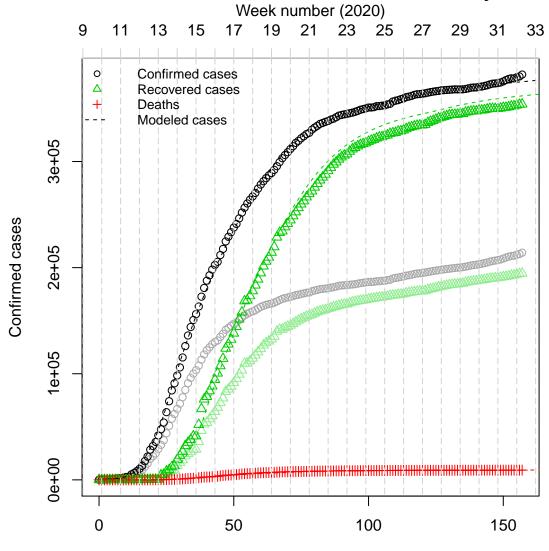
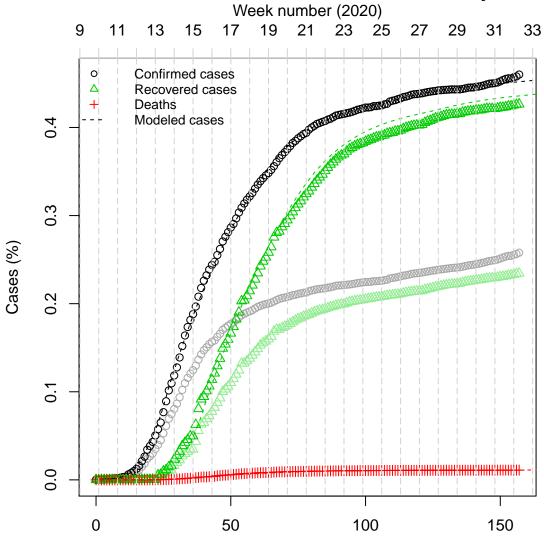
# Situation vs Model COVID-19 in Germany

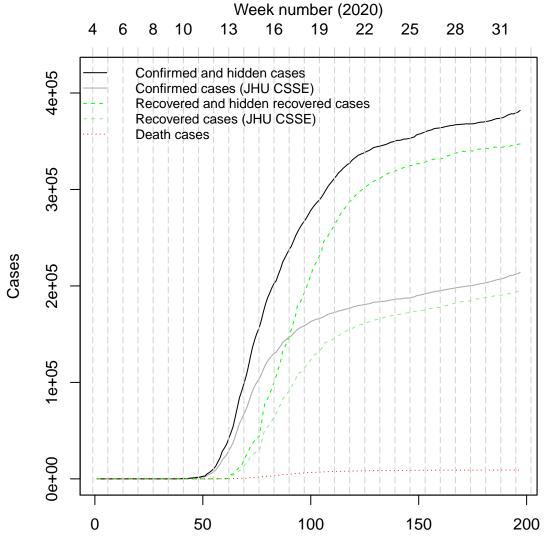


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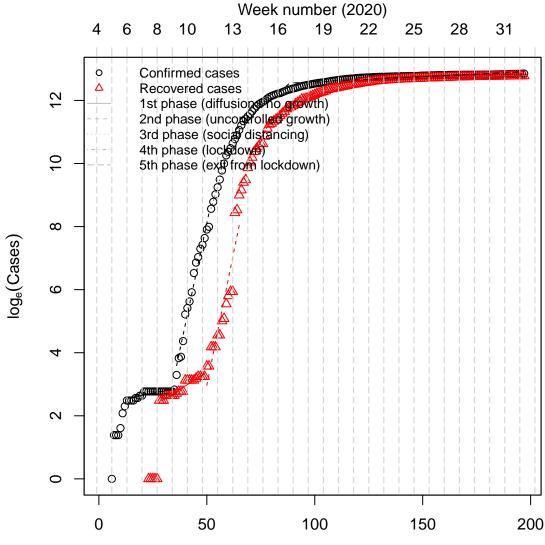
# Situation vs Model COVID-19 in Germany



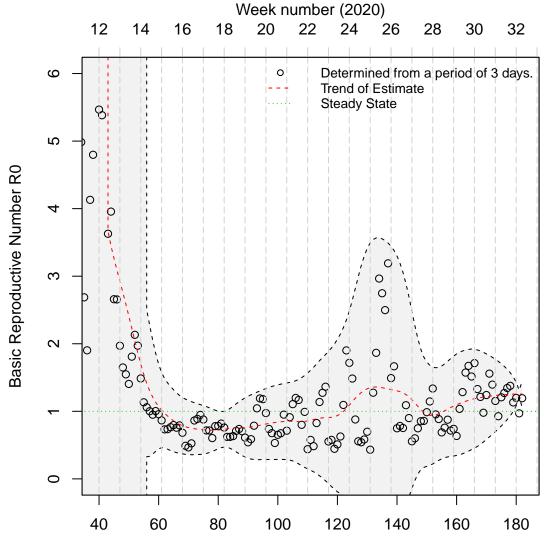
Days after 3/1/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de



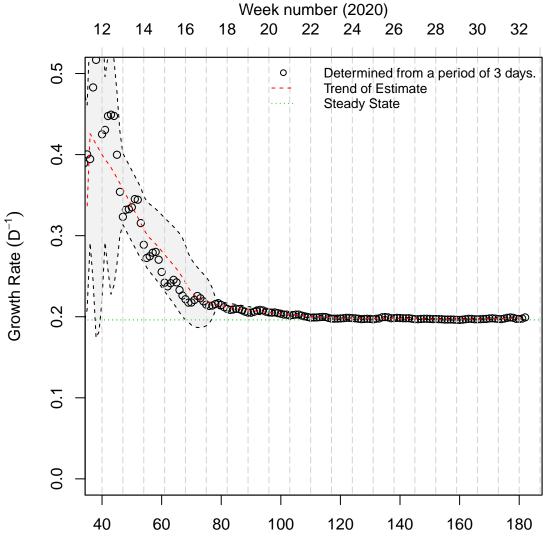
Days after 1/22/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de



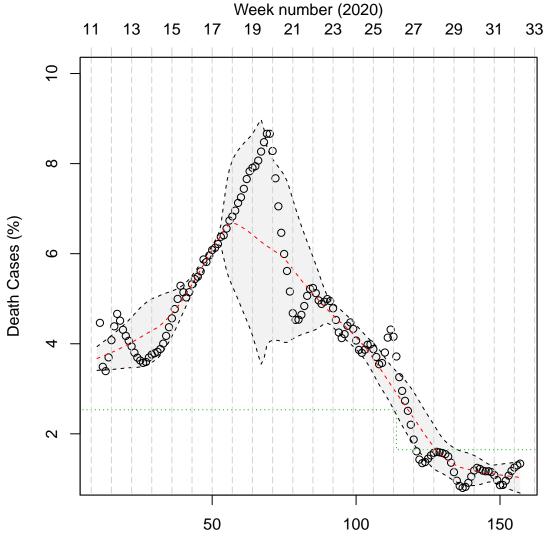
Days after 1/22/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de



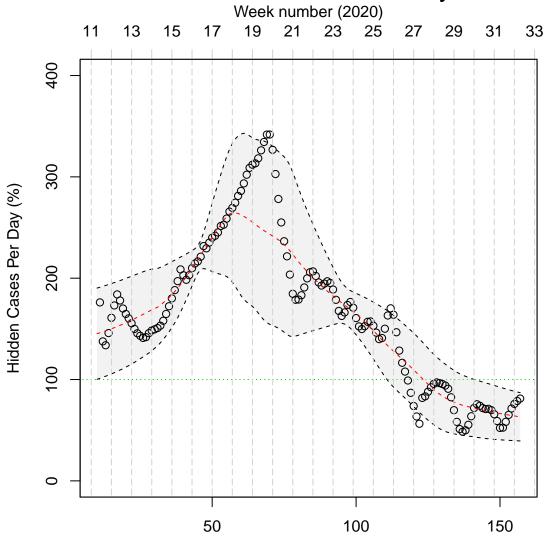
Days after 2/5/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de



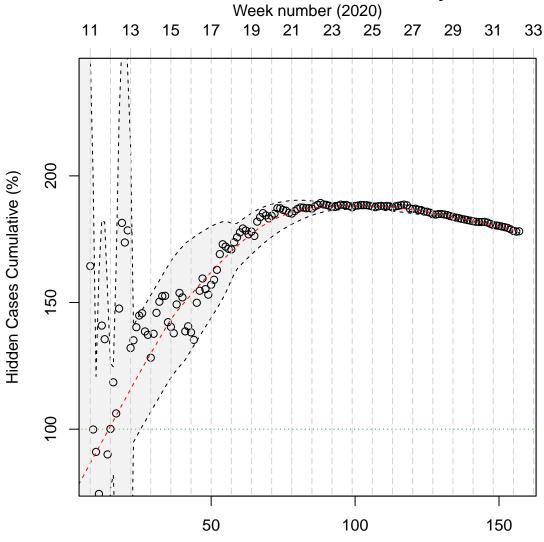
Days after 2/5/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de



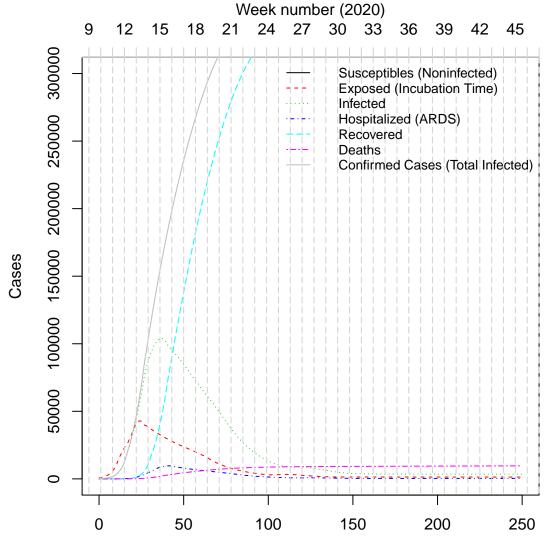
Days after 3/1/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de



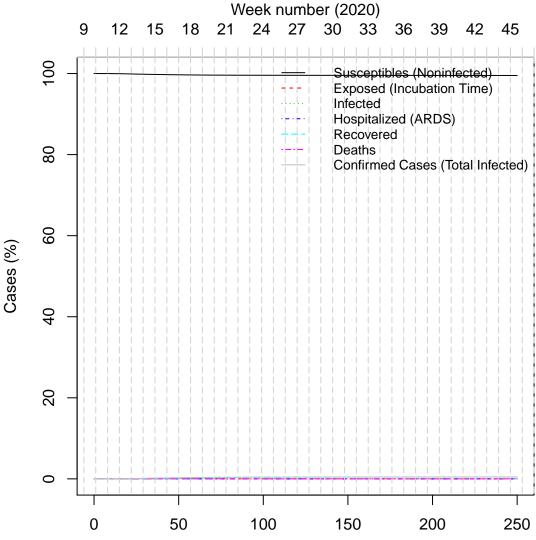
Days after 3/1/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de



Days after 3/1/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de

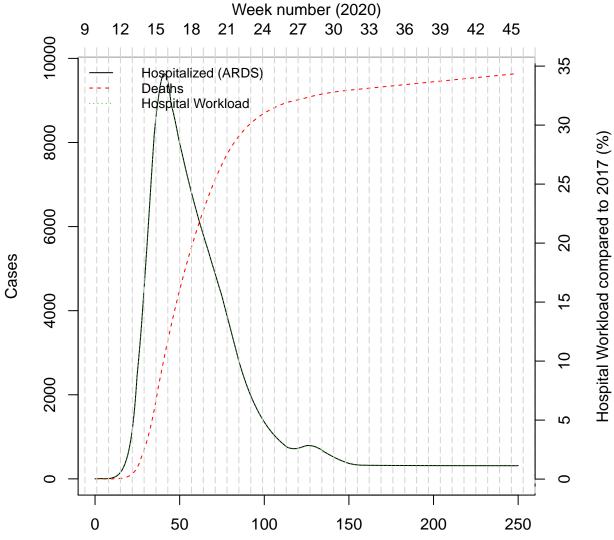


Days after 3/1/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de

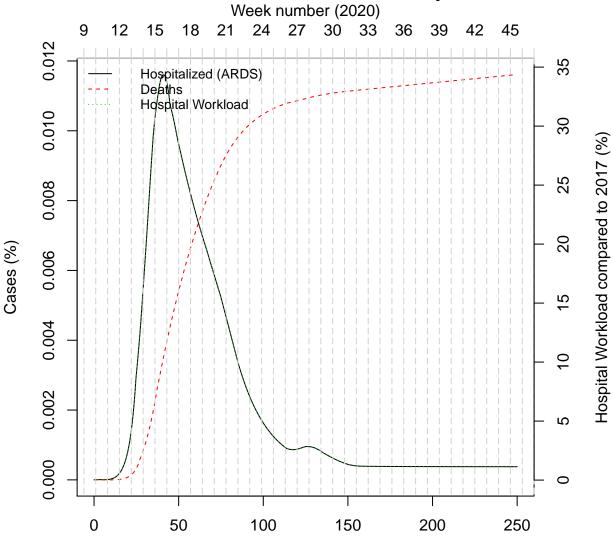


Days after 3/1/20

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# 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+<del>0</del>0

Days after 3/1/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de

150

200

250

100

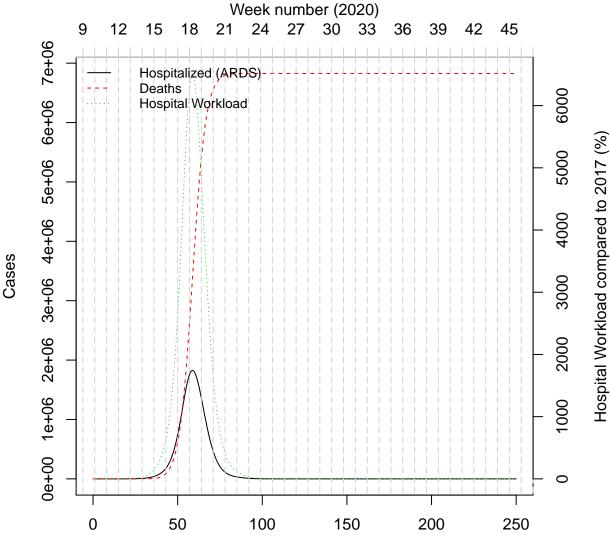
0

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 (08/06/2020). Email: soeren.thiering@hs-anhalt.de

# Scenario 1 no social distancing and no lockdown

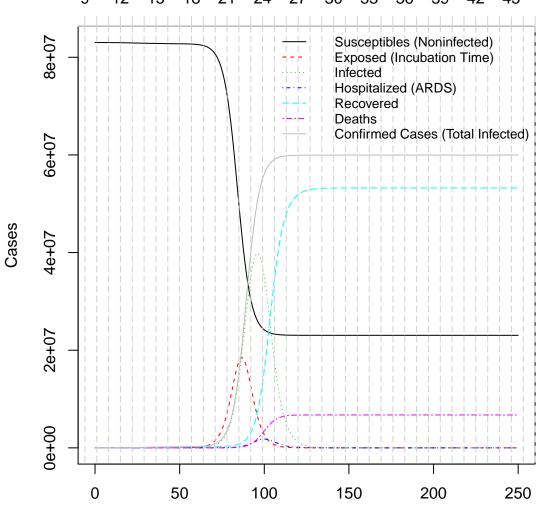


Days after 3/1/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de

# Scenario 1 no social distancing and no lockdown Week number (2020) 12 15 18 36 45 Hospitalized (ARDS) $\infty$ Deaths 0009 Hospital Workload Hospital Workload compared to 2017 (%) 9 Cases (%) 3000 $\alpha$ 50 100 150 200 250 0

Days after 3/1/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de

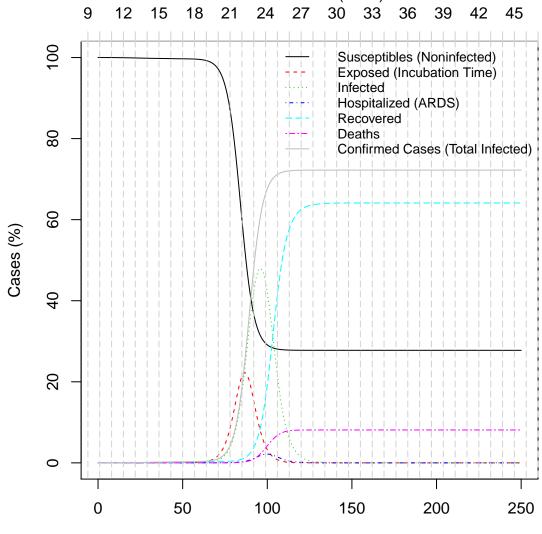
# Scenario 2 exit after day 50 without social distancing Week number (2020) 9 12 15 18 21 24 27 30 33 36 39 42 45



Days after 3/1/20

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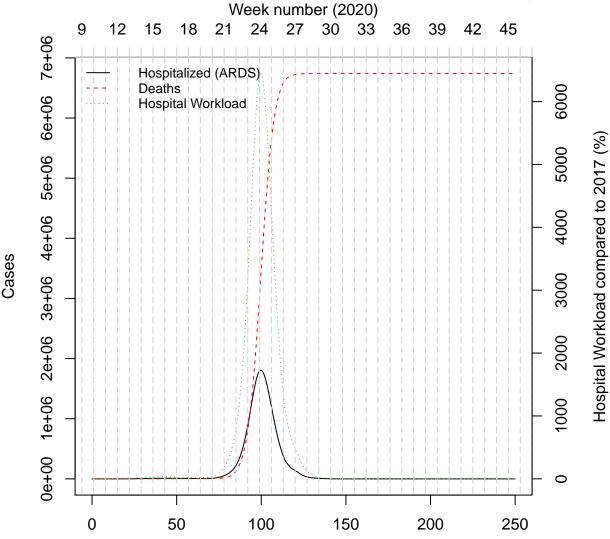
# Scenario 2 exit after day 50 without social distancing Week number (2020)



Days after 3/1/20

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# Scenario 2 exit after day 50 without social distancing



Days after 3/1/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de

# Scenario 2 exit after day 50 without social distancing Week number (2020) Hospitalized (ARDS) $\infty$ Deaths Hospital Workload Hospital Workload compared to 2017 (%) Cases (%) $\alpha$

Days after 3/1/20 Created by Sören Thiering (08/06/2020). 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+<del>0</del>0

Days after 3/1/20 Created by Sören Thiering (08/06/2020). 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 (08/06/2020). 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 (08/06/2020). Email: soeren.thiering@hs-anhalt.de

# Scenario 3 exit after day 50 with social distancing Week number (2020) 12 24 45 15 18 36 39 2.5 Hospitalized (ARDS) Deaths Hospital Workload Hospital Workload compared to 2017 (%) 2.0 1.5 Cases (%) 1.0 0.5 0.0

Days after 3/1/20 Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de

150

200

100

0

50

250

#### Forecast COVID-19 in Germany Week number (2020) 9 11 13 15 17 25 27 29 31 7000000 Hospitalized (ARDS) 6500000 Deaths R0 = 0.46000000 R0 = 0.6R0 = 0.85500000 R0 = 15000000 R0 = 1.2R0 = 1.44500000 R0 = 1.6R0 = 1.84000000 Growth Rate $(\mathsf{D}^{-1})$ R0 = 23500000 R0 = 2.2R0 = 2.43000000 2500000 2000000 1500000 1000000 500000 0 0.32 0 50 100 150

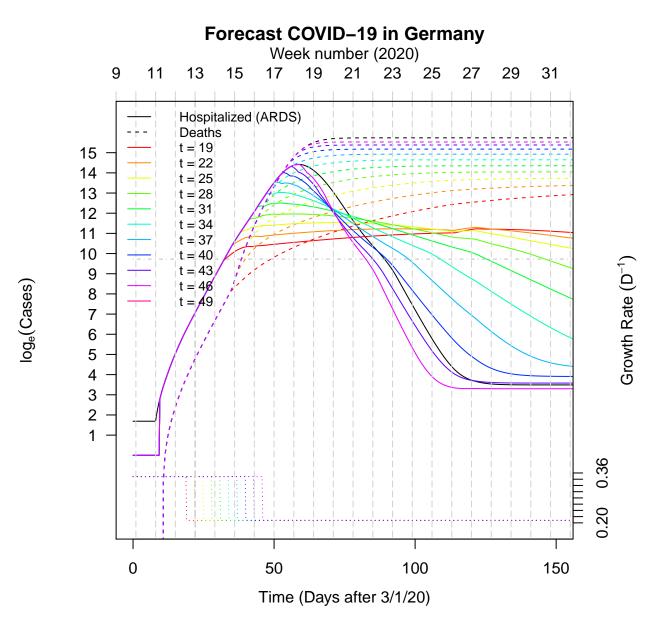
Created by Sören Thiering (08/06/2020). Email: soeren.thiering@hs-anhalt.de

Time (Days after 3/1/20)

#### Forecast COVID-19 in Germany Week number (2020) 9 11 13 15 17 25 27 29 31 7000000 Hospitalized (ARDS) 6500000 Deaths t = 196000000 t = 22 t = 255500000 t = 285000000 t = 31 t = 344500000 t = 37t = 404000000 Growth Rate $(\mathsf{D}^{-1})$ t = 433500000 t = 46t = 49Cases 3000000 2500000 2000000 1500000 1000000 500000 0 0.36 0.20 0 50 100 150

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Time (Days after 3/1/20)



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