

# Modeling the Dynamics of COVID-19

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## Data Source

- ☒ Local  
☐ Our World In Data

## Continent

Europe

## Country

Poland

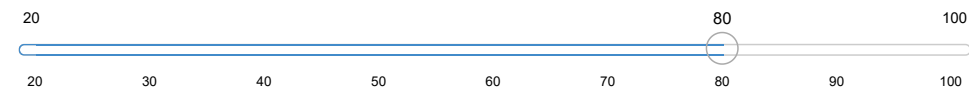
## Modeling Period

2020-04-04

to

2020-06-01

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



## Variable of Interest

- ☒ New Cases  
☐ New Deaths

## Poland

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

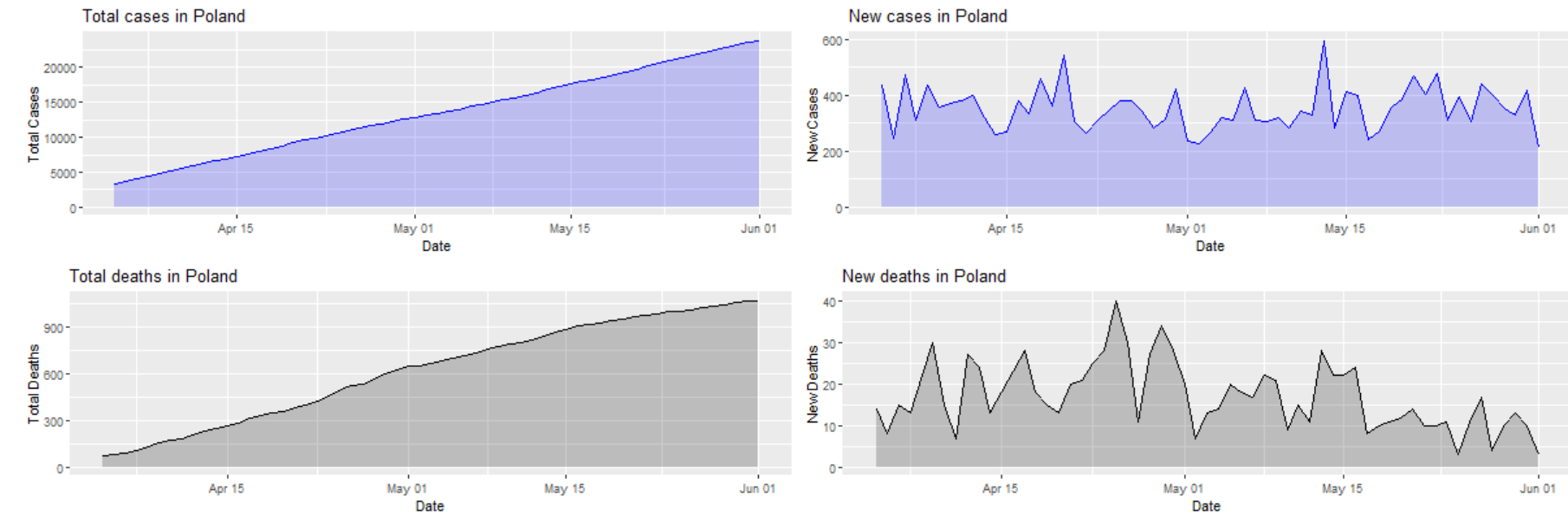
The first case was reported on: **2020-04-04**

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

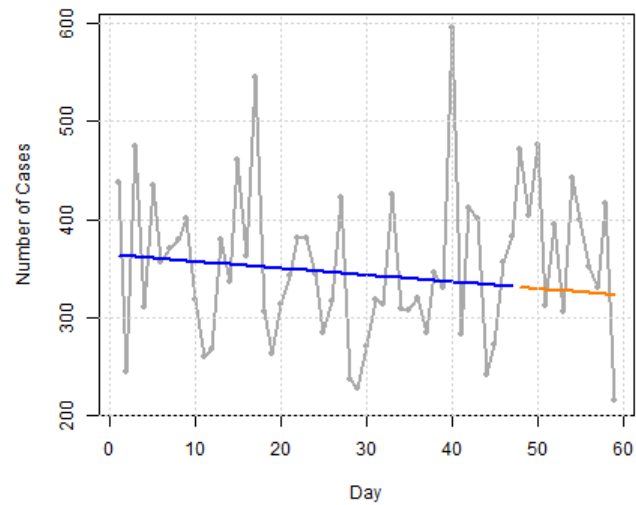
The total cumulative number of cases by the last day in the selected period is **23786** cases.

The total number of deaths by the last day in the selected period is **1064** deaths.

## Cases vs. Deaths Overview

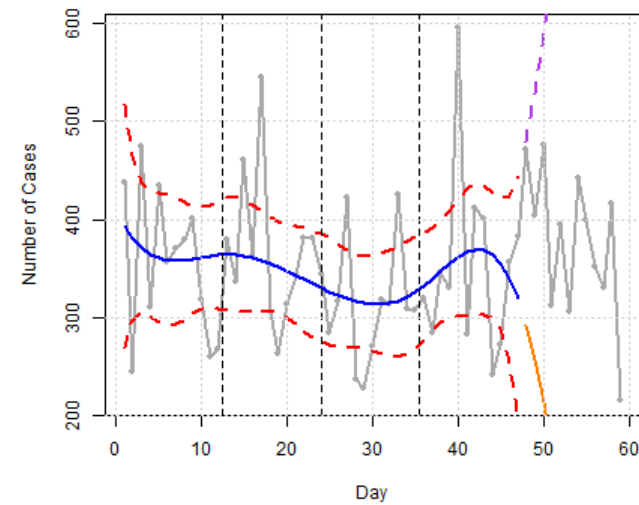


New Cases in Poland (Actual vs. LR)



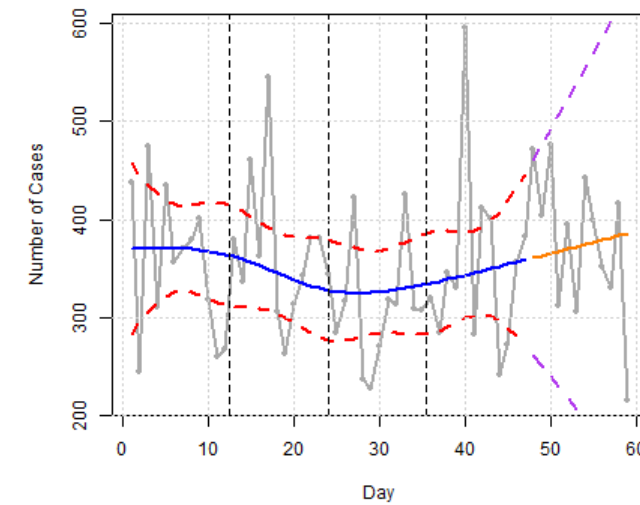
AIC = 547.027  
BIC = 552.577  
Training MSE = 5,844.95  
Testing MSE = 7,648.45

New Cases in Poland (Actual vs. Cubic Spline)



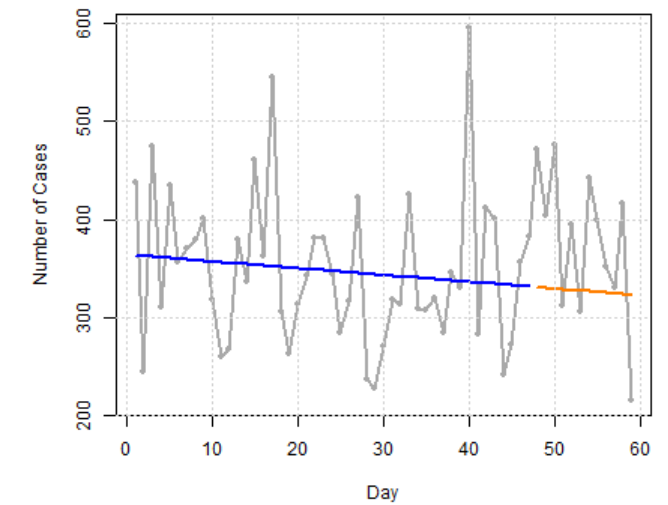
AIC = 554.352  
BIC = 569.153  
Training MSE = 5,521.53  
Testing MSE = 287,021.7

New Cases in Poland (Actual vs. Natural Spline)



AIC = 551.571  
BIC = 562.672  
Training MSE = 5,666.65  
Testing MSE = 6,080.87

New Cases in Poland (Actual vs. Smoothing Spline)



Degrees of Freedom = 2  
AIC = 549,423  
BIC = 549,426.7  
Training MSE = 5,844.89  
Testing MSE = 7,647.81