



Modeling the Dynamics of COVID-19

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Data Source

- ☒ Local
☐ Our World In Data

Continent

Europe

Country

Montenegro

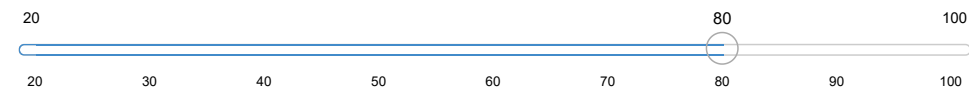
Modeling Period

2020-04-04

to

2020-06-01

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



Variable of Interest

- ☒ New Cases
☐ New Deaths

Montenegro

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

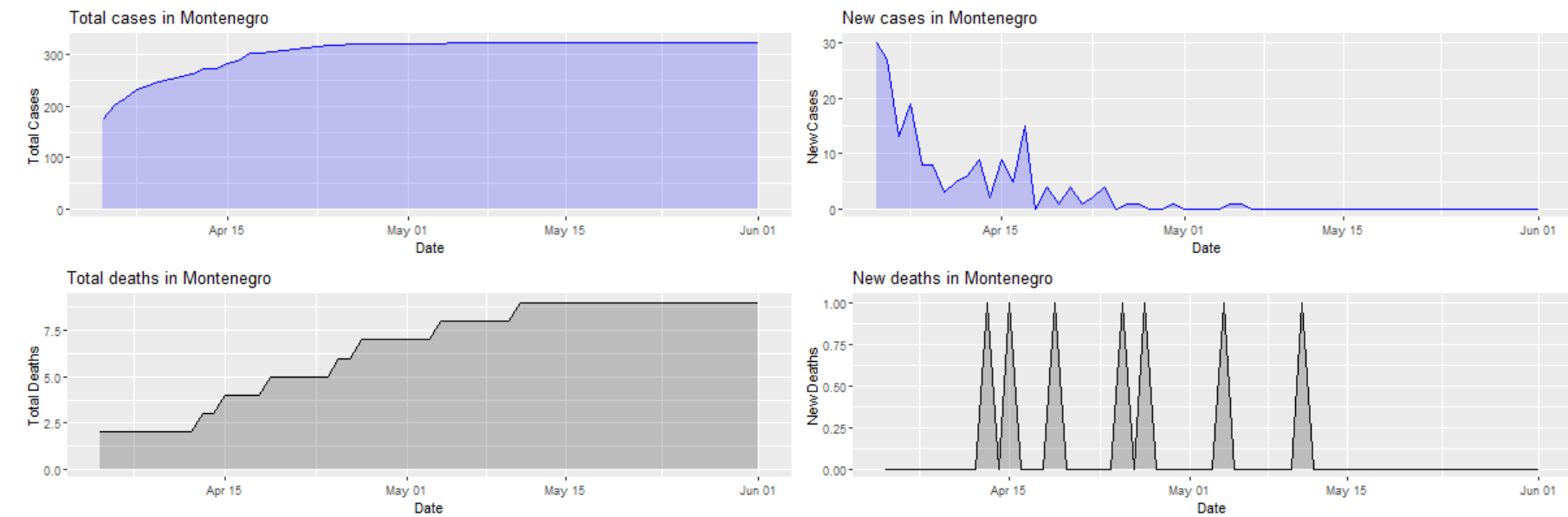
The first case was reported on: **2020-04-04**

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

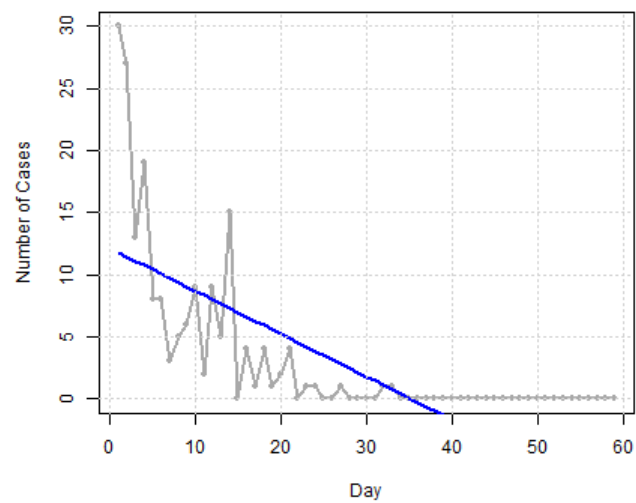
The total cumulative number of cases by the last day in the selected period is **324** cases.

The total number of deaths by the last day in the selected period is **9** deaths.

Cases vs. Deaths Overview

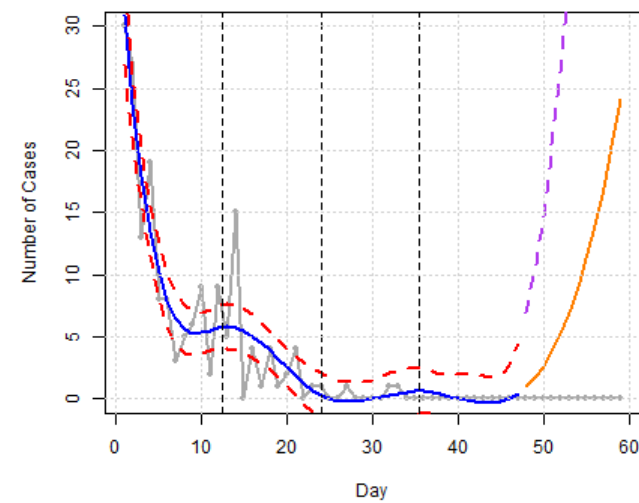


New Cases in Montenegro (Actual vs. LR)



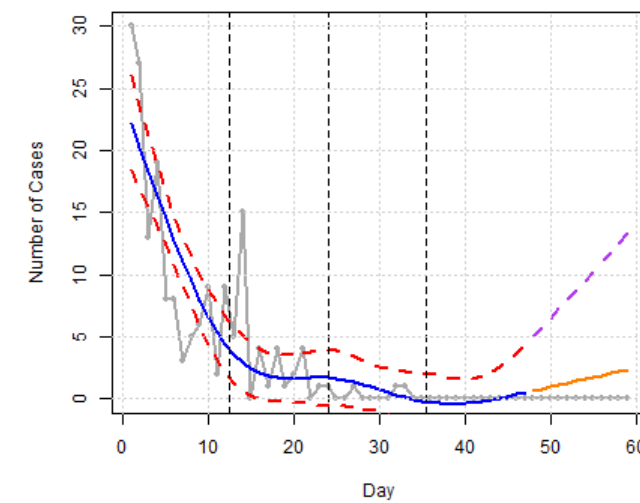
AIC = 288.003
BIC = 293.553
Training MSE = 23.62
Testing MSE = 41.91

New Cases in Montenegro (Actual vs. Cubic Spline)



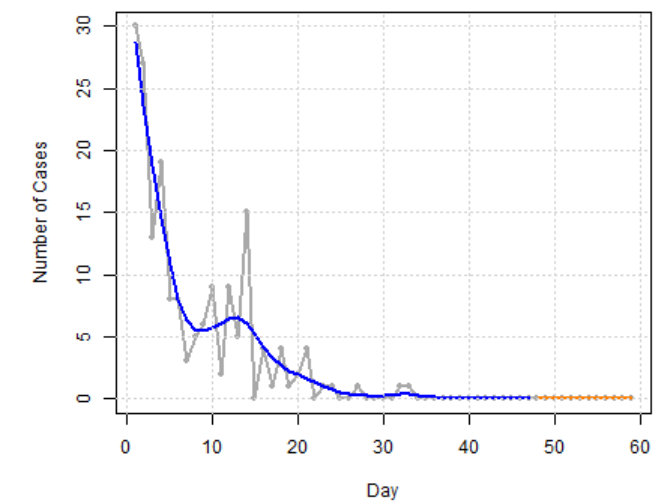
AIC = 230.878
BIC = 245.68
Training MSE = 5.66
Testing MSE = 148.75

New Cases in Montenegro (Actual vs. Natural Spline)



AIC = 258.177
BIC = 269.278
Training MSE = 11.02
Testing MSE = 2.54

New Cases in Montenegro (Actual vs. Smoothing Spline)



Degrees of Freedom = 10.647
AIC = 513.671
BIC = 533.369
Training MSE = 5.24
Testing MSE = 0