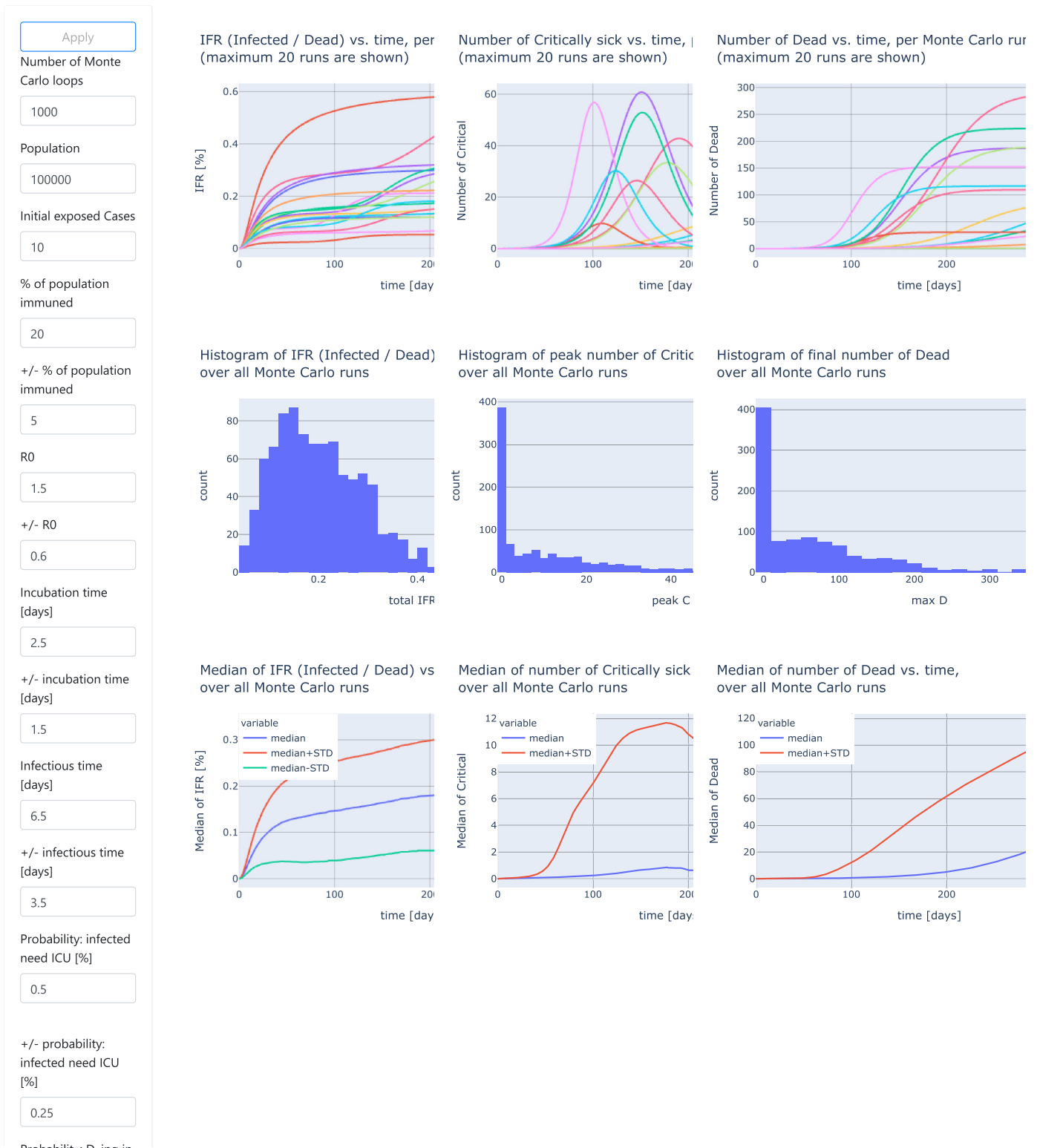


# SEIR Monte Carlo model

Interactively change by pressing the blue 'apply' button.

This model is intended to give a feeling how bad an epidemic can get if we "do nothing", meaning  $R_0$  stays constant with time. Many parameters have a range of uncertainty, therefore every parameter have an average value and a  $\pm$  range, and the Monte Carlo chooses a value in this range. This models the basic compartments of Susceptible, Exposed, Infected, Critical, Dead and Recovered. Only the non-immuned population can get exposed. Infected can either become Critical (needing ICU) or Recovered. Critical can become Dead or Recovered.

Note: Looping over many Monte Carlo rounds improves the noise but takes longer. 200 rounds were good for the median graphs, 1000 were needed for good histograms.



Probability: Dying in ICU [%]

40.5

+/- probability:  
Dying in ICU [%]

7.5

Time: infectious to ICU [days]

8.5

+/- time: infectious to ICU [days]

4

Time to die in ICU [days]

7

+/- time to die in ICU [days]

2

Time to recover in ICU [days]

14

+/- time to recover in ICU [days]

2