COVID-19 percent positivity clusters, RR>=2.4, with specimen collection dates through November 19, 2020
Confirmed cases
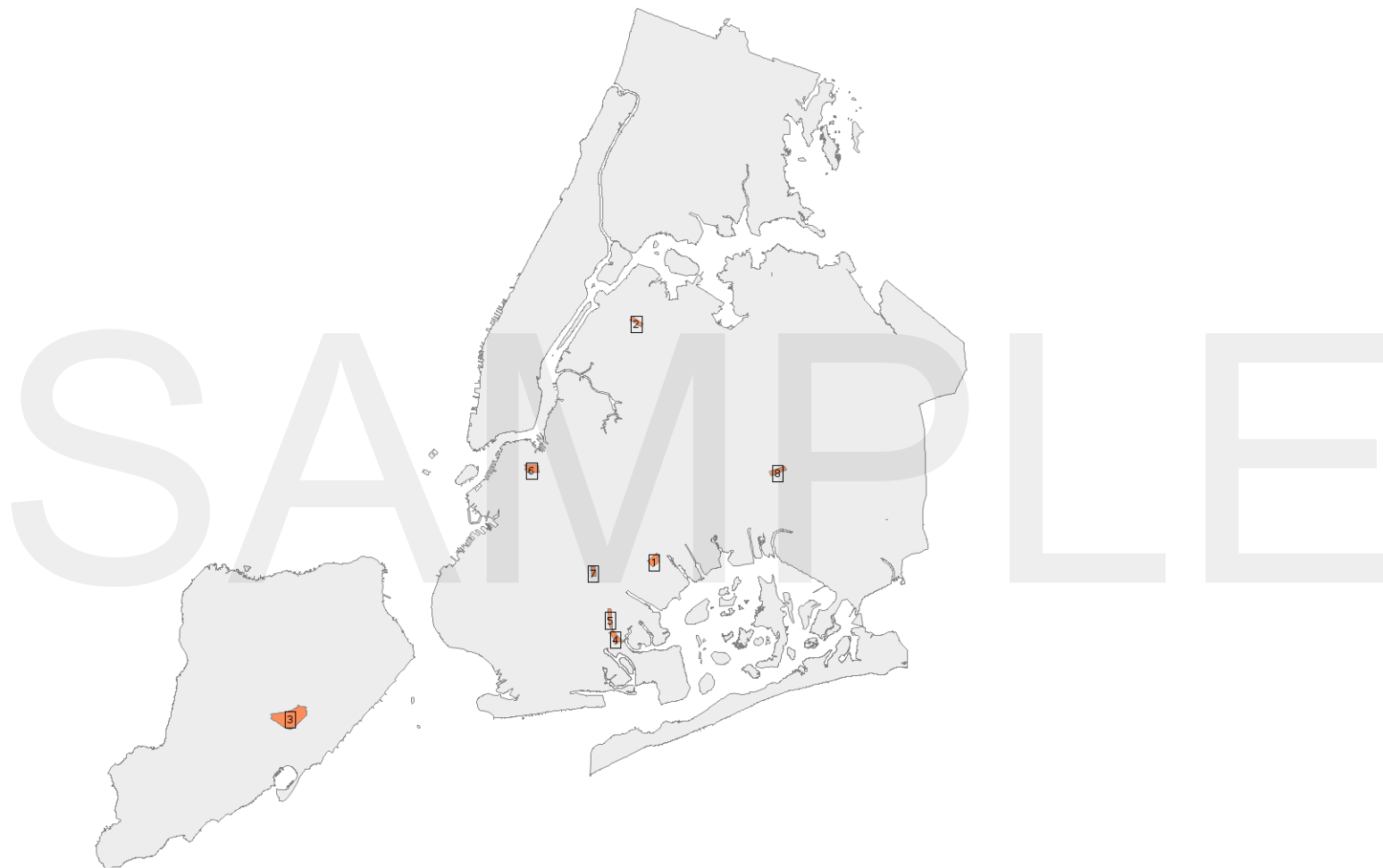
Statistic: Prospective space-time poisson-based scan statistic   Spatial resolution: census 2010 tracts   Study period: 63 days
Minimum temporal cluster size (days): 14   Maximum temporal cluster size (days): 21
Maximum spatial cluster size (% of persons tested): 50   Restrict clusters to relative risk >= 2.4
Inference method: Default p-value   Maximum number of Monte Carlo simulations: 999
Only recurrence interval >= 1 days are shown   Criteria for reporting secondary clusters: no cluster center in other clusters
Secondary clusters with no unique cases are displayed on the map but suppressed from cluster summary tables.
Time aggregation (days)= 1   Adjusted for space by day-of-week interaction= n
Adjusted for purely temporal variation non-parametrically

Cluster information
Cluster #1 is the most likely cluster, i.e. the cluster least likely to be due to chance

1º Cluster	2º Cluster	Centered in NOCC	Total Cases	Unique Cases	Start date	End date	# days in cluster	Radius (miles)	Radius (km)	Percent Positivity Inside Cluster	Percent Positivity Inside Cluster in past week	Observed over Expected	Recurrence interval (days)*
1		Canarsie	50	50	11/01/2020	11/19/2020	19	0.00	0.00	12.3%	10.8%	2.41	419
2		Astoria (North)	44	44	10/30/2020	11/19/2020	21	0.00	0.00	12.7%	14.8%	2.50	307
3		Richmond	46	46	10/30/2020	11/19/2020	21	0.00	0.00	12.4%	13.9%	2.43	287
4		Marine Park	34	34	10/30/2020	11/19/2020	21	0.00	0.00	14.2%	16.1%	2.80	226
5		Flatlands	30	30	11/06/2020	11/19/2020	14	0.00	0.00	12.6%	12.0%	2.44	29
6		Fort Greene	24	24	10/31/2020	11/19/2020	20	0.00	0.00	13.5%	16.5%	2.64	21
7		East Flatbush (South)	20	20	11/02/2020	11/19/2020	18	0.00	0.00	13.8%	14.5%	2.70	10
8		Richmond Hill	23	23	11/03/2020	11/19/2020	17	0.00	0.00	12.4%	16.0%	2.42	8

*Recurrence interval represents the expected length of follow-up required to see one cluster at least as unusual as the observed cluster by chance.
Secondary clusters are defined as having no cluster center in another cluster. Secondary clusters with no unique cases are displayed on the map but suppressed from cluster summary tables.

Demographic summary by cluster:

	Cluster 1	Cluster 2	Cluster 3	Cluster 4	Cluster 5	Cluster 6	Cluster 7	Cluster 8
Number of Persons Newly Tested	406	346	372	239	239	178	145	186
Total Cases	50	44	46	34	30	24	20	23
Unique Cases	50	44	46	34	30	24	20	23
Percent Positivity Inside Cluster	12.3%	12.7%	12.4%	14.2%	12.6%	13.5%	13.8%	12.4%
Percent Positivity Inside Cluster for prior 4 weeks at 1-week lag (10/18-11/15)	10.9%	10.8%	9.8%	11.0%	9.4%	11.2%	12.3%	9.9%
Percent Positivity Outside Cluster	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%
Median Age (Range)	43.5 (0-98)	40 (2-89)	40 (2-94)	43.5 (9-75)	34 (3-73)	36 (6-80)	38 (15-87)	41 (2-87)
Age Group								
- 0 to 17	9 (18%)	6 (14%)	8 (18%)	5 (15%)	5 (17%)	4 (17%)	1 (5%)	1 (4%)
- 18 to 44	17 (34%)	19 (44%)	16 (36%)	15 (44%)	17 (59%)	11 (48%)	11 (58%)	11 (48%)
- 45 to 64	14 (28%)	10 (23%)	12 (27%)	11 (32%)	4 (14%)	4 (17%)	6 (32%)	5 (22%)
- 65 to 74	7 (14%)	4 (9%)	3 (7%)	2 (6%)	3 (10%)	3 (13%)	0 (0%)	4 (17%)
- 75 and over	3 (6%)	4 (9%)	6 (13%)	1 (3%)	0 (0%)	1 (4%)	1 (5%)	2 (9%)
- Unknown	0	1	1	0	1	1	1	0
Sex								
- Female	23 (47%)	24 (56%)	25 (57%)	16 (47%)	16 (55%)	10 (43%)	8 (42%)	11 (48%)
- Male	26 (53%)	19 (44%)	19 (43%)	18 (53%)	13 (45%)	13 (57%)	11 (58%)	12 (52%)
- Unknown	1	1	2	0	1	1	1	0
Race/Ethnicity								
- Hispanic/Latinx	8 (24%)	6 (21%)	6 (21%)	9 (45%)	4 (24%)	7 (54%)	5 (45%)	5 (38%)
- Black/African American	7 (21%)	7 (24%)	6 (21%)	4 (20%)	6 (35%)	2 (15%)	2 (18%)	3 (23%)
- Asian/Pacific Islander	8 (24%)	6 (21%)	6 (21%)	3 (15%)	2 (12%)	1 (8%)	1 (9%)	2 (15%)
- White	10 (30%)	10 (34%)	10 (34%)	4 (20%)	5 (29%)	2 (15%)	3 (27%)	3 (23%)
- Other	0 (0%)	0 (0%)	1 (3%)	0 (0%)	0 (0%)	1 (8%)	0 (0%)	0 (0%)
- Unknown	17 (34%)	15 (34%)	17 (37%)	14 (41%)	13 (43%)	11 (46%)	9 (45%)	10 (43%)
Symptomatic								
- Yes	4 (80%)	1 (50%)	4 (100%)	1 (100%)	0 (0%)	1 (100%)	2 (100%)	2 (100%)
- No	1 (20%)	1 (50%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
- Unknown	45 (90%)	42 (95%)	42 (91%)	33 (97%)	30 (100%)	23 (96%)	18 (90%)	21 (91%)
Interview Status								
- Complete	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
- Pending	50 (100%)	44 (100%)	45 (98%)	34 (100%)	30 (100%)	24 (100%)	20 (100%)	23 (100%)
- Not Interviewed	0 (0%)	0 (0%)	1 (2%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)

The denominator for demographic percentages is restricted to cases with known (not missing) values,except for % unknown for race/ethnicity and symptomatic, the denominator is all cluster cases.

Cluster 1 - Canarsie

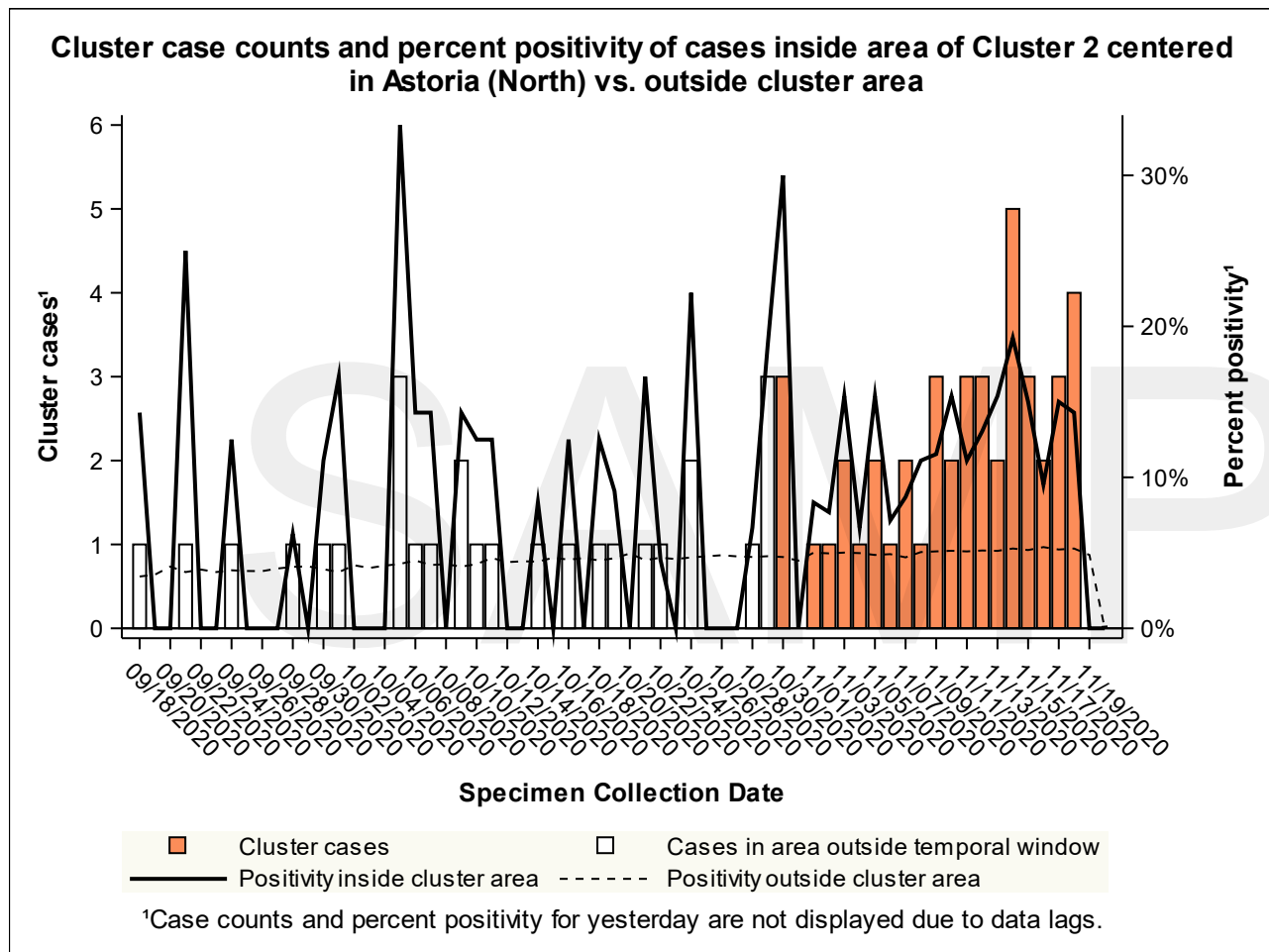**Cluster case counts and percent positivity of cases inside area of Cluster 1 centered in Canarsie vs. outside cluster area**

Cluster case counts and percent positivity of cases inside area of Cluster 1 centered in Canarsie vs. outside cluster area

Legend:
- Cluster cases
- Cases in area outside temporal window
- Positivity inside cluster area
- Positivity outside cluster area
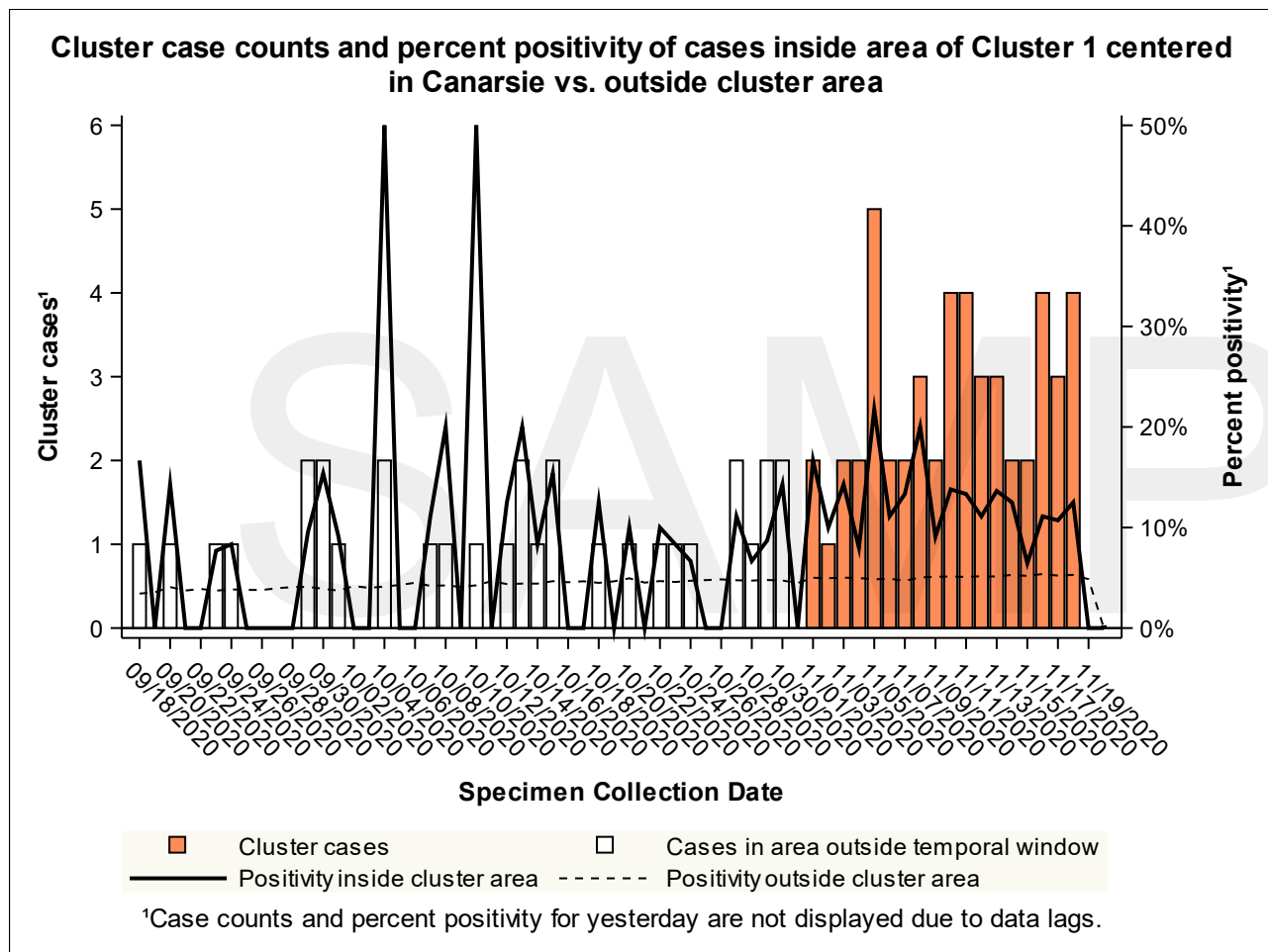
[1]Case counts and percent positivity for yesterday are not displayed due to data lags.

Cluster 2 - Astoria (North)

Cluster case counts and percent positivity of cases inside area of Cluster 2 centered in Astoria (North) vs. outside cluster area
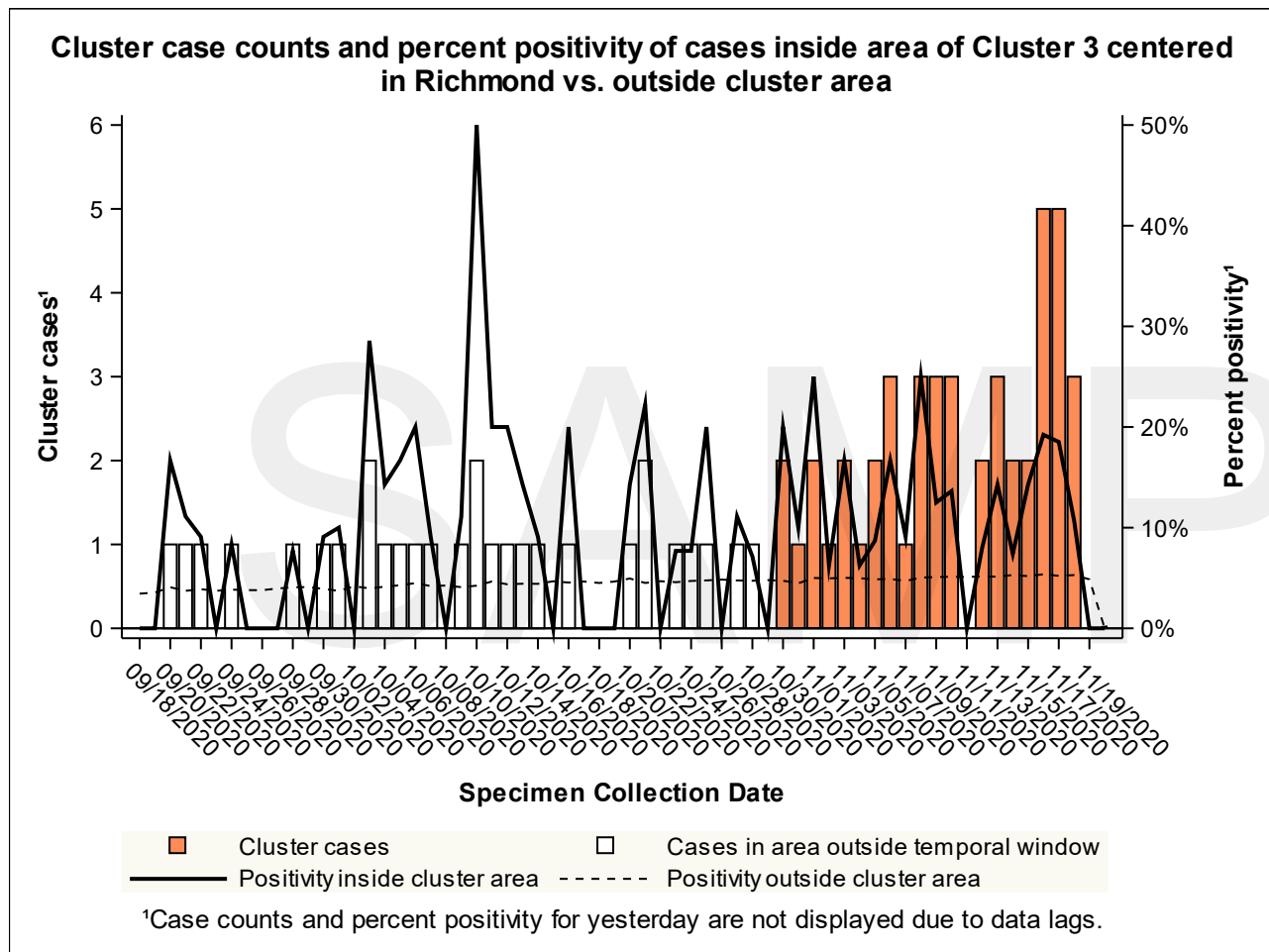

Cluster case counts and percent positivity of cases inside area of Cluster 2 centered in Astoria (North) vs. outside cluster area

[1]Case counts and percent positivity for yesterday are not displayed due to data lags.

Cluster 3 - Richmond

Cluster case counts and percent positivity of cases inside area of Cluster 3 centered in Richmond vs. outside cluster area
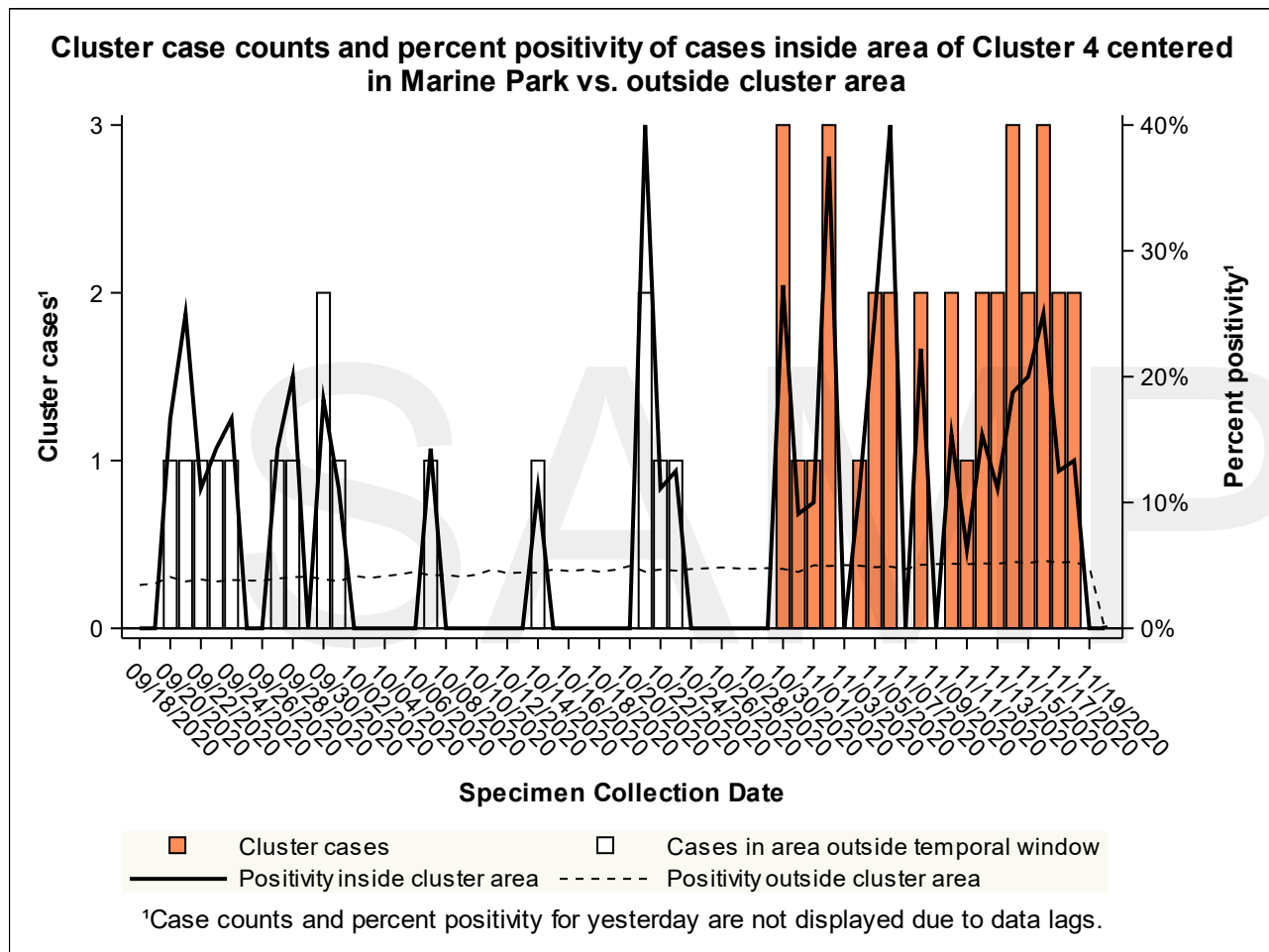

Cluster case counts and percent positivity of cases inside area of Cluster 3 centered in Richmond vs. outside cluster area

[1]Case counts and percent positivity for yesterday are not displayed due to data lags.

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Cluster 4 - Marine Park

Cluster case counts and percent positivity of cases inside area of Cluster 4 centered in Marine Park vs. outside cluster area
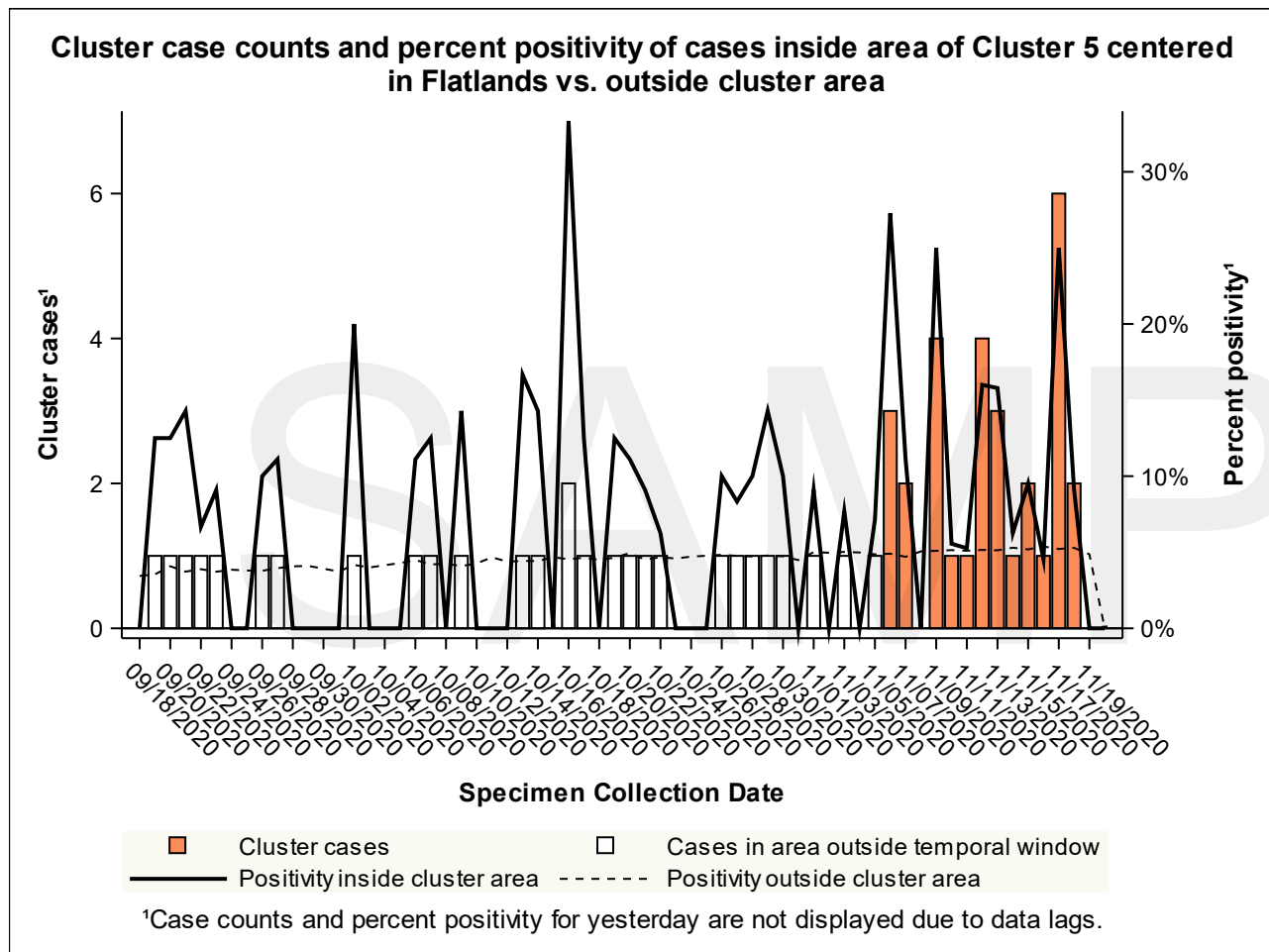

Cluster case counts and percent positivity of cases inside area of Cluster 4 centered in Marine Park vs. outside cluster area

Specimen Collection Date

- ■ Cluster cases
- □ Cases in area outside temporal window
- —— Positivity inside cluster area
- - - - Positivity outside cluster area

[1]Case counts and percent positivity for yesterday are not displayed due to data lags.

[1]Case counts and percent positivity for yesterday are not displayed due to data lags.

Cluster 5 - Flatlands

Cluster case counts and percent positivity of cases inside area of Cluster 5 centered in Flatlands vs. outside cluster area
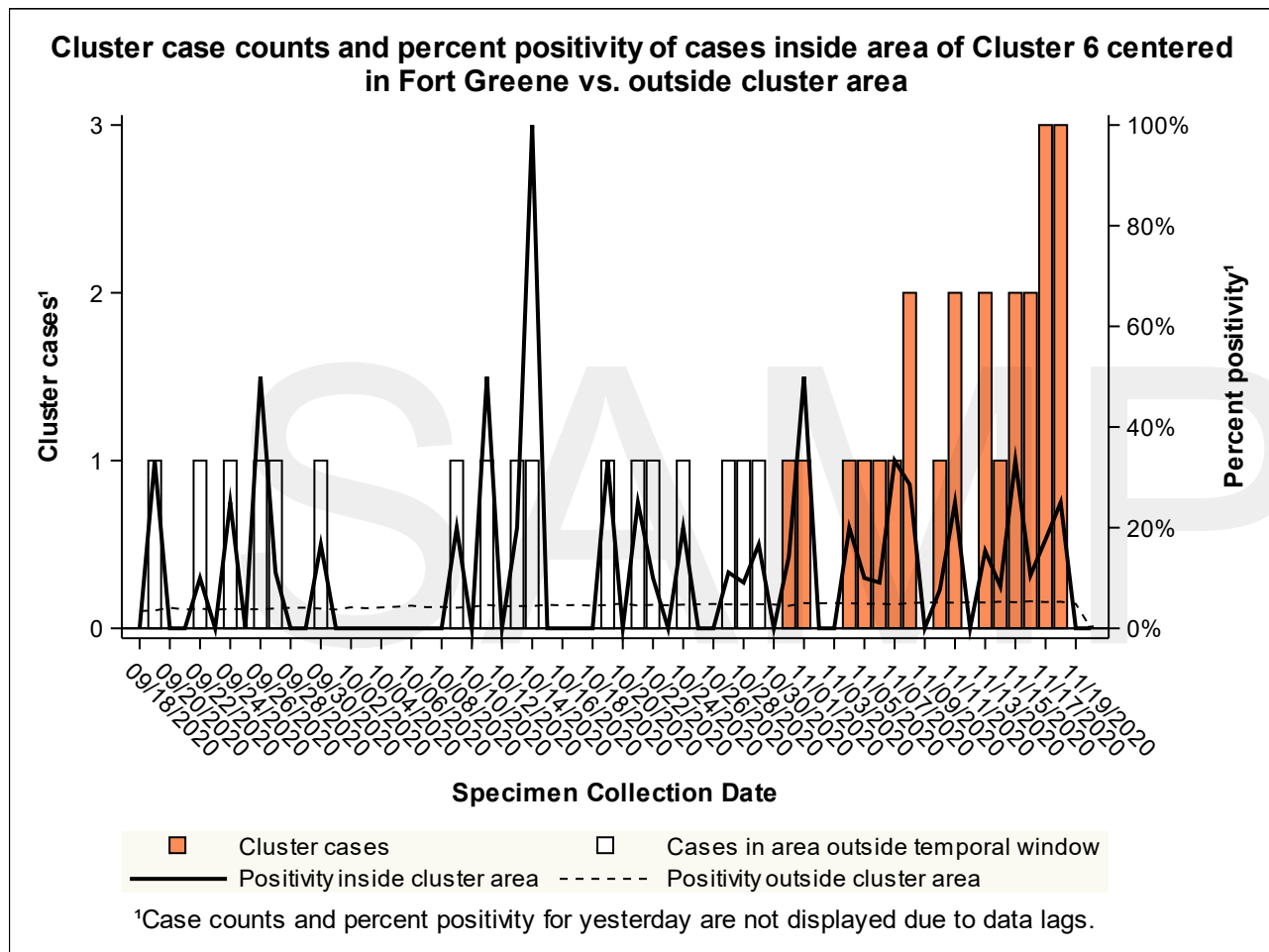

Cluster case counts and percent positivity of cases inside area of Cluster 5 centered in Flatlands vs. outside cluster area

Legend:
- Cluster cases
- Cases in area outside temporal window
- Positivity inside cluster area
- Positivity outside cluster area

[1]Case counts and percent positivity for yesterday are not displayed due to data lags.

[1]Case counts and percent positivity for yesterday are not displayed due to data lags.

Cluster 6 - Fort Greene

Cluster case counts and percent positivity of cases inside area of Cluster 6 centered in Fort Greene vs. outside cluster area
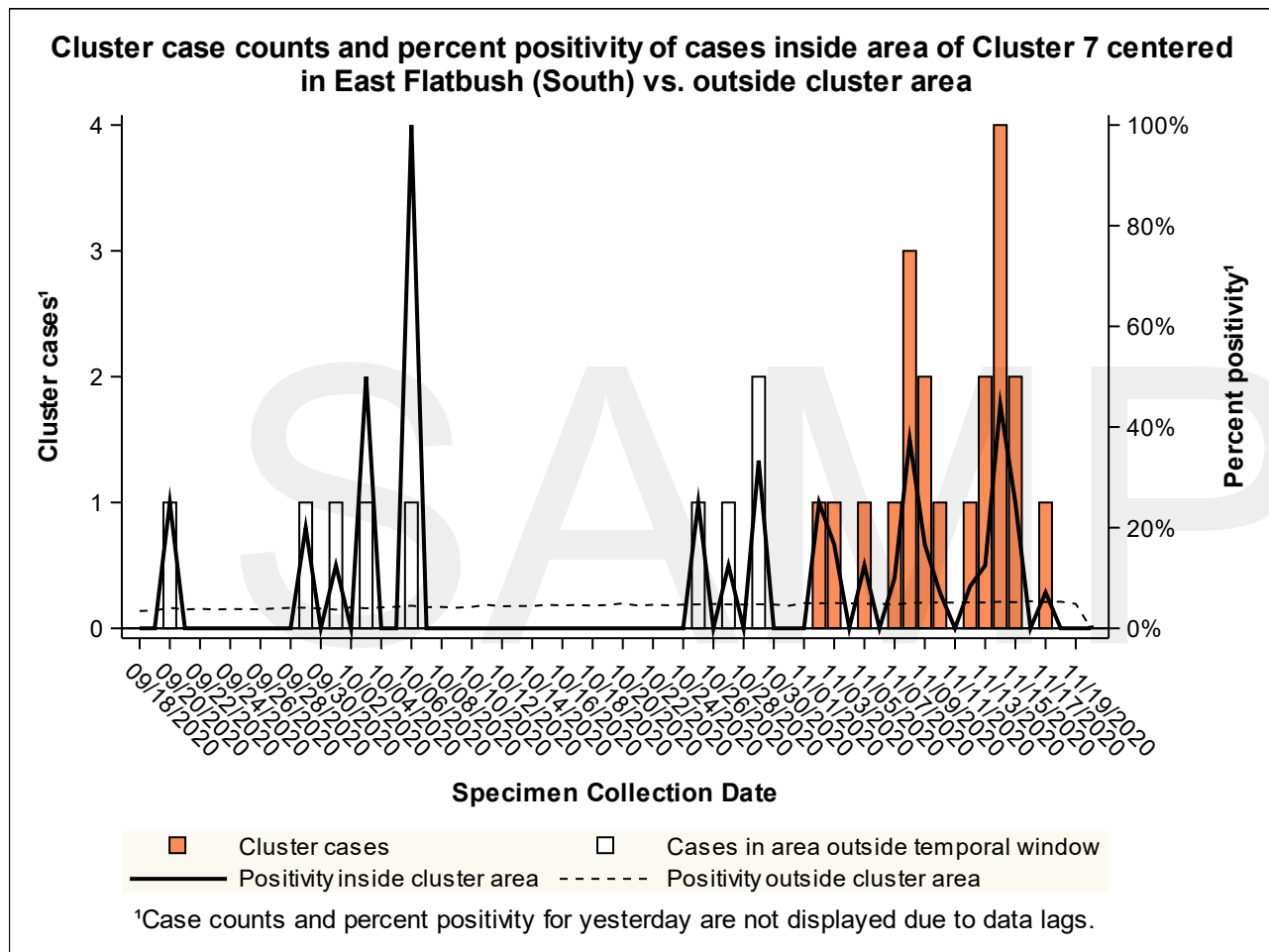

Cluster case counts and percent positivity of cases inside area of Cluster 6 centered in Fort Greene vs. outside cluster area

[1]Case counts and percent positivity for yesterday are not displayed due to data lags.

Cluster 7 - East Flatbush (South)

Cluster case counts and percent positivity of cases inside area of Cluster 7 centered in East Flatbush (South) vs. outside cluster area
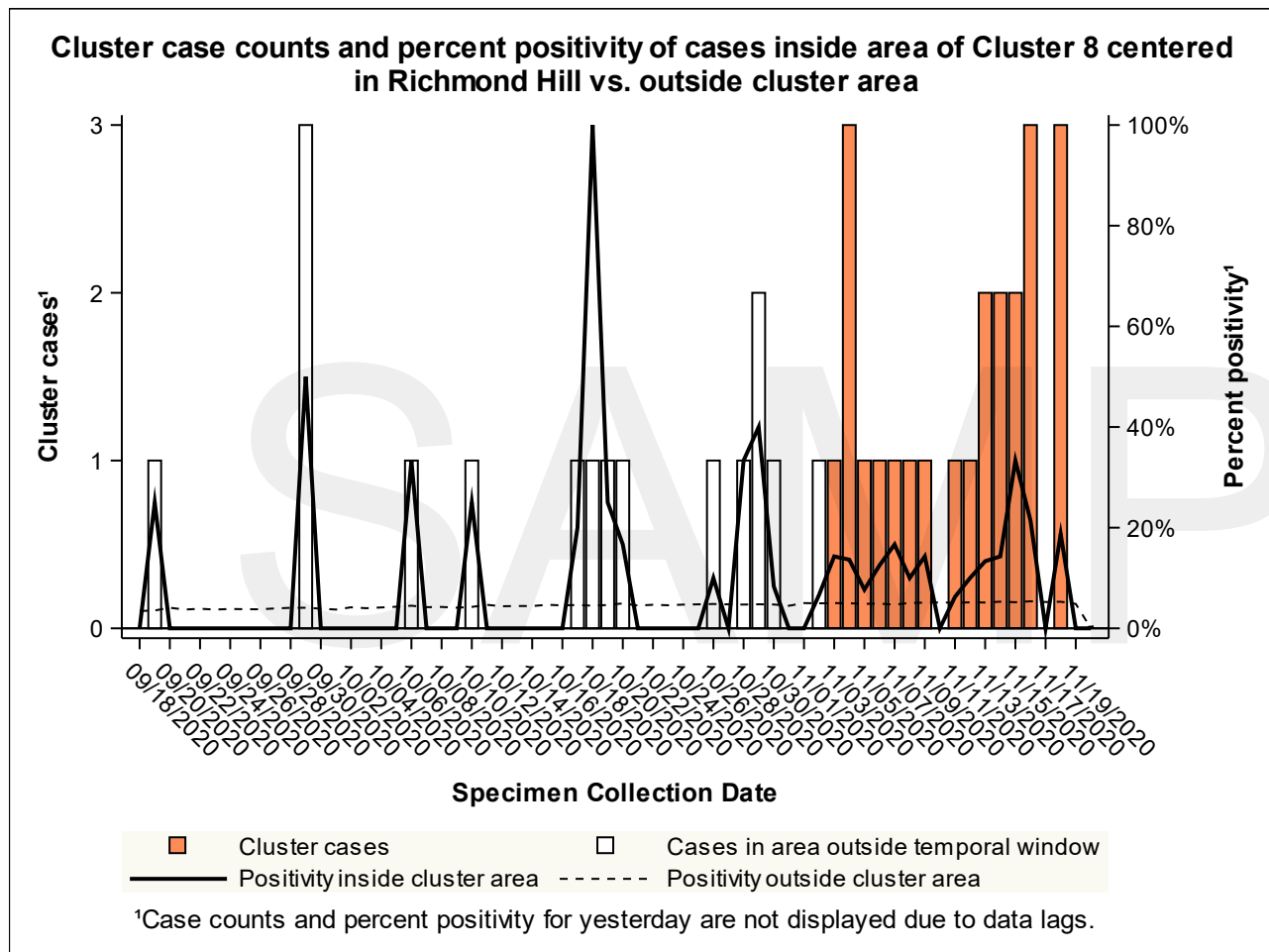

Cluster case counts and percent positivity of cases inside area of Cluster 7 centered in East Flatbush (South) vs. outside cluster area

[1]Case counts and percent positivity for yesterday are not displayed due to data lags.

Cluster 8 - Richmond Hill

Cluster case counts and percent positivity of cases inside area of Cluster 8 centered in Richmond Hill vs. outside cluster area

Cluster case counts and percent positivity of cases inside area of Cluster 8 centered in Richmond Hill vs. outside cluster area

[1]Case counts and percent positivity for yesterday are not displayed due to data lags.

[1]Case counts and percent positivity for yesterday are not displayed due to data lags.