



**Supplementary Figure 1.** Accuracy of edge weight parameters and their bootstrapped confidence intervals. The gray indicates the bootstrapped confidence intervals; and the red line represents the values of real sample. The y-axis represents all observed edges of the network. This accuracy analysis results showed accurate and small confidence intervals for all edge weights, suggesting that the sample is similar to the population. The name of the edge is omitted due to large number of edges. COVID-19, coronavirus disease-2019.