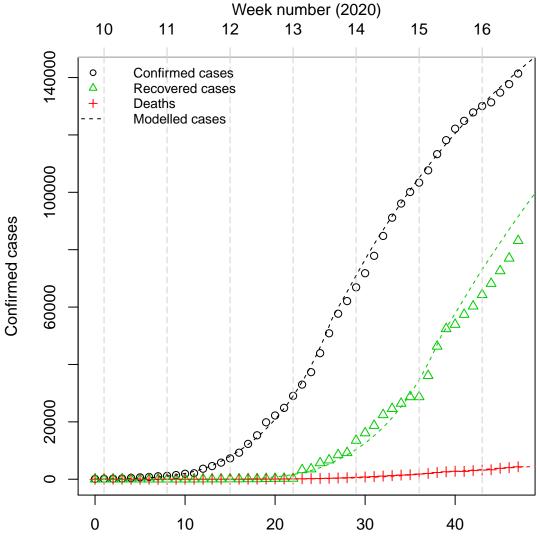
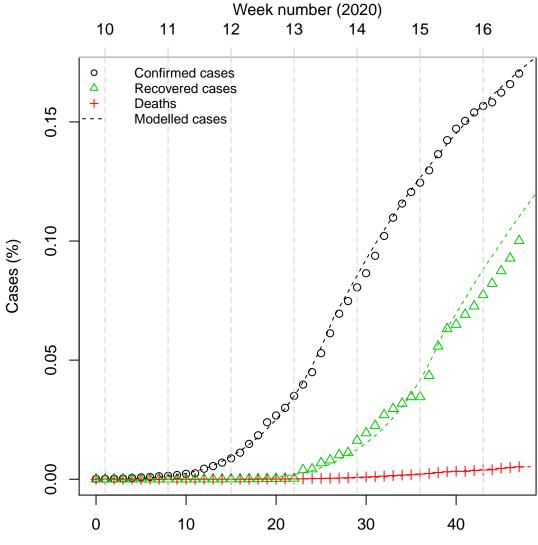
Situation vs Model COVID-19 in Germany



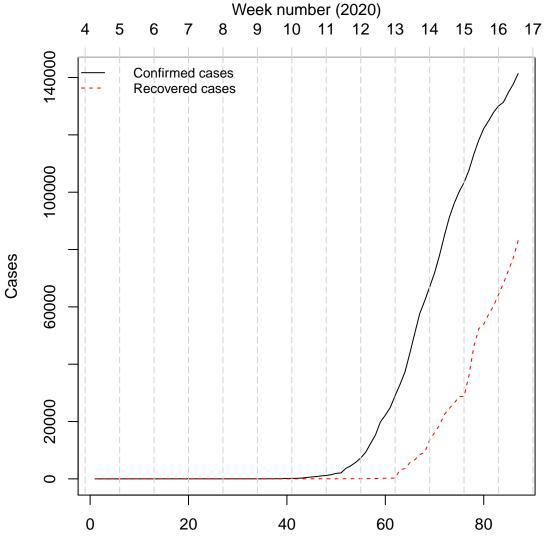
Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Situation vs Model COVID-19 in Germany



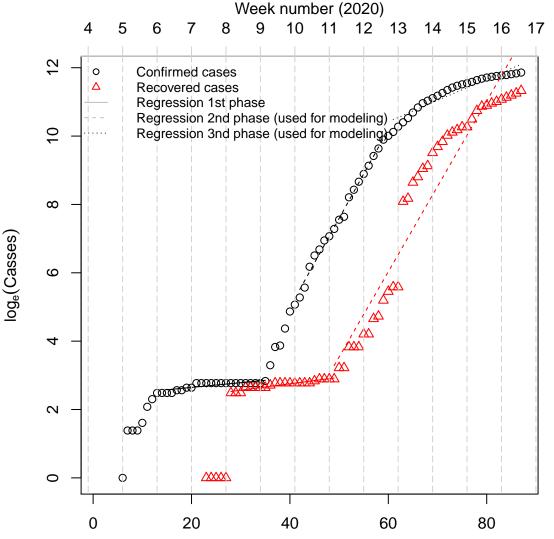
Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Situation COVID-19 in Germany



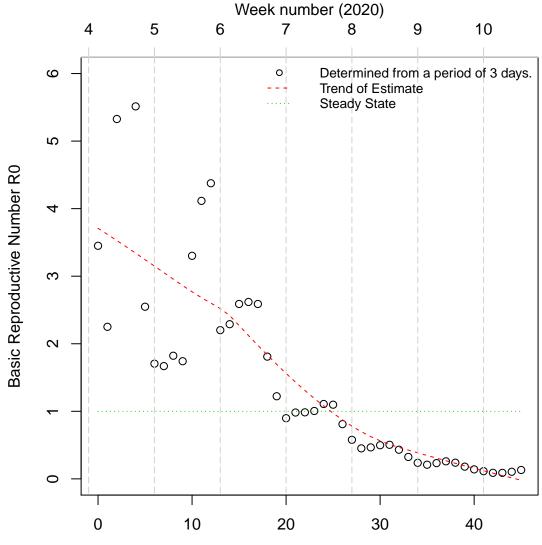
Days after 1/22/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Situation COVID-19 in Germany



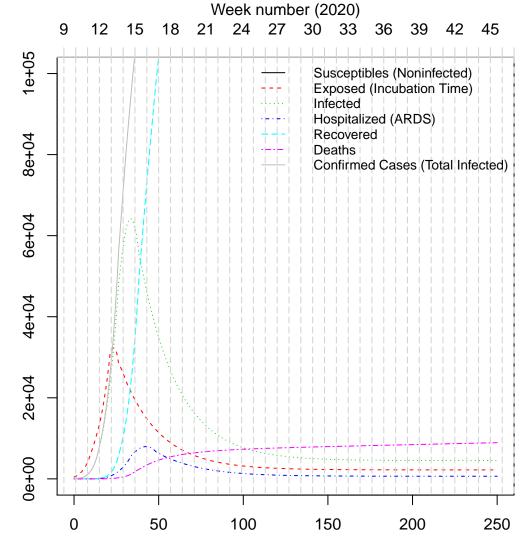
Days after 1/22/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Situation COVID-19 in Germany



Days after 3/3/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

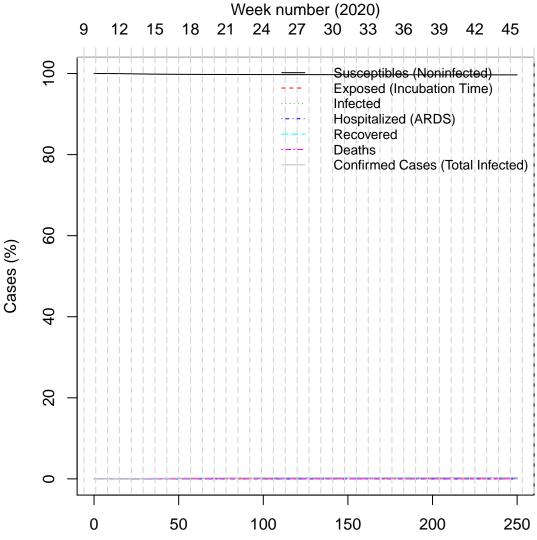
Forecast COVID-19 in Germany



Cases

Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

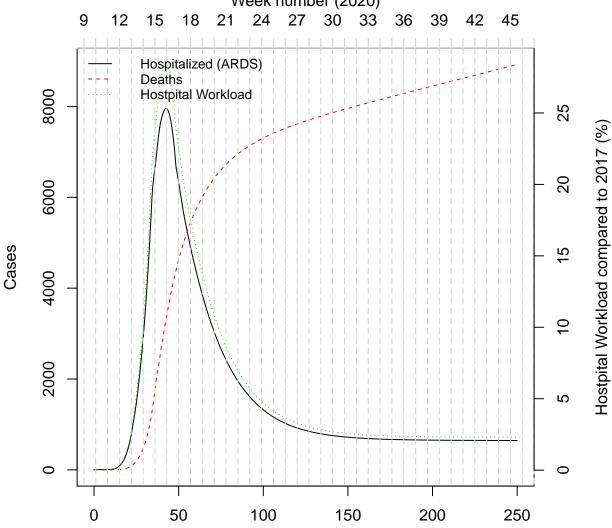
Forecast COVID-19 in Germany



Days after 3/1/20

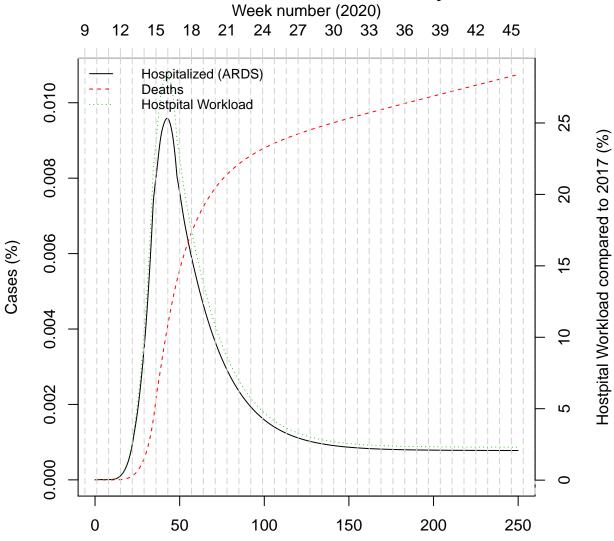
Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Forecast COVID-19 in Germany Week number (2020)



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Forecast COVID-19 in Germany



Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 1 no social distancing and no shutdown Week number (2020) 24 45 12 15 18 21 36 39 8e+07 Susceptibles (Noninfected) Exposed (Incubation Time) Infected Hospitalized (ARDS) Recovered Deaths Confirmed Cases (Total Infected) 6e+07 Cases 4e+07 2e+07 00+00

Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

150

200

250

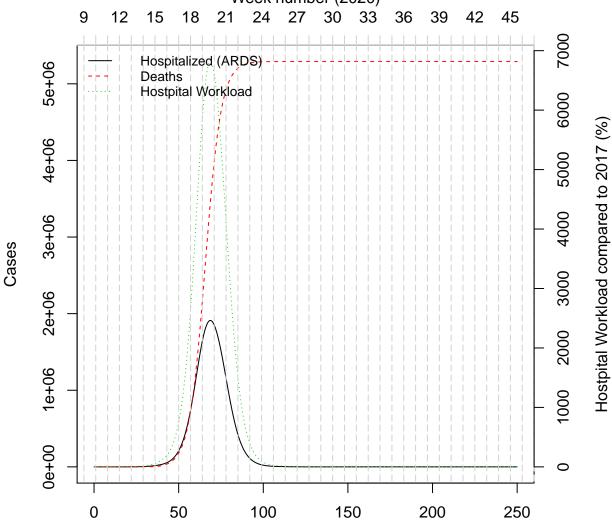
100

0

Senario 1 no social distenining / no shutdown Week number (2020) Susceptibles (Noninfected) Exposed (Incubation Time) Infected Hospitalized (ARDS) Recovered Deaths Confirmed Cases (Total Infected) Cases (%)

Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 1 no social distancing and no shutdown Week number (2020)

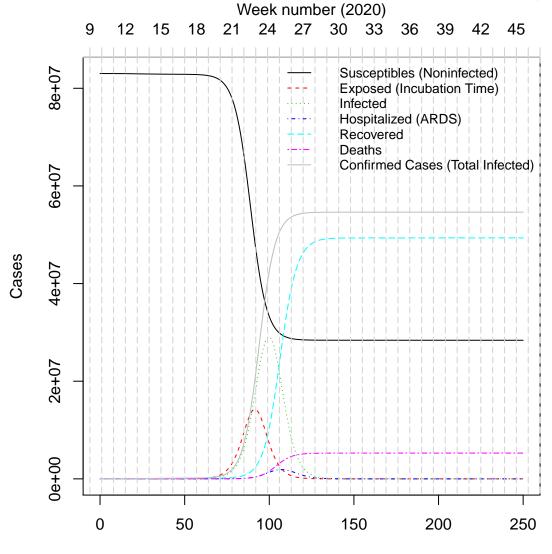


Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 1 no social distancing and no shutdown Week number (2020) Hospitalized (ARDS) Deaths Hostpital Workload Hostpital Workload compared to 2017 (%) Cases (%)

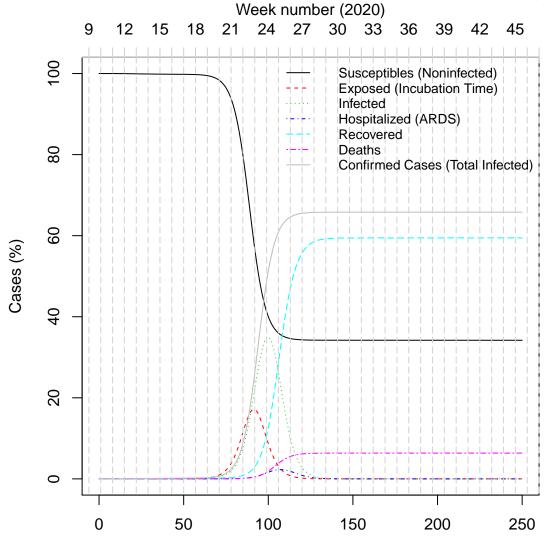
Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 2 exit after day 50 without social distancing



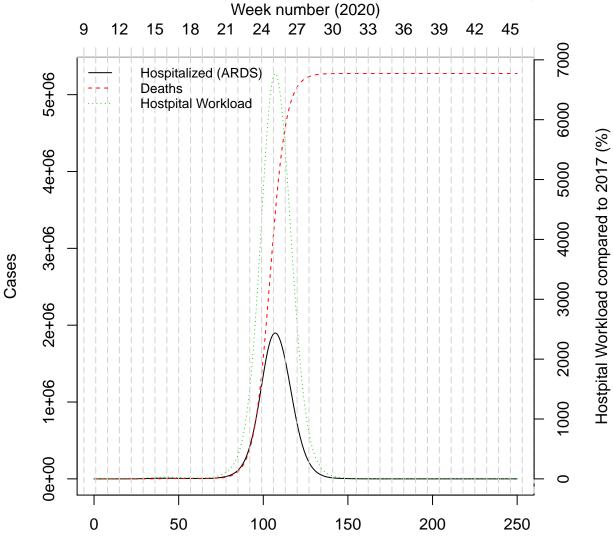
Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 2 exit after day 50 without social distancing



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Scenario 2 exit after day 50 without social distancing



Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 2 exit after day 50 without social distancing Week number (2020) 45 12 18 36 7000 Hospitalized (ARDS) Deaths 9 Hostpital Workload 0009 Hostpital Workload compared to 2017 (%) 2 3000 က α

Cases (%)

Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

150

200

250

100

50

Scenario 3 exit after day 50 with social distancing Week number (2020) 9 24 45 12 15 18 21 36 39 42 8e+07 Susceptibles (Noninfected) Exposed (Incubation Time) Infected Hospitalized (ARDS) Recovered Deaths Confirmed Cases (Total Infected) 6e+07 Cases 4e+07 2e+07 00+00

Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

150

200

250

100

0

Scenario 3 exit after day 50 with social distancing Week number (2020) Susceptibles (Noninfected) Exposed (Incubation Time) Infected Hospitalized (ARDS) Recovered Deaths Confirmed Cases (Total Infected) Cases (%)

Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 3 exit after day 50 with social distancing Week number (2020) 45 12 15 18 36 Hospitalized (ARDS) Deaths 3000 Hostpital Workload Hostpital Workload compared to 2017 (%) 3e+06 2000 2e+06 1500 1e+06 500 00+00 0 50 100 150 200 250

Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 3 exit after day 50 with social distancing Week number (2020) Hospitalized (ARDS) Deaths Hostpital Workload Hostpital Workload compared to 2017 (%) Cases (%) α

Days after 3/1/20 Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Forecast COVID-19 in Germany Week number (2020) 9 11 13 15 17 25 27 29 31 5500000 Hospitalized (ARDS) Deaths 5000000 R0 = 0.4R0 = 0.64500000 R0 = 0.8R0 = 14000000 R0 = 1.2R0 = 1.43500000 R0 = 1.6R0 = 1.8Growths Rate (D^{-1}) 3000000 R0 = 2R0 = 2.22500000 R0 = 2.42000000 1500000 1000000 500000 0 0.32 0 50 100 150

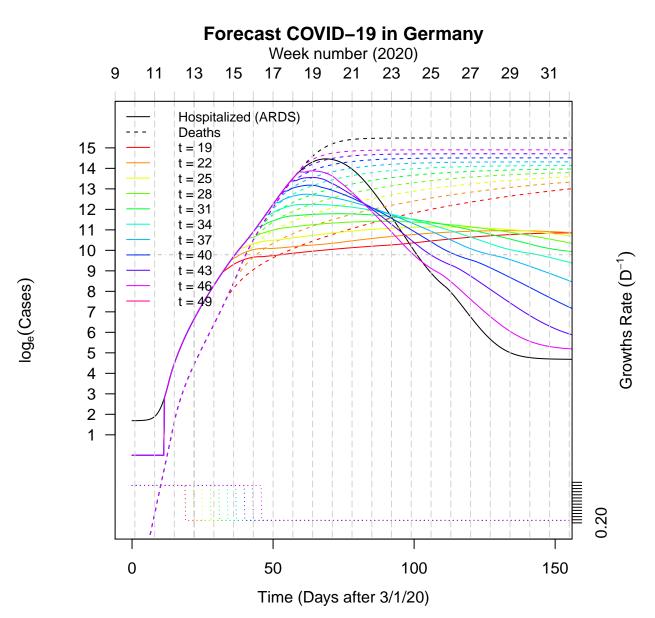
Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Time (Days after 3/1/20)

Forecast COVID-19 in Germany Week number (2020) 9 11 13 15 17 19 25 27 29 31 5500000 Hospitalized (ARDS) Deaths 5000000 t = 19t = 224500000 t = 25t = 284000000 t = 31 t = 343500000 t = 37t = 403000000 Growths Rate (D^{-1}) t = 43t = 462500000 t = 492000000 1500000 1000000 500000 0 0.20 0 50 100 150

Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de

Time (Days after 3/1/20)



Created by Sören Thiering (04/18/2020). Email: soeren.thiering@hs-anhalt.de