

Modeling the Dynamics of COVID-19

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Data Source

- ☒ Local
☐ Our World In Data

Continent

Europe

Country

Serbia

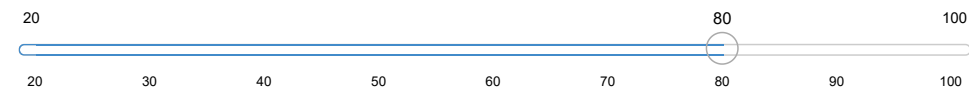
Modeling Period

2020-04-04

to

2020-06-01

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



Variable of Interest

- ☒ New Cases
☐ New Deaths

Serbia

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

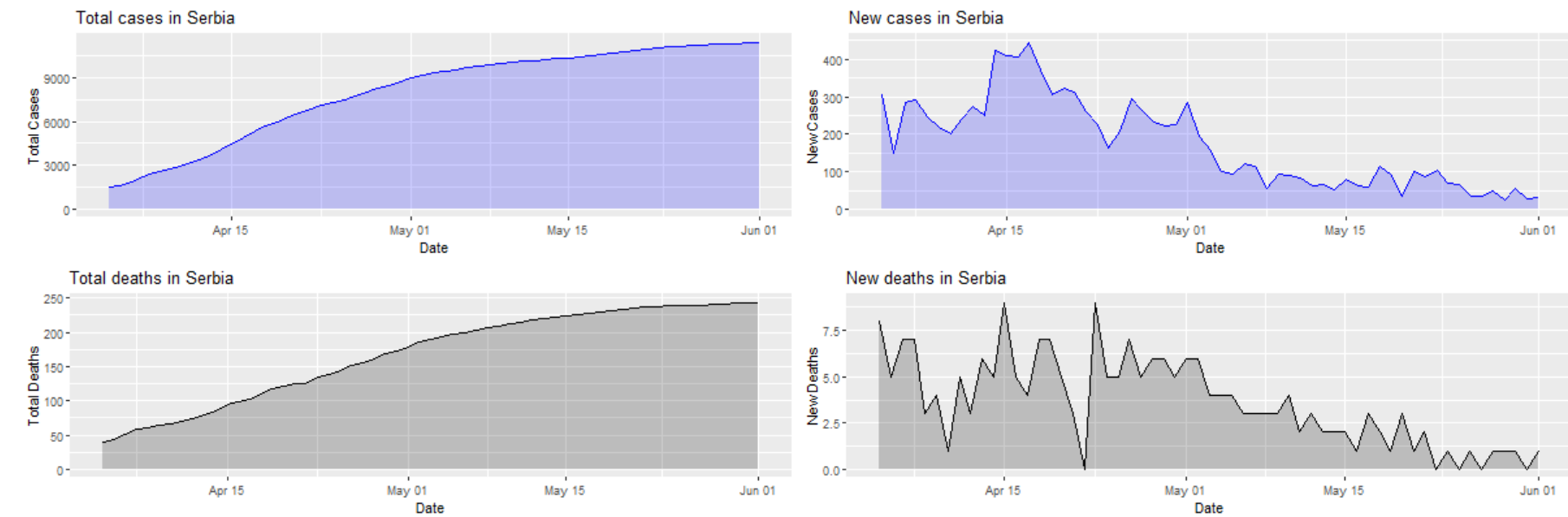
The first case was reported on: **2020-04-04**

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

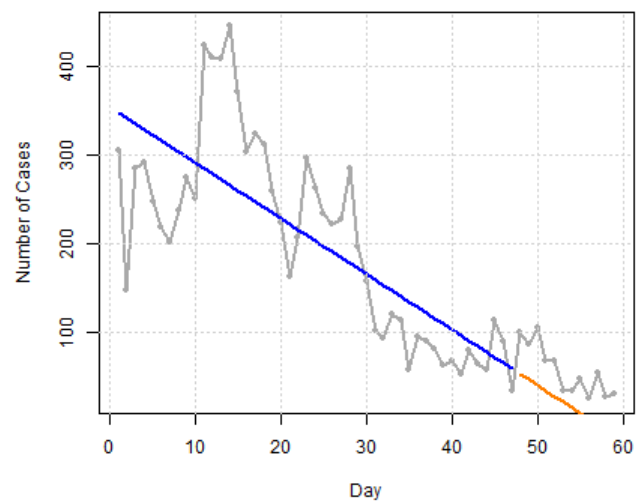
The total cumulative number of cases by the last day in the selected period is **11412** cases.

The total number of deaths by the last day in the selected period is **243** deaths.

Cases vs. Deaths Overview

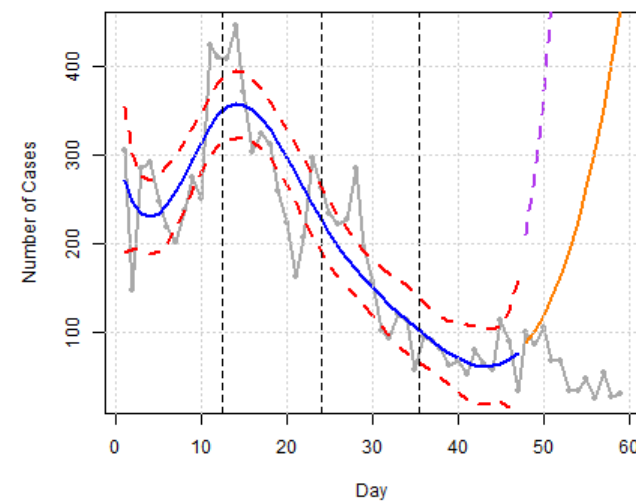


New Cases in Serbia (Actual vs. LR)



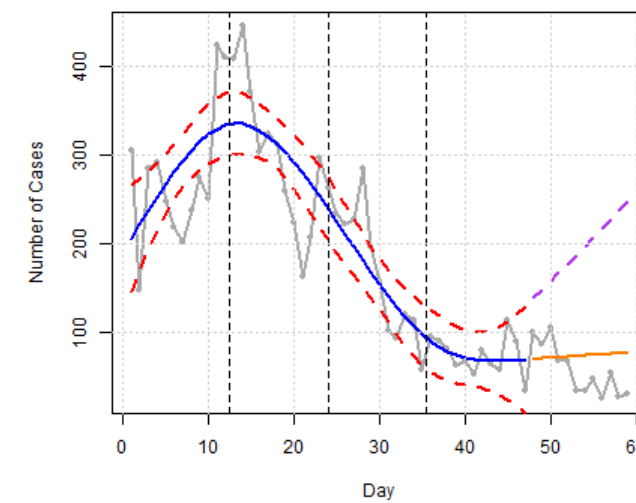
AIC = 542.341
BIC = 547.891
Training MSE = 5,290.29
Testing MSE = 1,675.43

New Cases in Serbia (Actual vs. Cubic Spline)



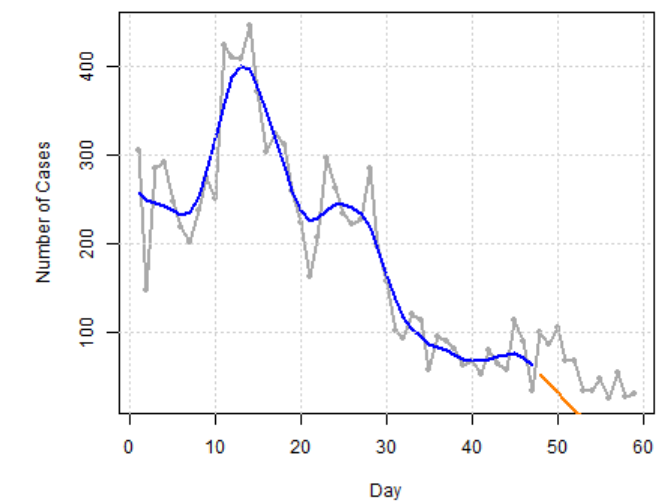
AIC = 514.404
BIC = 529.205
Training MSE = 2,360.11
Testing MSE = 51,793.04

New Cases in Serbia (Actual vs. Natural Spline)



AIC = 516.328
BIC = 527.429
Training MSE = 2,677.16
Testing MSE = 1,142.88

New Cases in Serbia (Actual vs. Smoothing Spline)



Degrees of Freedom = 11.68
AIC = 106,437.6
BIC = 106,459.2
Training MSE = 1,132.07
Testing MSE = 3,813.06