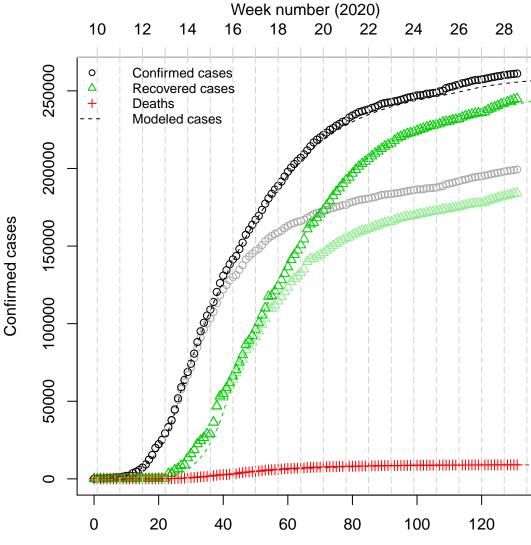
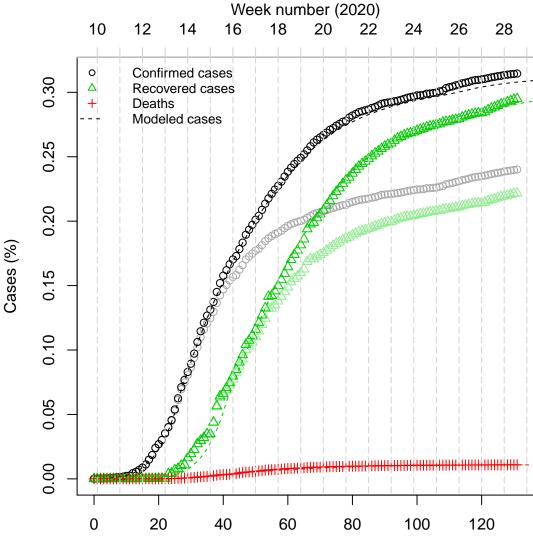
Situation vs Model COVID-19 in Germany

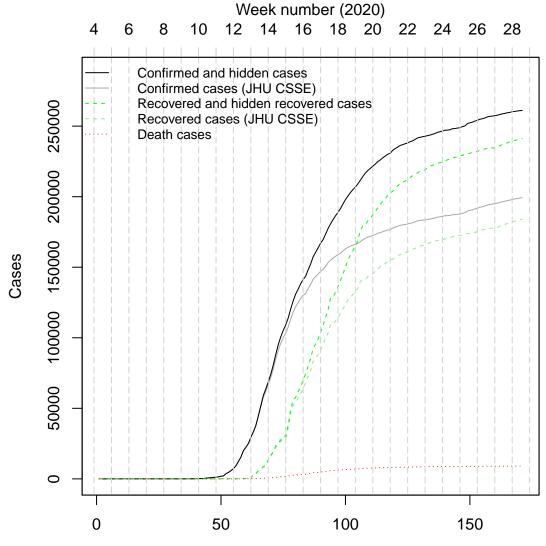


Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de

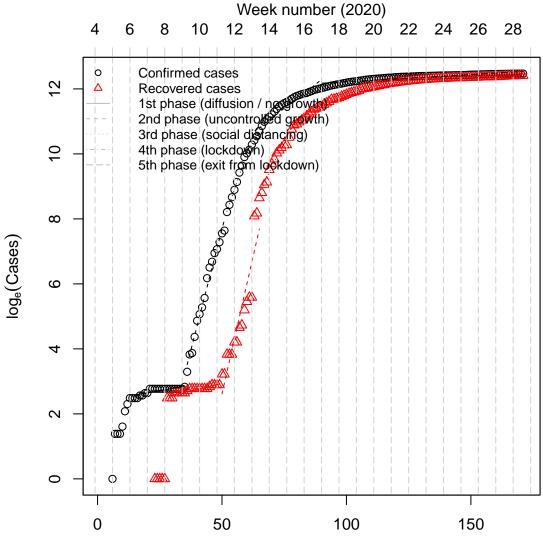
Situation vs Model COVID-19 in Germany



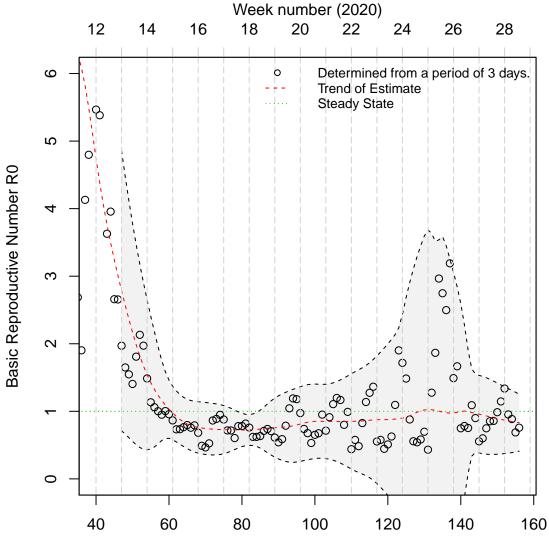
Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



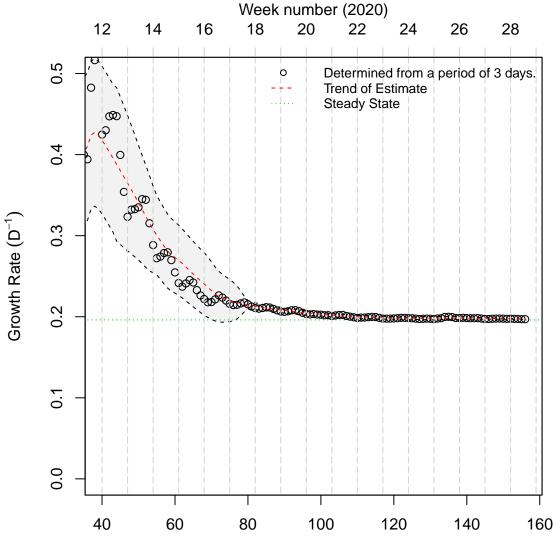
Days after 1/22/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



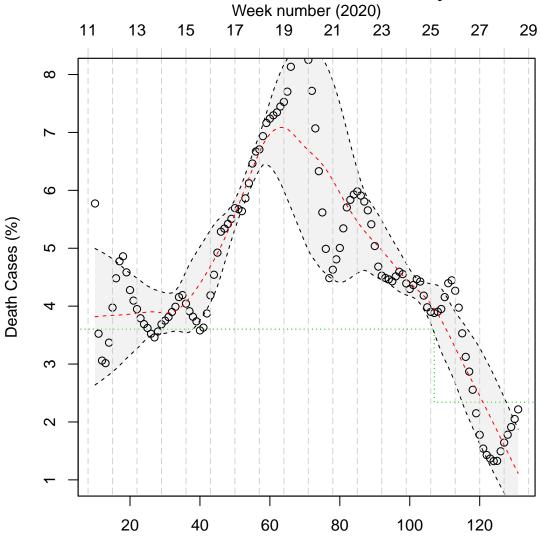
Days after 1/22/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



Days after 2/5/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de

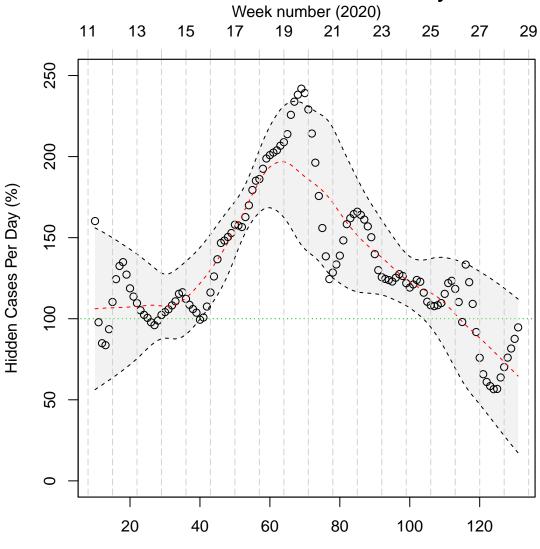


Days after 2/5/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de

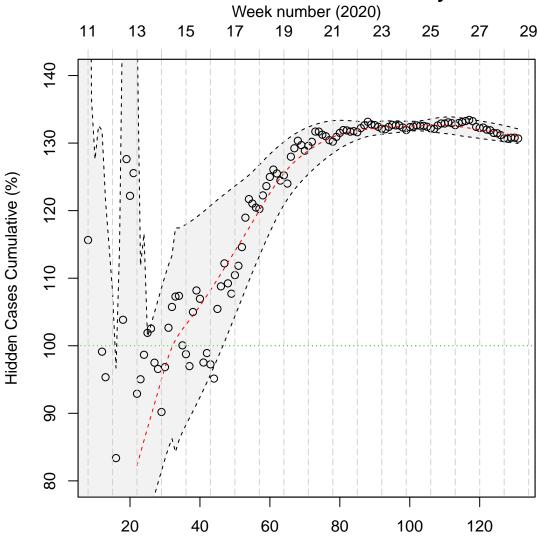


Days after 3/1/20

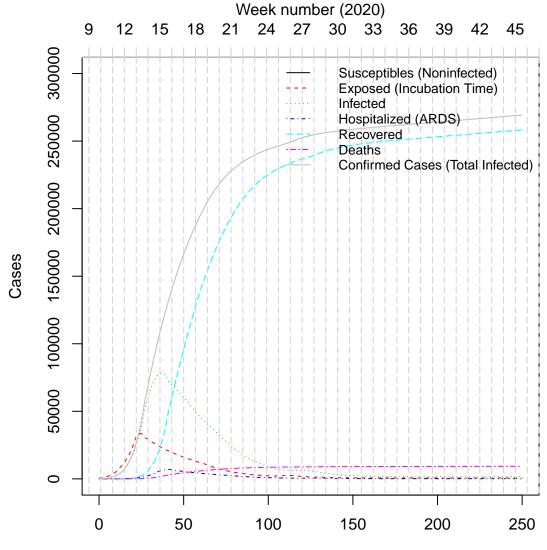
Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



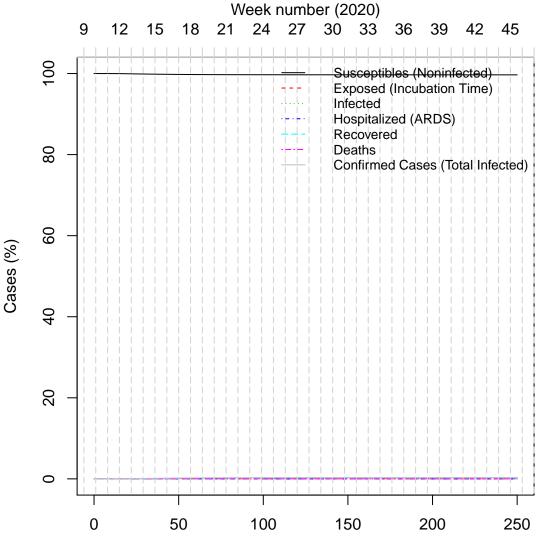
Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



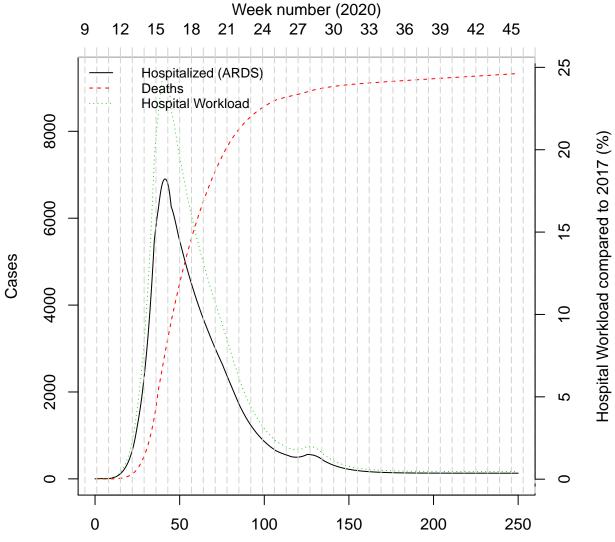
Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



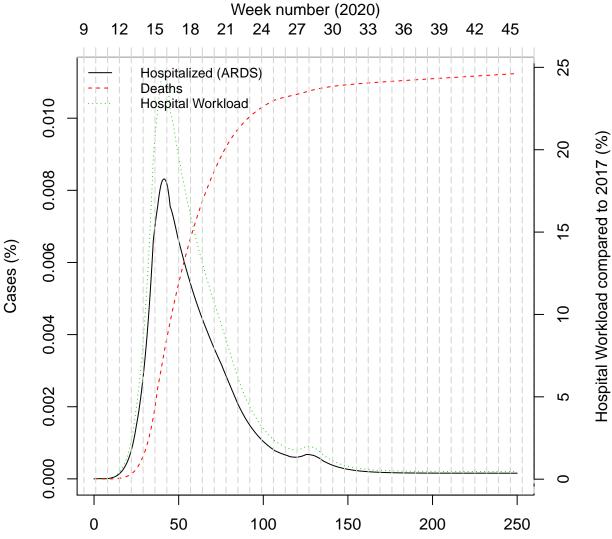
Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 1 no social distancing and no lockdown 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 (07/12/2020). Email: soeren.thiering@hs-anhalt.de

150

200

250

100

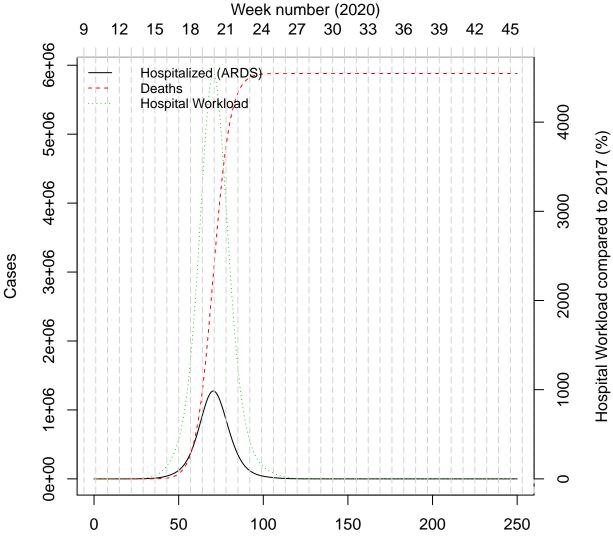
0

50

Scenario 1 no social distancing / no lockdown 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 (07/12/2020). Email: soeren.thiering@hs-anhalt.de

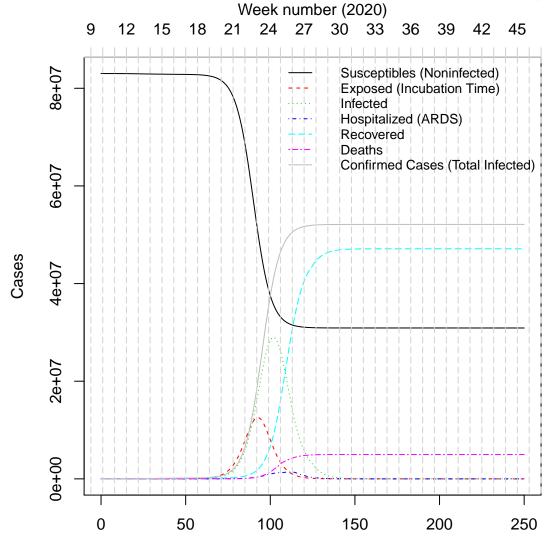
Scenario 1 no social distancing and no lockdown



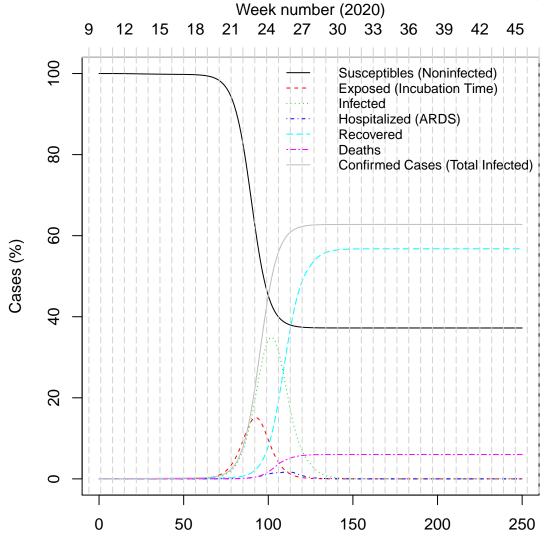
Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de

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

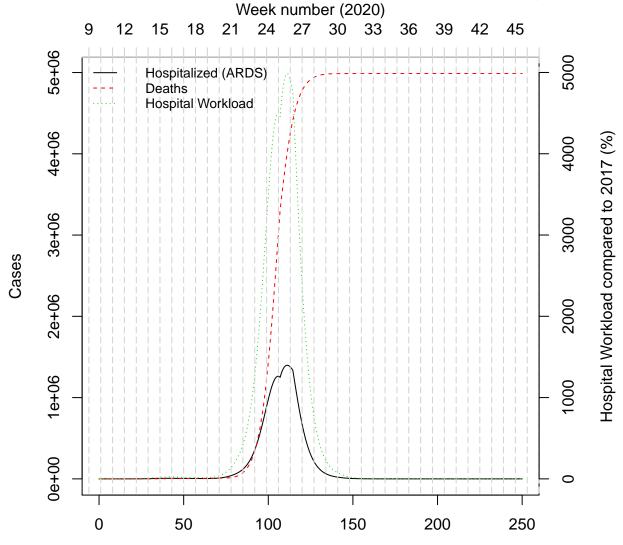
Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



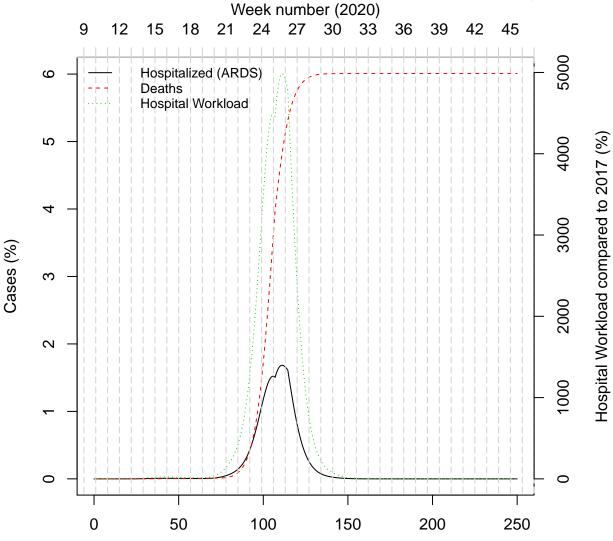
Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de



Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 3 exit after day 50 with social distancing Week number (2020) 9 24 45 12 15 18 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 (07/12/2020). Email: soeren.thiering@hs-anhalt.de

150

200

250

100

0

50

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 (07/12/2020). Email: soeren.thiering@hs-anhalt.de

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

Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 3 exit after day 50 with social distancing Week number (2020) 12 15 18 36 45 4000 Hospitalized (ARDS) Deaths Hospital Workload Hospital Workload compared to 2017 (%) က Cases (%) α 50 100 150 200 250 0

Days after 3/1/20 Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de

Forecast COVID-19 in Germany Week number (2020) 9 11 13 15 17 25 27 29 31 6000000 Hospitalized (ARDS) Deaths 5500000 R0 = 0.4R0 = 0.65000000 R0 = 0.8R0 = 14500000 R0 = 1.24000000 R0 = 1.4R0 = 1.63500000 R0 = 1.8Growth Rate (D^{-1}) R0 = 23000000 R0 = 2.2R0 = 2.42500000 2000000 1500000 1000000 500000 0 0.32 0 50 100 150

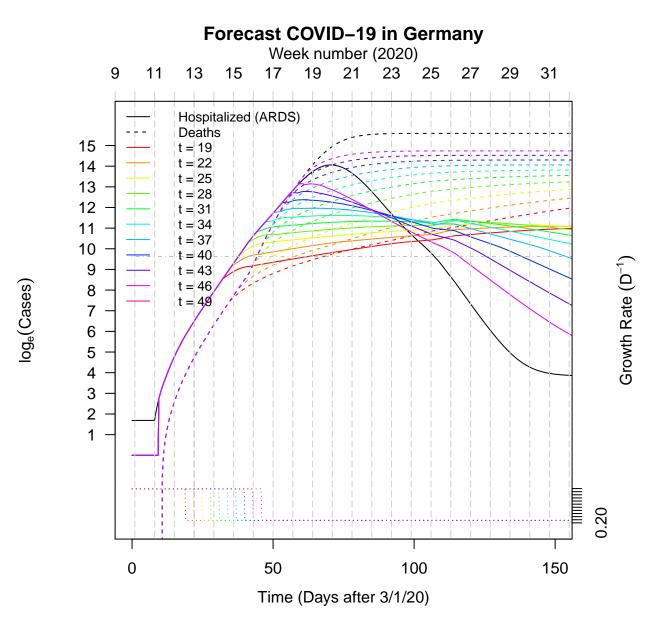
Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de

Time (Days after 3/1/20)

Forecast COVID-19 in Germany Week number (2020) 9 31 11 13 15 17 19 25 27 29 6000000 Hospitalized (ARDS) Deaths 5500000 t = 19t = 22 5000000 t = 25t = 284500000 t = 31 4000000 t = 34t = 37 3500000 t = 40Growth Rate (D⁻¹) t = 433000000 t = 46Cases t = 492500000 2000000 1500000 1000000 500000 0 0.20 150 0 50 100

Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de

Time (Days after 3/1/20)



Created by Sören Thiering (07/12/2020). Email: soeren.thiering@hs-anhalt.de