**Supplemental Material for “Comparing multiple infection control measures in a nursing home setting: a simulation study”**

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| **SM Figure 1.** Barplot of the number of healthcare workers (HCWs) each resident interacts with each day. On average, each resident contacted 7.8 HCWs, ranging from 1 to 15. |
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| **SM Figure 2.** Density plot of the time each resident spends in the same room with each HCW. On average, residents spend 36.7 minutes in the same room as another HCW, ranging from 1 minute to 3.5 hours. |
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| **SM Figure 3.** Barplot of the number of residents each resident interacts with daily. On average, each resident was in contact with 4.7 residents, ranging from 0 to 15. |
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| **SM Figure 4.** Barplot of the daily number of HCW interactions for each HCW. On average, each HCW interacted with another HCW 10.7 times per day. |
| A graph with numbers and a bar  Description automatically generated |

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| **SM Figure 5.** Density plot of the length of time each pair of HCWs are in the same room. On average, each HCW-HCW interaction lasts 41.1 minutes, ranging from 1 minute to 4.4 hours. |
| A graph with numbers and lines  Description automatically generated |

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| **SM Figure 6.** Barplots showing the number of residents in each of the two common rooms in each 15 minute period. |
| A graph of a number of different sizes  Description automatically generated with medium confidence  A graph of a number of bars  Description automatically generated with medium confidence |

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| **SM Figure 7.** Attack rates for HCWs. (A) residents contact each other homogeneously; (B) residents contact each other within 4 bubbles; (C) residents contact each other within 8 bubbles. |
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| **SM Figure 8.** Diagnostic sensitivity curve. Sensitivity is determined by the day relative to symptom onset. The red line is the raw data from Kucirka et al. (2020), and the black curve- used in our simulations- has been smoothed via spline regression. |
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