



Modeling the Dynamics of COVID-19

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Data Source

- ☒ Local
☐ Our World In Data

Continent

Europe

Country

Estonia

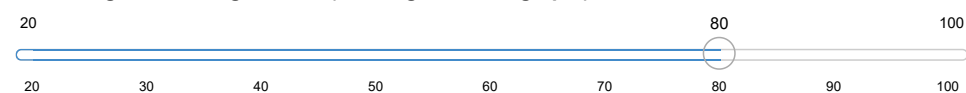
Modeling Period

2020-04-04

to

2020-06-01

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



Variable of Interest

- ☒ New Cases
☐ New Deaths

Estonia

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

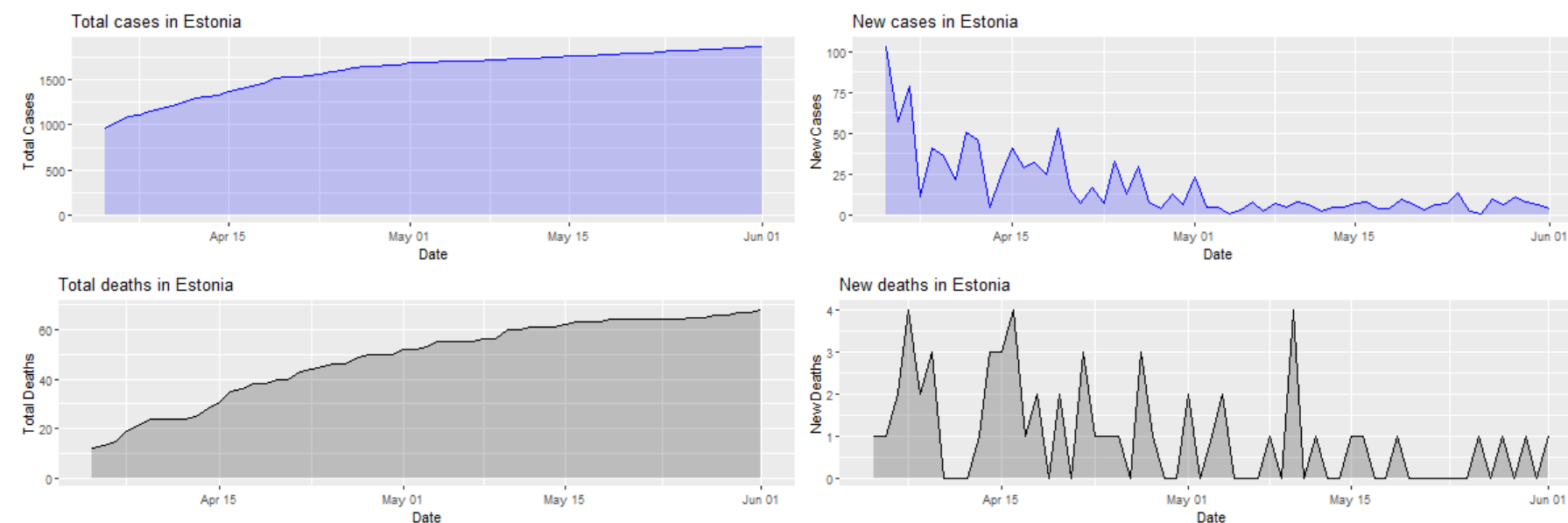
The first case was reported on: **2020-04-04**

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

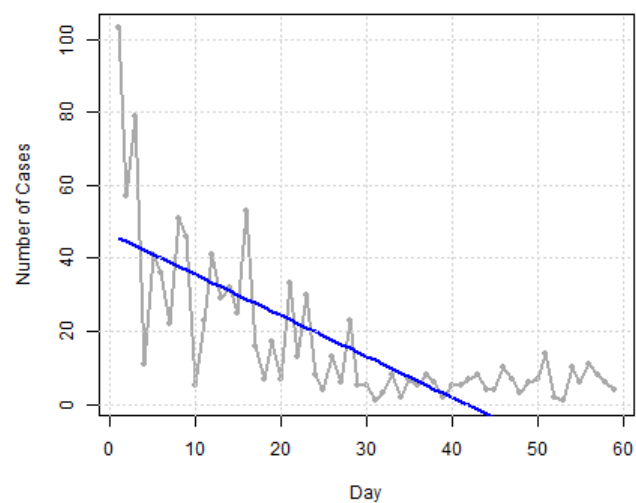
The total cumulative number of cases by the last day in the selected period is **1869** cases.

The total number of deaths by the last day in the selected period is **68** deaths.

Cases vs. Deaths Overview

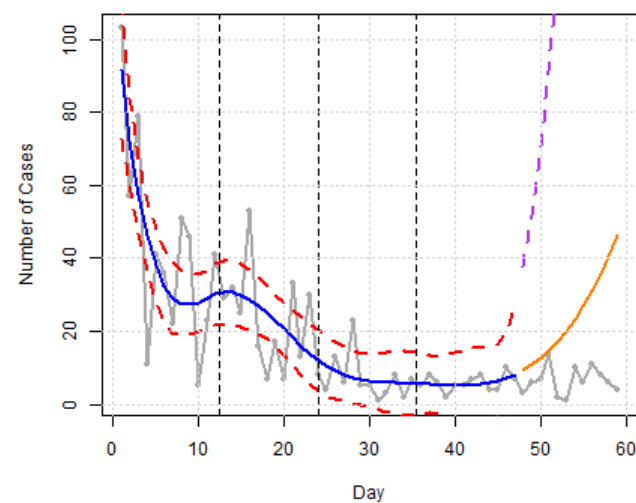


New Cases in Estonia (Actual vs. LR)



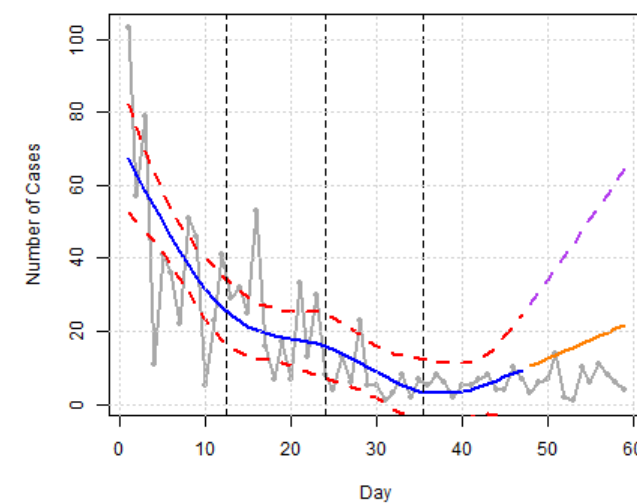
AIC = 394.723
BIC = 400.273
Training MSE = 228.79
Testing MSE = 422.85

New Cases in Estonia (Actual vs. Cubic Spline)



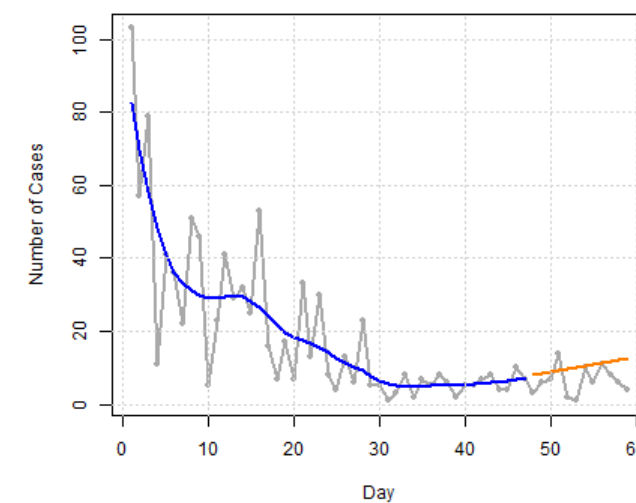
AIC = 376.713
BIC = 391.514
Training MSE = 126.07
Testing MSE = 453.21

New Cases in Estonia (Actual vs. Natural Spline)



AIC = 386.025
BIC = 397.126
Training MSE = 167.35
Testing MSE = 116.38

New Cases in Estonia (Actual vs. Smoothing Spline)



Degrees of Freedom = 8.902
AIC = 11,917.78
BIC = 11,934.25
Training MSE = 126.6
Testing MSE = 29.42