



RSC Communicable and Respiratory Disease Report for England

Key Statistics:

Week Number/Year.....	40/2019
Week Starting - Ending.....	30/09/2019 - 06/10/2019
No. of Practices.....	277
Population.....	2,846,472

National (England)

- **Acute Bronchitis** : increased from **63.5** in week 39 to **69.7** in week 40.
- **Asthma** : increased a little from **15.5** in week 39 to **16.0** in week 40.
- **Common Cold** : increased from **79.6** in week 39 to **86.1** in week 40.
- **Influenza Like illness** : increased from **2.6** in week 39 to **4.3** in week 40.
- **Respiratory System Diseases** : increased from **271.0** in week 39 to **289.0** in week 40.

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

- **Acute Bronchitis** : increased from **37.7** in week 39 to **40.2** in week 40 in the London region, increased a little from **94.4** in week 39 to **98.7** in week 40 in the North region, increased from **53.0** in week 39 to **57.8** in week 40 in the South region, and increased from **64.4** in week 39 to **83.2** in week 40 in the Midlands And East region.
- **Asthma** : was unchanged at **15.3** in week 39 compared with **15.5** in week 40 in the London region, decreased from **19.3** in week 39 to **17.8** in week 40 in the North region, increased a little from **14.4** in week 39 to **14.9** in week 40 in the South region, and increased from **11.1** in week 39 to **15.8** in week 40 in the Midlands And East region.
- **Common Cold** : increased from **94.6** in week 39 to **107.5** in week 40 in the London region, increased from **91.8** in week 39 to **99.9** in week 40 in the North region, was unchanged at **57.9** in week 39 compared with **59.1** in week 40 in the South region, and increased from **91.6** in week 39 to **99.4** in week 40 in the Midlands And East region.
- **Influenza Like illness** : increased from **4.2** in week 39 to **4.8** in week 40 in the London region, was unchanged at **3.4** in week 39 compared with **3.4** in week 40 in the North region, increased from **1.8** in week 39 to **4.8** in week 40 in the South region, and increased from **1.2** in week 39 to **3.7** in week 40 in the Midlands And East region.
- **Respiratory System Diseases** : increased from **238.1** in week 39 to **256.2** in week 40 in the London region, increased from **339.9** in week 39 to **361.6** in week 40 in the North region, increased from **225.4** in week 39 to **237.7** in week 40 in the South region, and increased from **297.9** in week 39 to **321.5** in week 40 in the Midlands And East region.

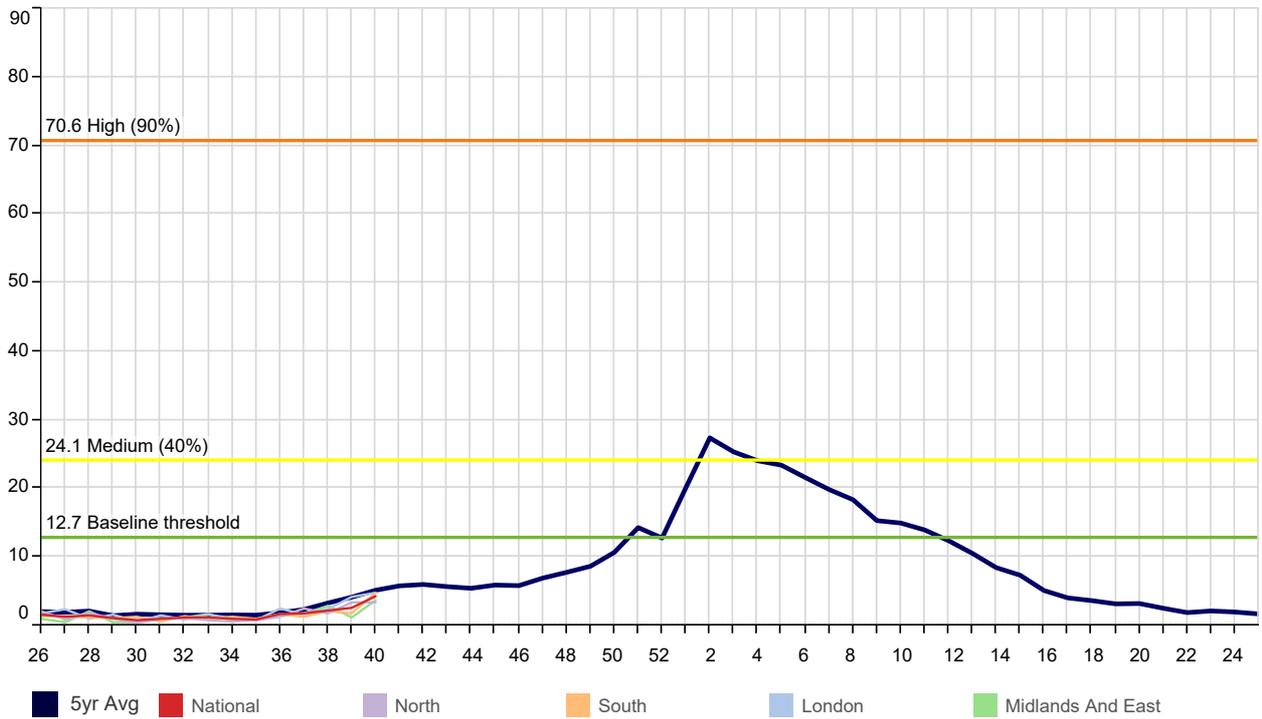
Comment:

The increase in respiratory system diseases seen this week is in line with those anticipated at this time of year.

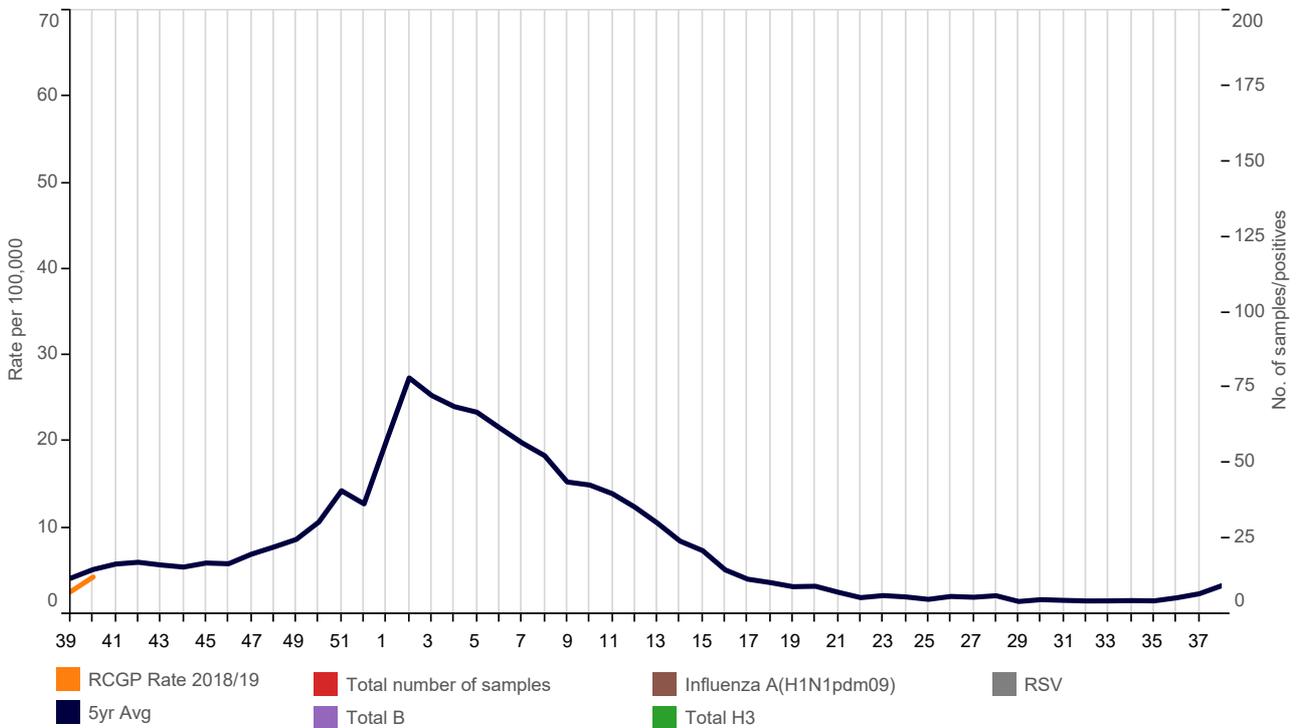
Winter Focus 2018/19

Please see page 13 for explanatory notes on the data.

(A) Influenza-like illness: incidence rate winter 2019/20*

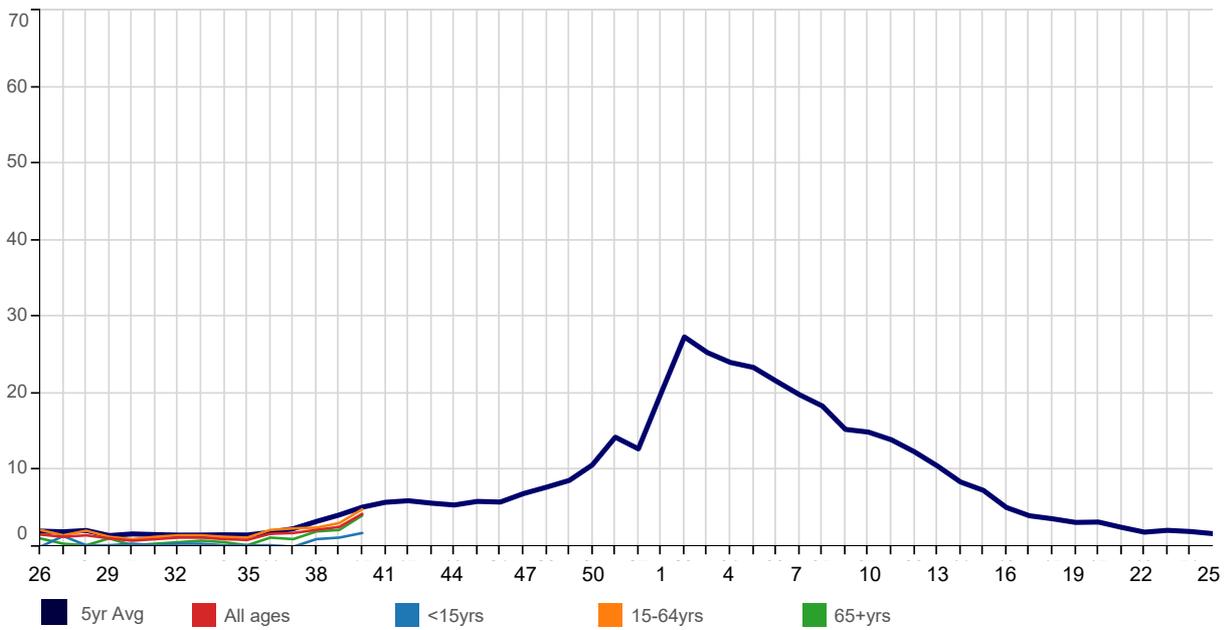


(B) RCGP/PHE RSV and Influenza Virology Swab Surveillance 2019/20(all ages, gender & regions combined)*



* The thresholds used are the agreed RCGP/ Public Health England levels for 2019/20. The rolling average line(blue) is based on 5 year historic RCGP RSC level.

(C) Influenza-like illness: national incidence rate 2019/2020 by age group*



(D) Influenza-like illness: national incidence rate 2019/2020 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	1.8																
15-64yrs	4.9																
65+yrs	4.1																
All ages	4.3																

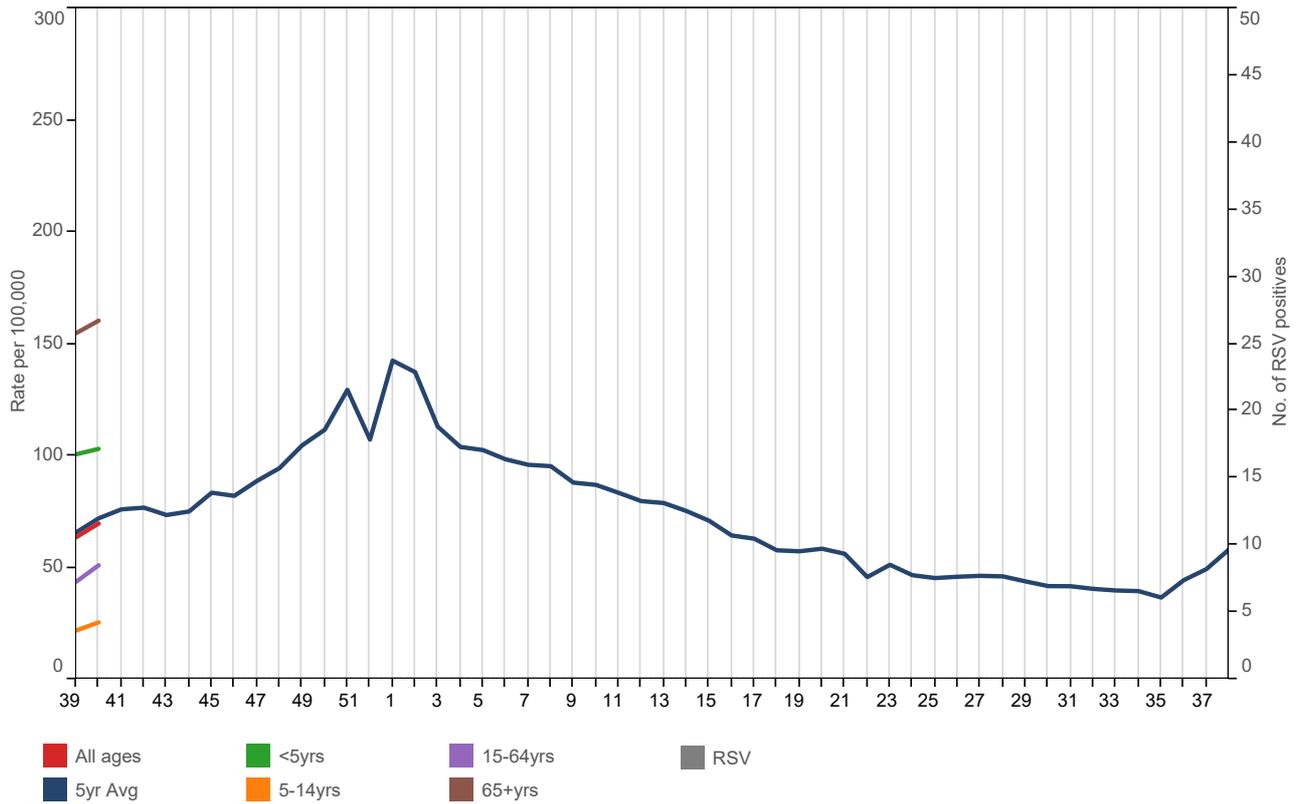
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<15yrs																
15-64yrs																
65+yrs																
All ages																

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	<10.7	10.7 to <18.1	18.1 to <49.9	49.9 to <78.1	78.1+	¹ Below baseline threshold
15-64	<14.8	14.8 to <28.9	28.9 to <69.6	69.6 to <102.7	102.7+	² baseline threshold breach to < 40th percentile
65+	<11.8	11.8 to <17.9	17.9 to <43.3	43.3 to <64.0	64.0+	³ 40th to <90th percentile
All Ages	<12.7	12.7 to <24.1	24.1 to <70.6	70.6 to <113.6	113.6+	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	Bronchitis		Influenza-like illness	Bronchitis
<1yr	0.0	102.7	London	4.8	40.2
1-4yrs	1.6	103.1	North	3.4	98.7
5-14yrs	2.1	25.4	South	4.8	57.8
15-24yrs	5.0	34.3	Midlands And East	3.7	83.2
25-44yrs	5.3	37.1	National	4.3	69.7
45-64yrs	4.5	74.6			
65-74yrs	4.9	127.1			
75-84yrs	4.4	170.9			
85+yrs	0.0	264.9			
All ages	4.3	69.7			

(E) Acute Bronchitis: national incidence rate 2019/2020 by age group*



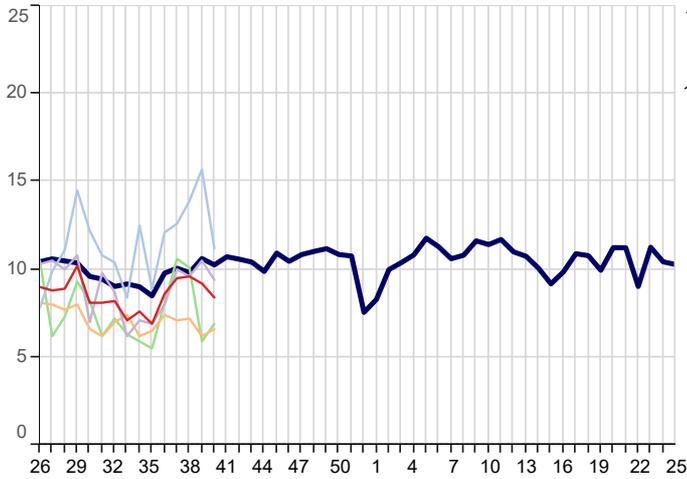
Weekly Influenza-like illness and Acute Bronchitis incidence rates per 100,000 persons

	Influenza-like illness	Bronchitis
<5yrs	1.3	103.0
5-14yrs	2.1	25.4
15-64yrs	4.9	51.0
65+yrs	4.1	160.4
All ages	4.3	69.7

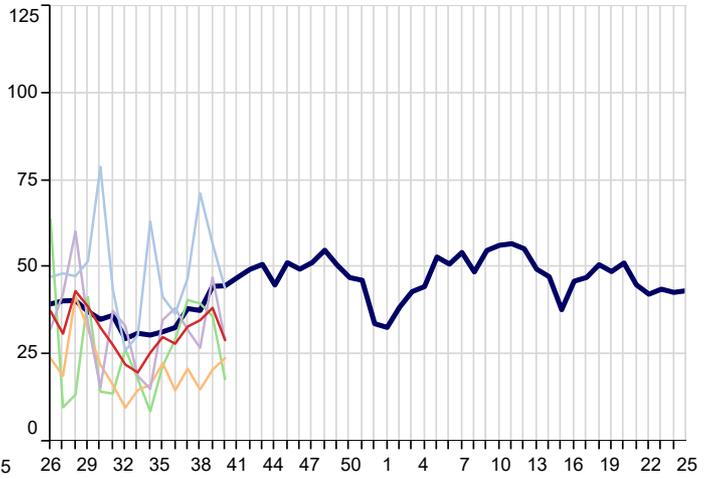
1. Water & Food Borne Disorders:

5yr Avg National London North South Midlands And East

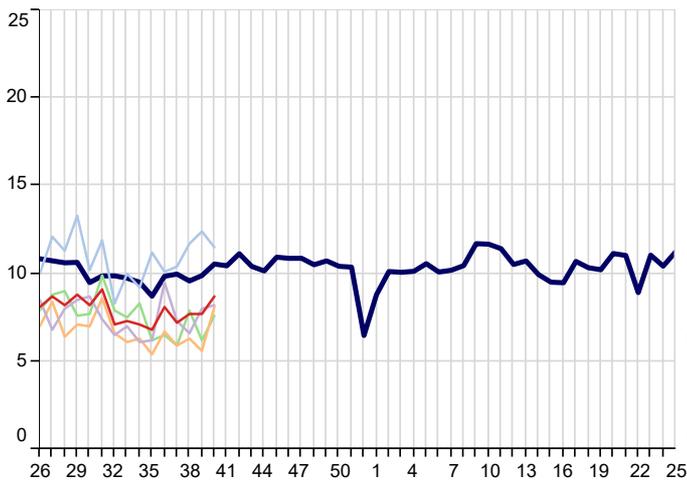
Infectious Intestinal Disease (ICD10: A00-A09)
Weekly incidence (per 100,000 **all ages**) by regions
for 2019/20 compared with 5 year average



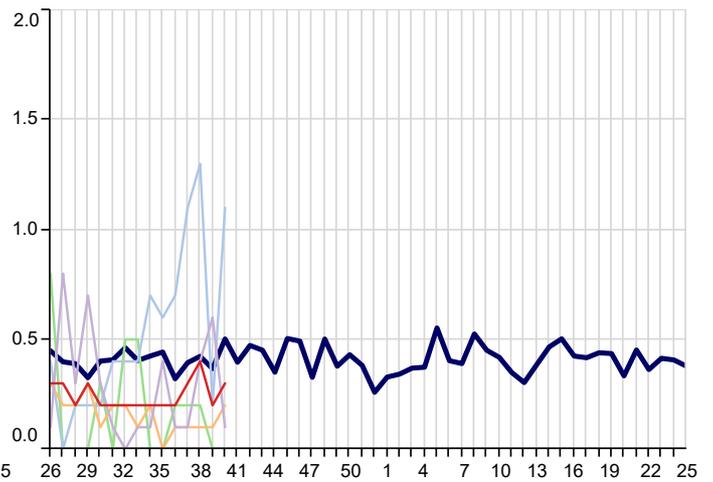
Infectious Intestinal Disease (ICD10: A00-A09)
Weekly incidence (per 100,000 **0-4 years**) by regions
for 2019/20 compared with 5 year average



Non-Infective Enteritis & Colitis (ICD10: K50-K52)
Weekly incidence (per 100,000 all ages) by region
for 2019/20 compared with 5 year average



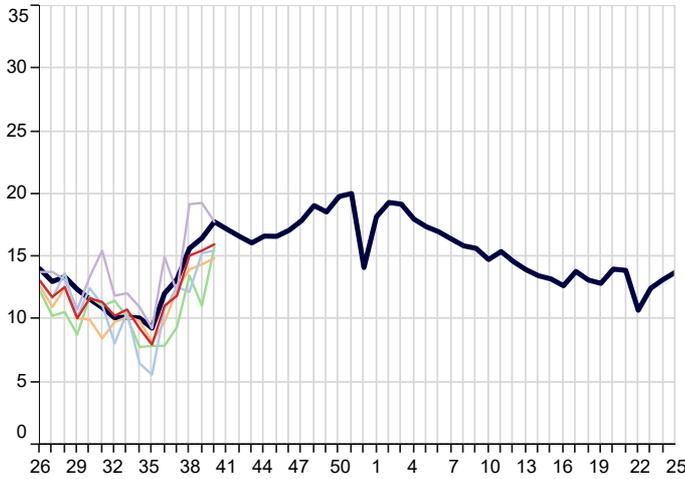
Viral Hepatitis (ICD10: B15-B19)
Weekly incidence (per 100,000 all ages) by region
for 2019/20 compared with 5 year average



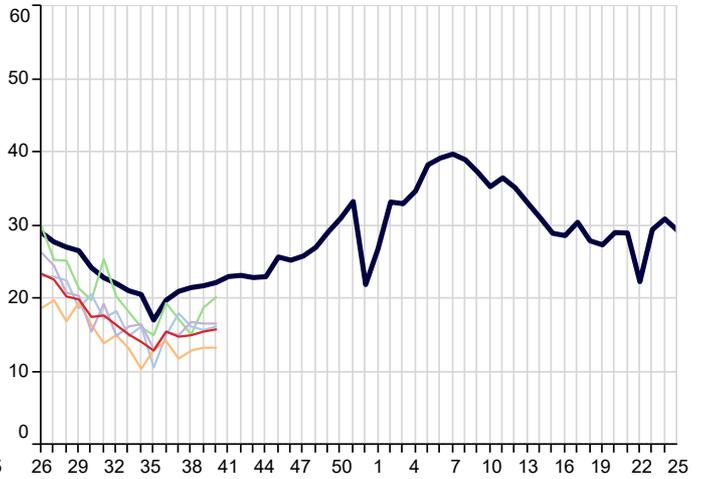
2. Environmentally Sensitive Disorders:

5yr Avg National London North South Midlands And East

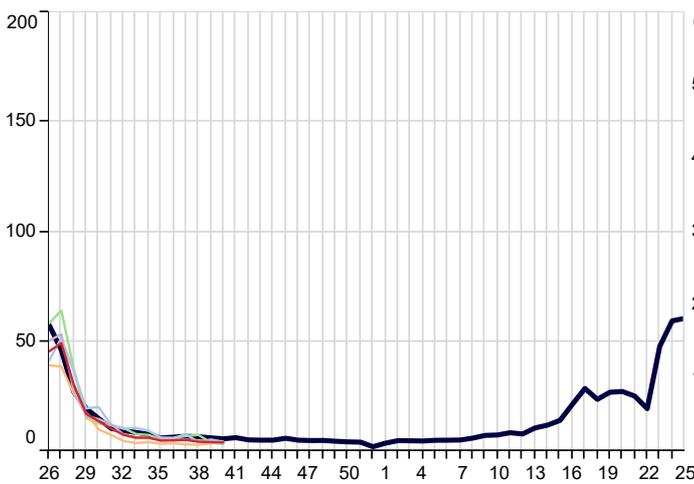
Asthma (ICD10: J45-J46)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



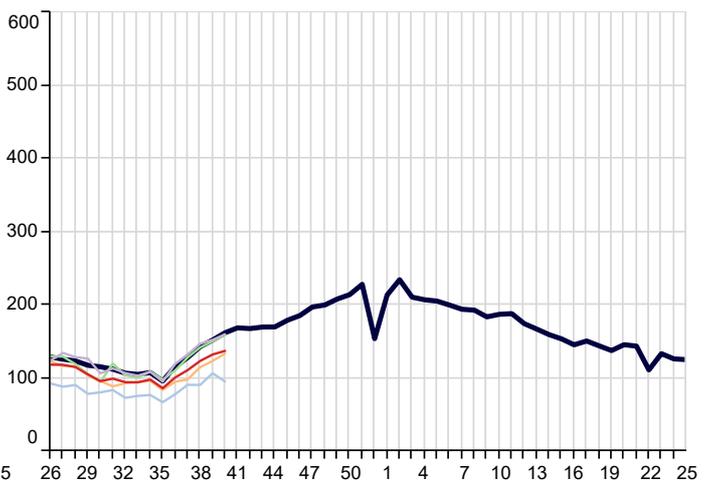
Disorders of Conjunctiva (ICD10: H10-H13)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



Hayfever/Allergic Rhinitis (ICD10: J30)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



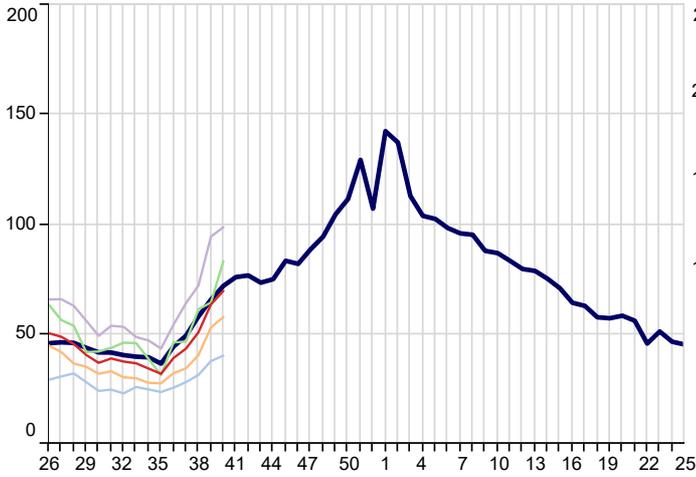
Symptoms involving Respiratory & Chest (ICD10: R05-R07,R09)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



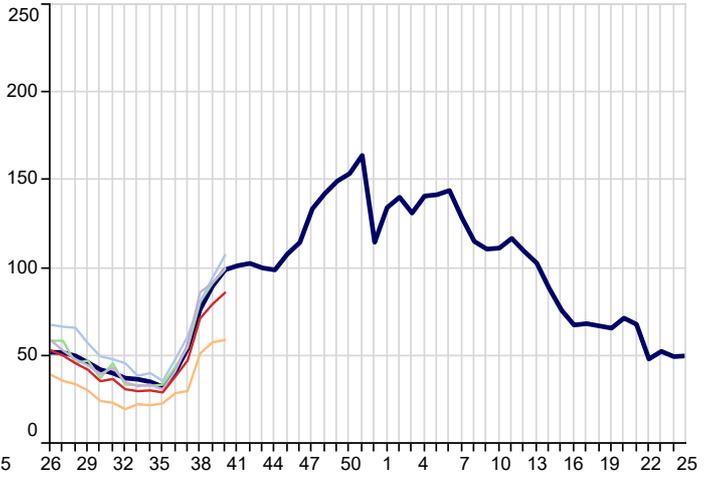
3. Respiratory Infections:

5yr Avg National London North South Midlands And East

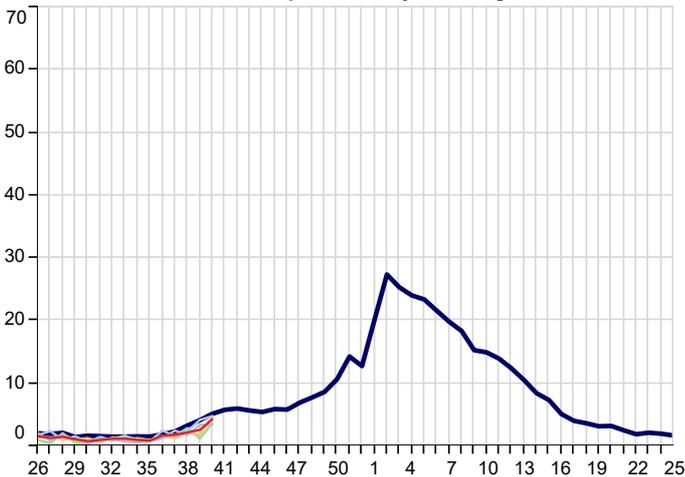
Acute Bronchitis (ICD10: J20-J21,J40)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



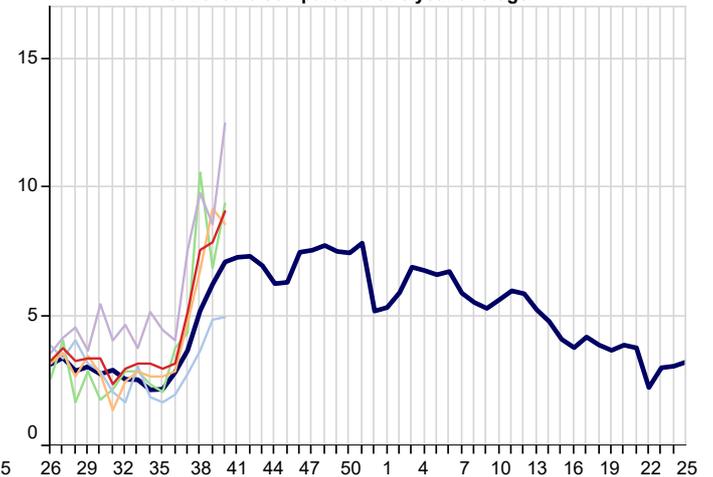
Common Cold (ICD10: J00,J06)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



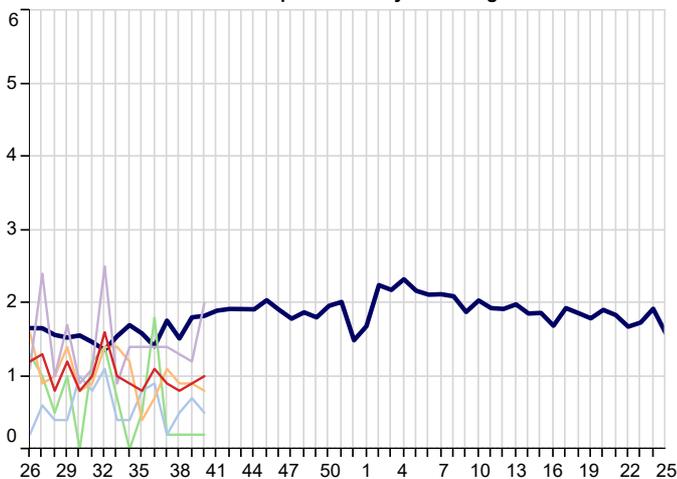
Influenza-Like Illness (ICD10: J09-J11)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



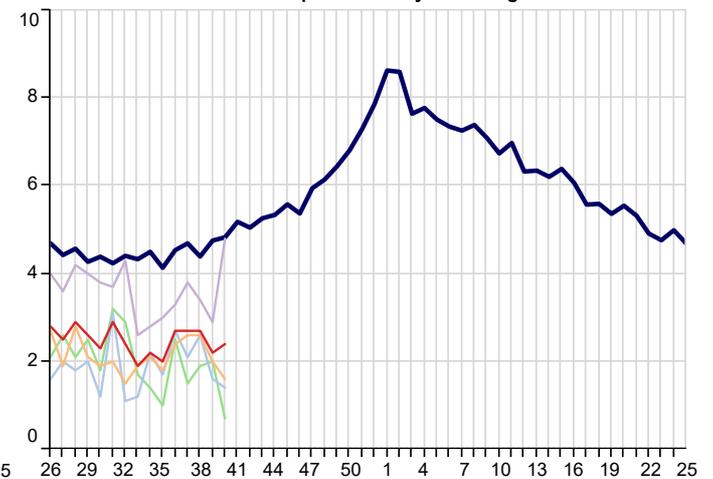
Acute Laryngitis/Tracheitis (ICD10: J04)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



Pleurisy (ICD10: R091)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



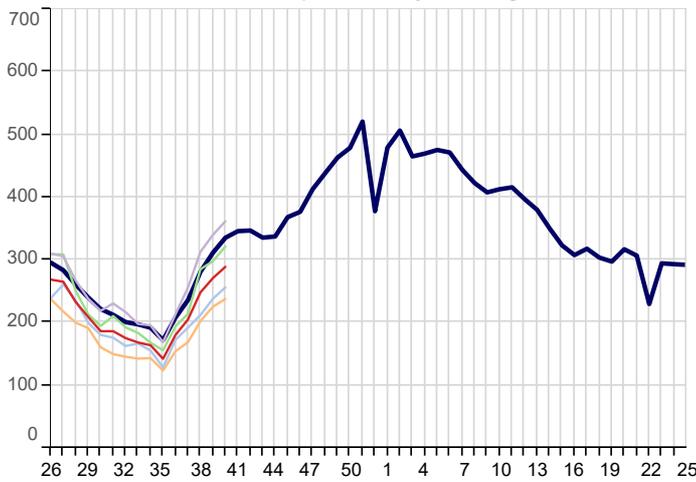
Pneumonia/Pneumonitis (ICD10: J12-J18)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



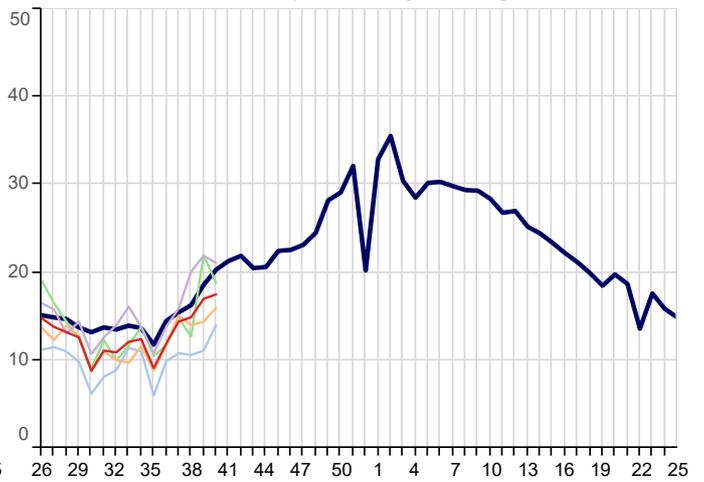
3. Respiratory Infections(Continued):

5yr Avg National London North South Midlands And East

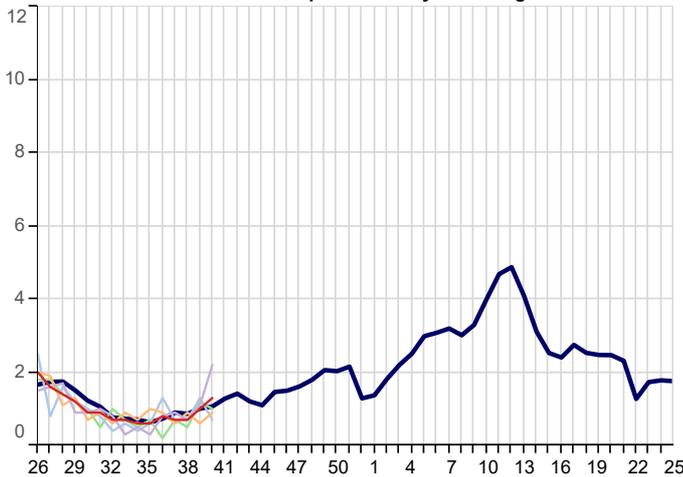
Respiratory System Diseases (ICD10: J00-J99)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



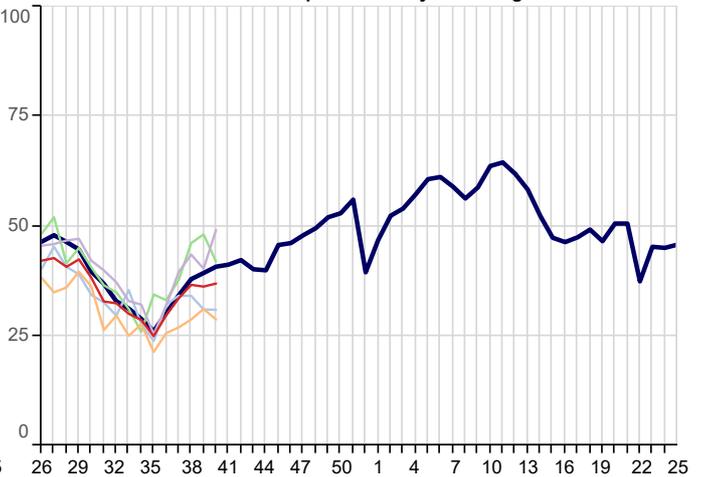
Acute Sinusitis (ICD10: J01)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



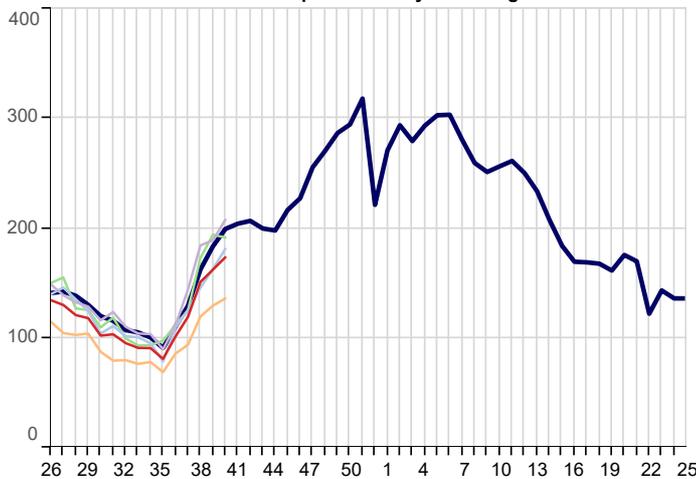
Strep Sore Throat, Scarlatina and Peritonsillar Abscess (ICD10: A38,J020,J36)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



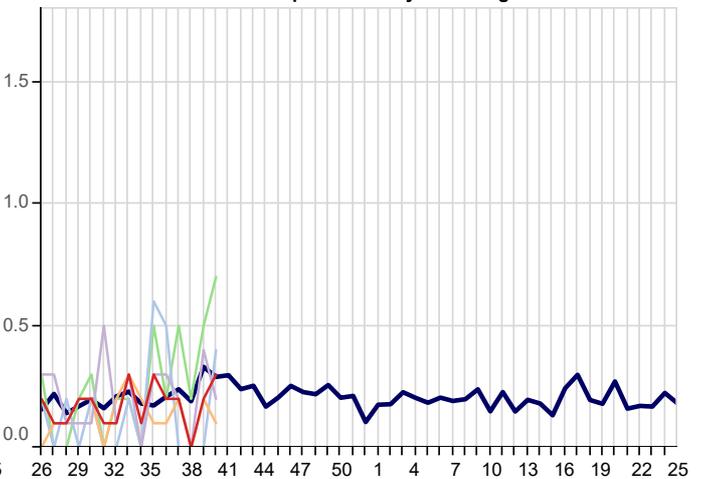
Acute Tonsillitis/Pharyngitis (ICD10: J02-J03)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



Upper Respiratory Tract Infections (URTI)(ICD10: J00-J06)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



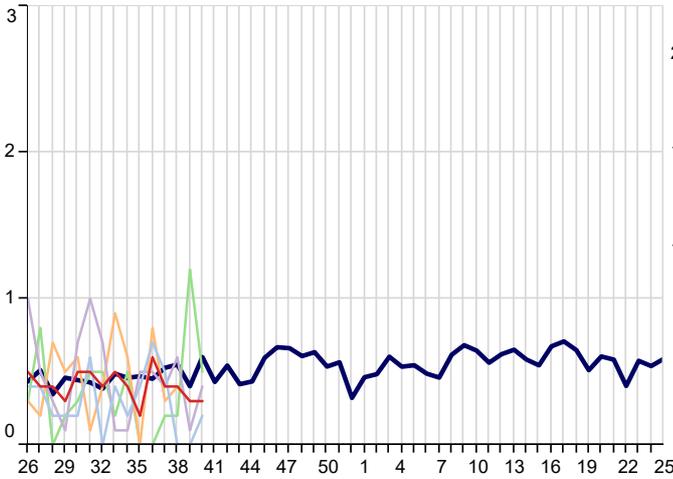
Whooping Cough (ICD10: A37)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



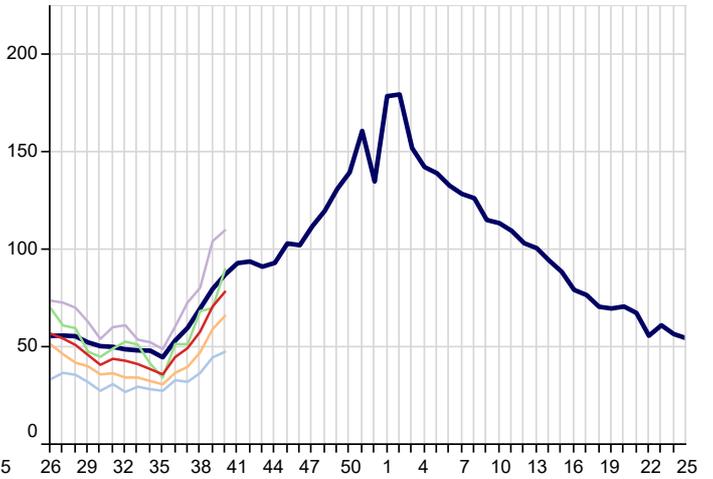
3. Respiratory Infections(Continued):

5yr Avg National London North South Midlands And East

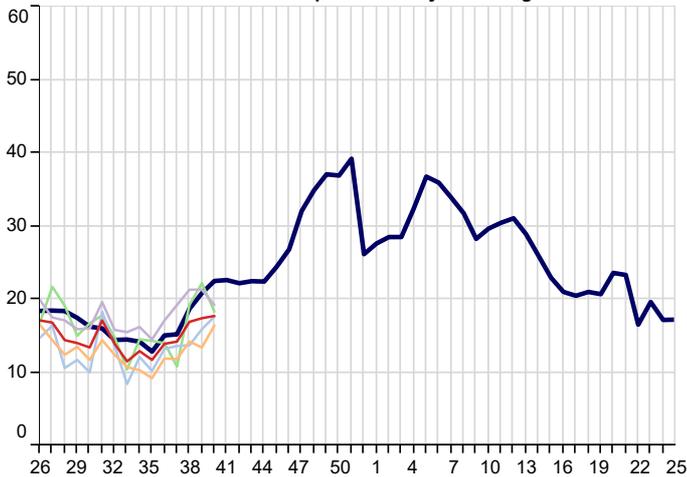
Infectious Mononucleosis (ICD10: B27)
Weekly incidence (per 100,000 all ages) by region
for 2019/20 compared with 5 year average



Lower Respiratory Tract Infections (LRTI)(ICD10: J20-J22)
Weekly incidence (per 100,000 all ages) by region
for 2019/20 compared with 5 year average



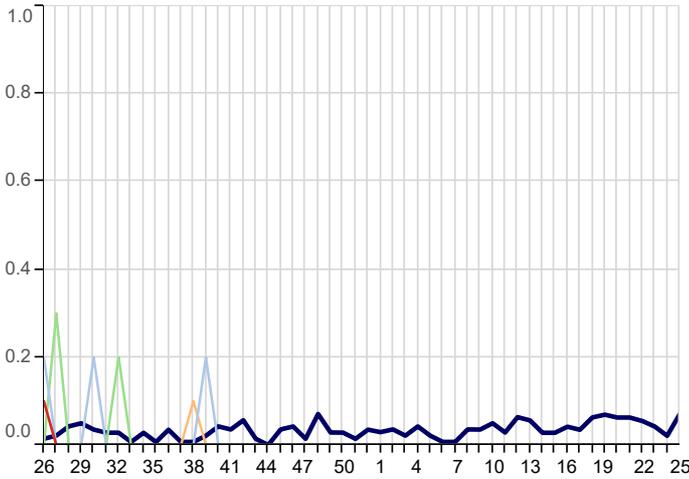
Acute Otitis Media (ICD10: H650-H651,H660,H669)
Weekly incidence (per 100,000 all ages) by region
for 2019/20 compared with 5 year average



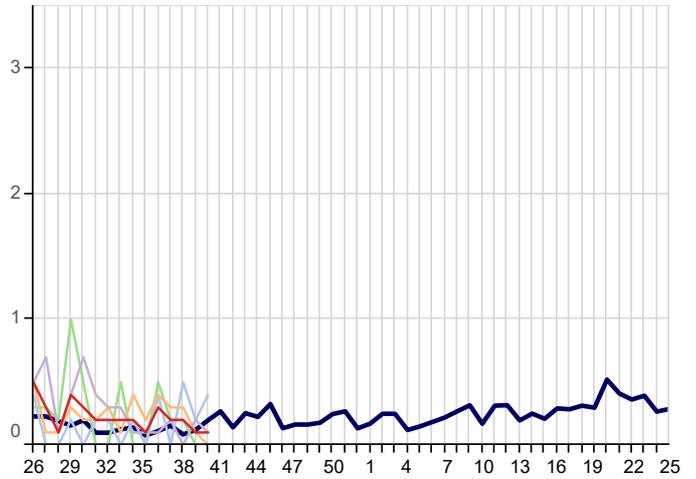
4. Vaccine Sensitive Disorders

5yr Avg National London North South Midlands And East

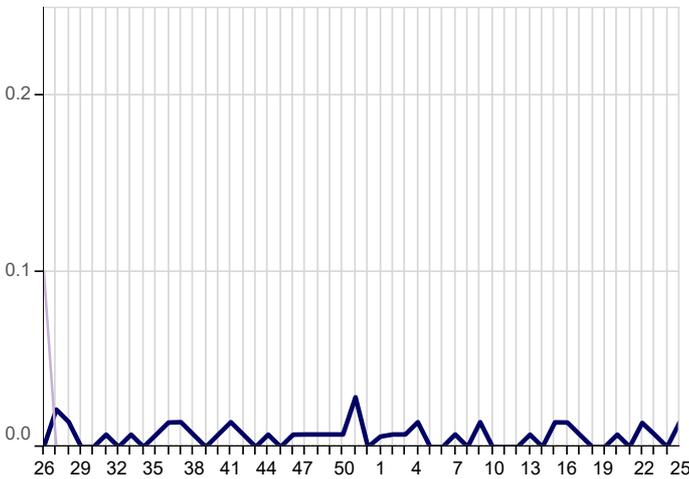
Measles (ICD10: B05)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



Mumps (ICD10: B26)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average

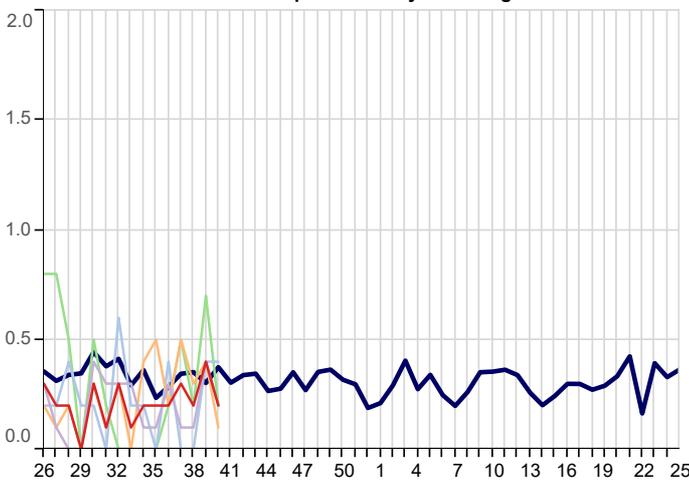


Rubella (ICD10: B06)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average

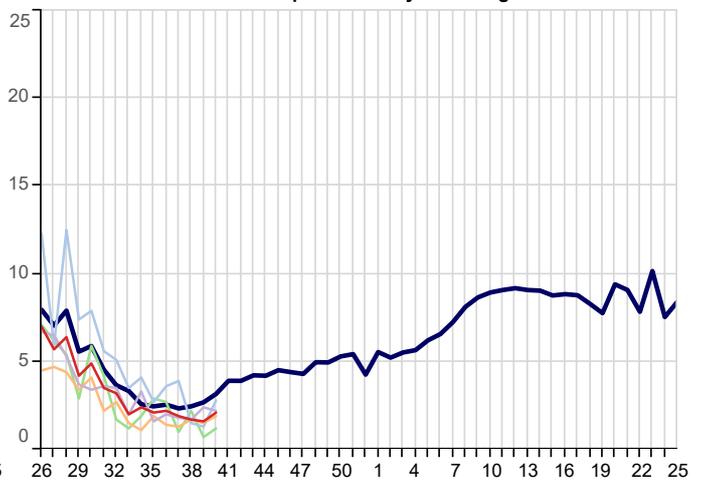


5. Skin Contagions

Bullous Dermatoses (ICD10: L10-L14)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



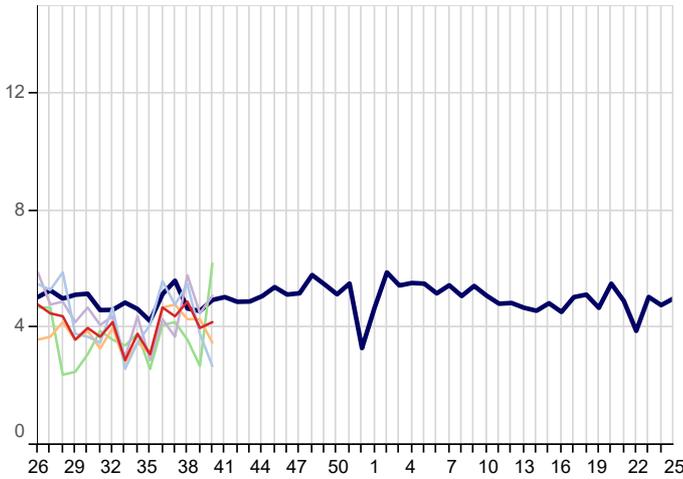
Chickenpox (ICD10: B01)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



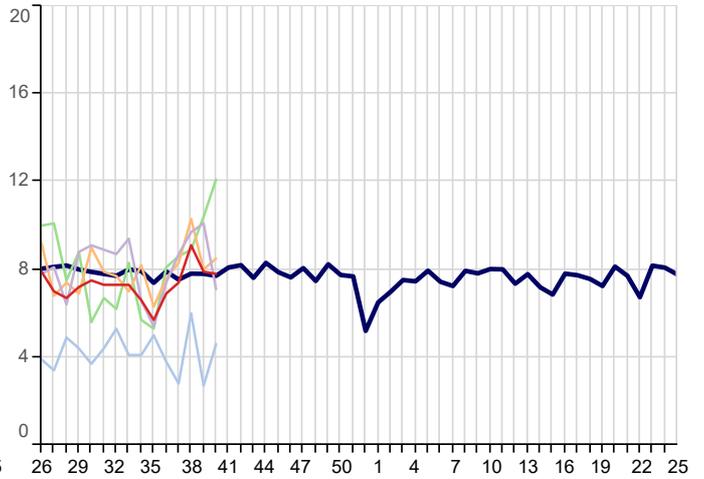
5. Skin Contagions (Continued)

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

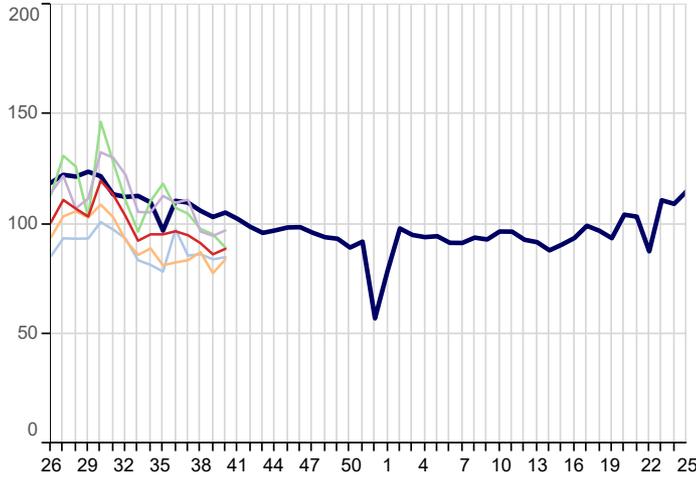
Herpes Simplex (ICD10: B00)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



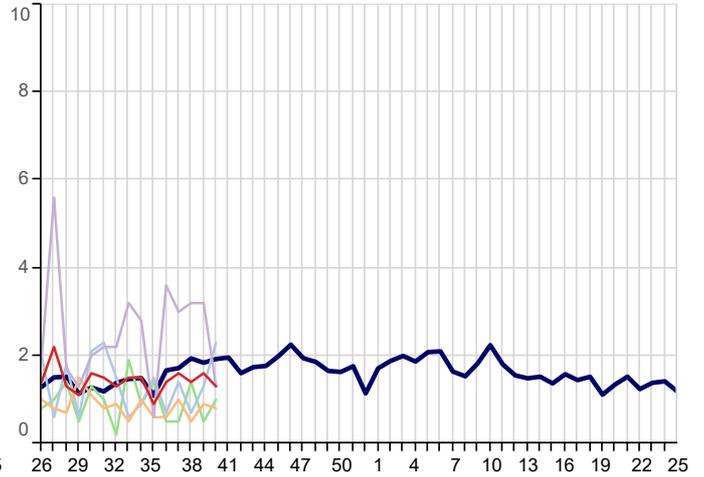
Herpes Zoster (ICD10: B02)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



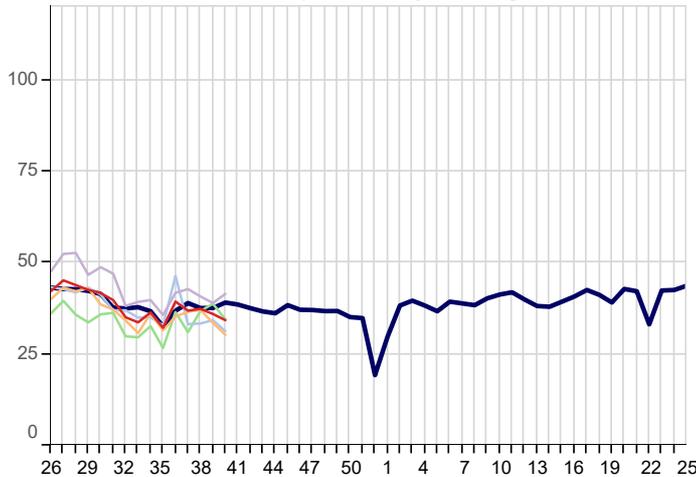
Infections of Skin & Subcutaneous Tissue (ICD10: L00-L08)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



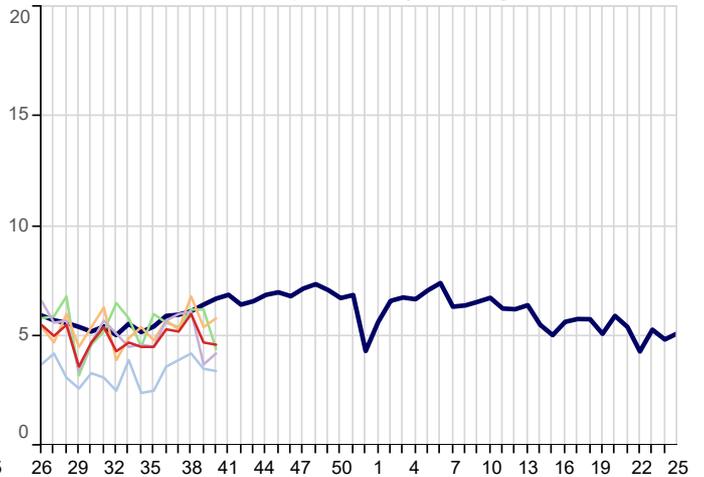
Scabies (ICD10: B86)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



Symptoms involving Skin & Oth Integument Tiss (ICD10: R20-R23)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



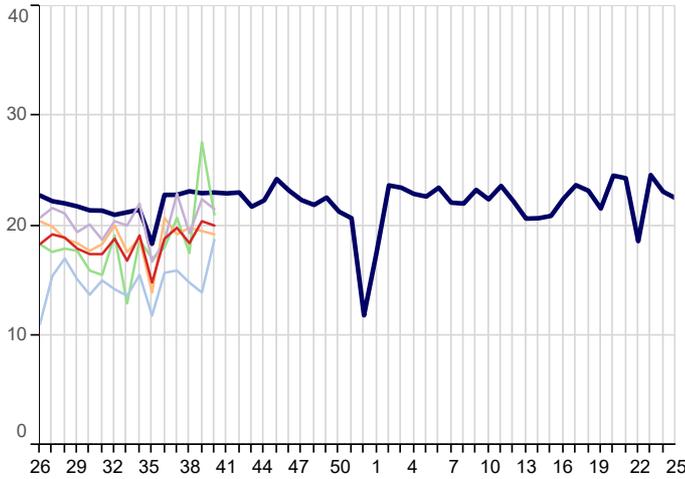
Impetigo (ICD10: L01)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



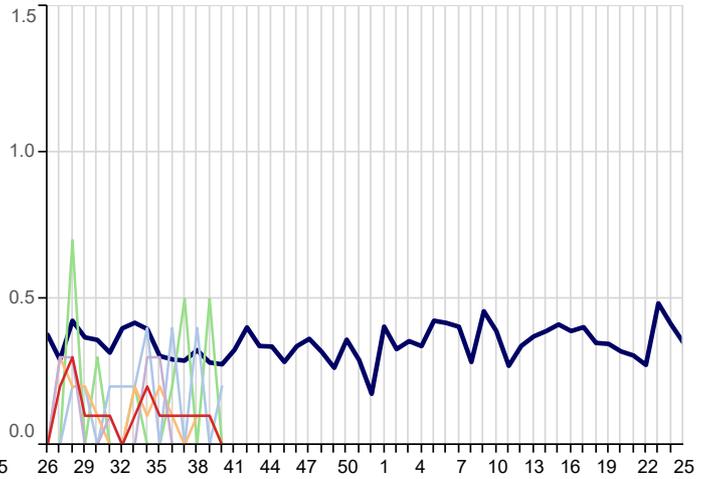
6. Disorders Affecting the Nervous System

5yr Avg National London North South Midlands And East

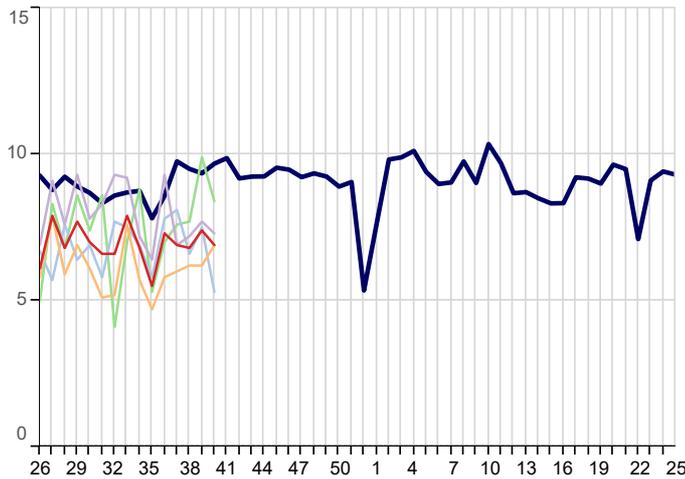
Disorders of The Peripheral Nervous System (ICD10: G50-G64,G70-G72)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



Meningitis/Encephalitis (ICD10: A170-A171,A390,A38-A85,A87,G00-G05)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average

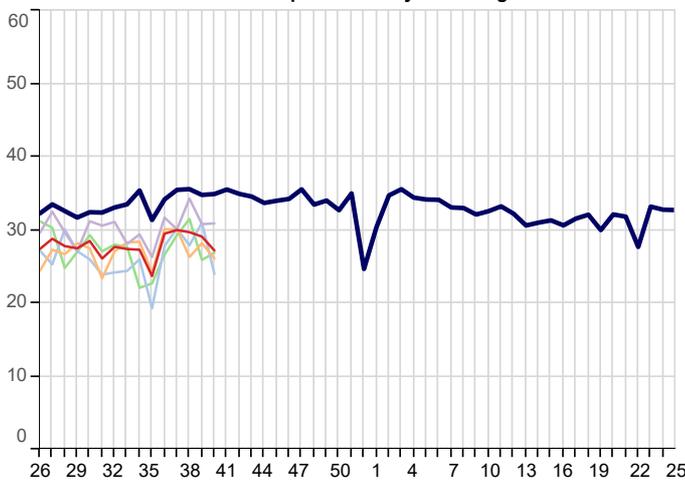


Symptoms Involving Nervous & Musculoskeletal (ICD10: R25-R29)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



7. Genitourinary System Disorders

Urinary Tract Infection/Cystitis (ICD10: N30,N390)
Weekly incidence (per 100,000 all ages) by region for 2019/20 compared with 5 year average



8. Tabular Summary by Disease

Disease Name	Week beginning Week ending	30/09/2019 06/10/2019		23/09/2019 29/09/2019		16/09/2019 22/09/2019		09/09/2019 15/09/2019	
		Rate	Numer	Rate	Numer	Rate	Numer	Rate	Numer
Allergic Rhinitis		4.0	113	4.1	116	4.3	123	5.1	145
Asthma		16.0	455	15.5	436	15.1	428	11.9	337
Bronchitis		69.7	1,983	63.5	1,786	50.8	1,443	43.4	1,225
Bullous Dermatoses		0.2	6	0.4	12	0.2	5	0.3	8
Chickenpox		2.1	59	1.6	45	1.7	49	1.9	54
Common Cold		86.1	2,452	79.6	2,239	71.5	2,030	47.5	1,339
Conjunctival Disorders		15.8	450	15.5	436	15.0	426	14.8	417
Herpes Simplex		4.2	119	4.0	113	4.9	138	4.4	124
Herpes Zoster		7.8	223	7.9	222	9.1	258	7.4	208
Impetigo		4.6	132	4.7	131	6.0	171	5.2	148
Infectious Mononucleosis		0.3	9	0.3	9	0.4	10	0.4	10
Influenza-like illness		4.3	121	2.6	74	2.2	62	1.8	50
Infectious Intestinal Diseases		8.4	238	9.2	260	9.6	272	9.5	269
Laryngitis and Tracheitis		9.1	259	7.9	221	7.6	216	5.2	146
Lower Respiratory Tract Infections		78.6	2,237	71.0	1,996	58.1	1,648	49.7	1,402
Measles		0.0	0	0.0	1	0.0	1	0.0	0
Meningitis and Encephalitis		0.0	1	0.1	3	0.1	3	0.1	2
Mumps		0.1	3	0.1	4	0.2	7	0.2	6
Non-infective Enteritis and Colitis		8.7	249	7.7	216	7.7	218	7.2	203
Otitis Media Acute		17.7	504	17.4	490	16.9	479	14.2	400
Peripheral Nervous Disease		20.0	569	20.4	574	18.4	522	19.8	559
Pleurisy		1.0	28	0.9	25	0.8	24	0.9	24
Pneumonia and Pneumonitis		2.4	67	2.2	61	2.7	78	2.7	76
Respiratory System Diseases		289.0	8,225	271.0	7,624	248.2	7,046	205.0	5,783
Rubella		0.0	0	0.0	0	0.0	0	0.0	0
Scabies		1.3	37	1.6	44	1.4	41	1.6	44
Sinusitis		17.5	497	17.0	478	14.9	423	14.4	407
Skin and Subcutaneous Tissue Infections		88.7	2,524	86.2	2,426	91.3	2,592	94.9	2,678
Strep Throat and Peritonsillar Abscess		1.3	36	1.0	27	0.7	21	0.7	20
Symptoms involving musculoskeletal		6.9	197	7.4	208	6.8	193	6.9	195
Symptoms involving Respiratory and Chest		137.1	3,902	132.1	3,717	123.3	3,499	110.8	3,125
Symptoms involving Skin and Integument Tissues		34.3	977	36.0	1,013	37.4	1,061	36.9	1,041
Tonsillitis and acute Pharyngitis		36.9	1,050	36.2	1,018	36.6	1,038	33.5	946
Upper Respiratory Tract Infections		173.5	4,938	162.2	4,564	151.0	4,287	119.2	3,362
Urinary Tract Infections		27.2	773	29.1	820	29.7	842	30.0	846
Viral Hepatitis		0.3	9	0.2	7	0.4	12	0.3	9
Whooping Cough		0.3	8	0.2	7	0.0	1	0.2	6
Practice Count			277		271		275		274
Denom			2,846,472		2,813,119		2,838,705		2,821,333

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 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)

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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