

Modeling the Dynamics of COVID-19

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Data Source

- ☒ Local
☐ Our World In Data

Continent

Europe

Country

Latvia

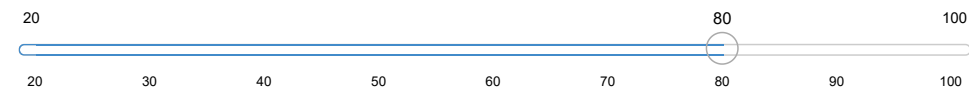
Modeling Period

2020-04-04

to

2020-06-01

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



Variable of Interest

- ☒ New Cases
☐ New Deaths

Latvia

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

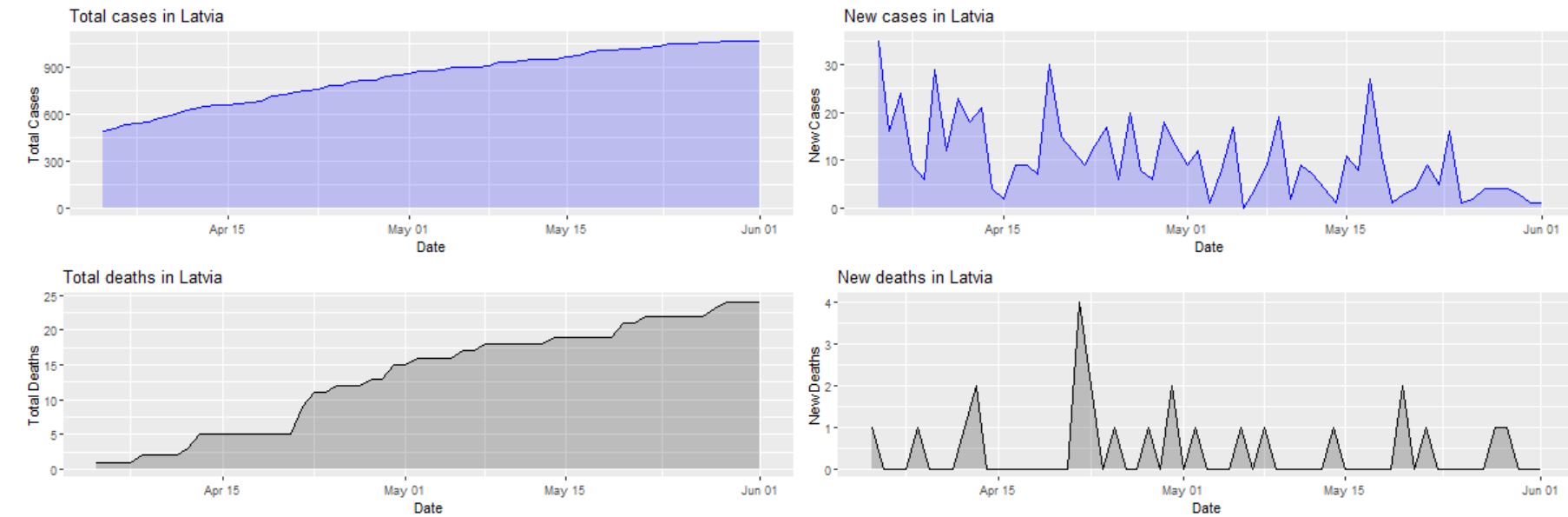
The first case was reported on: **2020-04-04**

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

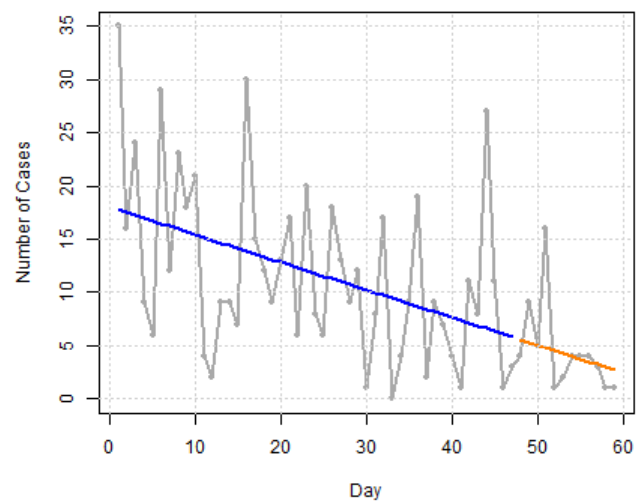
The total cumulative number of cases by the last day in the selected period is **1066** cases.

The total number of deaths by the last day in the selected period is **24** deaths.

Cases vs. Deaths Overview

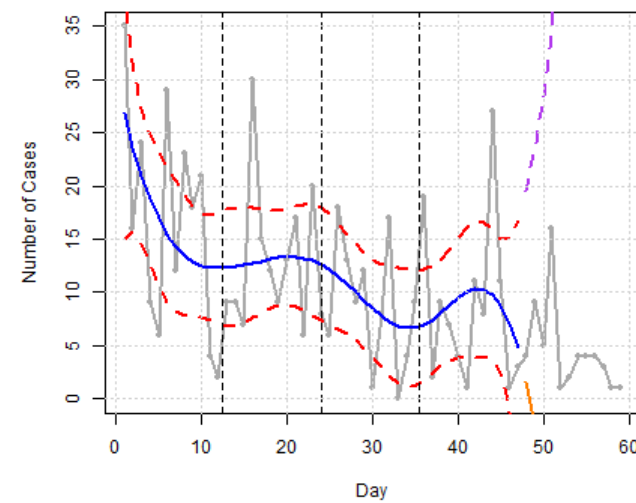


New Cases in Latvia (Actual vs. LR)



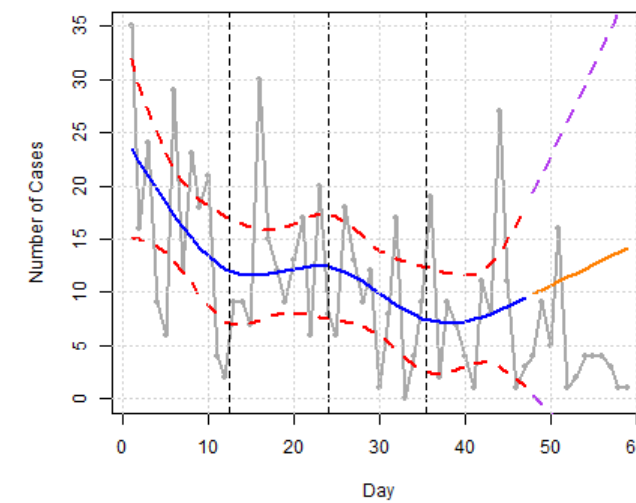
AIC = 328.724
BIC = 334.275
Training MSE = 56.18
Testing MSE = 13.89

New Cases in Latvia (Actual vs. Cubic Spline)



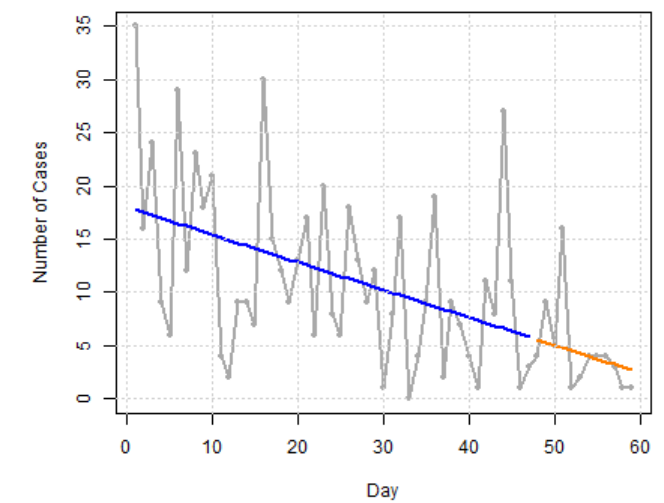
AIC = 333.343
BIC = 348.144
Training MSE = 50.1
Testing MSE = 3,464.7

New Cases in Latvia (Actual vs. Natural Spline)



AIC = 331.443
BIC = 342.544
Training MSE = 52.39
Testing MSE = 80.28

New Cases in Latvia (Actual vs. Smoothing Spline)



Degrees of Freedom = 2
AIC = 5,284.945
BIC = 5,288.646
Training MSE = 56.18
Testing MSE = 13.89