



Modeling the Dynamics of COVID-19

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Data Source

- ☒ Local
☐ Our World In Data

Continent

Europe

Country

Macedonia

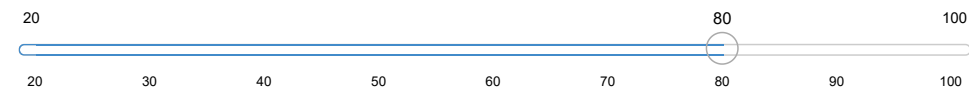
Modeling Period

2020-04-04

to

2020-06-01

Percentage of Training Dataset (Training vs. Testing Split):



Variable of Interest

- ☒ New Cases
☐ New Deaths

Macedonia

The study timeframe starts from **2020-04-04** until **2020-06-01** covering **59** days.

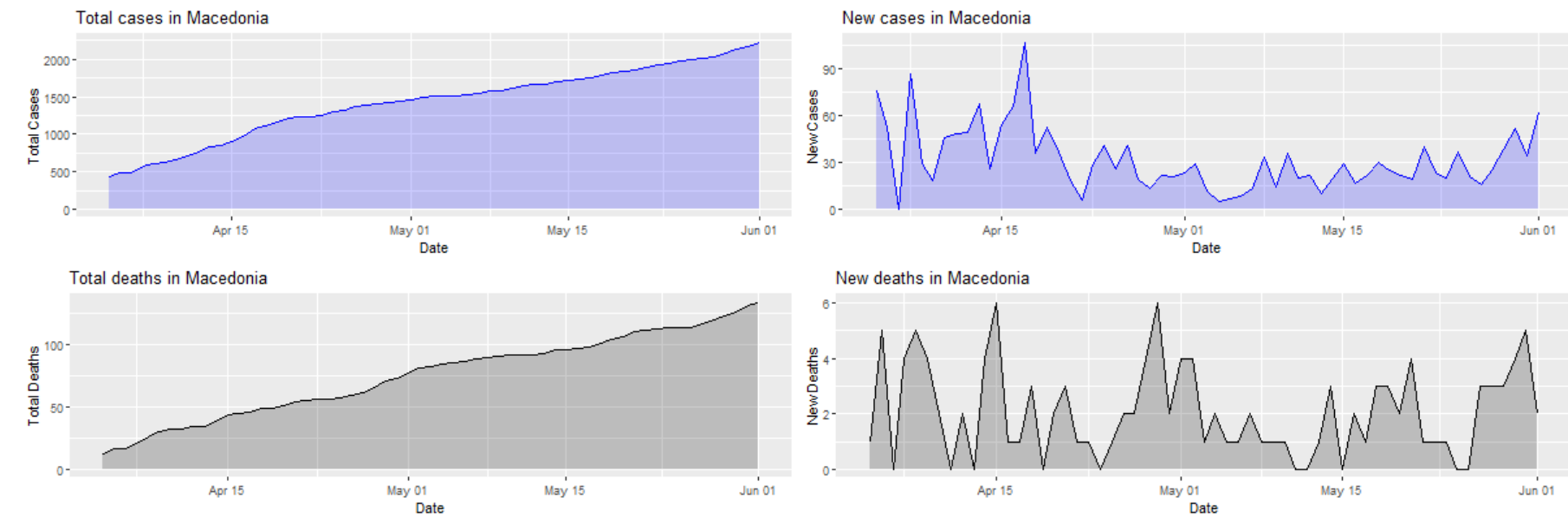
The first case was reported on: **2020-04-04**

The first death was reported on: **2020-04-04**

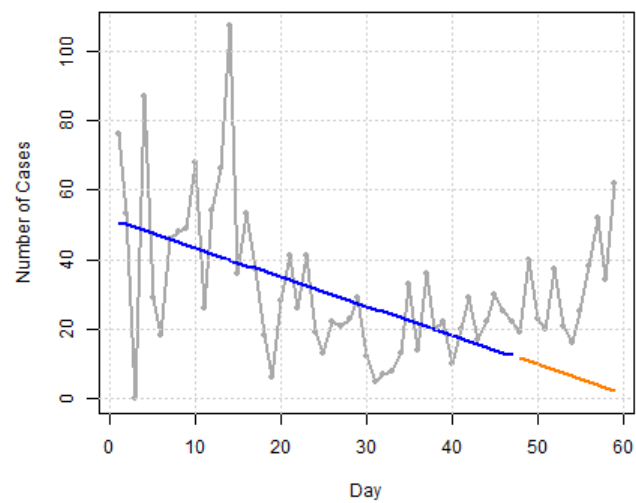
The total cumulative number of cases by the last day in the selected period is **2226** cases.

The total number of deaths by the last day in the selected period is **133** deaths.

Cases vs. Deaths Overview

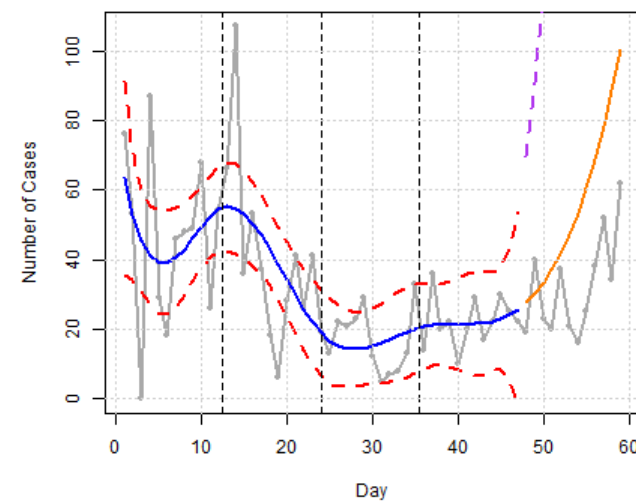


New Cases in Macedonia (Actual vs. LR)



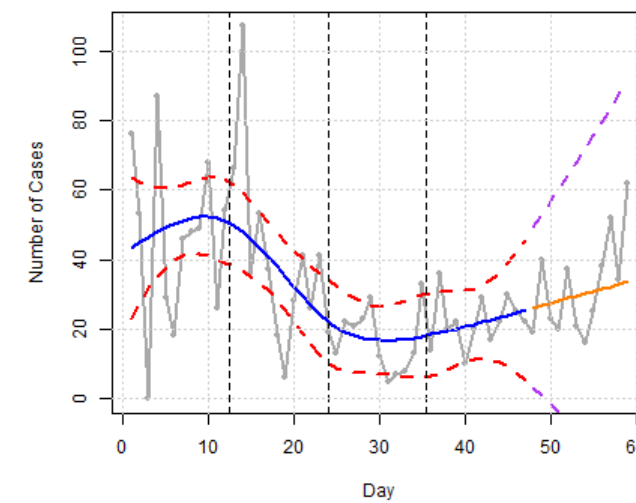
AIC = 415.511
BIC = 421.061
Training MSE = 356.07
Testing MSE = 881.4

New Cases in Macedonia (Actual vs. Cubic Spline)



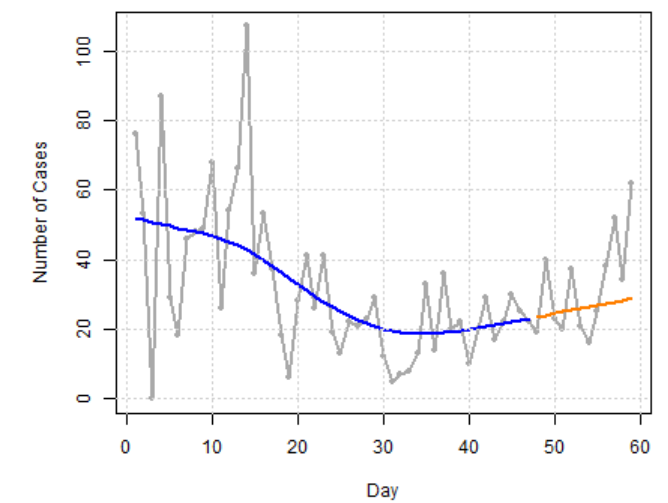
AIC = 413.354
BIC = 428.156
Training MSE = 274.92
Testing MSE = 837.77

New Cases in Macedonia (Actual vs. Natural Spline)



AIC = 414.038
BIC = 425.139
Training MSE = 303.73
Testing MSE = 160.53

New Cases in Macedonia (Actual vs. Smoothing Spline)



Degrees of Freedom = 3.822
AIC = 29,424.68
BIC = 29,431.75
Training MSE = 312.95
Testing MSE = 200.36