Supplementary Materials

Article title: Forecasting COVID-19-Associated Hospitalizations under Different Levels of Social Distancing in Lombardy and Emilia-Romagna, Northern Italy: Results from an Extended SEIR Compartmental Model

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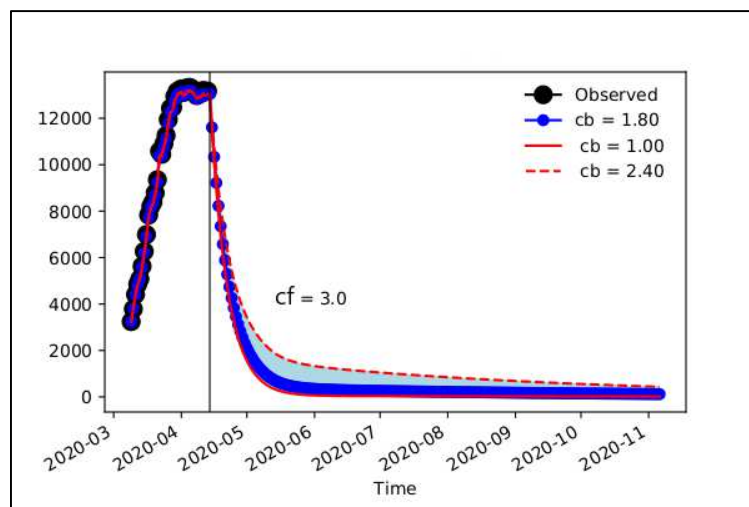
Figure S1. Lombardy's COVID-19-associated hospitalizations, assuming that on day 0 (9 March 2020) there were 5 times as many undetected infected individuals $(A + I)$ as known infected individuals $(H + L + D)$.
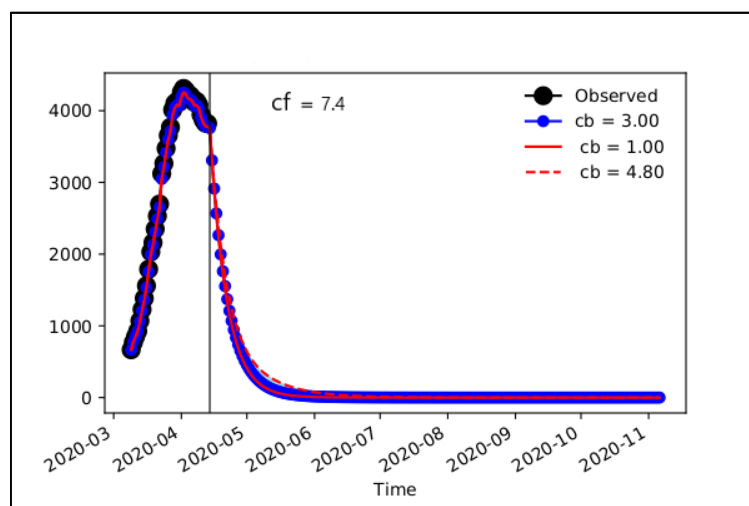

Figure S2. Emilia-Romagna's COVID-19-associated hospitalizations, assuming that on day 0 (9 March 2020) there were 5 times as many undetected infected individuals $(A + I)$ as known infected individuals $(H + L + D)$.
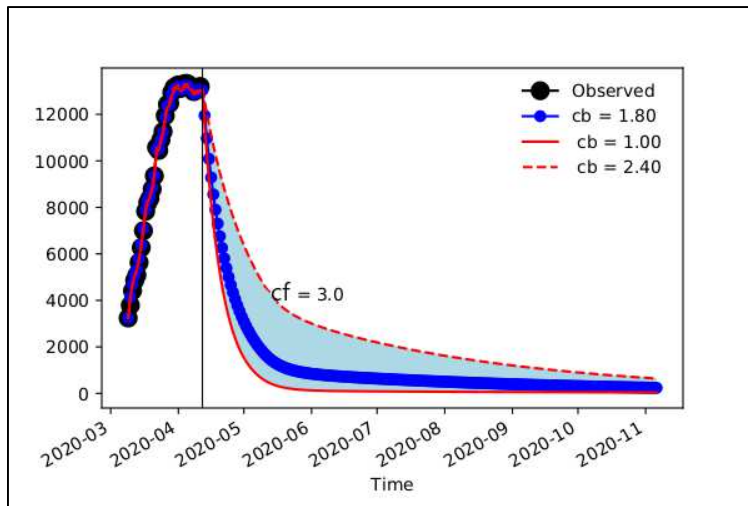
Figure S3. Lombardy's COVID-19-associated hospitalizations, assuming that on day 0 (9 March 2020) asymptomatic cases (*A*) were one-third of the infected pool (*A* + *I*).
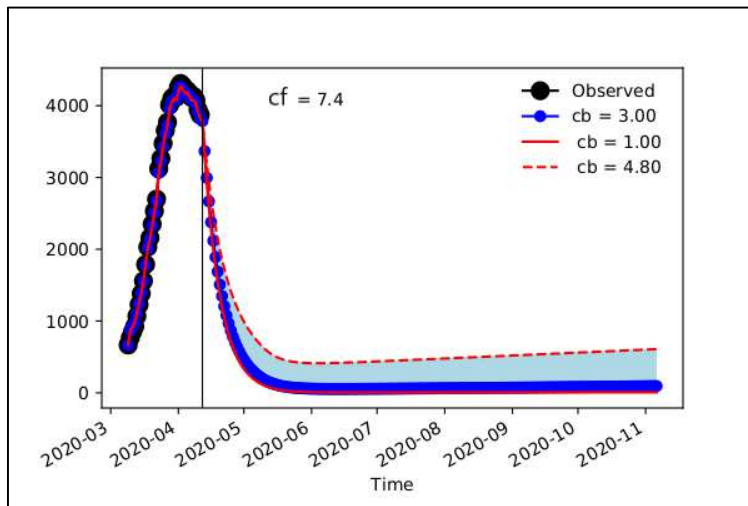

Figure S4. Emilia-Romagna's COVID-19-associated hospitalizations, assuming that on day 0 (9 March 2020) asymptomatic cases (*A*) were one-third of the infected pool (*A* + *I*).
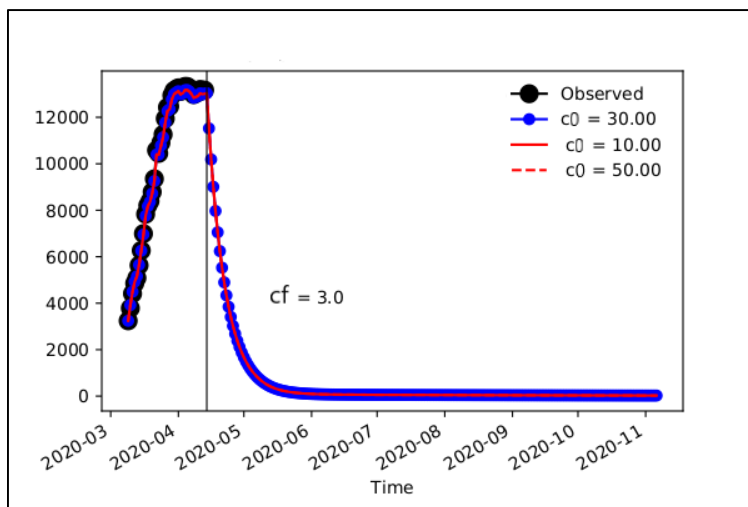

Figure S5. Lombardy's COVID-19-associated hospitalizations under different values of the contact rate on day 0 (9 March 2020).

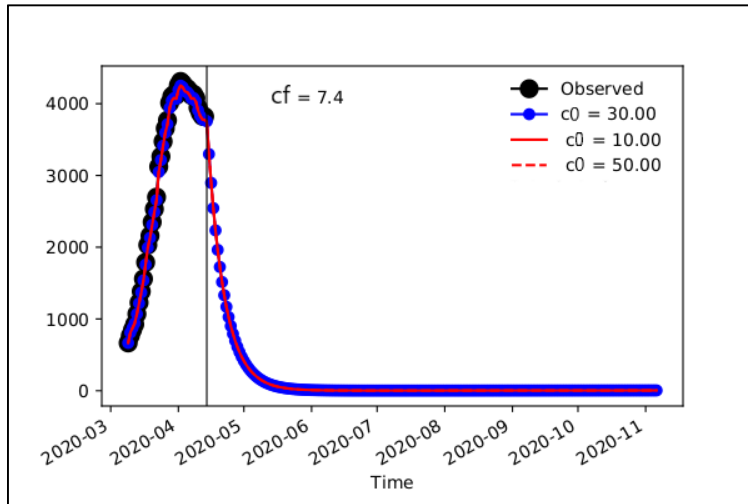**Figure S6.** Emilia-Romagna's COVID-19-associated hospitalizations under different values of the contact rate on day 0 (9 March 2020).