



# Modeling the Dynamics of COVID-19

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## Data Source

- ☒ Local  
☐ Our World In Data

## Continent

Europe ▼

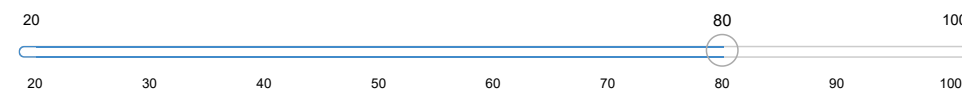
## Country

Greece ▼

## Modeling Period

2020-04-04 to 2020-06-01

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



## Variable of Interest

- ☒ New Cases  
☐ New Deaths

## Greece

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

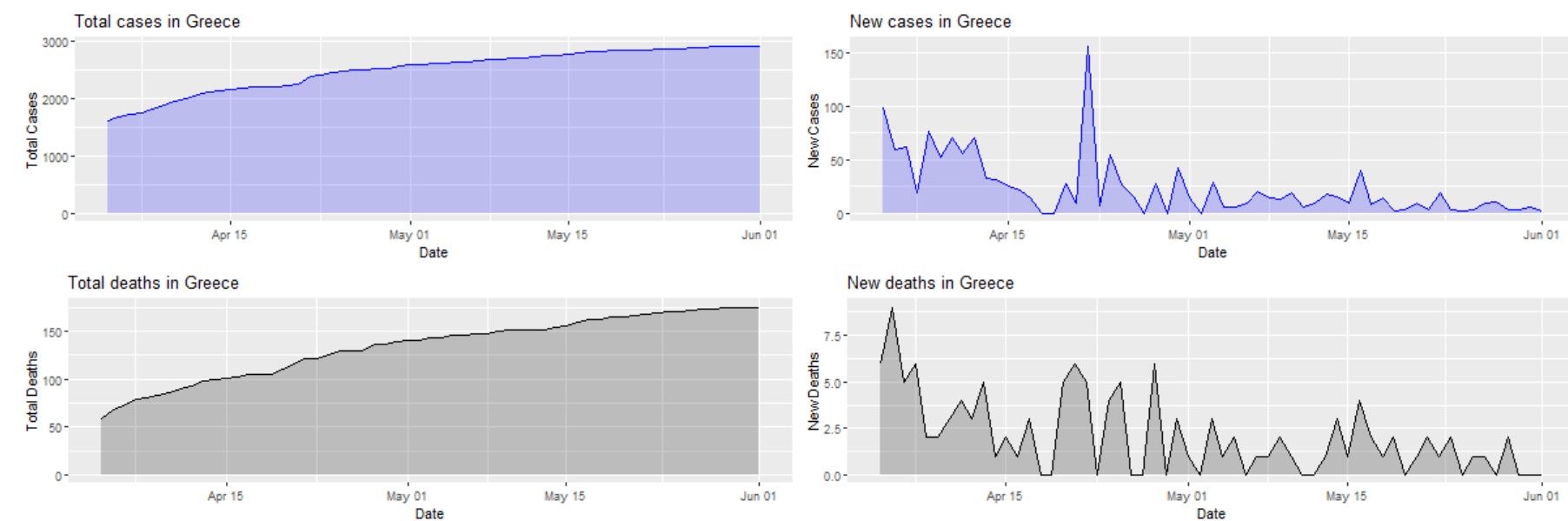
The first case was reported on: **2020-04-04**

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

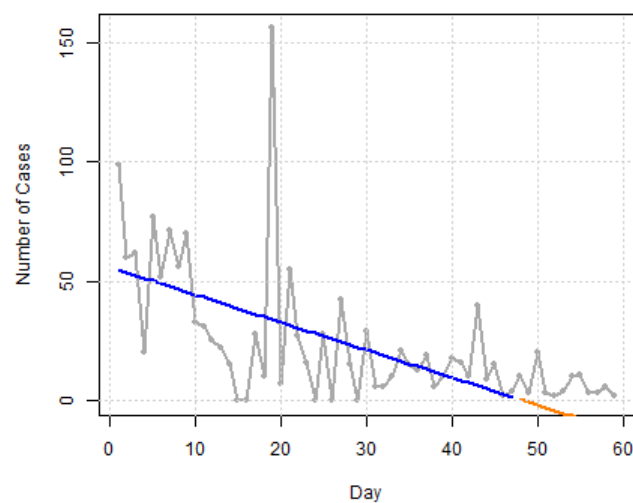
The total cumulative number of cases by the last day in the selected period is **2917** cases.

The total number of deaths by the last day in the selected period is **175** deaths.

## Cases vs. Deaths Overview

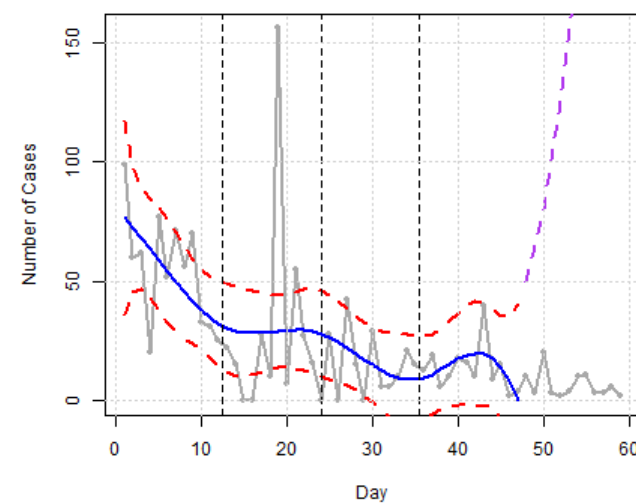


New Cases in Greece (Actual vs. LR)



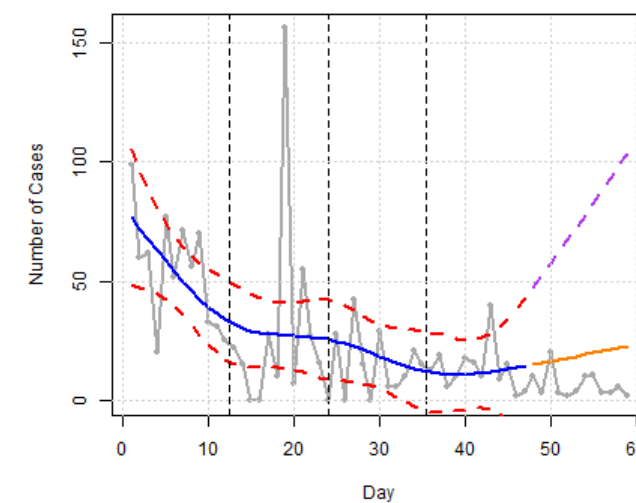
AIC = 444.147  
BIC = 449.697  
Training MSE = 654.85  
Testing MSE = 180.02

New Cases in Greece (Actual vs. Cubic Spline)



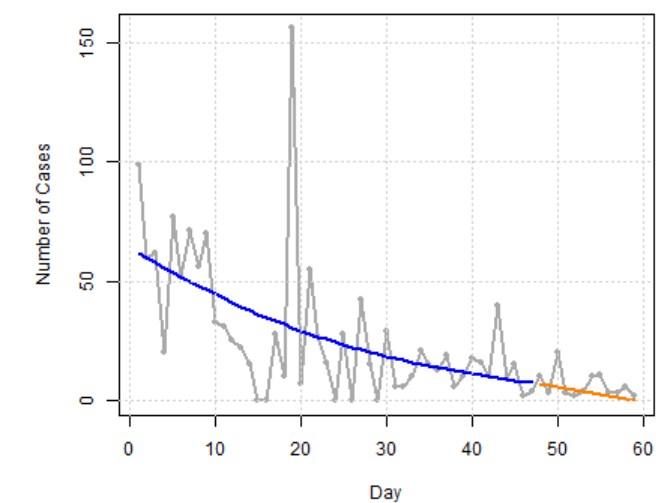
AIC = 448.78  
BIC = 463.581  
Training MSE = 584.18  
Testing MSE = 44,087.33

New Cases in Greece (Actual vs. Natural Spline)



AIC = 445.985  
BIC = 457.086  
Training MSE = 599.35  
Testing MSE = 199.31

New Cases in Greece (Actual vs. Smoothing Spline)



Degrees of Freedom = 2.698  
AIC = 58,509.25  
BIC = 58,514.24  
Training MSE = 622.38  
Testing MSE = 32.37