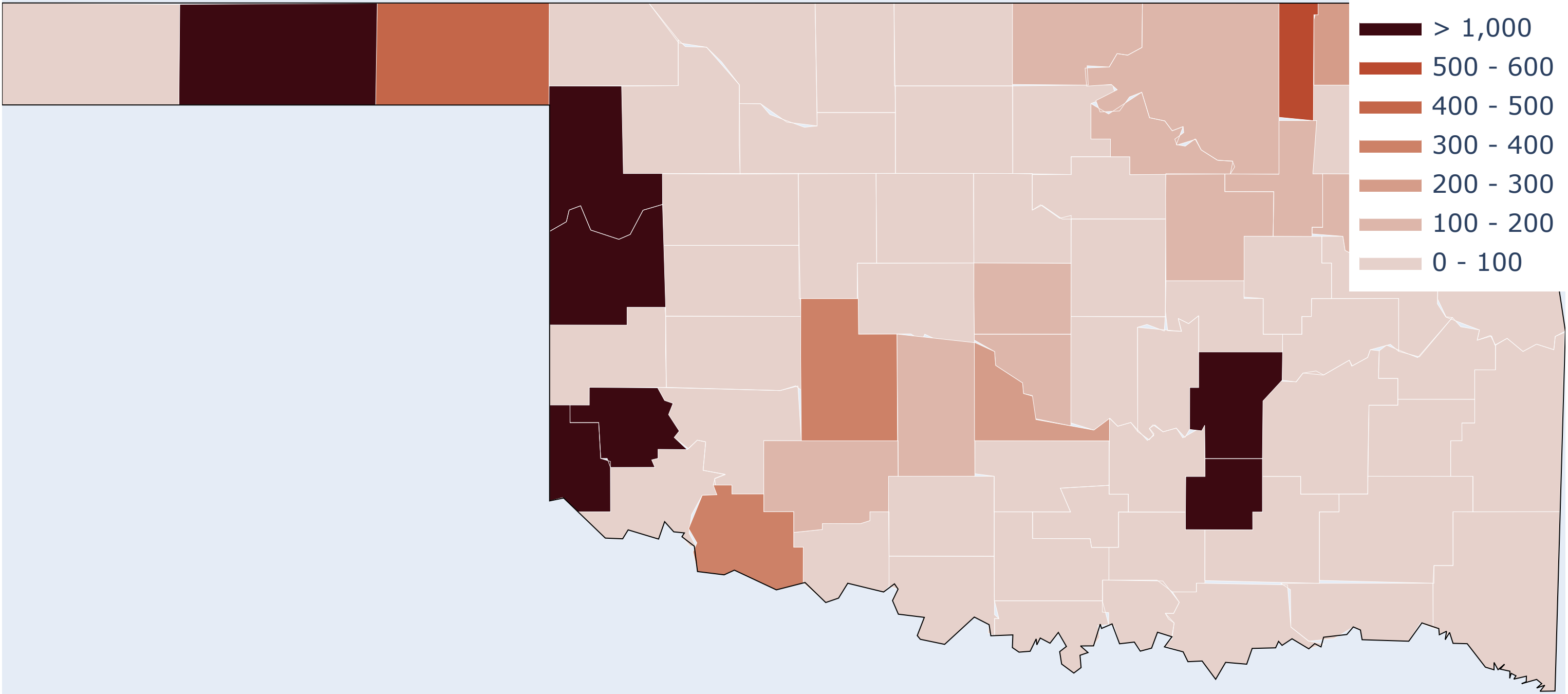
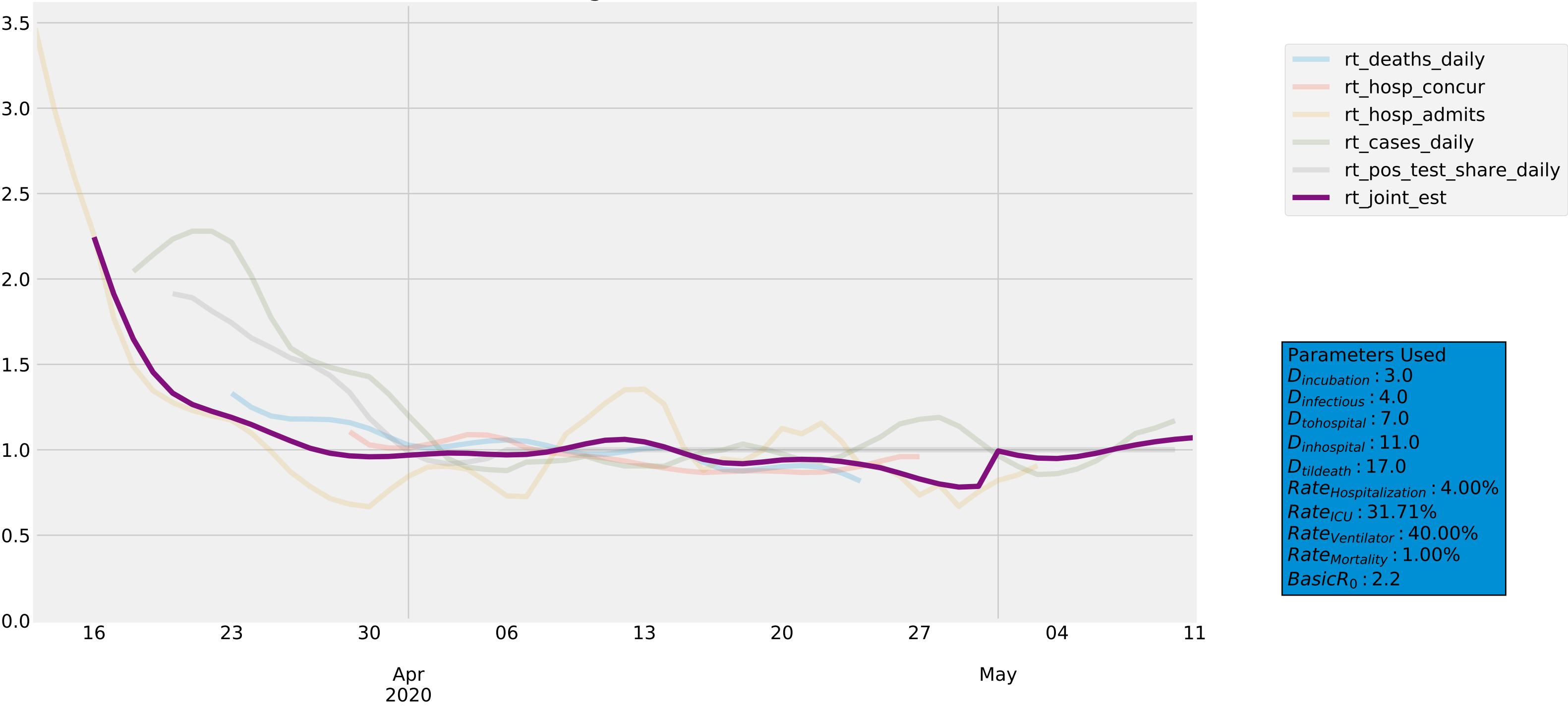


# Oklahoma: COVID-19 Cases Per 100k Residents



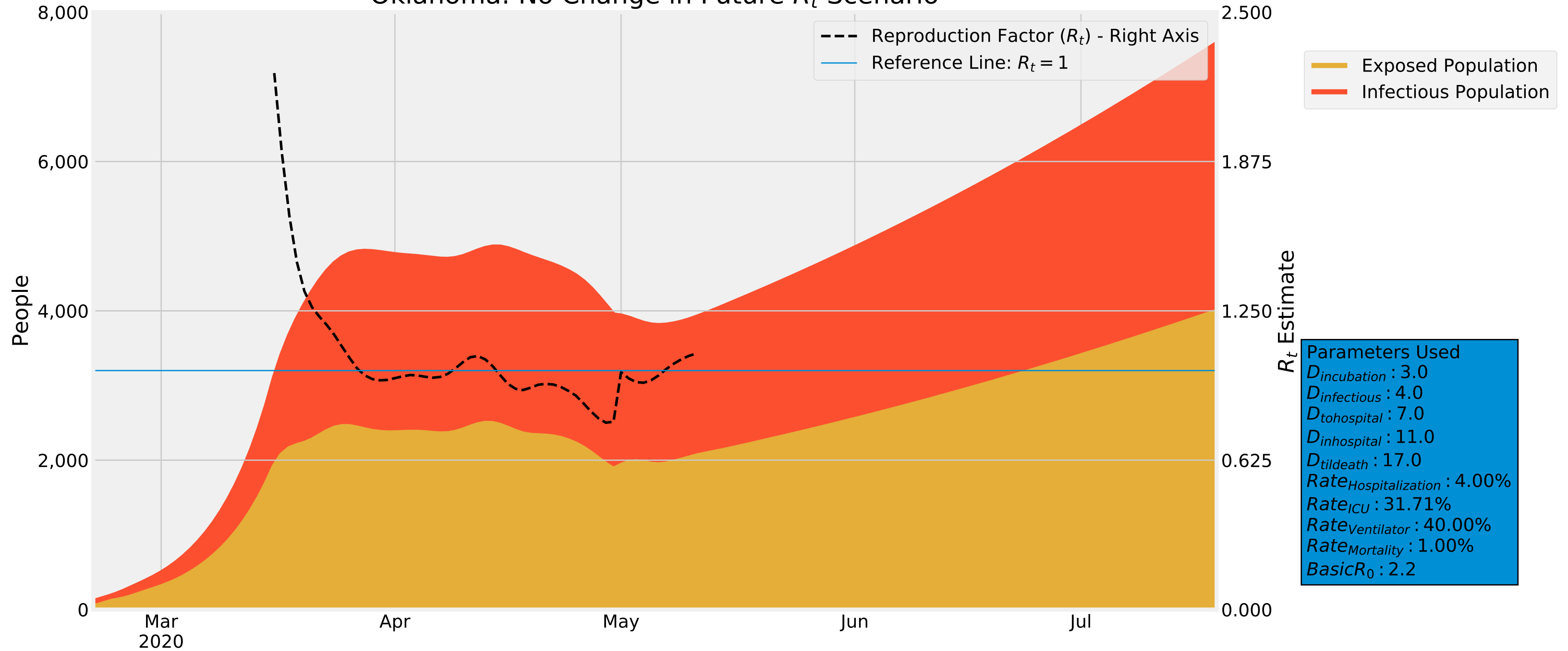
Reproduction Rate ( $R_t$ ) Estimates  
Oklahoma: No Change in Future  $R_t$  Scenario



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

# Simultaneous Infections Forecast

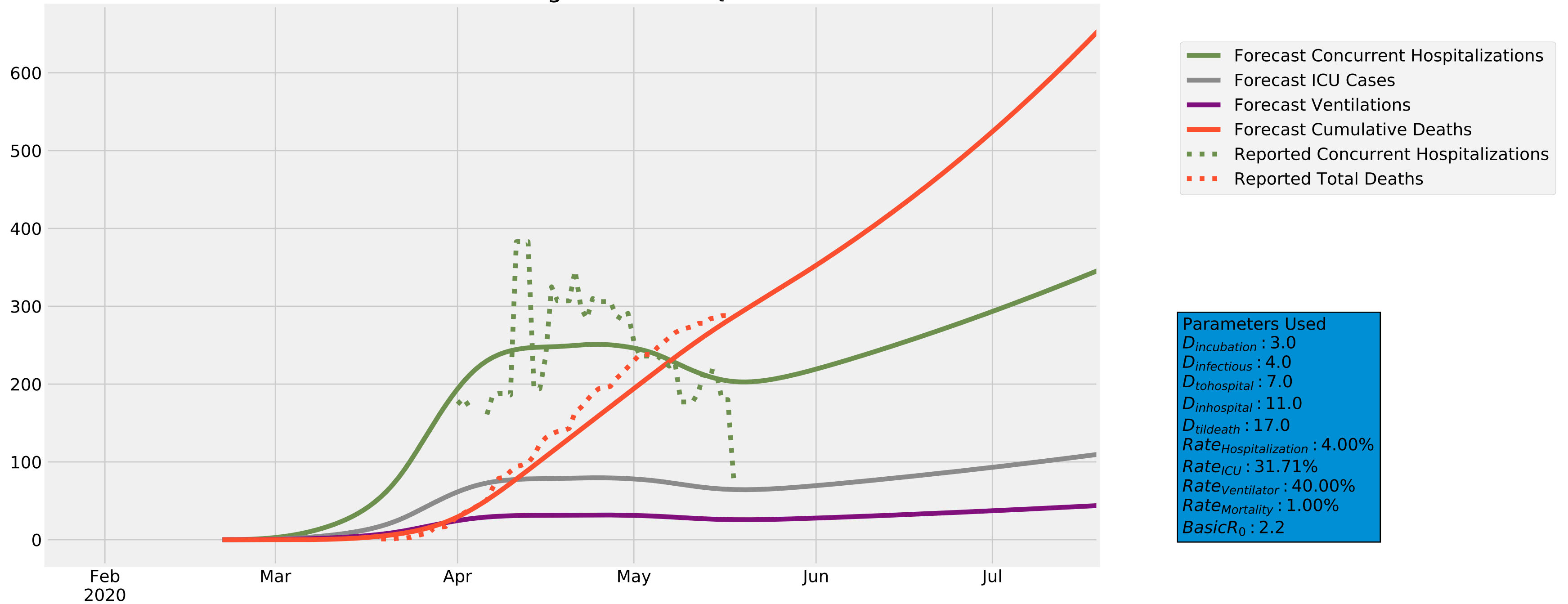
## Oklahoma: No Change in Future $R_t$ Scenario



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

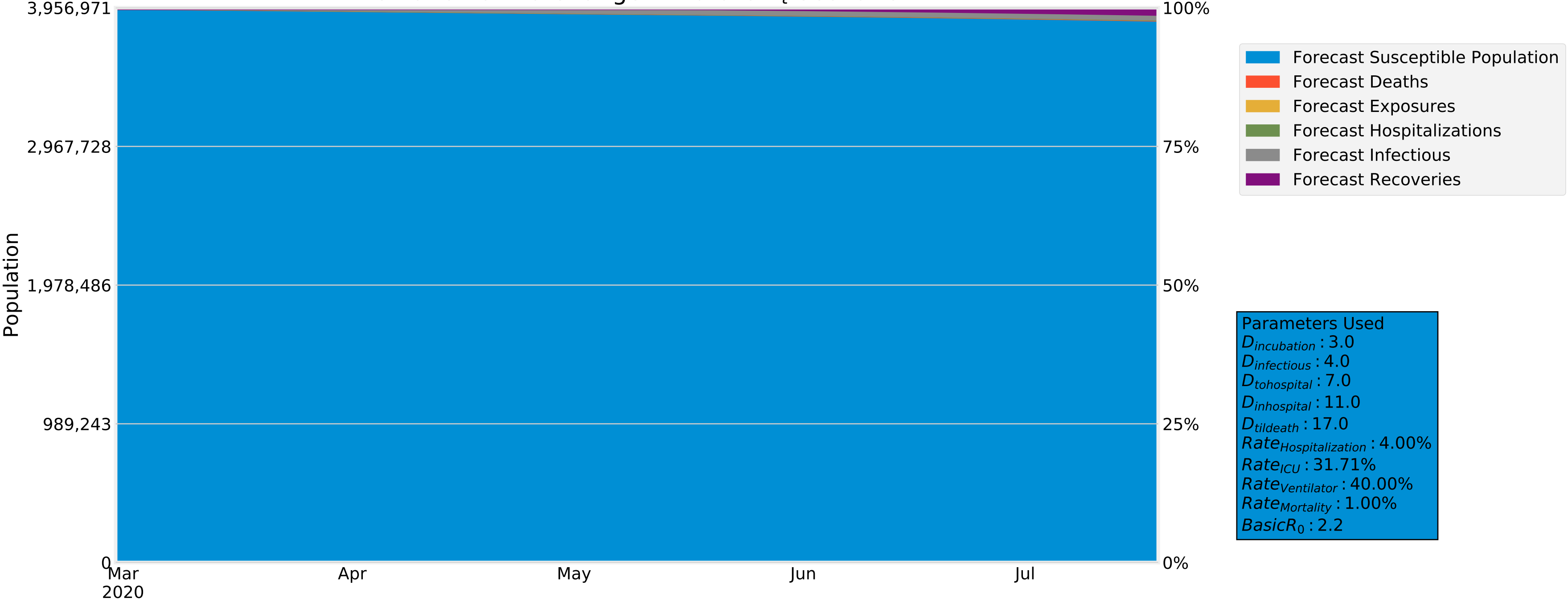
# Hospitalization and Deaths Forecast

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



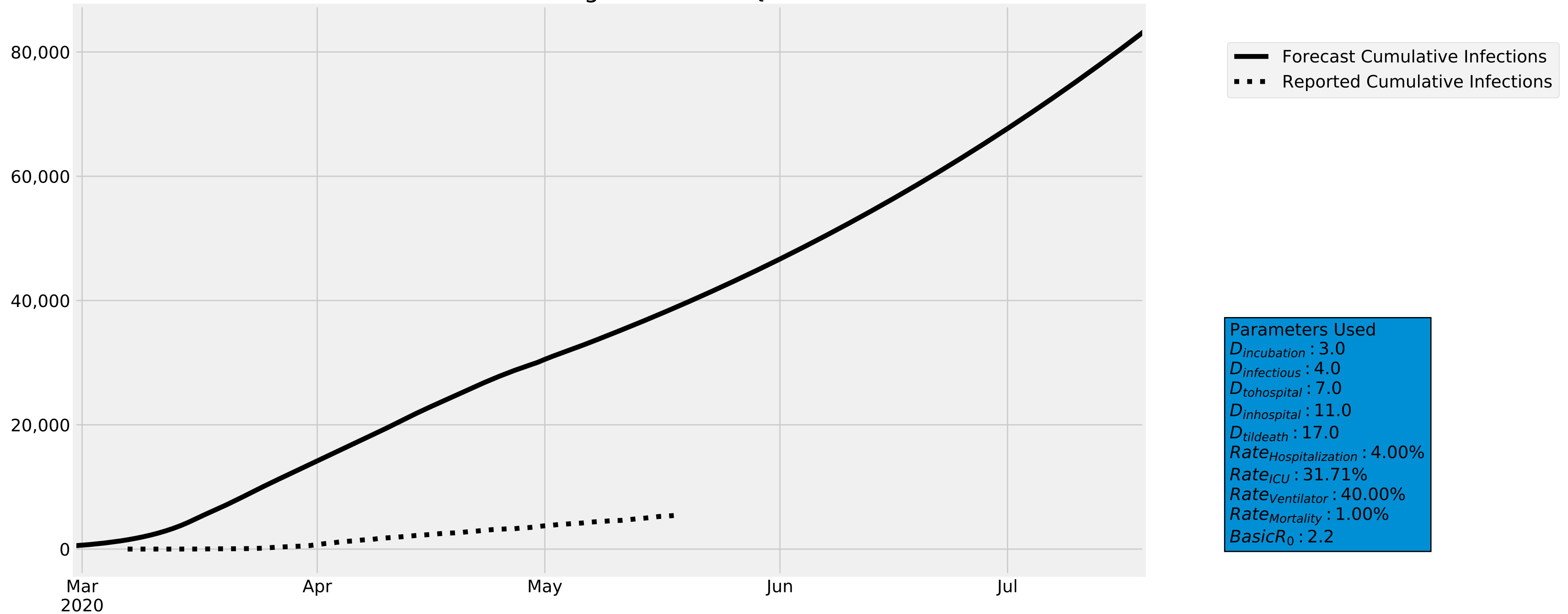
Author: Michael Donnelly (twtr: @donnellymjd)  
Chart created on 19 May 2020

Population Overview Forecast  
Oklahoma: No Change in Future  $R_t$  Scenario



# Cumulative Infections Forecast

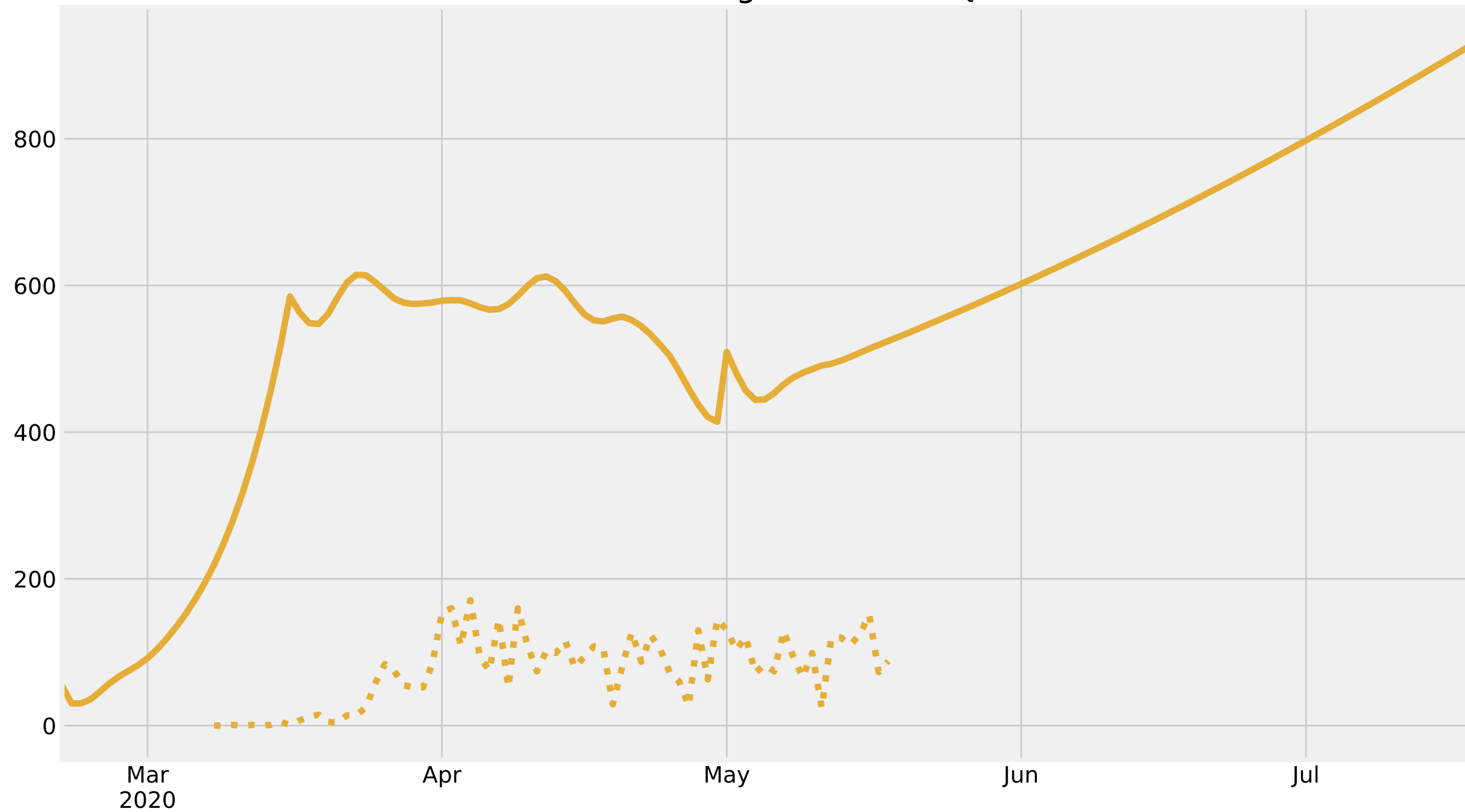
## Oklahoma: No Change in Future $R_t$ Scenario



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%  
 $BasicR_0$  : 2.2

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

# Daily Exposures Forecast Oklahoma: No Change in Future $R_t$ Scenario

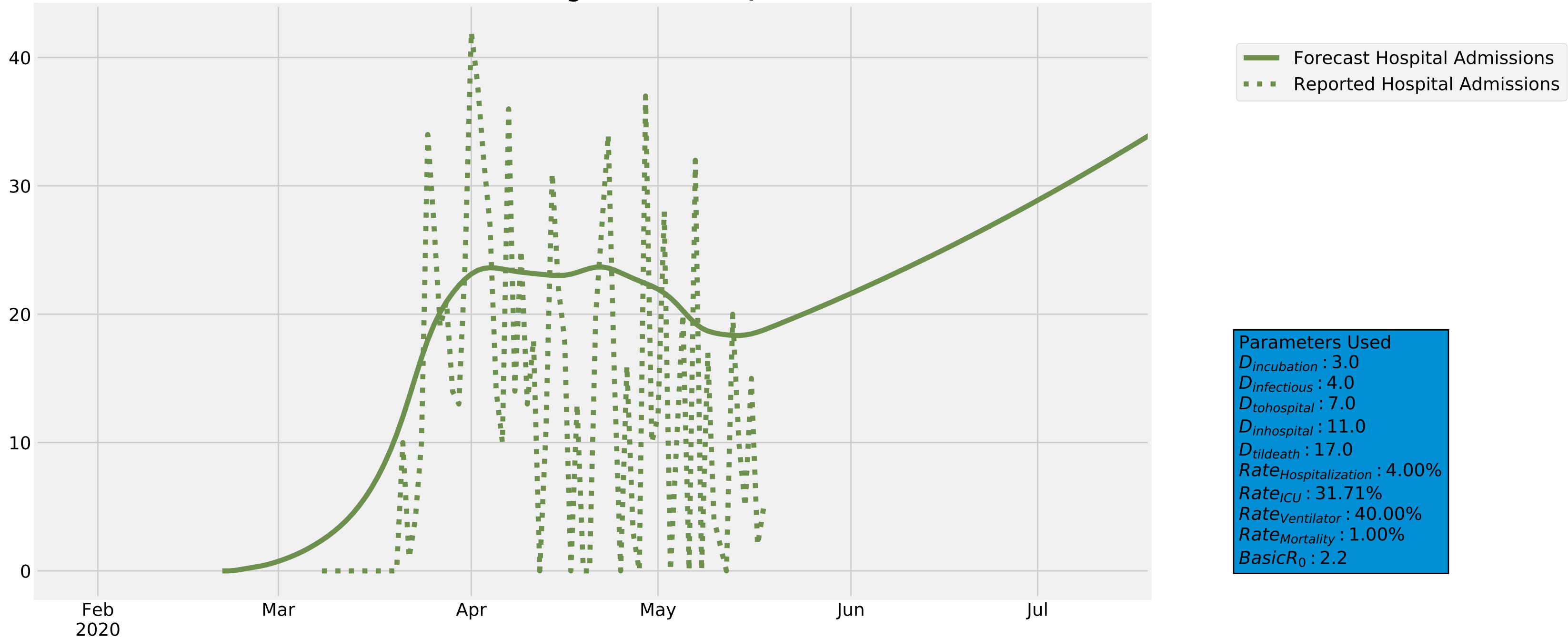


Forecast Daily New Infections (Exposed)  
Reported Daily New Infections (Exposed)

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%  
 $BasicR_0$  : 2.2

# Daily Hospital Admissions Forecast

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

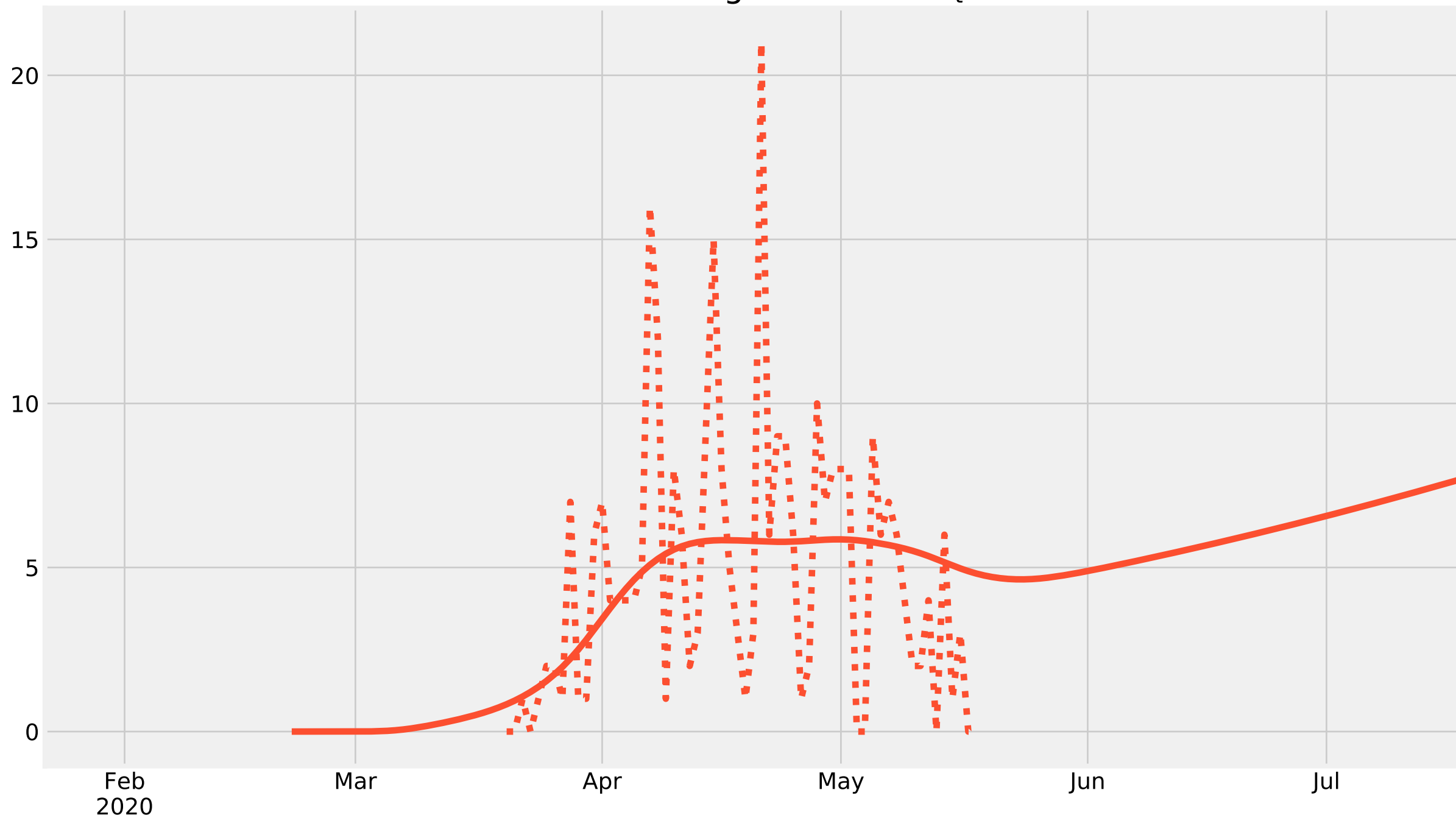


Author: Michael Donnelly (twtr: @donnellymjd)  
Chart created on 19 May 2020



# Daily Deaths Forecast

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

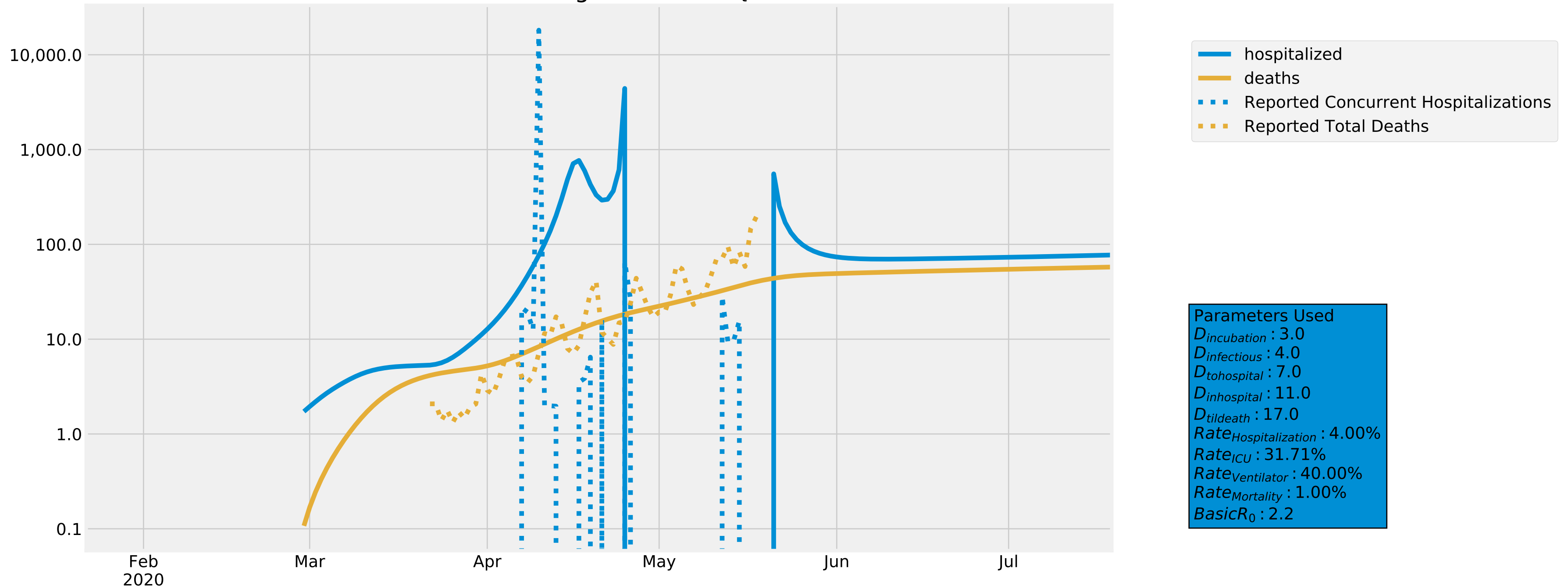


Forecast Daily Deaths  
Reported Daily Deaths

Parameters Used  
 $D_{incubation} : 3.0$   
 $D_{infectious} : 4.0$   
 $D_{tohospital} : 7.0$   
 $D_{inhospital} : 11.0$   
 $D_{tildeath} : 17.0$   
 $Rate_{Hospitalization} : 4.00\%$   
 $Rate_{ICU} : 31.71\%$   
 $Rate_{Ventilator} : 40.00\%$   
 $Rate_{Mortality} : 1.00\%$   
 $BasicR_0 : 2.2$

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

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



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