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

Journal name: Journal of Clinical Medicine

Author names: Chiara Reno, Jacopo Lenzi, Antonio Navarra, Eleonora Barelli, Davide Gori, Alessandro Lanza, Riccardo Valentini, Biao Tang and Maria Pia Fantini

Affiliation and e-mail of the corresponding author: Alma Mater Studiorum—University of Bologna, jacopo.lenzi2@unibo.it

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).