

Fulton County Board of Health Epidemiology Report

COVID-19 Diagnoses – 8/21/2020

SUMMARY

- As of August 21, 2020, Fulton County has recorded **23,335** cases of the 2019 novel coronavirus (COVID-19) and **487** deaths.
- Of 2,426 **new diagnoses** made between August 1 and August 14, the central portion of the county (Atlanta metro) accounted for 35% while the northern and southern parts accounted for 30% and 21% respectively.
- By city, new COVID-19 diagnoses rates range from 153.0 per 100,000 persons (Johns Creek) to 457.5 per 100,000 persons (Palmetto). [Fulton County Diagnoses Rates (per 100,000 persons): Cumulative 2193.3; Incident –228.0]. See map showing incident case rate by ZIP code on Pg.4.
- Among all persons diagnosed with COVID-19 in Fulton County, 8.8% required hospitalization and 2.1% died.
- Residents and staff of long-term care facilities account for 7.7% of COVID-19 diagnoses and 44.1% of COVID-19 deaths in Fulton County.

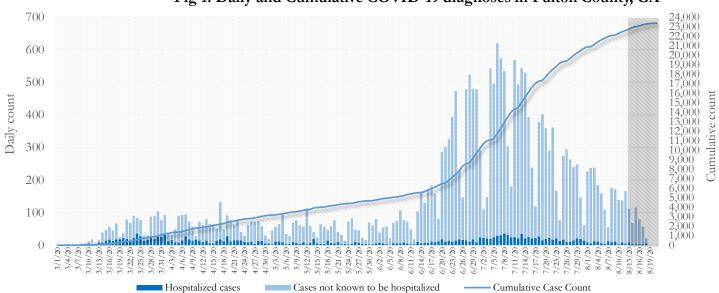


Fig 1. Daily and Cumulative COVID-19 diagnoses in Fulton County, GA

*Counts shown reflect the number of confirmed cases as of 9:00am on 8/21/20 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.

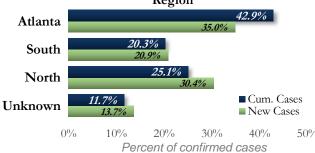
DISTRIBUTION OF COVID-19 DIAGNOSES BY REGION

New cases: 35% of the new COVID-19 cases diagnosed in the past 2 weeks occurred in Atlanta while 30% and 21% occurred in the Northern and Southern regions of the county respectively.

Fulton Region	% Cumulative	% New	
	count	cases*	
Atlanta	42.9%	35.0%	
North ¹	25.1%	30.4%	
South ²	20.3%	20.9%	
Unincorporated/Unknown	11.7%	13.7%	

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 8/01/20 - 8/14/20).

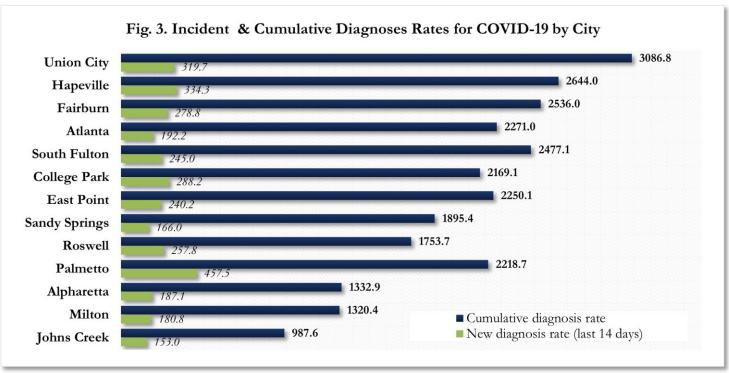
Fig. 2. Distribution of COVID 19 cases by Region



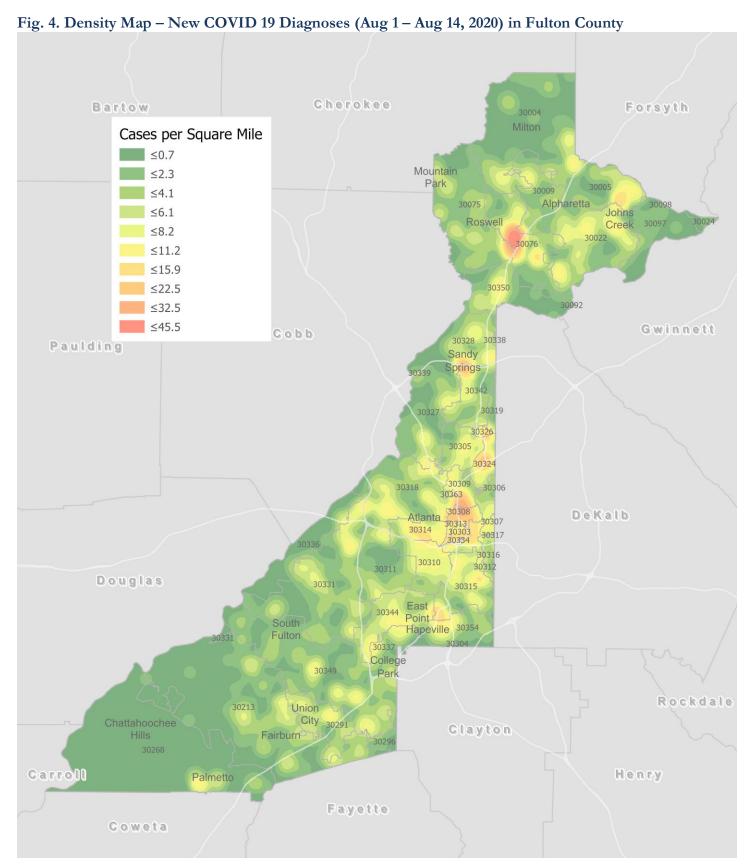
COVID-19 CASE COUNTS AND RATES BY CITY

	Prior (8/19/20)	Current Total (8/21/20)			New Cases (Period: 7/17/20 – 8/14/20) ¹				
	Count	Count	%	Cum. Rate ²	1 st 14 d. (7/17– 7/31)	Last 14 d. (8/01– 8/14)	% change ³	Rate ⁴ (<i>Last 14</i> d).	
Atlanta	9765	10019	42.9%	2271.0	1426	848	↓ 40.5%	192.2	
South Fulton	2306	2356	10.1%	2477.1	376	233	↓ 38.0%	245.0	
Sandy Springs	1979	1998	8.6%	1895.4	310	175	↓ 43.5%	166.0	
Roswell	1596	1653	7.1%	1753.7	374	243	↓ 35.0%	257.8	
East Point	764	787	3.4%	2250.1	146	84	↓ 42.5%	240.2	
Johns Creek	792	826	3.5%	987.6	162	128	↓ 21.0%	153.0	
Union City	635	647	2.8%	3086.8	99	67	↓ 32.3%	319.7	
Alpharetta	833	862	3.7%	1332.9	206	121	↓ 41.3%	187.1	
Milton	484	504	2.2%	1320.4	87	69	↓ 20.7%	180.8	
Fairburn	369	373	1.6%	2536.0	69	41	↓ 40.6%	278.8	
College Park	291	301	1.3%	2169.1	51	40	↓ 21.6%	288.2	
Palmetto	97	97	0.4%	2218.7	10	20	↑ 100.0%	457.5	
Hapeville	167	174	0.7%	2644.0	20	22	† 10.0%	334.3	
Mountain Park	5	5	0.0%	800.0	<10	<10	-	320.0	
Chattahooche Hills	0	0	0.0%	-	-	-	-	-	
Unknown	3252	2733	11.7%	-	504	328	-		

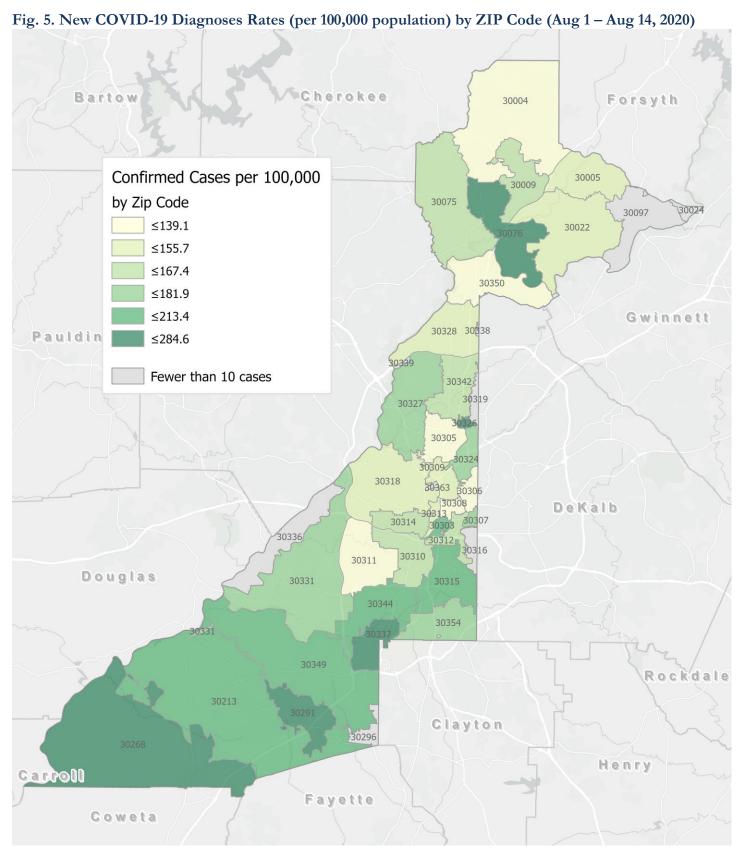
*New cases: Cases diagnosed in most recent 28 days (based on reported dates of positive sample collection). To allow for lag in reporting results of new diagnoses from samples collected in the most recent week, data used for incident diagnoses analyses were moved back by one week. *Cumulative diagnosis 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 1st and Aug 14th, 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 (8/19/20)	Current To	Current Total (8/21/20)		New Cases (Period: 7/17/20 – 8/14/20) ¹			
	Count	Count	0/0	1st 14 days (Jul 17 – Jul 31)	Last 14 d. (Aug 1 – Aug 14)	% change ²		
All Fulton	22074	23335	100.0%	3821	2426	↓ 36.5%		
30331	1493	1531	6.6%	250	138	↓ 44.8%		
30318	1350	1402	6.0%	224	126	↓ 43.8%		
30349	1537	1570	6.7%	269	176	↓ 34.6%		
30213	897	914	3.9%	160	109	↓ 31.9%		
30315	686	712	3.1%	125	93	↓ 25.6%		
30344	702	728	3.1%	137	85	↓ 38.0%		
30311	666	688	2.9%	137	67	↓ 51.1%		
30342	993	999	4.3%	127	71	↓ 44.1%		
30314	488	501	2.1%	67	44	↓ 34.3%		
30310	627	640	2.7%	89	56	↓ 37.1%		
30308	396	402	1.7%	47	30	↓ 36.2%		
30022	887	919	3.9%	193	136	↓ 29.5%		
30327	400	417	1.8%	49	52	↑ 6.1%		
30004	745	779	3.3%	145	108	↓ 25.5%		
30309	640	652	2.8%	74	53	↓ 28.4%		
30076	784	824	3.5%	183	159	↓ 13.1%		
30291	652	662	2.8%	101	61	↓ 39.6%		
30350	451	455	1.9%	83	46	↓ 44.6%		
30075	800	820	3.5%	189	100	↓ 47.1%		
30328	643	655	2.8%	122	62	↓ 49.2%		
30316	337	343	1.5%	67	29	↓ 56.7%		
30312	684	691	3.0%	63	42	↓ 33.3%		
30005	394	408	1.7%	90	60	↓ 33.3%		
30305	624	638	2.7%	78	39	↓ 50.0%		
30306	271	290	1.2%	46	25	↓ 45.7%		
30324	754	768	3.3%	88	63	↓ 28.4%		
30337	274	284	1.2%	49	35	↓ 28.6%		
30009	307 138	319 141	1.4%	81 15	38	↓ 53.1% ↑ 6.79/		
30313 30326	184	189	0.6%	26	16 13	↑ 6.7% ↓ 50.0%		
30097	169	172	0.7%	44	12	↓ 72.7%		
30354	351	361	1.5%	67	35	↓ 47.8%		
30303	368	365	1.6%	51	17	↓ 66.7%		
30339	267	275	1.2%	49	40	↓ 18.4%		
30268	160	161	0.7%	22	28	↑ 27.3%		
30307	155	164	0.7%	35	26	↓ 25.7%		
30319	107	109	0.5%	13	<10	↓ 53.8%		
30336	77	77	0.3%	<10	<10	-		
30296	38	38	0.2%	<10	<10	-		
30363	53	55	0.2%	<10	<10	_		
30301	<10	<10	<0.1%	0	<10	-		
30345	38	38	0.2%	<10	<10	-		
31131	<10	<10	<0.1%	<10	0	↓ 100.0%		
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	10	11	<0.1%	<10	<10	-		
30340	32	32	0.1%	<10	<10	-		

30341	39	38	0.2%	10	<10	↓ 90.0%
30358	<10	<10	<0.1%	<10	0	↓ 100.0%
30374	31	31	0.1%	<10	<10	-
30606	<10	<10	<0.1%	0	0	-
31150	<10	<10	<0.1%	0	<10	-
30024	12	12	<0.1%	<10	<10	-
30098	-	-	-	0	0	-
30334	14	14	<0.1%	<10	0	↓ 100.0%
30338	149	156	0.7%	34	25	↓ 26.5%
Unknown	1423	846	3.6%	82	76	-

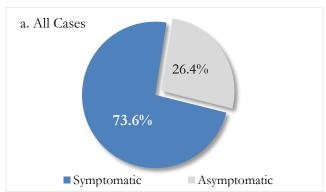
<u>New cases:</u> Cases diagnosed in most recent 28 days (based on reported dates of positive sample collection). To allow for lag in reporting results of new diagnoses from samples collected in the most recent week, data used for incident diagnoses analyses were moved back by one week. <u>Percent change: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

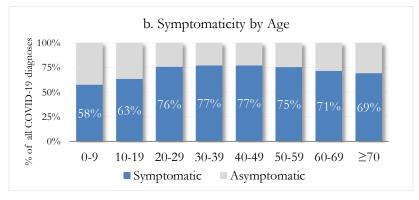
<u>Note:</u> Sharp increases in territorial COVID case counts often reflect new cases diagnosed at long term care facilities located in those territories during facility-wide /mass screening events All data reported are preliminary and subject to change.

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

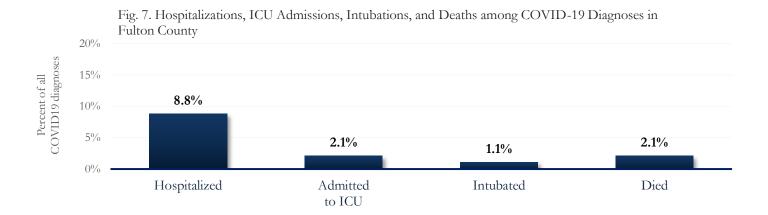
Fig. 6a & b. Proportion Reporting Symptoms in Fulton





COVID-19 cases who have been case interviewed or had medical charts reviewed as at 8/21/20 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

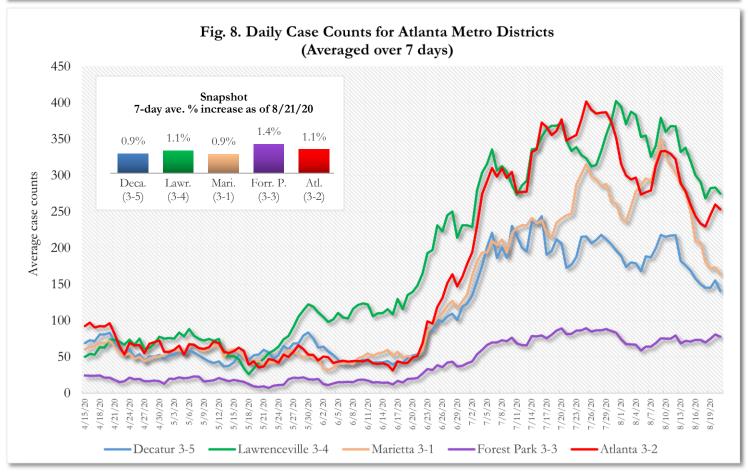
		North Fulton Cities ¹	Atlanta	South Fulton Cities ²	Unknown City	All Fulton
		Count (%)	Count (%)	Count (%)	Count (%)	Count (%)
Total COVID-19 cases		5848	10019	4735	2733	23335
Gende	r: Female	2873 (49.1%)	4812 (48.0%)	2580 (54.5%)	1342 (49.1%)	11607 (49.7%)
	Male	2720 (46.5%)	4557 (45.5%)	1913 (40.4%)	1238 (45.3%)	10428 (44.7%)
	Unknown	255 (4.4%)	650 (6.5%)	242 (5.1%)	153 (5.6%)	1300 (5.6%)
Age:	0-9	179 (3.1%)	179 (1.8%)	137 (2.9%)	72 (2.6%)	567 (2.4%)
	10-19	779 (13.3%)	592 (5.9%)	312 (6.6%)	175 (6.4%)	1858 (8.0%)
	20-29	1291 (22.1%)	2831 (28.3%)	939 (19.8%)	701 (25.6%)	5762 (24.7%)
	30-39	955 (16.3%)	2193 (21.9%)	965 (20.4%)	584 (21.4%)	4697 (20.1%)
	40-49	938 (16.0%)	1336 (13.3%)	854 (18.0%)	428 (15.7%)	3556 (15.2%)
	50-59	818 (14.0%)	1130 (11.3%)	667 (14.1%)	337 (12.3%)	2952 (12.7%)
	60-69	442 (7.6%)	776 (7.7%)	450 (9.5%)	215 (7.9%)	1883 (8.1%)
	≥70	437 (7.5%)	958 (9.6%)	398 (8.4%)	213 (7.8%)	2006 (8.6%)
	Unknown	<10	24 (0.2%)	13 (0.3%)	<10	54 (0.2%)
Race:	Asian, NH	130 (2.2%)	126 (1.3%)	16 (0.3%)	45 (1.6%)	317 (1.4%)
	Black, NH	520 (8.9%)	4159 (41.5%)	2594 (54.8%)	743 (27.2%)	8016 (34.4%)
	White, NH	1539 (26.3%)	1606 (16.0%)	166 (3.5%)	488 (17.9%)	3799 (16.3%)
	Hispanic	907 (15.5%)	542 (5.4%)	292 (6.2%)	258 (9.4%)	1999 (8.6%)
	Other, NH	211 (3.6%)	258 (2.6%)	80 (1.7%)	101 (3.7%)	650 (2.8%)
	Unknown	2541 (43.5%)	3328 (33.2%)	1587 (33.5%)	1098 (40.2%)	8554 (36.7%)

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

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	North Fulton Cities ¹ Count (%)	Atlanta Count (%)	South Fulton Cities ² Count (%)	Unknown City Count (%)	All Fulton Count (%)		
Total COVID-19 death	s 91	231	126	39	487		
Gender: Female	40 (44.0%)	102 (44.2%)	67 (53.2%)	23 (59.0%)	232 (47.6%)		
Male	51 (56.0%)	129 (55.8%)	59 (46.8%)	16 (41.0%)	255 (52.4%)		
Unknown	0	0	0	0	0		
Age: ≤ 29	0	<10	<10	0	<10		
30-39	<10	<10	<10	<10	11 (2.3%)		
40-49	<10	<10	<10	<10	18 (3.7%)		
50-59	<10	20 (8.7%)	16 (12.7%)	<10	41 (8.4%)		
60-69	<10	45 (19.5%)	31 (24.6%)	<10	88 (18.1%)		
≥70	73 (80.2%)	151 (65.4%)	69 (54.8%)	32 (82.1%)	325 (66.7%)		
Unknown	0	0	0	0	0		
Race: Asian, NH	<10	<10	<10	<10	<10		
Black, NH	17 (18.7%)	194 (84.0%)	108 (85.7%)	20 (51.3%)	339 (69.6%)		
White, NH	68 (74.7%)	26 (11.3%)	11 (8.7%)	16 (41.0%)	121 (24.8%)		
Hispanic	<10	<10	<10	<10	15 (3.1%)		
Other, NH	0	<10	<10	0	<10		
Unknown	0	<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

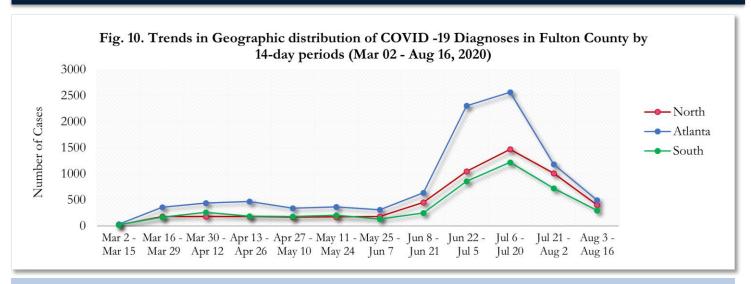


^{*}Graph shows the average number of cases calculated from the daily cumulative case counts in the metro Atlanta districts. Increases in daily cumulative case counts may include cases diagnosed earlier during the pandemic but were only recently reported to the state as cases diagnosed belonging to these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

Hall Forsyth Bartow Cherokee Jackson P6K Barrow Paulding Gwinnett Oconee Walton ulton DeKalb Douglas Rockdale Morgan Clayton Newton Carroll Henry Favette **Health Districts** Cases per Square Mile ≤1.7 ≤3.5 Jasper ≤5.6 Spalding 3-4 ≤7.8 3-1 ≤10.4 3-5 ≤13.5 ≤17.8 ≤23.9 Troup ≤31.9 Jones Pike onroe ≤47.2 4.Upson

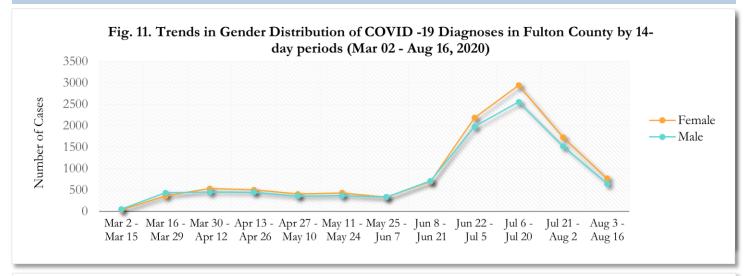
Fig. 9. COVID-19 Cases in Fulton County and Surrounding Districts (Aug 1 – Aug 14, 2020

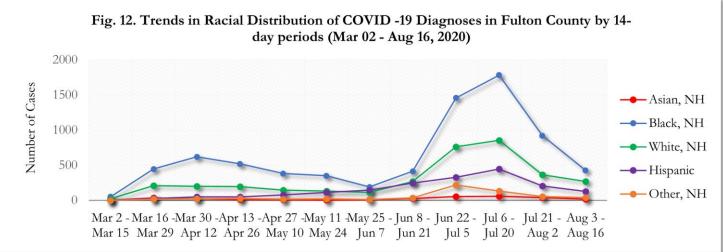
TRENDS IN COVID-19 CASES AMONG DEMOGRAPHIC GROUPS (14 DAY PERIODS)



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

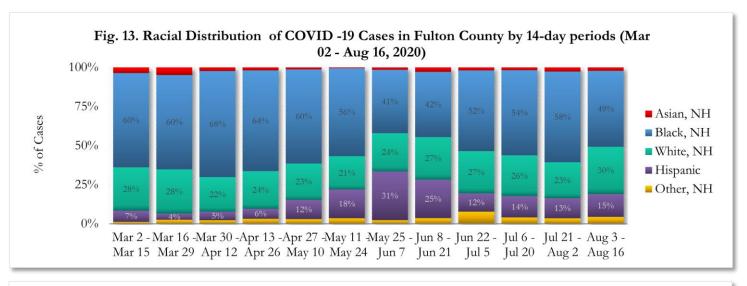
^{*}South - Includes all Fulton cities south of Atlanta (College Park, Chattahoochee Hills, East Point, Hapeville, Palmetto, South Fulton, Fairburn, and Union City)

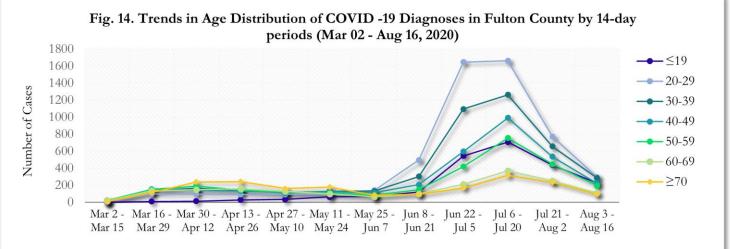




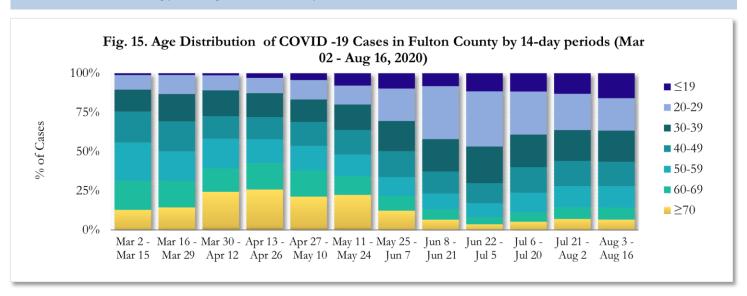
About 38% of COVID cases are missing data on patient race and ethnicity. Of cases with race and ethnicity reported, majority are Black non-Hispanic, followed by a smaller number of cases reporting White (non-Hispanic and Hispanic) race.

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

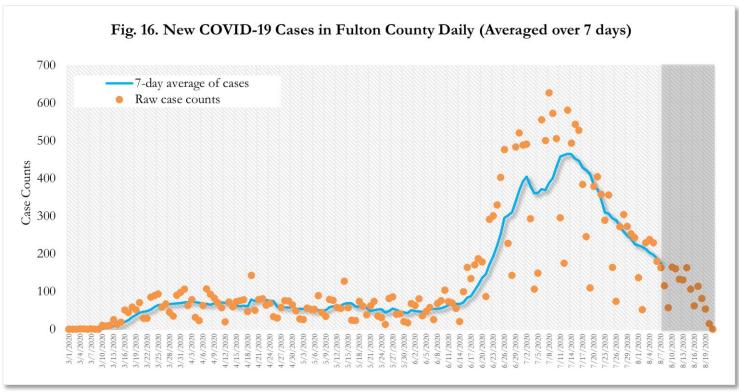




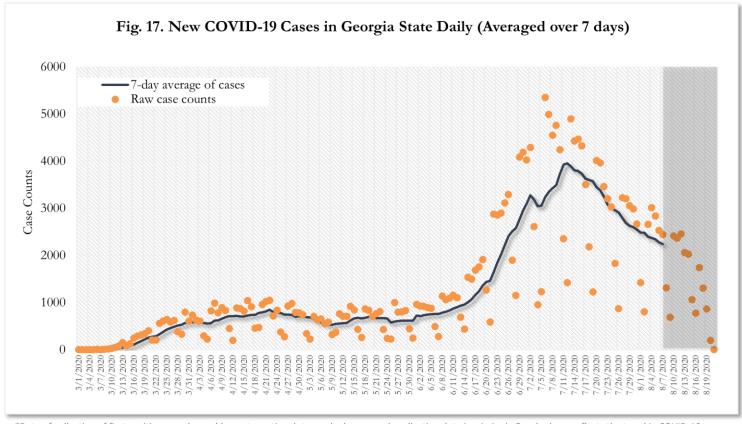
Earlier (March-May 2020) large proportions of reported cases were among persons aged 60 and older. However, starting in June, a much higher number of cases were among persons aged between 20-29 years.



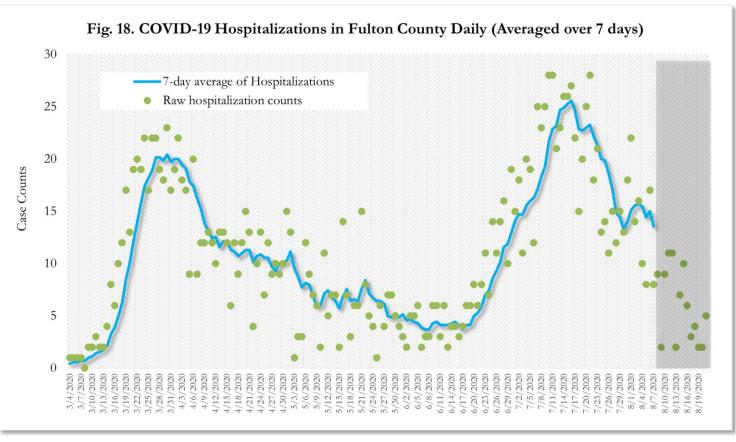
TRENDS IN COVID-19 CASES, HOSPITALIZATIONS AND DEATHS (7-DAY MOVING AVE.)



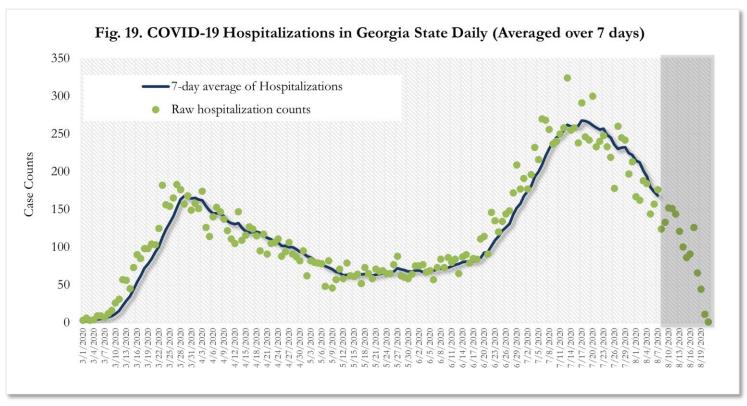
^{*}Date of collection of first positive sample used (report creation date used where sample collection date is missing). Graph above reflects the trend in COVID-19 diagnosis. Due to the high volume of testing in recent weeks, there have been delays in reporting lab results. Thus, the trend is subject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



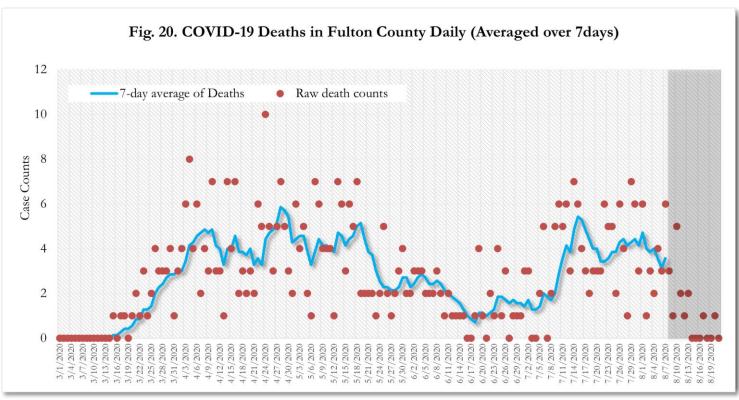
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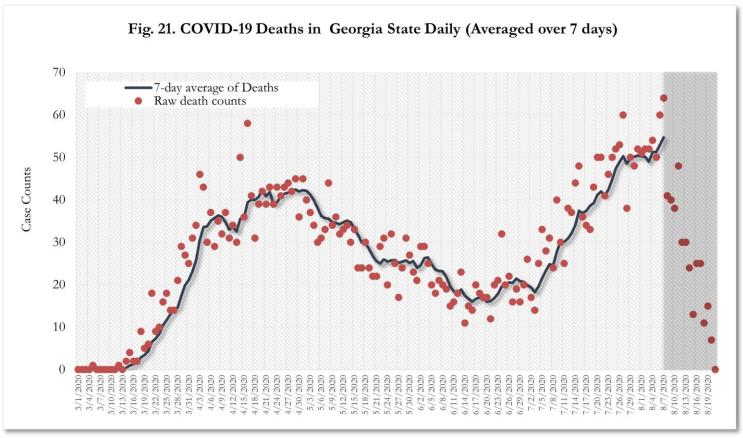
^{*}Reported date of hospital admission used. Graph above reflects the trend in COVID-19 hospitalizations. Due to the high volume of new cases being added daily, there have been delays in reporting hospitalization data. Thus, the trend is likely to change as more hospitalization data is reported in the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

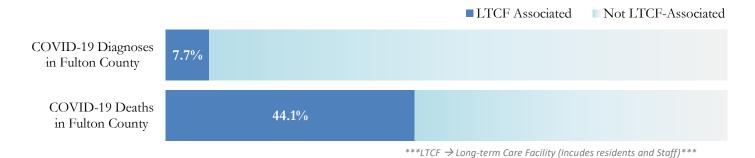


^{*}Reported date of death used. Graph above reflects the trend in deaths attributed to COVID-19. The trend is likely to change as more data on deaths among persons with COVID-19 is reported in the state surveillance database.

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

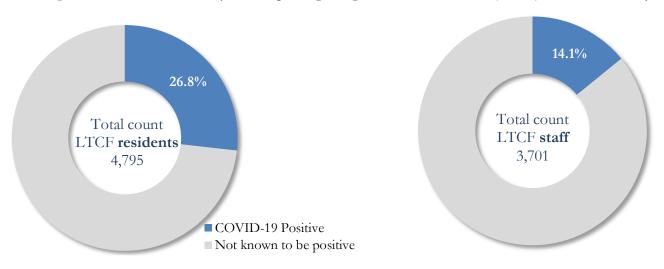
Older persons (aged 65 years and older) and persons who live in nursing homes or other long-term care facilities seem to be at higher risk for developing more serious complications from COVID-19. Extra precautions are recommended for individuals within this risk groups – Centers for Disease Control and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

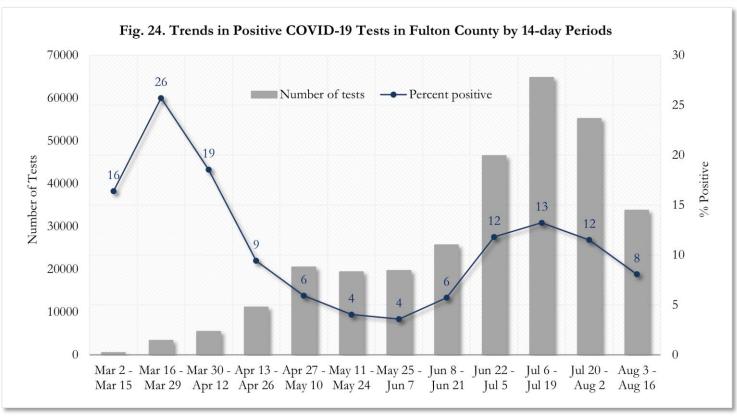


COVID-19 Cases, Hospitalizations, and Deaths among 59 reporting Long-Term Care Facilities in Fulton County

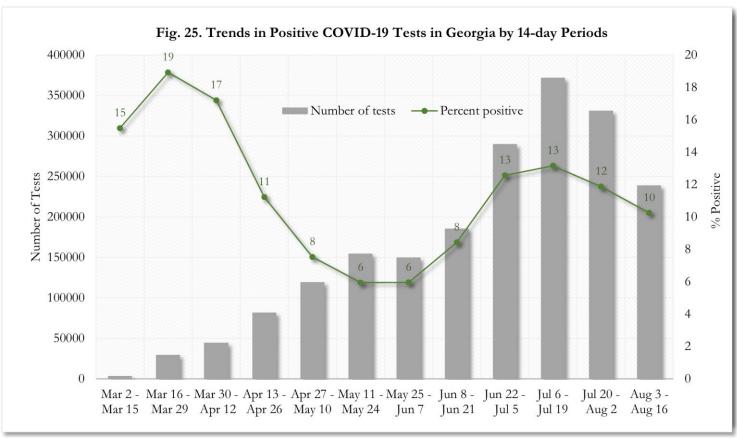
	LT	CF Residents (n=4,	795)	LTCF Staff (n=3,701)			
	Cases	Hospitalizations	Deaths	Cases	Hospitalizations	Deaths	
Average (count per fac.)1	22	5	4	9	1	< 0.1	
Median (count per fac.)1	8	2	0	5	0	0	
Lowest counts	1	0	0	0	0	0	
Highest counts	136	48	29	62	8	2	
Total Count	1284 (26.8%)a	289 (22.5%) ^b	210 (16.4%) ^b	523 (14.1%) ^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.

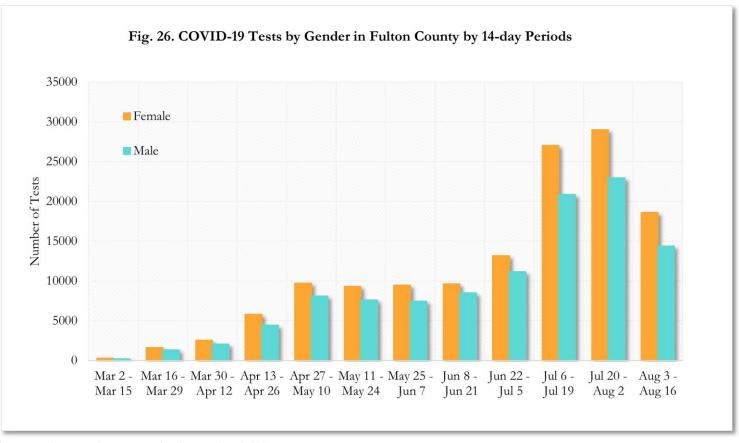
COVID-19 TESTING AND POSITIVITY IN FULTON COUNTY



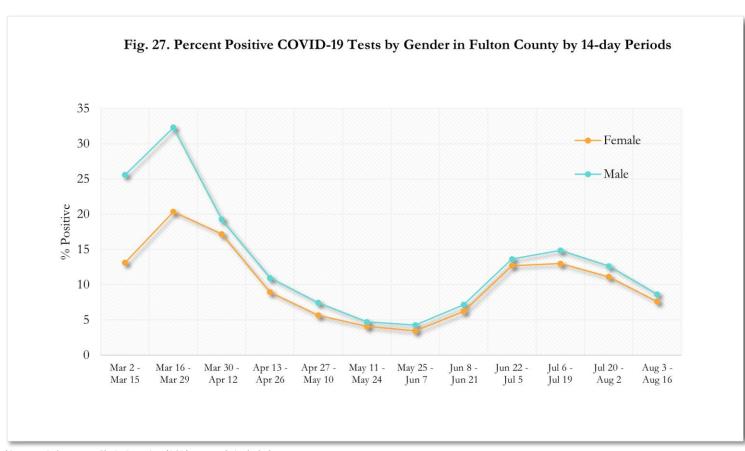
*Data on Polymerase Chain Reaction (PCR) tests only included.



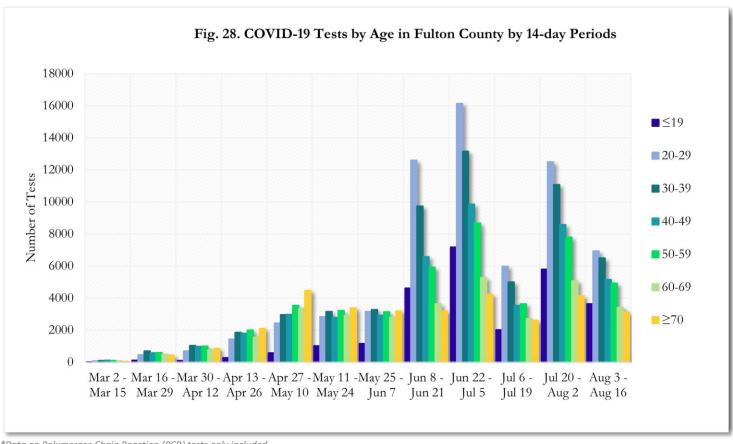
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



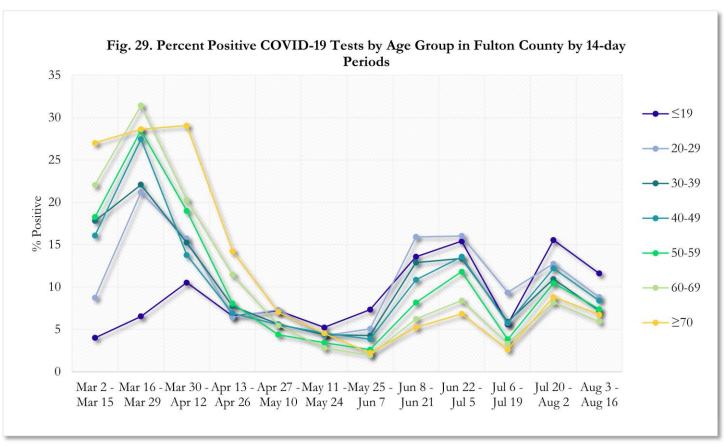
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



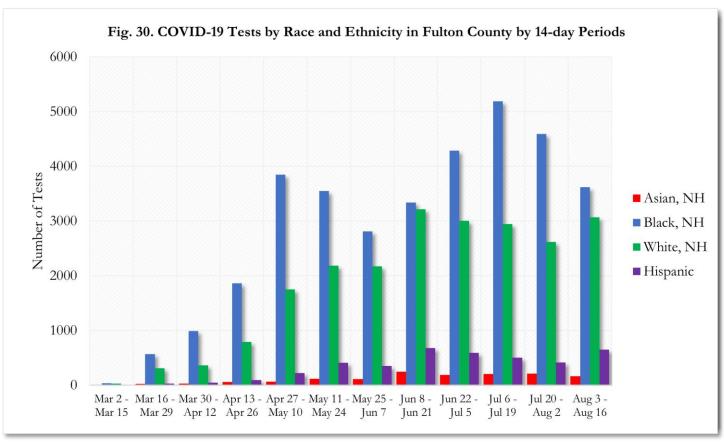
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



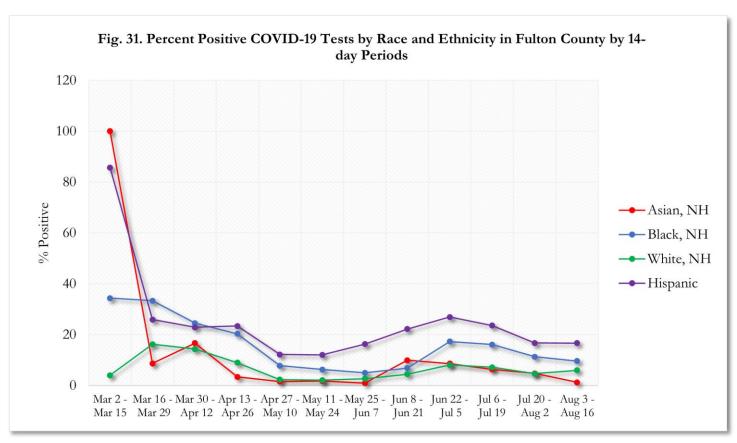
^{*}Data on Polymerase Chain Reaction (PCR) tests only included.



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