

Fulton County Board of Health Epidemiology Report

COVID-19 Diagnoses - 8/28/2020

SUMMARY

- As of August 28, 2020, Fulton County has recorded **24,543** cases of the 2019 novel coronavirus (COVID-19) and **503** deaths.
- Of 2,098 **new diagnoses** made between August 8 and August 21, the central portion of the county (Atlanta metro) accounted for 35% while the northern and southern parts accounted for 31% and 20% respectively.
- By city, **new** COVID-19 diagnoses rates range from 124.3 per 100,000 persons (Sandy Springs) to 320.2 per 100,000 persons (Palmetto). [Fulton County Diagnoses Rates (per 100,000 persons): Cumulative 2306.8; Incident –197.2]. See map showing incident case rate by ZIP code on Pg.4.
- Among all persons diagnosed with COVID-19 in Fulton County, 8.7% required hospitalization and 2.0% died.
- Residents and staff of long-term care facilities account for 7.4% of COVID-19 diagnoses and 42.9% of COVID-19 deaths in Fulton County.

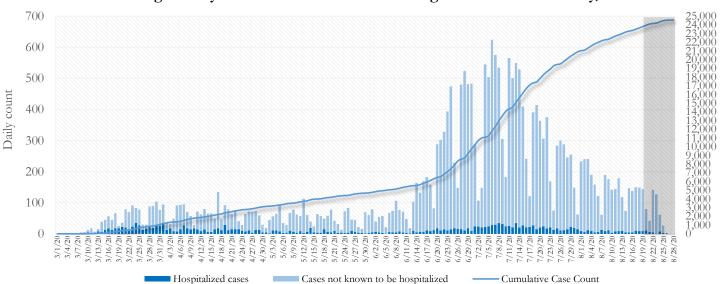


Fig 1. Daily and Cumulative COVID-19 diagnoses in Fulton County, GA

*Counts shown reflect the number of confirmed cases as of 9:00am on 8/28/20 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.

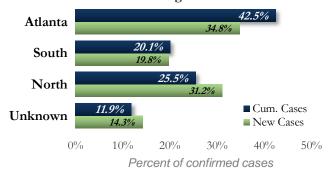
DISTRIBUTION OF COVID-19 DIAGNOSES BY REGION

New cases: 35% of the new COVID-19 cases diagnosed in the past 2 weeks occurred in Atlanta while 31% and 20% occurred in the Northern and Southern regions of the county respectively.

Fulton Region	% Cumulative	% New	
Tulion Region	count	cases*	
Atlanta	42.5%	34.8%	
North ¹	25.5%	31.2%	
South ²	20.1%	19.8%	
Unincorporated/Unknown	11.9%	14.3%	

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 8/08/20 - 8/21/20).

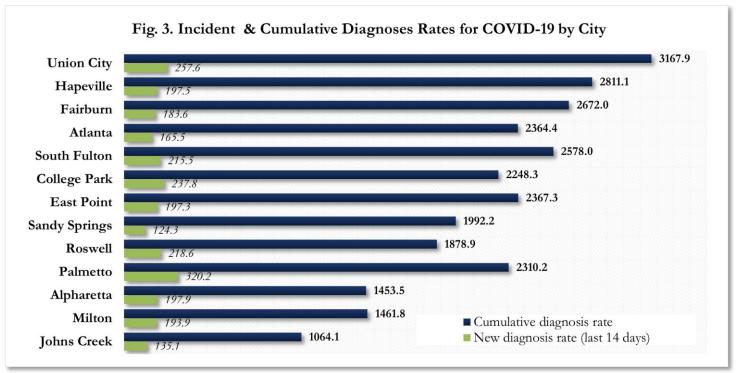
Fig. 2. Distribution of COVID 19 cases by Region



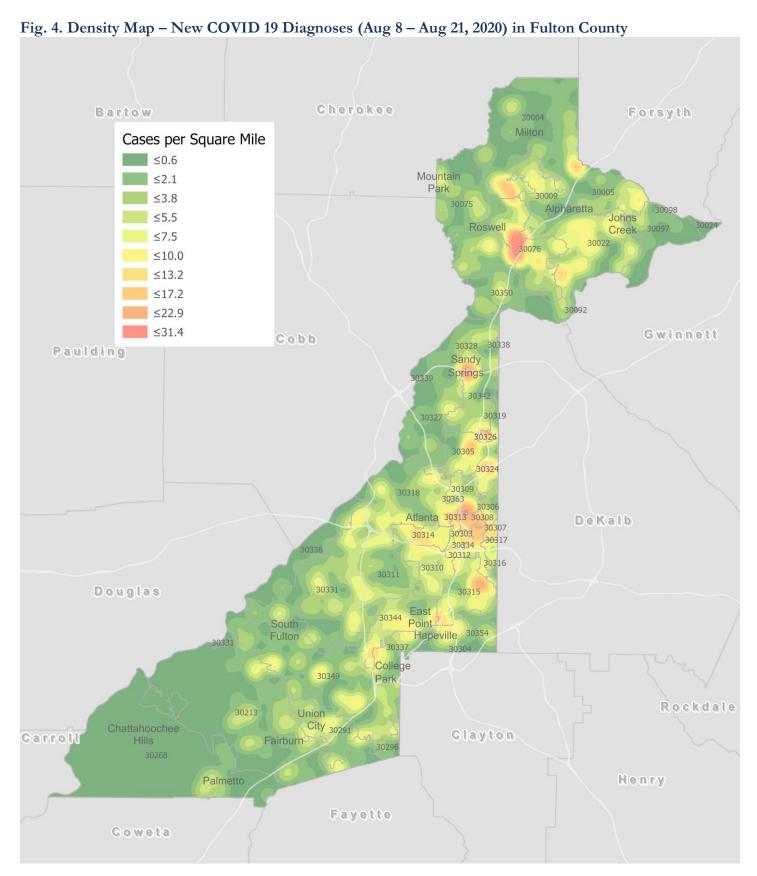
COVID-19 CASE COUNTS AND RATES BY CITY

	Prior (8/26/20)	Current Total (8/28/20)			New Cases (Period: 7/24/20 – 8/21/20) ¹			
	Count	Count	%	Cum. Rate ²	1 st 14 d. (7/24– 8/07)	Last 14 d. (8/08– 8/21)	% change ³	Rate ⁴ (<i>Last 14</i> d).
Atlanta	10323	10431	42.5%	2364.4	1102	730	↓ 33.8%	165.5
South Fulton	2434	2452	10.0%	2578.0	287	205	↓ 28.6%	215.5
Sandy Springs	2070	2100	8.6%	1992.2	259	131	↓ 49.4%	124.3
Roswell	1725	1771	7.2%	1878.9	286	206	↓ 28.0%	218.6
East Point	823	828	3.4%	2367.3	115	69	↓ 40.0%	197.3
Johns Creek	869	890	3.6%	1064.1	144	113	↓ 21.5%	135.1
Union City	660	664	2.7%	3167.9	82	54	↓ 34.1%	257.6
Alpharetta	921	940	3.8%	1453.5	150	128	↓ 14.7%	197.9
Milton	548	558	2.3%	1461.8	91	74	↓ 18.7%	193.9
Fairburn	389	393	1.6%	2672.0	63	27	↓ 57.1%	183.6
College Park	308	312	1.3%	2248.3	42	33	↓ 21.4%	237.8
Palmetto	101	101	0.4%	2310.2	17	14	↓ 17.6%	320.2
Hapeville	179	185	0.8%	2811.1	26	13	↓ 50.0%	197.5
Mountain Park	5	5	0.0%	800.0	0	<10	-	320.0
Chattahooche Hills	0	0	0.0%	-	-	-	-	-
Unknown	3188	2913	11.9%	-	409	295	-	

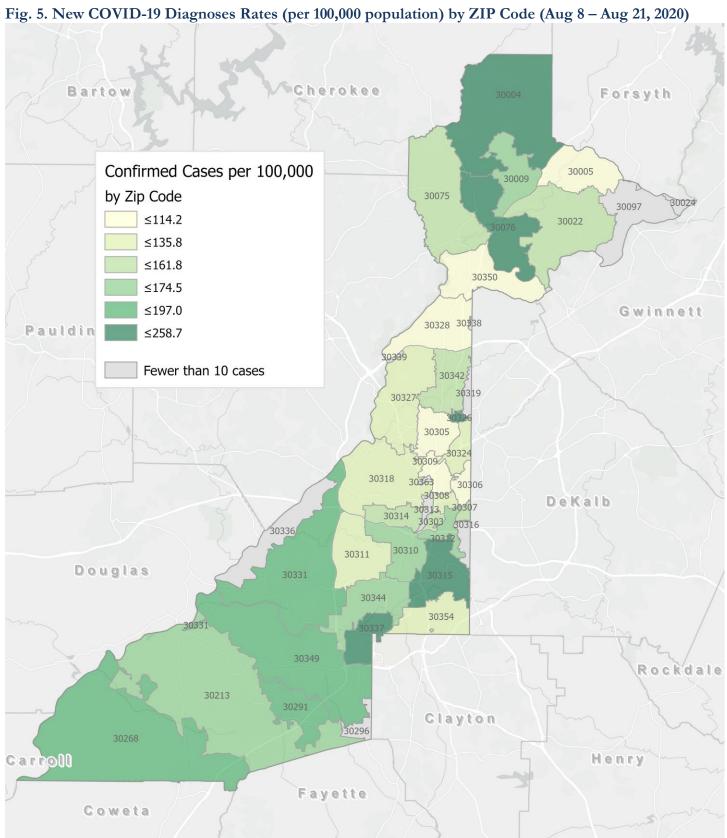
*New cases: Cases diagnosed in most recent 28 days (based on reported dates of positive sample collection). To allow for lag in reporting results of new diagnoses from samples collected in the most recent week, data used for incident diagnoses analyses were moved back by one week. *Cumulative diagnosis 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.



<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 past 7 days, data used for incident diagnoses analyses are moved back by one week. Map reflects new COVID-19 cases diagnosed between Aug 8th and Aug 21st, 2020 across Fulton County.



^{*}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 (8/26/20)	Current To	Current Total (8/28/20)		New Cases (Period: 7/24/20 – 8/21/20) ¹			
	Count	Count	0/0	1st 14 days (Jul 24 – Aug 7)	Last 14 d. (Aug 8 – Aug 21)	% change ²		
All Fulton	24180	24543	100.0%	3064	2098	↓ 31.5%		
30331	1570	1576	6.4%	184	127	↓ 31.0%		
30318	1438	1456	5.9%	176	83	↓ 52.8%		
30349	1615	1626	6.6%	212	167	J 21.2%		
30213	944	956	3.9%	142	82	J 42.3%		
30315	749	758	3.1%	114	93	↓ 18.4%		
30344	762	768	3.1%	107	66	↓ 38.3%		
30311	702	702	2.9%	99	47	↓ 52.5%		
30342	1034	1049	4.3%	104	67	↓ 35.6%		
30314	514	518	2.1%	59	34	↓ 42.4%		
30310	655	660	2.7%	74	52	↓ 29.7%		
30308	415	426	1.7%	31	25	↓ 19.4%		
30022	964	986	4.0%	150	130	↓ 13.3%		
30327	453	454	1.8%	54	37	↓ 31.5%		
30004	857	878	3.6%	132	134	↑ 1.5%		
30309	666	670	2.7%	62	38	↓ 38.7%		
30076	861	878	3.6%	163	129	↓ 20.9%		
30291	681	686	2.8%	82	48	↓ 41.5%		
30350	471	478	1.9%	70	36	↓ 48.6%		
30075	852	883	3.6%	132	86	↓ 34.8%		
30328	679	687	2.8%	93	46	↓ 50.5%		
30316	355	366	1.5%	48	36	↓ 25.0%		
30312	706	710	2.9%	41	49	↑ 19.5%		
30005	427	443	1.8%	75	49	↓ 34.7%		
30305	662	669	2.7%	54	34	↓ 37.0%		
30306	302	308	1.3%	37	16	↓ 56.8%		
30324	789	795	3.2%	72	51	↓ 29.2%		
30337	292	296	1.2%	39	32	↓ 17.9%		
30009	338	343	1.4%	55	39	↓ 29.1%		
30313	144	157	0.6%	15	10	↓ 33.3%		
30326	192	195	0.8%	11	14	† 27.3%		
30097	181	183	0.7%	26	11	↓ 57.7%		
30354	371	378	1.5%	56	25	↓ 55.4%		
30303	369	370	1.5%	37	13	↓ 64.9%		
30339	286	302	1.2%	52	31	↓ 40.4%		
30268	167	169	0.7%	26	22	↓ 15.4%		
30307	173	176	0.7%	28	28	-		
30319	111	113	0.5%	11	<10	↓ 54.5%		
30336	77	78	0.3%	<10	<10	-		
30296	39	39	0.2%	<10	<10	-		
30363	57	57	0.2%	<10	<10	-		
30301	<10	<10	<0.1%	<10	<10	-		
30345	38	37	0.2%	<10	0	↓ 100.0%		
31131	<10	<10	<0.1%	<10	<10	-		
30023	<10	<10	<0.1%	0	0	-		
30080	<10	<10	<0.1%	<10	0	↓ 100.0%		
30135	<10	<10	<0.1%	0	0	-		
30138	<10	<10	<0.1%	0	0	-		
30139	-	-	-	0	0	-		
30321	11	12	<0.1%	<10	0	↓ 100.0%		
30340	34	35	0.1%	<10	<10	-		

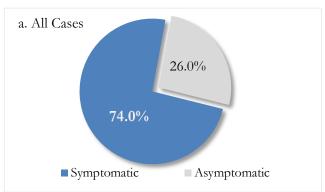
30341	38	38	0.2%	<10	0	↓ 100.0%
30358	<10	<10	<0.1%	<10	0	↓ 100.0%
30374	31	31	0.1%	<10	0	↓ 100.0%
30606	<10	<10	<0.1%	0	0	-
31150	<10	<10	<0.1%	0	<10	-
30024	15	14	<0.1%	<10	<10	-
30098	-	-	-	0	0	-
30334	14	14	<0.1%	<10	0	↓ 100.0%
30338	153	160	0.7%	27	21	↓ 22.2%
Unknown	1248	917	3.7%	69	69	-

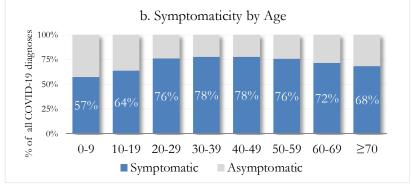
<u>New cases:</u> Cases diagnosed in most recent 28 days (based on reported dates of positive sample collection). To allow for lag in reporting results of new diagnoses from samples collected in the most recent week, data used for incident diagnoses analyses were moved back by one week. <u>Percent change:</u> 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 <u>both</u> 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. <u>Note:</u> 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 AII 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

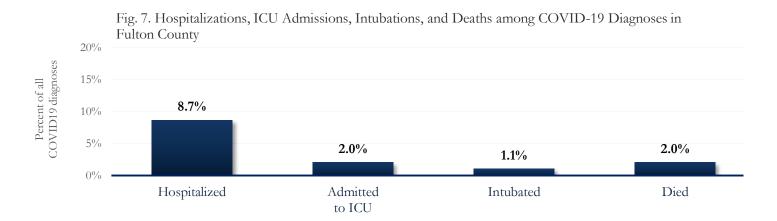
Fig. 6a & b. Proportion Reporting Symptoms in Fulton





COVID-19 cases who have been case interviewed or had medical charts reviewed as at 8/28/20 only

COVID-19 HOSPITALIZATIONS, ICU ADMISSIONS AND DEATHS IN FULTON



DEMOGRAPHIC DISTRIBUTIONS – COVID 19 DIAGNOSES AND DEATHS

A. Distribution of COVID-19 diagnoses by gender, age, and race in Fulton County by Fulton Region

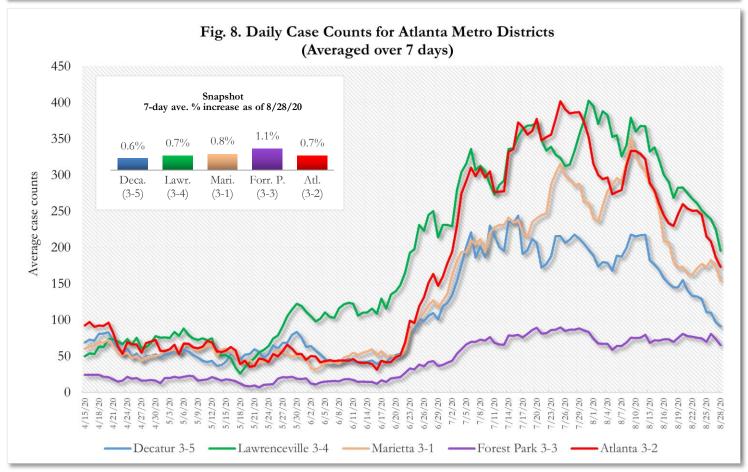
		North Fulton Cities ¹	Atlanta	South Fulton Cities ²	Unknown City	All Fulton
		Count (%)	Count (%)	Count (%)	Count (%)	Count (%)
Total COVID-19 cases		6264	10431	4935	2913	24543
Gende	r: Female	3087 (49.3%)	5013 (48.1%)	2672 (54.1%)	1440 (49.4%)	12212 (49.8%)
	Male	2922 (46.6%)	4759 (45.6%)	2011 (40.7%)	1311 (45.0%)	11003 (44.8%)
	Unknown	255 (4.1%)	659 (6.3%)	252 (5.1%)	162 (5.6%)	1328 (5.4%)
Age:	0-9	195 (3.1%)	187 (1.8%)	147 (3.0%)	74 (2.5%)	603 (2.5%)
	10-19	860 (13.7%)	640 (6.1%)	339 (6.9%)	197 (6.8%)	2036 (8.3%)
	20-29	1373 (21.9%)	2946 (28.2%)	976 (19.8%)	759 (26.1%)	6054 (24.7%)
	30-39	1002 (16.0%)	2275 (21.8%)	1018 (20.6%)	615 (21.1%)	4910 (20.0%)
	40-49	1011 (16.1%)	1395 (13.4%)	899 (18.2%)	454 (15.6%)	3759 (15.3%)
	50-59	881 (14.1%)	1181 (11.3%)	680 (13.8%)	359 (12.3%)	3101 (12.6%)
	60-69	475 (7.6%)	810 (7.8%)	460 (9.3%)	226 (7.8%)	1971 (8.0%)
	≥70	460 (7.3%)	973 (9.3%)	403 (8.2%)	221 (7.6%)	2057 (8.4%)
	Unknown	<10	24 (0.2%)	13 (0.3%)	<10	52 (0.2%)
Race:	Asian, NH	153 (2.4%)	137 (1.3%)	16 (0.3%)	52 (1.8%)	358 (1.5%)
	Black, NH	562 (9.0%)	4371 (41.9%)	2790 (56.5%)	796 (27.3%)	8519 (34.7%)
	White, NH	1788 (28.5%)	1760 (16.9%)	182 (3.7%)	564 (19.4%)	4294 (17.5%)
	Hispanic	1026 (16.4%)	574 (5.5%)	331 (6.7%)	289 (9.9%)	2220 (9.0%)
	Other, NH	239 (3.8%)	289 (2.8%)	96 (1.9%)	109 (3.7%)	733 (3.0%)
	Unknown	2496 (39.8%)	3300 (31.6%)	1520 (30.8%)	1103 (37.9%)	8419 (34.3%)

B. Distribution of COVID-19 deaths by gender, age, and race in Fulton County by Fulton Region

	, 0	, , , , , , , , , , , , , , , , , , , ,		7 7			
	North Fulton Cities ¹ Count (%)	Atlanta Count (%)	South Fulton Cities ² Count (%)	Unknown City Count (%)	All Fulton Count (%)		
Total COVID-19 death	s 98	238	127	40	503		
Gender: Female	45 (45.9%)	105 (44.1%)	67 (52.8%)	23 (57.5%)	240 (47.7%)		
Male	53 (54.1%)	133 (55.9%)	60 (47.2%)	17 (42.5%)	263 (52.3%)		
Unknown	0	0	0	0	0		
Age: ≤ 29	0	<10	<10	0	<10		
30-39	<10	<10	<10	<10	11 (2.2%)		
40-49	<10	<10	<10	<10	19 (3.8%)		
50-59	<10	20 (8.4%)	16 (12.6%)	<10	41 (8.2%)		
60-69	11 (11.2%)	46 (19.3%)	32 (25.2%)	<10	92 (18.3%)		
≥70	78 (79.6%)	157 (66.0%)	69 (54.3%)	32 (80.0%)	336 (66.8%)		
Unknown	0	0	0	0	0		
Race: Asian, NH	<10	<10	<10	<10	<10		
Black, NH	17 (17.3%)	203 (85.3%)	109 (85.8%)	20 (50.0%)	349 (69.4%)		
White, NH	73 (74.5%)	27 (11.3%)	11 (8.7%)	16 (40.0%)	127 (25.2%)		
Hispanic	<10	<10	<10	<10	15 (3.0%)		
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

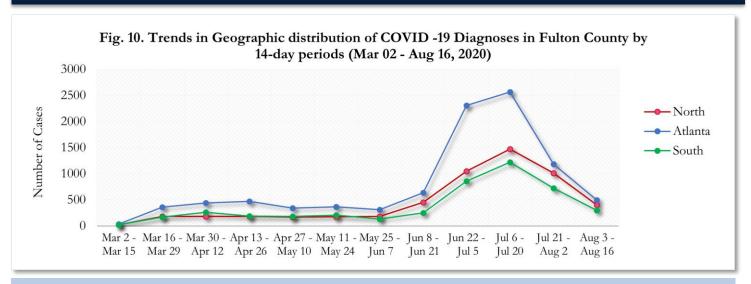


^{*}Graph shows the average number of cases calculated from the daily cumulative case counts in the metro Atlanta districts. Increases in daily cumulative case counts may include cases diagnosed earlier during the pandemic but were only recently reported to the state as cases diagnosed belonging to these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

Hall Forsyth Bartow Cherokee Jackson Pork Barrow Cobb Paulding Gwinnett Oconee Walton Fulton DeKalb Douglas Rockdale Morgan Riverdale Clayton Newton Carroll Henry Favette **Health Districts** Cases per Square Mile ≤0.8 ≤2.5 Jasper ≤4.4 Spalding 3-4 ≤6.5 3-1 ≤9.1 3-5 ≤11.9 ≤15.6 ≤21.0 Troup ≤30.6 Jones Pike onroe ≤49.1 Upsan

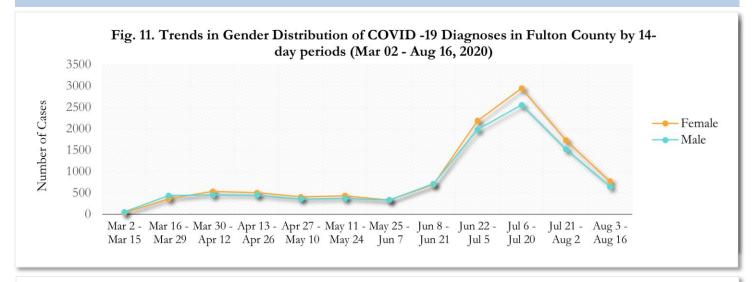
Fig. 9. COVID-19 Cases in Fulton County and Surrounding Districts (Aug 8 – Aug 21, 2020)

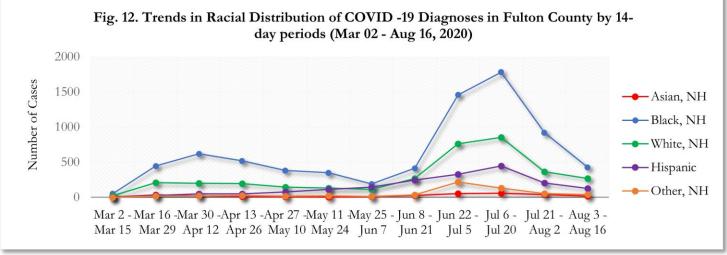
TRENDS IN COVID-19 CASES AMONG DEMOGRAPHIC GROUPS (14 DAY PERIODS)



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

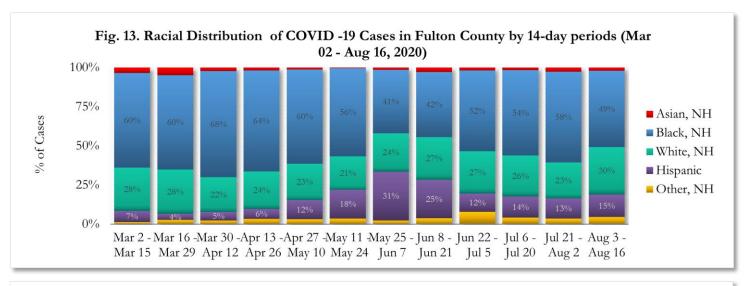
^{*}South - Includes all Fulton cities south of Atlanta (College Park, Chattahoochee Hills, East Point, Hapeville, Palmetto, South Fulton, Fairburn, and Union City)

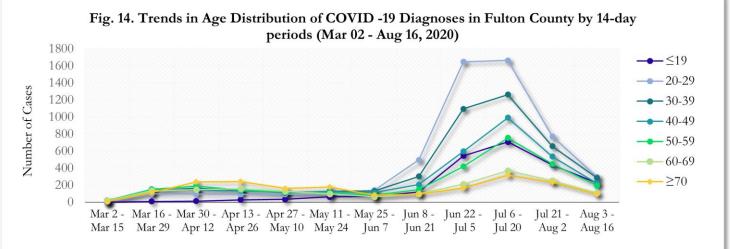




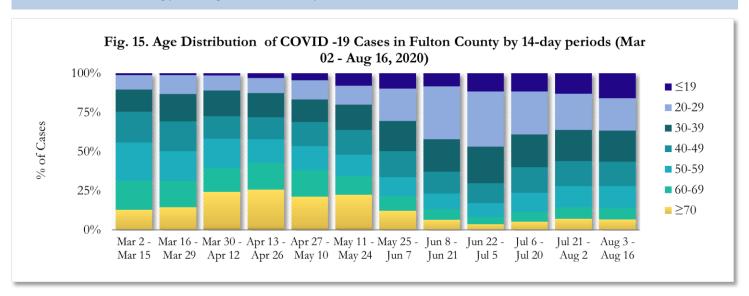
About 38% of COVID cases are missing data on patient race and ethnicity. Of cases with race and ethnicity reported, majority are Black non-Hispanic, followed by a smaller number of cases reporting White (non-Hispanic and Hispanic) race.

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

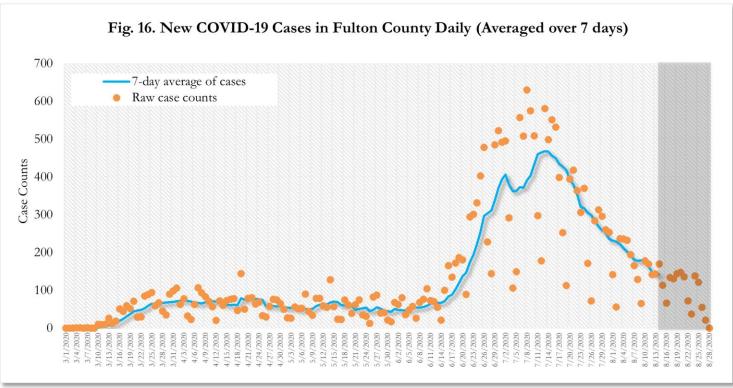




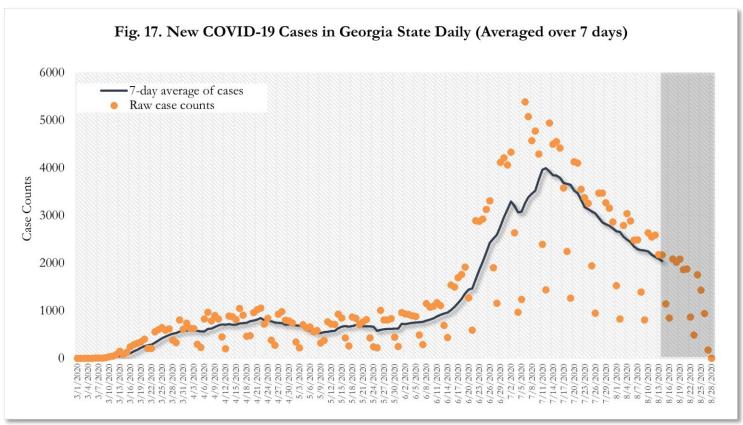
Earlier (March-May 2020) large proportions of reported cases were among persons aged 60 and older. However, starting in June, a much higher number of cases were among persons aged between 20-29 years.



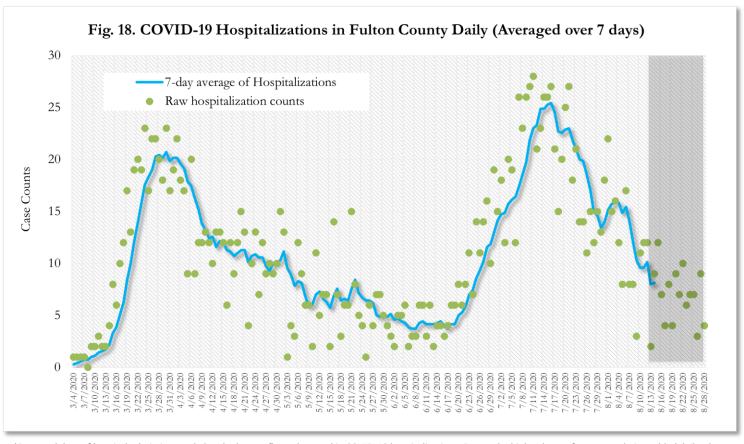
TRENDS IN COVID-19 CASES, HOSPITALIZATIONS AND DEATHS (7-DAY MOVING AVE.)



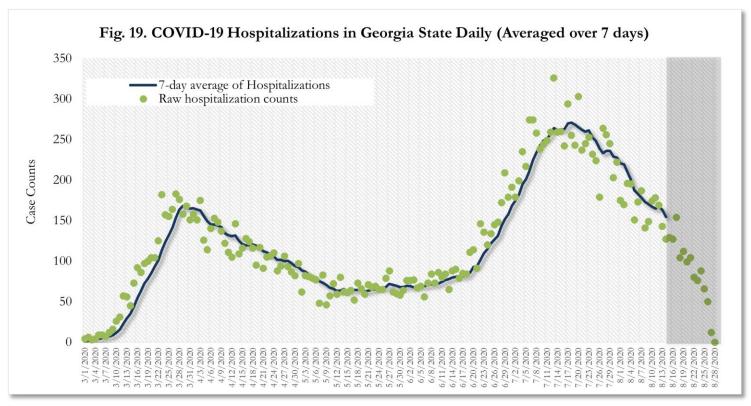
^{*}Date of collection of first positive sample used (report creation date used where sample collection date is missing). Graph above reflects the trend in COVID-19 diagnosis. Due to the high volume of testing in recent weeks, there have been delays in reporting lab results. Thus, the trend is subject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



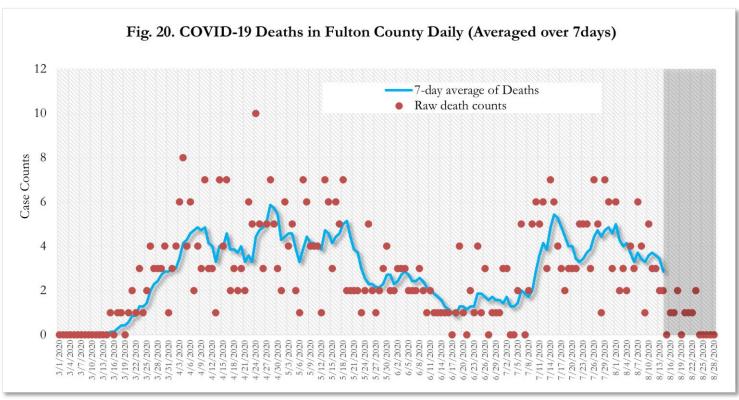
^{*}Date of collection of first positive sample used (report creation date used where sample collection date is missing). Graph above reflects the trend in COVID-19 diagnosis. Due to the high volume of testing in recent weeks, there have been delays in reporting lab results. Thus, the trend is subject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



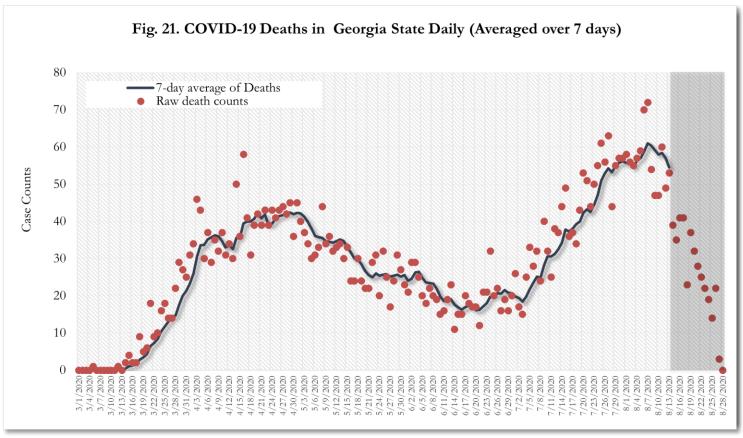
^{*}Reported date of hospital admission used. Graph above reflects the trend in COVID-19 hospitalizations. Due to the high volume of new cases being added daily, there have been delays in reporting hospitalization data. Thus, the trend is likely to change as more hospitalization data is reported in the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

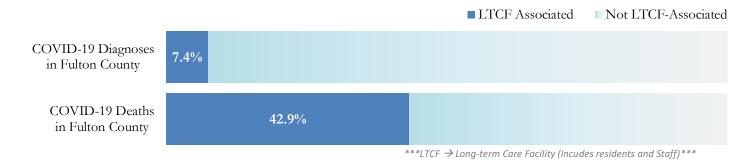


^{*}Reported date of death used. Graph above reflects the trend in deaths attributed to COVID-19. The trend is likely to change as more data on deaths among persons with COVID-19 is reported in the state surveillance database.

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

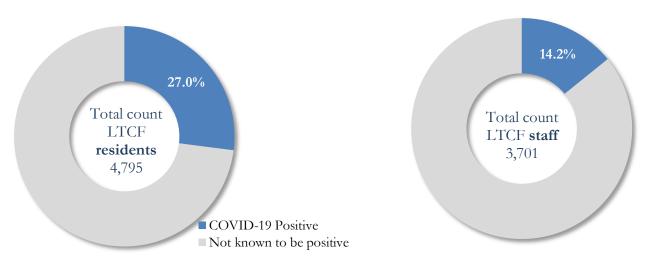
Older persons (aged 65 years and older) and persons who live in nursing homes or other long-term care facilities seem to be at higher risk for developing more serious complications from COVID-19. Extra precautions are recommended for individuals within this risk groups – Centers for Disease Control and 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



COVID-19 POSITIVITY:

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

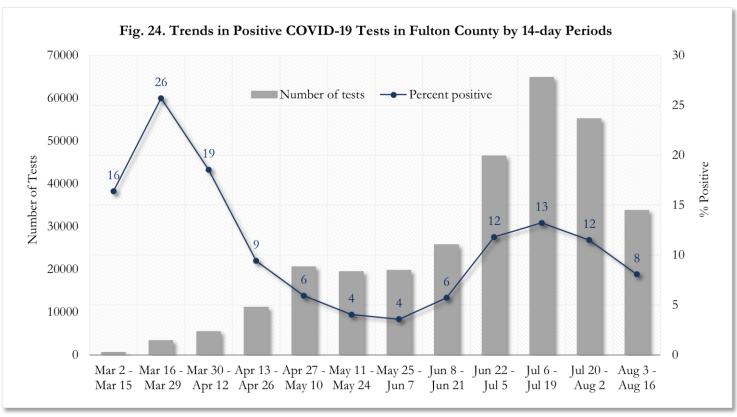


COVID-19 Cases, Hospitalizations, and Deaths among 59 reporting Long-Term Care Facilities in Fulton County

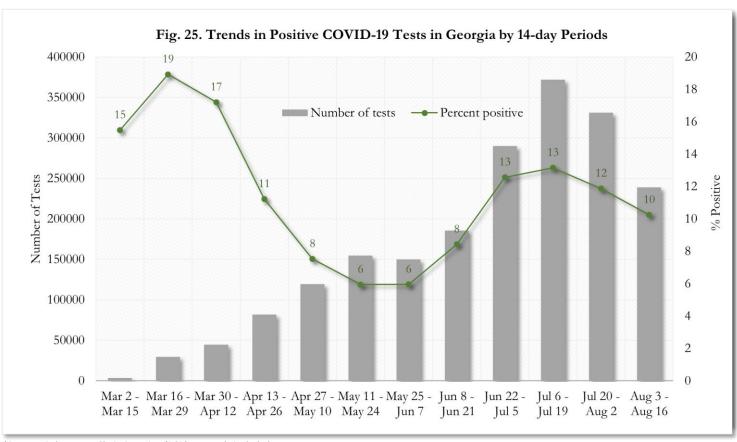
	LTC	CF Residents (n=4,7	795)	LTCF Staff (n=3,701)			
	Cases	Hospitalizations	Deaths	Cases	Hospitalizations	Deaths	
Average (count per fac.)1	22	5	4	9	1	< 0.1	
Median (count per fac.)1	8	2	1	5	0	0	
Lowest counts	1	0	0	0	0	0	
Highest counts	136	48	29	63	8	2	
Total Count	1296 (27.0%)a	296 (22.8%) ^b	211 (16.3%) ^b	525 (14.2%) ^a	30 (5.7%) ^b	5 (<1.0%)b	

^o 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.

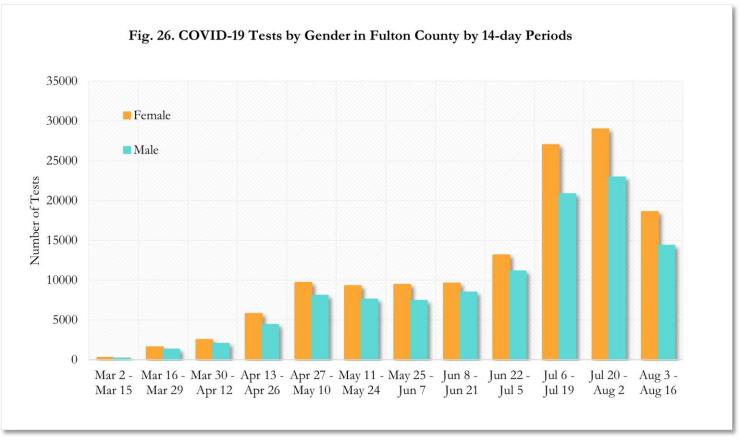
COVID-19 TESTING AND POSITIVITY IN FULTON COUNTY



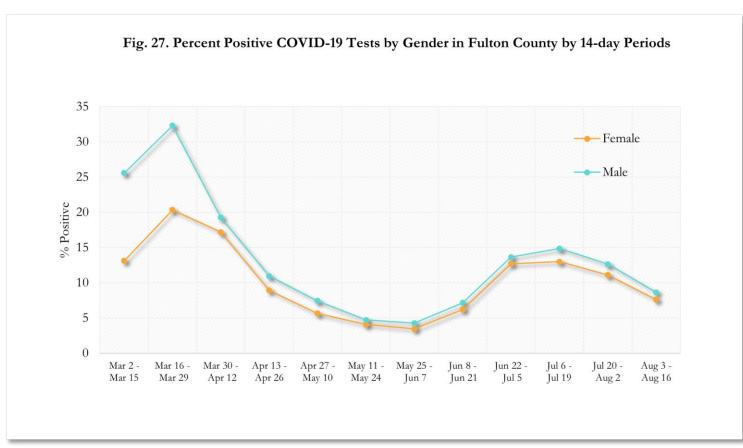
*Data on Polymerase Chain Reaction (PCR) tests only included.



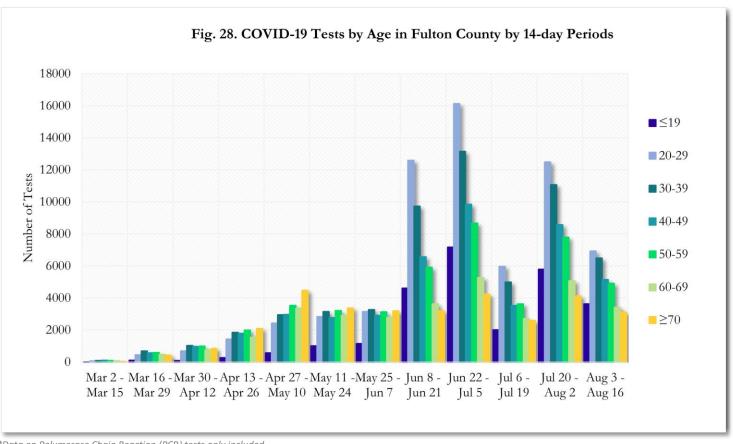
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



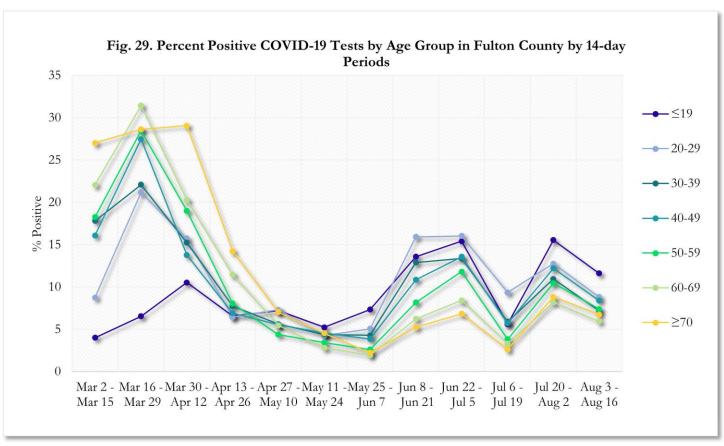
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



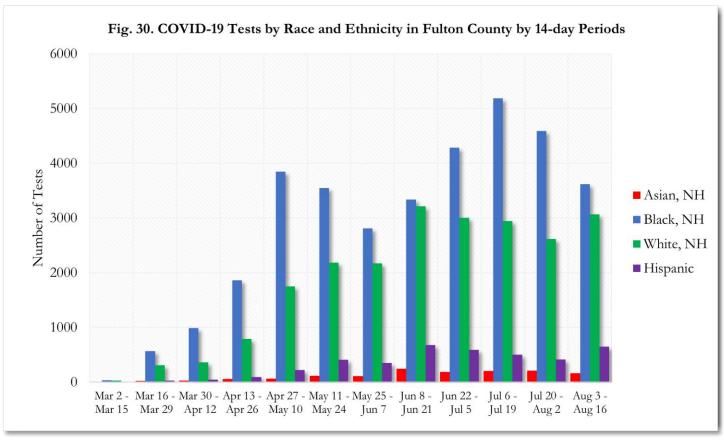
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



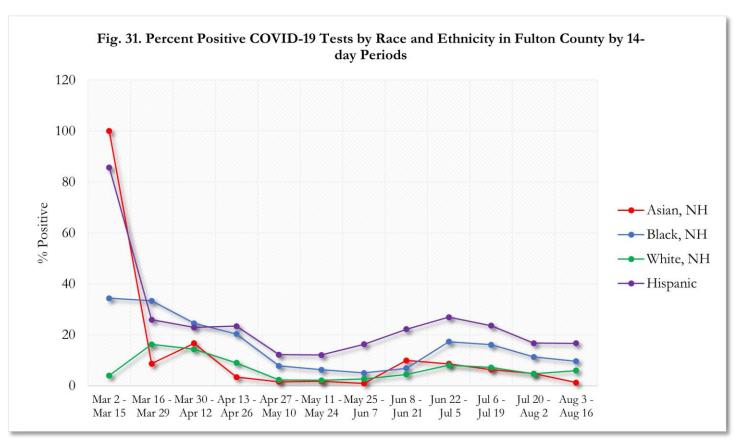
*Data on Polymerase Chain Reaction (PCR) tests only included.



^{*}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.