

Supplemental Table 1. Association of skilled nursing facility characteristics and county SARS-CoV-2 prevalence with the probability of a facility having at least one resident with SARS-CoV-19 (n=3,357)

Characteristic	Marginal Effect	Standard Error	95% CI		<i>P</i>
No. Beds (10s)	0.90	0.159	0.576	1.230	<0.001
Admissions per bed per year	0.09	0.663	-1.276	1.455	0.89
Mean resident age	0.22	0.116	-0.022	0.456	0.07
% Black	0.19	0.095	-0.003	0.386	0.05
% dementia	-0.03	0.051	-0.130	0.079	0.62
1-2 Star-rating for health inspections (Ref. 3)	0.67	1.388	-2.191	3.525	0.64
4-5 Star-rating for health inspections (Ref. 3)	-2.88	1.058	-5.062	-0.702	0.01
1-2 Star-rating for staffing (Ref. 3)	0.57	1.570	-2.664	3.802	0.72
4-5 Star-rating staffing (Ref. 3)	-1.91	1.597	-5.195	1.383	0.24
Infection control citation	1.10	1.790	-2.586	4.788	0.54
County Prevalence (%)	33.64	11.683	9.574	57.698	0.008

Note: Analysis was conducted on 341 Genesis and 3,016 non-Genesis skilled nursing facilities. The outcome was whether or not a facility had at least one resident with SARS-CoV-2 as of April, 21, 2020 (date when collection of state data for non-Genesis facilities was completed). Point estimates are obtained from a linear regression model with state effects. Standard errors were clustered by state. County prevalence (as of April 21, 2020) is represented as a percentage in the model, such that a 1 percent change is equivalent to a change in 1000 cases per 100,000 population. Ref=reference group

Supplemental Table 2. Association between skilled nursing facility characteristics and count of SARS-CoV-2 resident cases among Genesis facilities with an outbreak (n=154).

Characteristic	Marginal Effect	Standard Error	95% CI		<i>P</i>
No. Beds (10s)	1.96	0.53	0.92	2.99	<0.001
Admissions per bed per year	-3.53	1.96	-7.37	0.31	0.07
Mean resident age	0.79	0.70	-0.58	2.17	0.26
% Black	-0.13	0.18	-0.49	0.23	0.29
% dementia	0.13	0.12	-0.11	0.36	0.48
Star-rating for health inspections	1.52	2.21	-2.81	5.85	0.49
Star-rating for staffing	-1.75	3.28	-8.18	4.68	0.59
Infection control citation	-5.84	5.05	-15.75	4.06	0.25
Facility underwent full testing	6.44	5.69	-4.72	17.60	0.26
County prevalence (%)	12.60	4.17	4.42	20.78	0.003
Date of first county case	-0.84	0.36	-1.55	-0.14	0.02

Note: Analysis was conducted on 154 Genesis skilled nursing facilities reporting at least one confirmed resident case as of May 4, 2020. Point estimates are obtained from a Poisson regression model with standard errors clustered by state. Marginal effects were calculated using predictive margins. County prevalence (as of May 4, 2020) is represented as a percentage in the model, such that a 1 percent change is equivalent to a change in 1000 cases per 100,000 population.