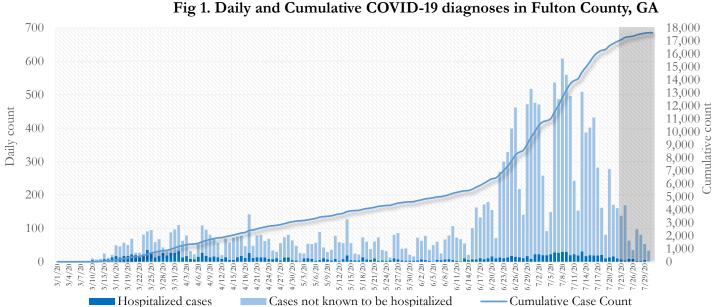


Fulton County Board of Health Epidemiology Report

COVID-19 Diagnoses – 7/31/2020

SUMMARY

- As of July 31, 2020, Fulton County has recorded **17,634** cases of the 2019 novel coronavirus (COVID-19) and **389** deaths.
- Of 4,064 **new diagnoses** made between July 11 and July 24, the central portion of the county (Atlanta metro) accounted for 40% while the northern and southern parts accounted for 26% and 20% respectively.
- By city, **new** COVID-19 diagnoses rates range from 190.1 per 100,000 persons (Johns Creek) to 503.2 per 100,000 persons (Palmetto). [Fulton County Diagnoses Rates (per 100,000 persons): Cumulative 1,657.4; Incident 382.0]. See map showing incident case rate by ZIP code on Pg.4.
- Among all persons diagnosed with COVID-19 in Fulton County, 9.9% required hospitalization and 2.2% died.
- Residents and staff of long-term care facilities account for 9.4% of COVID-19 diagnoses and 49.6% of COVID-19 deaths in Fulton County.



*Counts shown reflect the number of confirmed cases as of 9:00am on 7/31/20 using the date of first positive sample collection. Where date of sample collection was not available or missing, the date of report creation in GA SENDSS was used instead. **Note:** All data reported are preliminary and subject to change. Delays in data reporting may cause changes in data counts, particularly in the shaded portion.

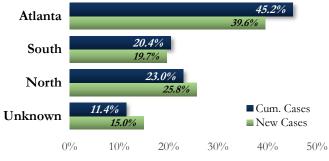
DISTRIBUTION OF COVID-19 DIAGNOSES BY REGION

New cases: 40% of the new COVID-19 cases diagnosed in the past 2 weeks occurred in Atlanta while 26% and 20% occurred in the Northern and Southern regions of the county respectively.

Fulton Docion	% Cumulative	% New	
Fulton Region	count	cases*	
Atlanta	45.2%	39.6%	
North ¹	23.0%	25.8%	
South ²	20.4%	19.7%	
Unincorporated/Unknown	11.4%	15.0%	

¹Includes all Fulton County cities north of Atlanta metro (Alpharetta, Milton, Johns Creek, Roswell, Sandy Springs, Mountain Park) |²Includes all cities south of Atlanta (College Park, Chattahoochee Hills, East Point, Hapeville, Palmetto, South Fulton, Fairburn, and Union City) *New cases: Cases diagnosed in the past 2 weeks only (between 7/11/20 – 7/24/20).

Fig. 2. Distribution of COVID 19 cases by Region

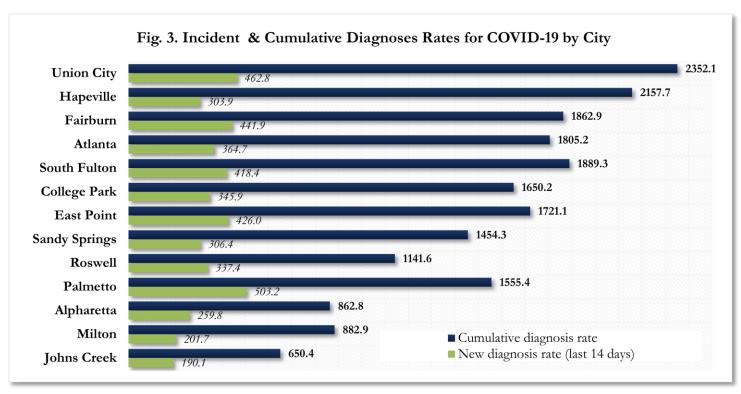


Percent of confirmed cases

COVID-19 CASE COUNTS AND RATES BY CITY

	Prior (7/29/20)	Current Total (7/31/20)			New Cases (Period: 6/26/20 – 7/24/20)1			
	Count	Count	0/0	Cum. Rate ²	Ist 14 d. (6/26–7/10)	Last 14 d. (7/11–7/24)	% change ³	Rate ⁴ (<i>Last 14 d</i>).
Atlanta	7705	7964	45.2%	1805.2	2614	1609	↓ 38.4%	364.7
South Fulton	1730	1797	10.2%	1889.3	599	398	↓ 33.6%	418.4
Sandy Springs	1456	1533	8.7%	1454.3	396	323	↓ 18.4%	306.4
Roswell	999	1076	6.1%	1141.6	280	318	† 13.6%	337.4
East Point	576	602	3.4%	1721.1	201	149	↓ 25.9%	426.0
Johns Creek	510	544	3.1%	650.4	144	159	† 10.4%	190.1
Union City	480	493	2.8%	2352.1	118	97	↓ 17.8%	462.8
Alpharetta	514	558	3.2%	862.8	157	168	↑ 7.0%	259.8
Milton	316	337	1.9%	882.9	119	77	↓ 35.3%	201.7
Fairburn	260	274	1.6%	1862.9	81	65	↓ 19.8%	441.9
College Park	219	229	1.3%	1650.2	63	48	↓ 23.8%	345.9
Palmetto	65	68	0.4%	1555.4	22	22	-	503.2
Hapeville	140	142	0.8%	2157.7	31	20	↓ 35.5%	303.9
Mountain Park	2	2	0.0%	320.0	0	<10	-	320.0
Unknown	1899	2015	11.4%	-	622	606	-	

*New cases: Cases diagnosed in most recent 28 days (based on reported dates of positive sample collection). To allow for lag in reporting results of new diagnoses from samples collected in the most recent week, data used for incident diagnoses analyses were moved back by one week. *Cumulative diagnosis rate: Population estimates from US Census Bureau used to calculate cumulative diagnoses rate. All rates shown are per 100,000 persons. *3% change: These reflect the percentage increase or decrease in new diagnoses between the 14 days preceding the most recent 7 days and the 14 days preceding that. Changes in cities with less than 10 cases in both 2 week intervals are not reported *(Incidence) Rate: Rate of new diagnoses in the last 14 day period preceding the immediate past week.**Data cleaning (either during case interviews or address geo-coding) may lead to reassignment of few cases from one territory to another based on their corrected addresses. These may appear as "decreases" when compared to the previous day's count. These do not reflect errors in the data collection or analysis process but only reflect the minor day-to-day fluctuations in case counts that arise in an evolving public health database like COVID's. Note: All data reported are preliminary and subject to change.



^{*}Rates shown are per 100,000 persons | **Note:** Mass testing in specific locations (e.g. long term care facilities) may cause sharp increases in the cumulative rate of COVID-19 diagnosis in those territories. All data shown are preliminary and are subject to change as testing results get updated.

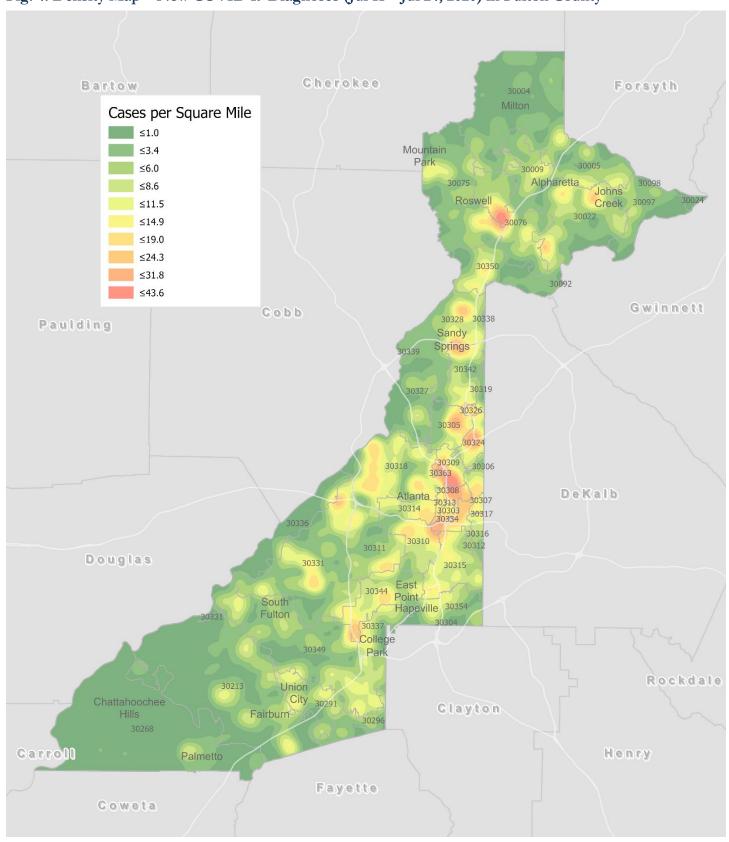


Fig. 4. Density Map – New COVID 19 Diagnoses (Jul 11 – Jul 24, 2020) in Fulton County

<u>New COVID-19 cases:</u> Cases diagnosed in most recent 14 days (based on reported dates of positive sample collection). To allow for lag in reporting results of positive cases from samples collected in the immediate past7 days, data used for incident diagnoses analyses are moved back by one week. Map reflects new COVID-19 cases diagnosed between July 11^{th} and $Jul 24^{th}$, 2020 across Fulton County.

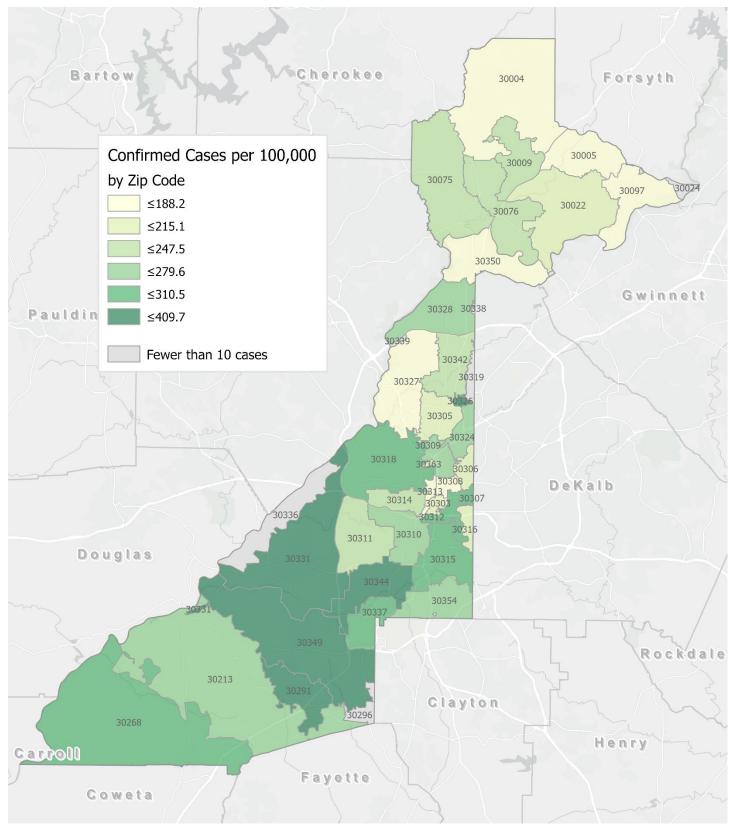


Fig. 5. New COVID-19 Diagnoses Rates (per 100,000 population) by ZIP Code (Jul 11 – Jul 24, 2020)

*Rates shown are per 100,000 populations.

New COVID-19 cases: Cases diagnosed in most recent 14 days (based on reported dates of positive sample collection). To allow for lag in reporting results of positive cases from samples collected in the immediate past7 days, data used for incident diagnoses analyses are moved back by one week. Data used excludes outbreak-related cases at long-term care facilities and map shown reflects only the new non-LTCF cases diagnosed between the dates shown in map title.

COVID-19 CASE COUNTS BY ZIP CODE

	Prior (7/29/20)	Current To	tal (7/31/20)		s (Period: 6/26/20 -	- 7/24/20)¹
	Count	Count	0/0	1st 14 days (Jun 26 – Jul 10)	Last 14 d. (Jul 11 – Jul 24)	% change ²
All Fulton	16871	17634	100.0%	5450	4064	↓ 25.4%
30331	1145	1185	6.7%	382	249	↓ 34.8%
30318	1037	1078	6.1%	332	263	↓ 20.8%
30349	1100	1146	6.5%	408	284	↓ 30.4%
30213	636	679	3.9%	189	163	↓ 13.8%
30315	497	516	2.9%	158	112	¥ 29.1%
30344	524	551	3.1%	173	142	J 17.9%
30311	495	516	2.9%	158	111	¥ 29.7%
30342	731	771	4.4%	201	167	↓ 16.9%
30314	403	408	2.3%	99	63	↓ 36.4%
30310	494	509	2.9%	147	95	J 35.4%
30308	319	331	1.9%	117	68	¥41.9%
30022	563	606	3.4%	186	185	↓ 0.5%
30327	314	317	1.8%	99	47	J 52.5%
30004	474	518	2.9%	187	134	↓ 28.3%
30309	520	538	3.1%	197	97	↓ 50.8%
30076	455	488	2.8%	141	156	↑ 10.6%
30291	509	526	3.0%	125	96	↓ 23.2%
30350	335	351	2.0%	58	78	† 34.5%
30075	519	567	3.2%	142	160	↑ 12.7%
30328	464	492	2.8%	161	116	↓ 28.0%
30316	260	273	1.5%	99	74	↓ 25.3%
30312	574	592	3.4%	163	105	↓ 35.6%
30005	252	265	1.5%	76	71	↓ 6.6%
30305	499	511	2.9%	166	83	↓ 50.0%
30306	204	214	1.2%	83	54	34.9%
30324	604	624	3.5%	238	104	↓ 56.3%
30337	204	214	1.2%	54	42	↓ 22.2%
30009	195	216	1.2%	56	68	↑ 21.4%
30313	108	110	0.6%	36	17	↓ 52.8%
30326	142	146	0.8%	48	29	↓ 39.6%
30097	122	125	0.7%	19	39	↑ 105.3%
30354	279	290	1.6%	90	53	↓ 41.1%
30303	327	330	1.9%	137	122	↓ 10.9%
30339	173	183	1.0%	106	44	↓ 58.5%
30268	103	108	0.6%	37	39	↑ 5.4%
30307	107	110	0.6%	42	36	↓ 14.3%
30319	87	89	0.5%	24	<10	↓ 70.8%
30336	63	65	0.4%	21	<10	↓ 66.7%
30296	30	30	0.2%	<10	<10	-
30363	47	49	0.3%	22	13	↓ 40.9%
30301	<10	<10	<0.1%	<10	0	↓ 100.0%
30345	30	30	0.2%	<10	<10	-
31131	<10	<10	<0.1%	<10	0	↓ 100.0%
30023	<10	<10	<0.1%	<10	0	↓ 100.0%
30080	<10	<10	<0.1%	0	<10	-
30135	<10	<10	<0.1%	0	<10	-
30138	<10	<10	<0.1%	0	0	-
30139	-	-	-	0	0	-
30321	<10	<10	<0.1%	<10	<10	-

30340	28	28	0.2%	<10	<10	-
30341	28	31	0.2%	<10	<10	-
30358	<10	<10	<0.1%	0	<10	-
30374	27	27	0.2%	<10	<10	-
30606	<10	<10	<0.1%	0	0	-
31150	<10	<10	<0.1%	0	0	-
30024	10	<10	<0.1%	<10	<10	-
30098	-	-	-	0	0	-
30334	12	12	<0.1%	<10	<10	-
30338	92	101	0.6%	49	36	↓ 26.5%
Unknown	688	718	4.1%	187	191	-

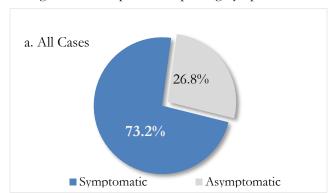
*New cases: Cases diagnosed in most recent 28 days (based on reported dates of positive sample collection). To allow for lag in reporting results of new diagnoses from samples collected in the most recent week, data used for incident diagnoses analyses were moved back by one week. *Percent change: These reflect the percentage increase or decrease of new diagnoses between the 14 days preceding the past 7 days and the 14 days preceding that. Changes in ZIP codes with less than 10 cases in both 2 week intervals are not reported**Data cleaning (either during case interviews or address geo-coding) may lead to reassignment of few cases from one territory to another based on their corrected addresses. These may appear as "decreases" when compared to the previous day's count. These do not reflect errors in the data collection or analysis process but only reflect the minor day-to-day fluctuations in case counts that arise in an evolving public health database like COVID's.

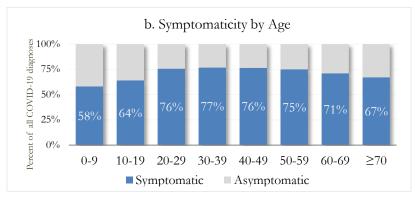
Note: Sharp increases in territorial COVID case counts often reflect new cases diagnosed at long term care facilities located in those territories during facility-wide /mass screening events All data reported are preliminary and subject to change.

REPORTING SYMPTOMS AMONG PERSONS DIAGNOSED WITH COVID-19 IN FULTON

People with COVID-19 have reported a wide range of symptoms ranging from mild symptoms to severe illness. Symptoms may appear 2-14 days after exposure to the virus. Symptoms reported include: cough, shortness of breath/difficulty breathing, fever, chills, repeated shaking with chills, muscle pain, headache, sore throat, new loss of taste or smell – Centers for Disease Control and Prevention (CDC) https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html

Fig. 6a & b. Proportion Reporting Symptoms in Fulton

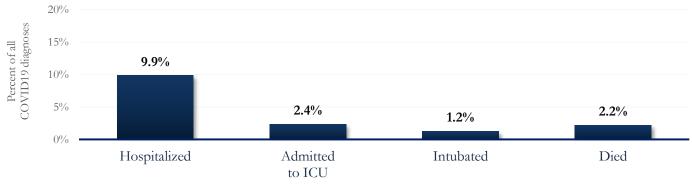




COVID-19 cases who have been case interviewed or had medical charts reviewed as at 7/31/20 only

COVID-19 HOSPITALIZATIONS, ICU ADMISSIONS AND DEATHS IN FULTON

Fig. 7. Hospitalizations, ICU Admissions and Deaths among COVID-19 Diagnoses in Fulton County



DEMOGRAPHIC DISTRIBUTIONS - COVID 19 DIAGNOSES AND DEATHS

A. Distribution of COVID-19 diagnoses in Fulton County by Fulton Region

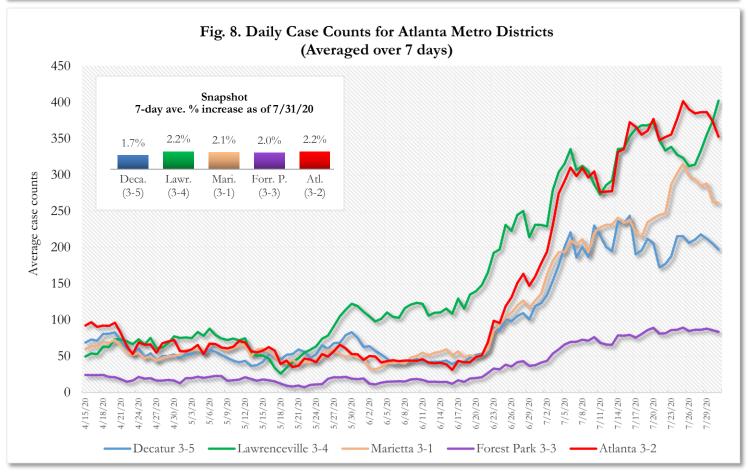
		North Fulton Cities ¹	Atlanta	South Fulton Cities ²	Unknown City	All Fulton
		Count (%)	Count (%)	Count (%)	Count (%)	Count (%)
Total COVID-19 cases		4050	7964	3605	2015	17634
Gende	r: Female	1978 (48.8%)	3733 (46.9%)	1944 (53.9%)	978 (48.5%)	8633 (49.0%)
	Male	1889 (46.6%)	3608 (45.3%)	1427 (39.6%)	906 (45.0%)	7830 (44.4%)
	Unknown	183 (4.5%)	623 (7.8%)	234 (6.5%)	131 (6.5%)	1171 (6.6%)
Age:	0-9	107 (2.6%)	123 (1.5%)	86 (2.4%)	53 (2.6%)	369 (2.1%)
	10-19	490 (12.1%)	460 (5.8%)	207 (5.7%)	124 (6.2%)	1281 (7.3%)
	20-29	918 (22.7%)	2290 (28.8%)	712 (19.8%)	535 (26.6%)	4455 (25.3%)
	30-39	672 (16.6%)	1737 (21.8%)	717 (19.9%)	433 (21.5%)	3559 (20.2%)
	40-49	639 (15.8%)	1048 (13.2%)	644 (17.9%)	309 (15.3%)	2640 (15.0%)
	50-59	567 (14.0%)	890 (11.2%)	516 (14.3%)	244 (12.1%)	2217 (12.6%)
	60-69	323 (8.0%)	609 (7.6%)	369 (10.2%)	144 (7.1%)	1445 (8.2%)
	≥70	329 (8.1%)	788 (9.9%)	344 (9.5%)	167 (8.3%)	1628 (9.2%)
	Unknown	<10	19 (0.2%)	10 (0.3%)	<10	40 (0.2%)
Race:	Asian, NH	94 (2.3%)	100 (1.3%)	12 (0.3%)	30 (1.5%)	236 (1.3%)
	Black, NH	413 (10.2%)	3306 (41.5%)	2042 (56.6%)	543 (26.9%)	6304 (35.7%)
	White, NH	1102 (27.2%)	1280 (16.1%)	134 (3.7%)	352 (17.5%)	2868 (16.3%)
	Hispanic	665 (16.4%)	437 (5.5%)	205 (5.7%)	220 (10.9%)	1527 (8.7%)
	Other, NH	154 (3.8%)	201 (2.5%)	61 (1.7%)	76 (3.8%)	492 (2.8%)
	Unknown	1622 (40.0%)	2640 (33.1%)	1151 (31.9%)	794 (39.4%)	6207 (35.2%)

B. Distribution of COVID-19 deaths in Fulton County by Fulton Region

		North Fulton Cities ¹ Count (%)	Atlanta Count (%)	South Fulton Cities ² Count (%)	Unknown City Count (%)	All Fulton Count (%)
Total	COVID-19 deaths	63	183	101	34	381
Gender: Female		26 (41.3%)	80 (43.7%)	54 (53.5%)	21 (61.8%)	181 (47.5%)
	Male	40 (63.5%)	108 (59.0%)	47 (46.5%)	13 (38.2%)	208 (54.6%)
	Unknown	0	0	0	0	0
Age:	≤ 29	0	<10	<10	0	<10
	30-39	<10	<10	<10	0	<10
	40-49	<10	<10	<10	0	11 (2.9%)
	50-59	<10	13 (7.1%)	11 (10.9%)	<10	28 (7.3%)
	60-69	<10	37 (20.2%)	26 (25.7%)	<10	73 (19.2%)
	≥70	52 (82.5%)	128 (69.9%)	58 (57.4%)	29 (85.3%)	267 (70.1%)
	Unknown	0	0	0	0	0
Race:	Asian, NH	0	<10	0	<10	<10
	Black, NH	13 (20.6%)	157 (85.8%)	88 (87.1%)	18 (52.9%)	276 (72.4%)
	White, NH	48 (76.2%)	21 (11.5%)	<10	13 (38.2%)	91 (23.9%)
	Hispanic	<10	<10	<10	<10	13 (3.4%)
	Other, NH	0	<10	<10	0	<10
	Unknown	<10	<10	0	0	<10

¹Includes all Fulton County cities north of Atlanta metro (Alpharetta, Milton, Johns Creek, Roswell, Sandy Springs, Mountain Park) ²Includes all cities south of Atlanta (College Park, Chattahoochee Hills, East Point, Hapeville, Palmetto, South Fulton, Fairburn, Union City). Note: All data reported are preliminary and subject to change.

COVID-19 CASE TRENDS IN FULTON AND SURROUNDING DISTRICTS

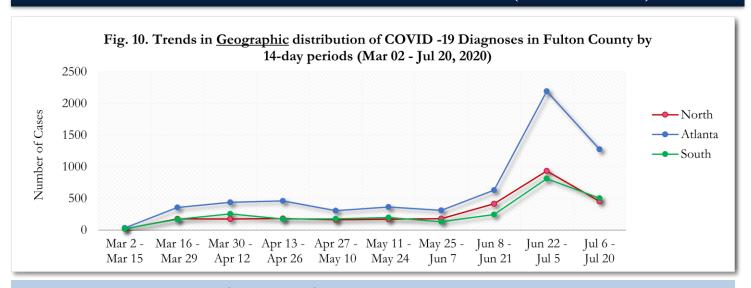


^{*}Graph shows the average number of cases calculated from the daily cumulative case counts in the metro Atlanta districts. Increases in daily cumulative case counts may include cases diagnosed earlier during the pandemic but were only recently reported to the state as cases diagnosed belonging to these districts.

Hall Forsyth Bartow Cherokee Jackson P61k Barrow Cobb Paulding Gwinnett -Oconee anville Walton DeKalb Douglas Rockdale Morgan Riverdale Clayton Newton Carroll Henry Favette **Health Districts** Cases per Square Mile ≤1.0 ≤3.3 Jasper ≤5.9 Spalding 3-4 ≤8.7 3-1 ≤11.6 3-5 ≤14.9 ≤19.1 ≤24.4 Troup ≤32.6 Jones Pike Ionroe ≤50.1 4.Upson

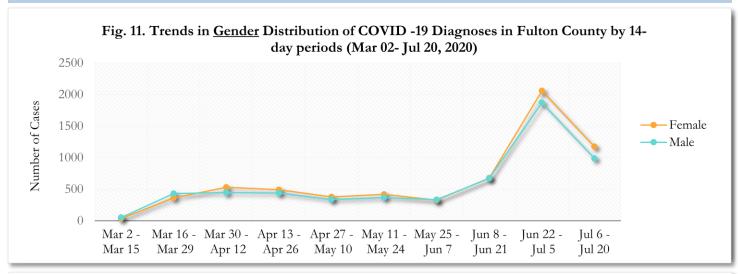
Fig. 9. COVID-19 Cases in Fulton County and Surrounding Districts (Jul 11 – Jul 24, 2020)

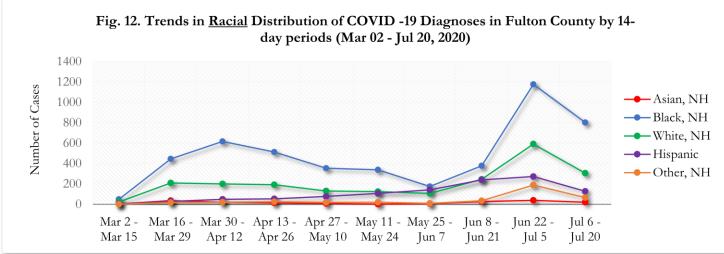
TRENDS IN COVID-19 CASES AMONG DEMOGRAPHIC GROUPS (14 DAY PERIODS)



Atlanta metro has consistently accounted for the majority of newly diagnosed cases in Fulton County.

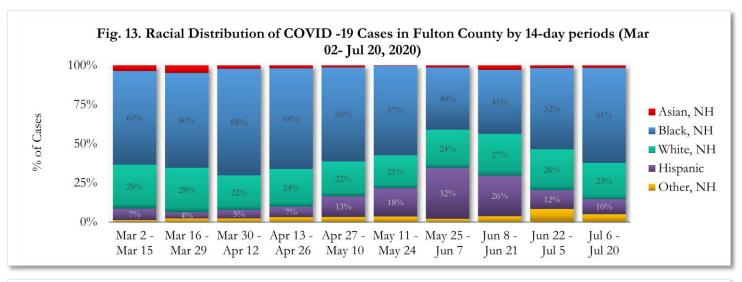
^{*}South - Includes all Fulton cities south of Atlanta (College Park, Chattahoochee Hills, East Point, Hapeville, Palmetto, South Fulton, Fairburn, and Union City)

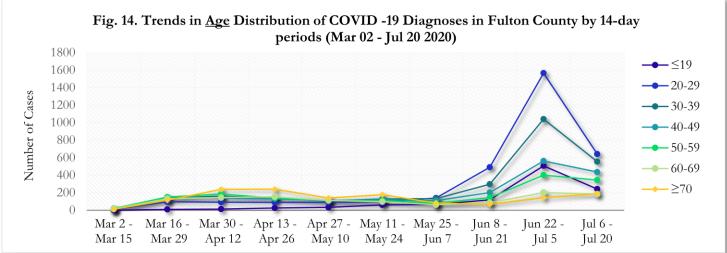




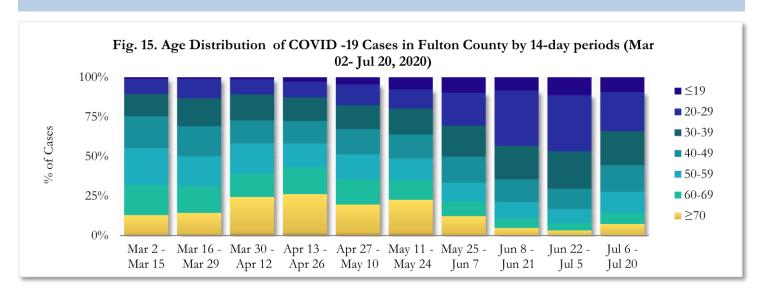
About 30% of COVID cases are missing data on patient race and ethnicity. Of cases with race and ethnicity reported, majority are Black non-Hispanic, followed by a smaller number of cases reporting White (non-Hispanic and Hispanic) race.

^{*}North -Includes all Fulton cities north of Atlanta metro (Alpharetta, Milton, Johns Creek, Roswell, Sandy Springs, Mountain Park)

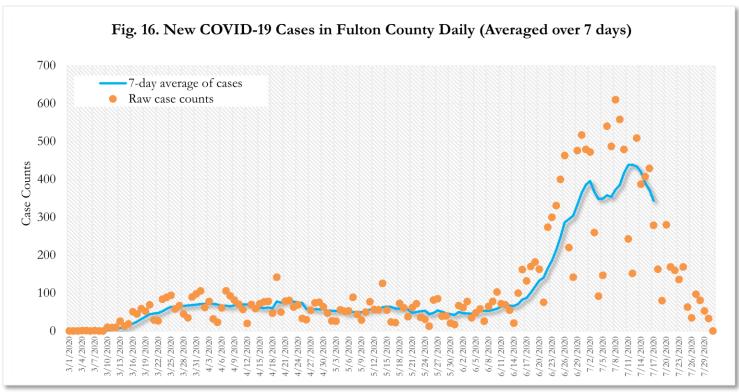




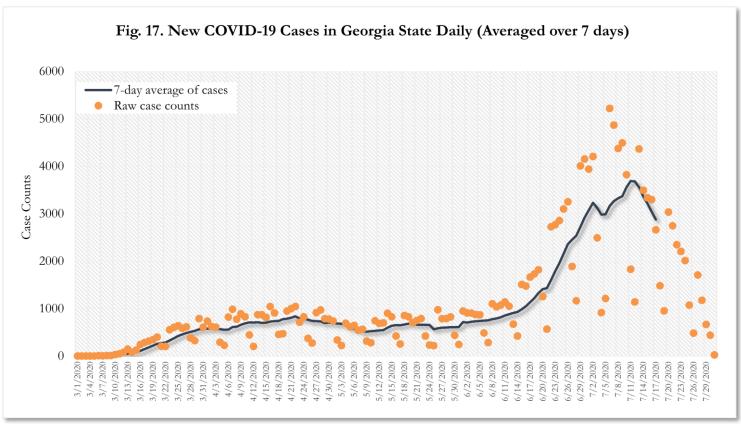
Earlier (March-May 2020) large proportions of reported cases were among persons aged 60 and older. However, starting in June, a much higher number of cases were among persons aged between 20-29 years.



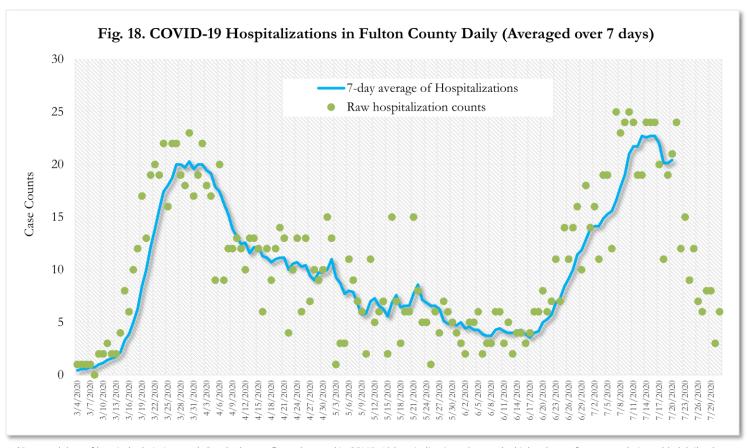
TRENDS IN COVID-19 CASES, HOSPITALIZATIONS AND DEATHS (7-DAY MOVING AVE.)



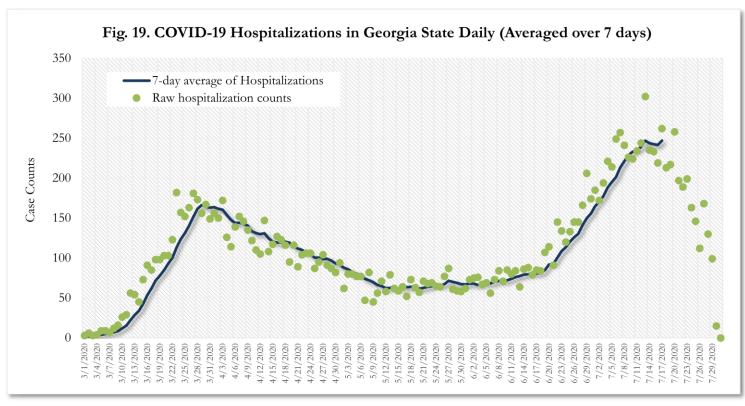
^{*}Date of collection of first positive sample used (report creation date used where sample collection date is missing). Graph above reflects the trend in COVID-19 diagnosis. Due to the high volume of testing in recent weeks, there have been delays in reporting lab results. Thus, the trend is subject to change as more lab results get added to the state surveillance database.



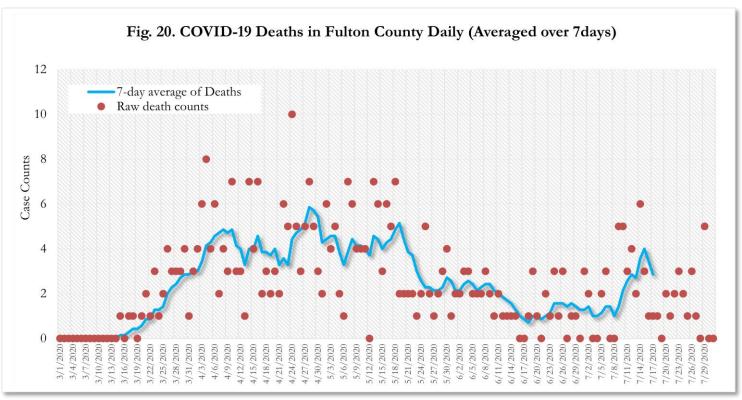
^{*}Date of collection of first positive sample used (report creation date used where sample collection date is missing). Graph above reflects the trend in COVID-19 diagnosis. Due to the high volume of testing in recent weeks, there have been delays in reporting lab results. Thus, the trend is subject to change as more lab results get added to the state surveillance database.



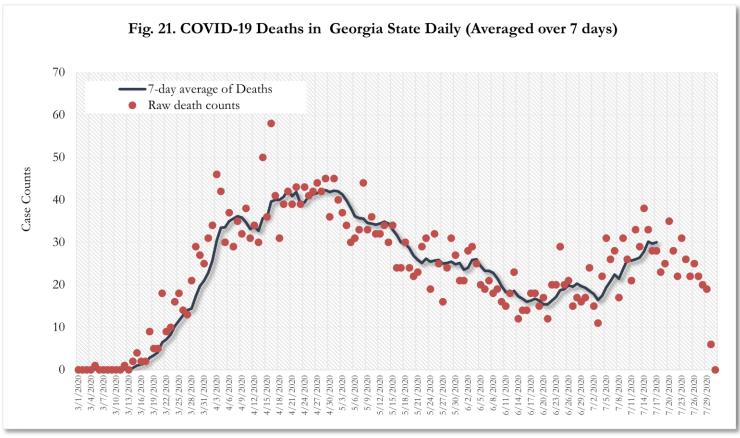
^{*}Reported date of hospital admission used. Graph above reflects the trend in COVID-19 hospitalizations. Due to the high volume of new cases being added daily, there have been delays in reporting hospitalization data. Thus, the trend is likely to change as more hospitalization data is reported in the state surveillance database.



^{*}Reported date of hospital admission used. Graph above reflects the trend in COVID-19 hospitalizations. Due to the high volume of new cases being added daily, there have been delays in reporting hospitalization data. Thus, the trend is likely to change as more hospitalization data is reported in the state surveillance database.



^{*} Reported date of death used. Graph above reflects the trend in deaths attributed to COVID-19. The trend is likely to change as more data on deaths among persons with COVID-19 is reported in the state surveillance database.

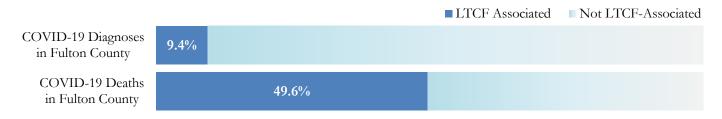


^{*}Reported date of death used. Graph above reflects the trend in deaths attributed to COVID-19. The trend is likely to change as more data on deaths among persons with COVID-19 is reported in the state surveillance database.

COVID-19 IN LONG-TERM CARE FACILITIES IN FULTON COUNTY

Older persons (aged 65 years and older) and persons who live in nursing homes or other long-term care facilities seem to be at higher risk for developing more serious complications from COVID-19. Extra precautions are recommended for individuals within this risk groups – Centers for Disease Control and Prevention (CDC 2020) https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-at-higher-risk.html

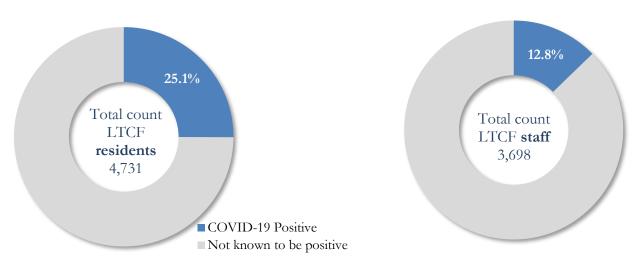
Fig. 22. COVID-19 Diagnoses and Deaths in Fulton County Associated with Long-Term Care Facilities



LTCF → Long-term Care Facility (Incudes residents and Staff)

COVID-19 POSITIVITY:

Fig. 23. COVID-19 Positivity at 59 reporting Long-Term Care Facilities (LTCF) in Fulton County

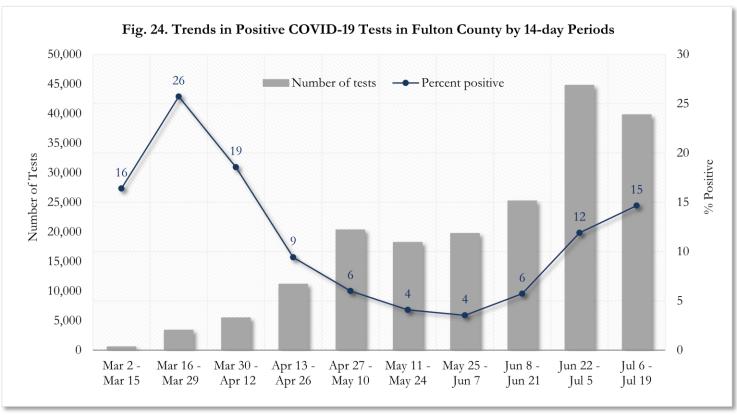


COVID-19 Cases, Hospitalizations, and Deaths among 59 reporting Long-Term Care Facilities in Fulton County

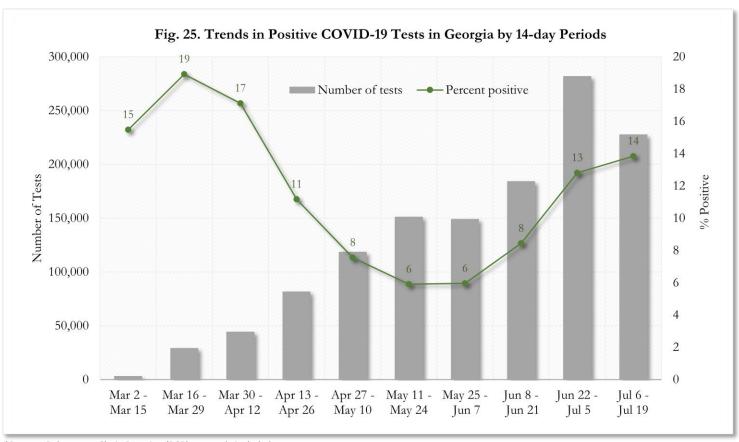
	LT	CF Residents (n=4,7	731)	LTCF Staff (n=3,698)		
	Cases	Hospitalizations	Deaths	Cases	Hospitalizations	Deaths
Average (count per fac.)1	20	5	3	8	1	< 0.1
Median (count per fac.) ¹	5	2	0	4	0	0
Lowest counts	0	0	0	0	0	0
Highest counts	136	48	29	53	8	1
Total Count	1186 (25.1%) ^a	277 (23.4%) ^b	191 (16.1%) ^b	472 (12.8%) ^a	30 (6.4%)b	2 (<0.1%)b

^a Percentage shown reflects proportion of total residents/staff tested who were positive (i.e. COVID-19 Positivity). | ^b Percentages shown are proportions of persons residents/staff diagnosed with COVID-19 who were hospitalized or died after diagnoses.

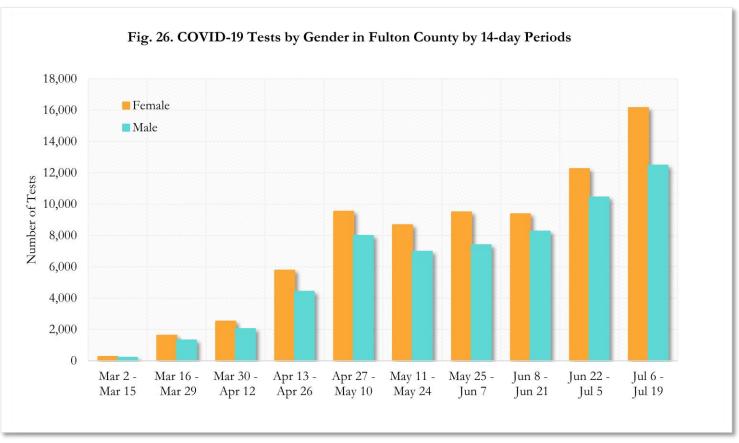
COVID-19 TESTING AND POSITIVITY IN FULTON COUNTY



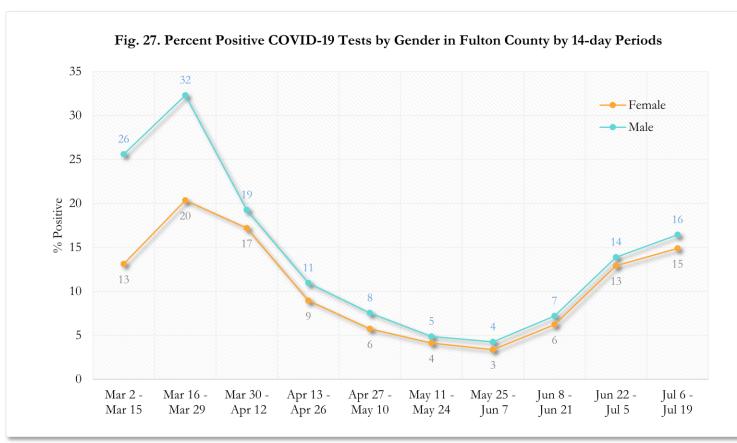
*Data on Polymerase Chain Reaction (PCR) tests only included.



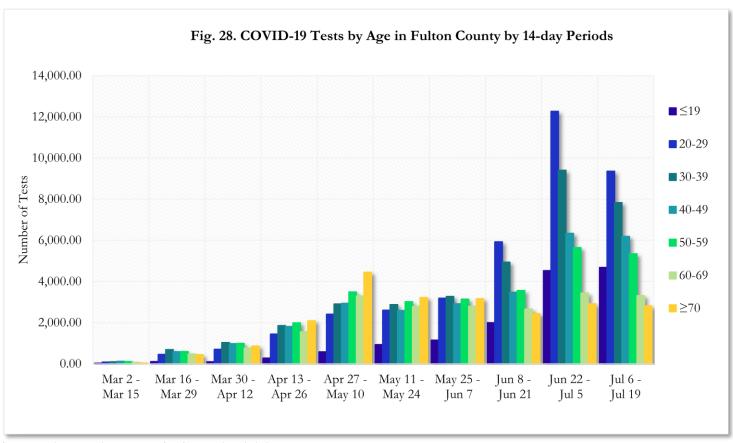
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



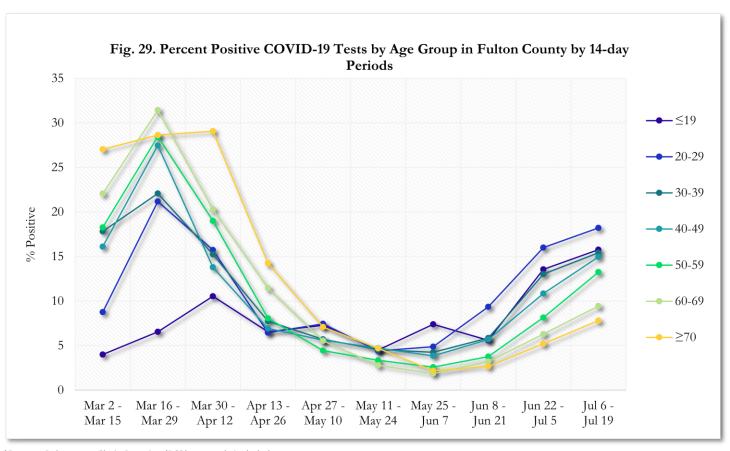
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



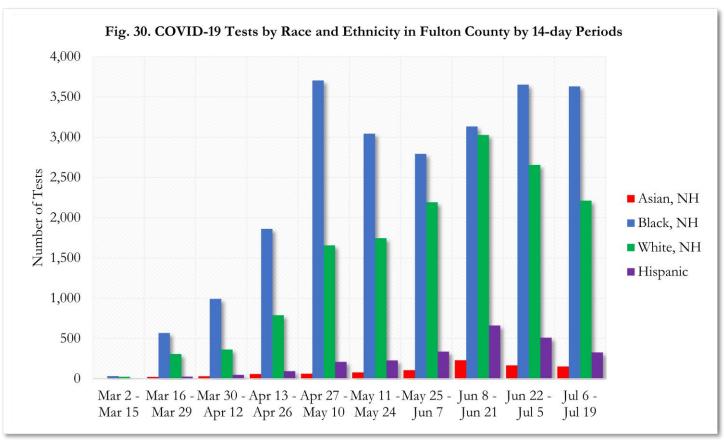
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



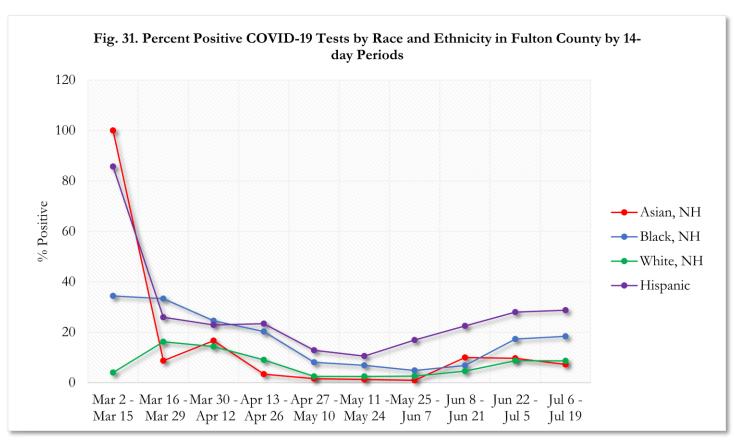
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



^{*}Data on Polymerase Chain Reaction (PCR) tests only included.