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

Regression equation in excel date code:

\[ y = -103.90x + 4,568,930.35 \]

Daily declining rate = 104 cases per day

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

Average wave Period: 7 Days
Regression equation in excel date code:

\[ y = -103.81x + 4,567,253.13 \]

Projected results

One wave period

Daily declining rate = 104 cases per day

Average wave period: 7 days

When \( y = 0 \), \( x = \) June 15, 2020
Germany

Linear Regression of Peak Periods: Germany

Regression equation in excel date code:

\[ y = -161.40x + 7,095,529.06 \]

Daily declining rate= 161 cases per day

When \( y = 0 \), \( x = \) May 12, 2020

Average wave period: 7 days
Regression equation in excel date code:
\[ y = -33.65x + 1,479,032.83 \]
Daily declining rate = 34 cases per day
When \( y = 0 \), \( x = \text{May 3, 2020} \)

Average wave period: 6 days

Regression Line for Peak Periods: Switzerland

Recorded results
Projected results
Linear regression line