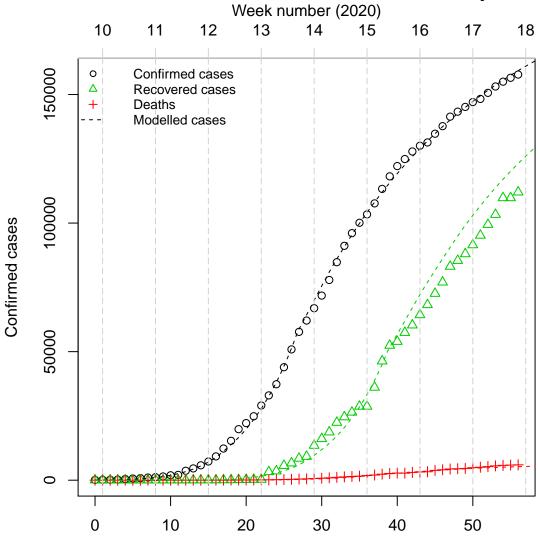
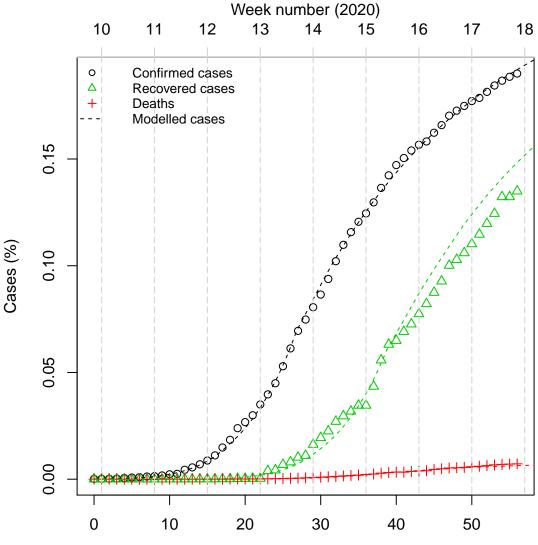
Situation vs Model COVID-19 in Germany



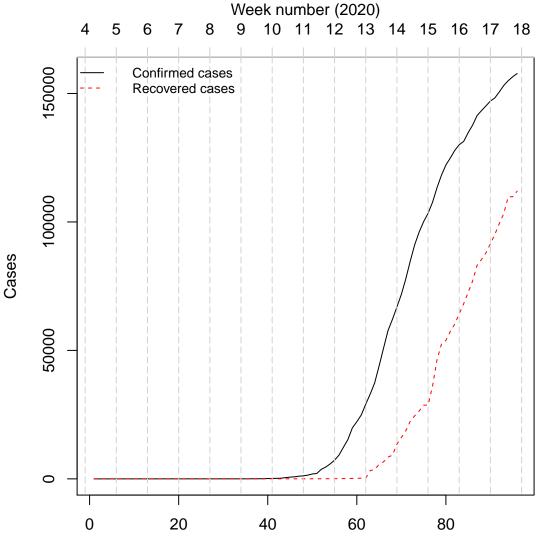
Days after 3/1/20 Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de

Situation vs Model COVID-19 in Germany



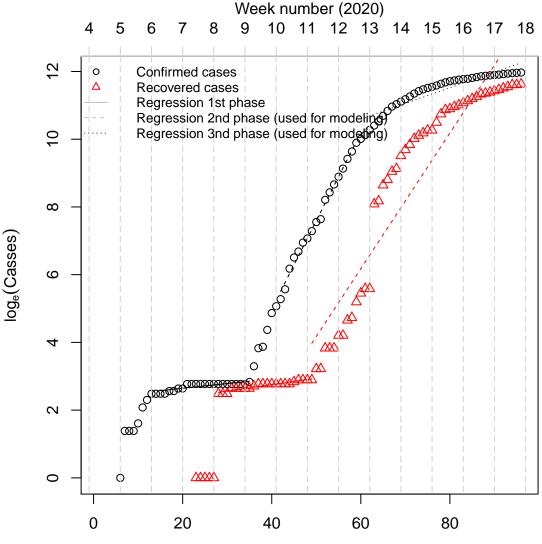
Days after 3/1/20 Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de

Situation COVID-19 in Germany



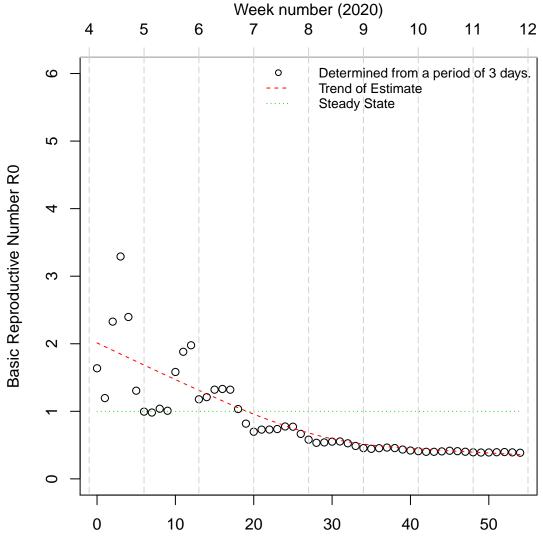
Days after 1/22/20 Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de

Situation COVID-19 in Germany

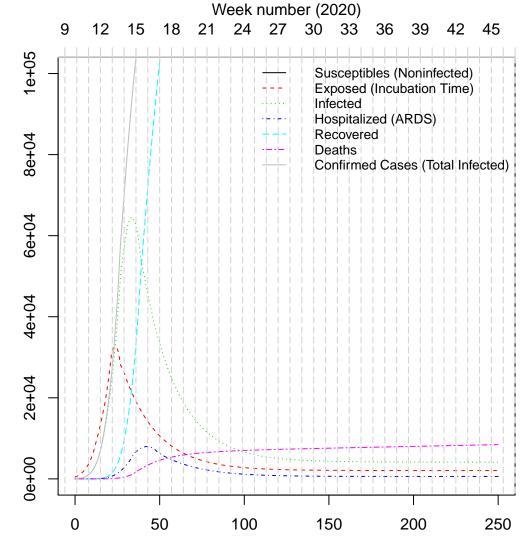


Days after 1/22/20 Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de

Situation COVID-19 in Germany

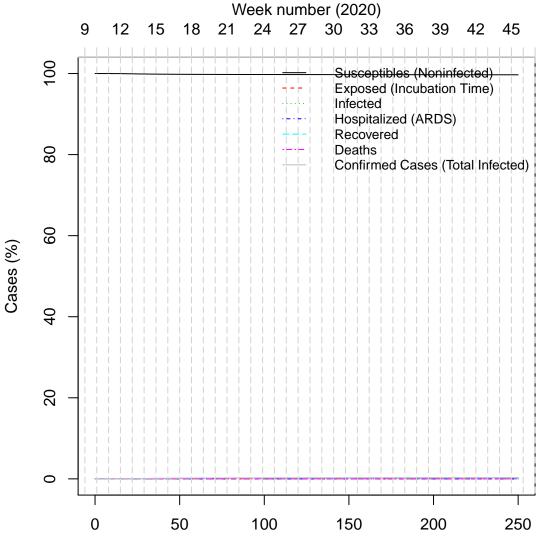


Days after 3/3/20 Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de

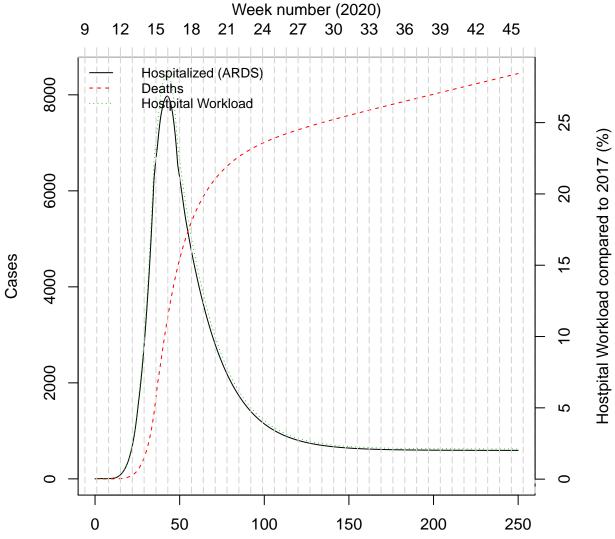


Cases

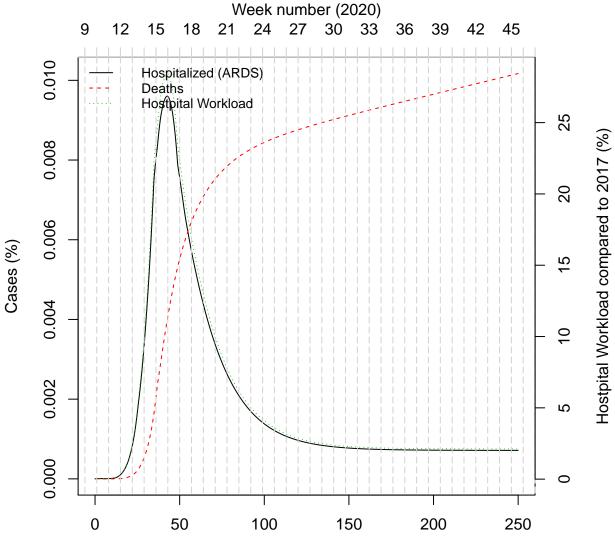
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Days after 3/1/20 Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 1 no social distancing and no shutdown Week number (2020) 24 45 12 15 18 21 36 39 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 (04/27/2020). Email: soeren.thiering@hs-anhalt.de

150

200

250

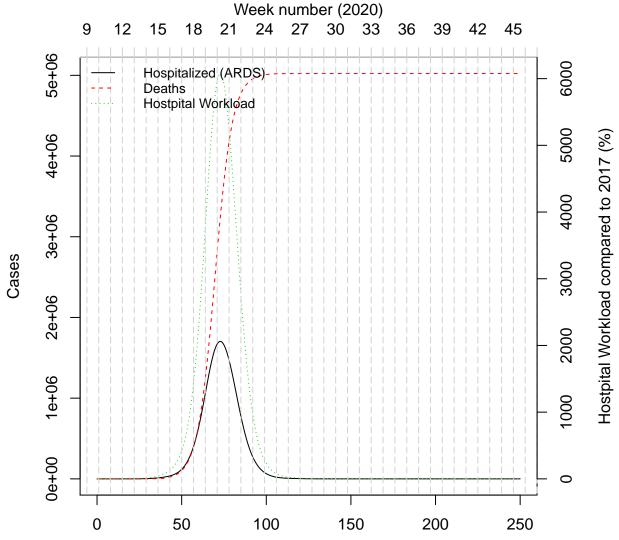
100

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 (04/27/2020). Email: soeren.thiering@hs-anhalt.de

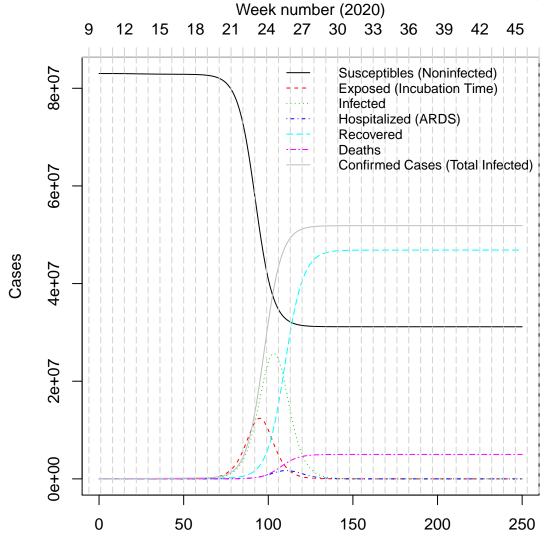
Scenario 1 no social distancing and no shutdown



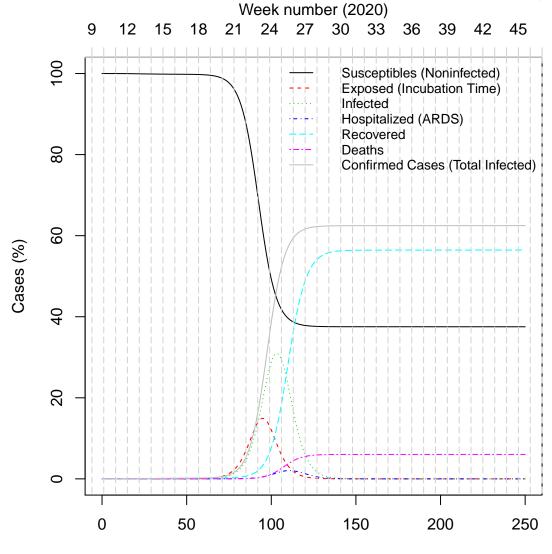
Days after 3/1/20 Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de

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

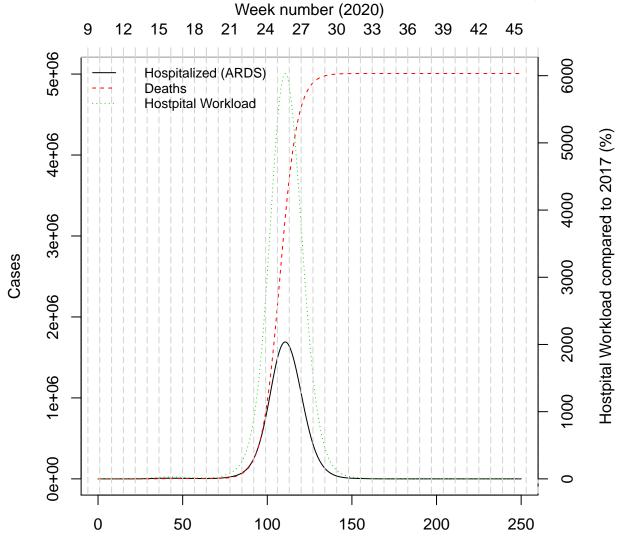
Days after 3/1/20 Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de



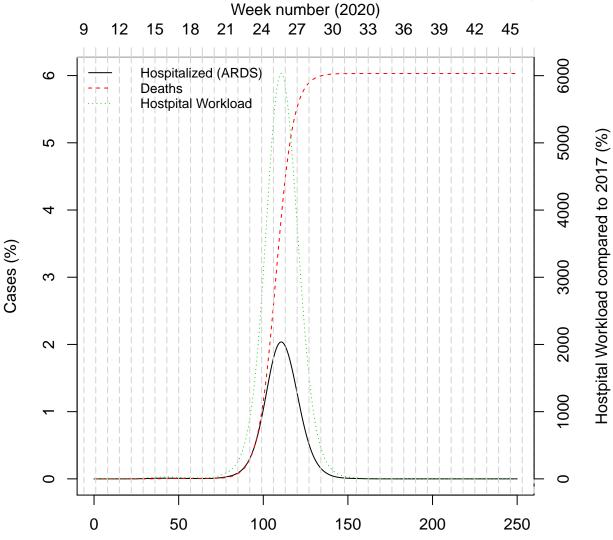
Days after 3/1/20 Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de



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Days after 3/1/20 Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 3 exit after day 50 with social distancing Week number (2020) 9 24 45 12 15 18 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 (04/27/2020). 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 (04/27/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 3 exit after day 50 with social distancing Week number (2020) 45 12 15 18 36 39 Hospitalized (ARDS) 3000 Deaths Hostpital Workload 3e+06 Hostpital Workload compared to 2017 (%) 2000 2e+06 Cases 1500 1000 1e+06 00+00 0 50 100 150 200 250

Days after 3/1/20 Created by Sören Thiering (04/27/2020). 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 (%)

Days after 3/1/20 Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de

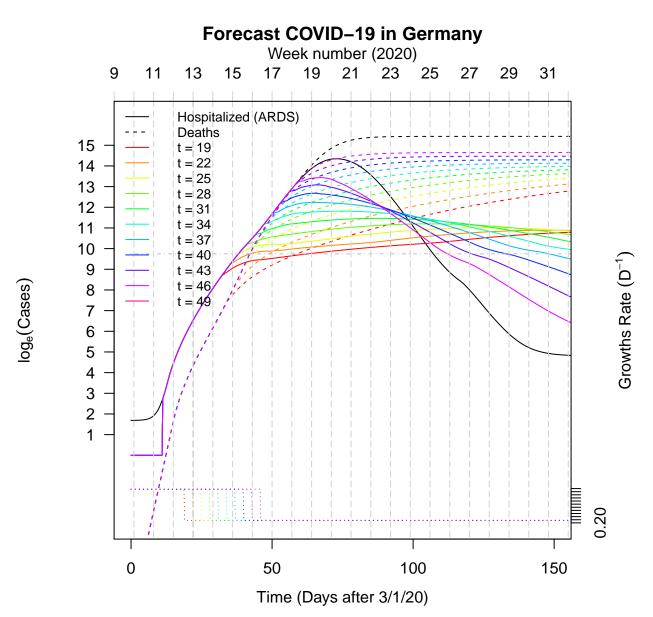
Forecast COVID-19 in Germany Week number (2020) 9 11 13 15 17 25 27 29 31 5000000 Hospitalized (ARDS) Deaths R0 = 0.44500000 R0 = 0.6R0 = 0.84000000 R0 = 1R0 = 1.23500000 R0 = 1.4R0 = 1.63000000 R0 = 1.8Growths Rate (D^{-1}) R0 = 22500000 R0 = 2.2Cases R0 = 2.42000000 1500000 1000000 500000 0 0.32 0 50 100 150 Time (Days after 3/1/20)

Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de

Forecast COVID-19 in Germany Week number (2020) 9 31 11 13 15 17 19 25 27 29 5000000 Hospitalized (ARDS) Deaths t = 19 4500000 t = 22t = 254000000 t = 28t = 31 3500000 t = 34t = 373000000 t = 40Growths Rate (D^{-1}) t = 432500000 t = 46Cases t = 492000000 1500000 1000000 500000 0 0.20 150 0 50 100

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Time (Days after 3/1/20)



Created by Sören Thiering (04/27/2020). Email: soeren.thiering@hs-anhalt.de