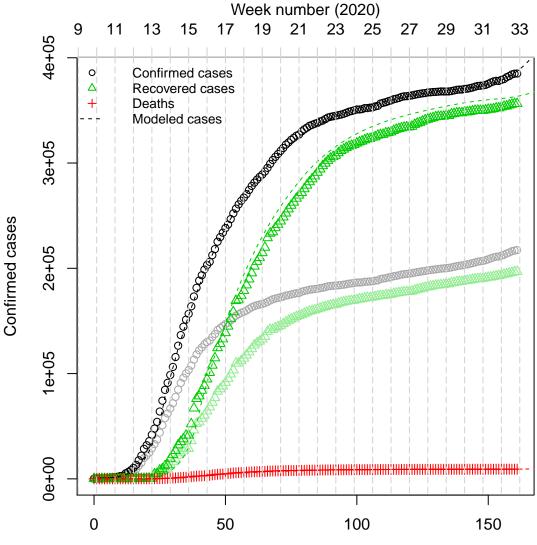
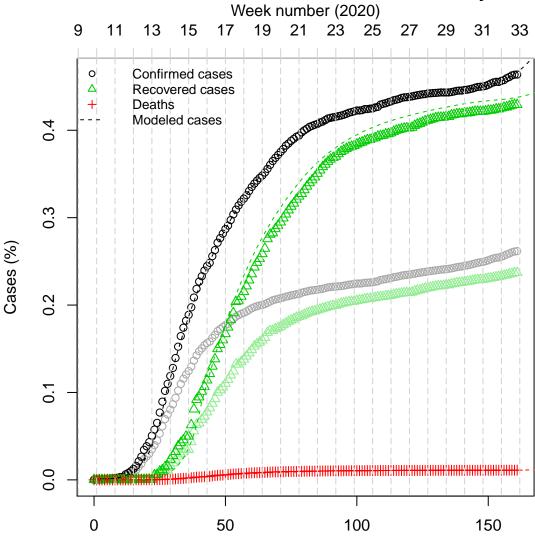
Situation vs Model COVID-19 in Germany

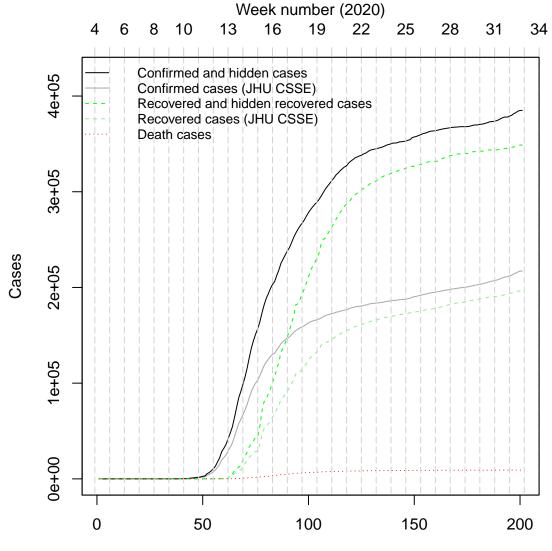


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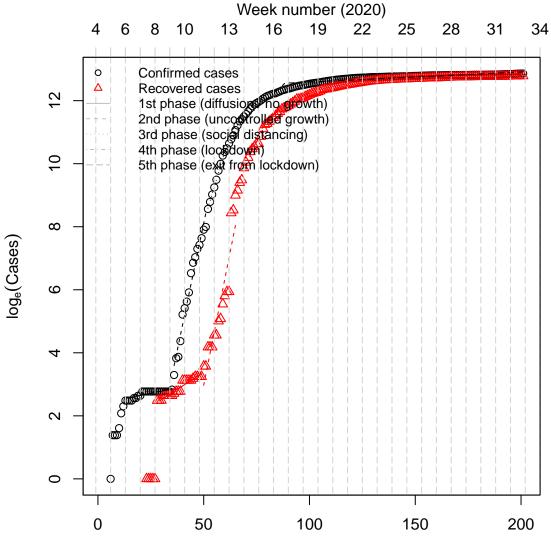
Situation vs Model COVID-19 in Germany



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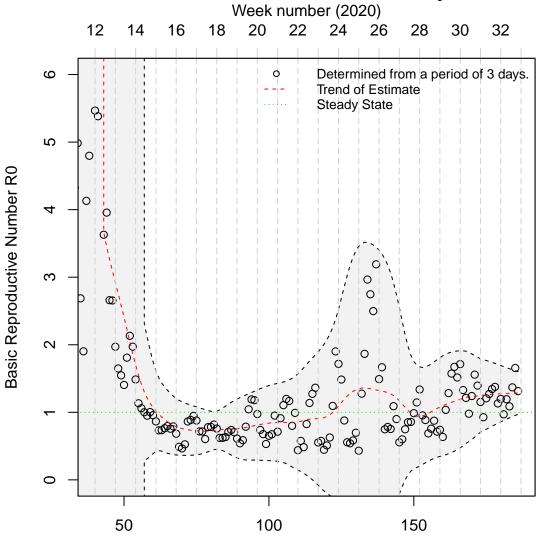


Days after 1/22/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

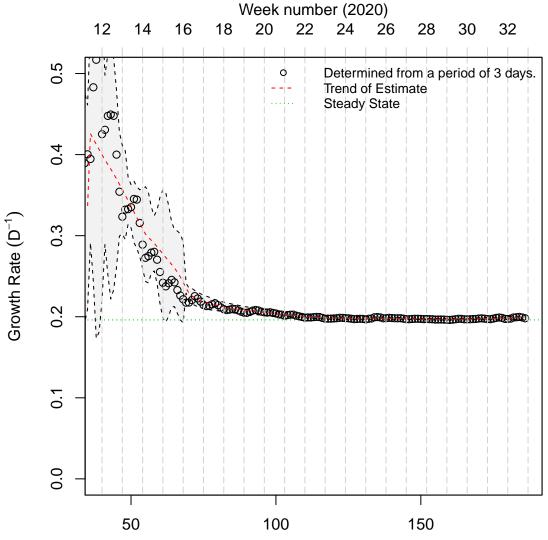


Days after 1/22/20

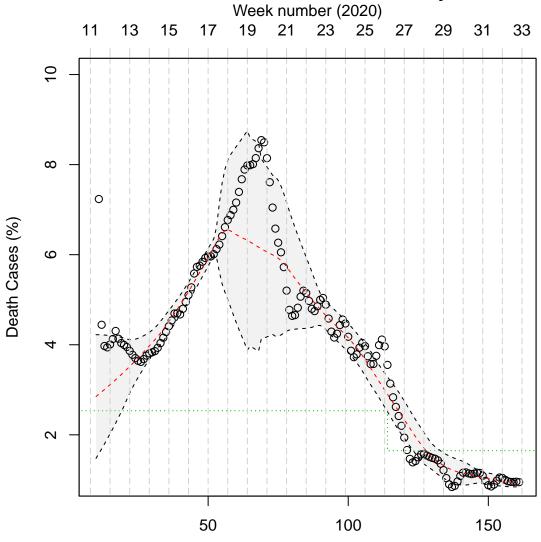
Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de



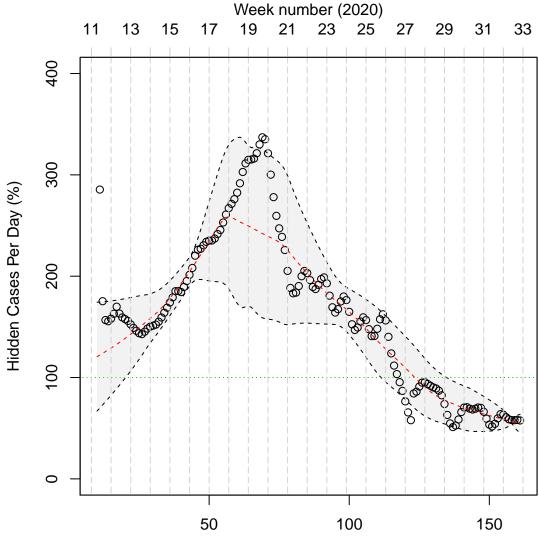
Days after 2/5/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de



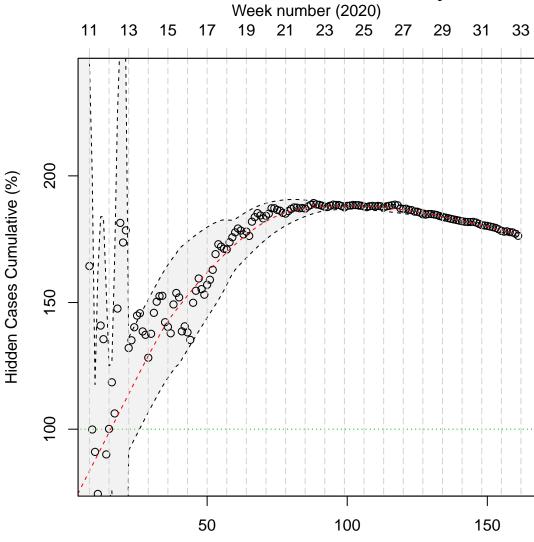
Days after 2/5/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de



Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

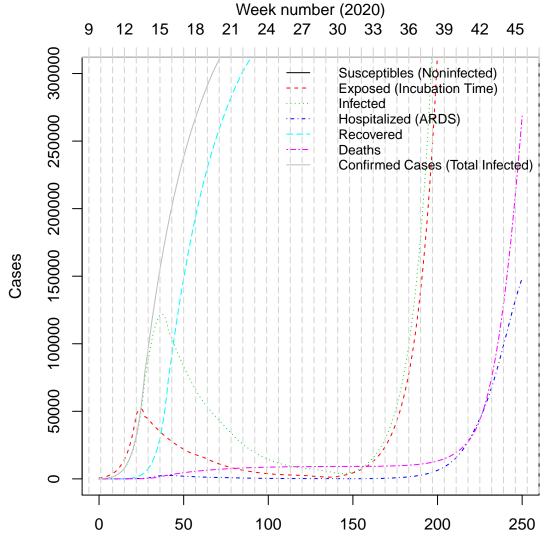


Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de



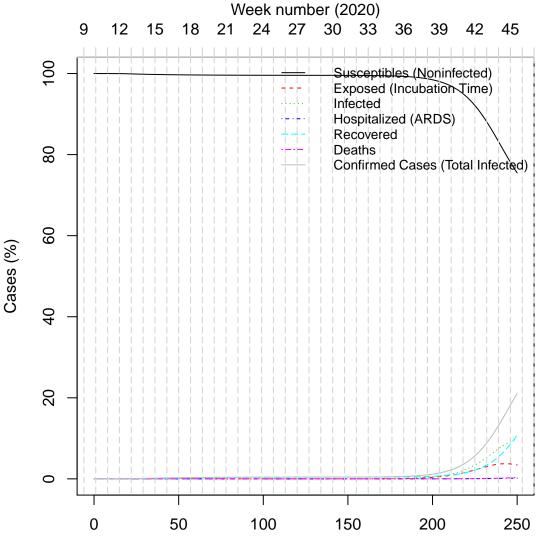
Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

Forecast COVID-19 in Germany



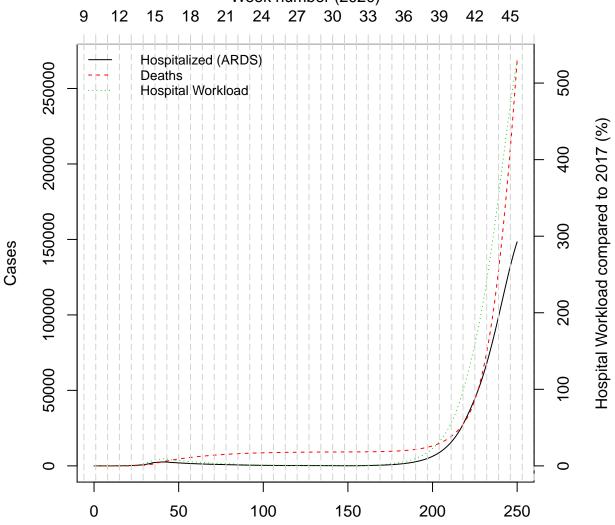
Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

Forecast COVID-19 in Germany



Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

Forecast COVID-19 in Germany Week number (2020)



Days after 3/1/20

Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

Forecast COVID-19 in Germany Week number (2020) 45 12 15 18 36 39 42 Hospitalized (ARDS) Deaths 500 0.30 Hospital Workload Hospital Workload compared to 2017 (%) 0.25 0.20 300 Cases (%) 0.15 0.10 0.05 0.00

Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

150

200

100

0

50

Scenario 1 no social distancing and no lockdown 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 (08/11/2020). Email: soeren.thiering@hs-anhalt.de

150

200

250

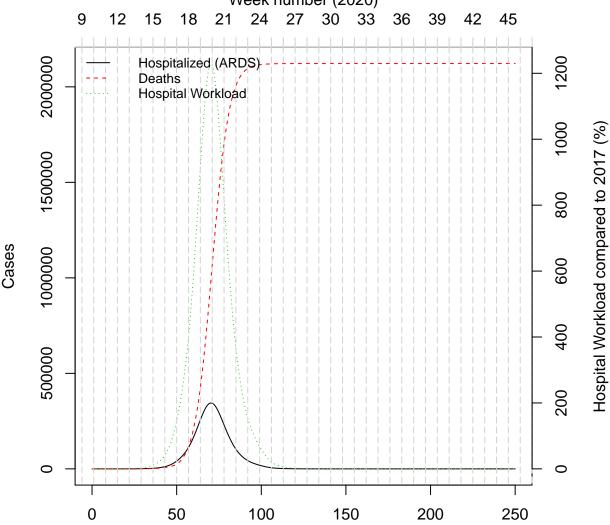
100

0

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 (08/11/2020). Email: soeren.thiering@hs-anhalt.de

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



Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 1 no social distancing and no lockdown Week number (2020) 45 12 15 18 36 1200 Hospitalized (ARDS) Deaths Hospital Workload Hospital Workload compared to 2017 (%) 800 ι Cases (%) 900 0.5 0.0

Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

150

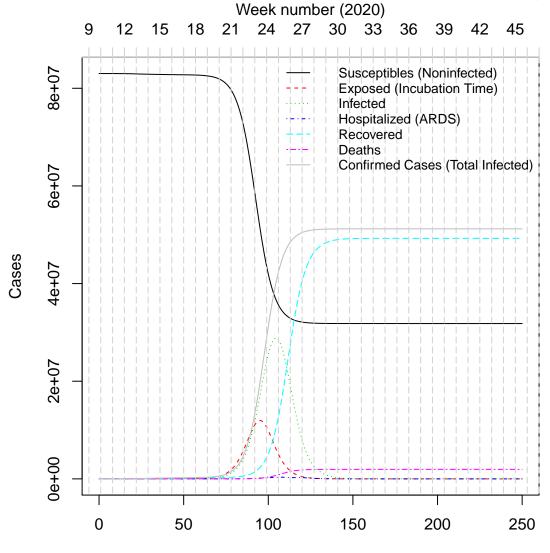
200

250

100

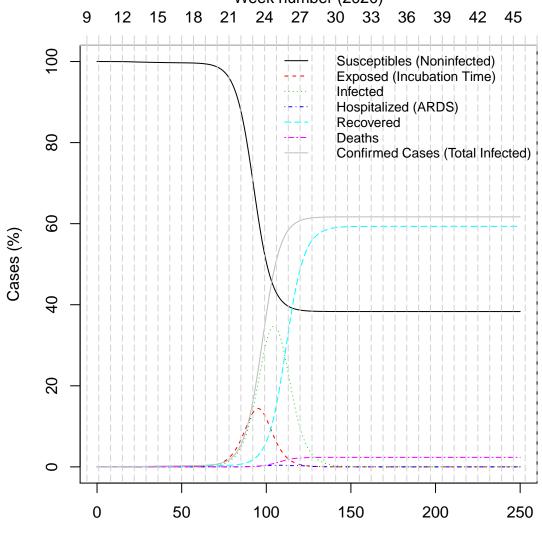
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Scenario 2 exit after day 50 without social distancing



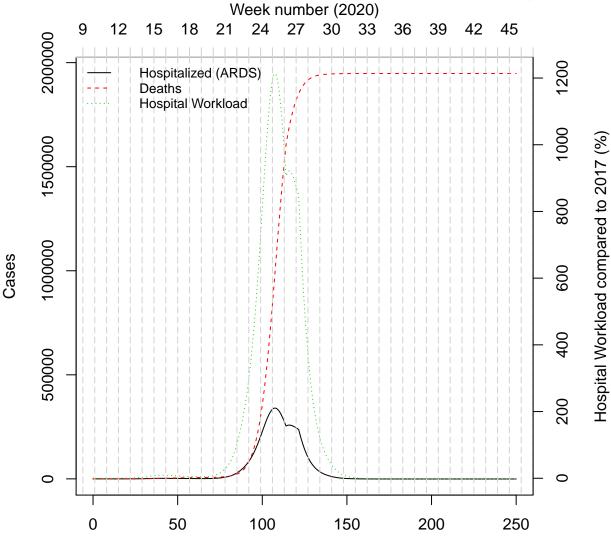
Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 2 exit after day 50 without social distancing Week number (2020)



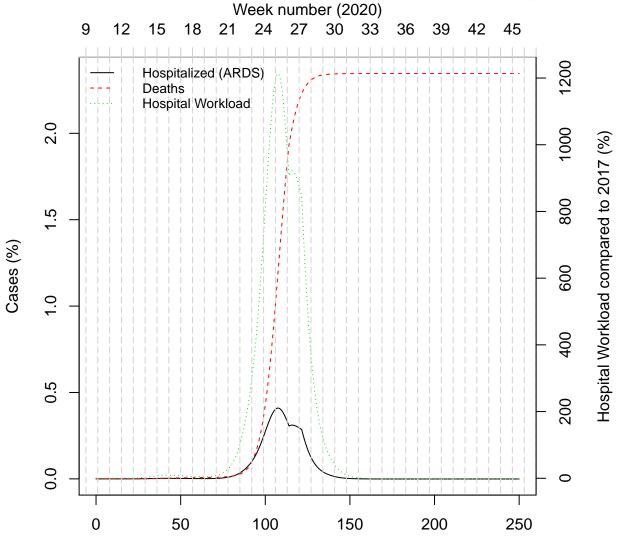
Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

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 (08/11/2020). 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 (08/11/2020). 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 (08/11/2020). 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 (%) Cases

Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

Scenario 3 exit after day 50 with social distancing Week number (2020) 45 12 15 18 36 39 1200 Hospitalized (ARDS) Deaths Hospital Workload 1000 Hospital Workload compared to 2017 (%) 1.5 800 Cases (%) 009 400 0.5 200 0.0

Days after 3/1/20 Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

150

200

250

100

0

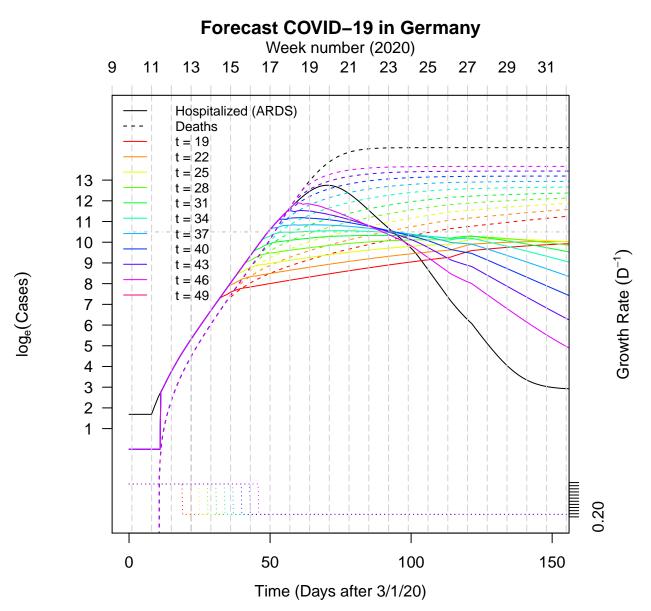
Forecast COVID-19 in Germany Week number (2020) 9 11 13 15 17 19 25 27 29 31 2200000 Hospitalized (ARDS) Deaths 2000000 R0 = 0.4R0 = 0.61800000 R0 = 0.8R0 = 11600000 R0 = 1.2R0 = 1.41400000 R0 = 1.6R0 = 1.81200000 Growth Rate (D^{-1}) R0 = 2R0 = 2.21000000 Cases R0 = 2.4800000 600000 400000 200000 0 0.32 0 50 100 150 Time (Days after 3/1/20)

Created by Sören Thiering (08/11/2020). Email: soeren.thiering@hs-anhalt.de

Forecast COVID-19 in Germany Week number (2020) 9 31 11 13 15 17 19 25 27 29 2200000 Hospitalized (ARDS) Deaths 2000000 t = 19t = 221800000 t = 25t = 281600000 t = 31 t = 341400000 t = 37t = 401200000 Growth Rate (D^{-1}) t = 43t = 461000000 Cases t = 49800000 600000 400000 200000 0 0.20 150 0 50 100

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Time (Days after 3/1/20)



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