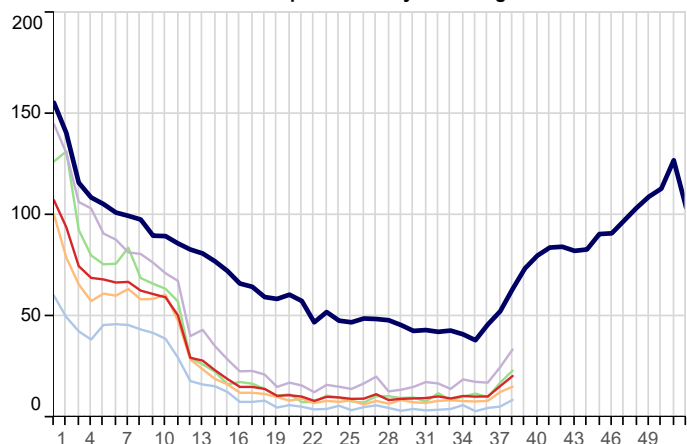
Symptoms involving Respiratory & Chest (ICD10: R05-R07,R09)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



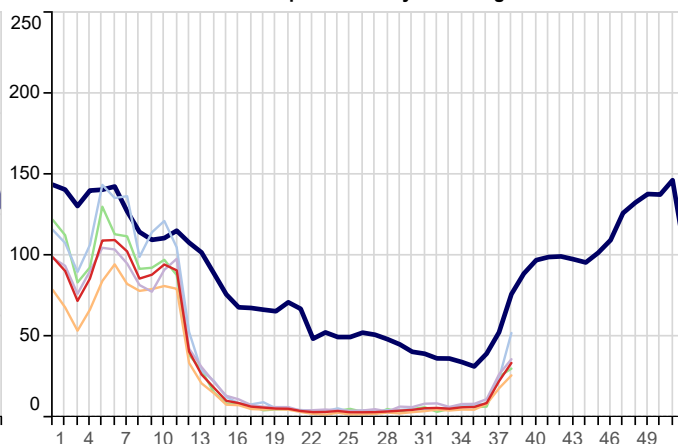
3. Respiratory Infections:

5yr Avg National London North South Midlands And East

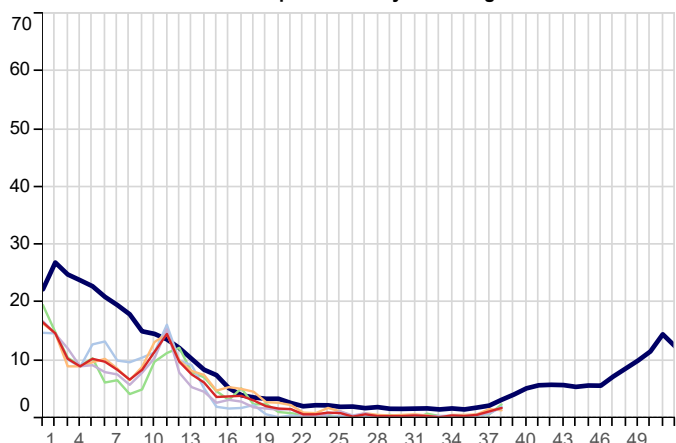
Acute Bronchitis (ICD10: J20-J21,J40)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



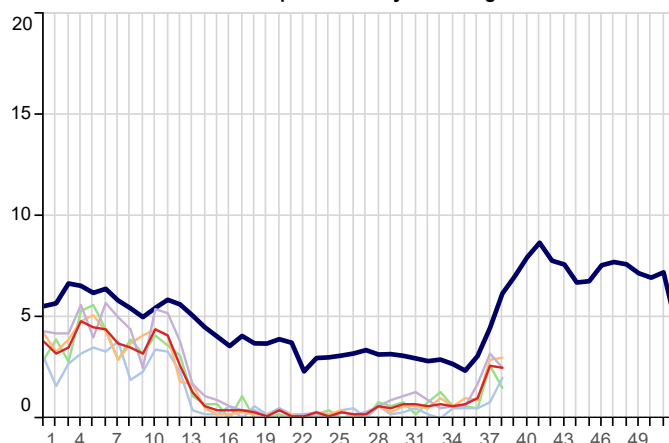
Common Cold (ICD10: J00,J06)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



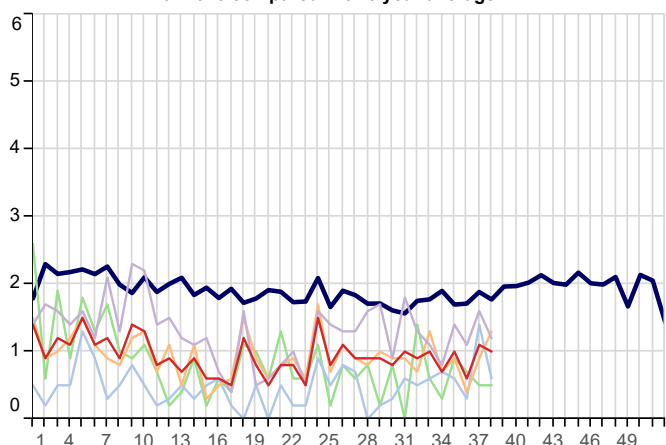
Influenza-like illness (ICD10: J09-J11)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



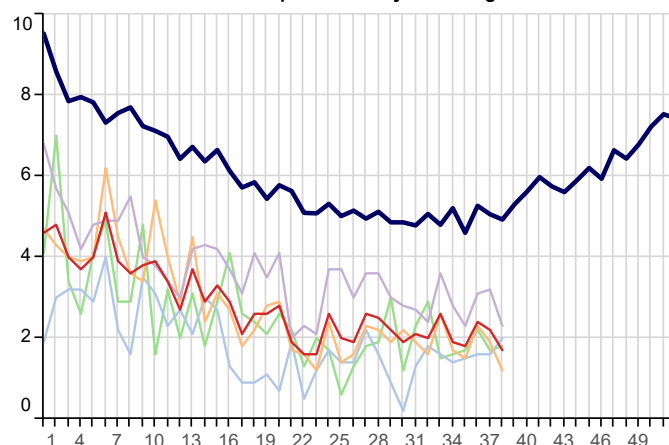
Acute Laryngitis/Tracheitis (ICD10: J04)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



Pleurisy (ICD10: R091)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



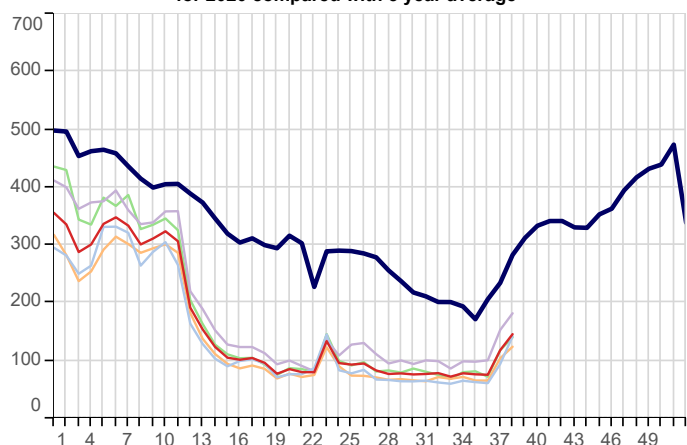
Pneumonia/Pneumonitis (ICD10: J12-J18)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



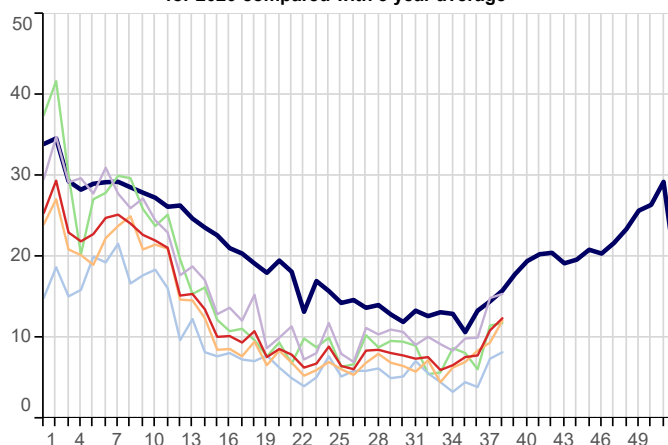
3. Respiratory Infections(Continued):

5yr Avg National London North South Midlands And East

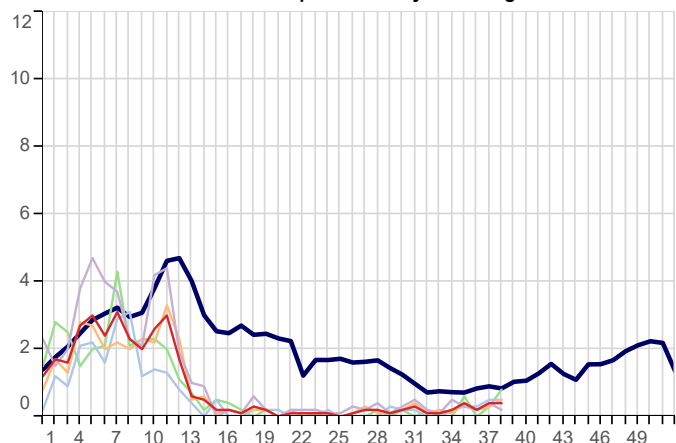
Respiratory System Diseases (ICD10: J00-J99)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



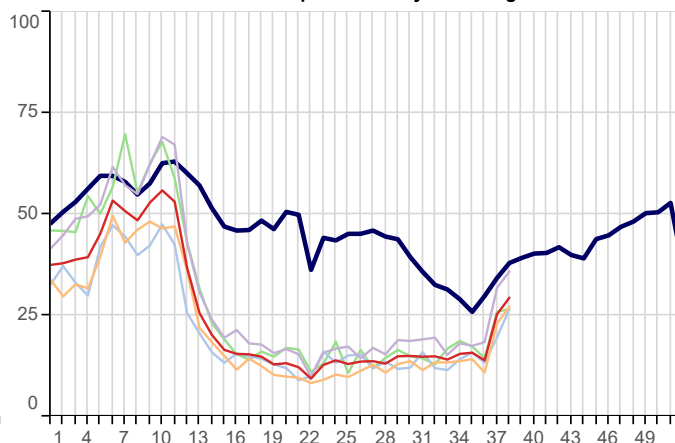
Acute Sinusitis (ICD10: J01)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



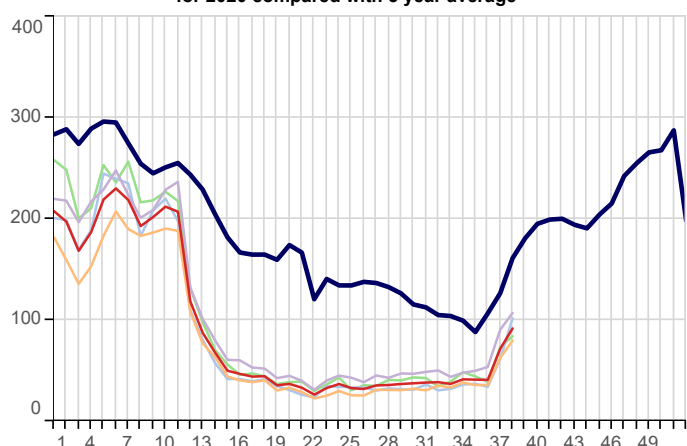
Strep Sore Throat, Scarletina and Peritonsillar Abscess (ICD10: A38,J02,J36)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



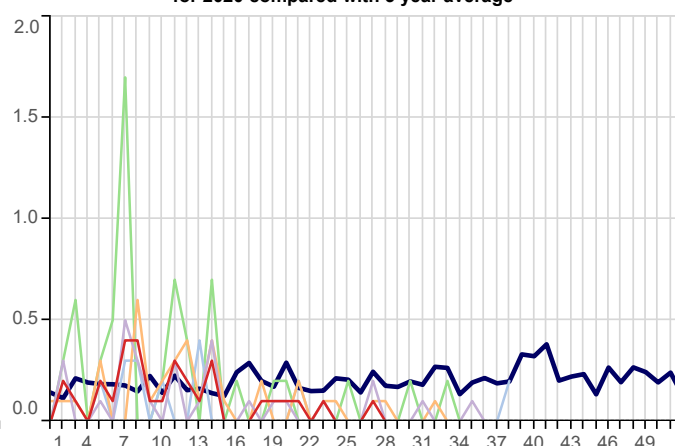
Acute Tonsillitis/Pharyngitis (ICD10: J02-J03)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



Upper Respiratory Tract Infections (URTI)(ICD10: J00-J06)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



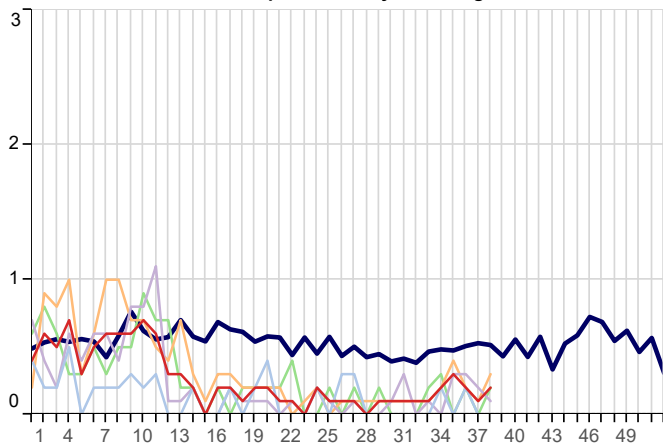
Whooping Cough (ICD10: A37)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



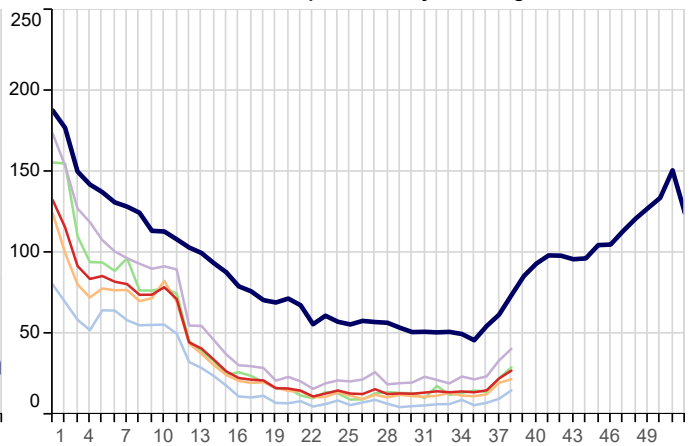
3. Respiratory Infections(Continued):

5yr Avg National London North South Midlands And East

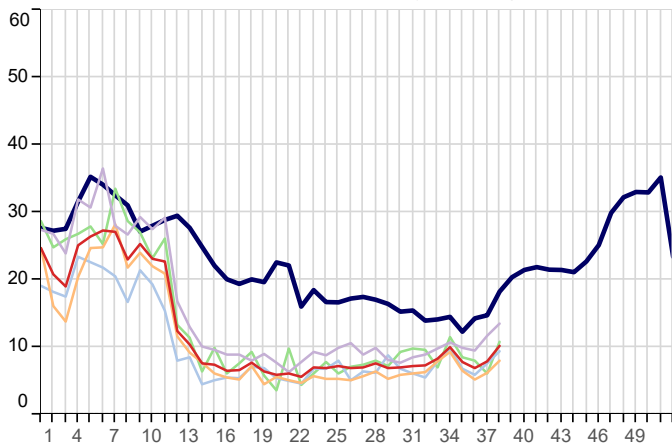
Infectious Mononucleosis (ICD10: B27)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



Lower Respiratory Tract Infections (LRTI)(ICD10: J20-J22)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



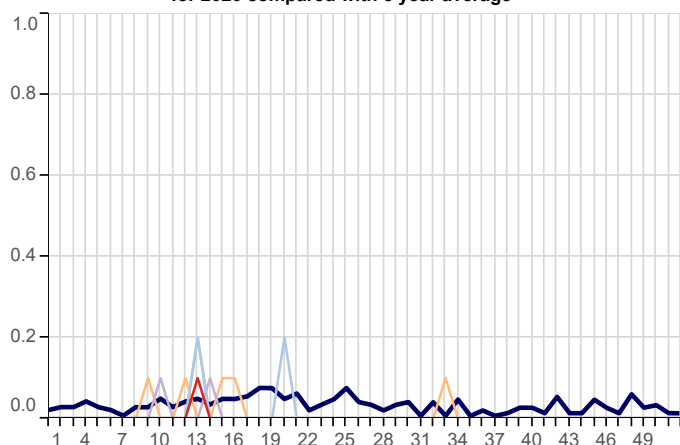
Acute Otitis Media (ICD10: H650-H651,H660,H669)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



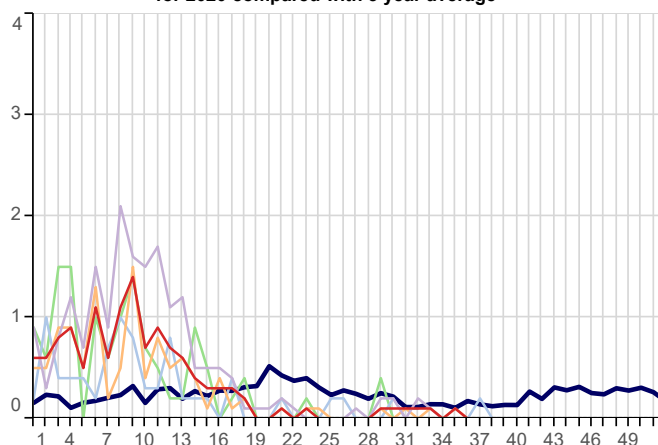
4. Vaccine Sensitive Disorders

5yr Avg National London North South Midlands And East

Measles (ICD10: B05)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



Mumps (ICD10: B26)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average

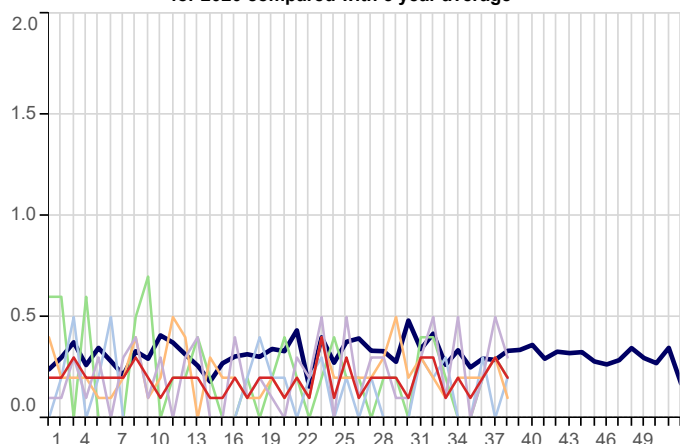


Rubella (ICD10: B06)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average

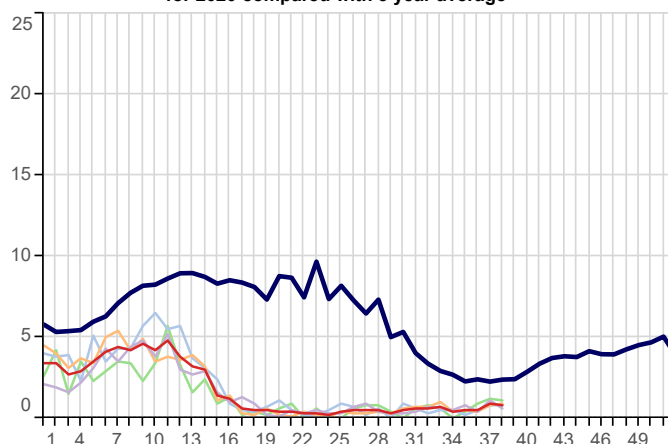


5. Skin Contagions

Bullous Dermatoses (ICD10: L10-L14)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



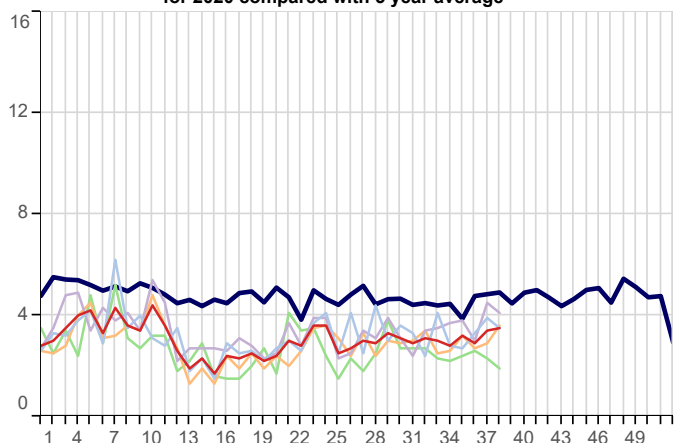
Chickenpox (ICD10: B01)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



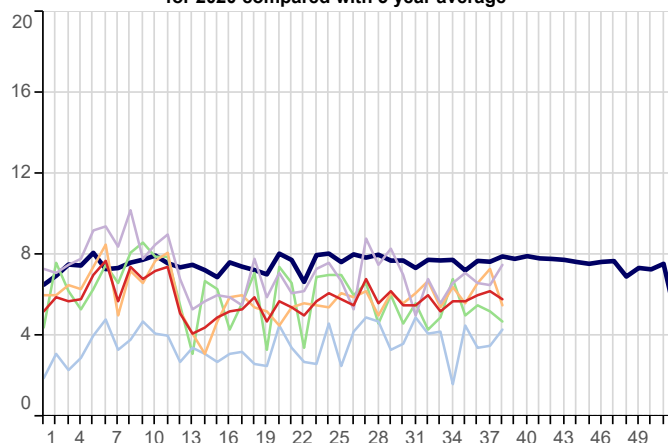
5. Skin Contagions (Continued)

5yr Avg National London North South Midlands And East

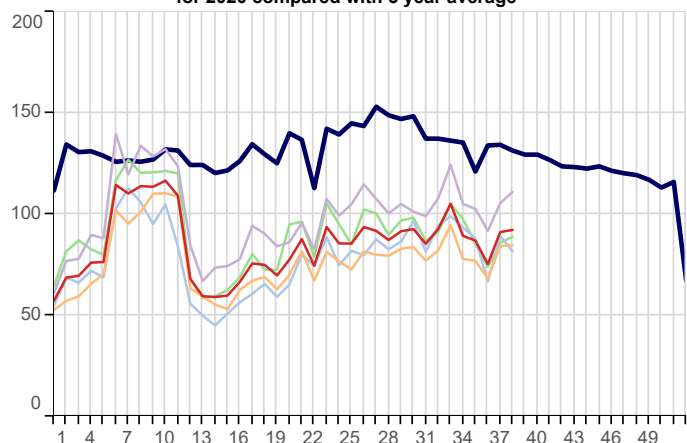
Herpes Simplex (ICD10: B00)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



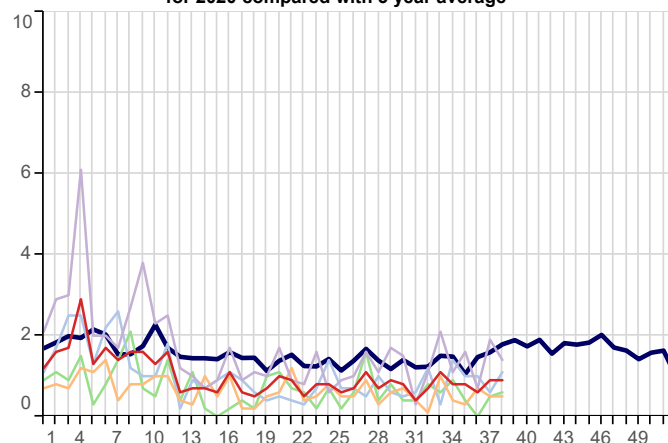
Herpes Zoster (ICD10: B02)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



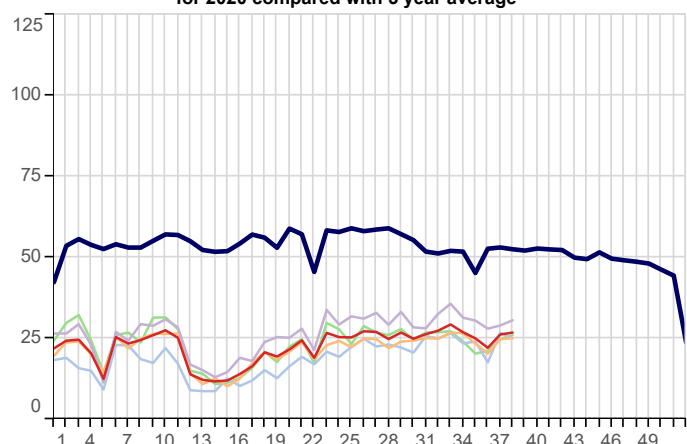
Infections of Skin & Subcutaneous Tissue (ICD10: L00-L08)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



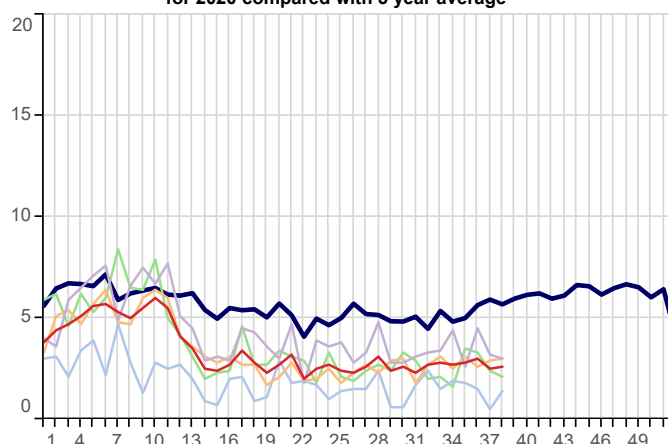
Scabies (ICD10: B86)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



Symptoms involving Skin & Oth Integument Tiss (ICD10: R20-R23)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



Impetigo (ICD10: L01)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



6. Disorders Affecting the Nervous System

5yr Avg

National

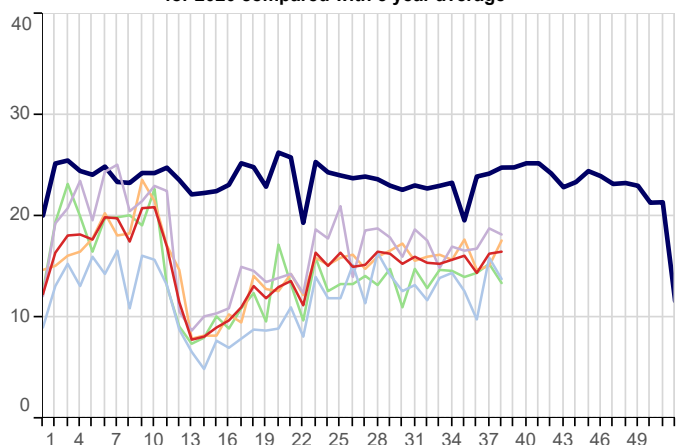
London

North

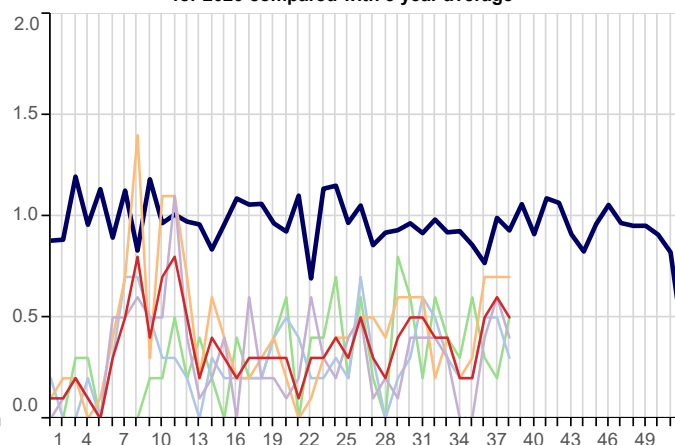
South

Midlands And East

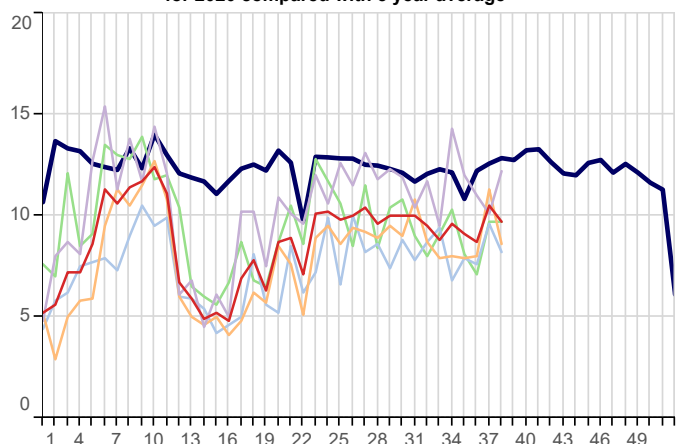
Disorders of The Peripheral Nervous System (ICD10: G50-G64,G70-G72)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



Meningitis/Encephalitis (ICD10: A170-A171,A390,A38-A85,A87,G00-G05)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average

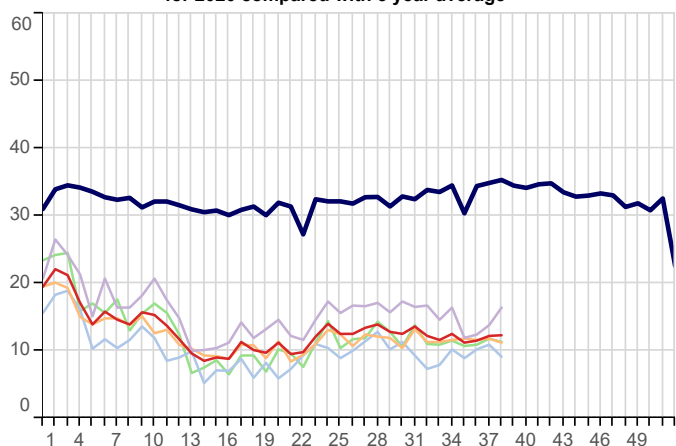


Symptoms Involving Nervous & Musculoskeletal (ICD10: R25-R29)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



7. Genitourinary System Disorders

Urinary Tract Infection/Cystitis (ICD10: N30,N390)
Weekly incidence (per 100,000 all ages) by region
for 2020 compared with 5 year average



8. Tabular Summary by Disease

Disease Name	Week beginning Week ending		14/09/2020 20/09/2020		07/09/2020 13/09/2020		31/08/2020 06/09/2020		24/08/2020 30/08/2020	
	Rate	Numer	Rate	Numer	Rate	Numer	Rate	Numer	Rate	Numer
Allergic Rhinitis	3.6	145	3.1	122	2.9	112	3.2	126		
Asthma	10.3	413	8.1	321	5.4	211	5.5	214		
Bronchitis	20.5	824	15.5	618	10.4	406	10.3	401		
Bullous Dermatoses	0.2	7	0.3	12	0.2	9	0.1	4		
Chickenpox	0.8	34	0.9	37	0.5	19	0.5	20		
Common Cold	33.7	1,355	22.4	892	8.9	350	6.5	254		
Conjunctival Disorders	8.6	344	8.7	348	7.0	273	8.4	325		
Herpes Simplex	3.5	139	3.4	136	2.9	112	3.2	124		
Herpes Zoster	5.8	231	6.2	245	6.0	233	5.7	223		
Impetigo	2.6	105	2.5	101	3.0	119	2.8	109		
Infectious Mononucleosis	0.2	7	0.1	3	0.2	8	0.3	10		
Influenza-like illness	1.8	71	1.2	46	0.6	25	0.4	17		
Infectious Intestinal Diseases	5.3	214	5.3	211	4.0	157	4.3	167		
Laryngitis and Tracheitis	2.5	99	2.6	103	1.0	38	0.7	28		
Lower Respiratory Tract Infections	27.2	1,091	22.3	887	15.0	586	13.8	537		
Measles	0.0	0	0.0	0	0.0	0	0.0	0		
Meningitis and Encephalitis	0.5	21	0.6	23	0.5	20	0.2	9		
Mumps	0.0	0	0.0	1	0.0	0	0.1	2		
Non-infective Enteritis and Colitis	7.2	290	8.0	317	6.2	241	7.8	303		
Otitis Media Acute	10.2	410	7.9	315	6.9	270	7.8	301		
Peripheral Nervous Disease	16.5	662	16.3	648	14.4	565	16.1	623		
Pleurisy	1.0	41	1.1	45	0.6	25	1.0	39		
Pneumonia and Pneumonitis	1.7	70	2.2	86	2.4	94	1.8	68		
Respiratory System Diseases	146.1	5,867	118.4	4,714	75.8	2,965	76.6	2,971		
Rubella	0.0	0	0.0	0	0.0	0	0.0	0		
Scabies	0.9	35	0.9	36	0.6	25	0.8	30		
Sinusitis	12.4	496	10.9	433	7.8	305	7.6	294		
Skin and Subcutaneous Tissue Infections	92.3	3,707	91.2	3,630	75.4	2,951	87.0	3,375		
Strep Throat and Peritonsillar Abscess	0.4	18	0.4	14	0.2	8	0.4	14		
Symptoms involving musculoskeletal	9.7	390	10.5	417	8.7	339	9.1	352		
Symptoms involving Respiratory and Chest	100.0	4,013	87.5	3,483	60.9	2,383	63.6	2,466		
Symptoms involving Skin and Integument Tissues	26.8	1,075	26.2	1,045	22.1	865	25.0	970		
Tonsillitis and acute Pharyngitis	29.4	1,182	25.3	1,007	13.9	543	15.8	612		
Upper Respiratory Tract Infections	91.8	3,687	71.7	2,856	41.0	1,605	41.2	1,596		
Urinary Tract Infections	12.3	495	12.2	485	11.5	450	11.2	435		
Viral Hepatitis	0.2	7	0.3	11	0.1	5	0.1	5		
Whooping Cough	0.0	1	0.0	0	0.0	0	0.0	1		
Practice Count		393		388		376		369		
Denom		4,014,997		3,981,414		3,914,073		3,878,411		

FURTHER INFORMATION:

About the report

Summer focus

The first two pages of data within this report focus on Influenza-like illness and COVID-19, in order to provide information about seasonal influenza and early warnings 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 2014-2018. 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 2006/07- 2016/17 excluding 2009/10).

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

Acknowledgement:

Staff from the Data Science department at the National Physical Laboratory (<https://www.npl.co.uk/data-science>) assisted in the provision of and extension of the primary care national surveillance reports during the 2020 SARS-CoV-2 pandemic; as well as adding resilience.

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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