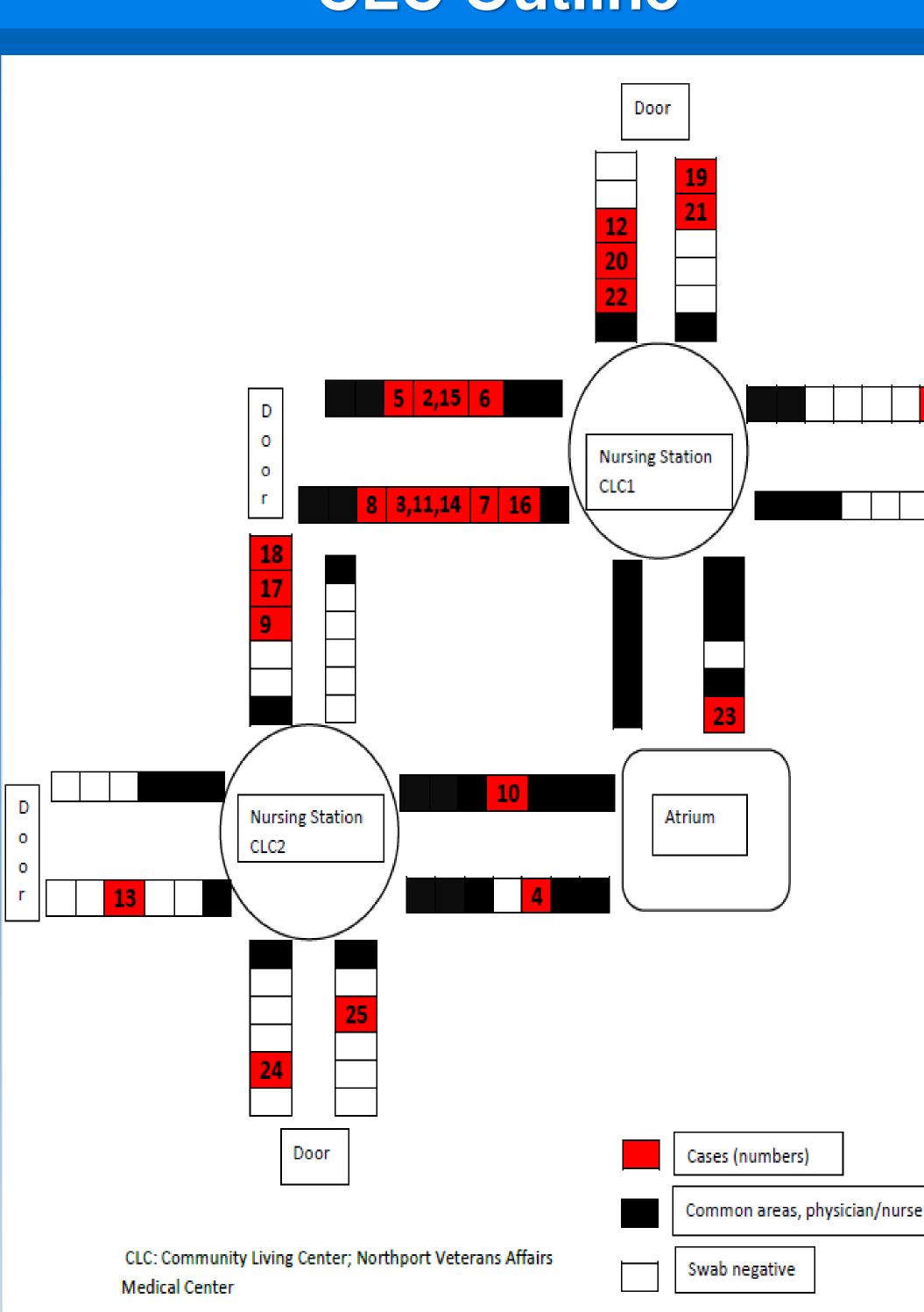


Background

Health care systems have been significantly overwhelmed during the SARS-CoV-2 (SC2) pandemic. Cases in the USA have exceeded 5 million with over 25% of deaths occurring in nursing homes and assisted living facilities. We describe our experience in controlling an outbreak in our Community Living Centers (CLC).

Methods and Materials

We retrospectively reviewed the charts of Veterans with positive nasopharyngeal (NP) RT-PCR for SC2 from March 24 to April 18, 2020 (Figure) in 2 neighboring CLC units (80 bed capacity), at Northport Affairs Medical Center.



CLC Outline

Halting a SARS-CoV-2 Outbreak in a Veterans Affairs Nursing Home G. Psevdos, MD, A. Papamanoli, MD, N Barrett RN, L Bailey RN, M Thorne RN, F Ford RN, Z Lobo MD. Infection Control and Division of Infectious Diseases, Northport Veteran Affairs Medical Center, Long Island NY



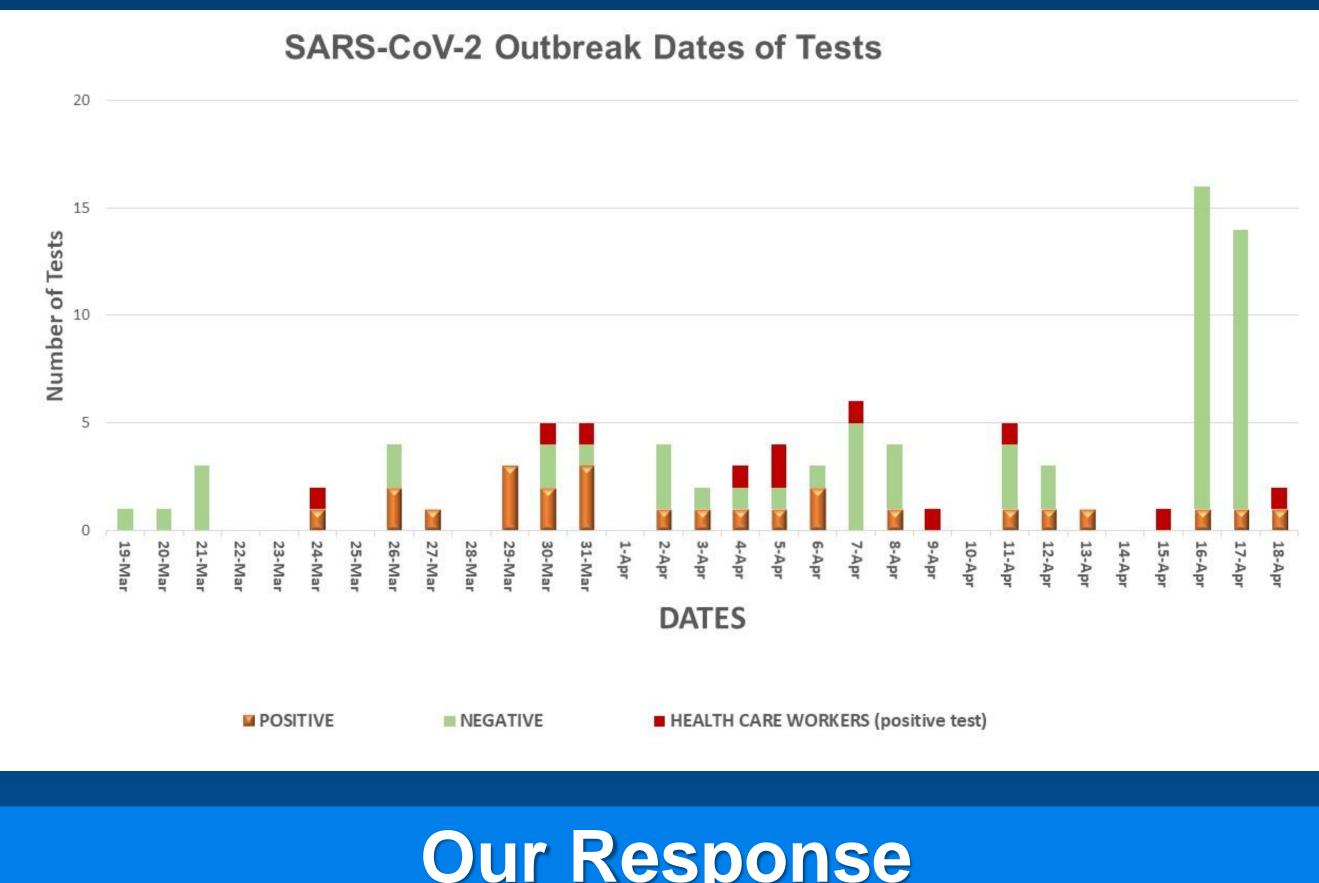
* Stony Brook Medicine

Results

- 25 Veterans tested positive for SARS-CoV-2 (Table)
- 5 Remained Asymptomatic
- 9 were hospitalized but no ICU admission
- ✤ 6 died; mortality rate 24%
- No co-infection with influenza or other viruses
- 11 health care workers tested positive

	COVID-19 RECOVERD	COVID-19	P value
	N =19	DECEASED N=6	
Median Age years(range)	77 (68-90)	73 (48-87)	0.10
Men	18	6	1.00
Caucasian	19	5	0.24
Cough, #	7	5	0.07
Dyspnea, #	1	4	0.00
Median Temp ⁰ F (range)	102 (99.4 - 104)	102.3 (97.5 – 104.6)	0.33
Median SBP mmHg, (range)	99 (93-112)	102 (77- 154)	0.24
Median Heart Rate bpm, (range)	81 (81 – 153)	102 (65 – 122)	0.03
Median Respiratory rate breaths/min	18 (19-29)	24 (15-26)	0.0
(range)			
BMI (range)	26 (13-29)	26 (19-41)	0.59
Oxygen saturation on Room Air,%	92 (84-96)	86 (70-92)	0.0
Diabetes, #	6	3	0.6
Hypertension, #	12	4	1.0
CHF, #	3	1	1.0
COPD, #	5	2	1.0
CAD, #	5	3	0.3
Hemodialysis, #	1	1	0.4
Number hospitalized	6	3	0.6
Hydroxychloroquine, #	11	3	1.0
Azithromycin, #	4	2	0.6
Doxycycline, #	6	3	0.6
Beta lactam antibiotics, #	5	3	0.3
Steroids given, #		1	0.3
History of ACEI/ARB use	0	1	1.0
Median SAPS II score	4 32	1	
		47	0.00
Median D-dimer on admission	1525 (497-3039)	399 (150-2226)	0.0
Median PEAK D-Dimer	2592 (887-3039)	465 (150-2339)	0.00
Median Procalcitonin on Admission	0.1	0.25	0.0
Median PEAK Procalcitonin	0.1	4.56	0.0
Median CRP mg/L on Admission	24	174	<0.0
Median PEAK CRP mg/L	49	188	0.0
Median Ferritin on Admission	136 (19-1500)	385 (249-1500)	0.1
Median PEAK Ferritin	216 (21-1500)	664 (385-1500)	0.0
Median White Blood Cells/mm3	5.3 (3.5 – 19.6)	6.4 (4.3 – 25.1)	0.2
Median Absolute Lymphocytes	1.2 (0.7 - 10.6)	0.7 (0.5 – 1.0)	0.3
Median Serum Creatinine	1.1 (0.7 – 6.6)	1.8 (0.8-6.3)	0.1
Median LDH	150 (89-279)	264 (199-320)	0.0
BLOOD TYPES:			
O POSITIVE	2	2	
O NEGATIVE	0	2	
A POSITIVE	2	2	
A NEGATIVE	0	2	
B NEGATIVE	0	1	
AB POSITIVE	1	4	
UNKNOWN	1	6	

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- of PPE that was saved for Ebola If PCR +, repeat PCR in 72hrs.

- Visits to our CLC prohibited Floating of staff minimized Internal group activities stopped Infection control: education on proper use of PPE, utilization Creation of COVID-19 Unit inside the CLC Mass testing of all residents and health care workers Removal of COVID restrictions: test method PCR. ✤ 13 patients remained PCR positive for 19-52 days ✤ 7/13 were tested and resulted positive for SC2 IgG

- SARS- CoV 2 can spread quickly in a Nursing home among residents and staff
- Controlling a SC2 outbreak in a nursing home poses a unique challenge
- Effective isolation & screening contributed in our success to halt the outbreak

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Our Response

Conclusion

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