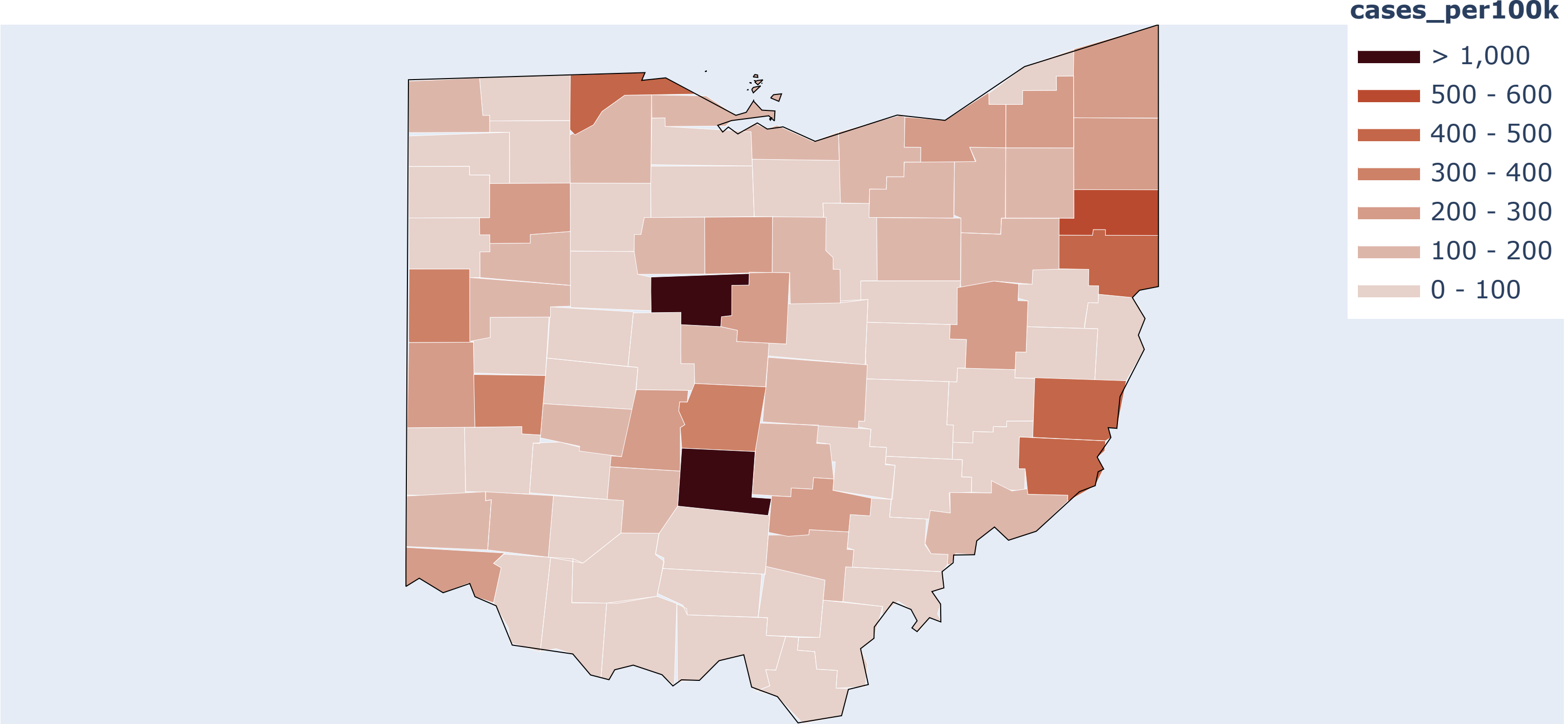
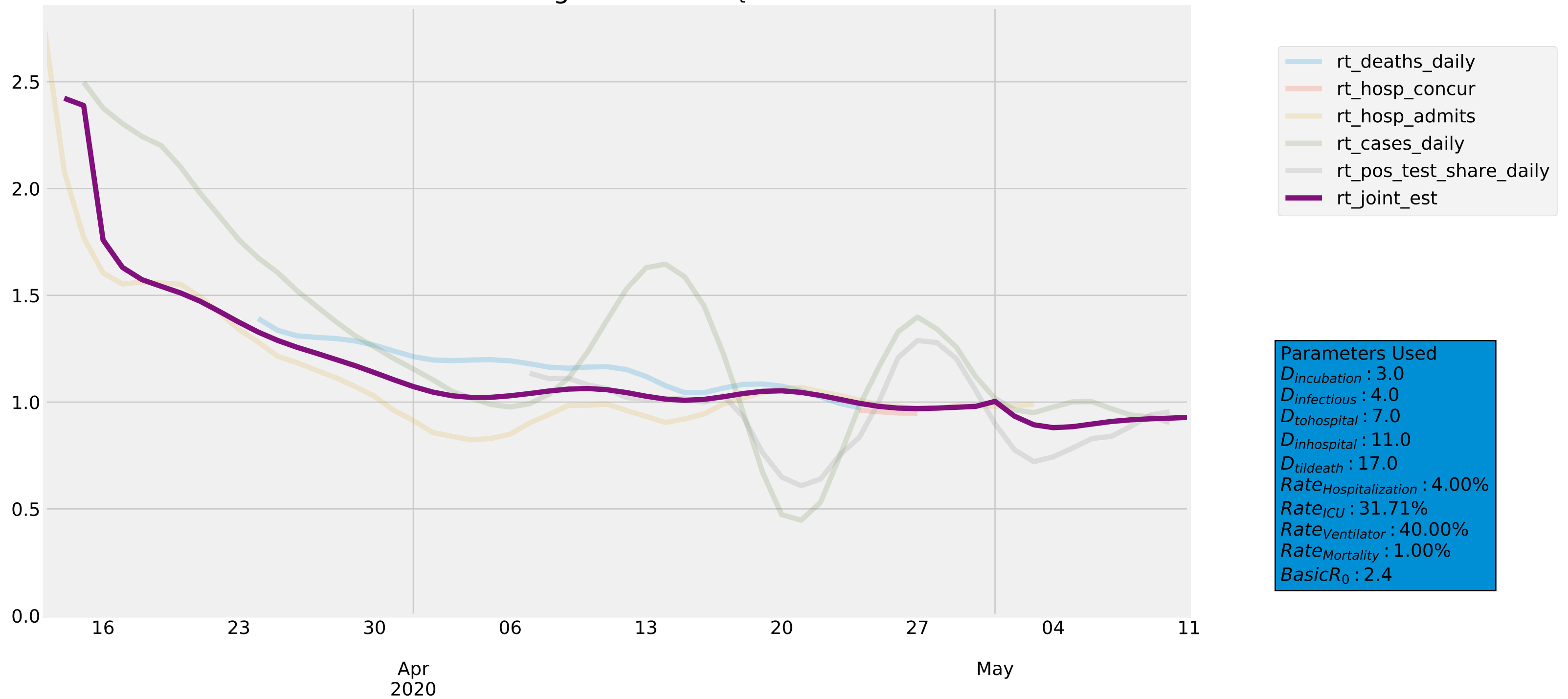


Ohio: COVID-19 Cases Per 100k Residents

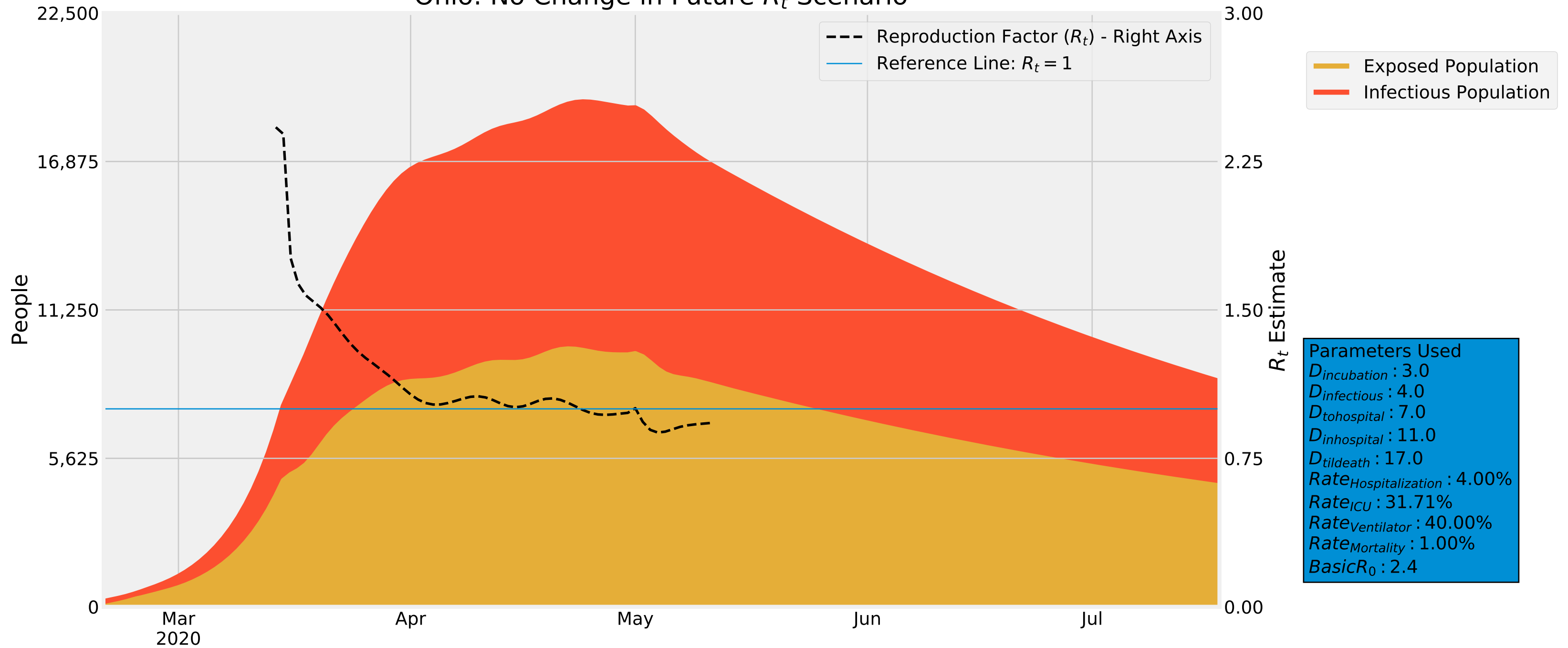


Reproduction Rate (R_t) Estimates Ohio: No Change in Future R_t Scenario



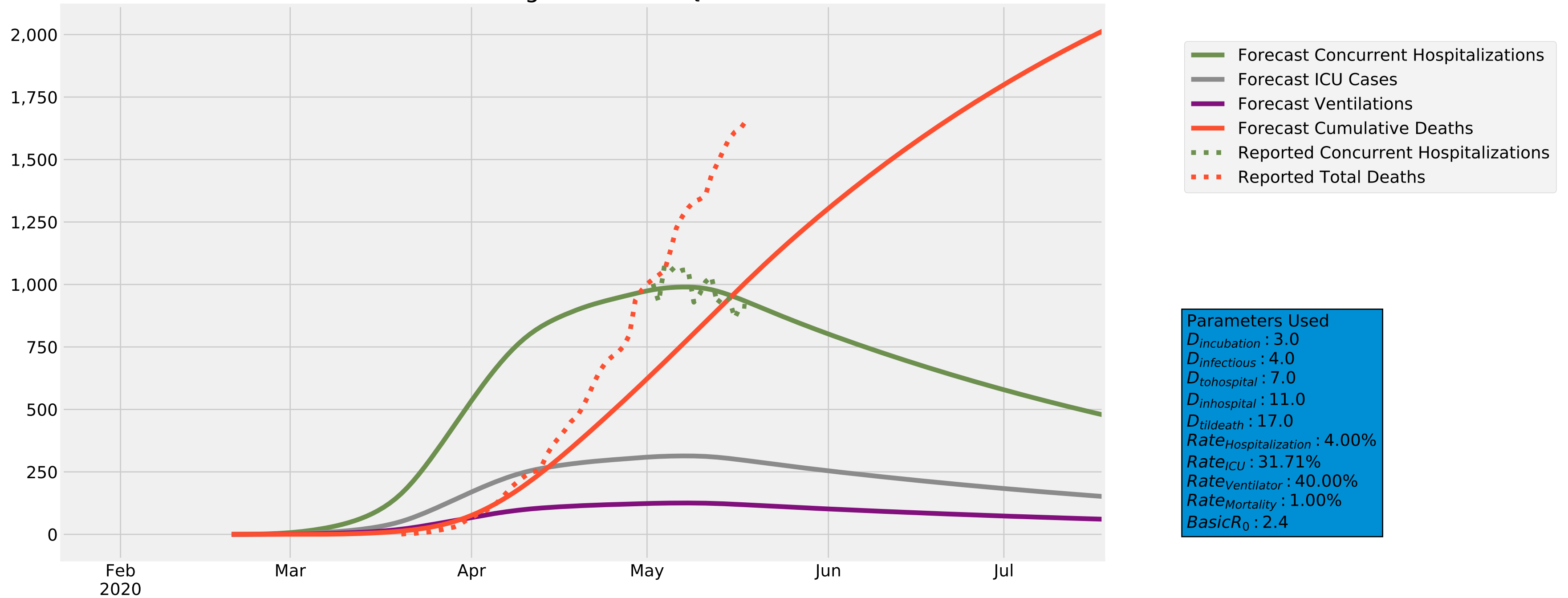
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Simultaneous Infections Forecast Ohio: No Change in Future R_t Scenario



Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

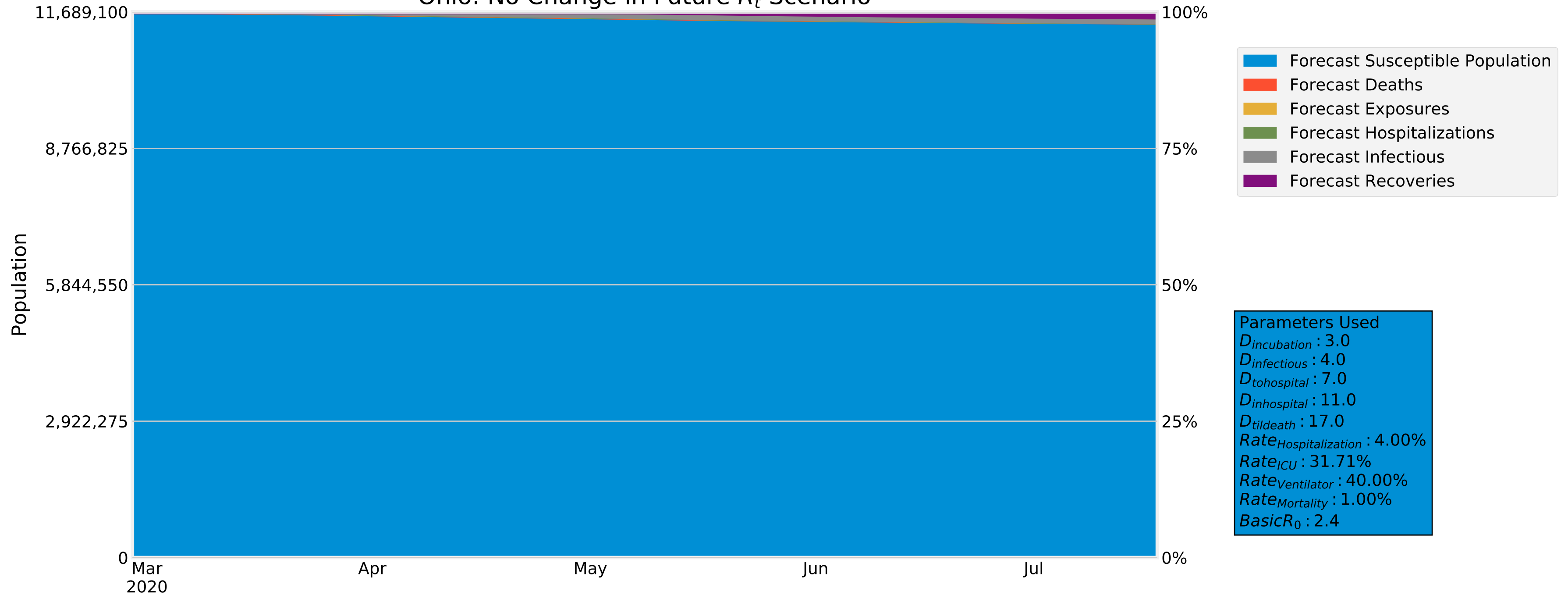
Hospitalization and Deaths Forecast Ohio: No Change in Future R_t Scenario



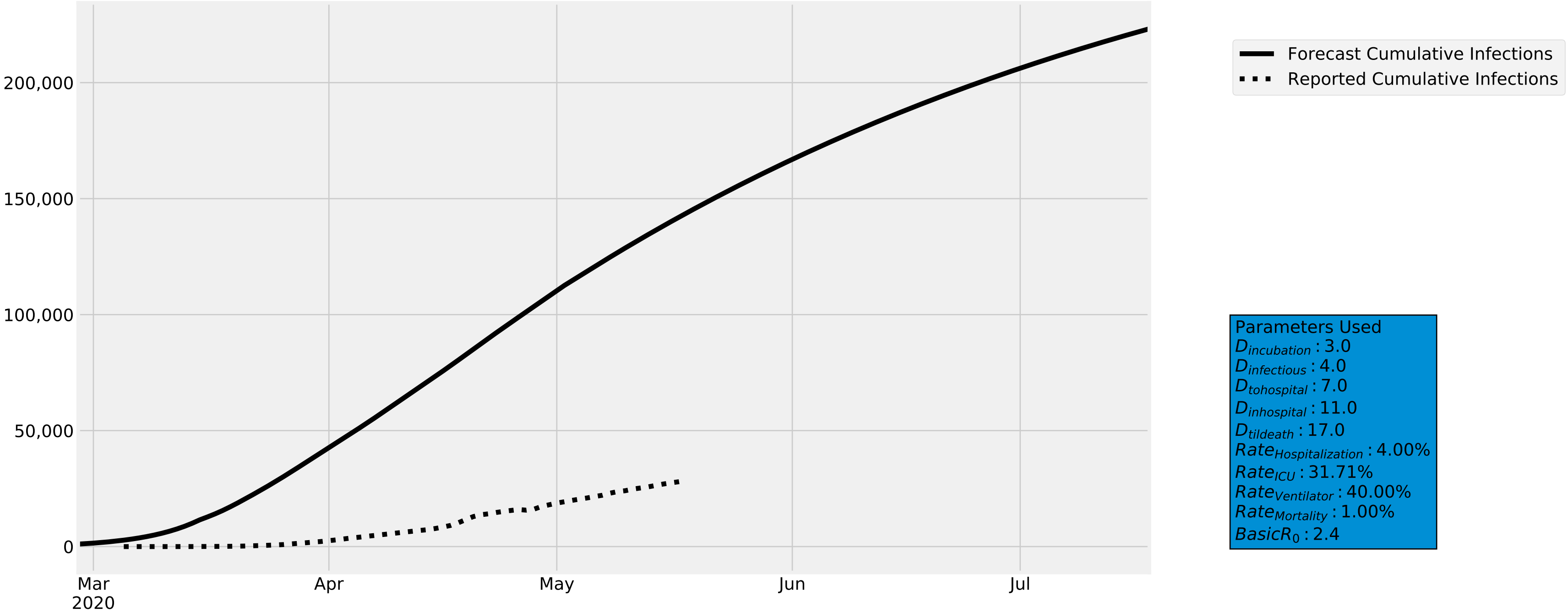
Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Population Overview Forecast

Ohio: No Change in Future R_t Scenario



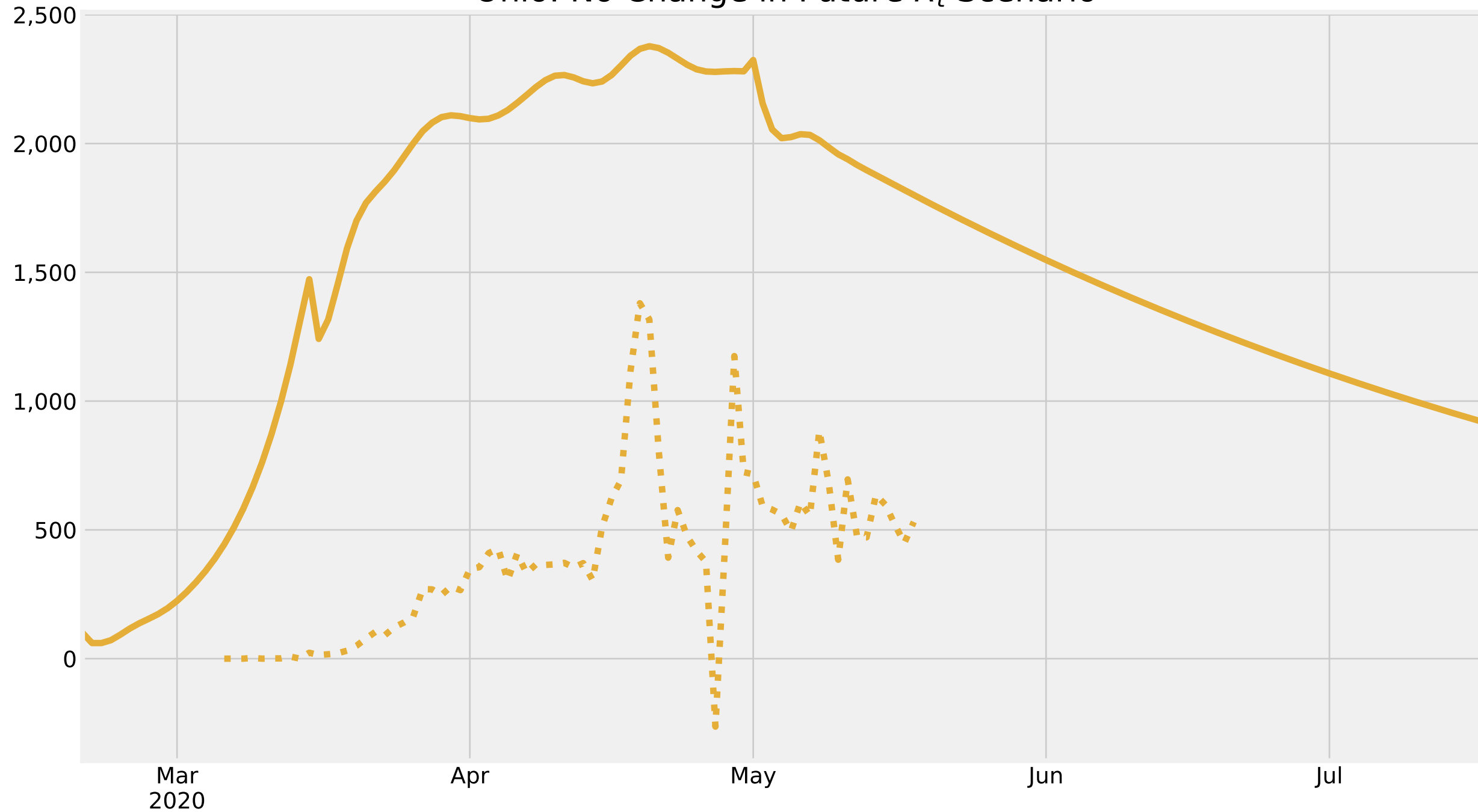
Cumulative Infections Forecast
Ohio: No Change in Future R_t Scenario



Parameters Used
 $D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 2.4

Daily Exposures Forecast

Ohio: No Change in Future R_t Scenario



Forecast Daily New Infections (Exposed)

Reported Daily New Infections (Exposed)

Parameters Used

$D_{incubation}$: 3.0

$D_{infectious}$: 4.0

$D_{tohospital}$: 7.0

$D_{inhospital}$: 11.0

$D_{tildeath}$: 17.0

$Rate_{Hospitalization}$: 4.00%

$Rate_{ICU}$: 31.71%

$Rate_{Ventilator}$: 40.00%

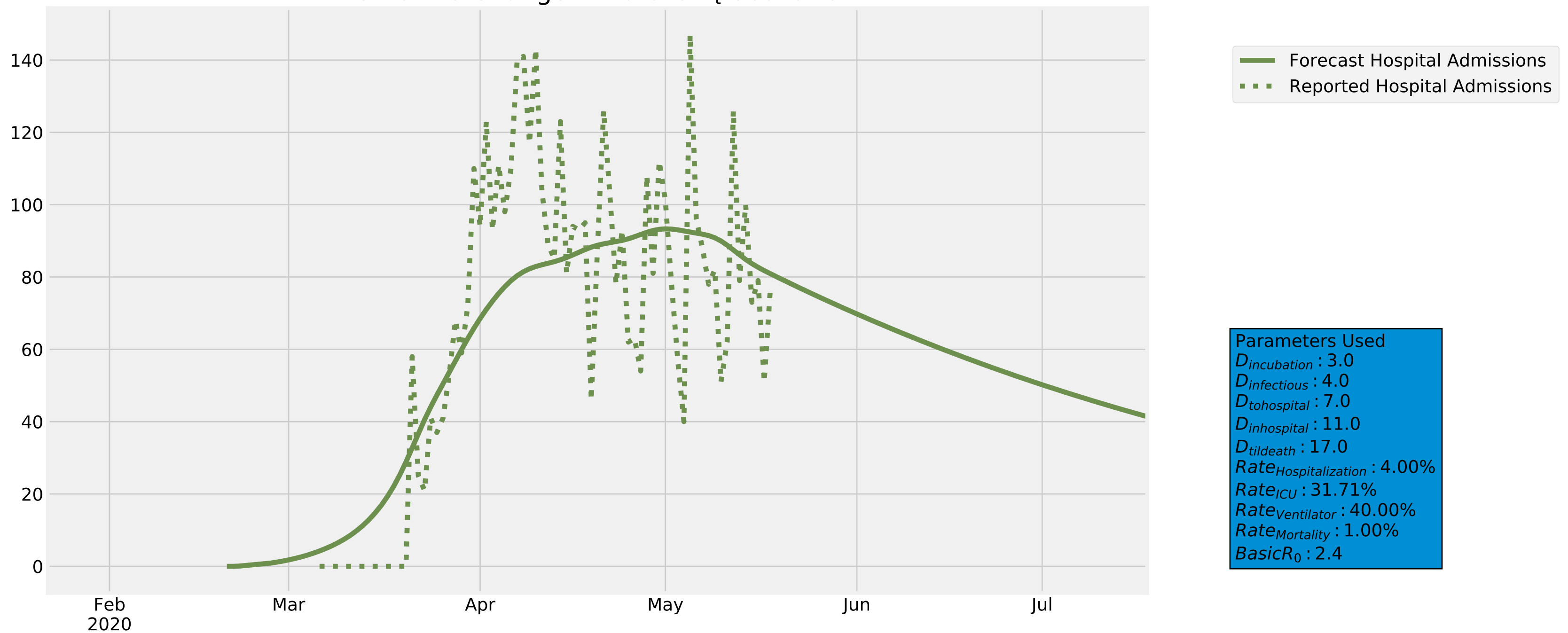
$Rate_{Mortality}$: 1.00%

$BasicR_0$: 2.4

Author: Michael Donnelly (twtr: @donnellymjd)

Chart created on 19 May 2020

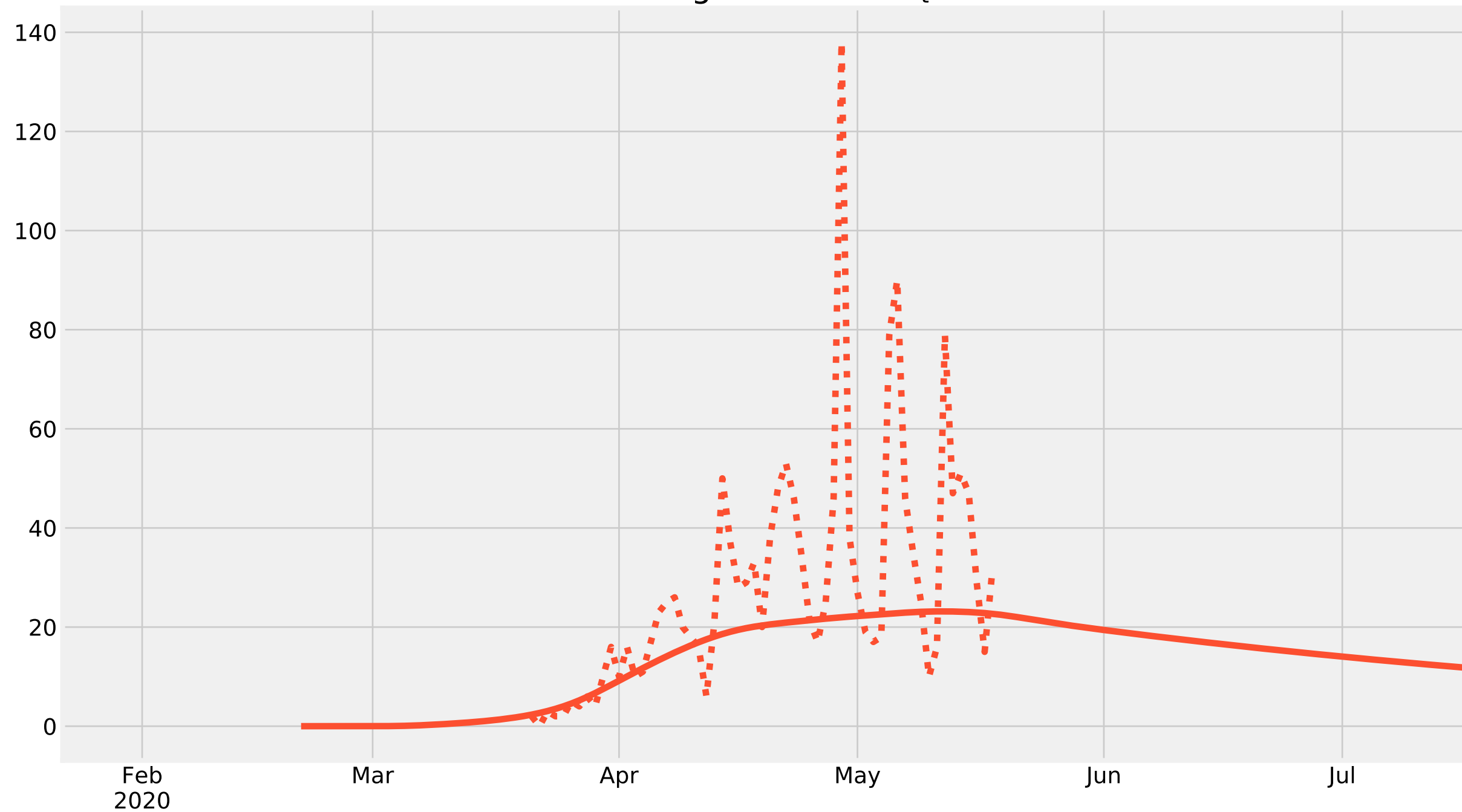
Daily Hospital Admissions Forecast Ohio: No Change in Future R_t Scenario



Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Daily Deaths Forecast

Ohio: No Change in Future R_t Scenario

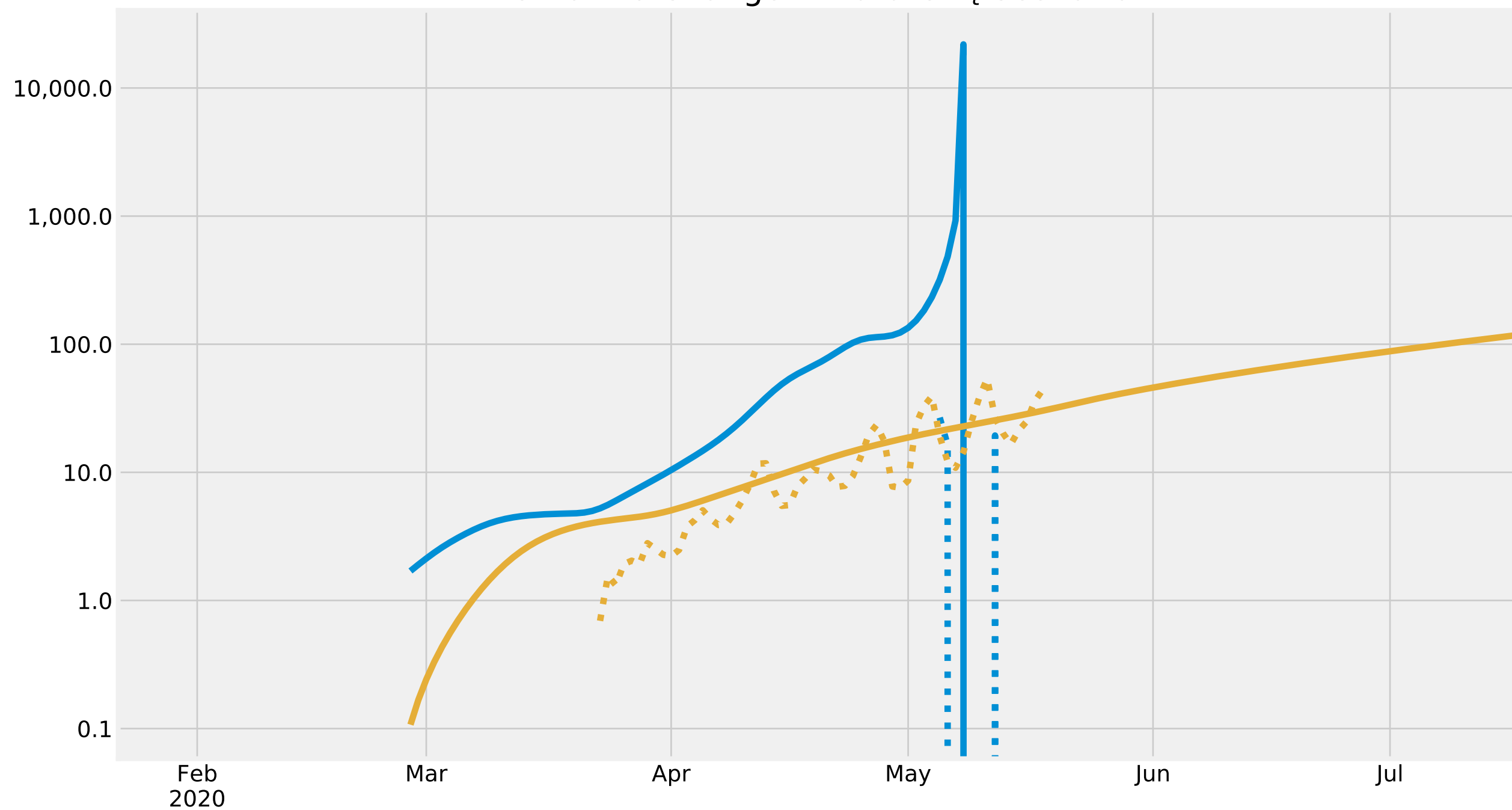


Forecast Daily Deaths
Reported Daily Deaths

Parameters Used
 $D_{incubation} : 3.0$
 $D_{infectious} : 4.0$
 $D_{tohospital} : 7.0$
 $D_{inhospital} : 11.0$
 $D_{tildeath} : 17.0$
 $Rate_{Hospitalization} : 4.00\%$
 $Rate_{ICU} : 31.71\%$
 $Rate_{Ventilator} : 40.00\%$
 $Rate_{Mortality} : 1.00\%$
 $BasicR_0 : 2.4$

Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020

Doubling Rate Forecast Ohio: No Change in Future R_t Scenario



- hospitalized
- deaths
- Reported Concurrent Hospitalizations
- Reported Total Deaths

Parameters Used
 $D_{incubation}$: 3.0
 $D_{infectious}$: 4.0
 $D_{tohospital}$: 7.0
 $D_{inhospital}$: 11.0
 $D_{tildeath}$: 17.0
 $Rate_{Hospitalization}$: 4.00%
 $Rate_{ICU}$: 31.71%
 $Rate_{Ventilator}$: 40.00%
 $Rate_{Mortality}$: 1.00%
 $BasicR_0$: 2.4

Author: Michael Donnelly (twtr: @donnellymjd)
Chart created on 19 May 2020