Supplemental Table S1. Facility Characteristics and Infection Control Policies

	Nursing Home Facility							
Facility Characteristics (as of January 2021)	1	2	3	4				
Ownership status	Non profit -	For profit - Individual	Non profit - Corporation	Non profit - Other				
Dad size	Corporation	40	215	O.C.				
Bed size	161	40	215	85				
Star rating	2	5	2	4				
Composition of COVID-19 response team	Nurses aids, nurses, IP nurse, DON, administrator, medical director	DON, IP, administrator, therapy manager, maintenance director	CNAs, LPN/RN, unit manager, IP nurse, DON, administrator, medical director	IP nurse, RN manager, medical director, executive management team, DON, administrator				
COVID-19 Unit Characteristics								
Presence of a dedicated unit for treatment of COVID-19 patients?	Yes	Yes	Yes	Yes				
Are all rooms private, shared, or mix of both?	Mix of both	Private	Mix of both	Private				
Do dedicated staff care for COVID-19 patients, or can staff care for both positive and negative patients in the same shift?	Dedicated staff	Dedicated staff	Dedicated staff	Dedicated staff				
Policy for removing COVID-19 patients from isolation precautions	Remove 14 days after positive test and 2 negative tests (24 hrs apart)	Remove 10 days after symptom onset and negative rapid test prior to moving out of unit	Remove after 10 days from positive test and with no symptoms	Remove 10 days after symptom onset				
Audits								
Does your facility audit HCP compliance with the following practices?								
Hand hygiene	Yes, daily	Yes, weekly	Yes, every 2 months	Yes, daily				
PPE donning and doffing	Yes, weekly	Yes, weekly	Yes, every 2 months	Yes, daily				
Cleaning and disinfection of resident rooms	Yes, monthly	Yes, weekly	Yes, every admission and discharge	Yes, daily				
Cleaning and disinfection of resident equipment	Yes, weekly	Yes, weekly	Yes, between patient use	Yes, daily				
Personal Protective Equipment								
When are gowns/gloves used?	All patient encounters	Extended use of gowns in the COVID unit;	At all times in COVID unit	As soon as entering COVID-19 unit; off				

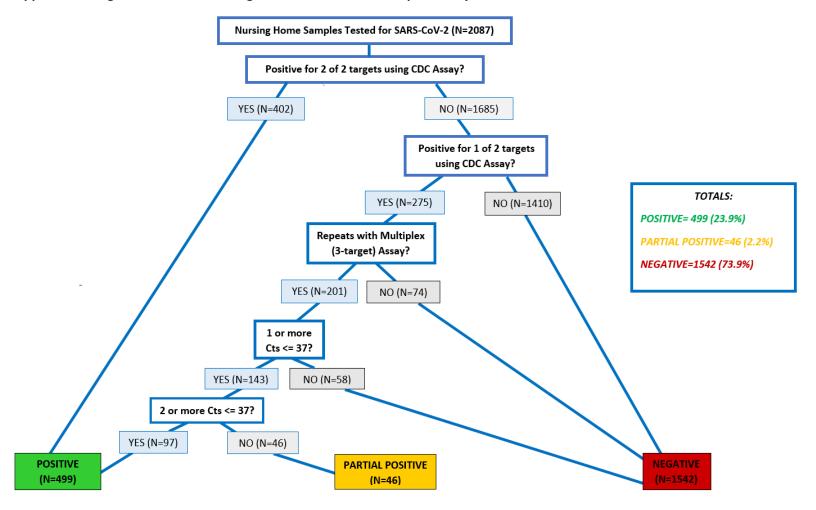
		gloves changed at patient encounter		when entering breakroom
Mask types worn in COVID-19 unit	N95	N95	Standard masks and N95	Standard masks and N95
Length of mask wearing?	Extended use	Extended use	Extended use	Extended use
Eye protection worn?	Yes	Yes	Yes	Yes
Eye protection disinfected between patient encounters?	Yes	No	Yes	No
What PPE is worn for aerosol generating procedures (AGPs)?	Respirator, eye protection, gowns/gloves	Respirator, eye protection, gowns/gloves	No AGPs performed	No AGPs performed
Are new masks provided to staff on a daily basis?	Yes	Yes	Yes	Yes
All patients required to wear masks outside their room?	Yes	Yes	Yes	Yes
All patients required to wear masks inside their room during patient care?	Yes	No	Yes	Yes
Environmental Cleaning				
Cleaning policy in place?	Yes	Yes	Yes	Yes
Frequency of COVID-19 patient room cleaning	Everyday	Everyday	Everyday	Every other day
Approx. time spent cleaning COVID-19 patient room (in mins)	20	15-30	15	30
Approx. time spent cleaning COVID-19 patient room, following patient discharge (in mins)	30	30	60	120
Frequency of COVID-19 unit/hallway cleaning	Daily	Daily	3x/day	Daily
Typical cleaning times	7am-4:30pm	Afternoon	7am-3:30pm	1:30-4pm
Daily cleaning products used	Clorox Bleach Germicidal Cleanser and wipes	TBcide on regular days; Bleach following patient discharge	Clorox Bleach Germicidal Cleaner, Peroxide Multi Surface Cleaner and Disinfectant, and Sani- Clean 2	Ecolab Peroxide Multi Surface Cleaner and Disinfectant, 9 other Clorox products
High-touch areas emphasized	Doorknobs; call lights; side rails; toilets; sinks; TV/call remotes	Bedside tables; bathrooms	Door knobs; call lights; pull cords; bathroom railings; toilets; sinks; table tops; TV/call remotes	Hand rails; door knobs; tray tables; remotes; call lights; walls; chairs; wardrobes; windowsill
Air vents cleaned regularly?	Yes, unknown frequency.	Yes, at patient discharge.	Yes, unknown frequency.	Yes, once/week.

Privacy curtain policy in place?	Yes, changed/cleaned	No privacy curtains in	Privacy curtains are	No privacy curtains in
	at the time of discharge	COVID-19 patient	changed when a patient	COVID-19 patient
		rooms	is discharged from the	rooms
			unit.	
Environmental services education provided?	Yes, teaching sessions	Yes, monthly in-person	Yes, monthly	Yes, monthly inservices
	with quiz conducted	meetings	educational games,	
	annually and as needed		quizzes with prizes	
Do nurses, CNAs assist with room cleaning?	Yes; strip the room of	No	Yes; every shift they	No
	linen, bedding, towels		assist with cleaning high-	
			touch areas, changing	
			bedding, and cleaning	
			bed pans	

Supplemental Table S2. Study Population COVID-19 Signs and Symptoms, per Medical Chart Documentation

	Nursing Home Facility				
	1	2	3	4	Total
	N=6	N=27	N=62	N=9	N=104
In the two weeks following the initial COVID-19 positive					
test, were the following symptoms present, as					
documented in nursing/physician notes?					
Hypoxia (blood O2 <95%)	6 (100.0)	22 (81.5)	61 (98.4)	9 (100.0)	98 (94.2)
Hypotension (BP < 90/60)	6 (100.0)	18 (66.7)	56 (90.3)	7 (77.8)	87 (83.7)
Fever or chills	3 (50.0)	9 (33.3)	43 (69.4)	4 (44.4)	59 (56.7)
Cough	4 (66.7)	11 (40.7)	34 (54.8)	6 (66.7)	55 (52.9)
Poor appetite/Poor po intake	3 (50.0)	6 (22.2)	40 (64.5)	3 (33.3)	52 (50.0)
Fatigue	1 (16.7)	7 (25.9)	30 (48.4)	0 (-)	38 (36.5)
Shortness of breath or difficulty breathing	1 (16.7)	7 (25.9)	16 (25.8)	1 (11.1)	25 (24.0)
Tachypnea (abnormally rapid breathing; R>24 or HR>120)	1 (16.7)	3 (11.1)	15 (24.2)	1 (11.1)	20 (19.2)
Diarrhea	0 (-)	7 (25.9)	9 (14.5)	3 (33.3)	19 (18.3)
Muscle or body aches	0 (-)	1 (3.7)	15 (24.2)	2 (22.0)	18 (17.3)
Nausea or vomiting	2 (33.3)	5 (18.5)	8 (12.9)	O (-)	15 (14.4)
Congestion or runny nose	0 (-)	3 (11.1)	11 (17.7)	1 (11.1)	15 (14.4)
Worsening functional status	0 (-)	0 (-)	10 (16.1)	1 (11.1)	11 (10.6)
Headache	0 (-)	2 (7.4)	5 (8.1)	O (-)	7 (6.7)
New loss of taste or smell	1 (16.7)	2 (7.4)	4 (6.5)	0 (-)	7 (6.7)
Sore throat	1 (16.7)	1 (3.7)	4 (6.5)	0 (-)	6 (5.8)
Change in mental status	0 (-)	2 (7.4)	3 (4.8)	1 (11.1)	6 (5.8)
No. symptoms present, mean (SD)	4.8 (2.3)	3.9 (2.5)	5.9 (2.1)	4.3 (2.4)	5.2 (2.4)

Supplemental Figure S1. PCR Results Algorithm for CDC and Multiplex Assays



Supplemental Figure S2. Pairwise Correlation of Environmental Contamination on Enrollment and during Follow-up

	Bed controls	0.3531	0.3404		0.1717	0.2250	0.0472	0.0472 87	0.0738 88	0.2685	Phi Co	efficient
ment	Call button	0.3421	0.4046	0.2482	0.1673	0.0552	0.1074	0.0705	0.0274	0.1917	>0.25	Very strong
		88	88	88	52	49	88	87	88	73	>0.15	Strong
	Table top	0.4507 88	0.3025 88	0.4706 88	0.4996 52	0.2501 49	0.0658	0.2326 87	0.1076 88	0.1956 73	>0.10	Moderate
ırol			00	00	52	.,,	00		00	7.5		_
on Er	TV Remote	0.3167 48	0.3055 48	0.3780 48	0.3582 47	0.1936 14	0.4046 48	0.1317 47	0.1187 48	0.0564	>0.05	Weak
ation	Privacy curtain	0.0769	0.0377	0.1183	N/A	0.3449	0.0705	0.1023	0.0796	0.1754	>0	No or very weak
Contamination on Enrollment		47	47	47		47	47	46	47	42		
	Windowsill	0.1093	0.1010	0.0783	0.1183 52	0.2495	0.5072 88	0.0327 87	0.1653 88	0.3060		
2 C		88	88	88	52	49	00	87	00	73		
SARS-CoV-2	Toilet seat	0.1415	0.1787	0.2450	0.2562	0.1211	0.0652	0.5338	0.2142	0.1240		
SS-C		87	87	87	51	49	87	86	87	72		
SA	Doorknob	0.2525	0.2110	0.3902	0.3765	N/A	0.2401	0.2126	0.2633	0.0398		
		88	88	88	52		88	87	88	73		
	Air vent	0.0491	0.0262	0.0460	0.1834	0.0687	0.0671	0.0839	0.0262	0.2988		
		70	70	70	35	42	70	70	70	69		
		ontrols,	outton ,	ole top	mote	Curtain	dowsill Toil	atseat	arknob	ir vent		
	Beda	ontrols Call	, <3	1/8	Crivacy	0.0687 42 Curtain	ان روزا	00	O			
					Α,							

SARS-CoV-2 Contamination during Follow-up

Phi Coefficient (measure of pairwise correlation) indicated in each pairwise square. N observations for each pair indicated in bottom right corner of each pairwise square. Strength of pairwise correlations indicated by colors, per figure legend.