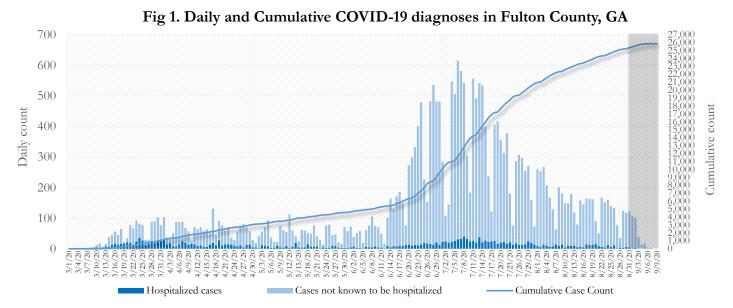


Fulton County Board of Health Epidemiology Report

COVID-19 Diagnoses -9/9/2020

SUMMARY

- As of September 9, 2020, Fulton County has recorded 25,862 cases of the 2019 novel coronavirus (COVID-19) and
 551 deaths.
- Of **1,841** new diagnoses made between August 21 and September 2, the central portion of the county (Atlanta metro) accounted for 35% while the northern and southern parts accounted for 41% and 14% respectively.
- By city, new COVID-19 case rates range from 114.5 per 100,000 persons (Union City) to 248.9 per 100,000 persons (Milton). [Fulton County Diagnoses Rates (per 100,000 persons): Cumulative 2430.8; Incidence –173.0]. See map showing incident case rate by ZIP code on Pg.17.
- Among all persons diagnosed with COVID-19 in Fulton County since May 1, 6.4% required hospitalization and 1.7% died.
- Of all testing done in Fulton County between August 17 and August 30, the percent positivity rate was 6%.



*Counts shown reflect the number of confirmed cases as of 9:00am on 9/9/20 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:** Delays in data reporting may cause changes in data counts, particularly in the shaded portion. Data throughout this report is preliminary and subject to ongoing data cleaning processes, and thus is subject to change.

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 41% and 14% occurred in the Northern and Southern regions of the county respectively.

Fulton Region	% Cumulative	% New	
Tulion Region	count	cases*	
Atlanta	42.3%	35.4%	
North ¹	26.7%	41.2%	
South ²	19.8%	14.2%	
Unincorporated/Unknown	11.2%	9.2%	

Includes all Fulton County cities north of Atlanta metro (Alpharetta, Milton, Johns Creek, Roswell, Sandy Springs, Mountain Park) $|^2$ Includes 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 8/21/20 – 9/2/20).

In the past two weeks (8/21-9/2), there were fewer new cases of COVID-19 in Fulton County than the previous two weeks (8/5-8/20).

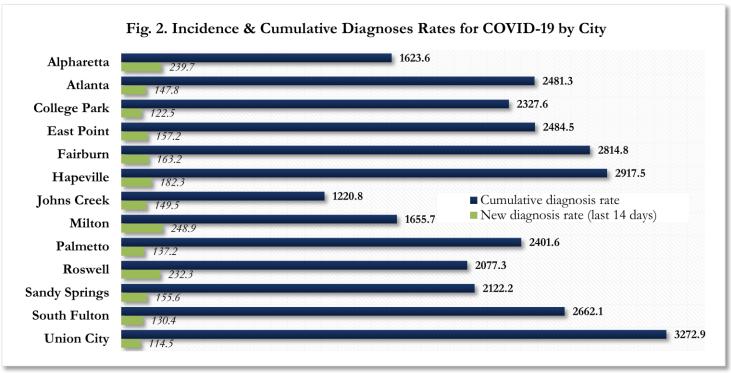


*Delayed a week to account for testing results turnaround time.

COVID-19 CASE COUNTS AND RATES BY CITY

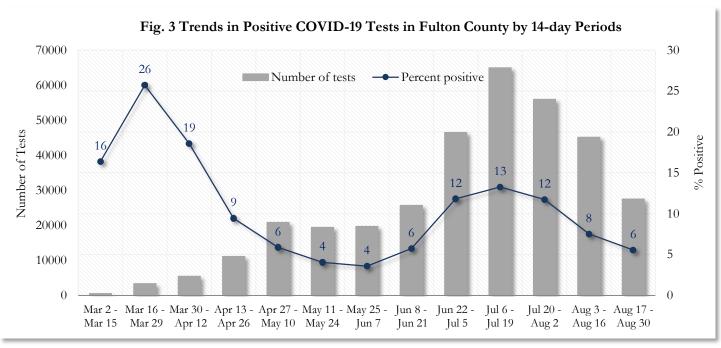
	Prior (9/4/20)	Current Total (9/9/20)			New Cases (Period: 8/05/20 – 9/02/20) ¹			
	Count	Count	%	Cum. Rate ²	1 st 14 d. (8/5– 8/20)	Last 14 d. (8/21-9/2)	% change ³	Rate ⁴ (Last 14 d).
Alpharetta	1010	1050	4.1%	1623.6	114	155	↑ 36.0%	239.7
Atlanta	10774	10947	42.3%	2481.3	781	652	↓ 16.5%	147.8
Chattahoochee Hills	0	0	0.0%	-	-	-	-	-
College Park	323	323	1.2%	2327.6	36	17	↓ 52.8%	122.5
East Point	857	869	3.4%	2484.5	83	55	↓ 33.7%	157.2
Fairburn	408	414	1.6%	2814.8	27	24	↓ 11.1%	163.2
Hapeville	186	192	0.7%	2917.5	13	12	↓ 7.7%	182.3
Johns Creek	995	1021	3.9%	1220.8	113	125	↑ 10.6%	149.5
Milton	612	632	2.4%	1655.7	74	95	† 28.4%	248.9
Mountain Park	5	6	0.0%	960.0	<10	0	-	-
Palmetto	104	105	0.4%	2401.6	19	<10	↓ 68.4%	137.2
Roswell	1887	1958	7.6%	2077.3	219	219	-	232.3
Sandy Springs	2194	2237	8.6%	2122.2	141	164	16.3 %	155.6
South Fulton	2505	2532	9.8%	2662.1	198	124	↓ 37.4%	130.4
Union City	681	686	2.7%	3272.9	64	24	↓ 62.5%	114.5
Unknown	2891	2890	11.2%	-	311	169	-	

*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.

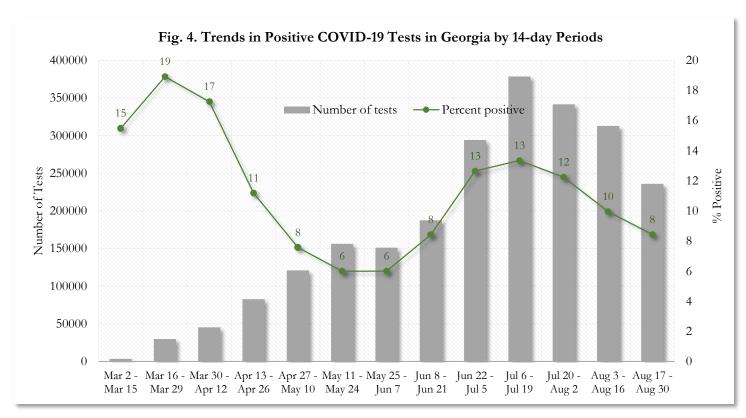


^{*}Rates shown are per 100,000 persons | **Note:** Mass testing in specific locations (e.g. long term care facilities) may cause sharp increases in the cumulative rate of COVID-19 diagnosis in those territories. All data shown are preliminary and are subject to change as testing results get updated.

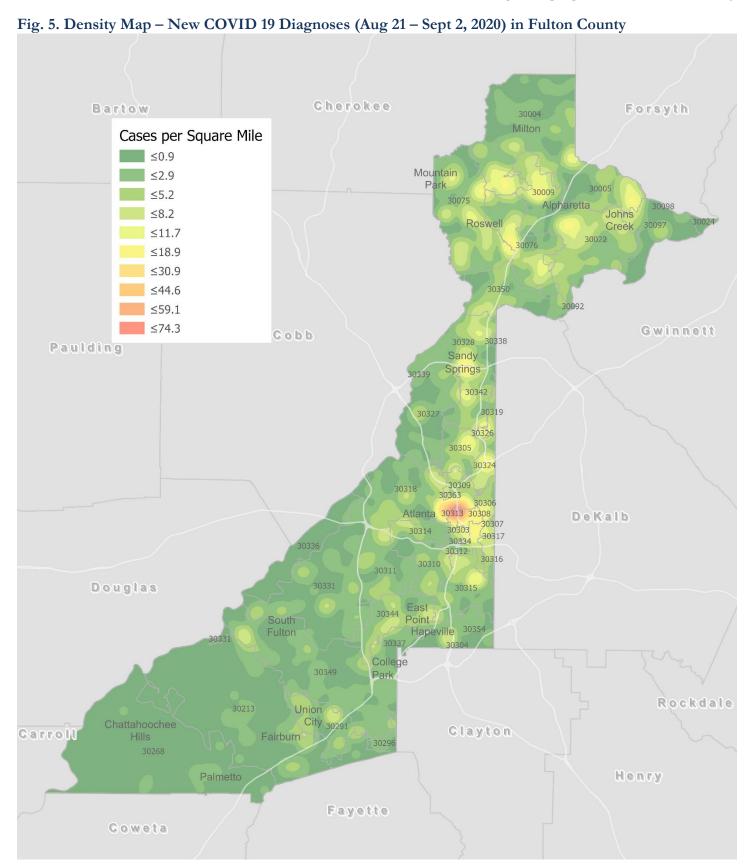
COVID-19 TESTING AND POSITIVITY IN FULTON COUNTY AND GEORGIA



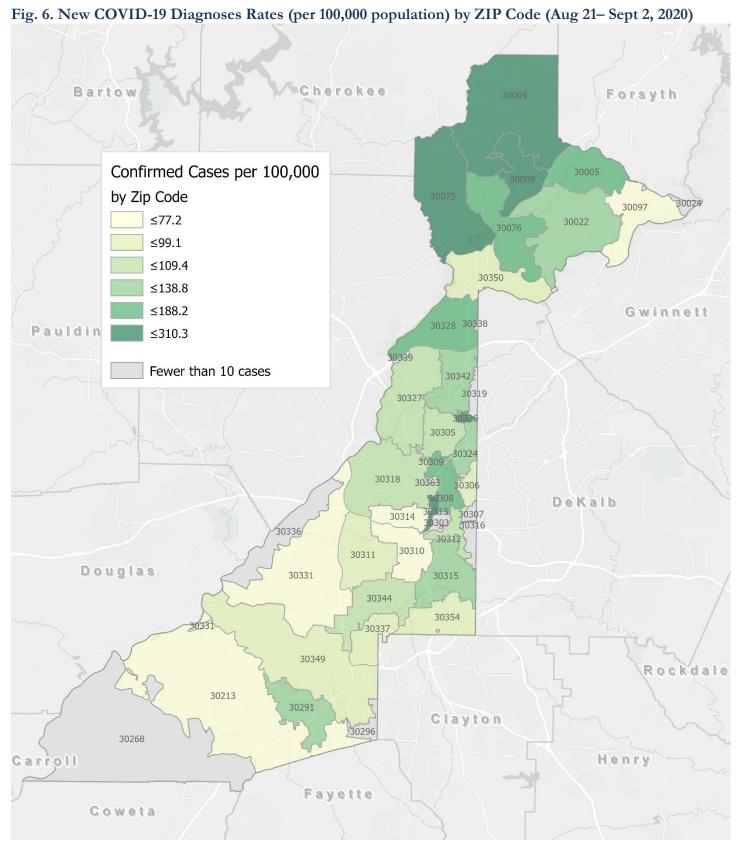
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



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



<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 21st and Sept 2^{nd} , 2020 across Fulton County.



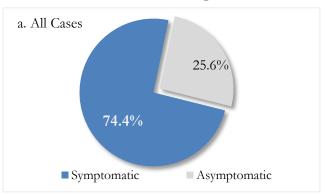
*Rates shown are per 100,000 populations.

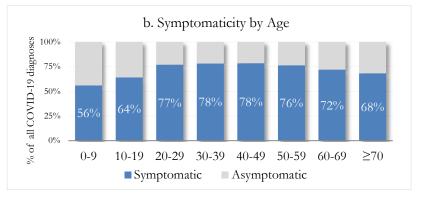
New COVID-19 cases: Cases diagnosed in most recent 14 days (based on reported dates of positive sample collection). To allow for lag in reporting results of positive cases from samples collected in the immediate past7 days, data used for incident diagnoses analyses are moved back by one week. Data used 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. See page 18 for zip code break down table.

REPORTING SYMPTOMS AMONG PERSONS 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. 7a & b. Total Proportion Reporting Symptoms in Fulton County

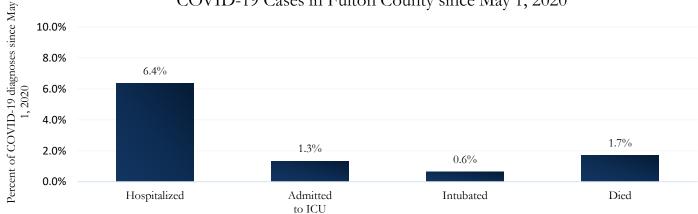




^{***}COVID-19 cases who have been case interviewed or had medical charts reviewed as of 9/9/20 only. N = 15,015***

COVID-19 HOSPITALIZATIONS, ICU ADMISSIONS AND DEATHS IN FULTON

Fig. 8. Hospitalizations, ICU Admissions, Intubations, and Deaths among COVID-19 Cases in Fulton County since May 1, 2020



DEMOGRAPHIC DISTRIBUTIONS – COVID 19 CASES AND DEATHS

A. Distribution of COVID-19 cases by gender, age, and race 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 cases	6904	10947	5121	2890	25862
Gender: Female	3459 (50.1%)	5287 (48.3%)	2791 (54.5%)	1446 (50.0%)	12983 (50.2%)
Male	3234 (46.8%)	5049 (46.1%)	2095 (40.9%)	1303 (45.1%)	11681 (45.2%)
Unknown*	211 (3.1%)	611 (5.6%)	235 (4.6%)	141 (4.9%)	1198 (4.6%)
Age: 0-9	222 (3.2%)	194 (1.8%)	156 (3.0%)	73 (2.5%)	645 (2.5%)
10-19	1040 (15.1%)	731 (6.7%)	355 (6.9%)	208 (7.2%)	2334 (9.0%)
20-29	1519 (22.0%)	3167 (28.9%)	1005 (19.6%)	744 (25.7%)	6435 (24.9%)
30-39	1079 (15.6%)	2355 (21.5%)	1065 (20.8%)	604 (20.9%)	5103 (19.7%)
40-49	1088 (15.8%)	1440 (13.2%)	944 (18.4%)	454 (15.7%)	3926 (15.2%)
50-59	960 (13.9%)	1215 (11.1%)	695 (13.6%)	356 (12.3%)	3226 (12.5%)
60-69	504 (7.3%)	825 (7.5%)	473 (9.2%)	226 (7.8%)	2028 (7.8%)
≥70	484 (7.0%)	993 (9.1%)	416 (8.1%)	215 (7.4%)	2108 (8.2%)
Unknown*	<10	27 (0.2%)	12 (0.2%)	10 (0.3%)	57 (0.2%)
Race: Asian, NH	221 (3.2%)	160 (1.5%)	17 (0.3%)	57 (2.0%)	455 (1.8%)
Black, NH	662 (9.6%)	4723 (43.1%)	3179 (62.1%)	830 (28.7%)	9394 (36.3%)
White, NH	2319 (33.6%)	2060 (18.8%)	197 (3.8%)	614 (21.2%)	5190 (20.1%)
Hispanic	1282 (18.6%)	642 (5.9%)	391 (7.6%)	311 (10.8%)	2626 (10.2%)
Other, NH	270 (3.9%)	328 (3.0%)	112 (2.2%)	106 (3.7%)	816 (3.2%)
Unknown*	2150 (31.1%)	3034 (27.7%)	1225 (23.9%)	972 (33.6%)	7381 (28.5%)

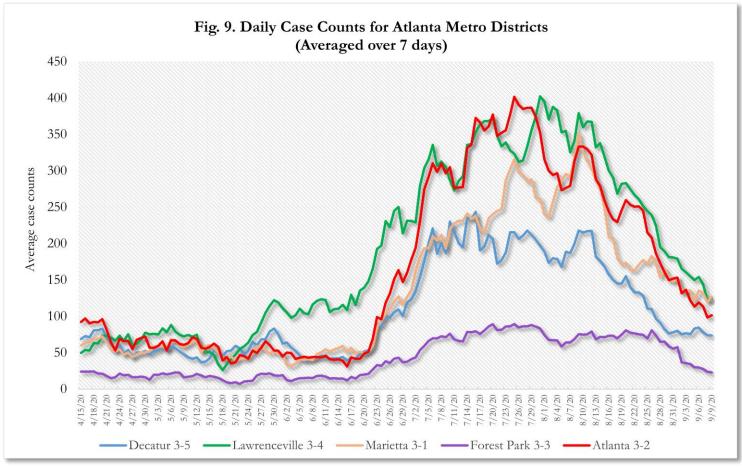
^{*}Unknown included cases not yet interviewed.

B. Distribution of COVID-19 deaths by gender, age, and race 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 dea	ths 108	263	135	45	551
Gender: Female	50 (46.3%)	117 (44.5%)	69 (51.1%)	25 (55.6%)	261 (47.4%)
Male	58 (53.7%)	146 (55.5%)	66 (48.9%)	20 (44.4%)	290 (52.6%)
Unknown	0	0	0	0	0
Age: ≤ 29	0	<10	<10	0	<10
30-39	<10	<10	<10	<10	13 (2.4%)
40-49	<10	<10	<10	<10	22 (4.0%)
50-59	<10	23 (8.7%)	18 (13.3%)	<10	47 (8.5%)
60-69	13 (12.0%)	49 (18.6%)	33 (24.4%)	<10	98 (17.8%)
≥70	80 (74.1%)	165 (62.7%)	72 (53.3%)	34 (75.6%)	351 (63.7%)
Unknown	0	<10	0	0	<10
Race: Asian, NH	<10	<10	<10	<10	<10
Black, NH	19 (17.6%)	223 (84.8%)	114 (84.4%)	23 (51.1%)	379 (68.8%)
White, NH	78 (72.2%)	30 (11.4%)	13 (9.6%)	18 (40.0%)	139 (25.2%)
Hispanic	<10	<10	<10	<10	18 (3.3%)
Other, NH	0	<10	<10	0	<10
Unknown	0	<10	<10	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

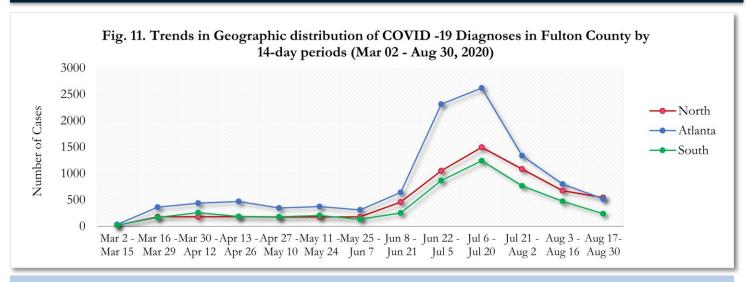


^{*}Graph shows the average number of cases calculated from the daily cumulative case counts in the metro Atlanta districts. Increases in daily cumulative case counts may include cases diagnosed earlier during the pandemic but were only recently reported to the state as cases diagnosed belonging to these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

Hall Forsyth Bartow Cherokee Jackson POIK Barrow Paulding Gwinnett Oconee Walton Fulton DeKalb Douglas Rockdale Morgan Clayton Newton Carroll Henry Favette **Health Districts** Cases per Square Mile ≤0.6 ≤2.4 Jasper ≤4.8 Spalding 3-4 ≤7.5 3-1 ≤10.8 3-5 ≤15.3 ≤23.0 ≤34.1 Troup ≤51.8 onroe Jones Pike ≤76.3 Upsan

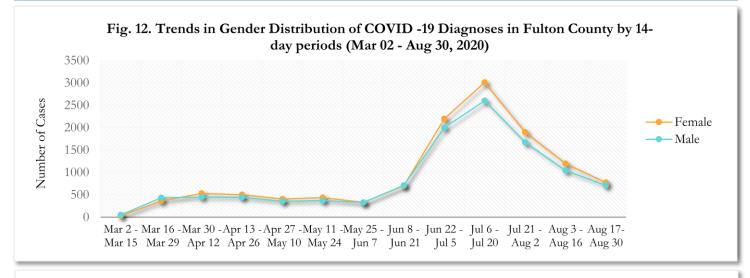
Fig. 10. COVID-19 Cases in Fulton County and Surrounding Districts (Aug 21 – Sept 2, 2020)

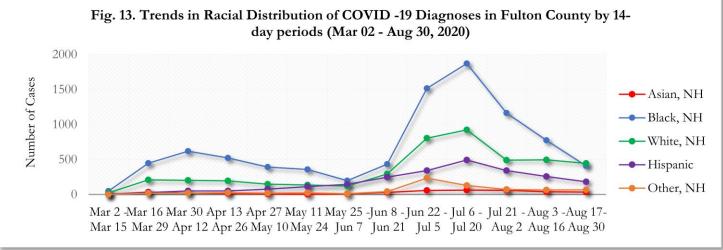
TRENDS IN COVID-19 CASES AMONG DEMOGRAPHIC GROUPS (14 DAY PERIODS)



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

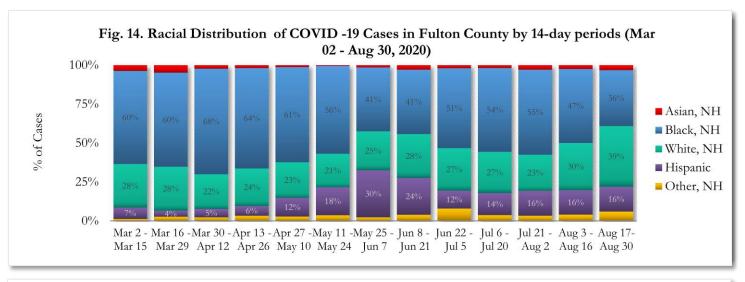
^{*}South - Includes all Fulton cities south of Atlanta (College Park, Chattahoochee Hills, East Point, Hapeville, Palmetto, South Fulton, Fairburn, and Union City)

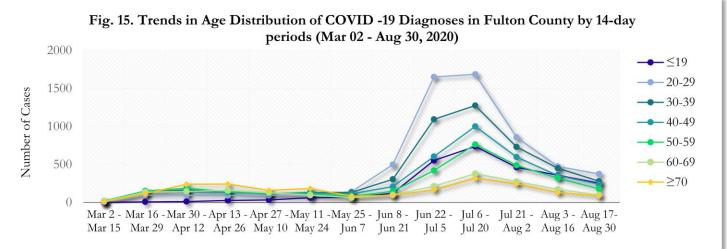




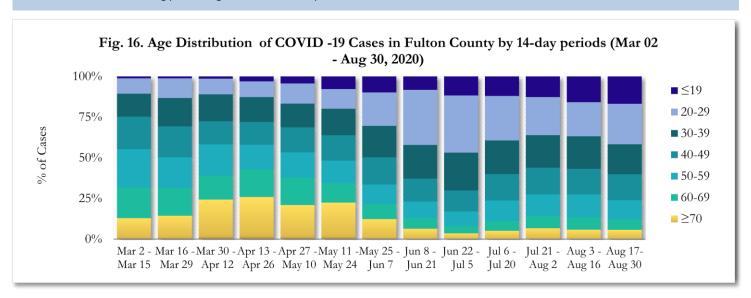
About 33% of COVID cases are missing data on patient race and ethnicity. For the first time since March, the majority of diagnoses made in the past two weeks were White-NH (39%) rather than Black-NH (36%).

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

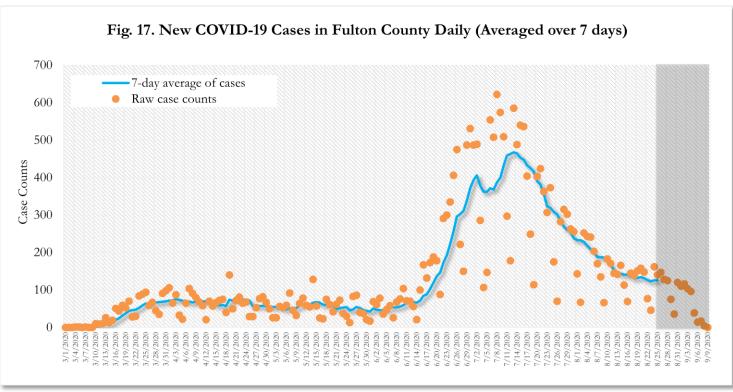




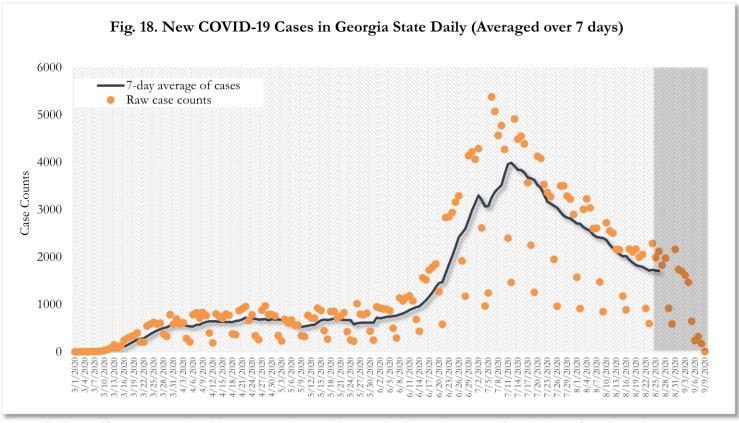
Earlier (March-May 2020) large proportions of reported cases were among persons aged 60 and older. However, starting in June, a higher number of cases were among persons aged between 20-29 years.



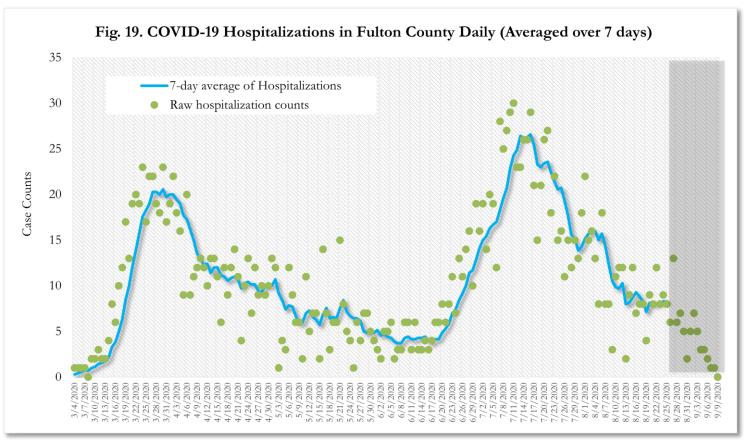
TRENDS IN COVID-19 CASES, HOSPITALIZATIONS AND DEATHS (7-DAY MOVING AVE.)



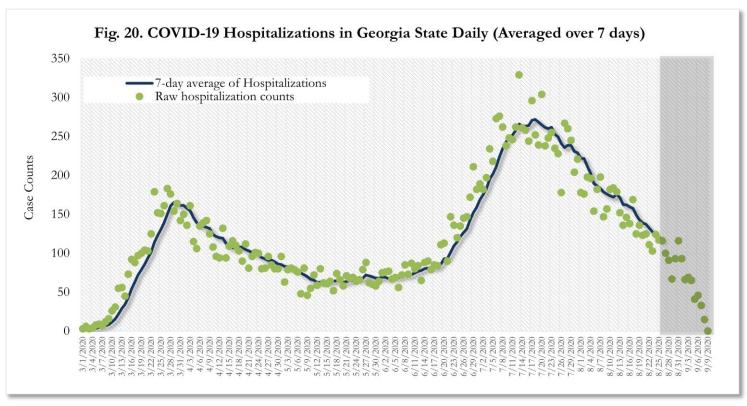
^{*}Date of collection of first positive sample used (report creation date used where sample collection date is missing). Graph above reflects the trend in COVID-19 diagnosis. Due to the high volume of testing in recent weeks, there have been delays in reporting lab results. Thus, the trend is subject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



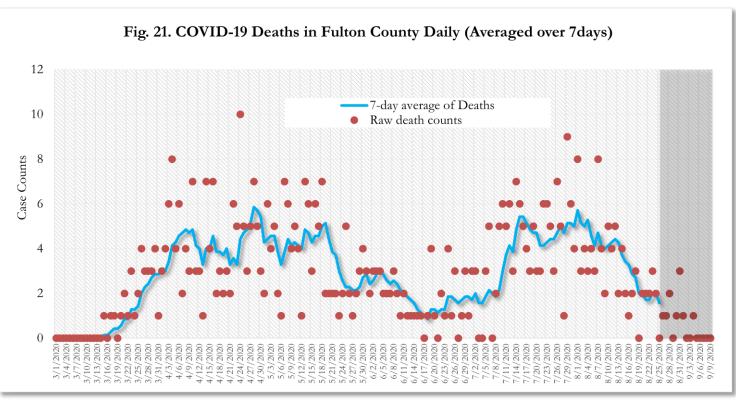
^{*}Date of collection of first positive sample used (report creation date used where sample collection date is missing). Graph above reflects the trend in COVID-19 diagnosis. Due to the high volume of testing in recent weeks, there have been delays in reporting lab results. Thus, the trend is subject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



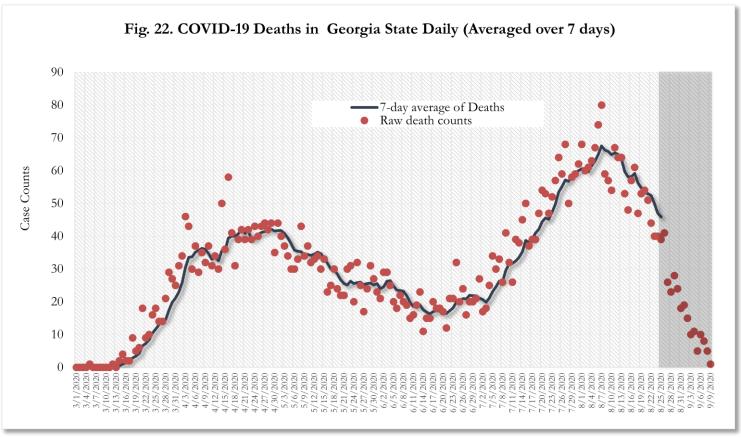
^{*}Reported date of hospital admission used. Graph above reflects the trend in COVID-19 hospitalizations. Due to the high volume of new cases being added daily, there have been delays in reporting hospitalization data. Thus, the trend is likely to change as more hospitalization data is reported in the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

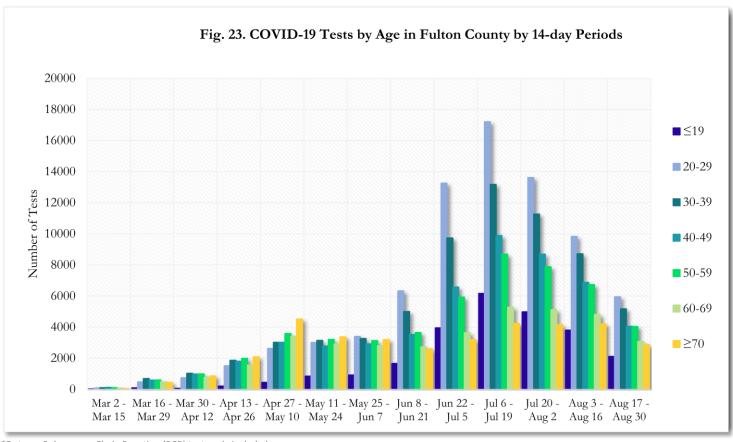


^{*} Reported date of death used. Graph above reflects the trend in deaths attributed to COVID-19. The trend is likely to change as more data on deaths among persons with COVID-19 is reported in the state surveillance database.

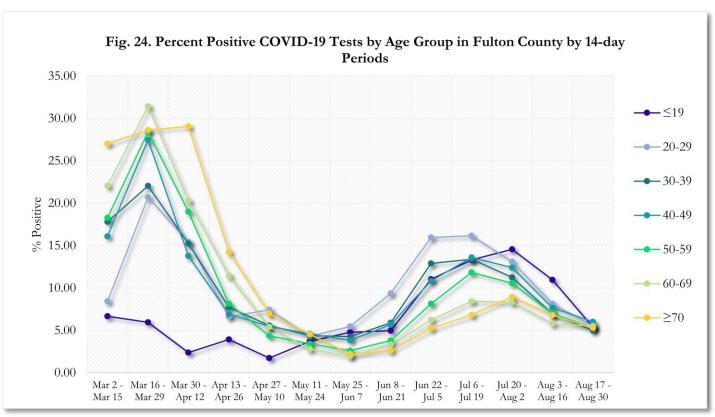


^{*}Reported date of death used. Graph above reflects the trend in deaths attributed to COVID-19. The trend is likely to change as more data on deaths among persons with COVID-19 is reported in the state surveillance database.

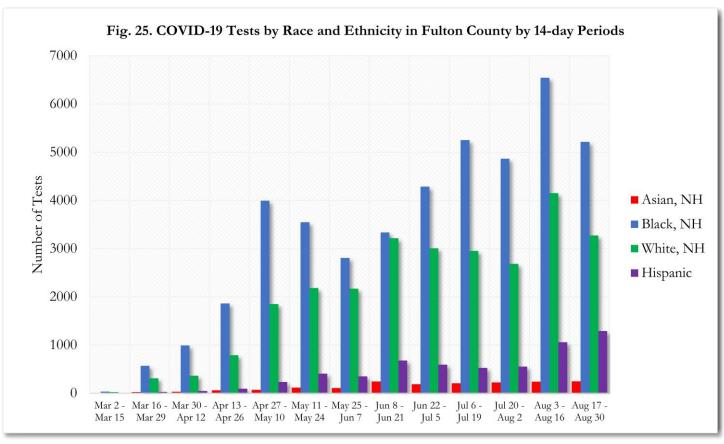
COVID-19 TESTING AND POSITIVITY IN FULTON COUNTY BY AGE AND RACE



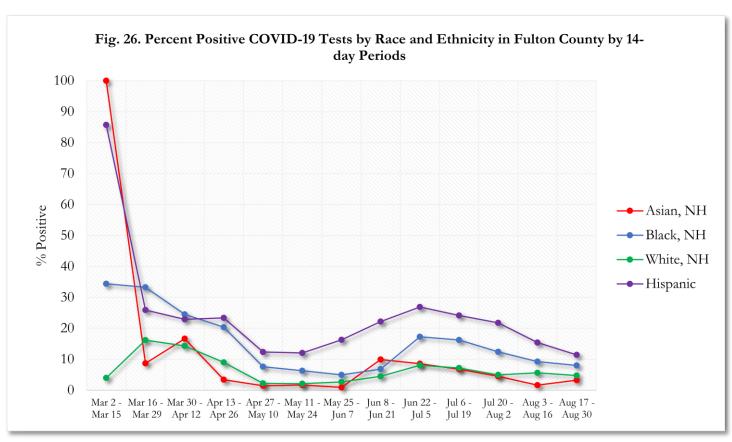
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



^{*}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.

COVID-19 CASE COUNTS BY ZIP CODE

	Prior (9/4/20)	Current To	tal (9/9/20)		New Cases (Period: 8/05/20 – 9/02/20) ¹			
	Count	Count	0/0	1st 14 days (Aug 5 – Aug 20)	Last 14 d. (Aug 21 – Sept 2)	% change ²		
All Fulton	25432	25862	100.0%	2196	1841	↓ 16.2%		
30004	942	964	3.7%	122	145	† 18.9%		
30005	474	493	1.9%	47	63	† 34.0%		
30009	373	398	1.5%	33	66	↑ 100.0%		
30022	1044	1067	0.8%	129	113	↓ 12.4%		
30023	<10	<10	<0.1%	<10	<10	-		
30024	15	17	<0.1%	<10	<10	-		
30075	945	987	3.8%	96	124	↑ 29.2%		
30076	926	964	3.7%	136	92	↓ 32.4%		
30080	<10	<10	<0.1%	0	0	-		
30097	231	242	0.9%	18	20	† 11.1%		
30098	-	394	1.5%	27	22			
30135	<10	<10	<0.1%	0	0	-		
30138	<10	<10	<0.1%	0	0	-		
30139	-	-	-	0	0	-		
30213	978	988	3.8%	86	48	↓ 44.2%		
30268	172	182	0.7%	26	15	J 42.3%		
30291	703	712	2.8%	52	33	↓ 36.5%		
30296	42	42	0.2%	<10	<10	-		
30301	<10	<10	<0.1%	<10	0	↓ 100.0%		
30303	370	372	1.4%	21	<10	J 57.1%		
30305	690	710	2.7%	37	38	↑ 2.7%		
30306	318	329	1.3%	21	26	↑ 23.8%		
30307	184	184	0.7%	21	16	↓ 23.8%		
30308	457	472	1.8%	25	59	↑ 136.0%		
30309	700	718	2.8%	44	45	↑ 2.3%		
30310	673	687	2.7%	55	30	-		
30311	725	738	2.9%	54	32	↓ 40.7%		
30312	730	739	2.9%	51	28	↓ 45.1%		
30313	183	198	0.8%	14	43	↑ 207.1%		
30314	527	530	2.0%	35	20	↓ 42.9%		
30315	778	785	3.0%	84	62	↓ 26.2%		
30316	370	372	1.4%	32	20	↓ 37.5%		
30318	1504	1540	6.0%	113	88	↓ 22.1%		
30319	122	122	0.5%	<10	12	↑ 100.0%		
30321	13	13	<0.1%	0	<10	-		
30324	815	833	3.2%	49	43	↓ 12.2%		
30326	202	206	0.8%	14	12	↓ 14.3%		
30327	475	486	1.9%	41	32	↓ 22.0%		
30328	720	734	2.8%	45	56	↑ 24.4%		
30331	1609	1629	6.3%	131	67	↓ 48.9%		
30334	796	810	3.1%	78	52	↓ 33.3%		
30336	78	78	0.3%	<10	0	↓ 100.0%		
30337	304	305	1.2%	33	15	↓ 54.5%		
30338	162	159	0.6%	22	<10	↓ 63.6%		
30339	291	295	1.1%	35	16	↓ 54.3%		
30340	37	37	0.1%	<10	<10	-		
30341	38	39	0.2%	<10	<10	-		
30342	1080	1101	4.3%	61	74	† 21.3%		
30344	14	14	<0.1%	0	<10	-		
30345	36	35	0.1%	0	0	-		

30349	1651	1665	6.4%	179	73	↓ 59.2%
30350	505	529	2.0%	45	39	↓ 13.3%
30354	385	394	1.5%	27	22	↓ 18.5%
30358	<10	<10	<0.1%	0	<10	-
30363	56	56	0.2%	<10	<10	-
30374	31	31	0.1%	0	0	-
30606	<10	<10	<0.1%	0	0	-
31131	<10	<10	<0.1%	<10	<10	-
31150	<10	<10	<0.1%	<10	0	↓ 100.0%
Unknown	1344	817	3.2%	56	69	-

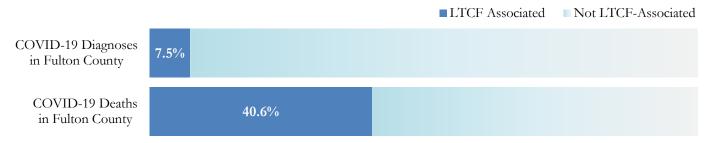
<u>New cases:</u> Cases diagnosed in most recent 28 days (based on reported dates of positive sample collection). To allow for lag in reporting results of new diagnoses from samples collected in the most recent week, data used for incident diagnoses analyses were moved back by one week. <u>Percent change: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

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

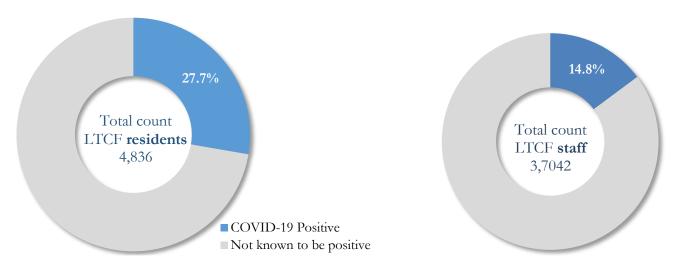
Fig. 27. COVID-19 Diagnoses and Deaths in Fulton County Associated with Long-Term Care Facilities



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

COVID-19 POSITIVITY:

Fig. 28. COVID-19 Positivity at 60 reporting Long-Term Care Facilities (LTCF) in Fulton County



COVID-19 Cases, Hospitalizations, and Deaths among 60 reporting Long-Term Care Facilities in Fulton County

	LTO	CF Residents (n=4,8	836)	LTCF Staff (n=3,742)			
	Cases	Hospitalizations	Deaths	Cases	Hospitalizations	Deaths	
Average (count per fac.)1	22	5	4	9	1	< 0.1	
Median (count per fac.)1	9	2	0	4	0	0	
Lowest counts	1	0	0	0	0	0	
Highest counts	137	48	29	66	8	2	
Total Count	1340 (27.7%) ^a	301 (22.5%) ^b	212 (15.8%) ^b	555 (14.8%) ^a	32 (5.8%) ^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.