

COVID Symptom Study Report

17 June 2020

Analysis by ZOE and King's College London

covid.joinzoe.com

Daily new cases of COVID - Incidence (based on 2 weeks up to 13 June 2020)

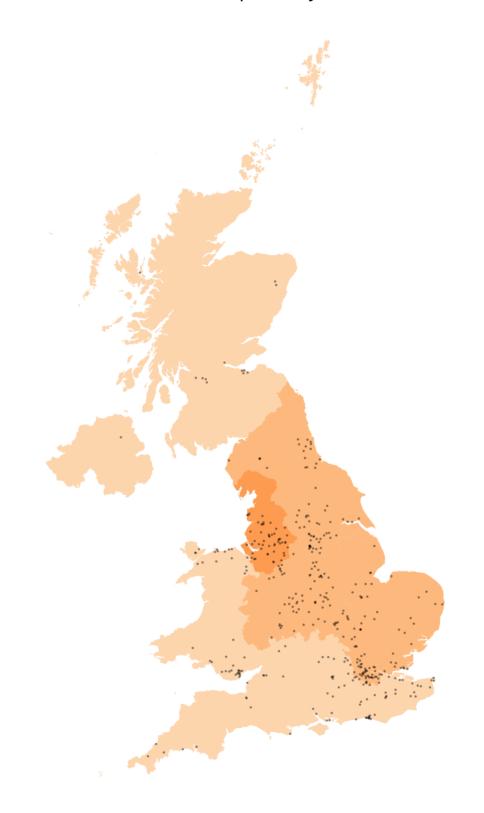
We estimate there have been 3612 daily new cases of COVID in the UK on average over the two weeks up to 13 June 2020. This is based on the number of newly symptomatic app users per day, and the proportion of these who give positive swab tests.

Daily new cases of COVID per million (13 June 2020)

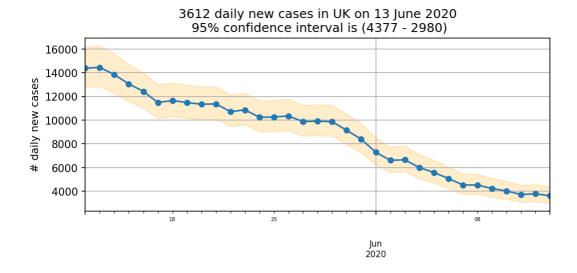


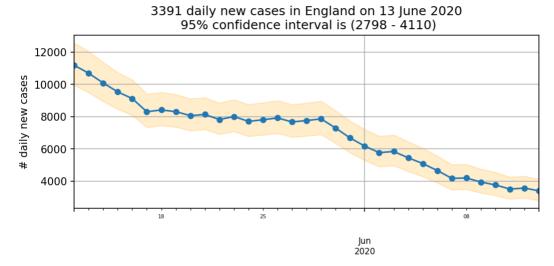
	Daily new cases per million	R
England	50 - 74	0.8 (0.6 - 0.9)
South East	23 - 63	0.9 (0.7 - 1.1)
London	54 - 125	0.9 (0.7 - 1.1)
Midlands	51 - 125	0.8 (0.6 - 1.0)
East of England	30 - 90	0.7 (0.2 - 0.9)
South West	12 - 58	0.9 (0.7 - 1.1)
North East and Yorkshire	39 - 113	0.7 (0.4 - 0.9)
North West	66 - 169	0.7 (0.4 - 0.9)
Wales	10 - 123	0.5 (0.1 - 0.9)
Scotland	3 - 91	0.6 (0.2 - 0.9)
Northern Ireland	0 - 296	- ()

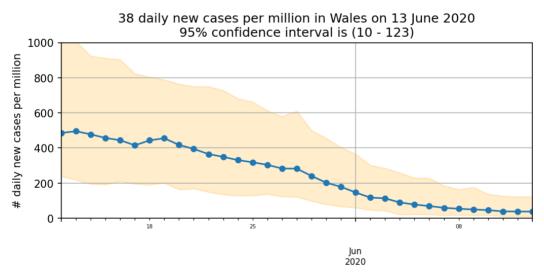
Location of positive test results reported in the UK in the 2 weeks up to 13 June 2020

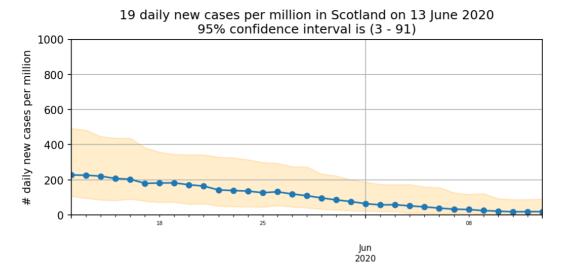


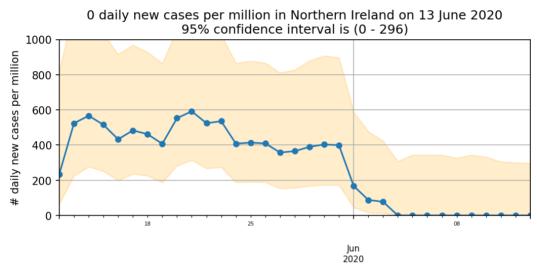
Changes in daily new cases of COVID in UK (based on 2 weeks up to each date)



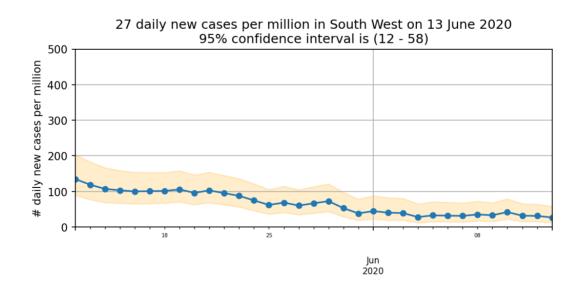


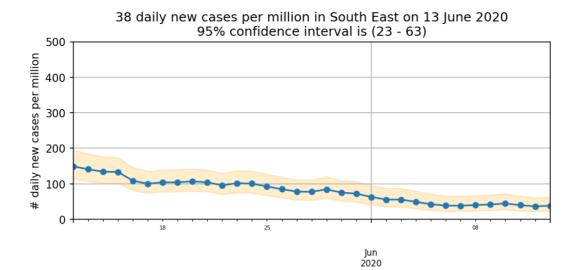


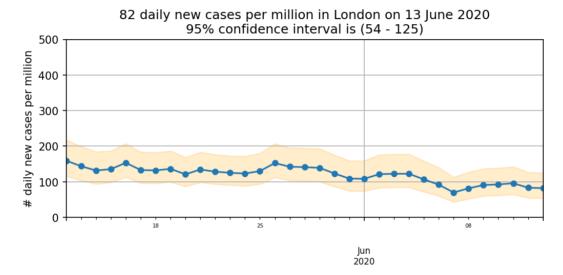


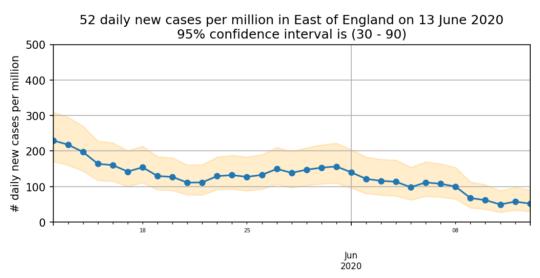


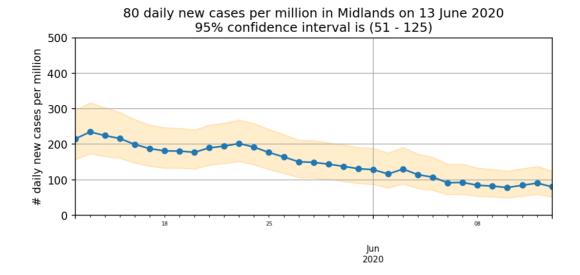
Changes in daily new cases of COVID in England's NHS regions (based on 2 weeks up to each date)

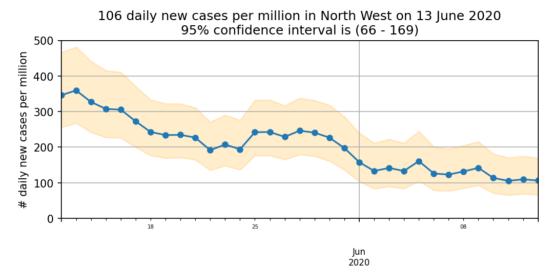


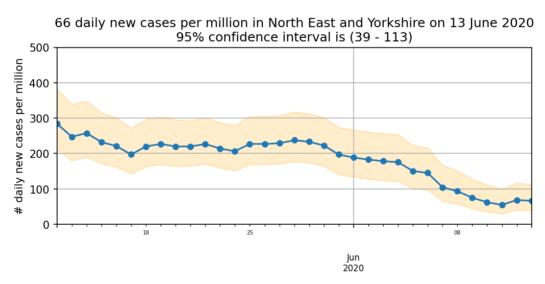








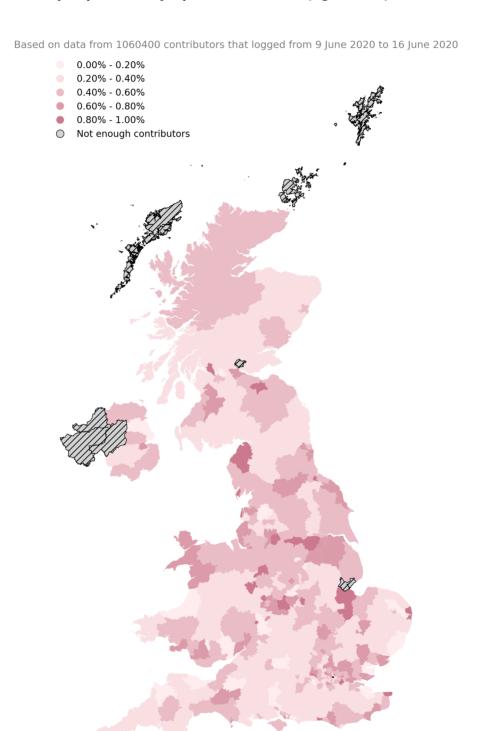




COVID active cases - Prevalence (on 16 June 2020)

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)



Symptomatic COVID by Region

Symptomatic COVID cases

East of England	15362
London	23535
Midlands	25182
North East and Yorkshire	20880
North West	18109
Northern Ireland	2614
Scotland	8743
South East	18839
South West	11589
Wales	9036
TOTAL	153893

Symptomatic COVID by Socio-economic status (IMD)

Symptomatic COVID percentage

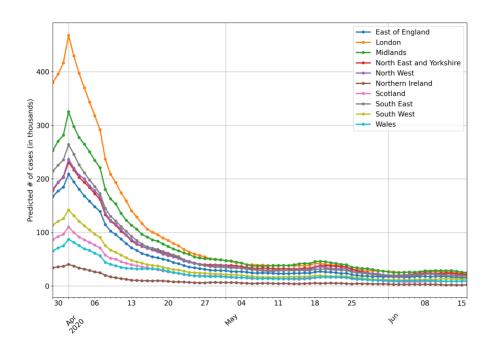
TOTAL	0.41 %
HIGH (7th - 10th decile)	0.32 %
MEDIUM (4th - 6th decile)	0.43 %
LOW (1st - 3rd decile)	0.58 %

Symptomatic COVID by Age

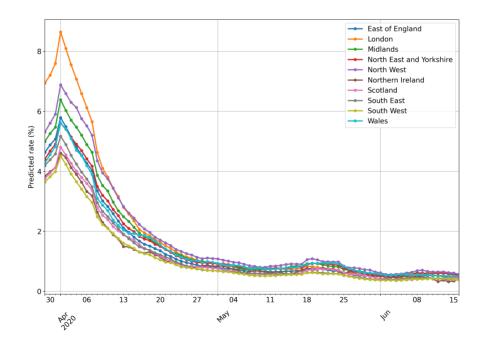
Symptomatic COVID percentage

TOTAL	0.41 %
Age 80 - 89	0.23 %
Age 70 - 79	0.20 %
Age 60 - 69	0.33 %
Age 50 - 59	0.51 %
Age 40 - 49	0.53 %
Age 30 - 39	0.48 %
Age 20 - 29	0.49 %
Age 10 - 19	0.22 %
Age 0 - 9	0.06 %

Estimate of people with Symptomatic COVID in Nations and NHS regions



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



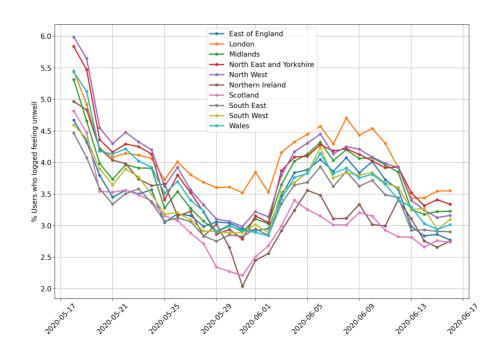
Raw Data (up to 16 June 2020)

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	83326	2376	2.77 %
London	97558	3594	3.55 %
Midlands	85428	2850	3.23 %
North East and Yorkshire	70767	2444	3.34 %
North West	57838	1889	3.16 %
Northern Ireland	5293	150	2.76 %
Scotland	46218	1301	2.74 %
South East	139272	4165	2.90 %
South West	80194	2565	3.10 %
Wales	45955	1429	3.02 %
TOTAL	711849	22763	3.10 %

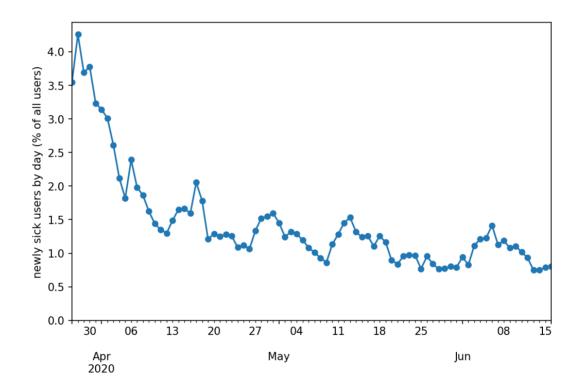
Users who logged feeling unwell by day



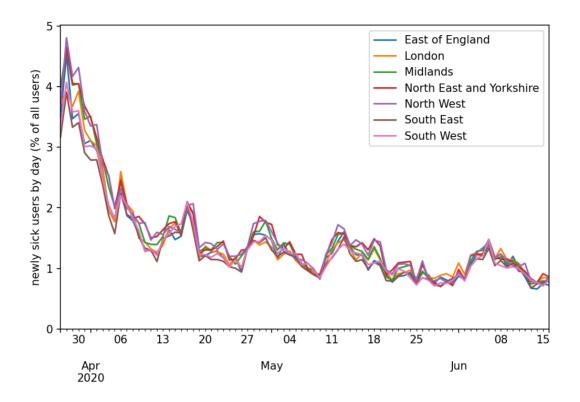
Newly Sick Users by Day (% of Active Users)

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)

