COVID-19 Linear Regression for daily new cases per country
Linear Regression of Peak Periods: Italy

Regression equation in excel date code:
\[ y = -100.83x + 4,434,245.63 \]

When \( y = 0 \), \( x = \text{May 26, 2020} \)

Average wave period: 7 Days

Average declining rate of recorded results: 90 cases per day

Daily declining rate: 101 cases per day
Spain

Regression equation in excel date code:
\[ y = -115.55x + 5,083,147.64 \]

Daily declining rate = 116 cases per day

When \( y = 0 \), \( x \approx \text{June 9, 2020} \)

Average declining rate of recorded results = 123 cases per day

Average wave period: 6 days

Projected results

Recorded results

Linear regression line
Regression Line of Peak Periods: Cyprus

Regression equation in excel date code:

\[ y = -1.1607x + 51029 \]

Daily Declining rate = 1 case per day

When \( y = 0 \), \( x = \) May 13, 2020

Average declining rate of recorded results = 1 case per day

Average wave period: 6 days

Daily New Cases

Date

20-Mar 30-Mar 9-Apr 19-Apr 29-Apr 9-May 19-May 29-May

Recorded results

Linear regression line
Regression line for peak periods: Russia

Regression equation in excel date code:
\[ y = -264.50x + 11,639,605.00 \]

Daily declining rate= 264 cases per day

When \( y=0 \), \( x= June 24, 2020 \)

Average wave period: 4 days

Average declining rate of recorded results= 265 cases per day
United Kingdom

Regression Line of Peak Periods: Cyprus

Regression equation in excel date code:

\[ y = -105.11x + 4,625,399.98 \]

Daily Declining rate= 105 cases per day

When \( y = 0 \), \( x = \) June 25, 2020

Average wave period: 7 days

Average declining rate of recorded results= 109 cases per day