



COVID Symptom Study Report

03 July 2020

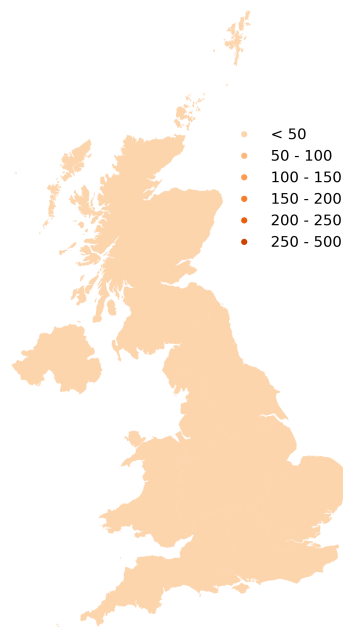
Analysis by ZOE and King's College London

covid.joinzoe.com

Daily new cases of COVID - Incidence (based on 2 weeks up to 29 June 2020)

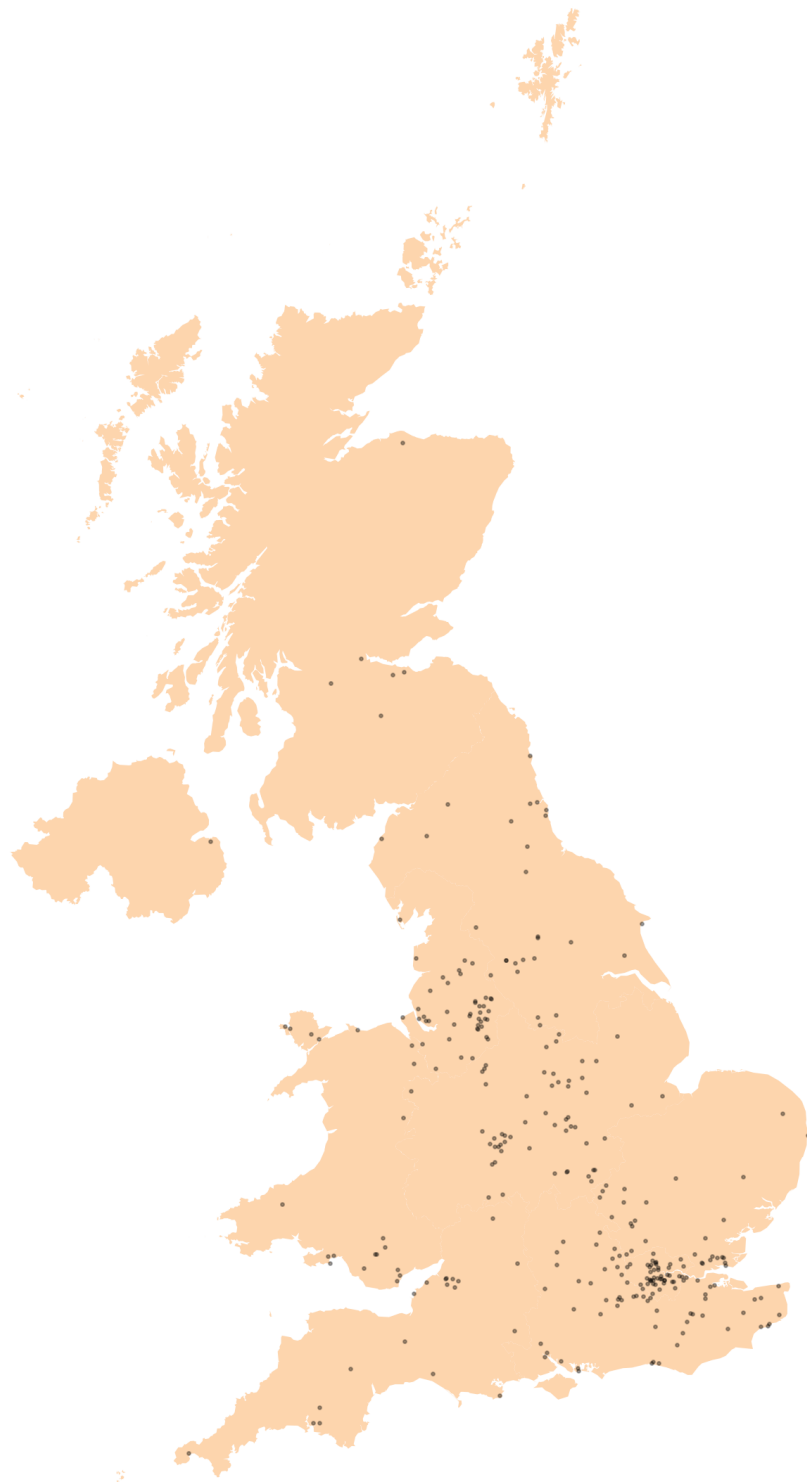
We estimate there have been 1503 daily new cases of COVID in the UK on average over the two weeks up to 29 June 2020. This is based on the number of newly symptomatic app users per day, and the proportion of these who give positive swab tests.

Daily new cases of COVID per million (29 June 2020)

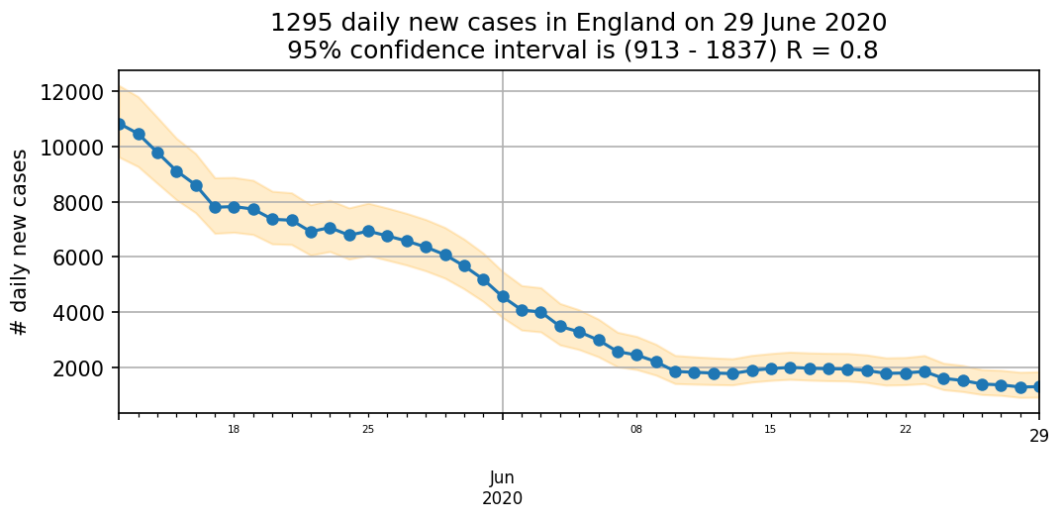
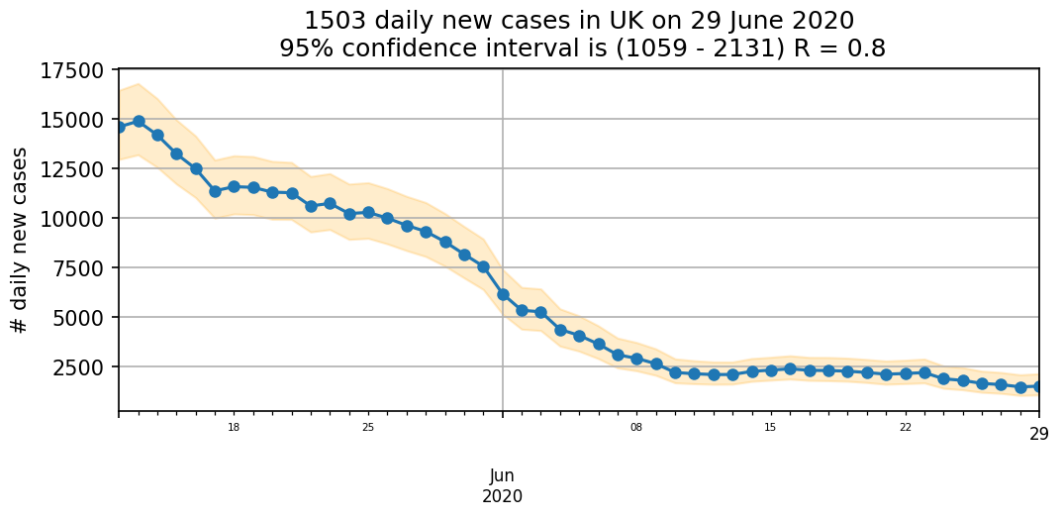


	Daily new cases per million	R
England	16 - 33	0.8 (0.6 - 1.0)
South East	17 - 57	1.0 (0.8 - 1.2)
London	5 - 45	0.8 (0.4 - 1.2)
Midlands	18 - 77	0.8 (0.5 - 1.0)
East of England	5 - 47	0.9 (0.4 - 1.2)
South West	3 - 43	1.0 (0.8 - 1.2)
North East and Yorkshire	10 - 67	0.7 (0.3 - 0.9)
Wales	12 - 142	0.8 (0.5 - 1.1)
North West	4 - 57	0.7 (0.3 - 0.9)
Scotland	2 - 78	0.9 (0.5 - 1.1)
Northern Ireland	0 - 343	- (- - -)

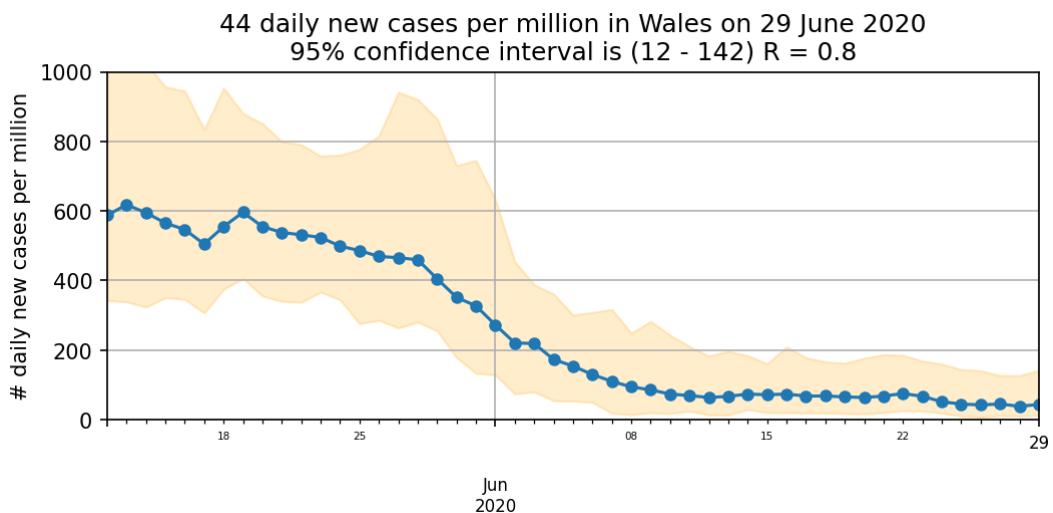
Location of positive test results reported in the UK
in the 2 weeks up to 29 June 2020



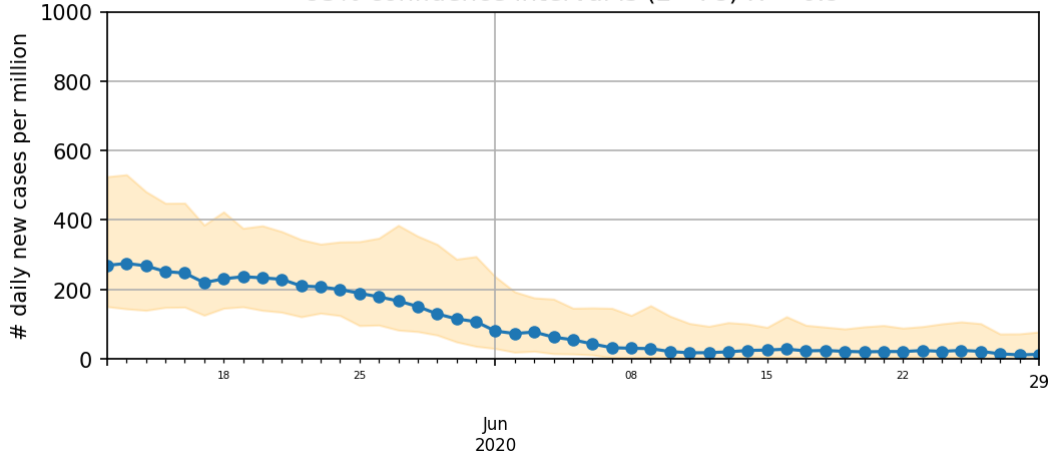
Changes in daily new cases of COVID in UK (based on 2 weeks up to each date)



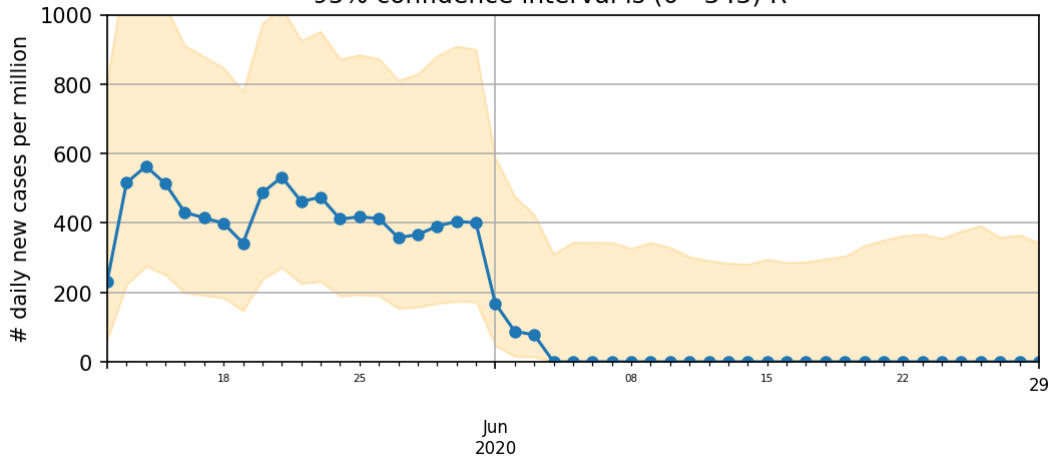
Changes in daily new cases of COVID per million in different regions (based on 2 weeks up to each date)



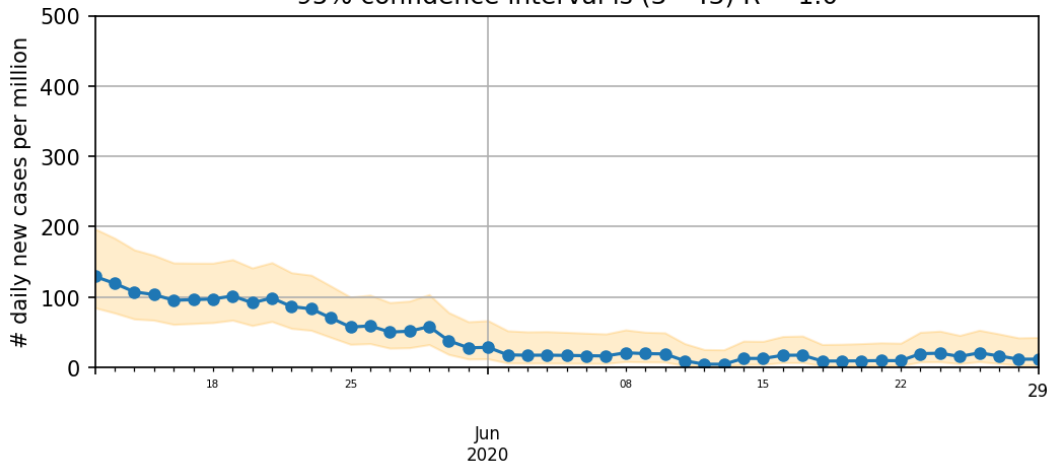
13 daily new cases per million in Scotland on 29 June 2020
95% confidence interval is (2 - 78) R = 0.9



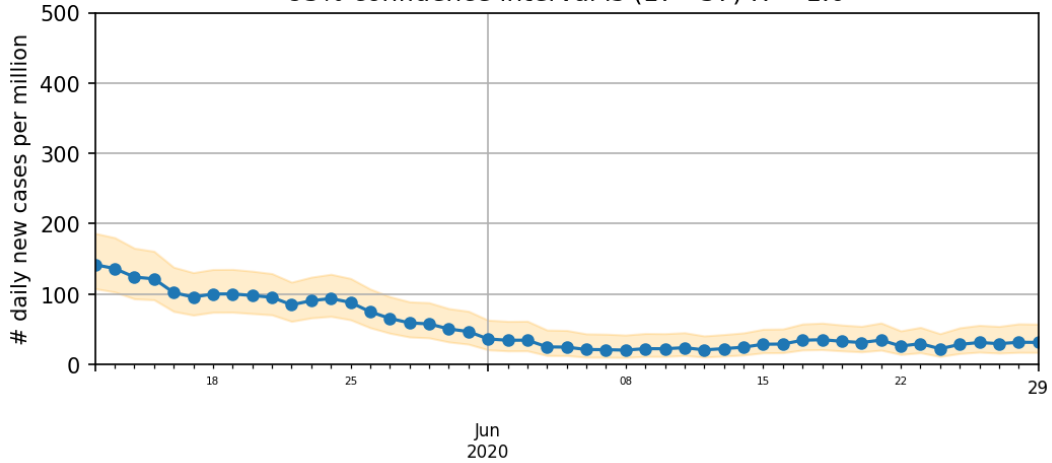
0 daily new cases per million in Northern Ireland on 29 June 2020
95% confidence interval is (0 - 343) R = -



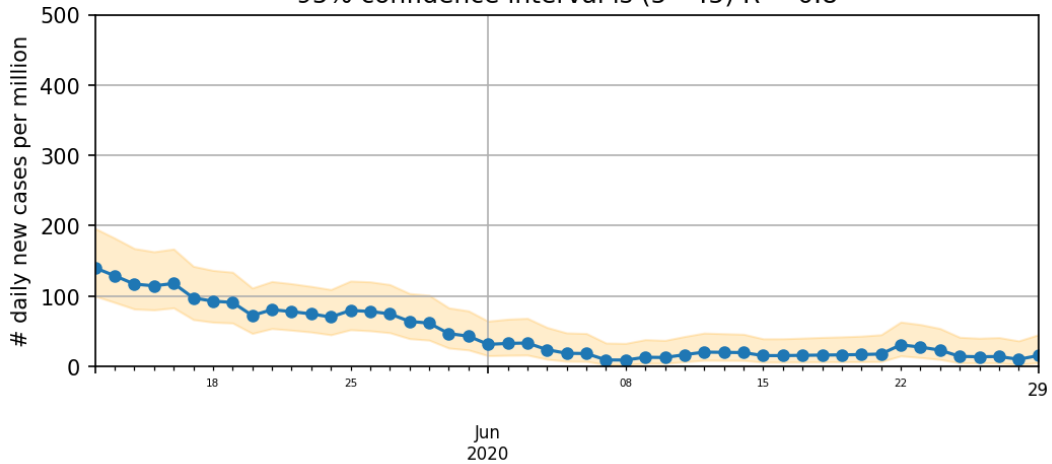
12 daily new cases per million in South West on 29 June 2020
95% confidence interval is (3 - 43) R = 1.0



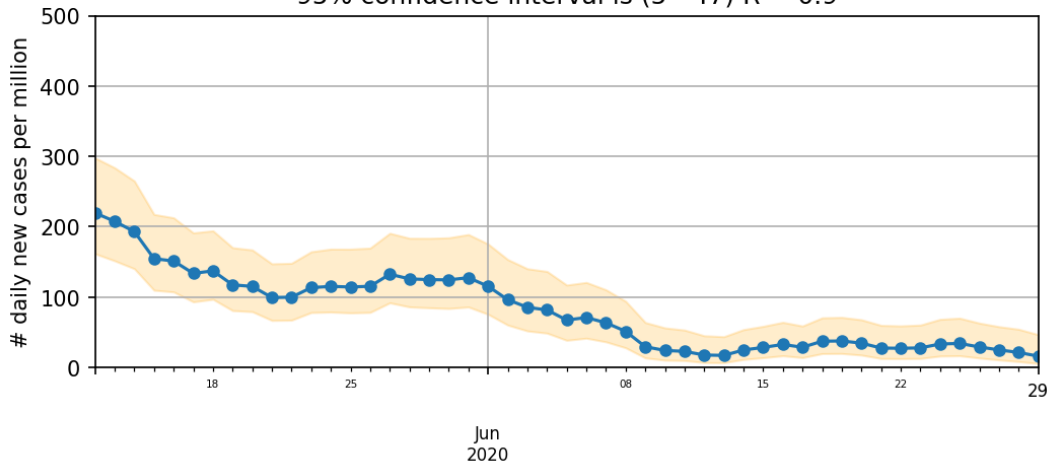
31 daily new cases per million in South East on 29 June 2020
95% confidence interval is (17 - 57) R = 1.0



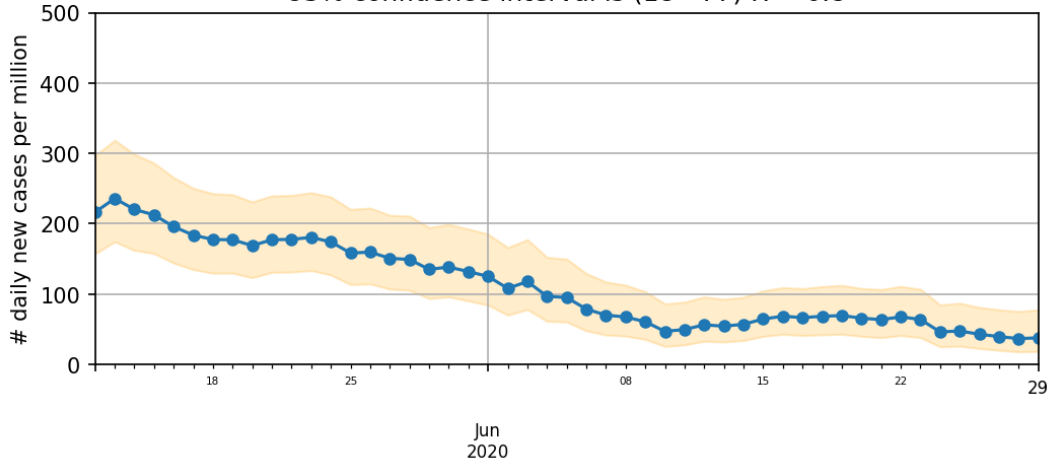
15 daily new cases per million in London on 29 June 2020
95% confidence interval is (5 - 45) R = 0.8



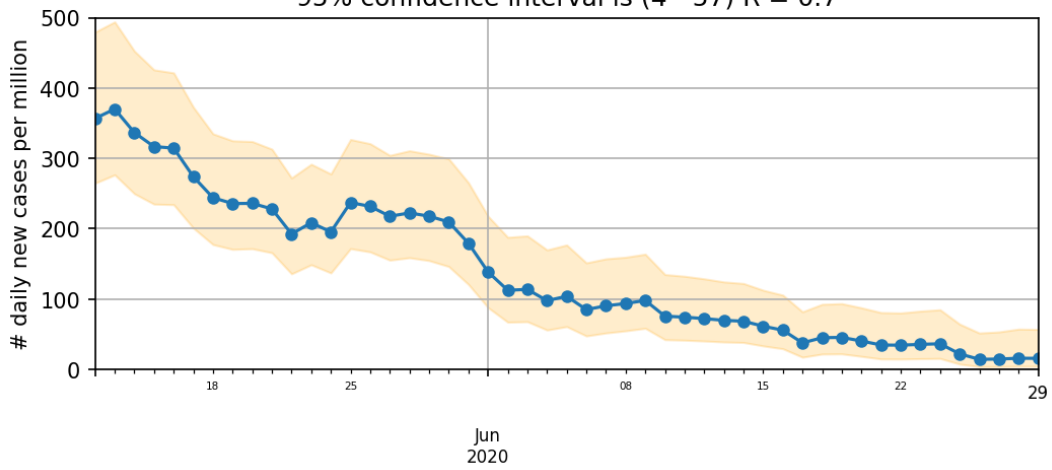
16 daily new cases per million in East of England on 29 June 2020
95% confidence interval is (5 - 47) R = 0.9



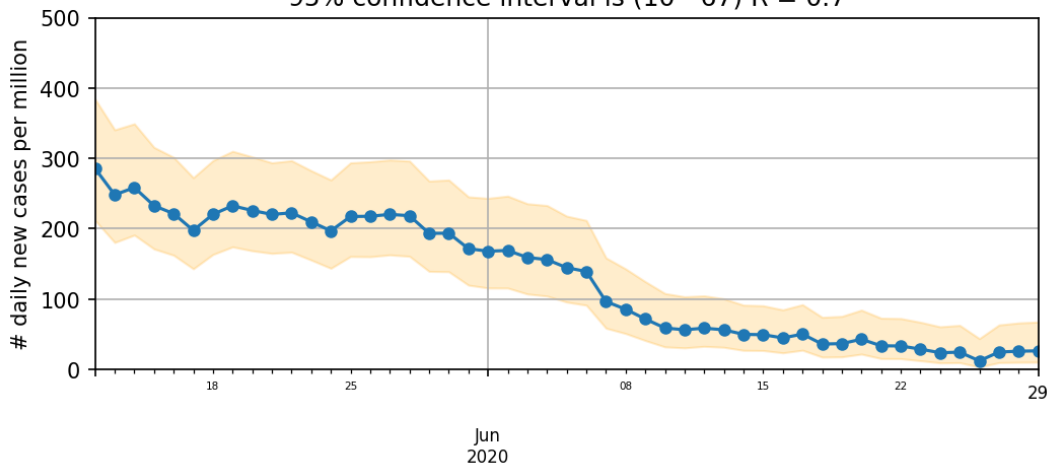
38 daily new cases per million in Midlands on 29 June 2020
95% confidence interval is (18 - 77) R = 0.8



16 daily new cases per million in North West on 29 June 2020
95% confidence interval is (4 - 57) R = 0.7



26 daily new cases per million in North East and Yorkshire on 29 June 2020
95% confidence interval is (10 - 67) R = 0.7



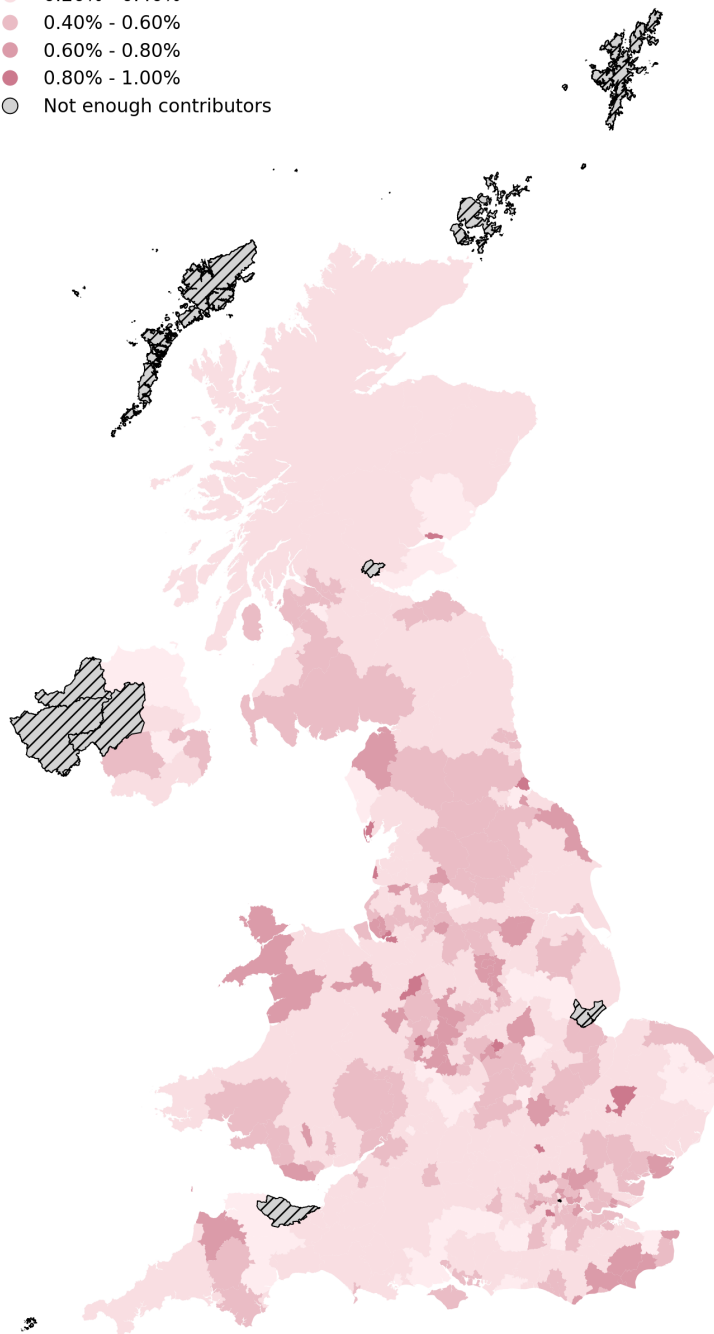
COVID active cases - Prevalence (on 02 July 2020)

The COVID active cases (prevalence) or Symptomatic COVID estimate is based on the most recent report for each contributor that logged during the previous 7 days.

Estimate of the % people with Symptomatic COVID (age 20-69)

Based on data from 1002368 contributors that logged from 25 June 2020 to 2 July 2020

- 0.00% - 0.20%
- 0.20% - 0.40%
- 0.40% - 0.60%
- 0.60% - 0.80%
- 0.80% - 1.00%
- Not enough contributors



Symptomatic COVID by Region

Symptomatic COVID cases

East of England	13025
London	22966
Midlands	21706
North East and Yorkshire	16006
North West	14591
Northern Ireland	1609
Scotland	6743
South East	16528
South West	9810
Wales	7406
TOTAL	130395

Symptomatic COVID by Socio-economic status (IMD)

Symptomatic COVID percentage

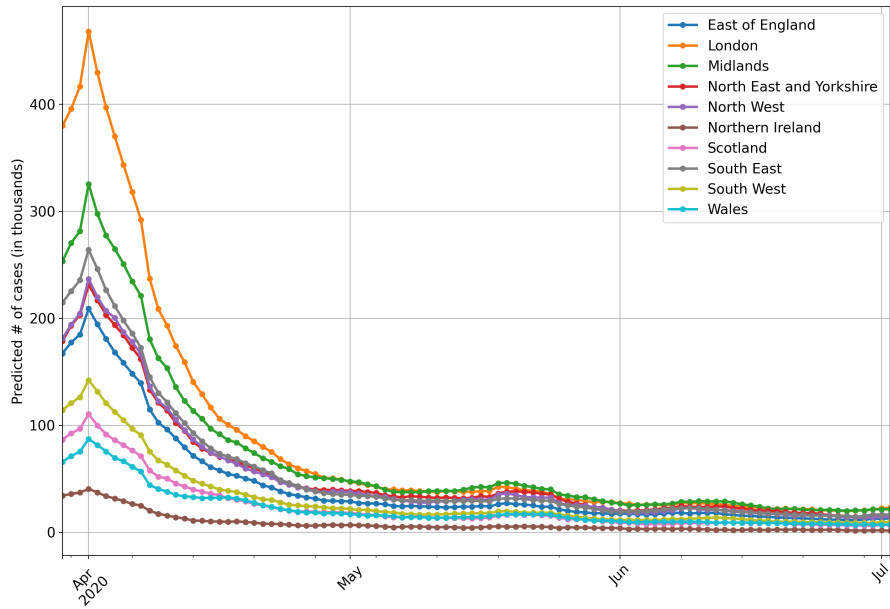
LOW (1st - 3rd decile)	0.54 %
MEDIUM (4th - 6th decile)	0.35 %
HIGH (7th - 10th decile)	0.28 %
TOTAL	0.36 %

Symptomatic COVID by Age

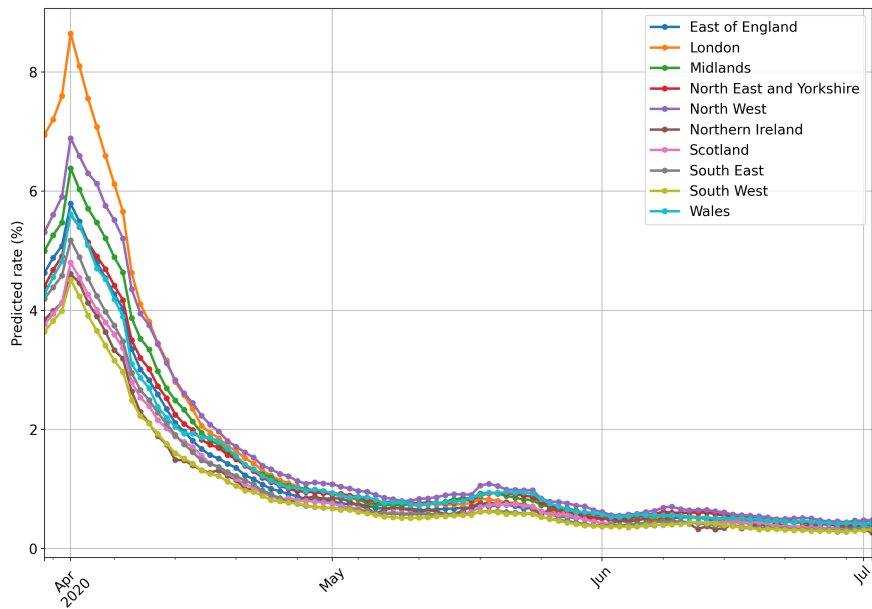
Symptomatic COVID percentage

Age 0 - 9	0.06 %
Age 10 - 19	0.19 %
Age 20 - 29	0.45 %
Age 30 - 39	0.41 %
Age 40 - 49	0.46 %
Age 50 - 59	0.46 %
Age 60 - 69	0.28 %
Age 70 - 79	0.17 %
Age 80 - 89	0.23 %
TOTAL	0.36 %

Estimate of people with Symptomatic COVID in Nations and NHS regions



Rate (%) of people with Symptomatic COVID in Nations and NHS regions



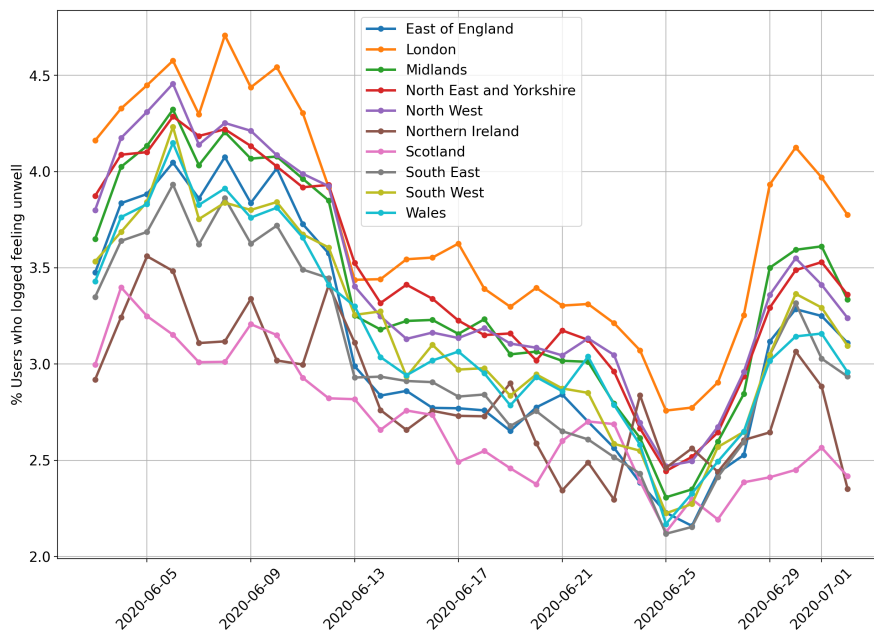
Raw Data (up to 02 July 2020)

This section reports raw data by day, with no temporal averaging or rebalancing/ extrapolation to the UK population.

Users who logged feeling unwell in the last 24 hours

	# users who logged feeling well	# users who logged feeling unwell	% users who logged feeling unwell
East of England	76655	2461	3.11 %
London	88733	3481	3.77 %
Midlands	79132	2730	3.33 %
North East and Yorkshire	65537	2279	3.36 %
North West	51939	1739	3.24 %
Northern Ireland	4399	106	2.35 %
Scotland	40400	1001	2.42 %
South East	128531	3887	2.94 %
South West	72543	2317	3.10 %
Wales	40246	1227	2.96 %
TOTAL	648115	21228	3.17 %

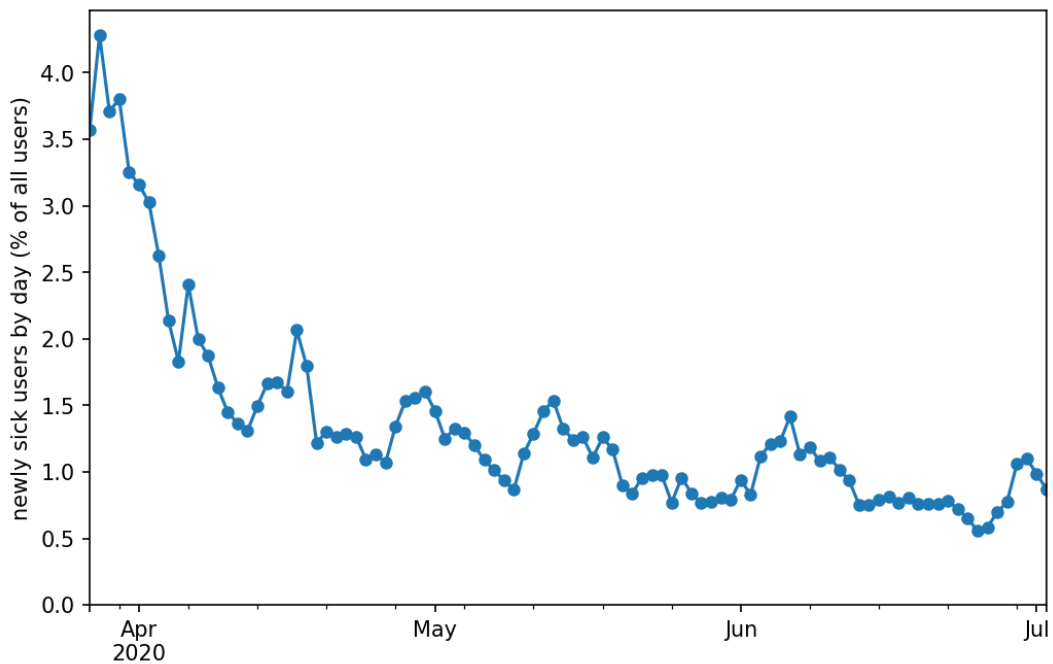
Users who logged feeling unwell by day



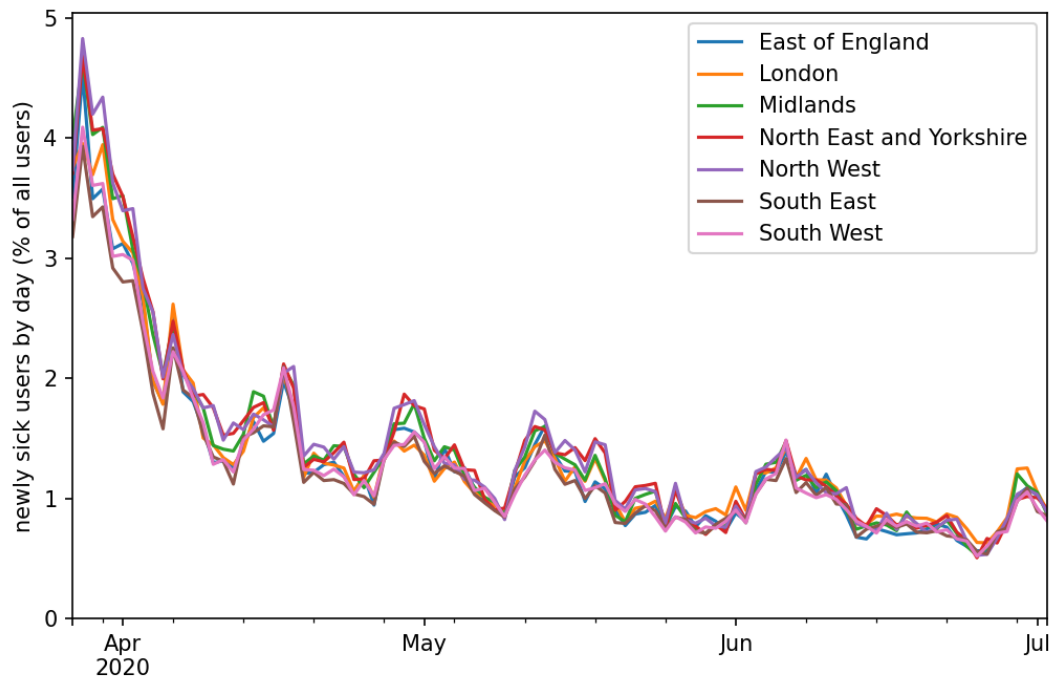
Newly Sick Users by Day (% of Active Users)

Active users are those who have been logging regularly in the past 10 days. Newly sick users are active users who haven't reported any symptoms for at least 9 days before reporting one of the following symptoms:

Persistent cough, Shortness of breath, Fever, Fatigue, Skipped meals, Hoarse voice, Sore throat, Delirium, Chest pain, Abdominal pain, Diarrhoea, Headache, Unusual muscle pains, Loss of smell, Chills or shivers, Eye soreness, Nausea, Dizzy light headed, Red welts on face or lips, Blisters on feet or any other symptom that makes them feel unwell



Newly Sick Users by Day in NHS England Regions (% of Active Users)



Positive Test Results by Day (% of Invited Test Takers)

