Vaccine Equity Group 1

Sponsor: BU Spark!

Client: Dr. Julia Koehler

Leland Ling, Kristi Li, Brian Tao, Yu Yan

Link to Presentation Video (Google Drive Link)

https://drive.google.com/drive/folders/1uhhE9Vfb0krBmlLahcwcDLfvMWaMiNOD

Goals and Background

Goals

- To find disparities within vaccination rollout within the communities of Everett, Springfield, Newton, Wellesley, Chelsea, and Revere
    - Whether wealthier regions have access before poorer regions
- To find if Grassroots Organizations have significant impact to vaccination rollout

Background needed:

- Less represented minority groups generally get the shorthand of the stick
- La Colaborativa has been working in Chelsea since the beginning of Covid, supporting their community. We want to see what kind of effect visually they have on vaccination rollout.
- Scope of looking at both age data and racial data is too large, we are focused on racial data - Group 2 is looking at age data.

Dataset Preliminary Analysis and Data manipulation

Using T test, we found that the data between cities and races is significantly different as p value significantly lower than 0.05 when comparing them to each other.

Earlier times are missing 2 booster vaccinations
- booster is not out yet - so no change as of now, need to consider these time periods as completely separate

Older times: missing partially vaccinated
- Filled out with one dose - fully vaccinated

Missing infant data for most times
- Filled out missing data as 0

In the County/City Age, the partially_vaccinated data of Wellesley city from line 2396 to 2403 seems to be shifted up by one row, so we shifted them down by one row.

Timeline

We split up the timeline into 5 parts - early, mid, late vaccine rollout, booster one rollout, booster two rollout.

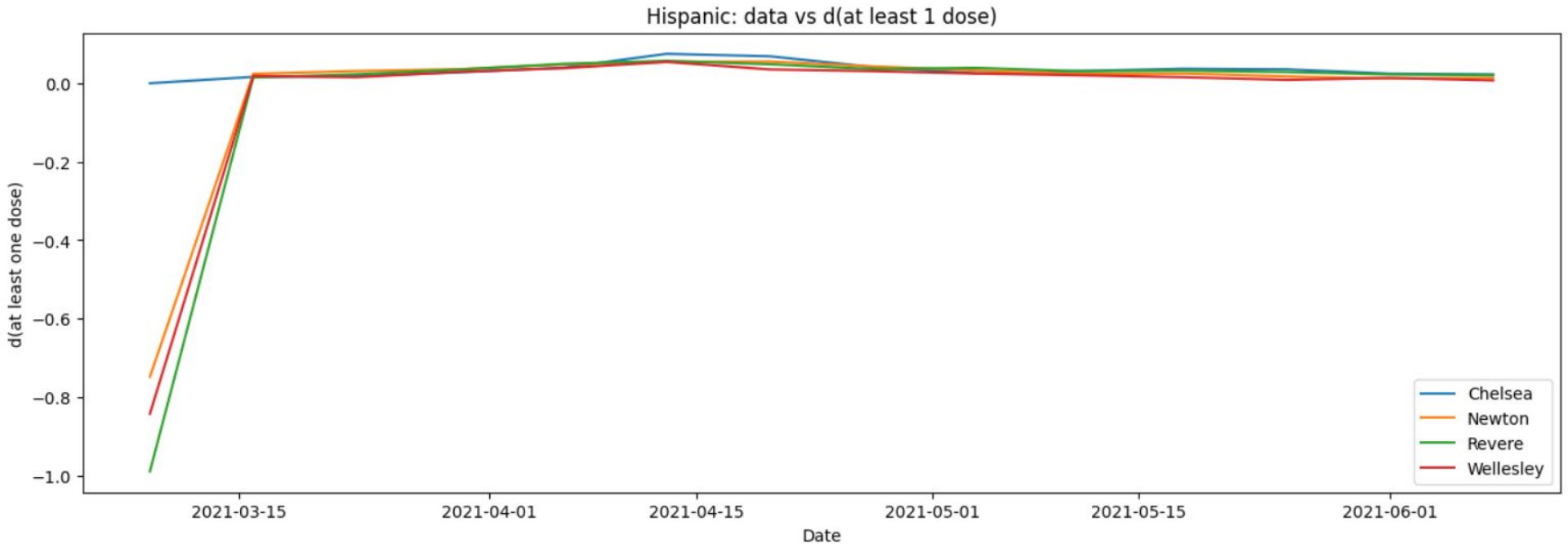
Early mid and late vaccine rollout time intervals were calculated by splitting the timeline from the beginning of the data to booster one rollout into thirds.

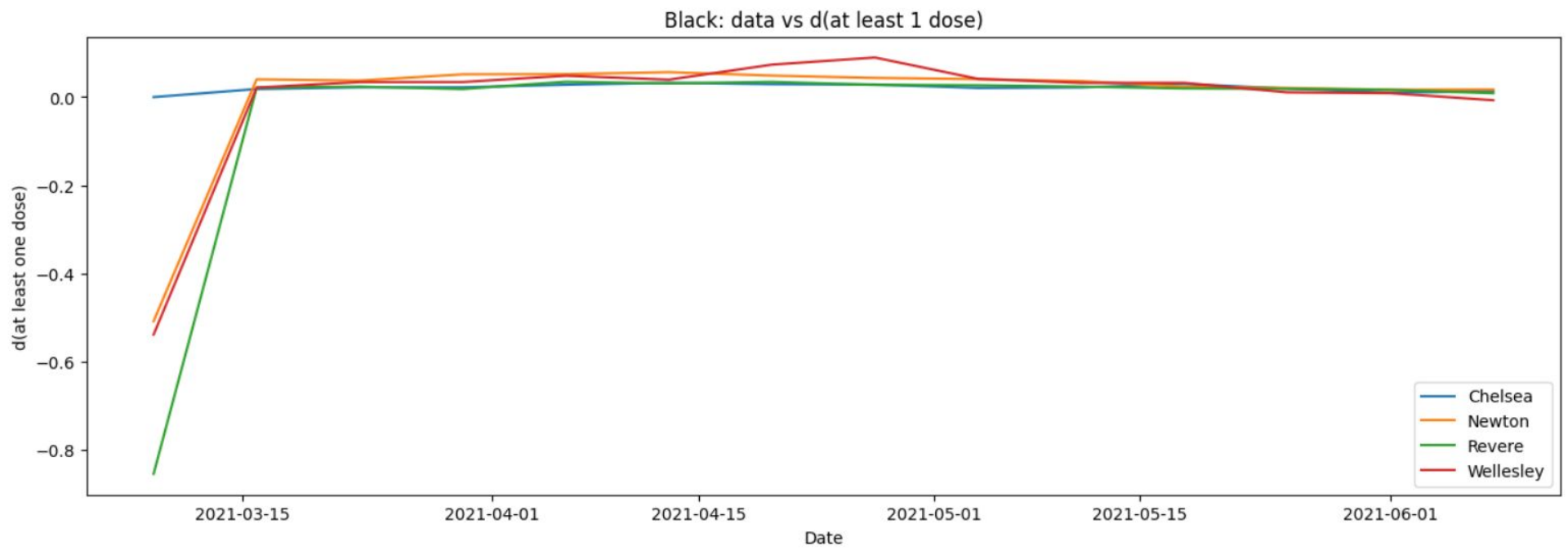
Booster one rollout ends when booster two rollout begins.

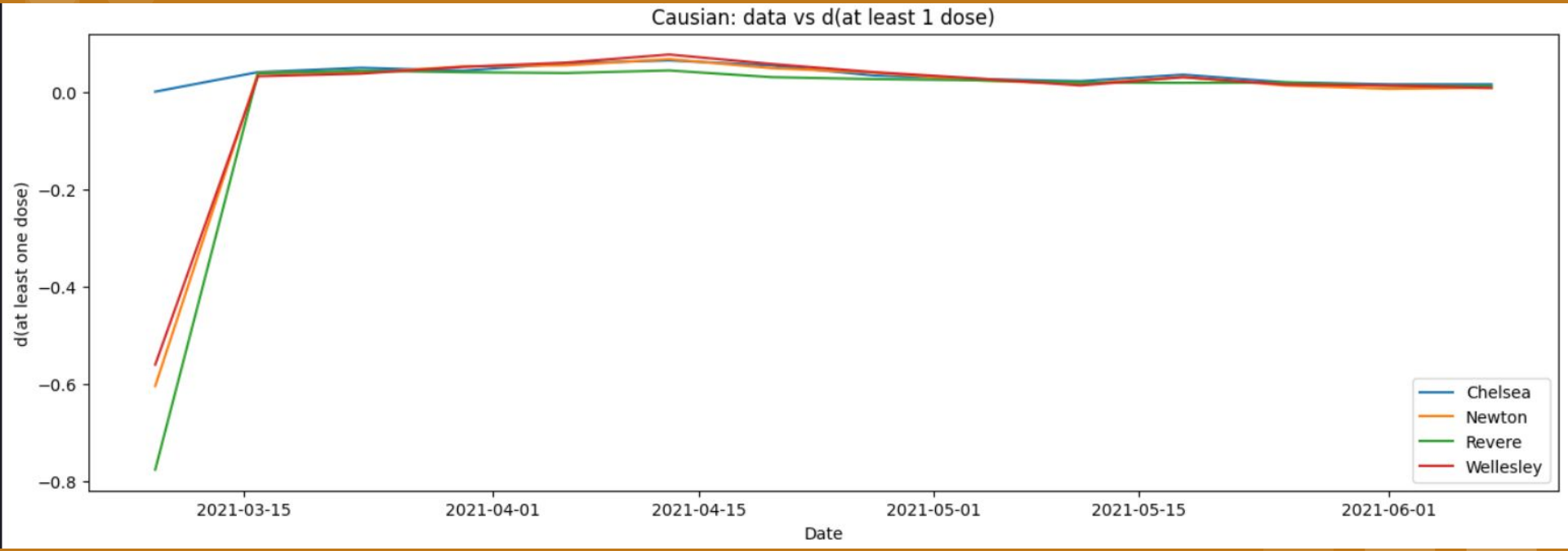
Data vs. Rate of At Least 1 Dose by Region

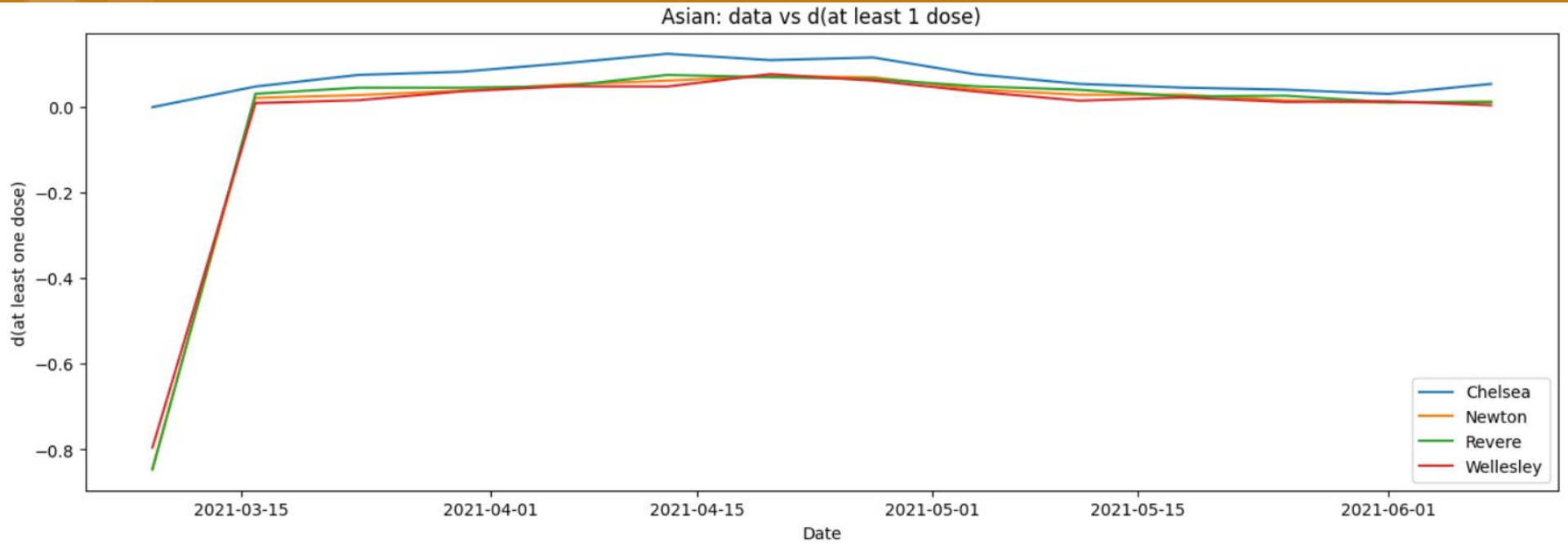
Each line corresponds to a region, and each graph corresponds to a race.

Early Vaccine Rollout

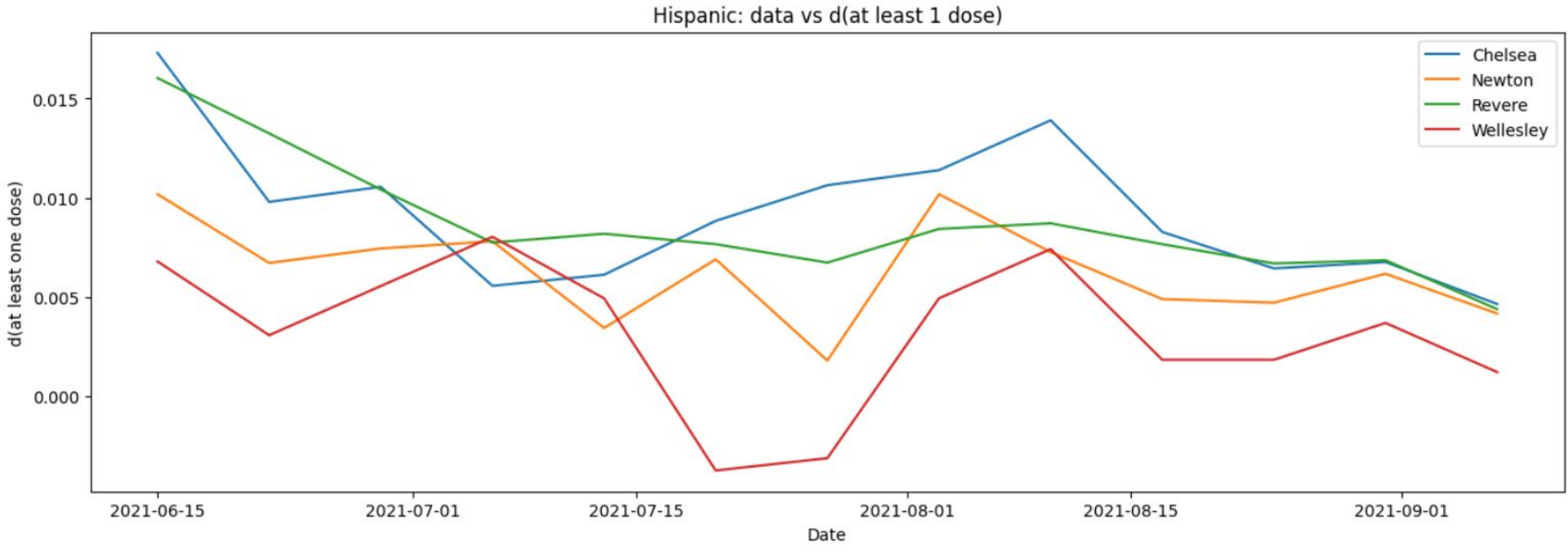


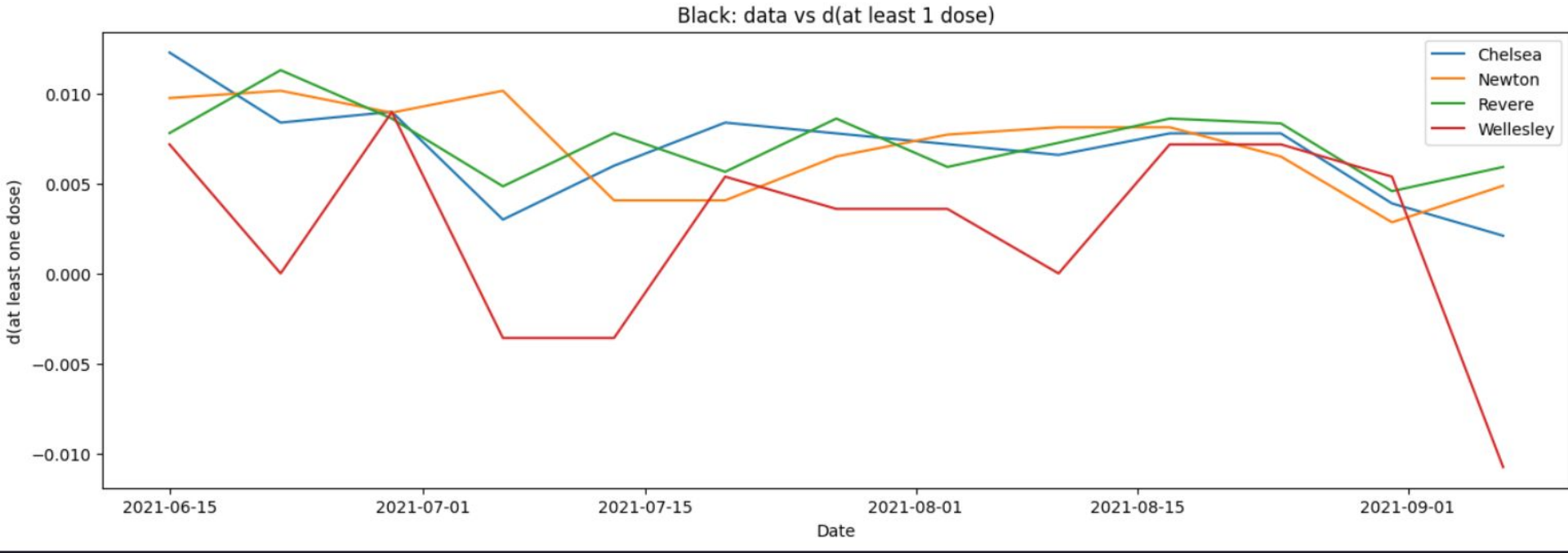

Black: data vs d(at least 1 dose)
d(at least one dose)
0.0
−0.2
−0.4
−0.6
−0.8
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
2021-06-01
Date
Chelsea
Newton
Revere
Wellesley

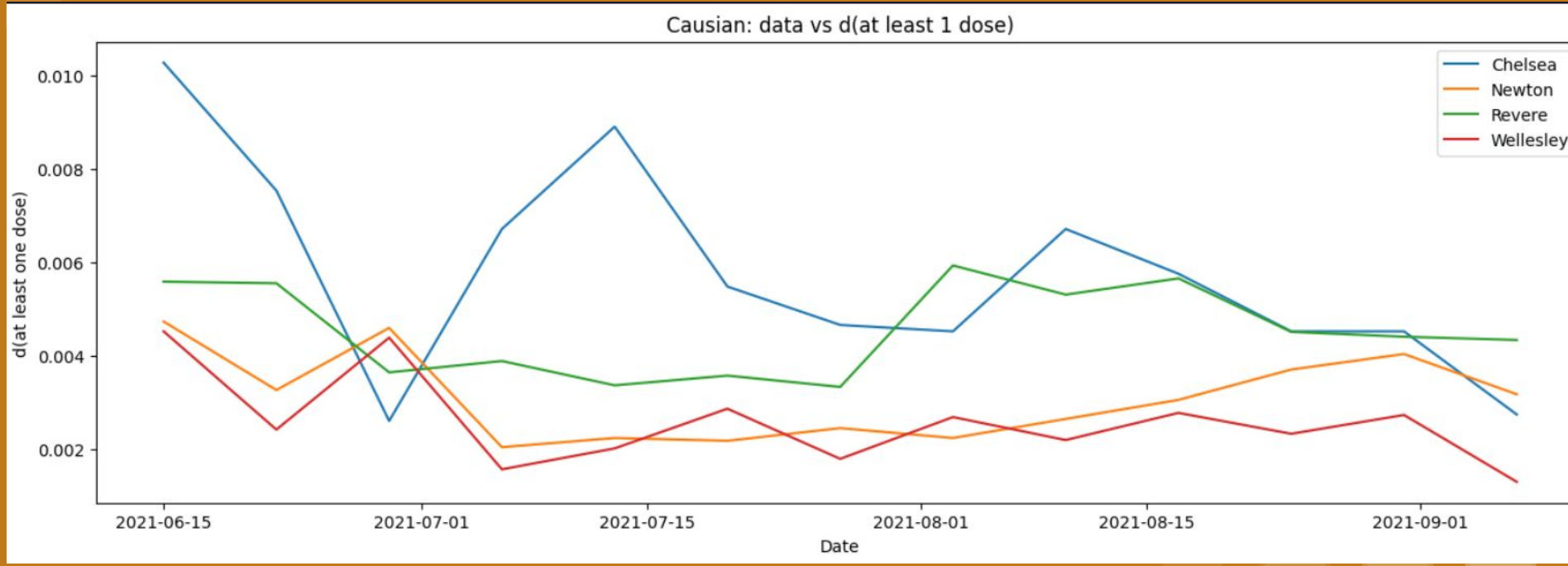

Causian: data vs d(at least 1 dose)
d(at least one dose)
0.0
−0.2
−0.4
−0.6
−0.8
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
2021-06-01
Date
Chelsea
Newton
Revere
Wellesley

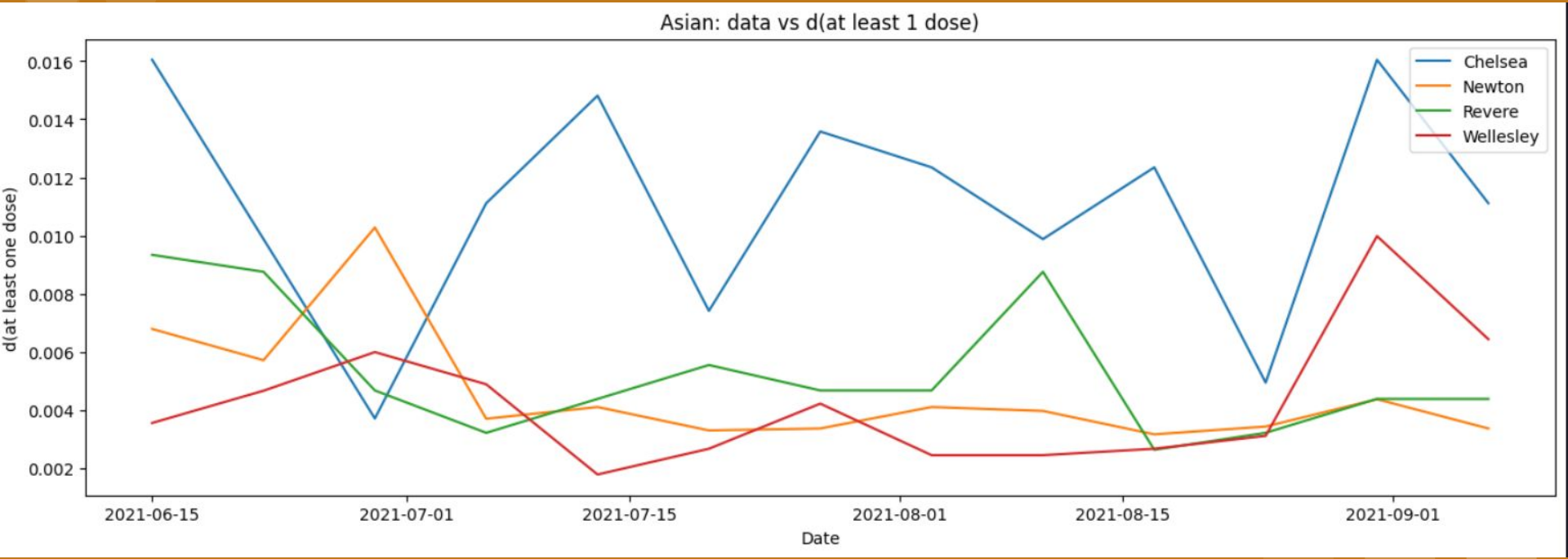

Asian: data vs d(at least 1 dose)
d(at least one dose)
0.0
−0.2
−0.4
−0.6
−0.8
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
2021-06-01
Date
Chelsea
Newton
Revere
Wellesley

Middle Vaccine Rollout

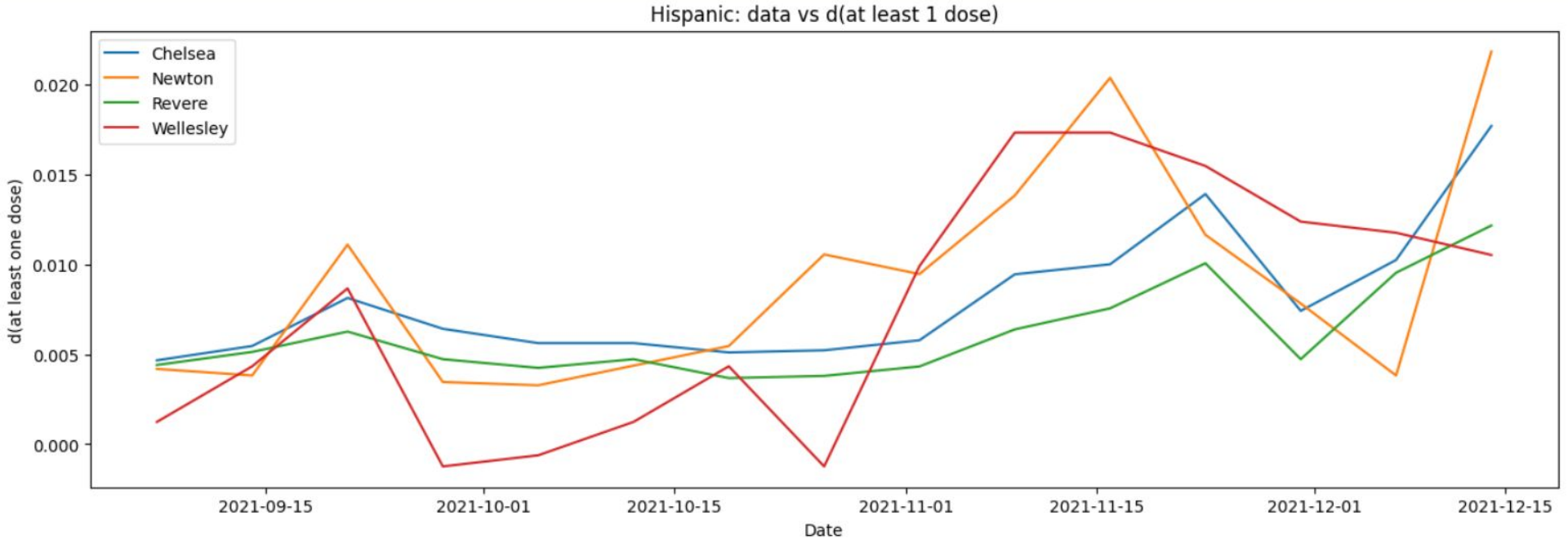


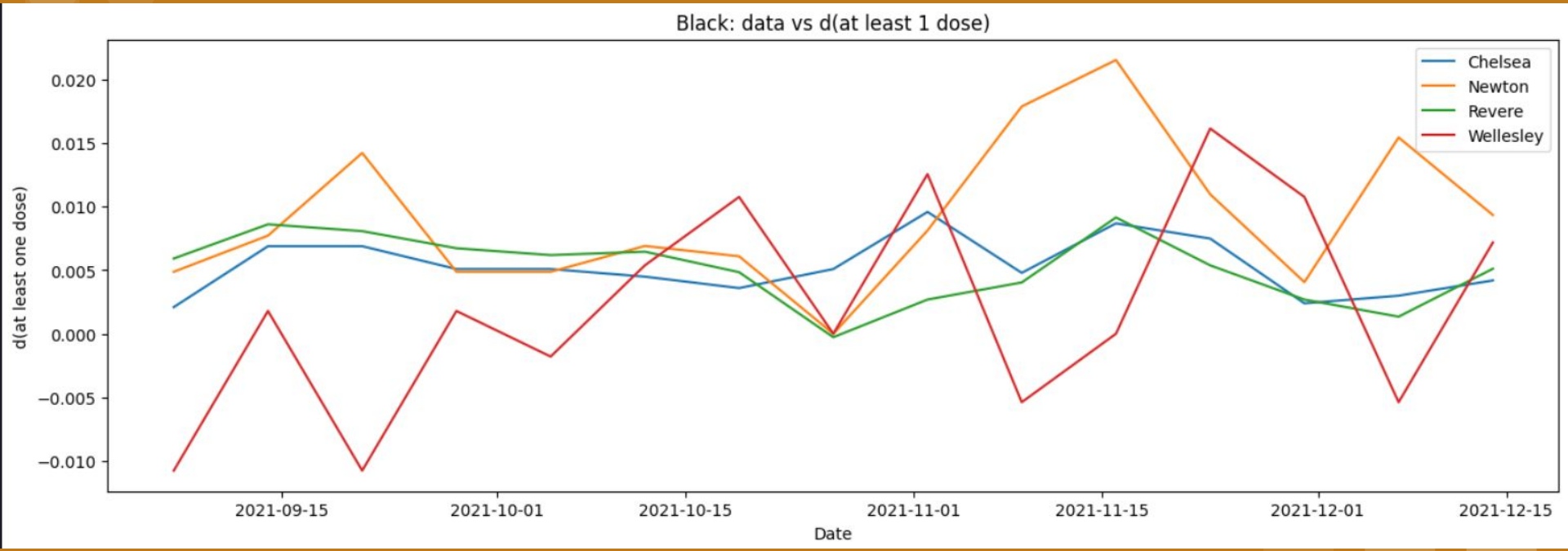

Black: data vs d(at least 1 dose)
Chelsea
Newton
Revere
Wellesley
0.010
0.005
0.000
−0.005
−0.010
d(at least one dose)
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date

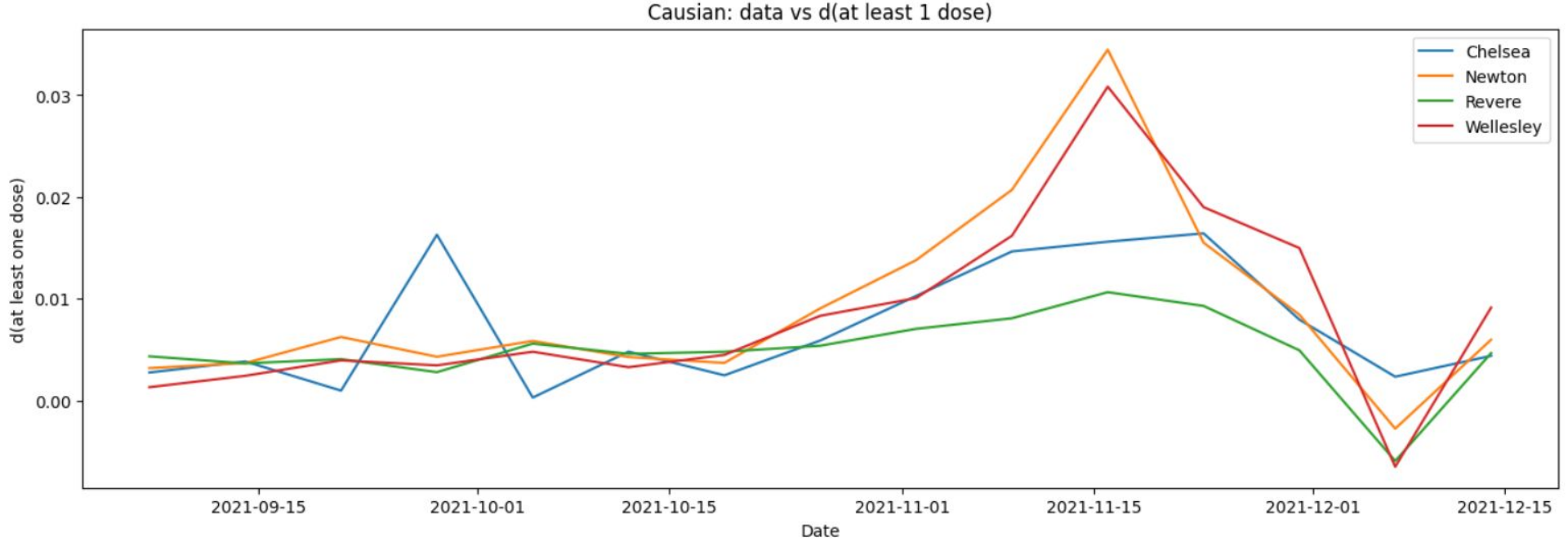

Causian: data vs d(at least 1 dose)
d(at least one dose)
0.010
0.008
0.006
0.004
0.002
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date
Chelsea
Newton
Revere
Wellesley

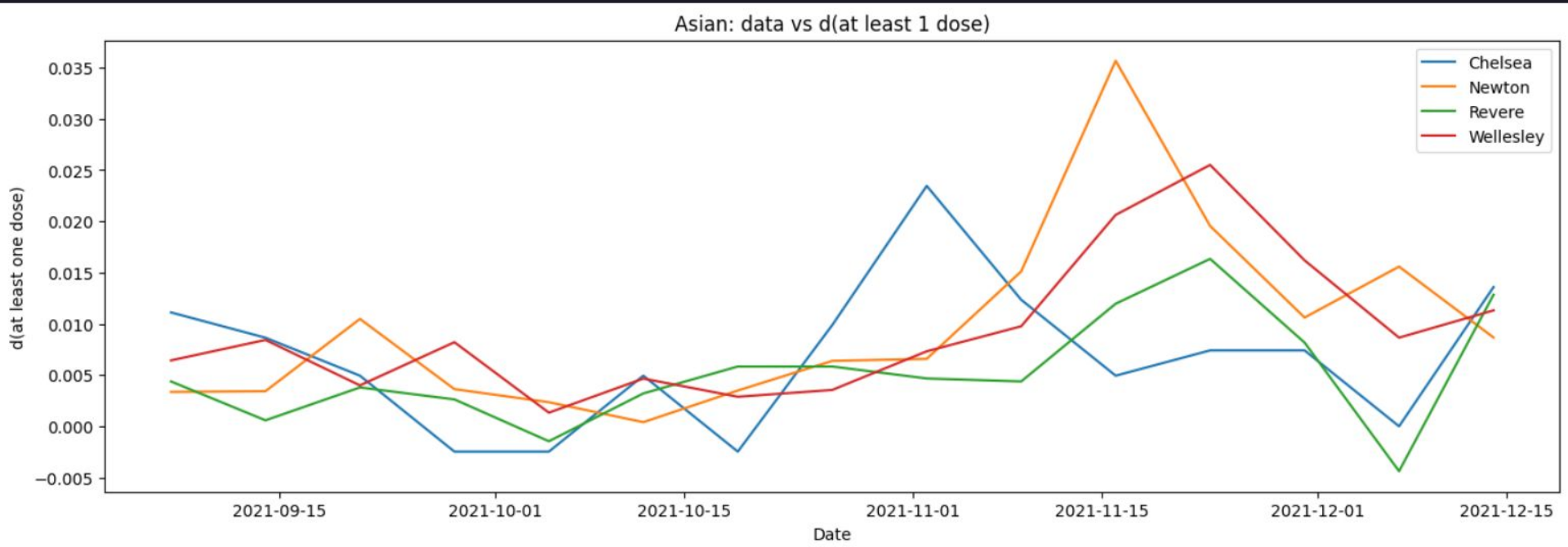

Asian: data vs d(at least 1 dose)
d(at least one dose)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date
Chelsea
Newton
Revere
Wellesley

Late Vaccine Rollout

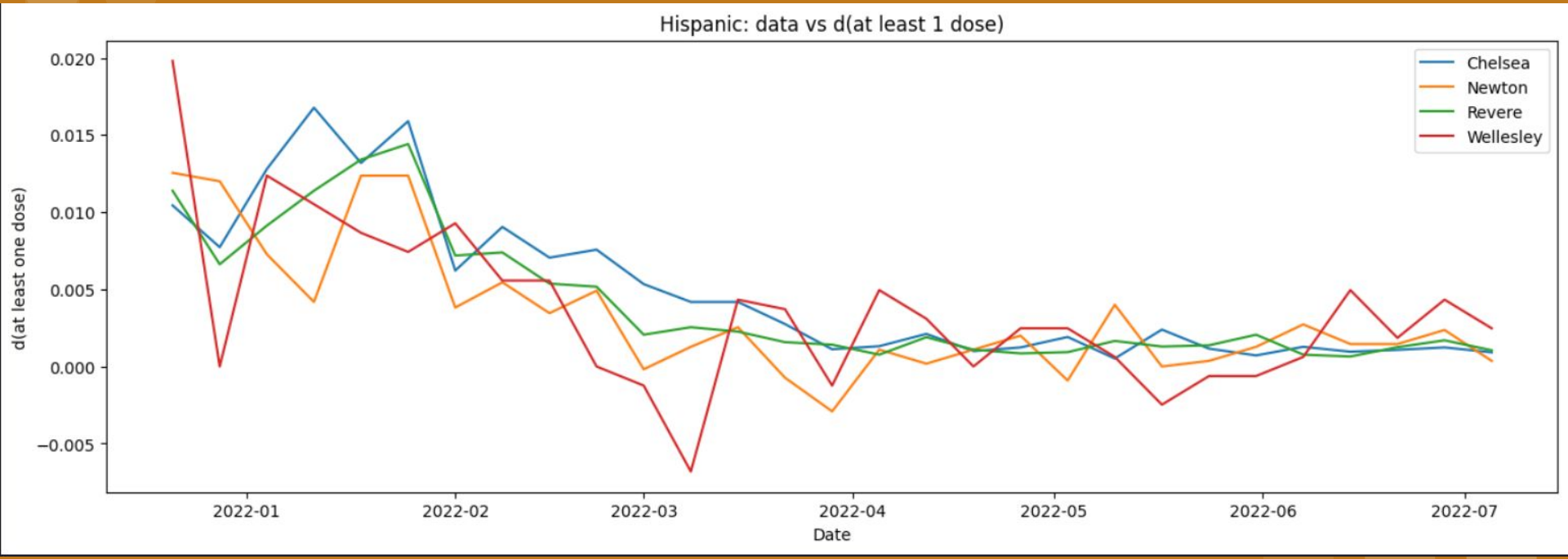


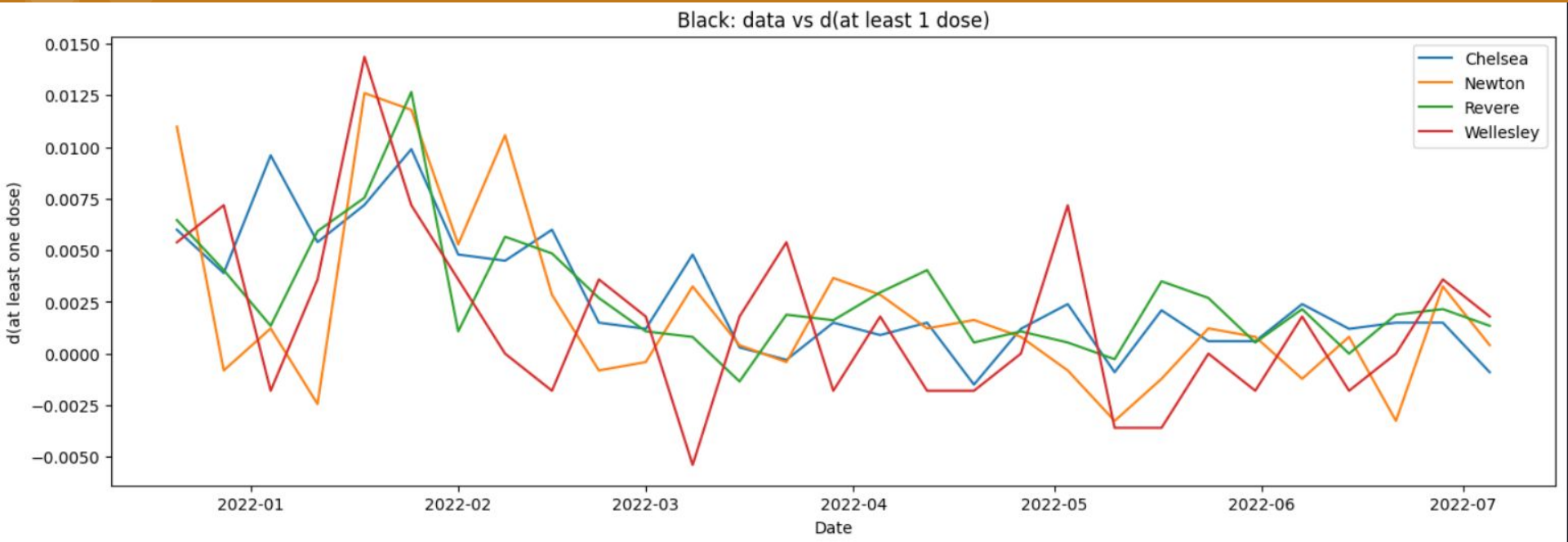

Black: data vs d(at least 1 dose)
Chelsea
Newton
Revere
Wellesley
0.020
0.015
0.010
0.005
0.000
−0.005
−0.010
d(at least one dose)
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date

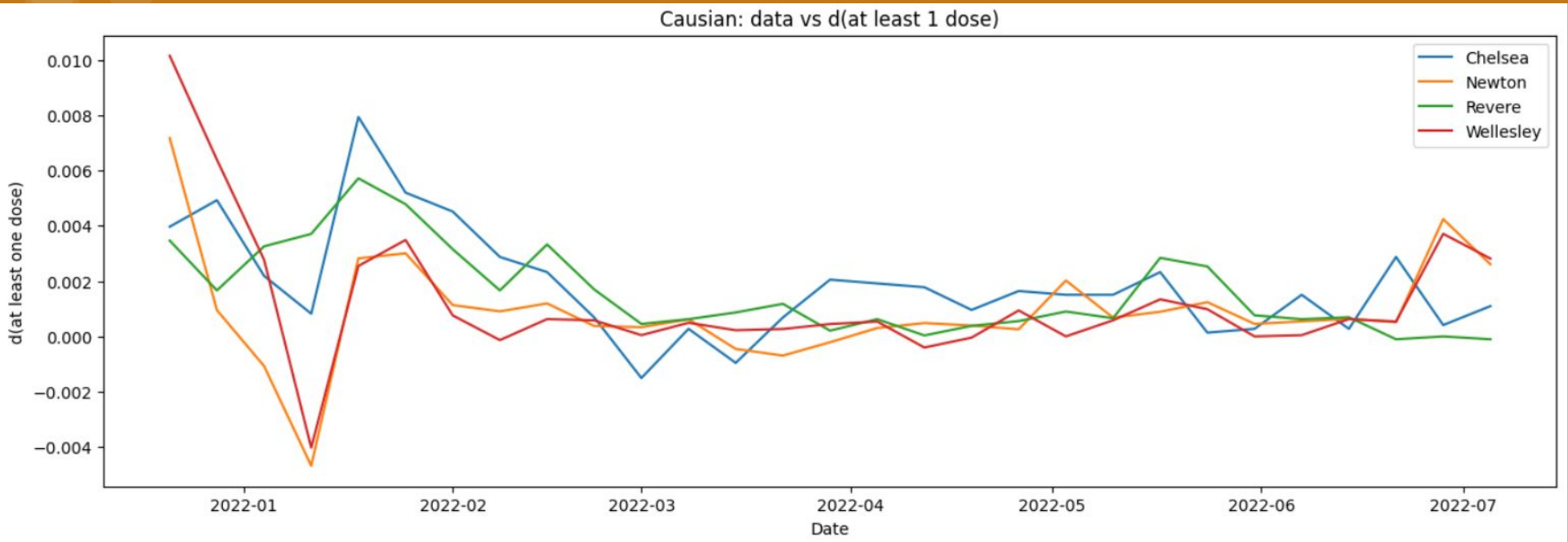

Causian: data vs d(at least 1 dose)
Chelsea
Newton
Revere
Wellesley
0.03
0.02
0.01
0.00
d(at least one dose)
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date

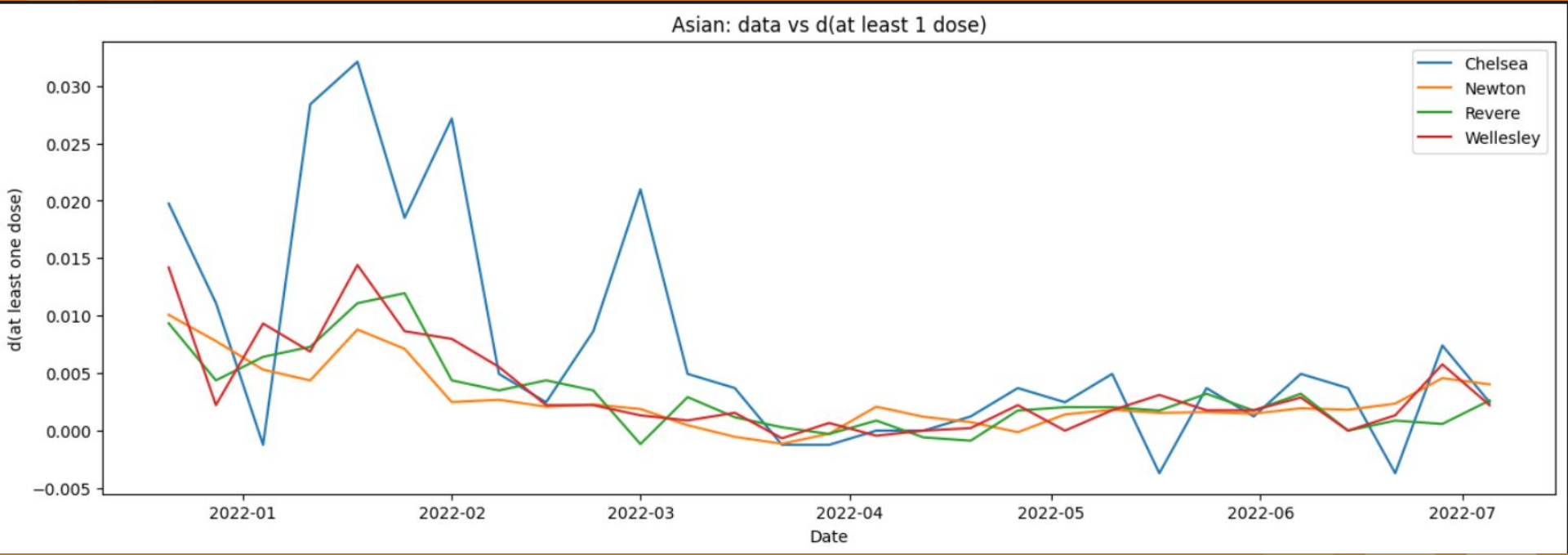

Asian: data vs d(at least 1 dose)
Chelsea
Newton
Revere
Wellesley
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
−0.005
d(at least one dose)
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date

Booster 1 Rollout

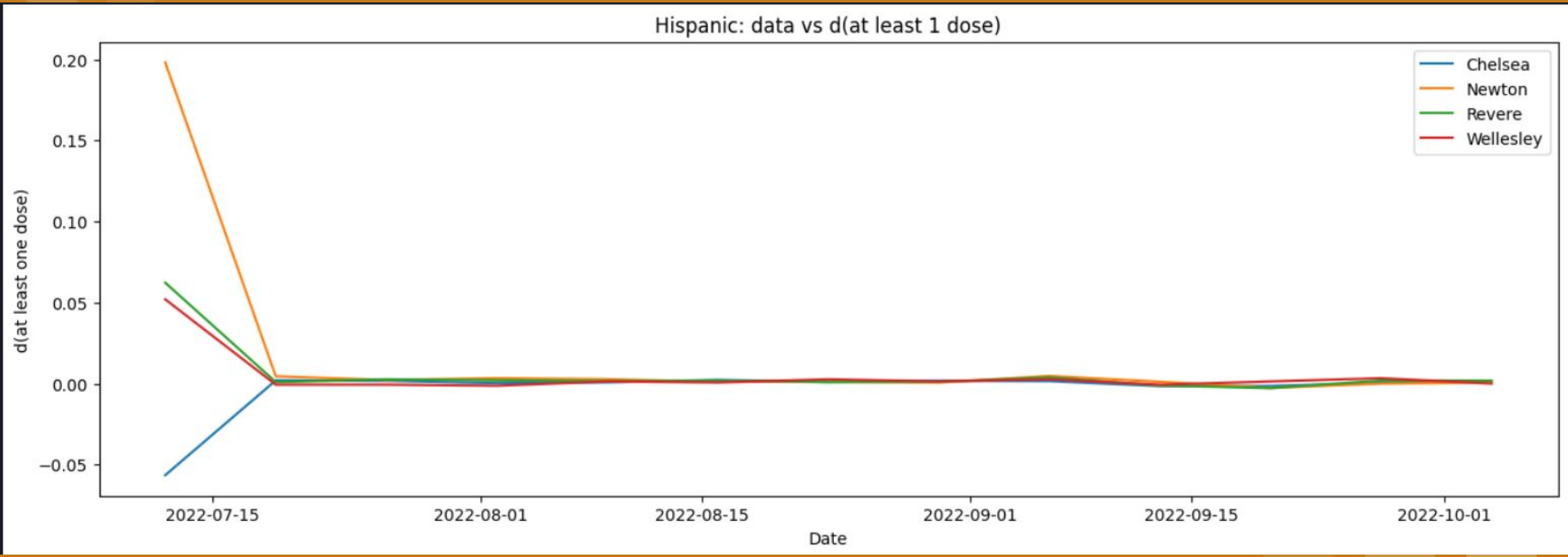


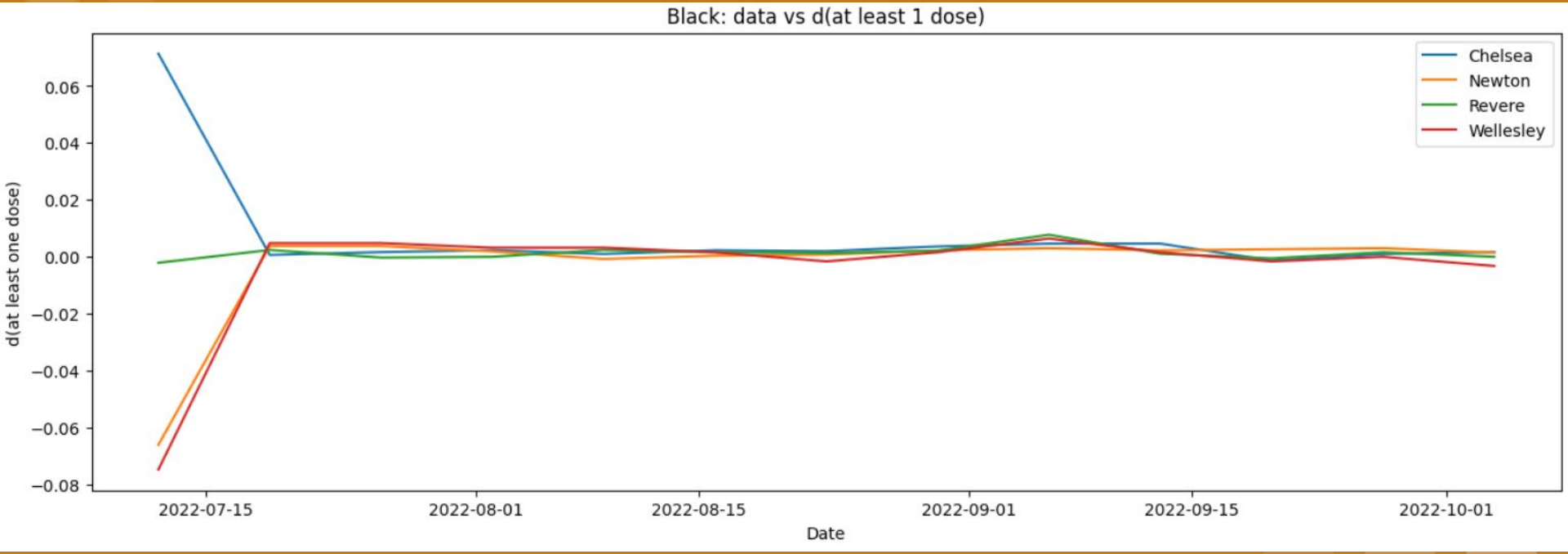

Black: data vs d(at least 1 dose)
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
−0.0025
−0.0050
d(at least one dose)
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date
Chelsea
Newton
Revere
Wellesley

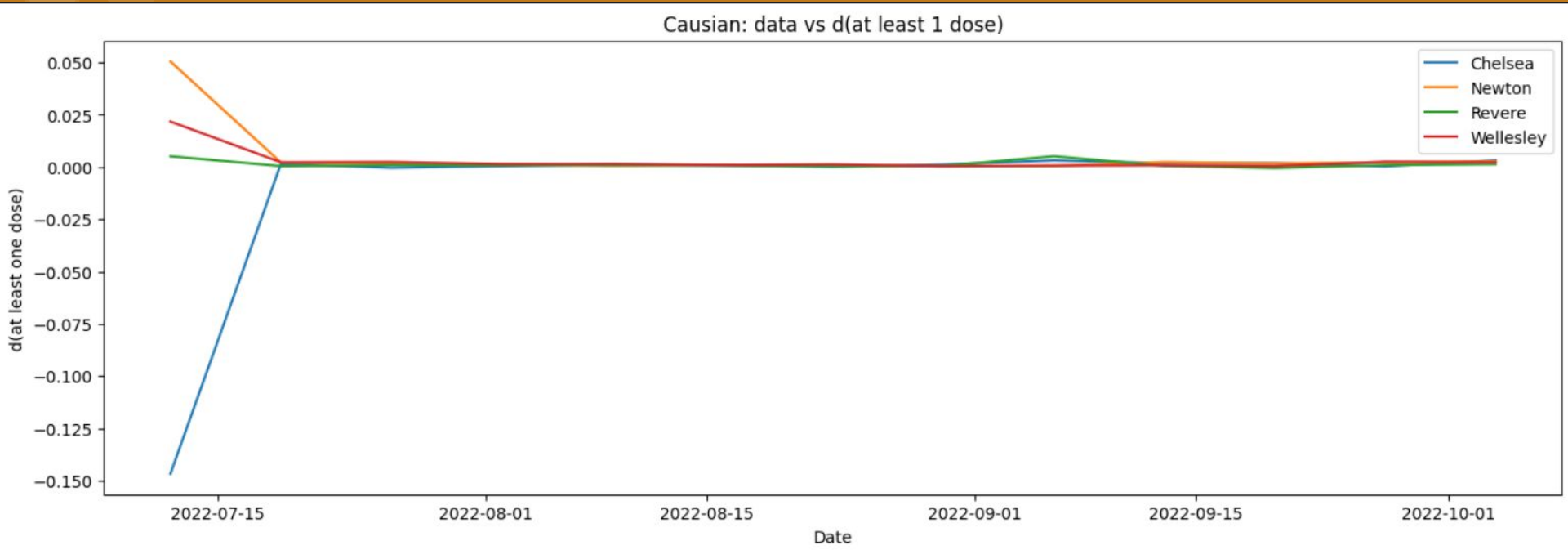

Causian: data vs d(at least 1 dose)
Chelsea
Newton
Revere
Wellesley
0.010
0.008
0.006
0.004
0.002
0.000
−0.002
−0.004
d(at least one dose)
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date

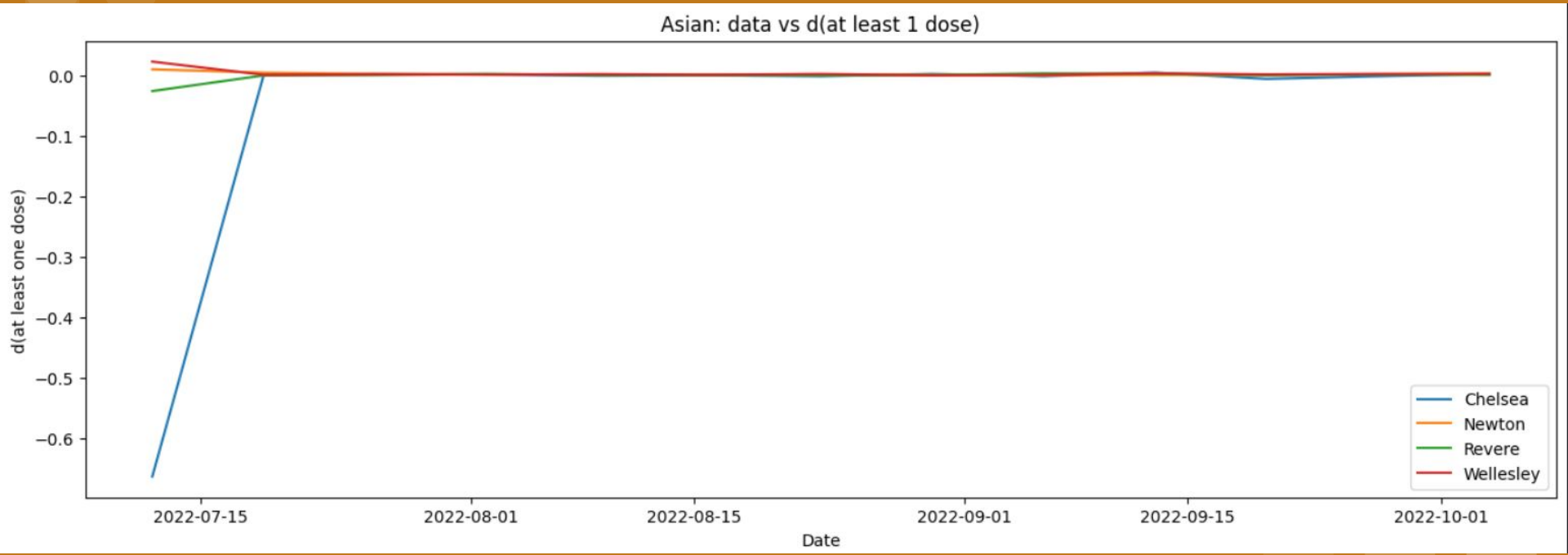

Asian: data vs d(at least 1 dose)
Chelsea
Newton
Revere
Wellesley
0.030
0.025
0.020
0.015
0.010
0.005
0.000
−0.005
d(at least one dose)
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date

Booster 2 Rollout




Black: data vs d(at least 1 dose)
Chelsea
Newton
Revere
Wellesley
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
−0.08
d(at least one dose)
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date

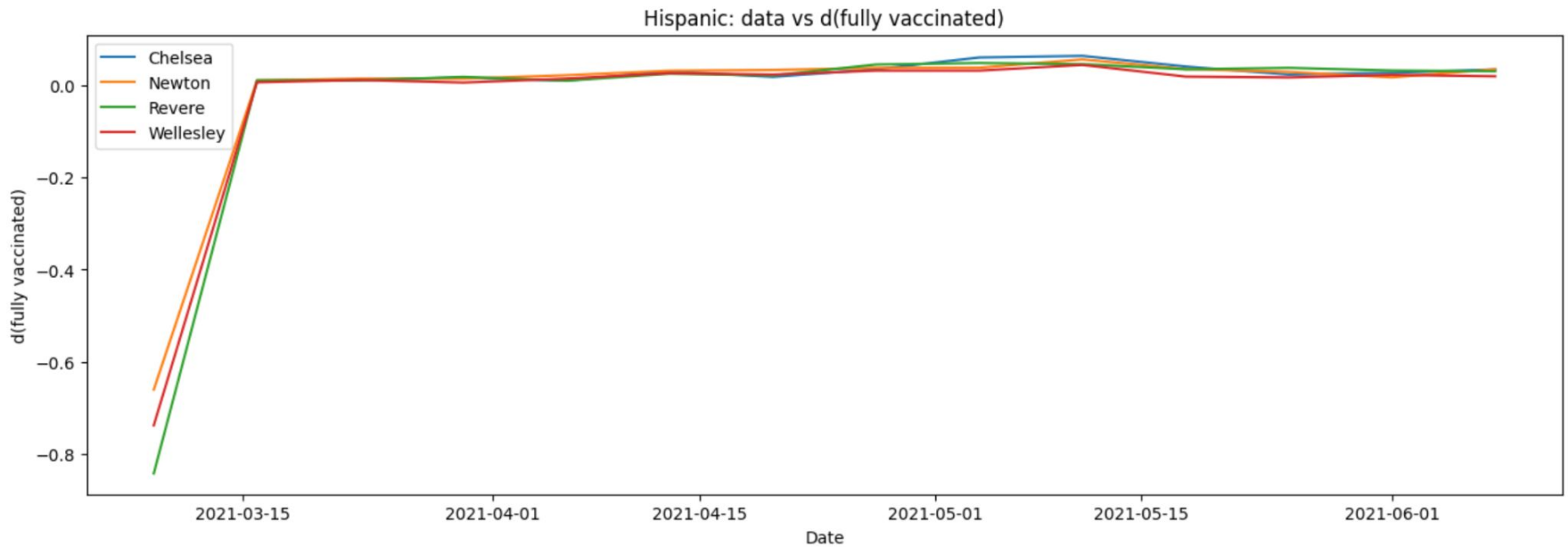

Causian: data vs d(at least 1 dose)
0.050
0.025
0.000
−0.025
−0.050
−0.075
−0.100
−0.125
−0.150
d(at least one dose)
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date
Chelsea
Newton
Revere
Wellesley

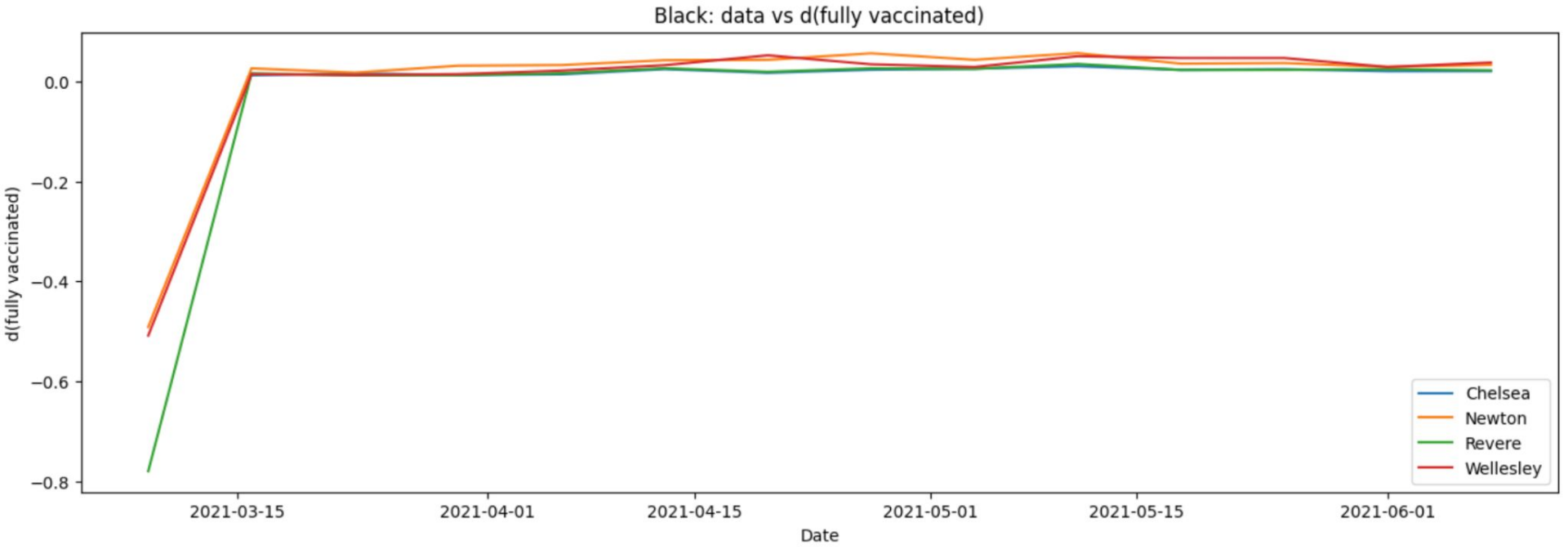

Asian: data vs d(at least 1 dose)
d(at least one dose)
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date
Chelsea
Newton
Revere
Wellesley

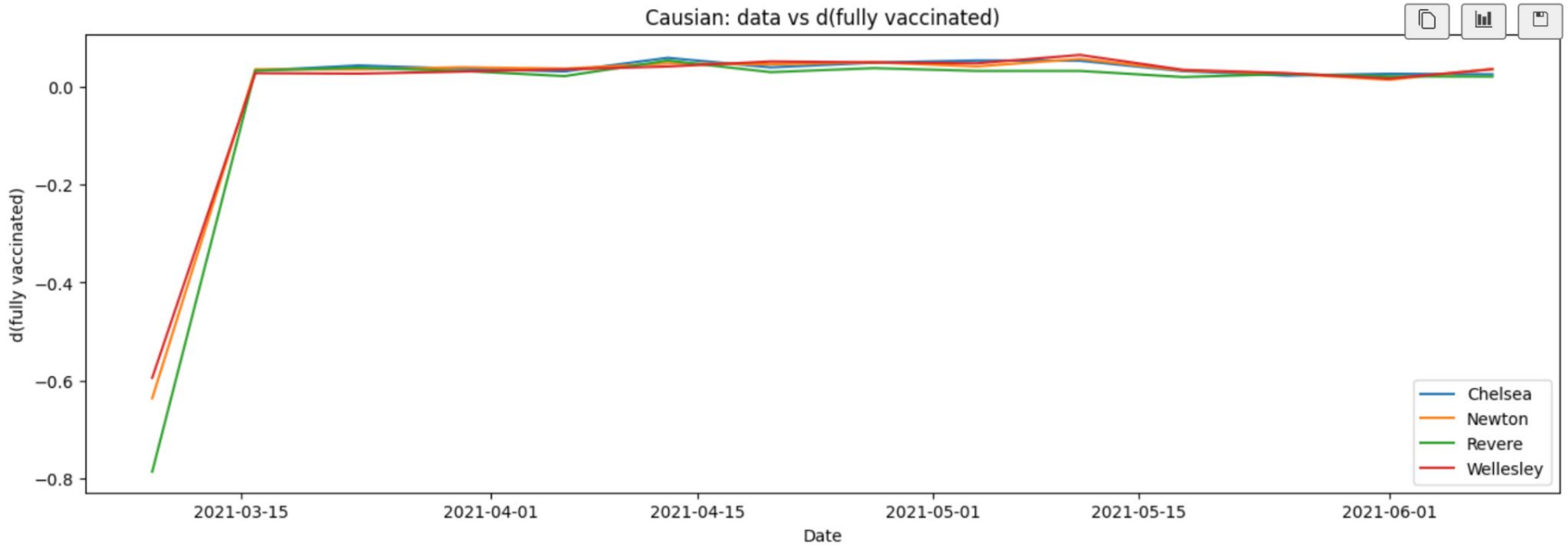
Data vs. Rate of Fully Vaccinated by Region

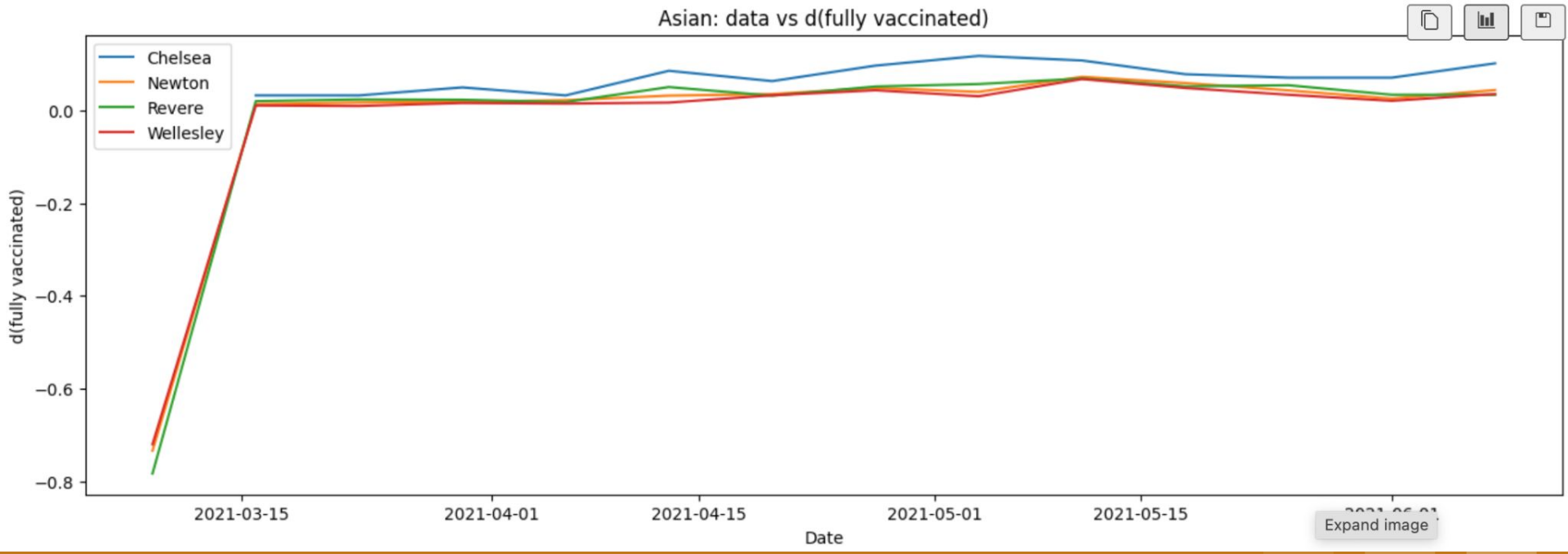
Each line corresponds to a region, and each graph corresponds to a race.

Early Vaccine Rollout

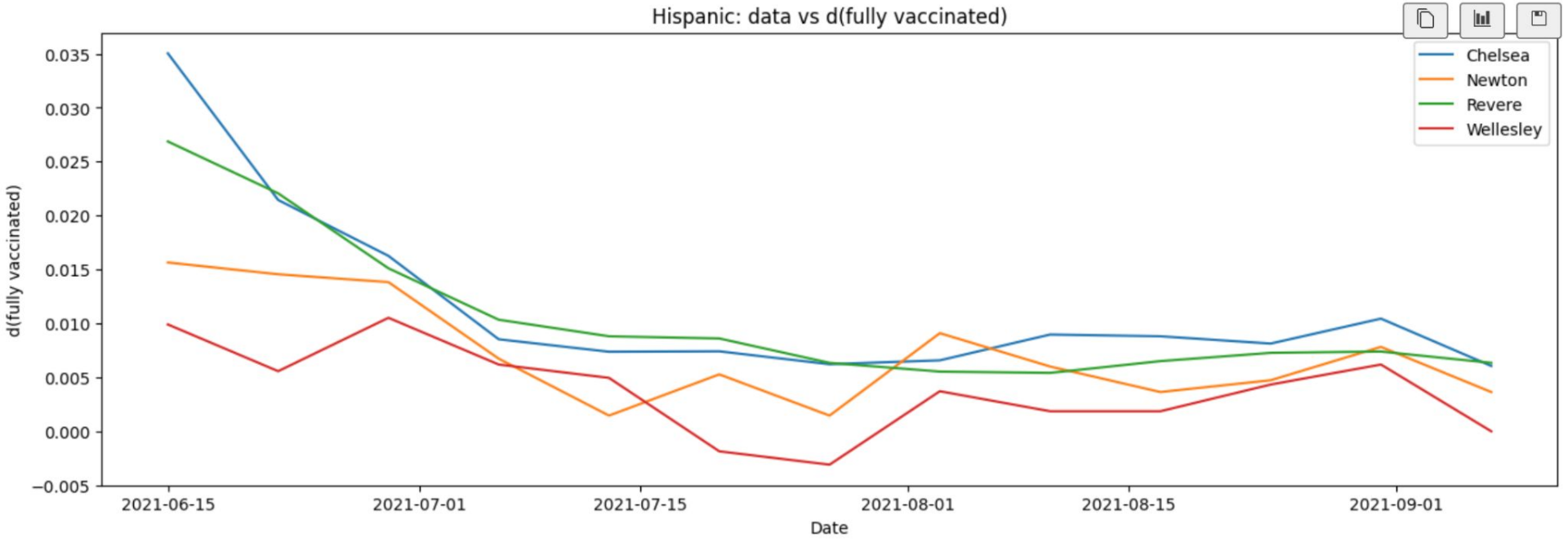


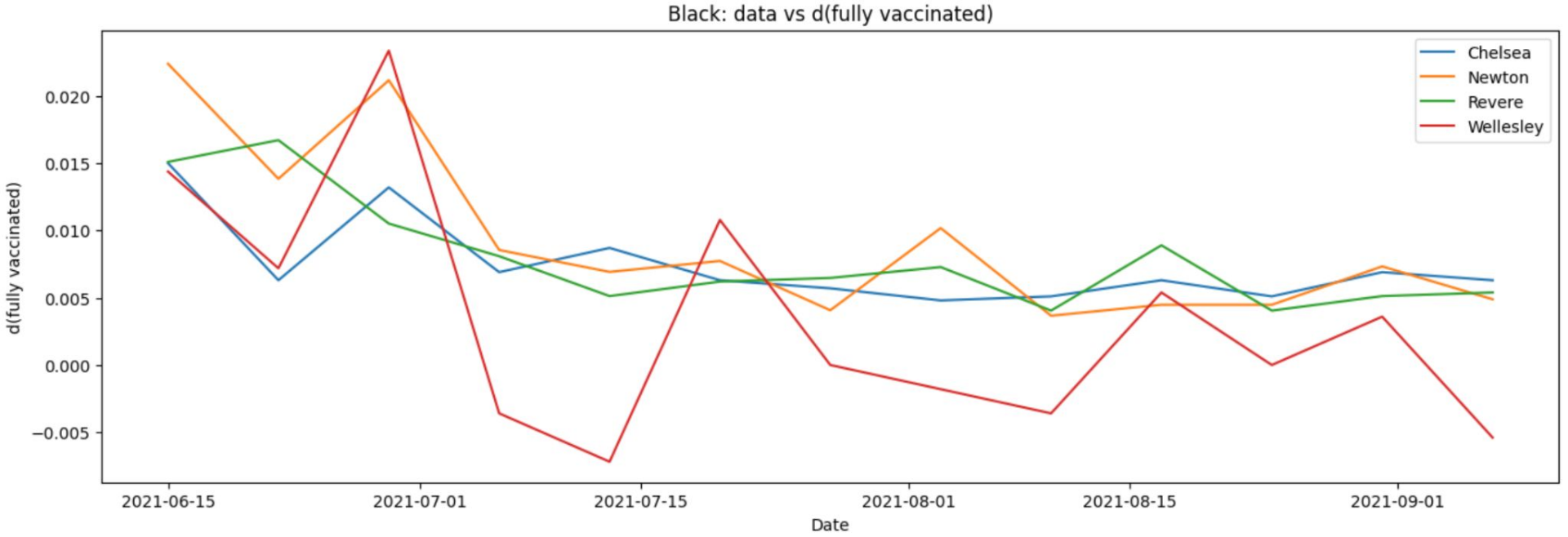

Black: data vs d(fully vaccinated)
d(fully vaccinated)
0.0
−0.2
−0.4
−0.6
−0.8
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
2021-06-01
Date
Chelsea
Newton
Revere
Wellesley

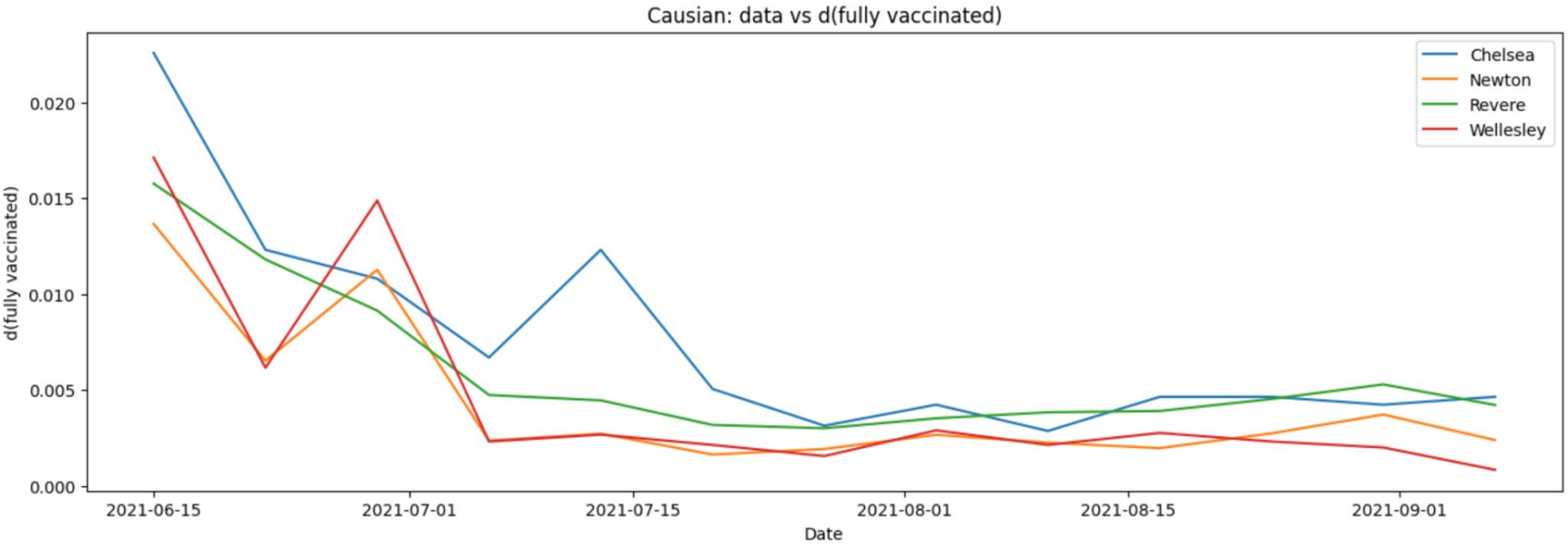

Causian: data vs d(fully vaccinated)
0.0
−0.2
−0.4
−0.6
−0.8
d(fully vaccinated)
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
2021-06-01
Date
Chelsea
Newton
Revere
Wellesley

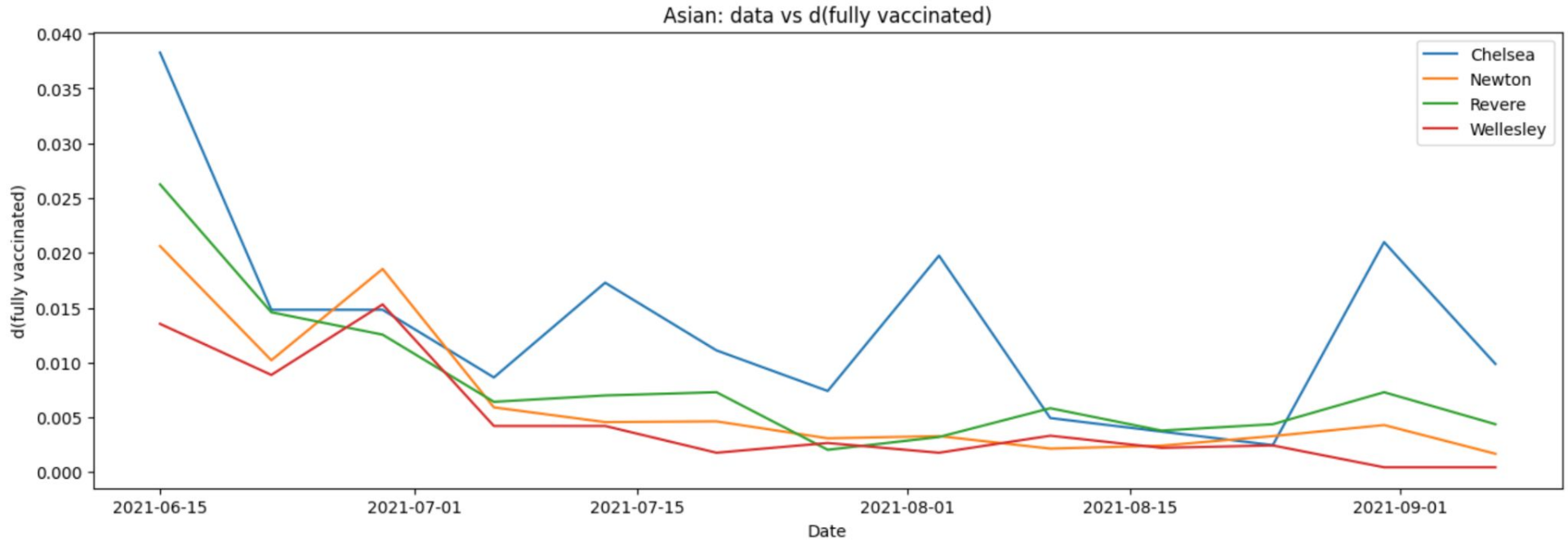

Asian: data vs d(fully vaccinated)
Chelsea
Newton
Revere
Wellesley
0.0
−0.2
−0.4
−0.6
−0.8
d(fully vaccinated)
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
Date
Expand image

Middle Vaccine Rollout

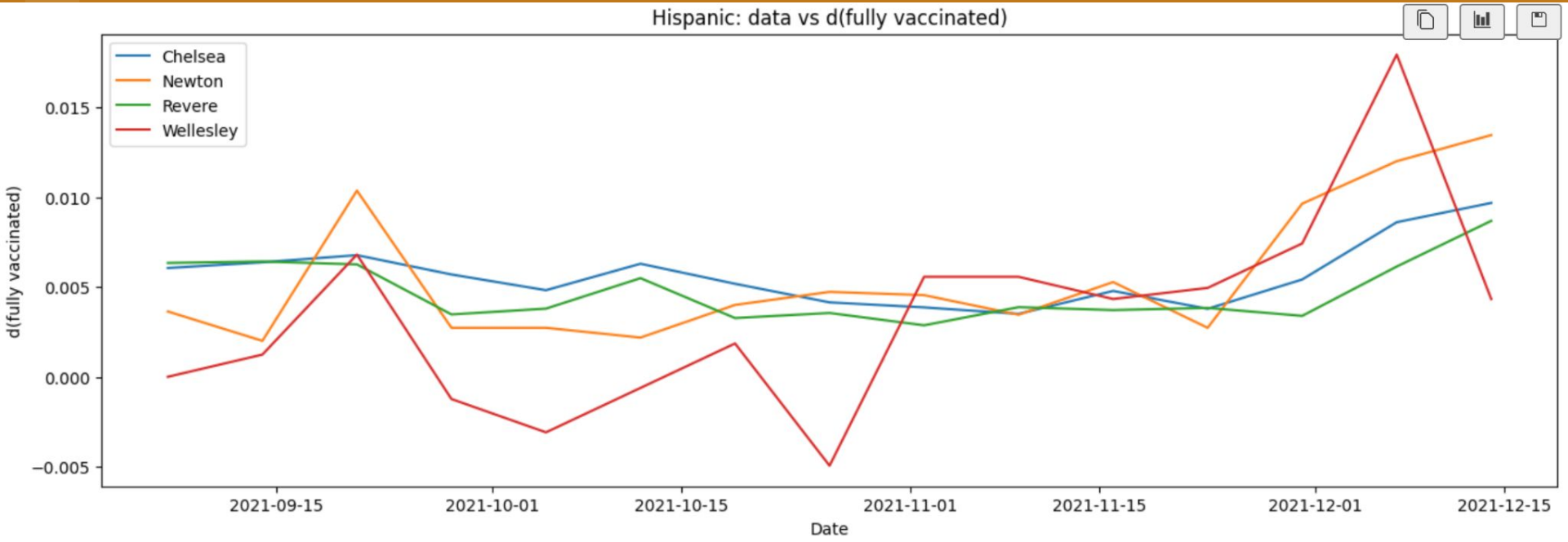


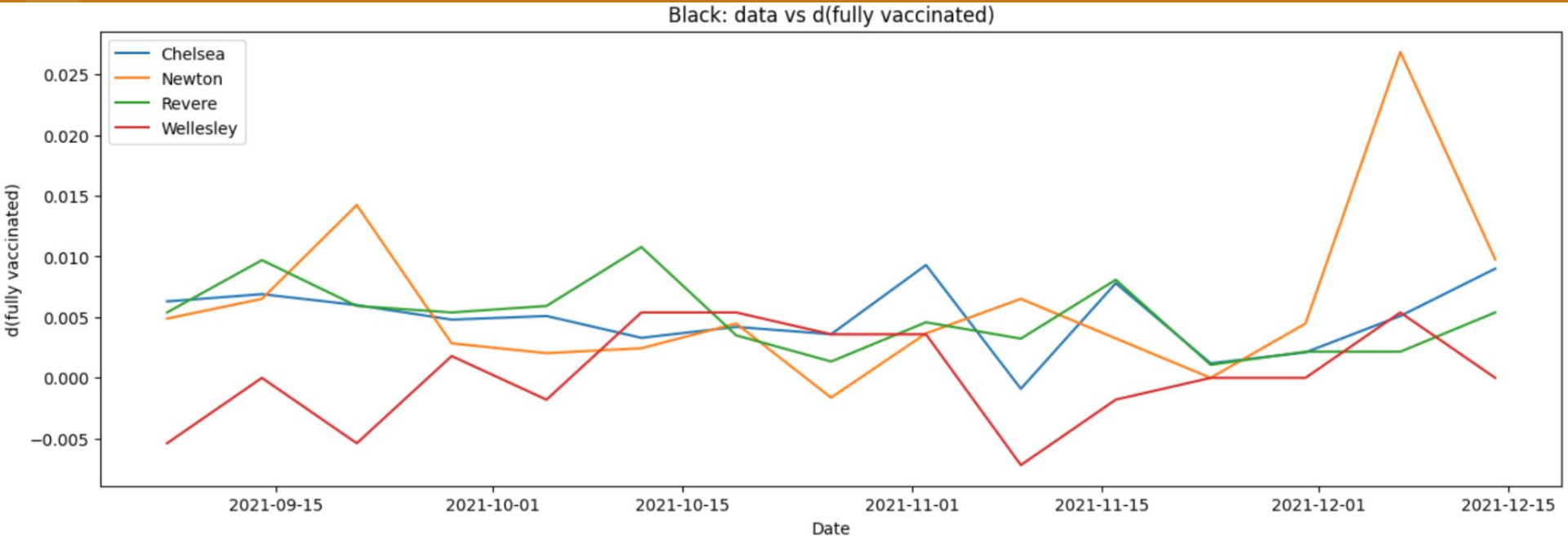

Black: data vs d(fully vaccinated)
Chelsea
Newton
Revere
Wellesley
0.020
0.015
0.010
0.005
0.000
−0.005
d(fully vaccinated)
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date

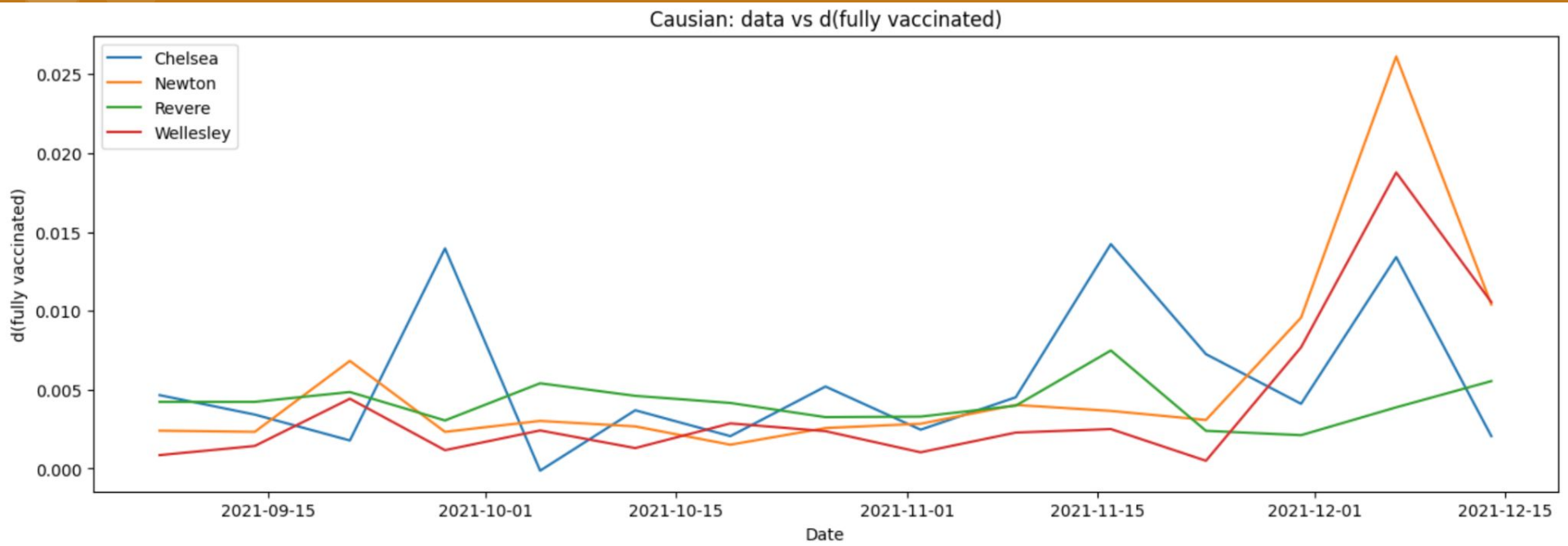

Causian: data vs d(fully vaccinated)
Chelsea
Newton
Revere
Wellesley
0.020
0.015
0.010
0.005
0.000
d(fully vaccinated)
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date

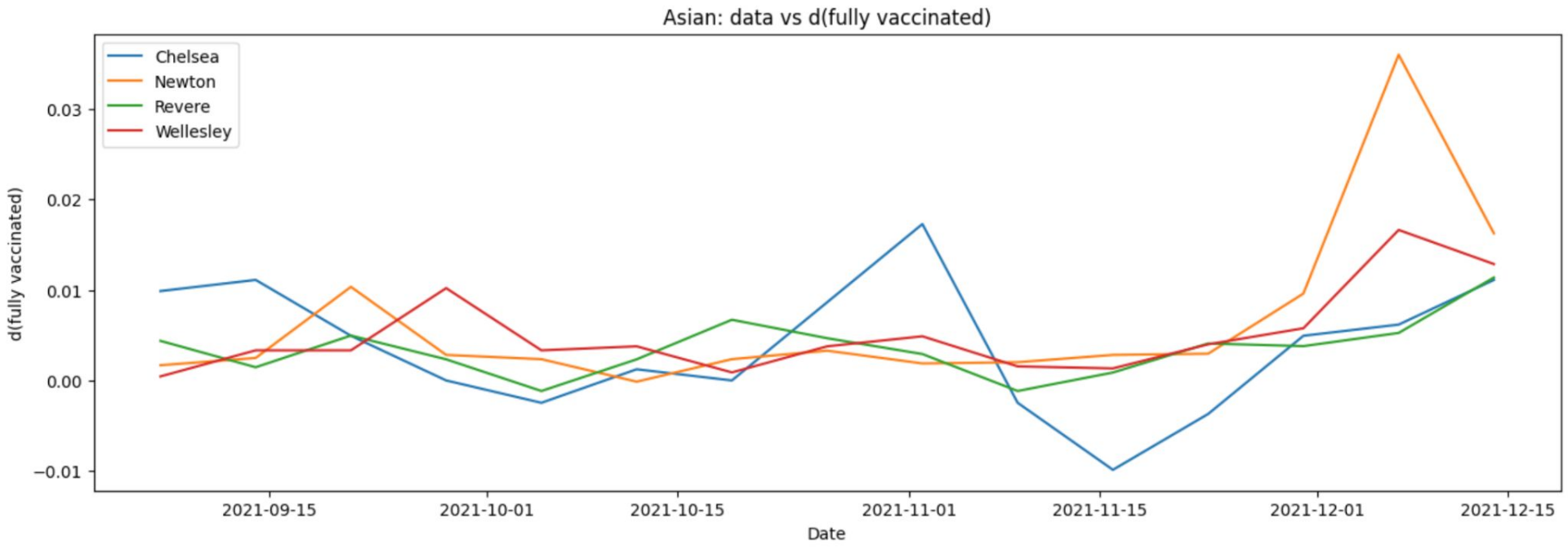

Asian: data vs d(fully vaccinated)
d(fully vaccinated)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date
Chelsea
Newton
Revere
Wellesley

Late Vaccine Rollout

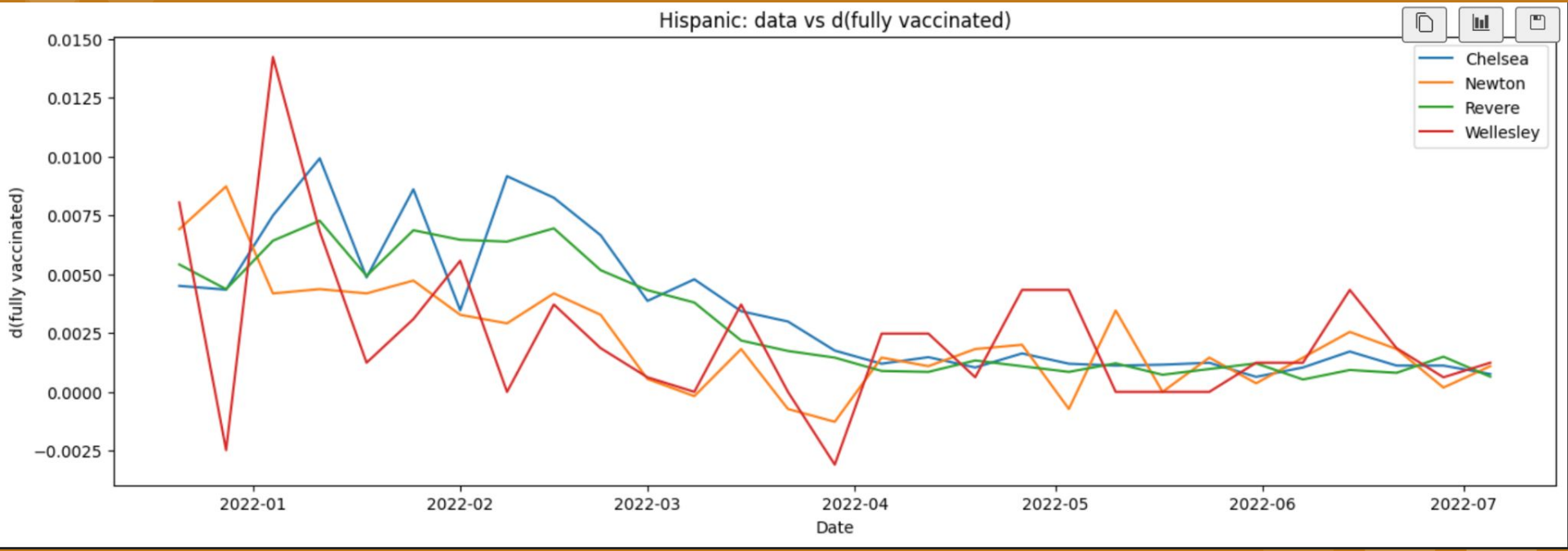


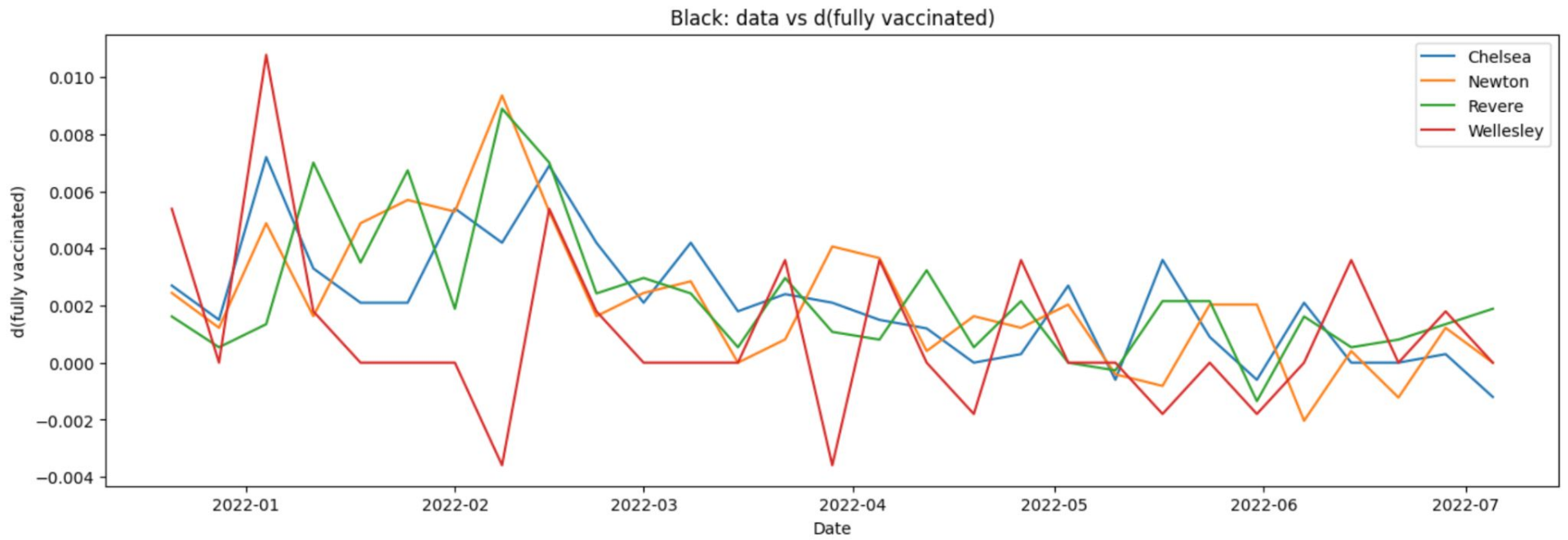

Black: data vs d(fully vaccinated)
Chelsea
Newton
Revere
Wellesley
0.025
0.020
0.015
0.010
0.005
0.000
−0.005
d(fully vaccinated)
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date

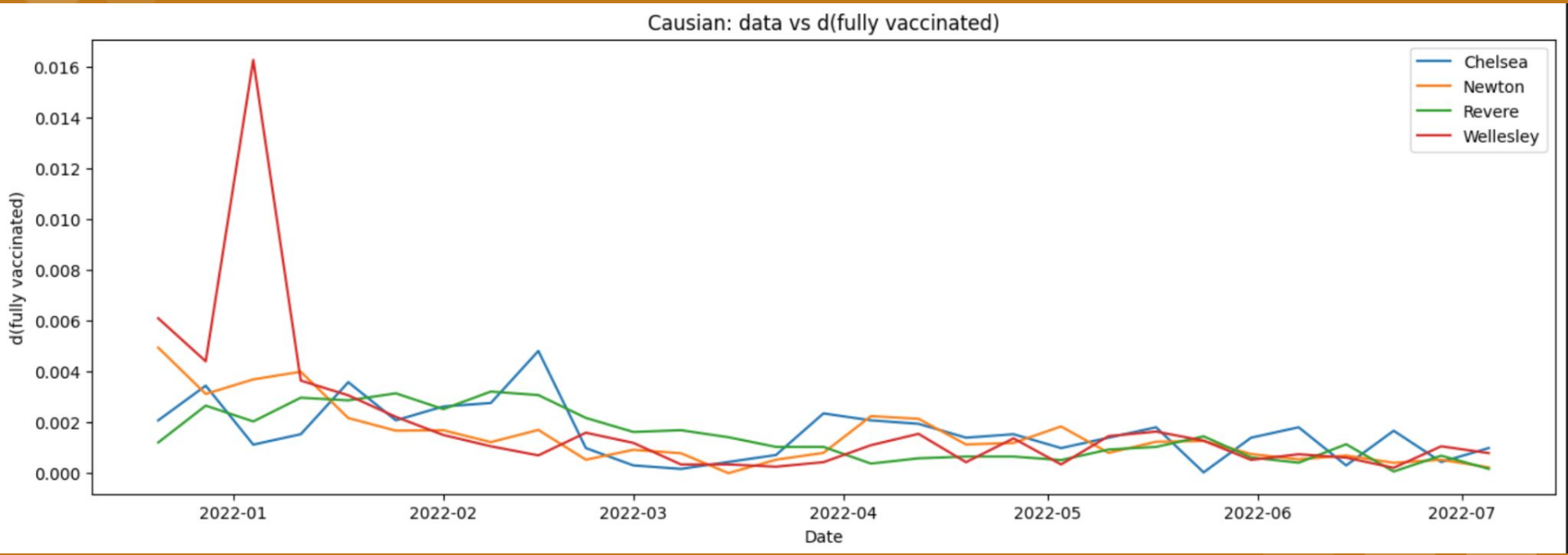

Causian: data vs d(fully vaccinated)
Chelsea
Newton
Revere
Wellesley
d(fully vaccinated)
0.025
0.020
0.015
0.010
0.005
0.000
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date

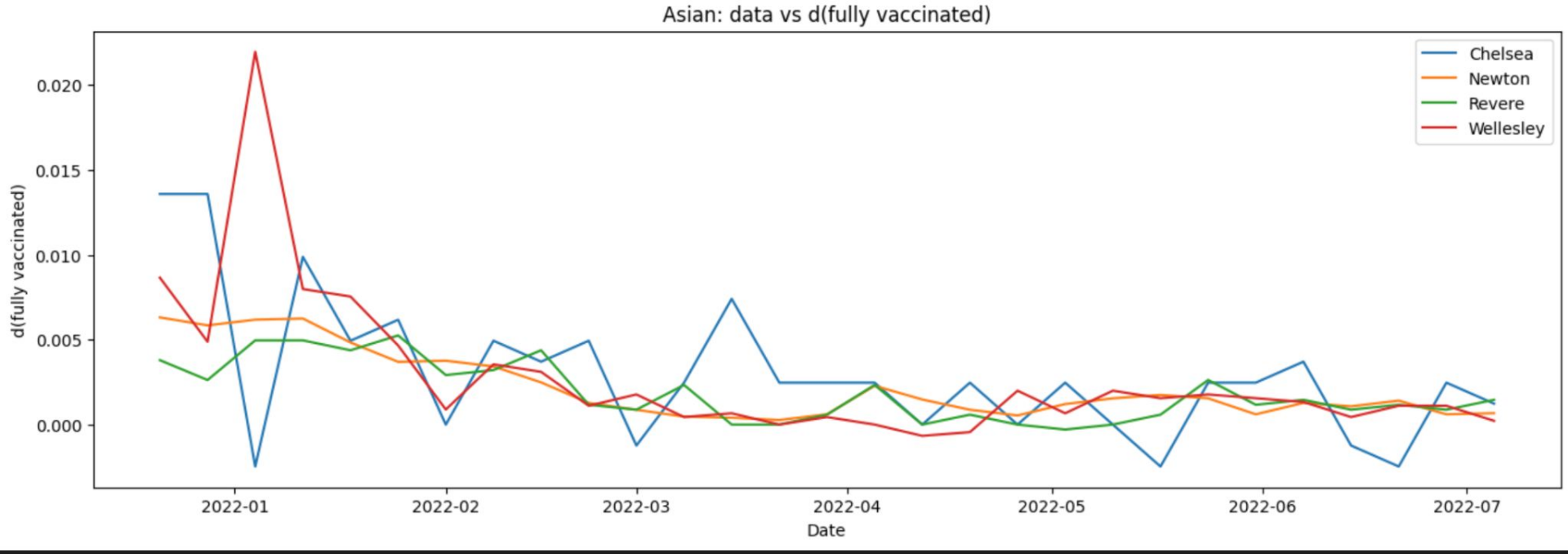

Asian: data vs d(fully vaccinated)
Chelsea
Newton
Revere
Wellesley
0.03
0.02
0.01
0.00
−0.01
d(fully vaccinated)
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date

Booster 1 Rollout

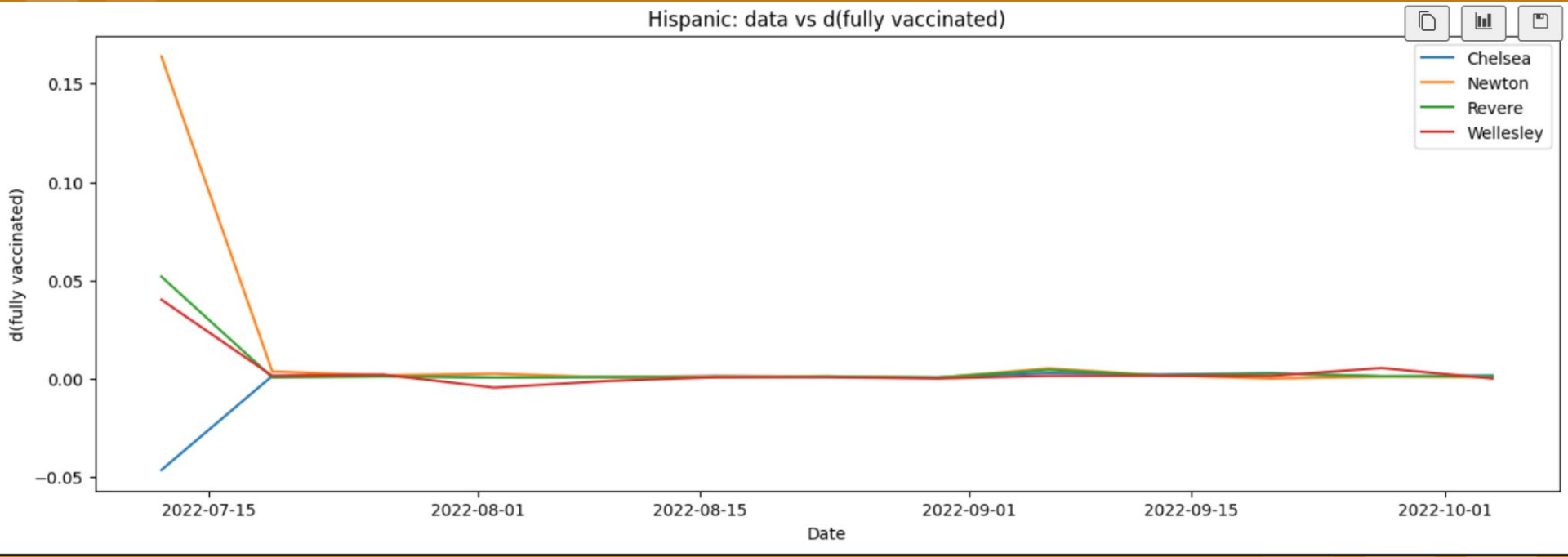


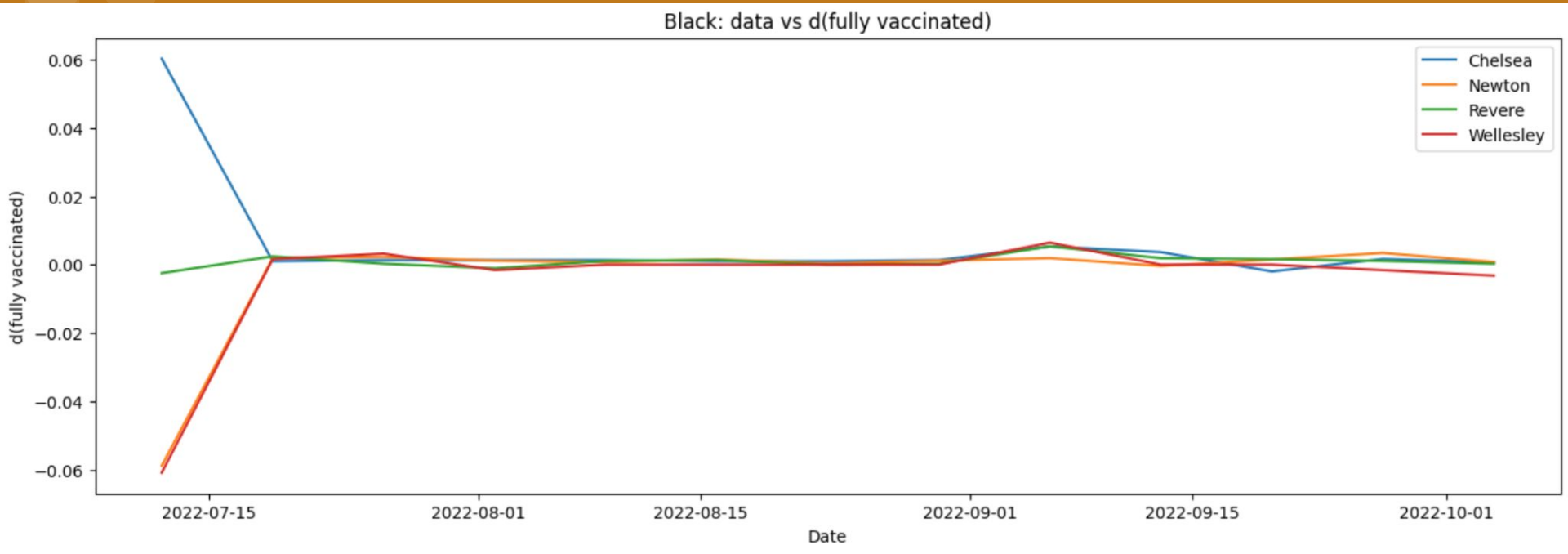

Black: data vs d(fully vaccinated)
Chelsea
Newton
Revere
Wellesley
0.010
0.008
0.006
0.004
0.002
0.000
−0.002
−0.004
d(fully vaccinated)
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date

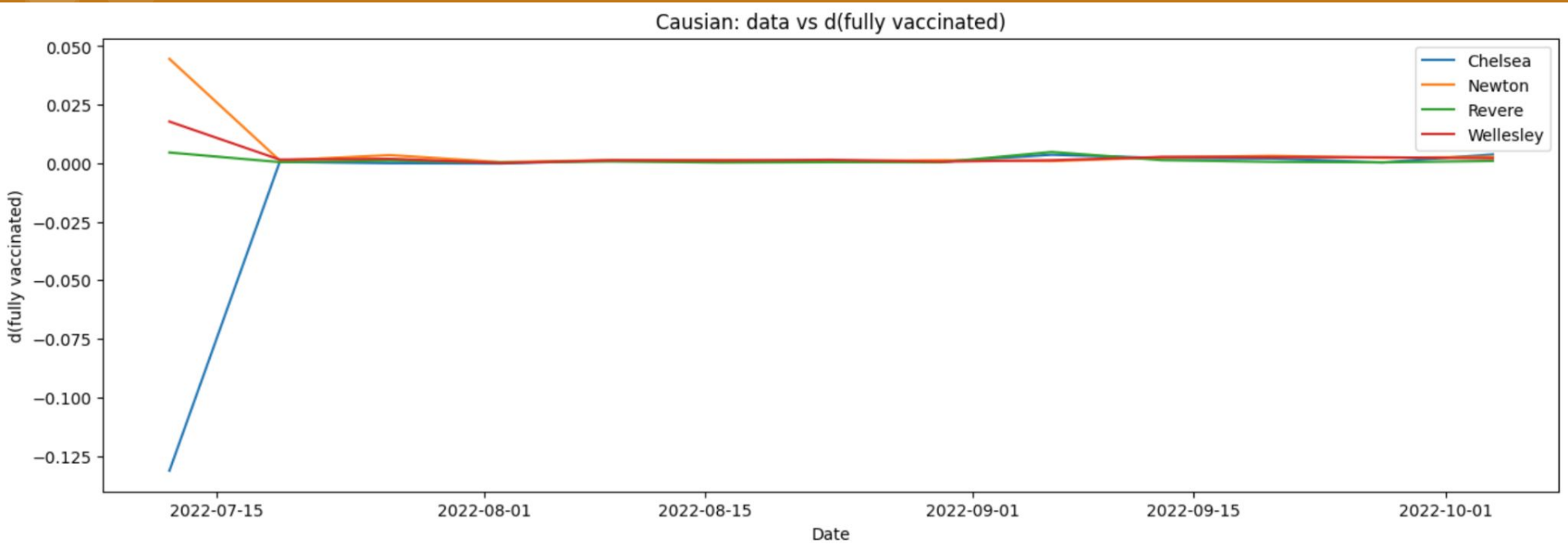

Causian: data vs d(fully vaccinated)
d(fully vaccinated)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date
Chelsea
Newton
Revere
Wellesley

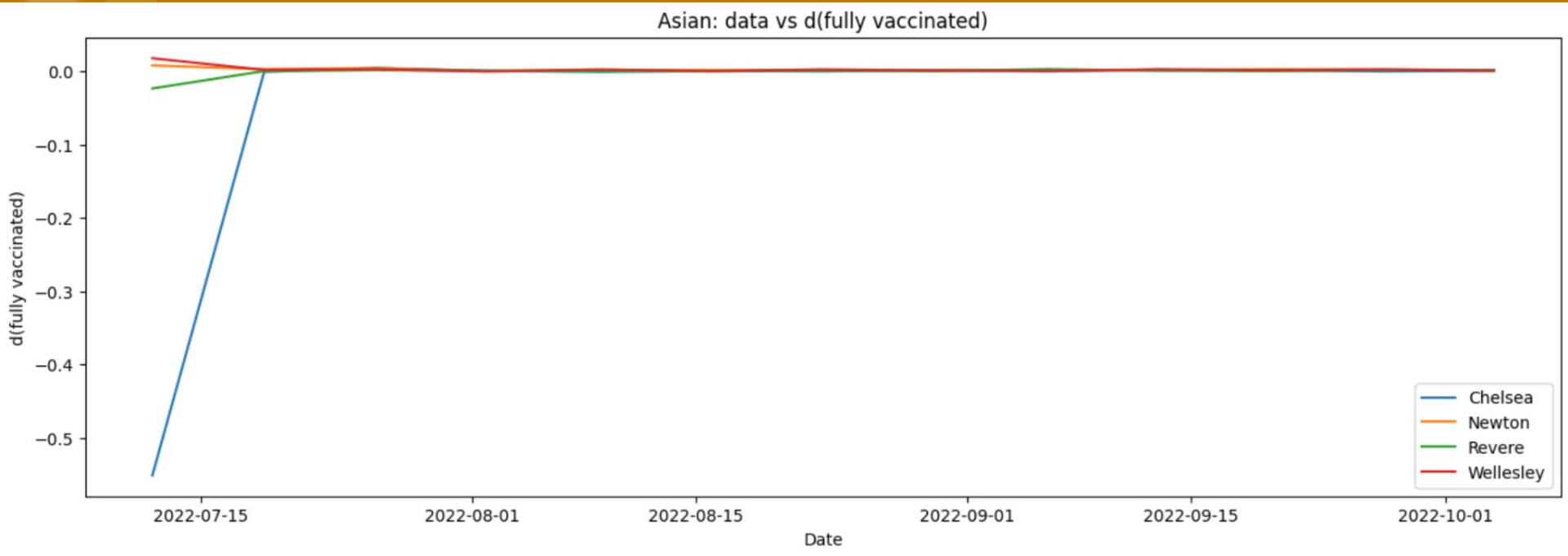

Asian: data vs d(fully vaccinated)
Chelsea
Newton
Revere
Wellesley
0.020
0.015
0.010
0.005
0.000
d(fully vaccinated)
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date

Booster 2 Rollout




Black: data vs d(fully vaccinated)
Chelsea
Newton
Revere
Wellesley
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
d(fully vaccinated)
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date

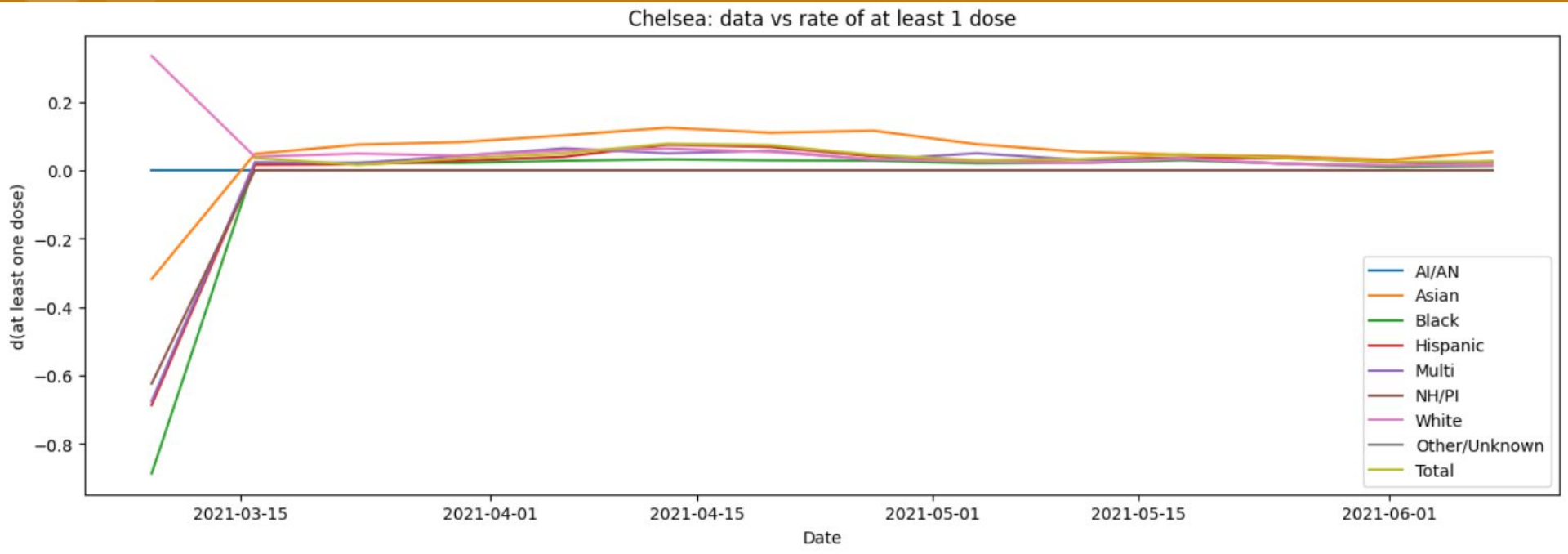

Causian: data vs d(fully vaccinated)
0.050
0.025
0.000
−0.025
−0.050
−0.075
−0.100
−0.125
d(fully vaccinated)
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date
Chelsea
Newton
Revere
Wellesley

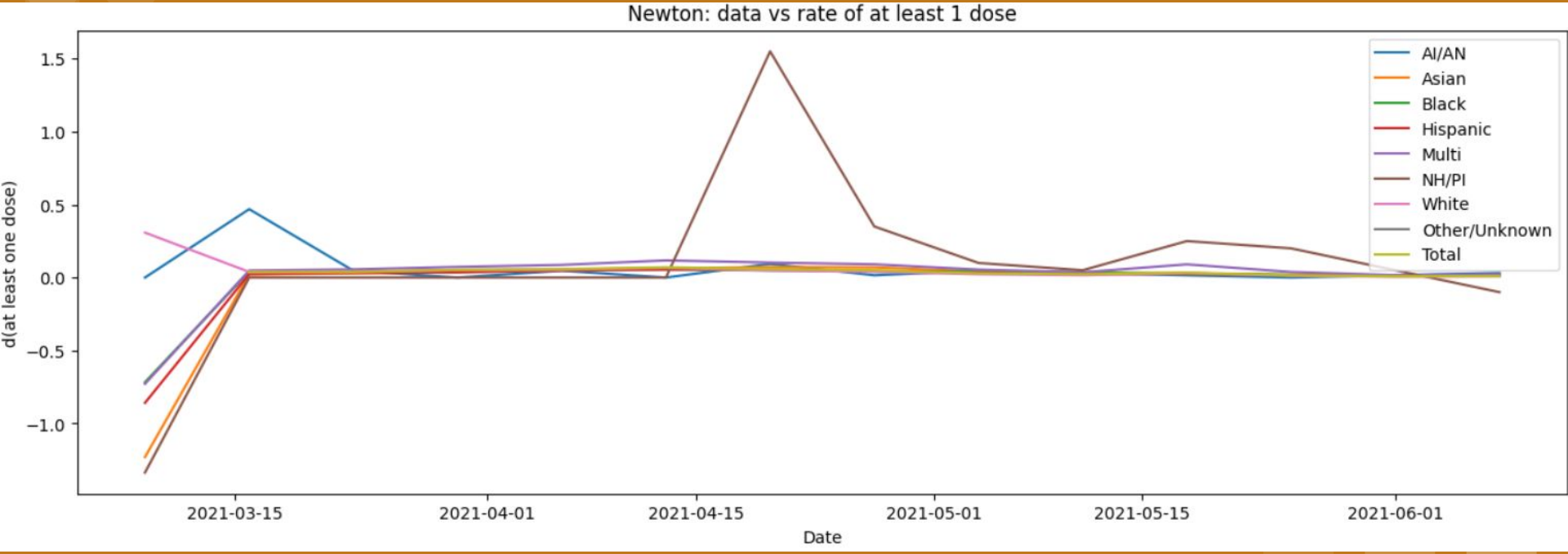

Asian: data vs d(fully vaccinated)
d(fully vaccinated)
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date
Chelsea
Newton
Revere
Wellesley

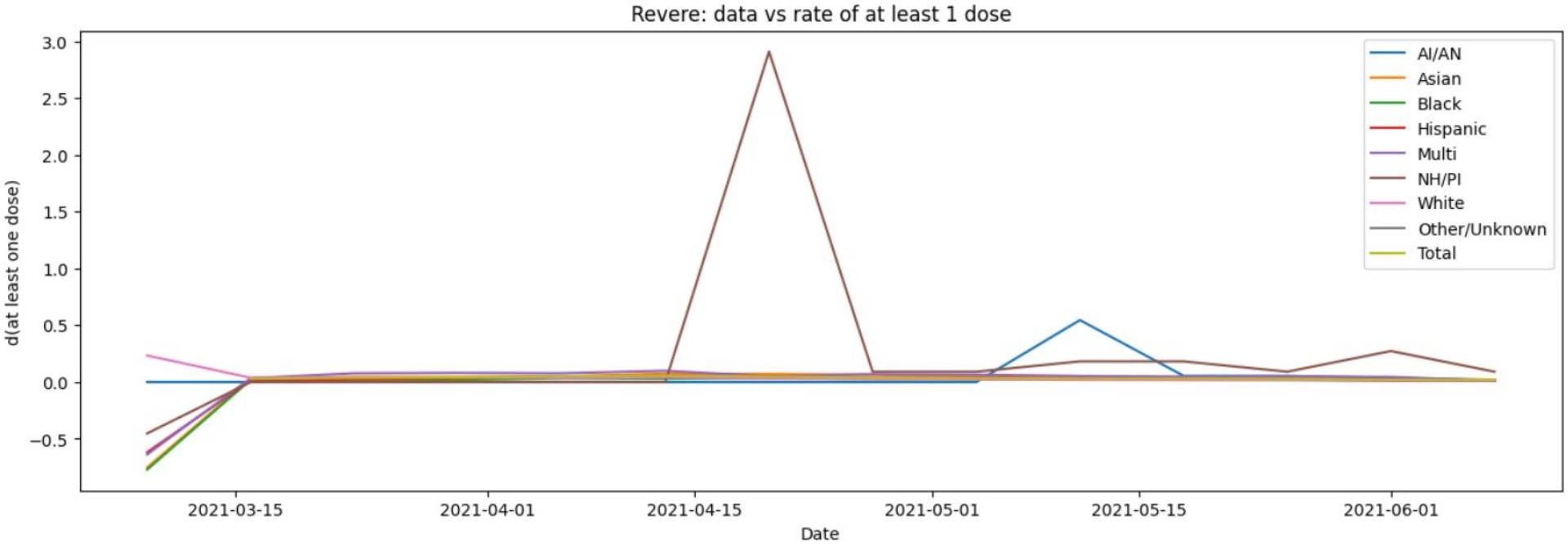
Data vs. Rate of At Least 1 Dose by Race

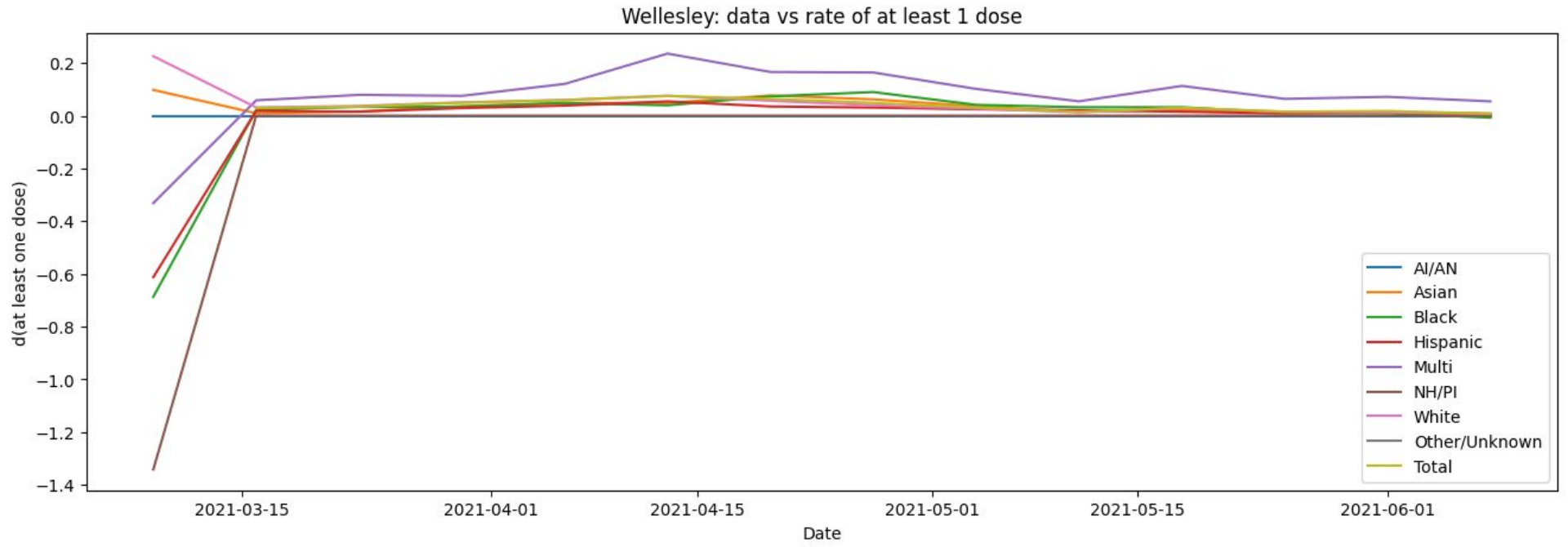
Each line corresponds to a race, and each graph corresponds to a region.

Early Vaccine Rollout

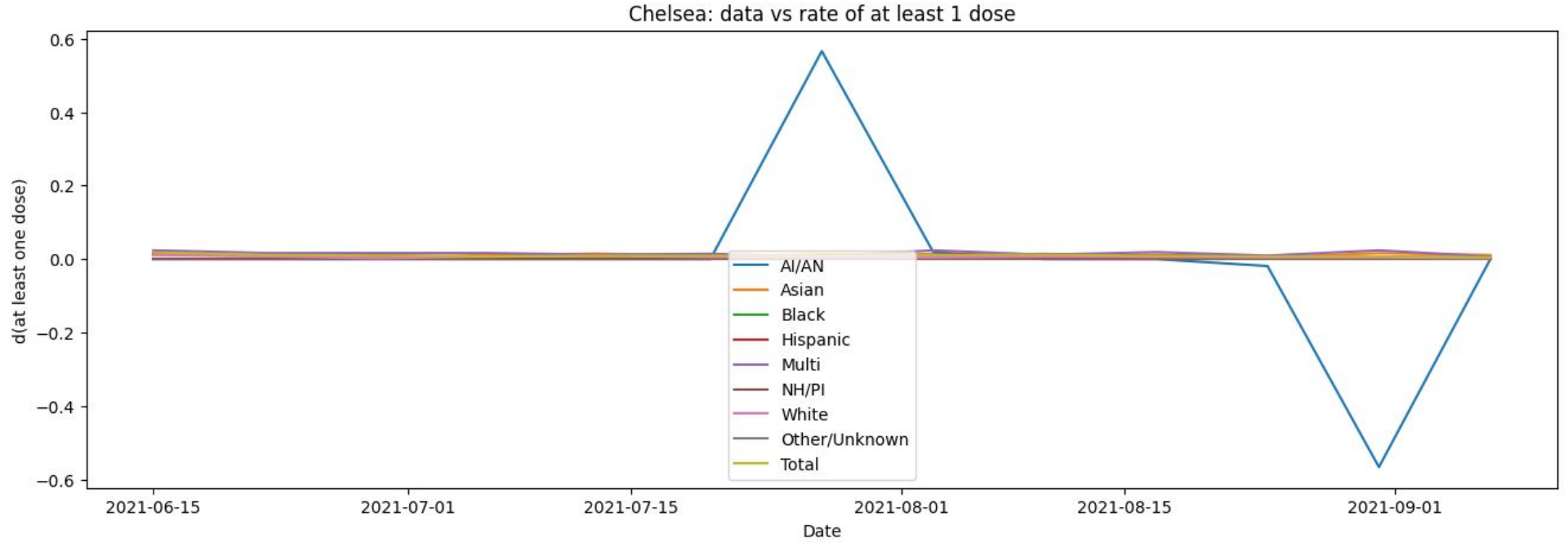


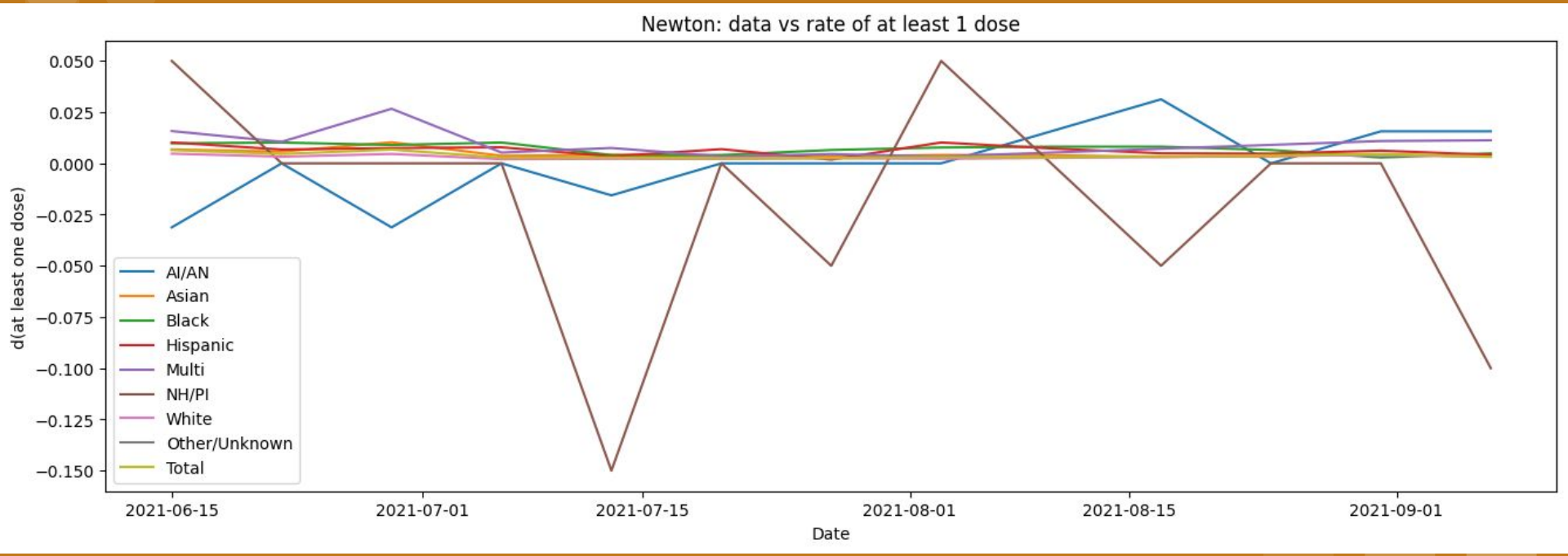

Newton: data vs rate of at least 1 dose
d(at least one dose)
1.5
1.0
0.5
0.0
−0.5
−1.0
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
2021-06-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

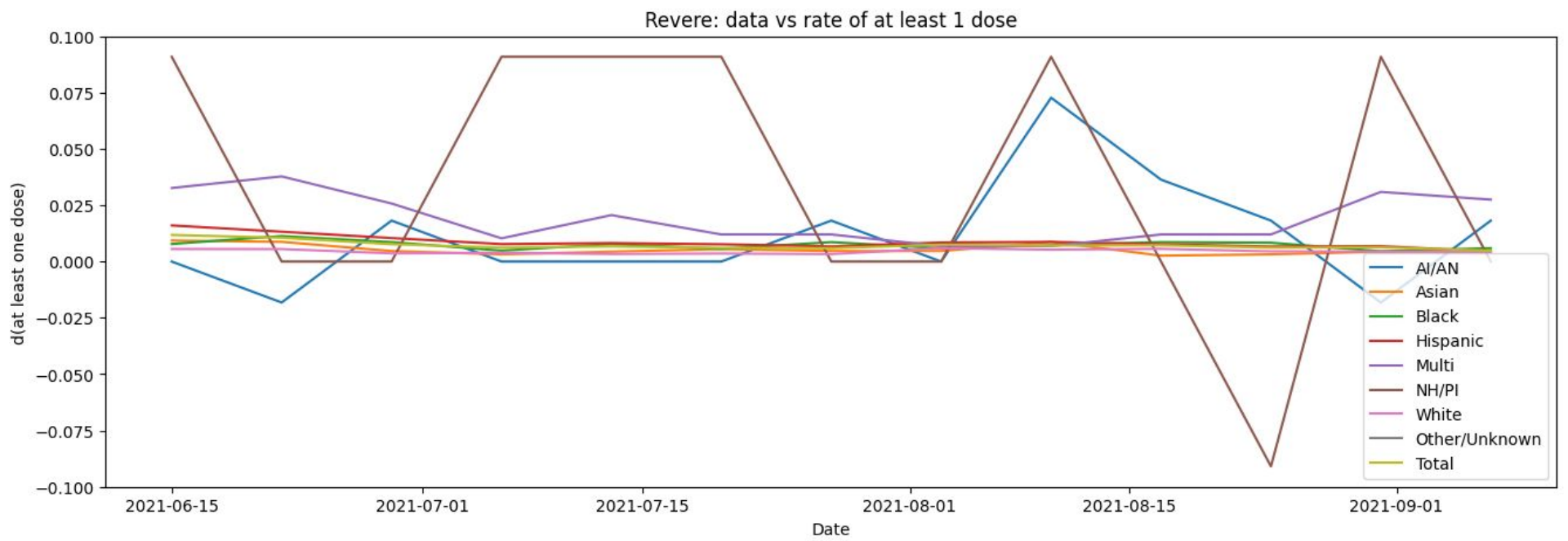

Revere: data vs rate of at least 1 dose
d(at least one dose)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
2021-06-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

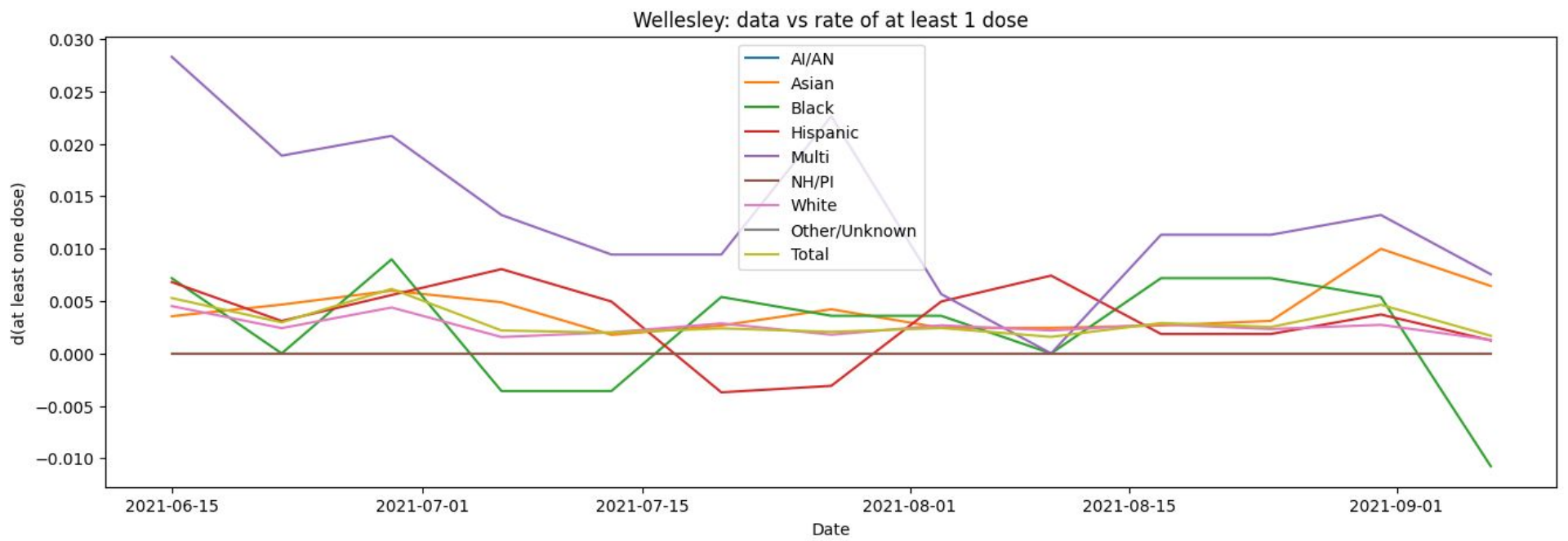

Wellesley: data vs rate of at least 1 dose
d(at least one dose)
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
−1.4
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
2021-06-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

Middle Vaccine Rollout

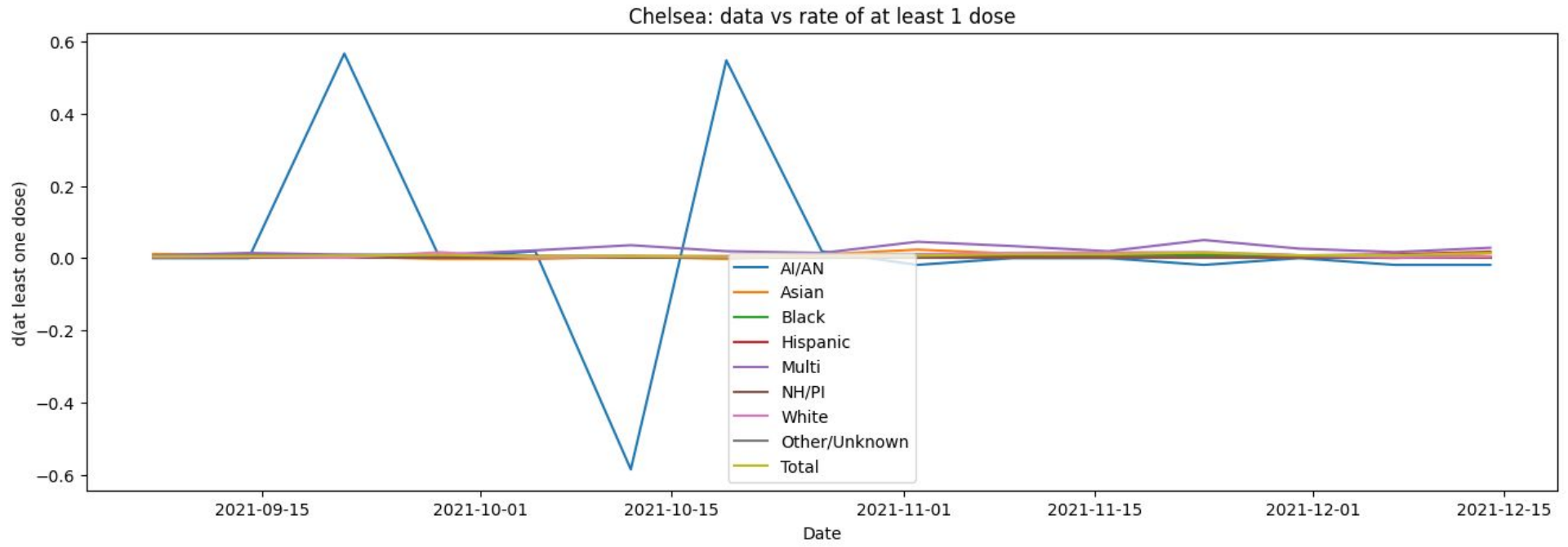


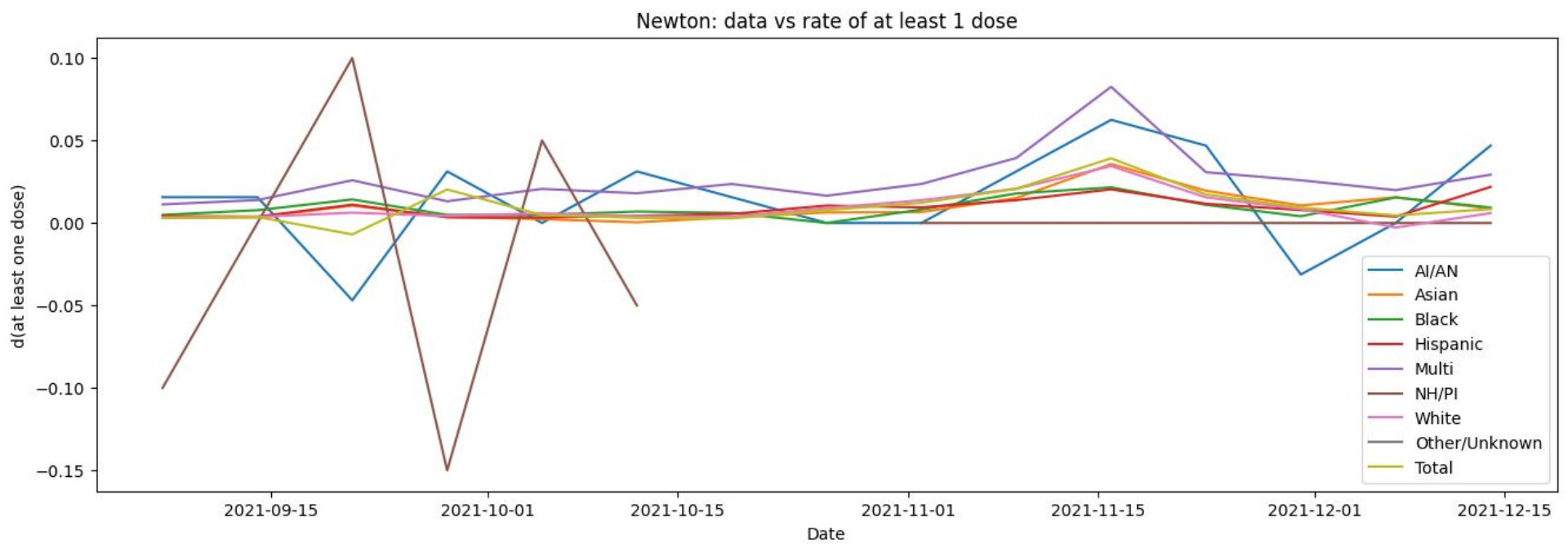

Newton: data vs rate of at least 1 dose
d(at least one dose)
0.050
0.025
0.000
−0.025
−0.050
−0.075
−0.100
−0.125
−0.150
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date

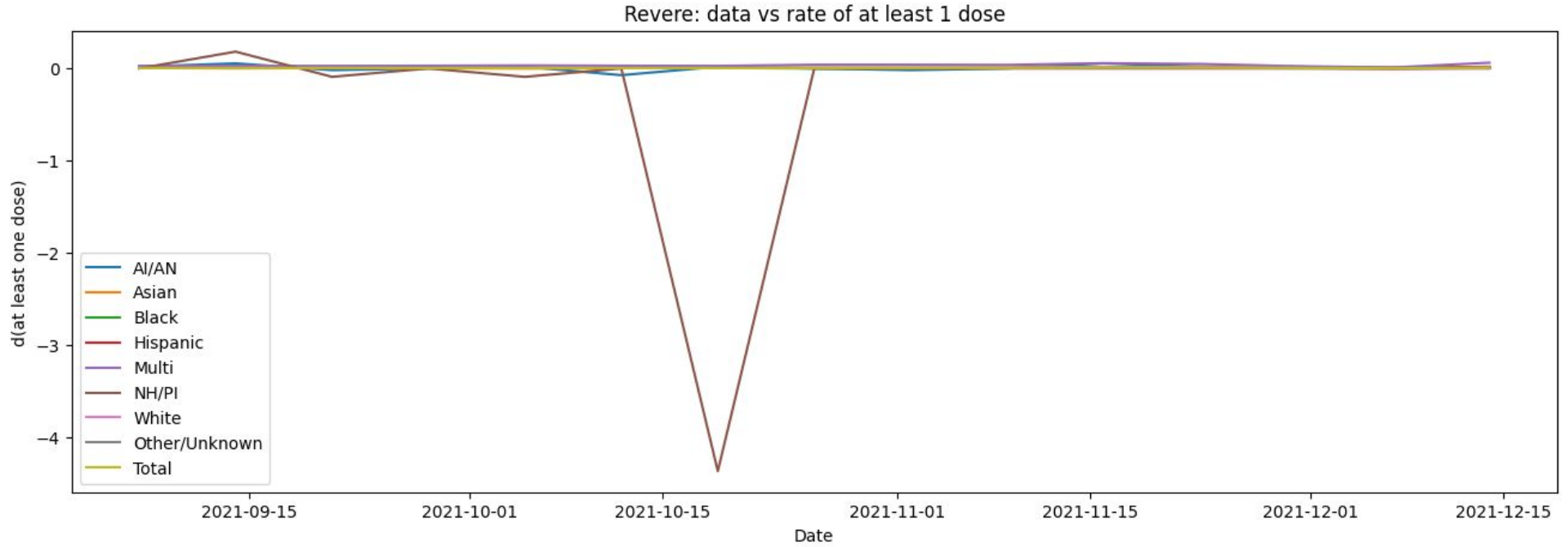

Revere: data vs rate of at least 1 dose
d(at least one dose)
0.100
0.075
0.050
0.025
0.000
−0.025
−0.050
−0.075
−0.100
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

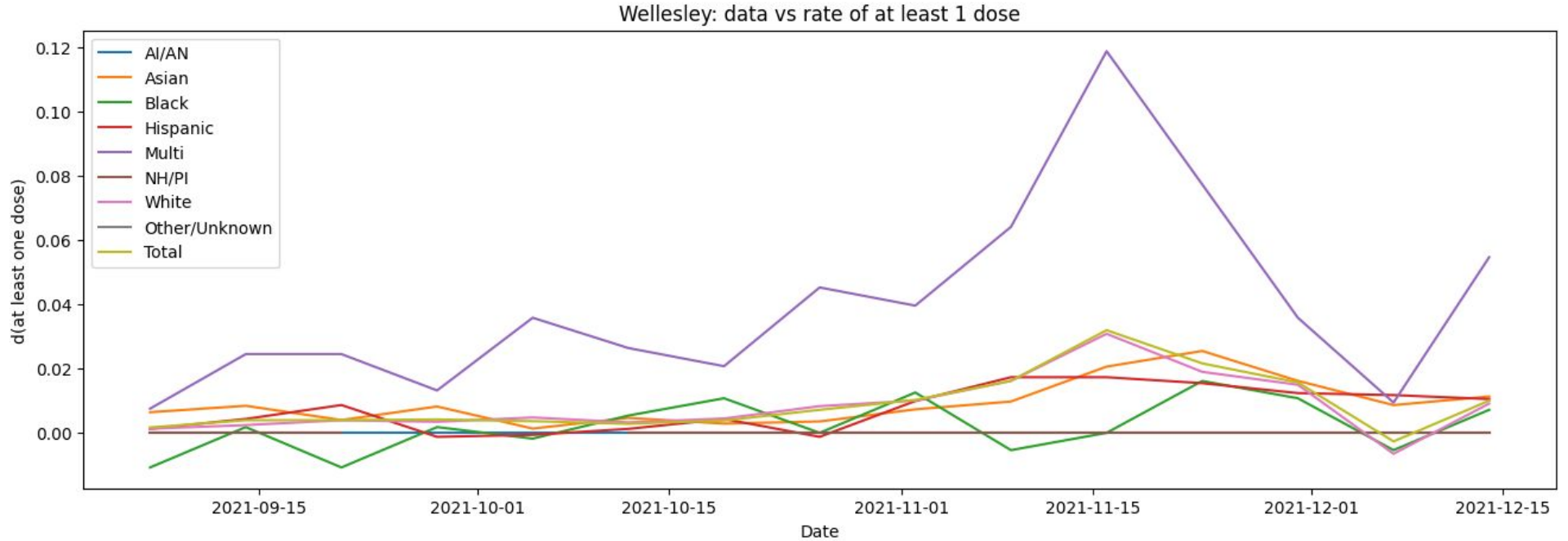

Wellesley: data vs rate of at least 1 dose
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total
d(at least one dose)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
−0.005
−0.010
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date

Late Vaccine Rollout

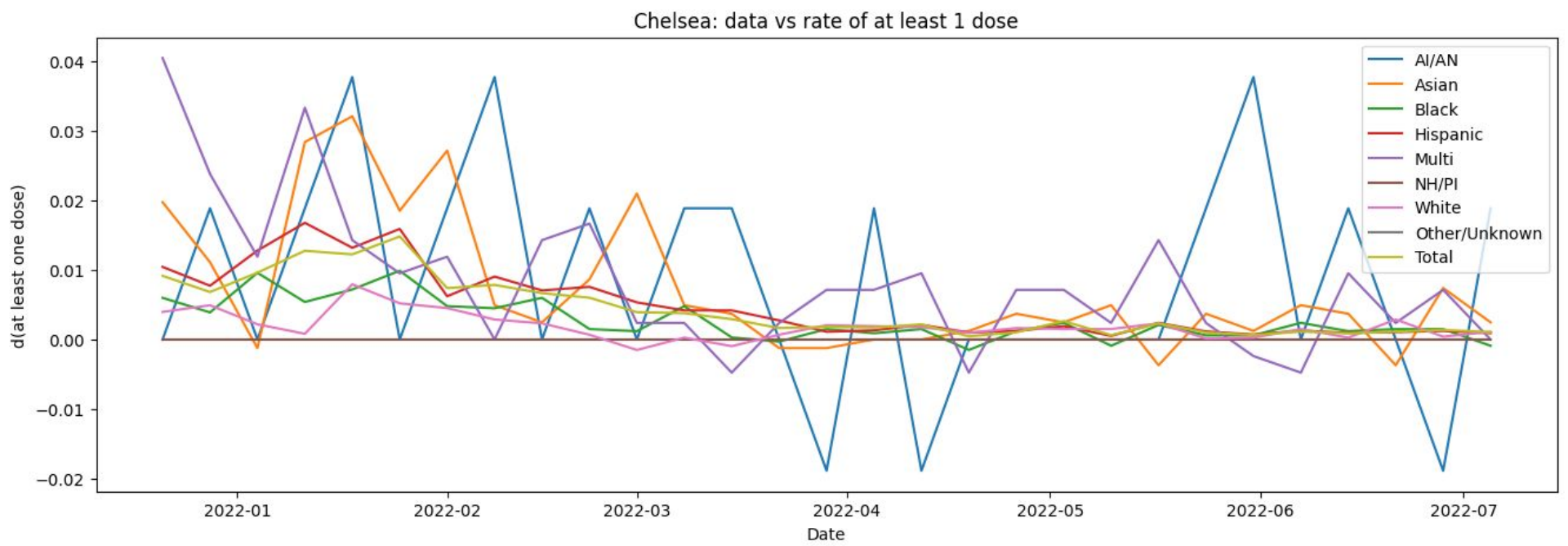


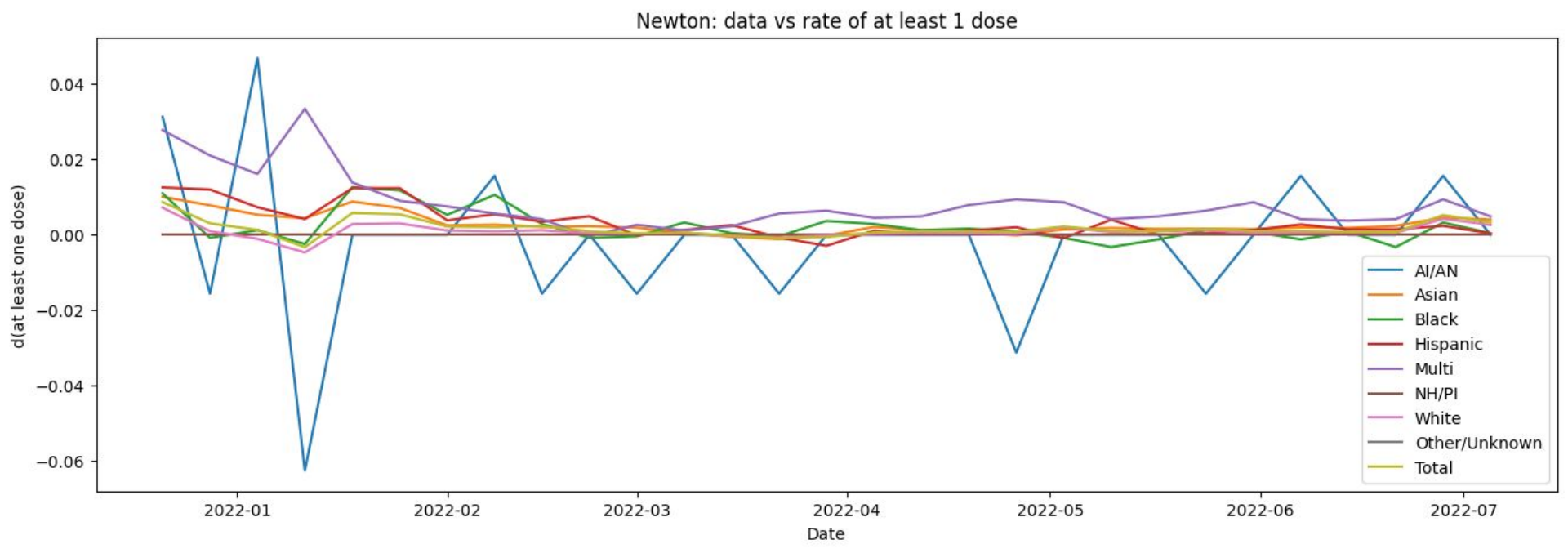

Newton: data vs rate of at least 1 dose
d(at least one dose)
0.10
0.05
0.00
−0.05
−0.10
−0.15
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

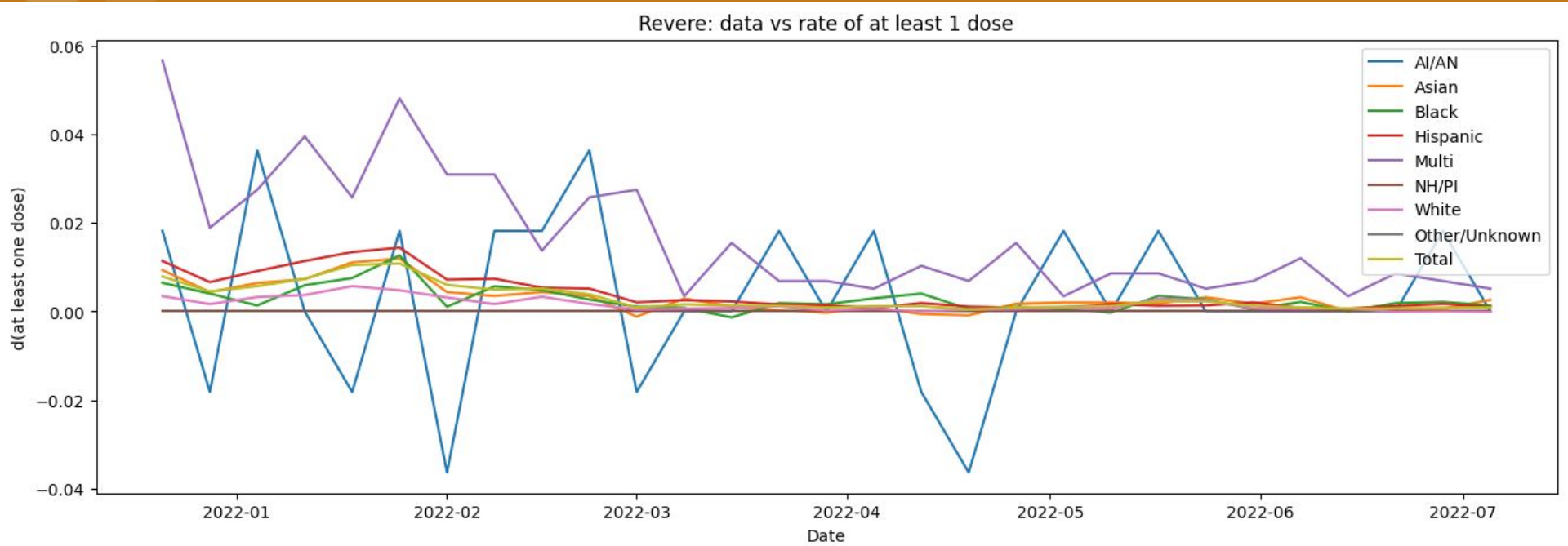

Revere: data vs rate of at least 1 dose
d(at least one dose)
0
−1
−2
−3
−4
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date

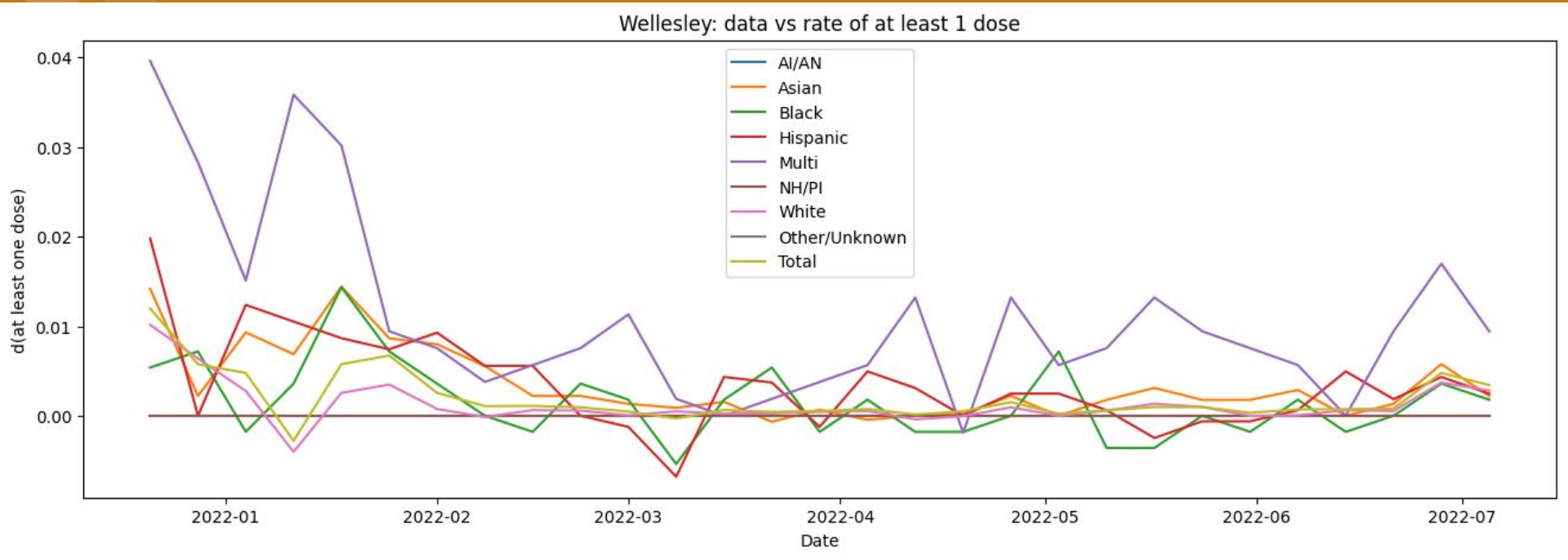

Wellesley: data vs rate of at least 1 dose
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total
d(at least one dose)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date

Booster 1 Rollout

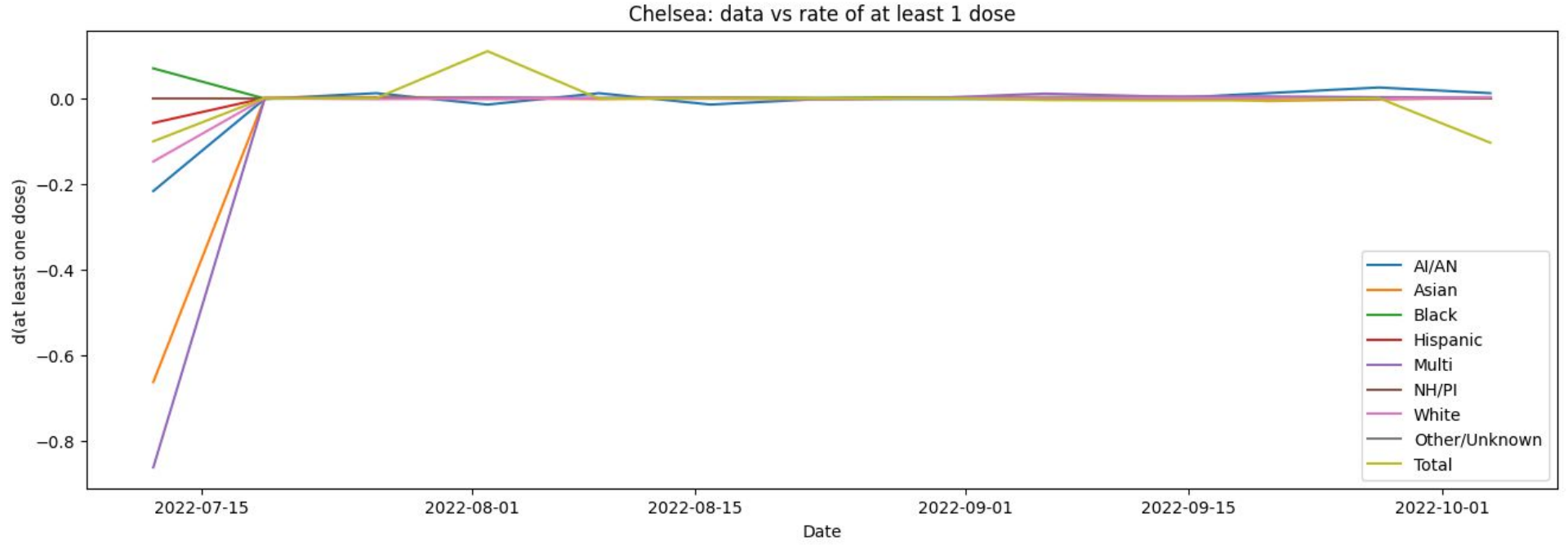


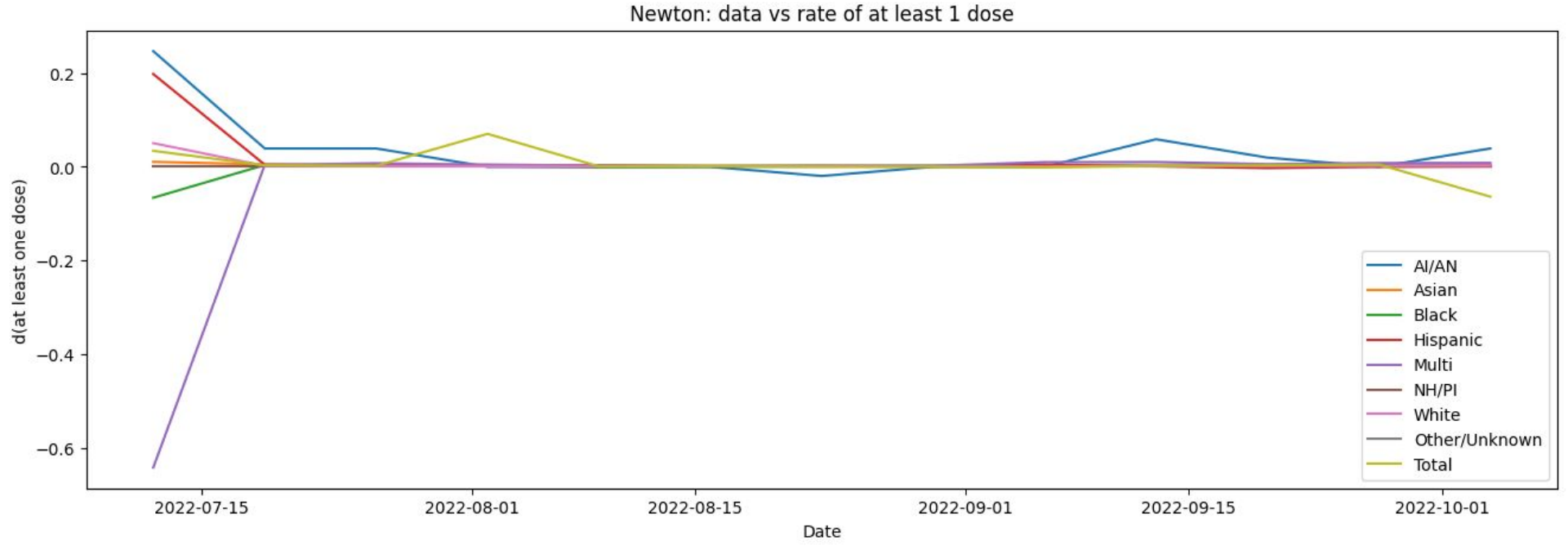

Newton: data vs rate of at least 1 dose
d(at least one dose)
0.04
0.02
0.00
−0.02
−0.04
−0.06
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

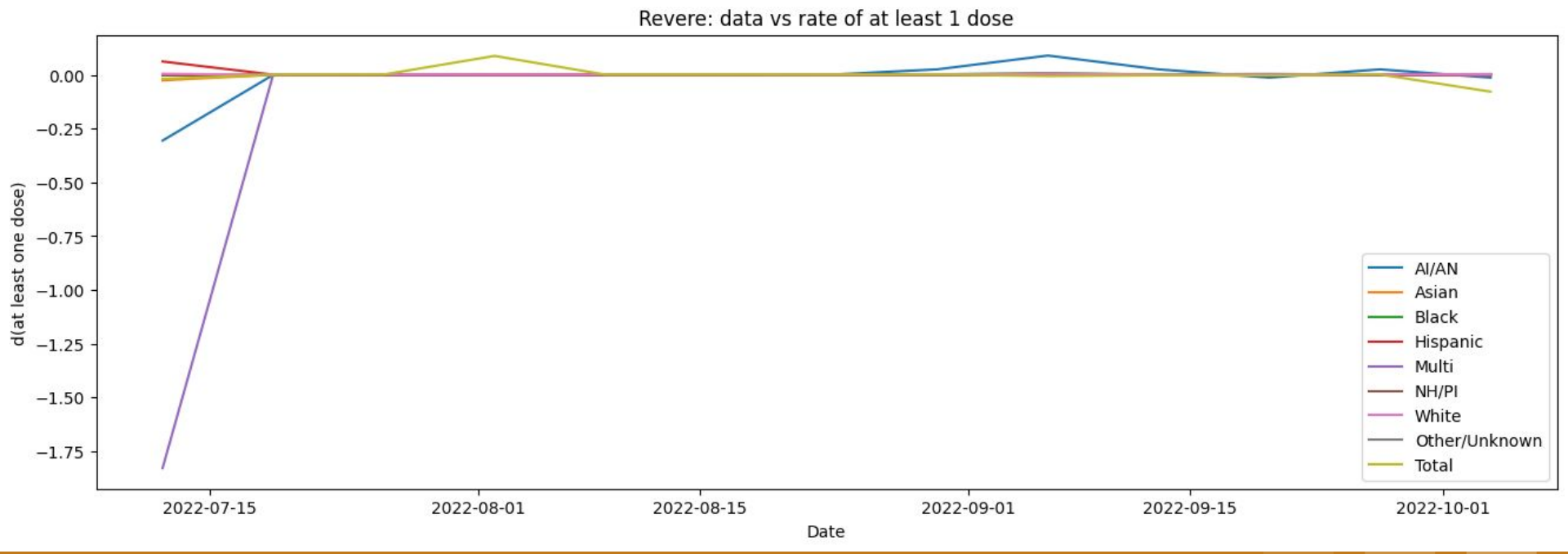

Revere: data vs rate of at least 1 dose
0.06
0.04
0.02
0.00
−0.02
−0.04
d(at least one dose)
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

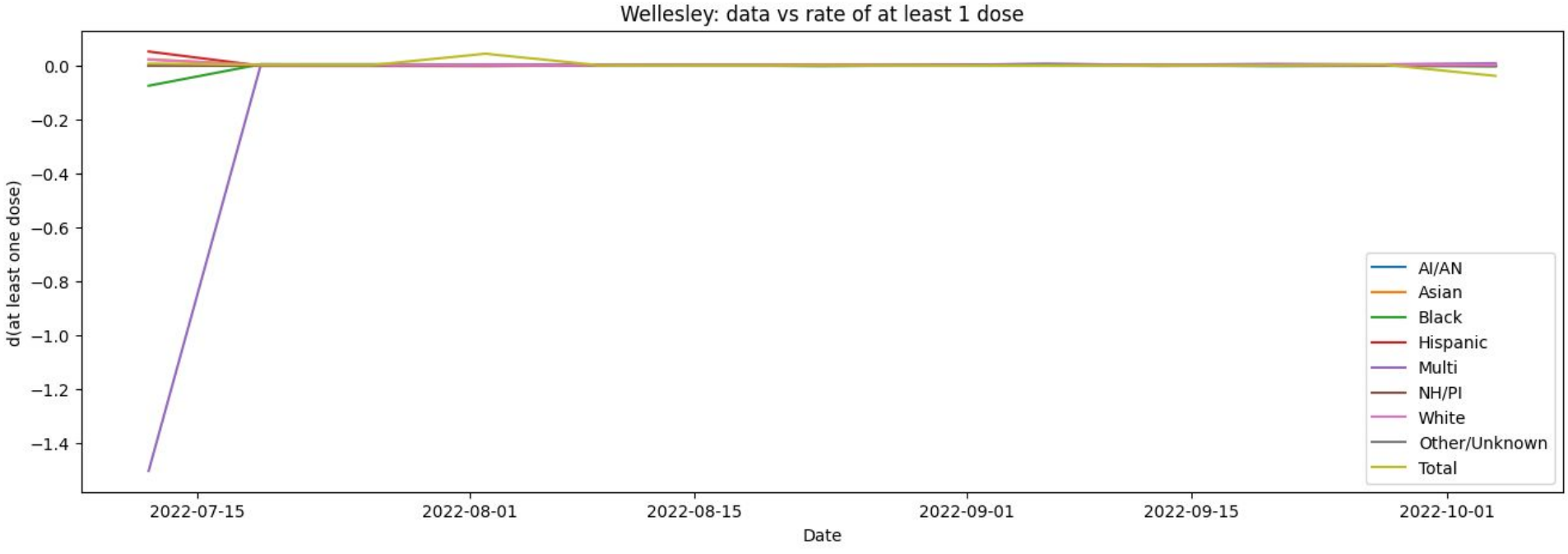

Wellesley: data vs rate of at least 1 dose
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total
d(at least one dose)
0.04
0.03
0.02
0.01
0.00
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date

Booster 2 Rollout




Newton: data vs rate of at least 1 dose
d(at least one dose)
0.2
0.0
−0.2
−0.4
−0.6
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

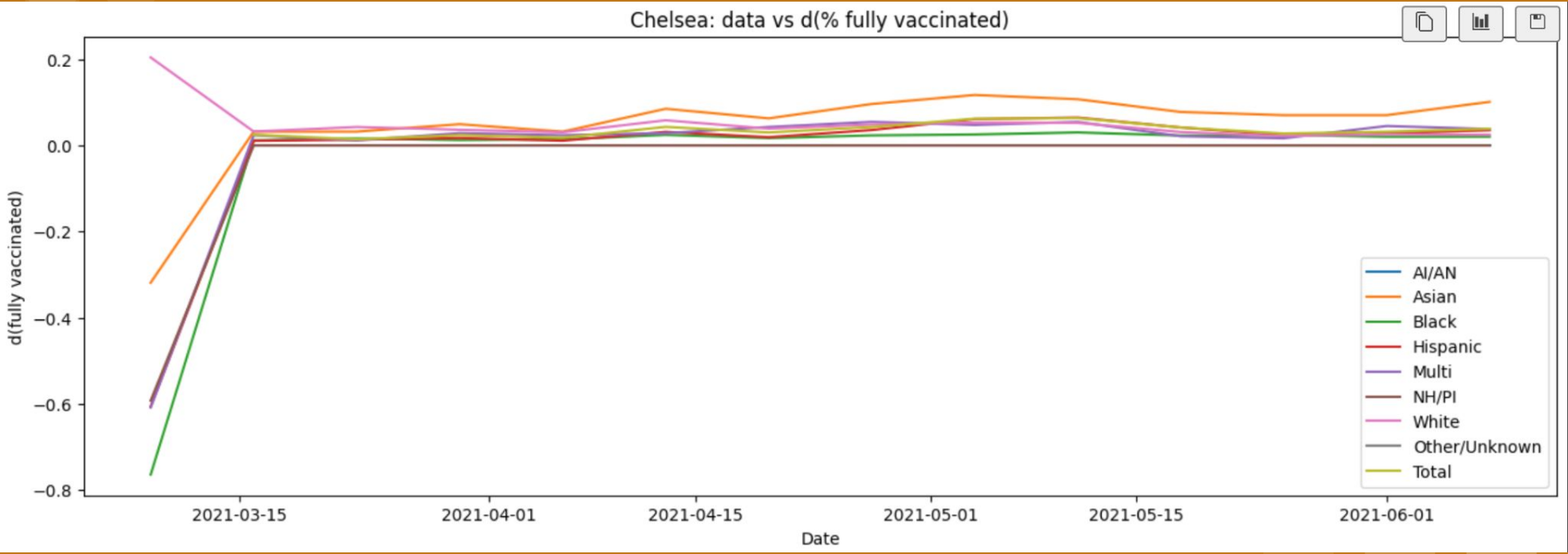

Revere: data vs rate of at least 1 dose
d(at least one dose)
0.00
−0.25
−0.50
−0.75
−1.00
−1.25
−1.50
−1.75
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

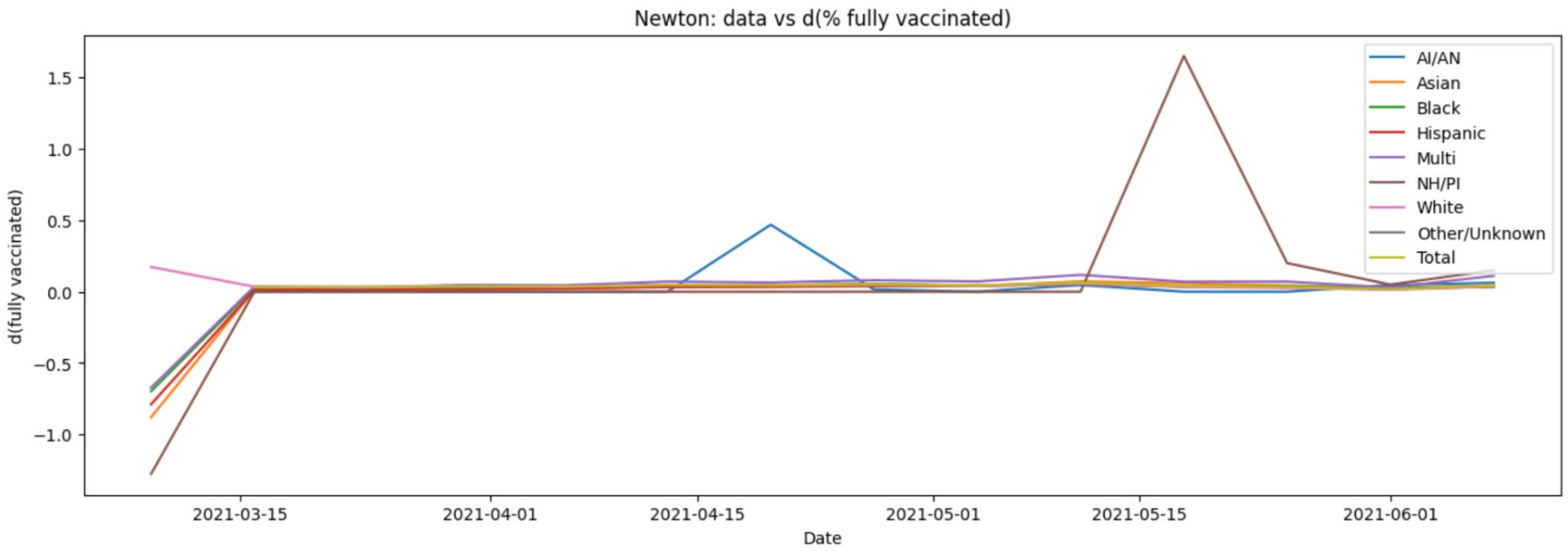

Wellesley: data vs rate of at least 1 dose
d(at least one dose)
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
−1.4
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

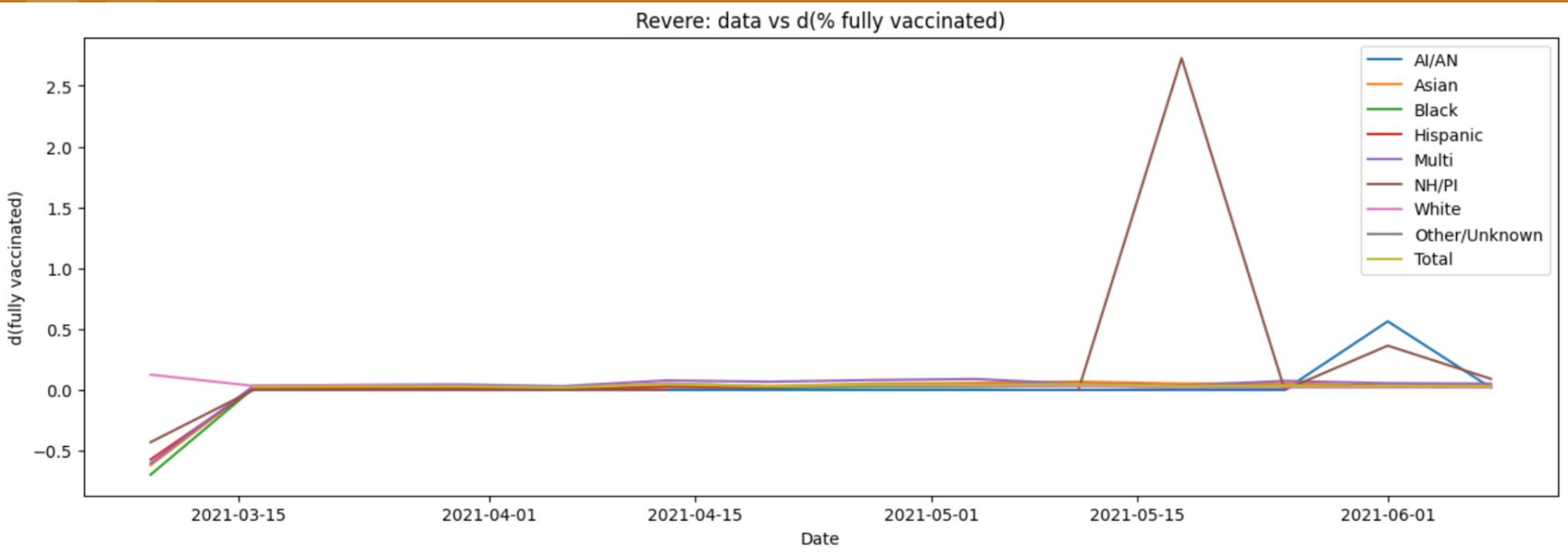
Data vs. Rate of % Fully Vaccinated by Race

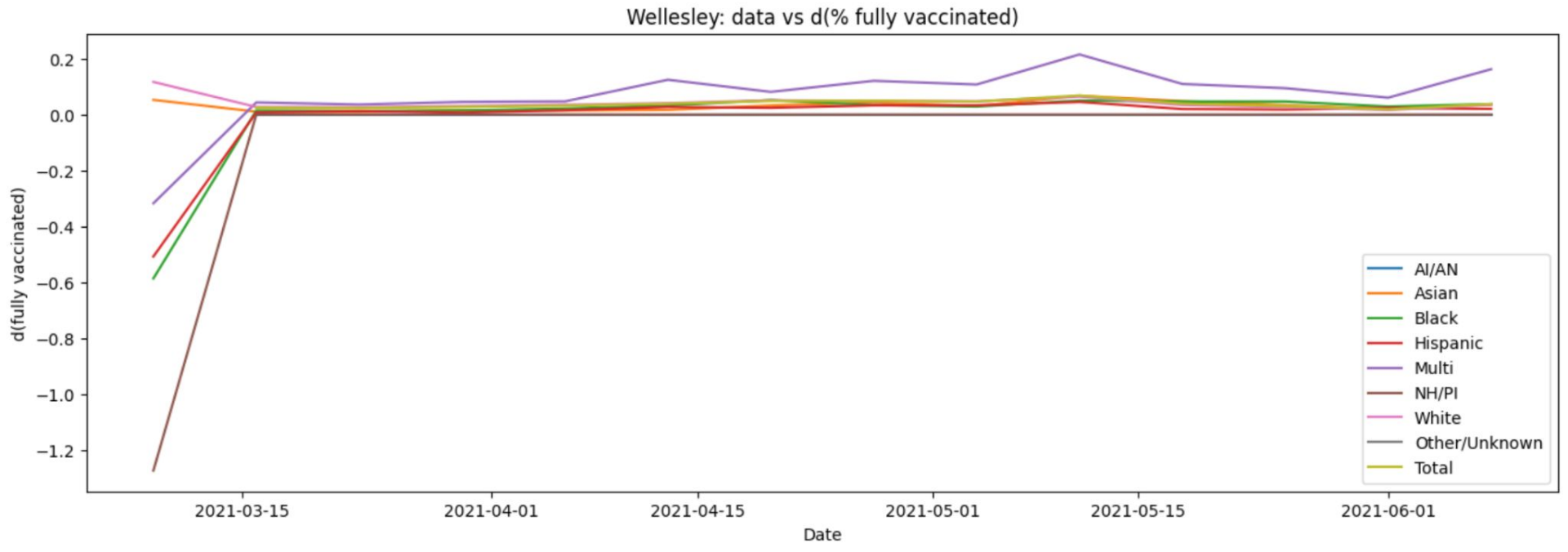
Each line corresponds to a race, and each graph corresponds to a region.

Early Vaccine Rollout

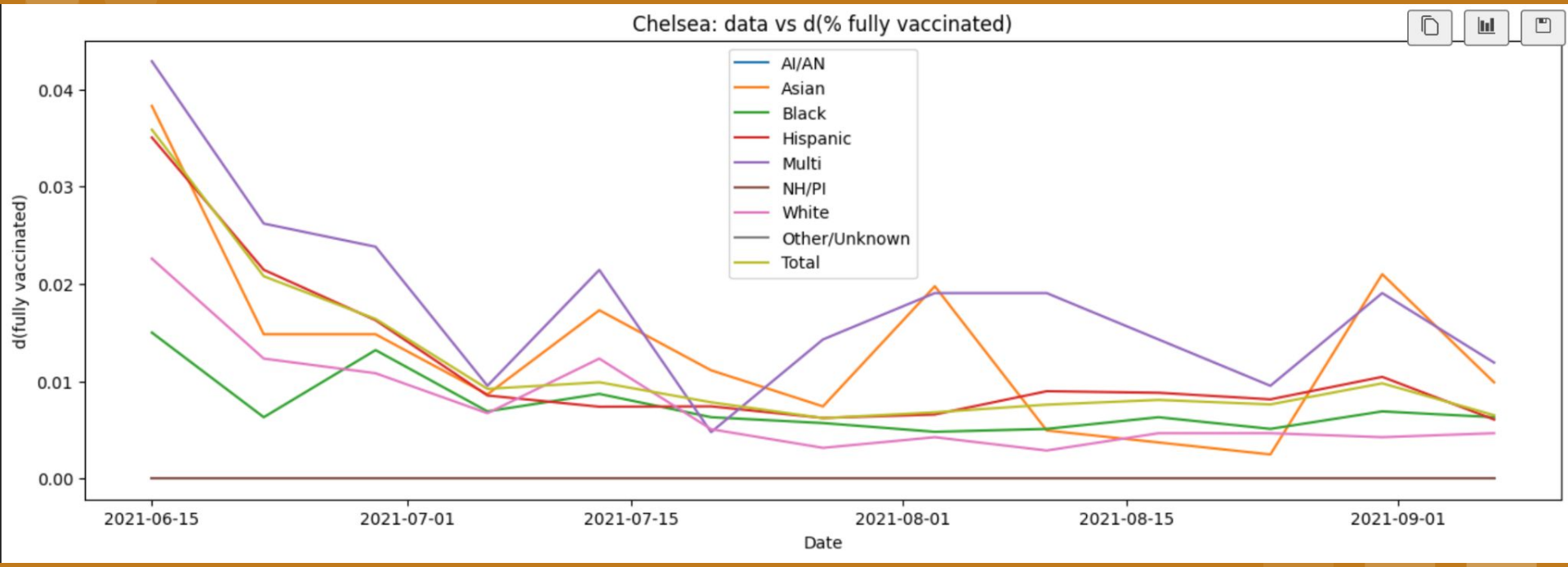


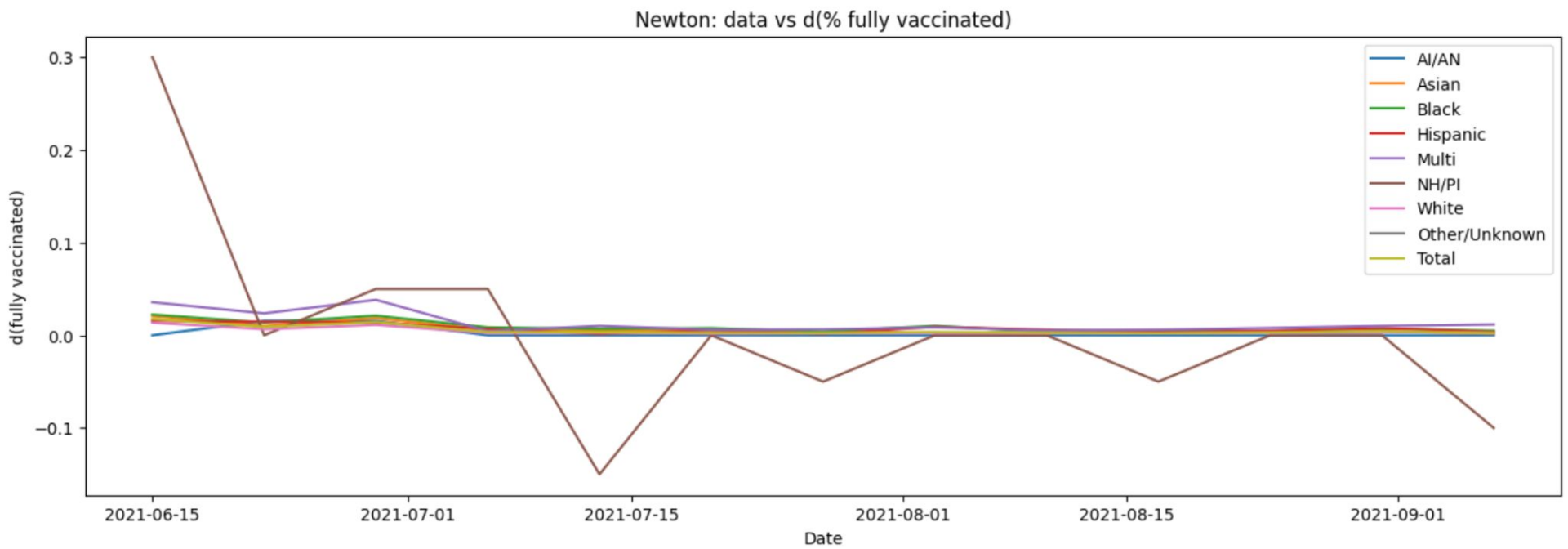

Newton: data vs d(% fully vaccinated)
d(fully vaccinated)
1.5
1.0
0.5
0.0
−0.5
−1.0
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
2021-06-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

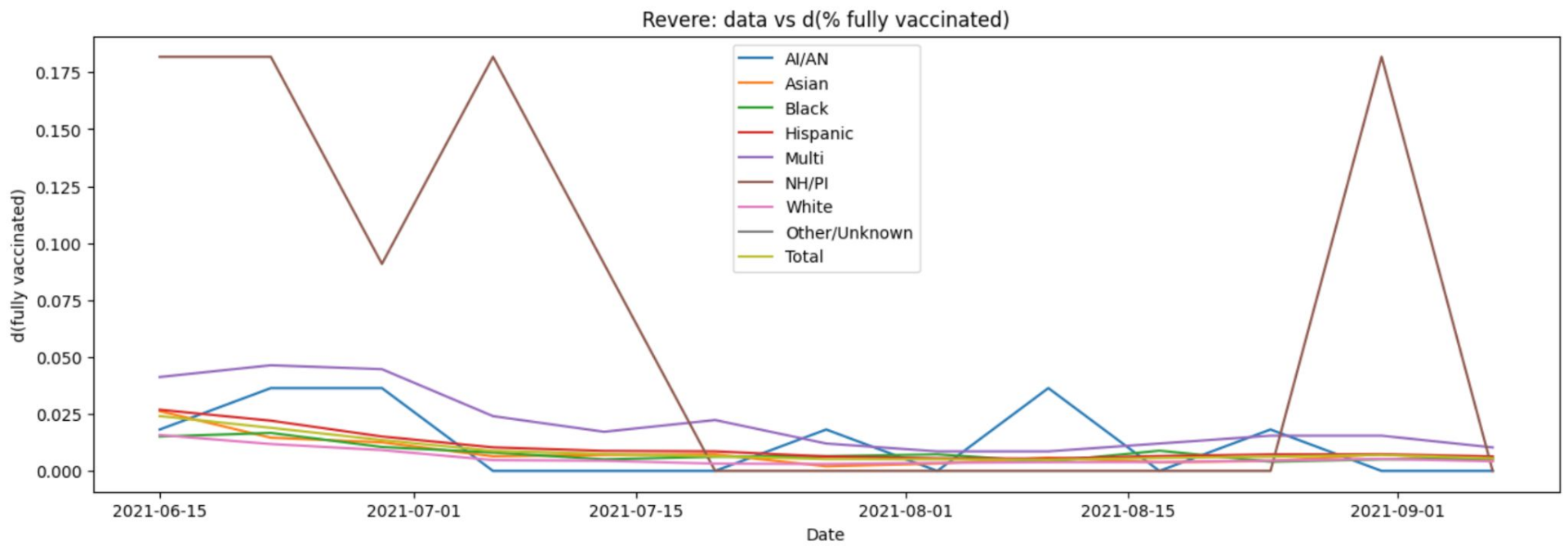

Revere: data vs d(% fully vaccinated)
d(fully vaccinated)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
2021-06-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

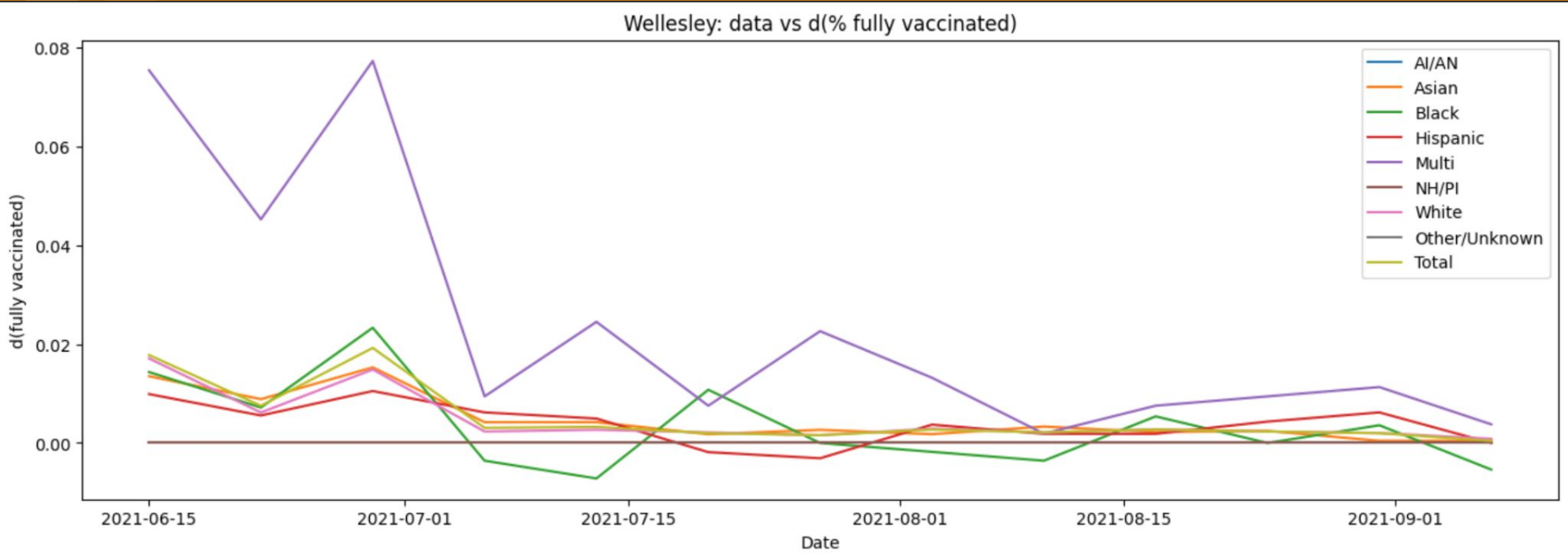

Wellesley: data vs d(% fully vaccinated)
d(fully vaccinated)
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
2021-03-15
2021-04-01
2021-04-15
2021-05-01
2021-05-15
2021-06-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

Middle Vaccine Rollout

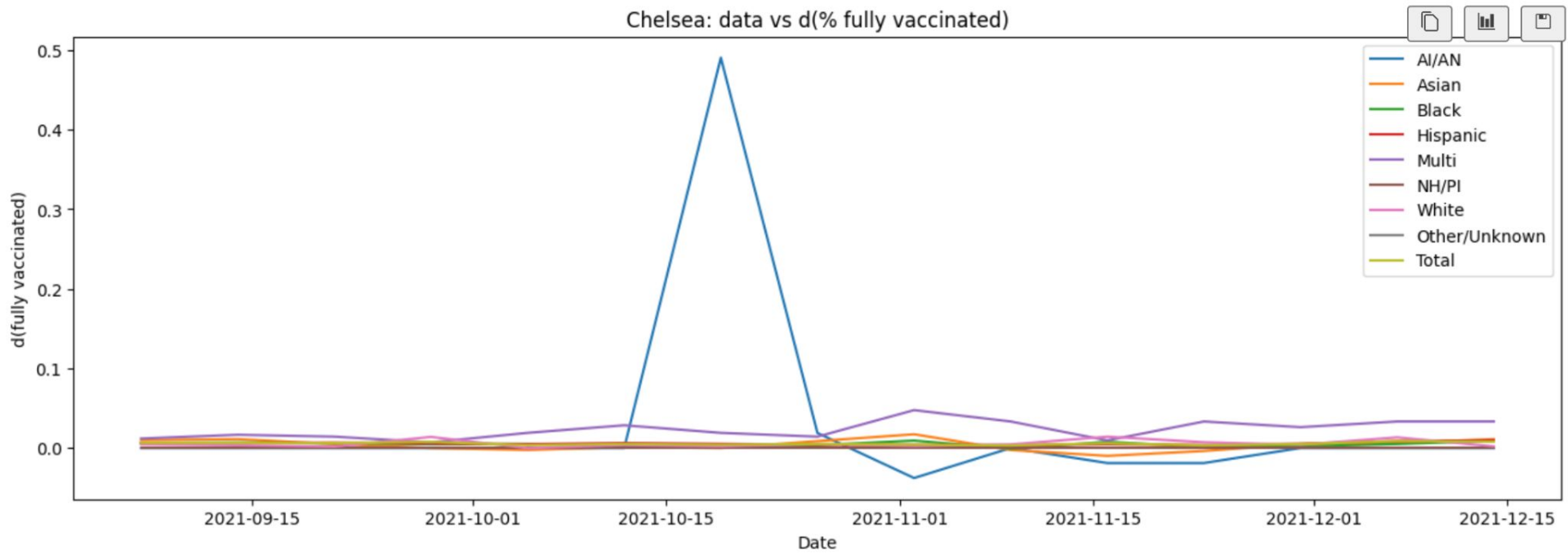


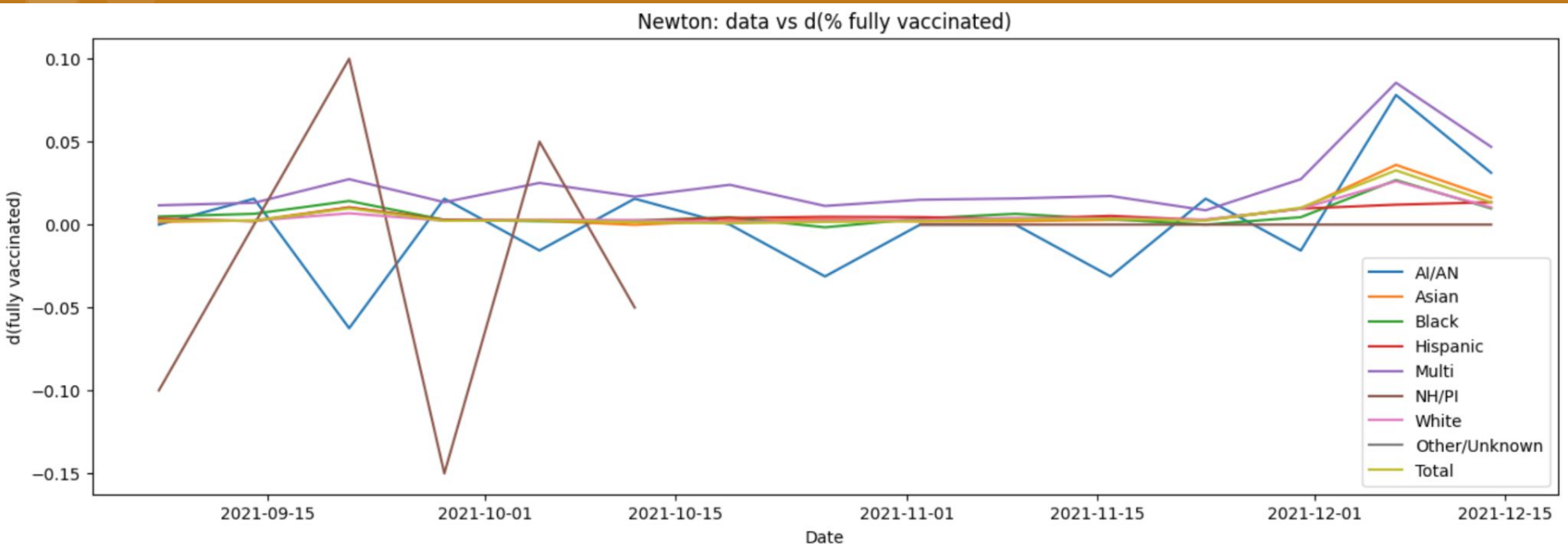

Newton: data vs d(% fully vaccinated)
d(fully vaccinated)
0.3
0.2
0.1
0.0
−0.1
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

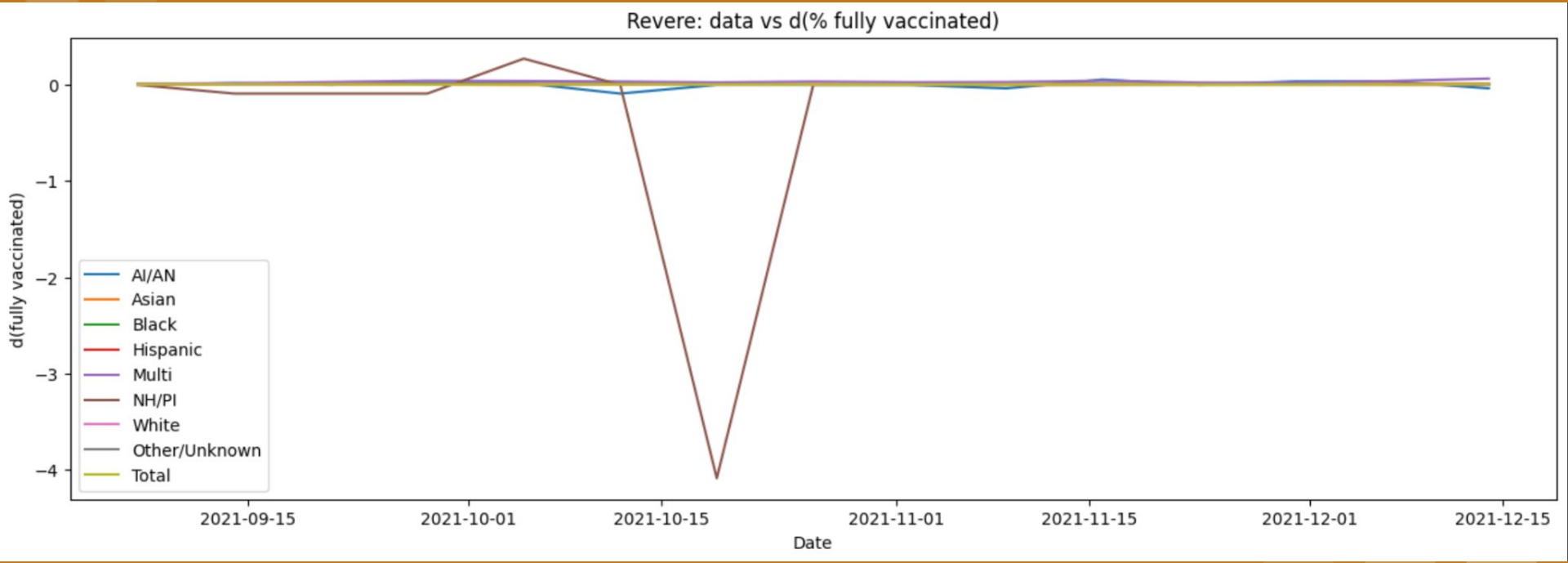

Revere: data vs d(% fully vaccinated)
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total
d(fully vaccinated)
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date

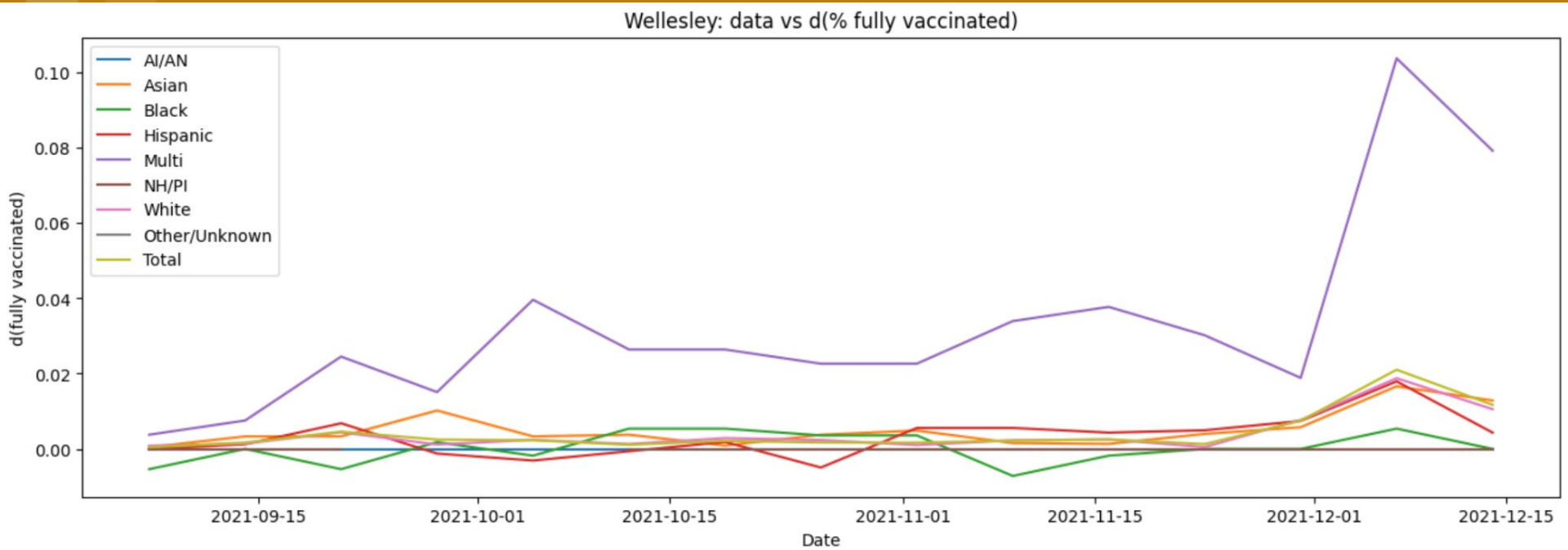

Wellesley: data vs d(% fully vaccinated)
d(fully vaccinated)
0.08
0.06
0.04
0.02
0.00
2021-06-15
2021-07-01
2021-07-15
2021-08-01
2021-08-15
2021-09-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

Late Vaccine Rollout

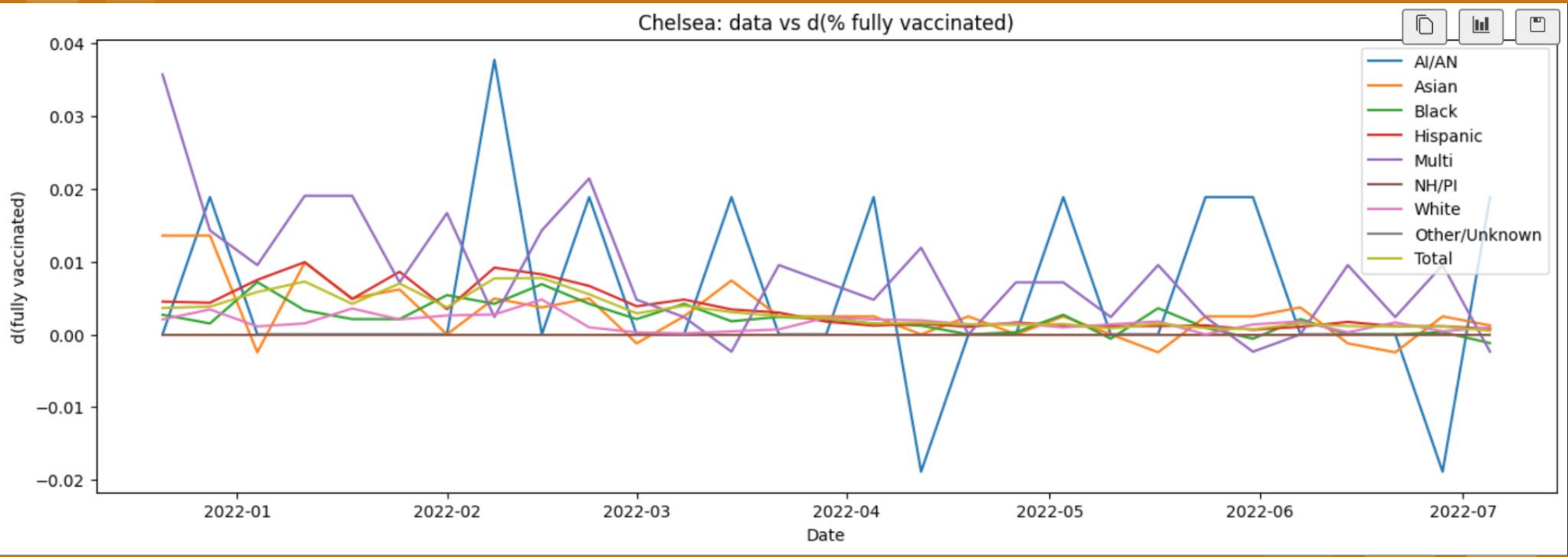


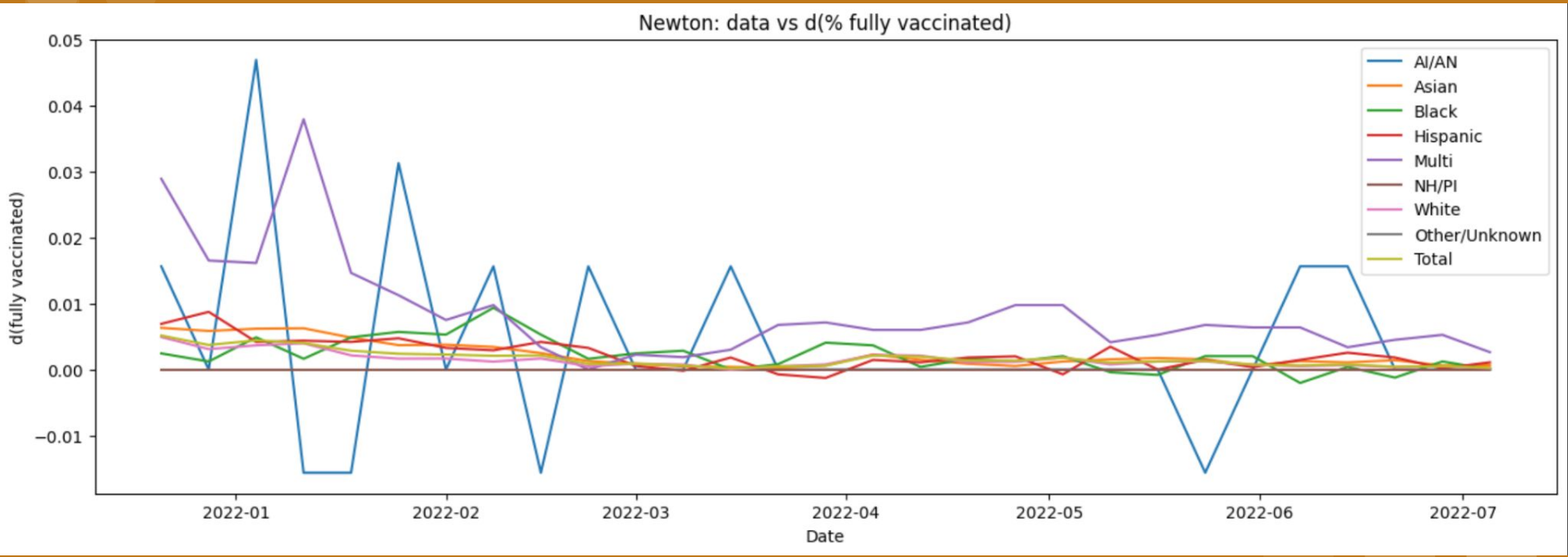

Newton: data vs d(% fully vaccinated)
0.10
0.05
0.00
−0.05
−0.10
−0.15
d(fully vaccinated)
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

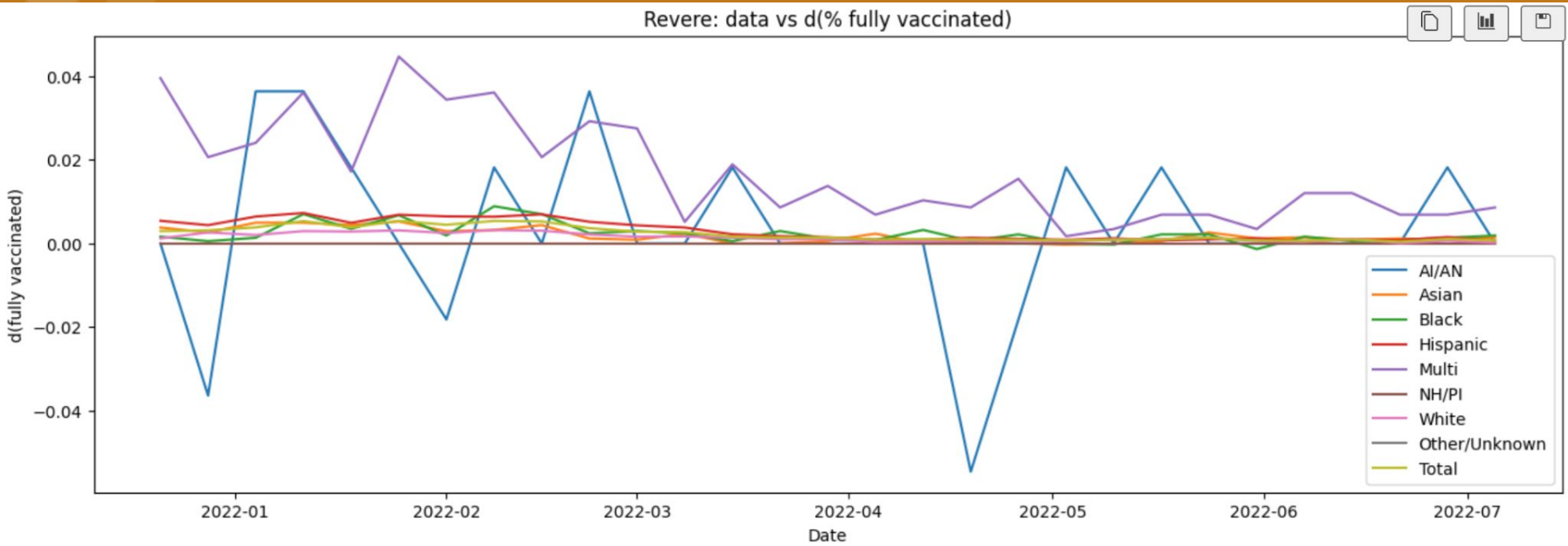

Revere: data vs d(% fully vaccinated)
d(fully vaccinated)
0
−1
−2
−3
−4
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date

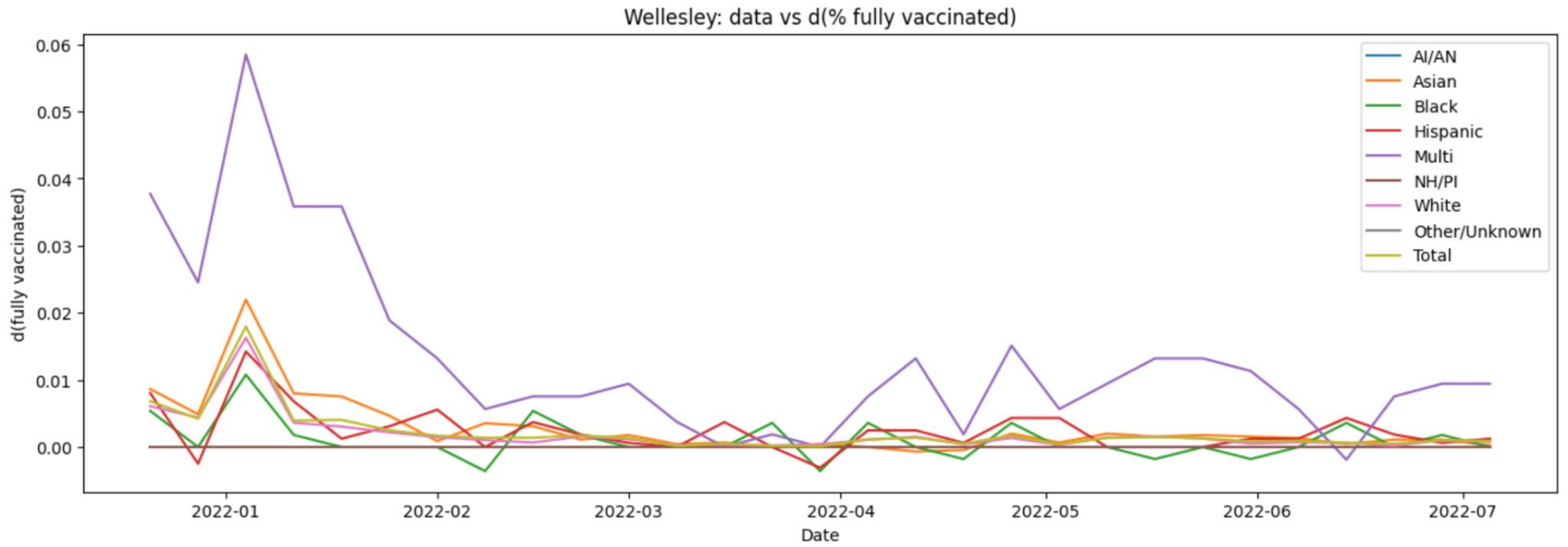

Wellesley: data vs d(% fully vaccinated)
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total
d(fully vaccinated)
0.10
0.08
0.06
0.04
0.02
0.00
2021-09-15
2021-10-01
2021-10-15
2021-11-01
2021-11-15
2021-12-01
2021-12-15
Date

Booster 1 Rollout

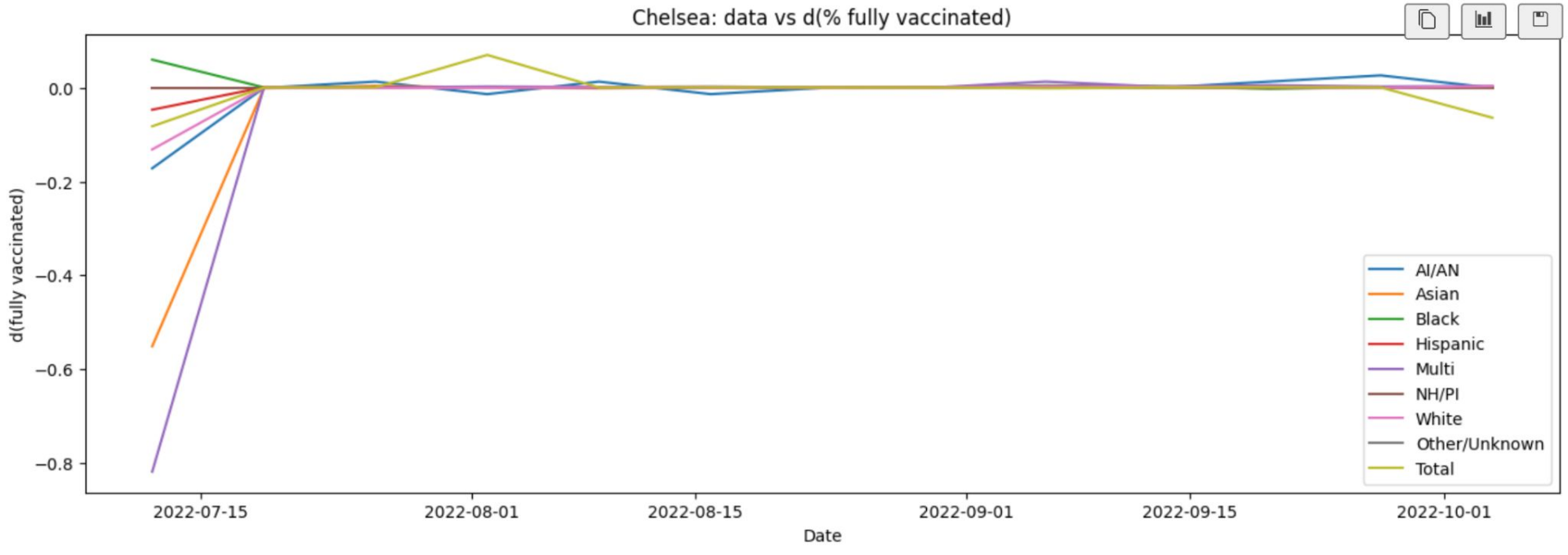


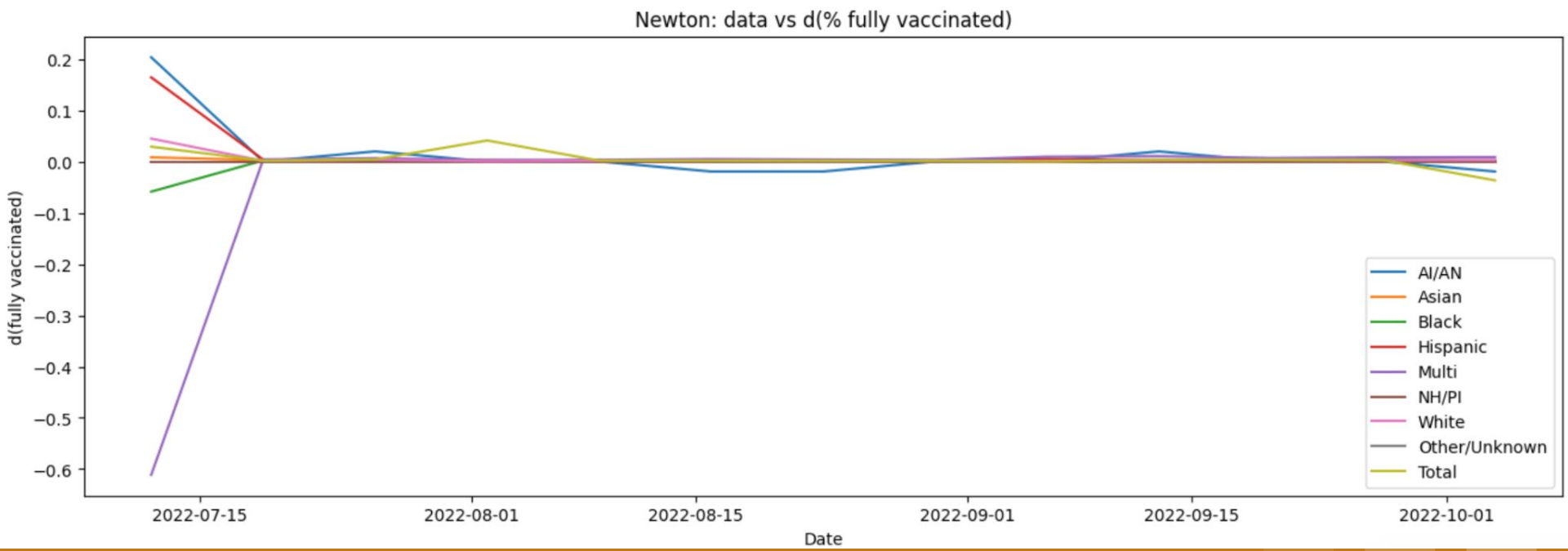

Newton: data vs d(% fully vaccinated)
d(fully vaccinated)
0.05
0.04
0.03
0.02
0.01
0.00
−0.01
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

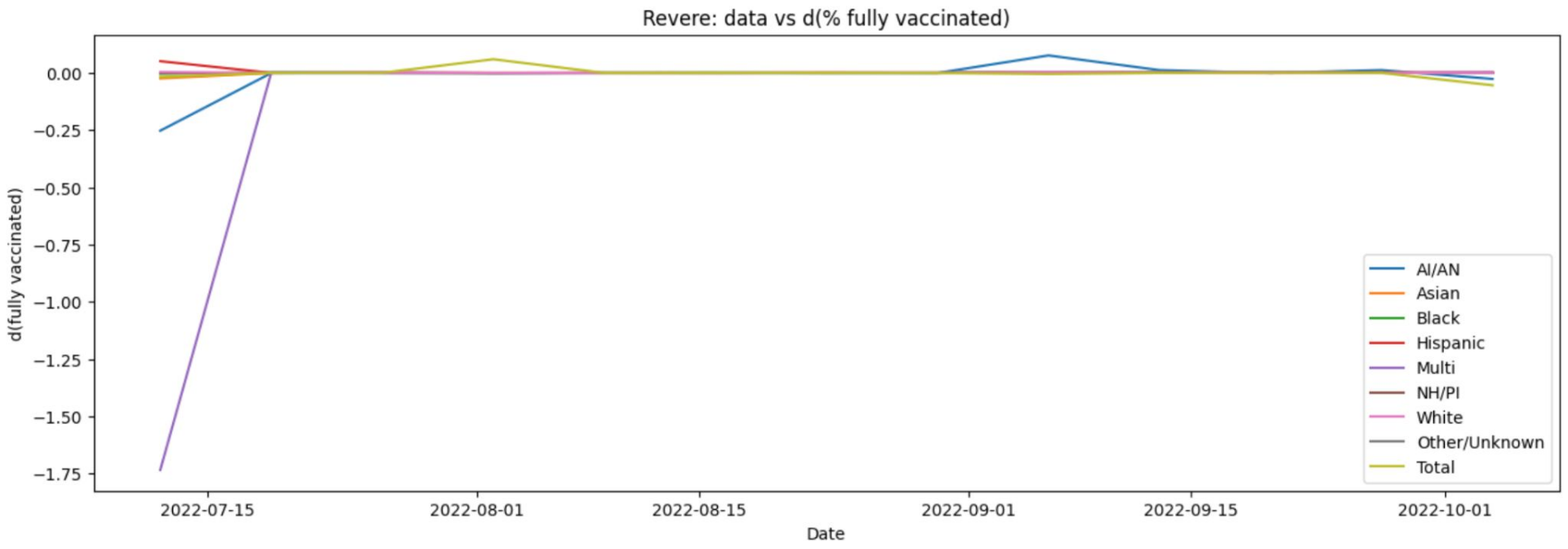

Revere: data vs d(% fully vaccinated)
0.04
0.02
0.00
−0.02
−0.04
d(fully vaccinated)
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

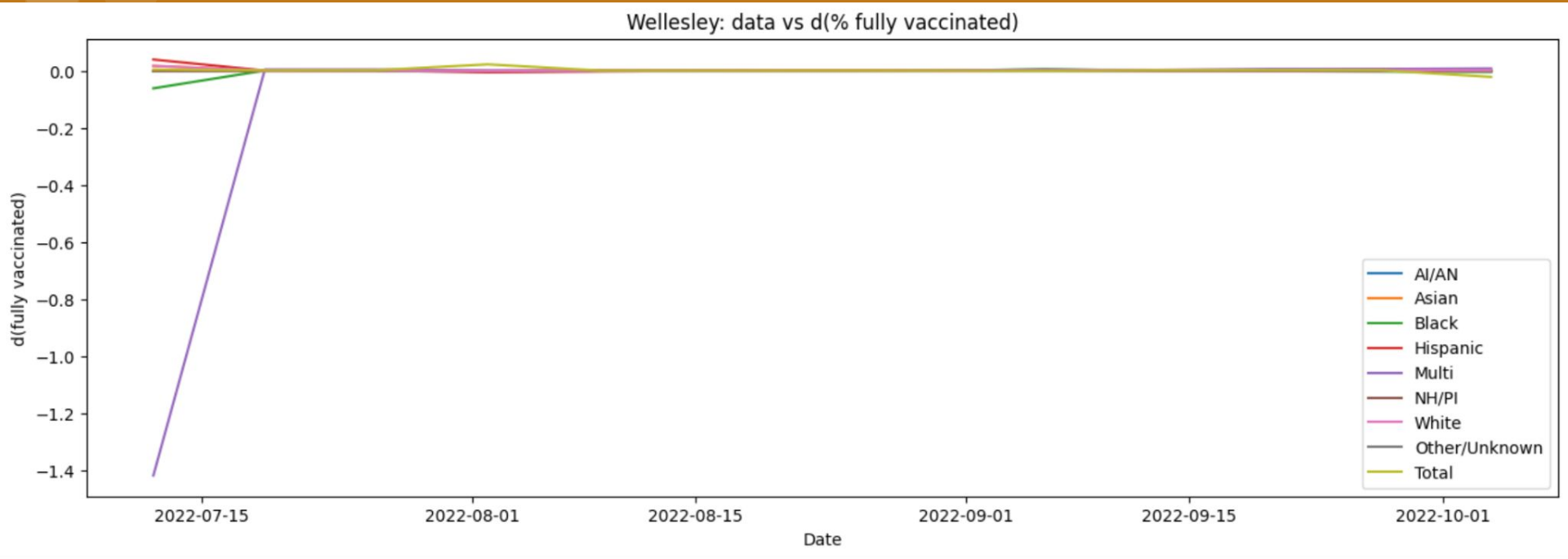

Wellesley: data vs d(% fully vaccinated)
d(fully vaccinated)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
2022-01
2022-02
2022-03
2022-04
2022-05
2022-06
2022-07
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

Booster 2 Rollout




Newton: data vs d(% fully vaccinated)
d(fully vaccinated)
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total


Revere: data vs d(% fully vaccinated)
d(fully vaccinated)
0.00
−0.25
−0.50
−0.75
−1.00
−1.25
−1.50
−1.75
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total


Wellesley: data vs d(% fully vaccinated)
d(fully vaccinated)
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
−1.4
2022-07-15
2022-08-01
2022-08-15
2022-09-01
2022-09-15
2022-10-01
Date
AI/AN
Asian
Black
Hispanic
Multi
NH/PI
White
Other/Unknown
Total

Challenges, Limitations

Some of the challenges that we have are directly tying the trends to real life events. As shown in the graphs above, there are a number of points where there are significant drops or spikes in rate - possibly because of some real life event.

Without a timeline of La Colaborativa, we cannot show an exact timeline of what happened with these rates.

Difficulty seeing very early trends as I think our early Covid time interval is too long. Need to reanalyze with smaller time interval.

Next steps

We intend to reanalyze early COVID vaccine rollouts over a shorter interval.

Tying some real life events to explain the timeline.

Figure out other data visualizations to better represent and understand the data.

Try find another dataset and analyze other trends.