

COVID-19 Projections for Connecticut: Key Parameters

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Key epidemiologic parameters

Case type distribution

Probability of severe disease that requires hospitalization and may lead to death: 0.057.

Probability of mild disease that does not require hospitalization and will lead to recovery: 0.587.

Probability of asymptomatic infection: 0.356.

Probability of death

Probability of death given hospitalization: 0.18

Reproductive numbers

“Crude” basic reproductive number: 4.7.

This value of basic reproductive number is not adjusted for infections “imported” from NYC at early stages of the epidemic. Assuming that imported infections, in particular in Fairfield, accounted for one third of all infections (equivalently number of imported infections is half of locally acquired), the “adjusted” basic reproductive number equals 3.1

Reproductive number after school closure: 4.2

Reproductive number after school closure and lockdown: 0.7

Version:

Code version reference: