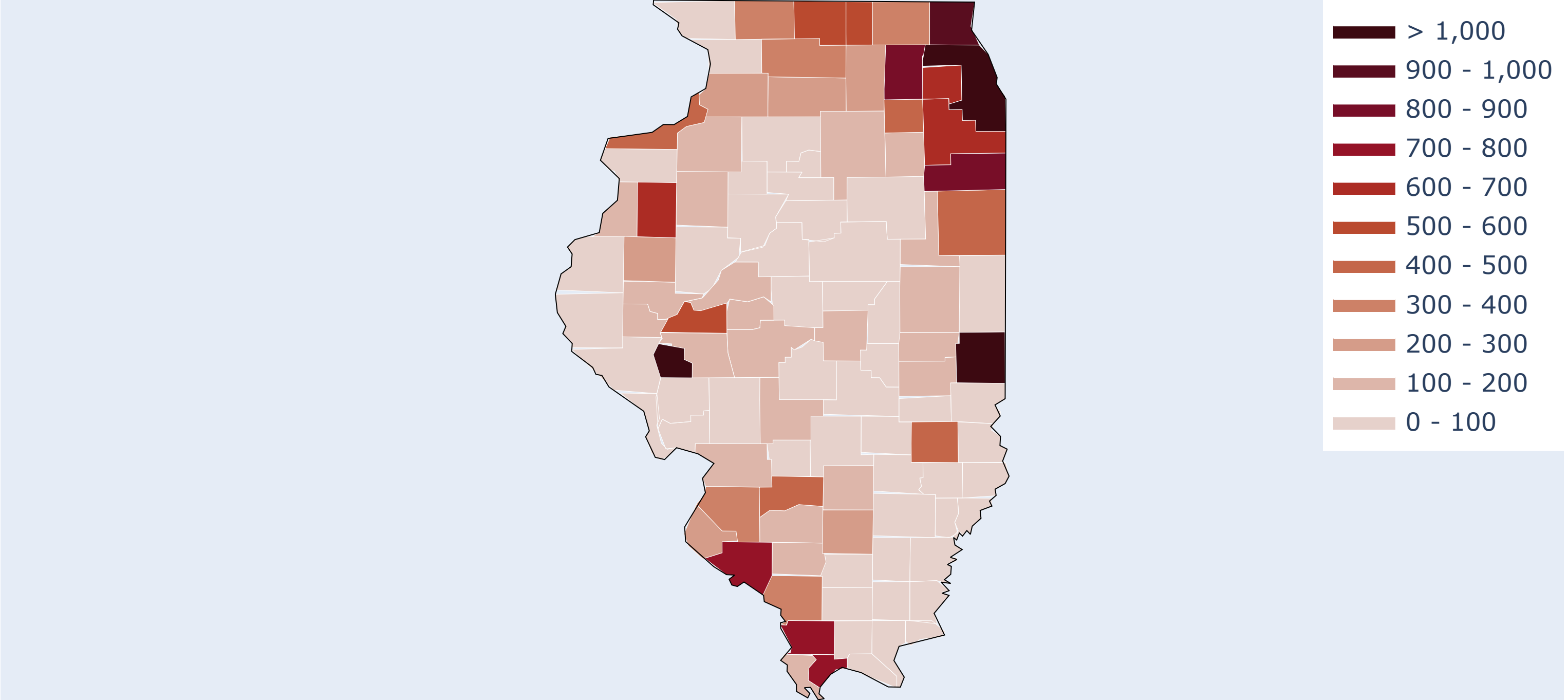
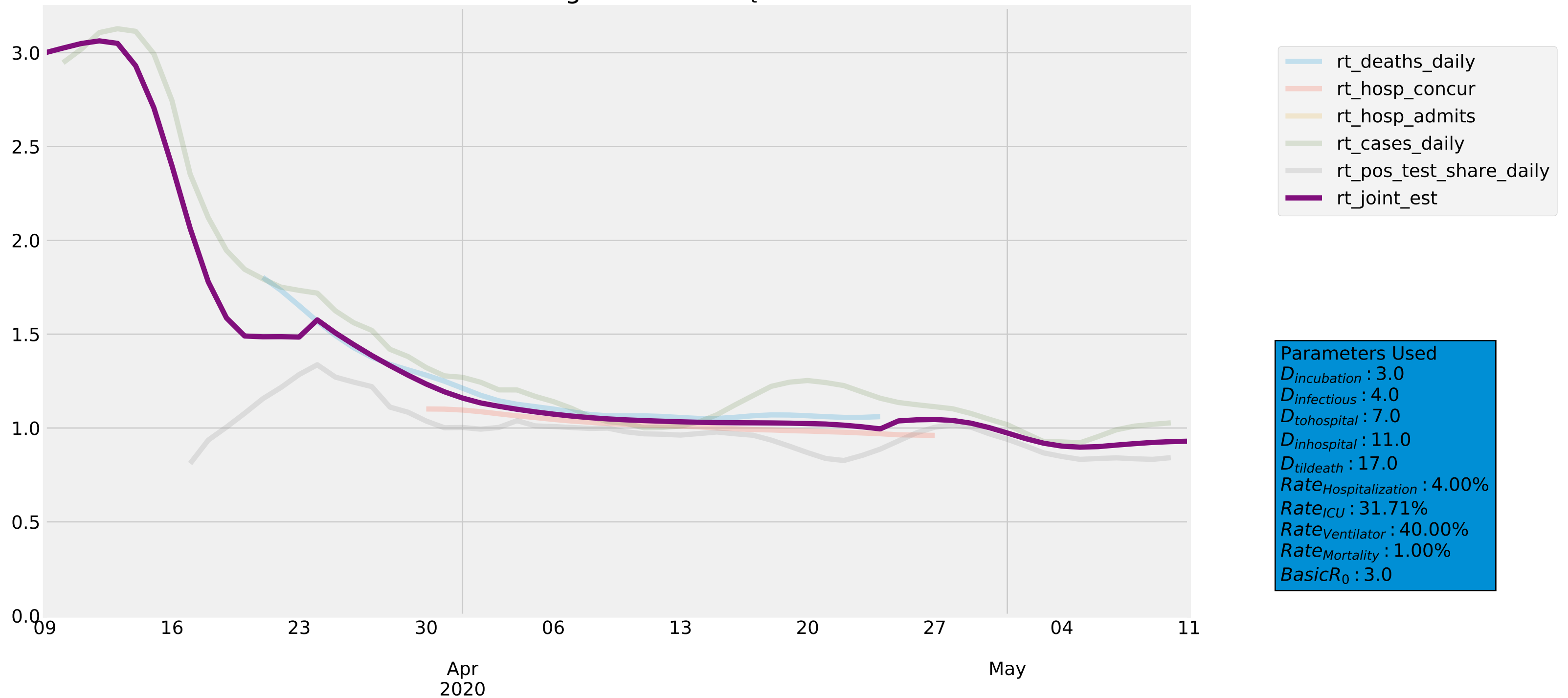


# Illinois: COVID-19 Cases Per 100k Residents

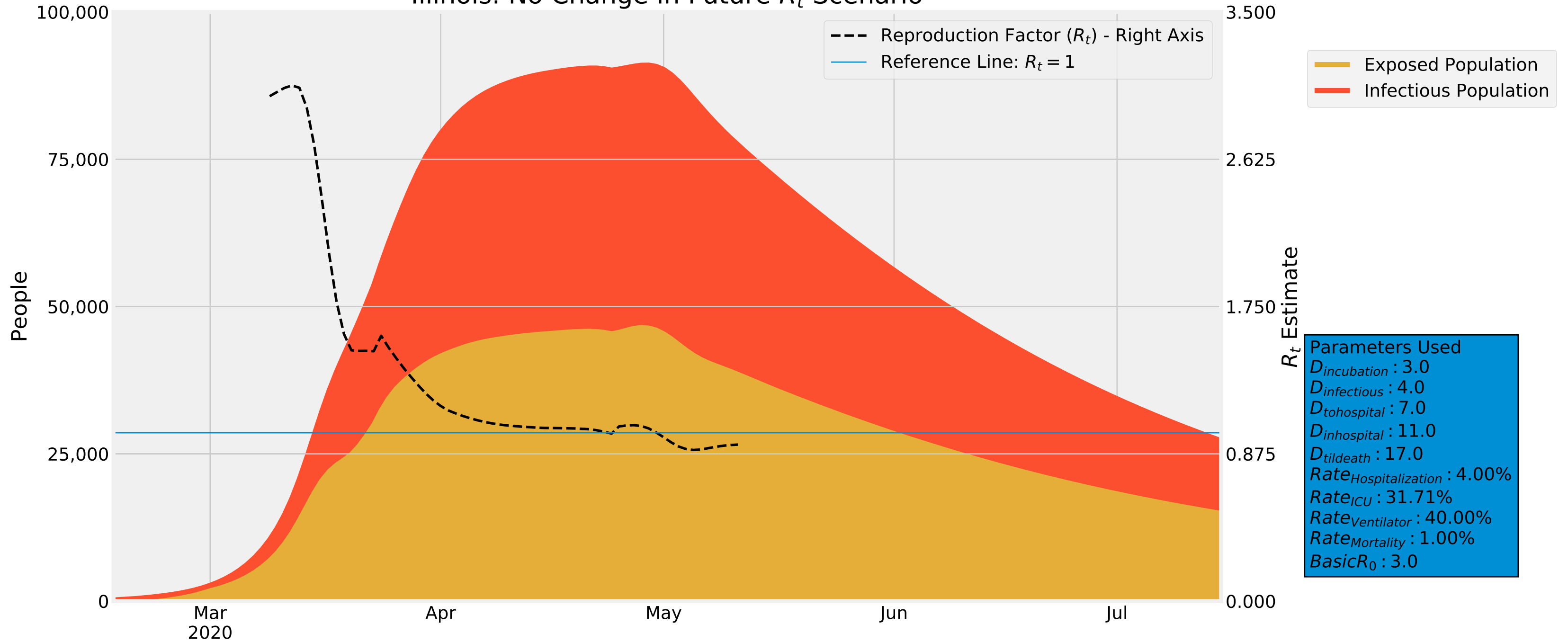


# Reproduction Rate ( $R_t$ ) Estimates Illinois: No Change in Future $R_t$ Scenario



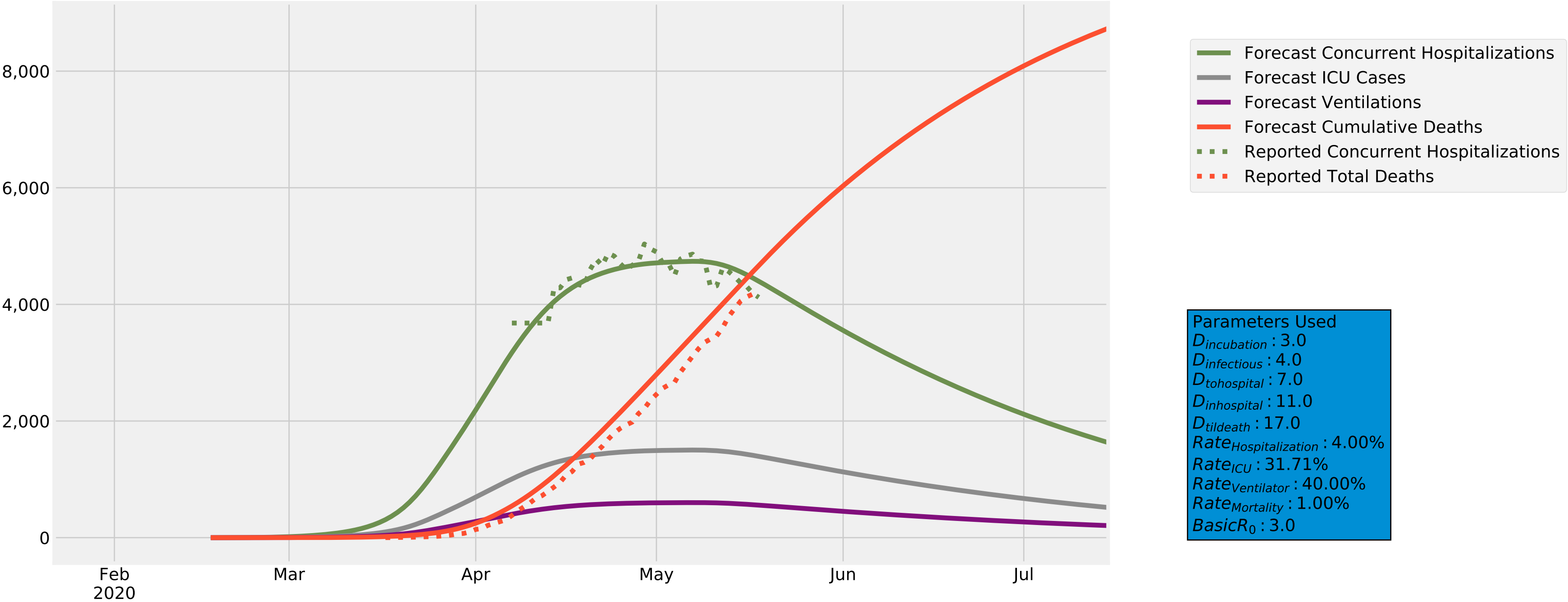
Author: Michael Donnelly (twtr: @donnellymjd)  
Chart created on 19 May 2020

# Simultaneous Infections Forecast Illinois: No Change in Future $R_t$ Scenario



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

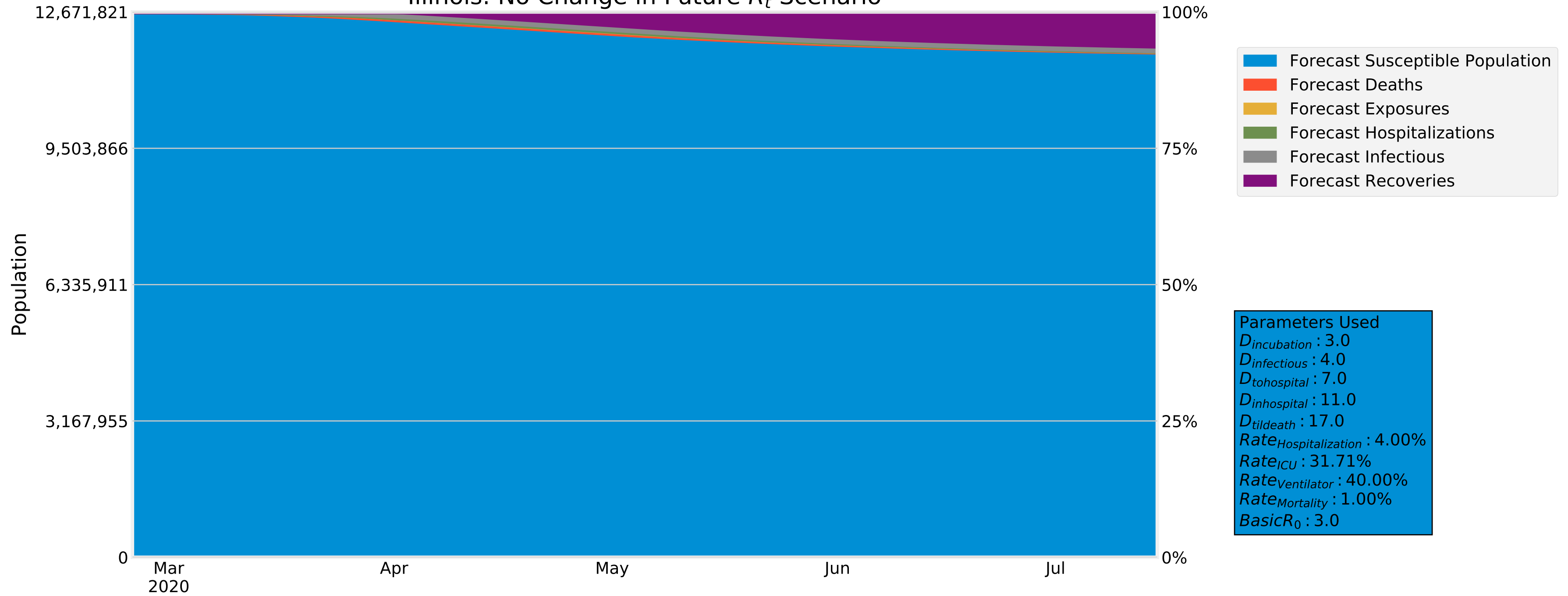
Hospitalization and Deaths Forecast  
Illinois: No Change in Future  $R_t$  Scenario



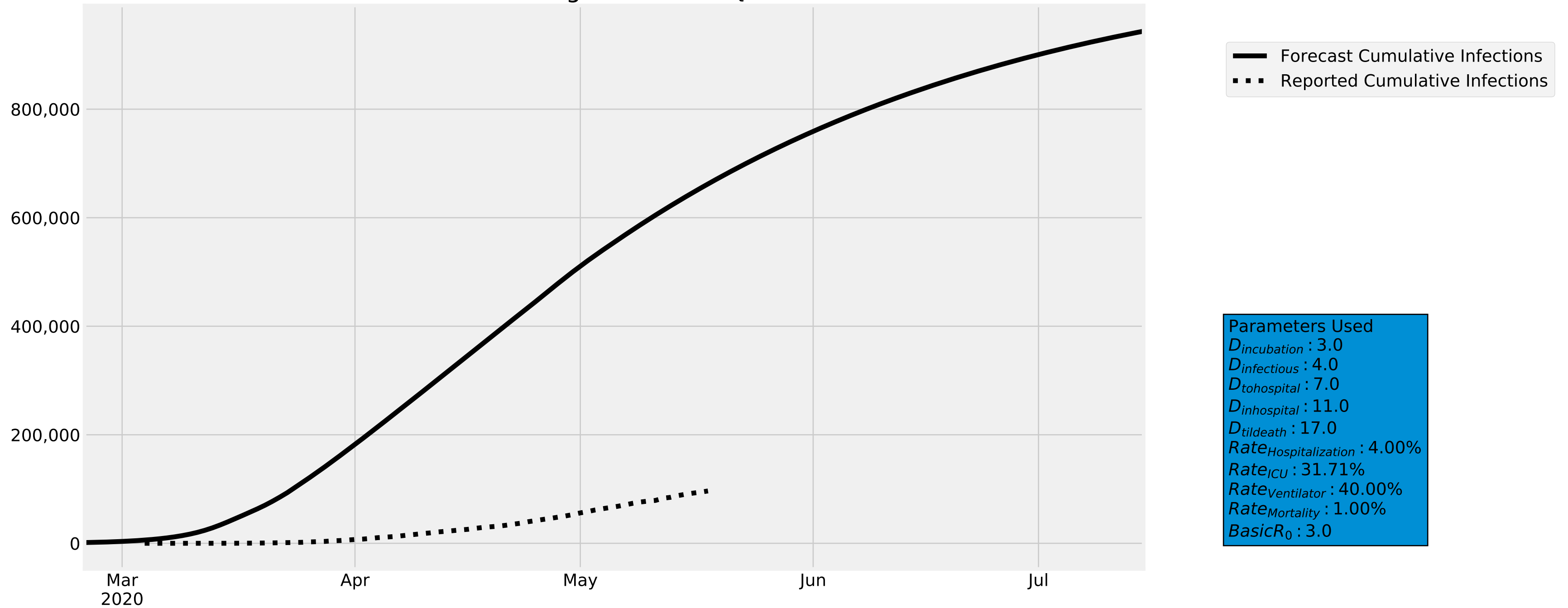
Author: Michael Donnelly (twtr: @donnellymjd)  
Chart created on 19 May 2020

# Population Overview Forecast

## Illinois: No Change in Future $R_t$ Scenario



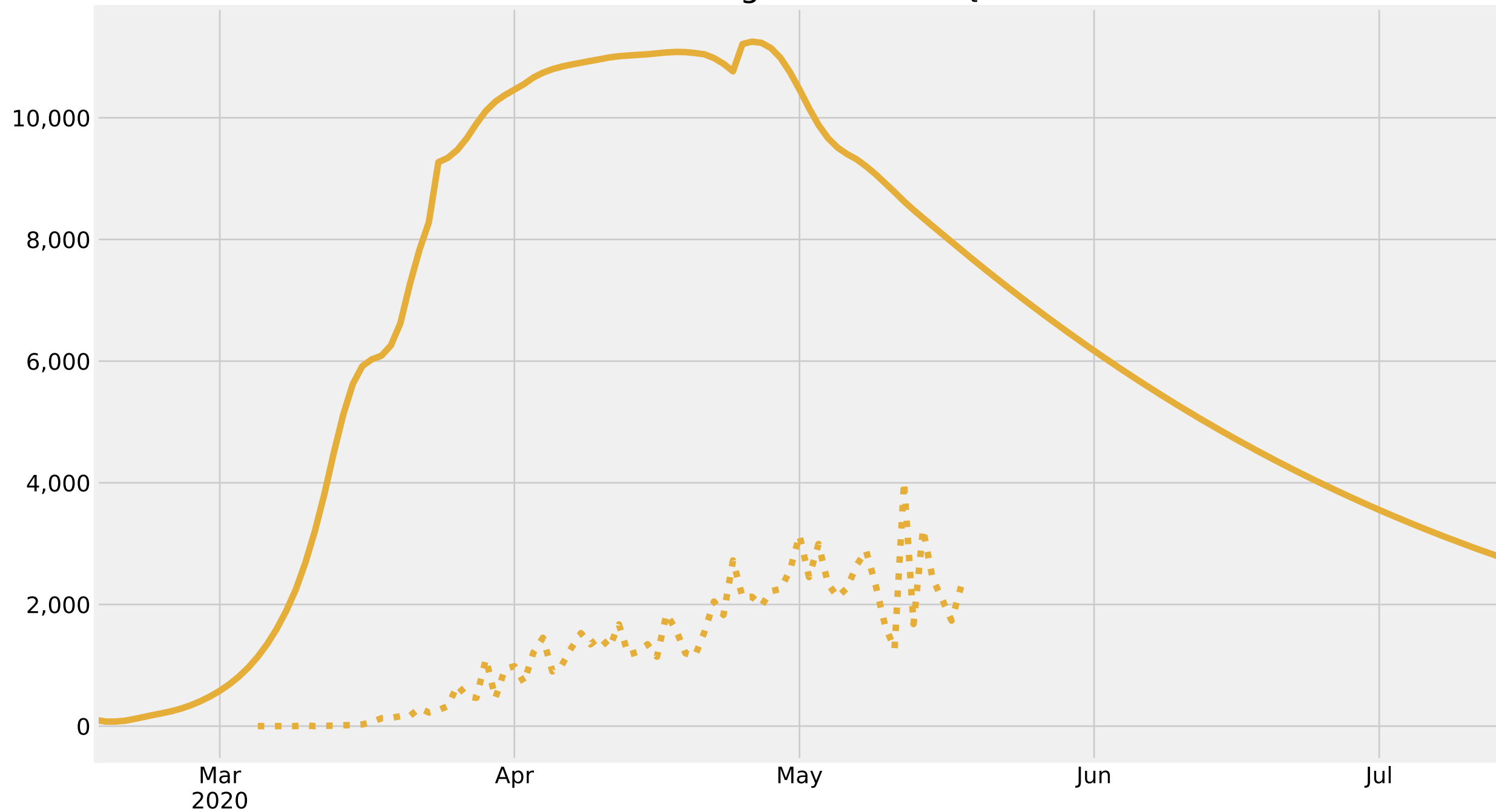
# Cumulative Infections Forecast Illinois: No Change in Future $R_t$ Scenario



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

# Daily Exposures Forecast

## Illinois: 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%

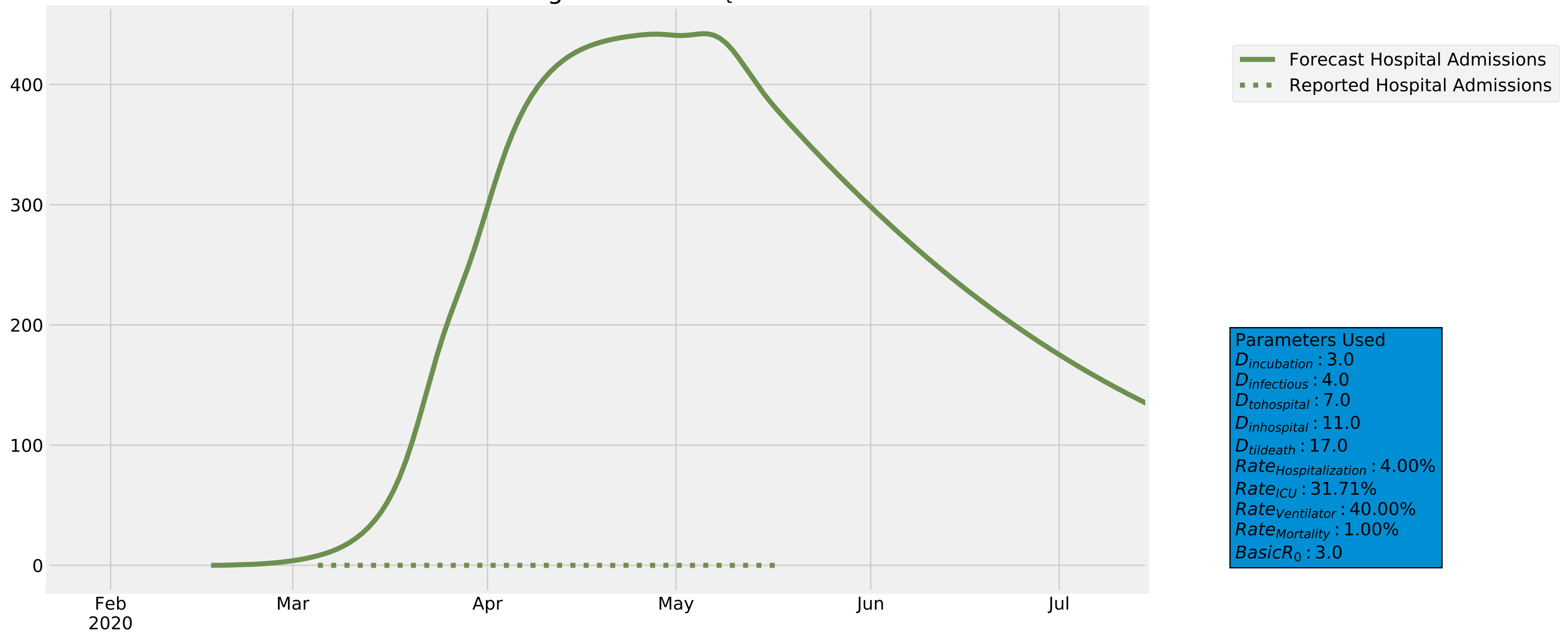
$Rate_{Mortality}$  : 1.00%

$BasicR_0$  : 3.0

Author: Michael Donnelly (twtr: @donnellymjd)

Chart created on 19 May 2020

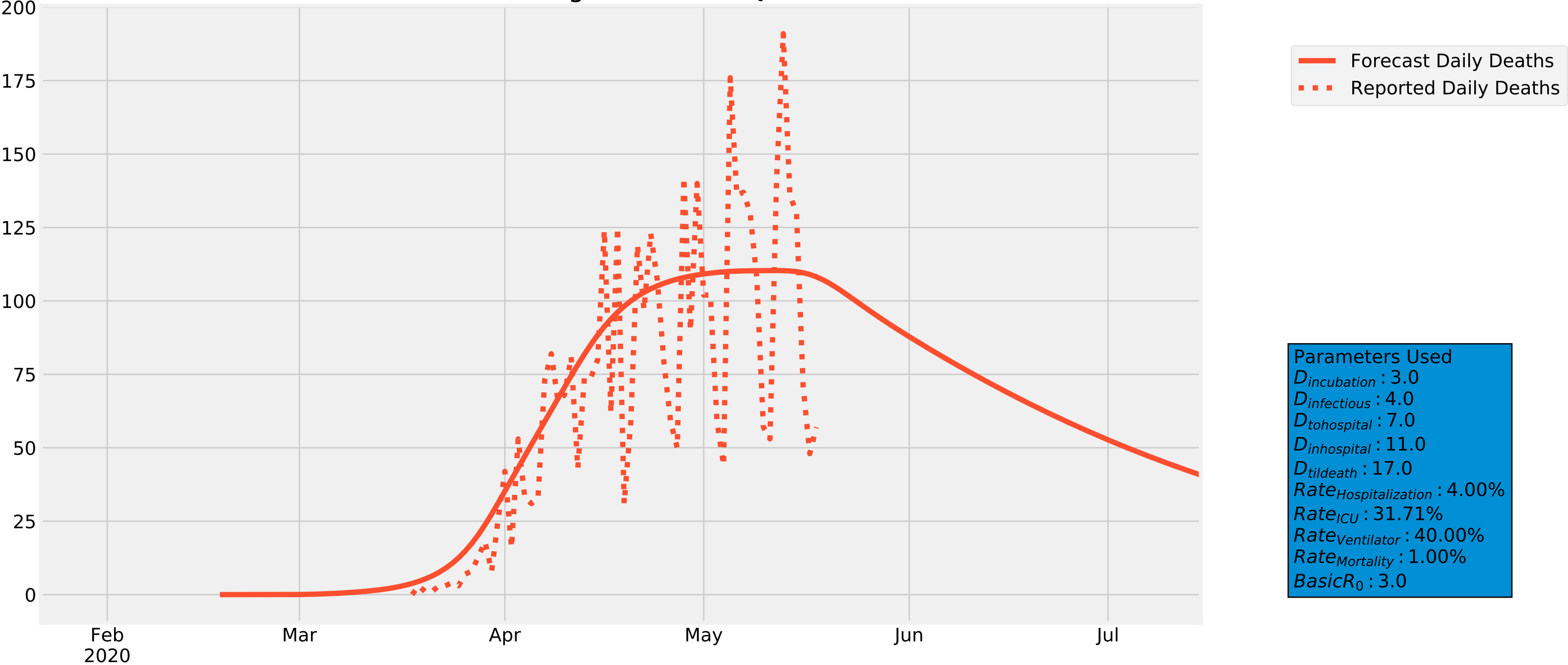
# Daily Hospital Admissions Forecast Illinois: No Change in Future $R_t$ Scenario



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

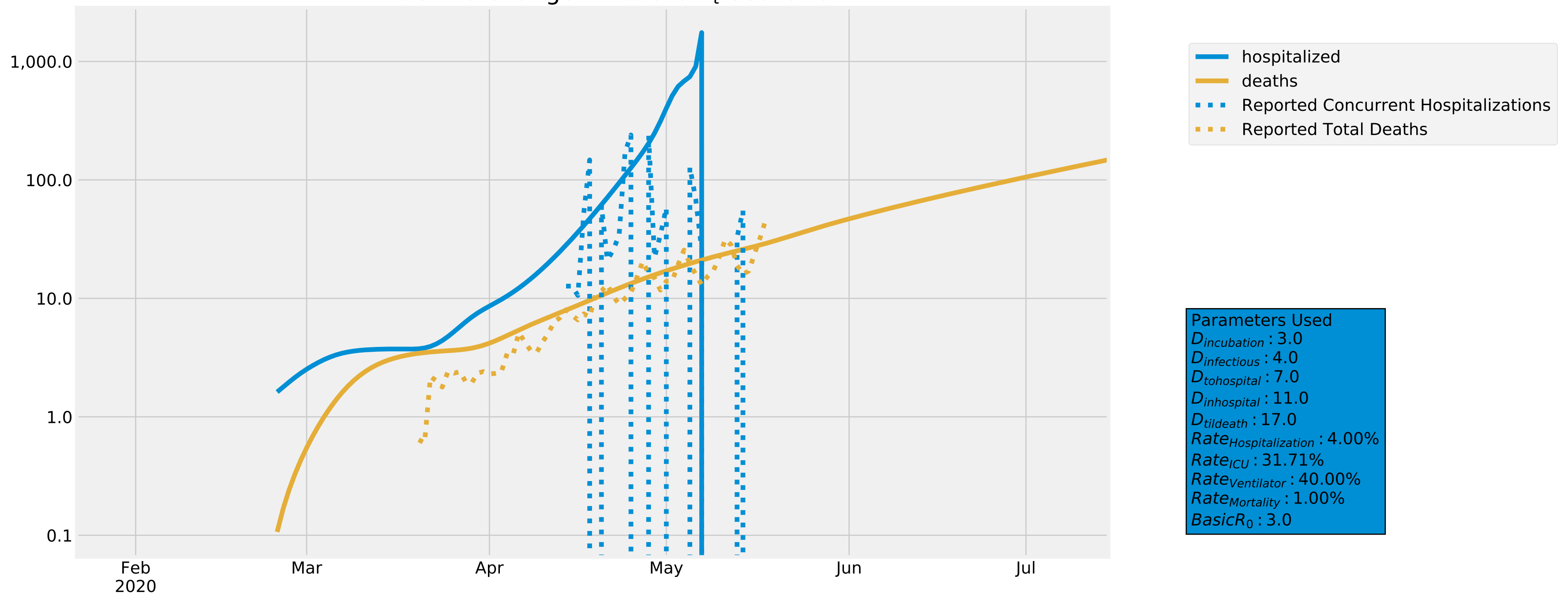


Daily Deaths Forecast  
Illinois: No Change in Future  $R_t$  Scenario



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

# Doubling Rate Forecast Illinois: No Change in Future $R_t$ Scenario



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