Scenario analysis for healthcare needs for COVID-19 in Georgia

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Introduction

Modeling health care needs in GA for COVID-19.

Assumptions

We assume that among those that are infected, X% require hospitalization.

Among those hospitalized, we assume X% require ventilators, X% require ICU.

Fraction hospitalized

- (Z. Wu and McGoogan 2020) report that around 19% of infected require hospitalization.

Fraction ICU

- (Remuzzi and Remuzzi 2020) report that 10% of infected (and diagnosed) are in ICU in Italy.
- (Z. Wu and McGoogan 2020) report that around 5% of infected require critical care.

Length of hospital stay

- (Guan et al. 2020) report 12 days duration of hospitalization for China.
- (Tindale et al. 2020) report 13.3 days
- (Sanche et al. 2020) find 11.5 days to discharge, 11.2 to death for China.

Fraction deaths among hospitalized

- (P. Wu et al. 2020) estimate that 14% hospitalized die.

Comments

- See (Li et al. 2020) for a similar analysis
- See also propublica: https://projects.propublica.org/graphics/covid-hospitals

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