Fulton County Board of Health Epidemiology Report
## COVID-19 Diagnoses – 7/9/2020

SUMMARY

- As of July 8, 2020, Fulton County has recorded **9,374** cases of the 2019 novel coronavirus (COVID-19) and **318** deaths.
- Of 3,297 **new diagnoses** made between June 17 and June 30, the central portion of the county (Atlanta metro) accounted for 49% while the northern and southern parts accounted for 21% and 18% respectively.
- By city, **new** COVID-19 diagnoses rates range from 111.2 per 100,000 persons (Johns Creek) to 367.4 per 100,000 persons (Union City). [Fulton County Diagnoses Rates (per 100,000 persons): Cumulative – 880.3; Incident – 309.9]. See map showing incident case rate by ZIP code on Pg.4.
- Among all persons diagnosed with COVID-19 in Fulton County, 12.8% required hospitalization and 3.4% died.
- Residents and staff of long-term care facilities account for 14% of COVID-19 diagnoses and 57% of COVID-19 deaths in Fulton County

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

Legend: Hospitalized cases | Cases not known to be hospitalized | Cumulative Case Count
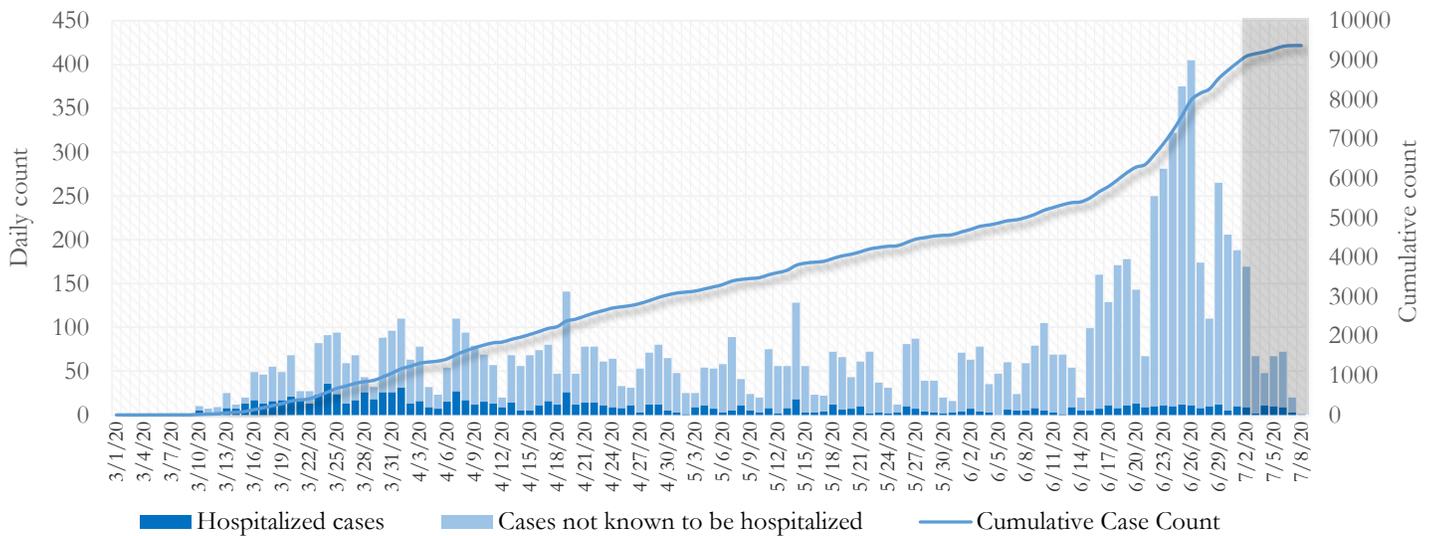
*Counts shown reflect the number of confirmed cases as of 9:00am on 7/08/20 using the date of first positive sample collection. Where date of sample collection was not available or missing, the date of report creation in GA SENDSS was used instead. **Note:** All data reported are preliminary and subject to change. Delays in data reporting may cause changes in data counts, particularly in the shaded portion.*
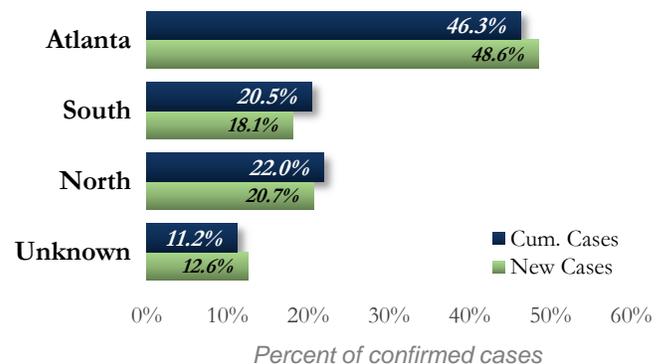
DISTRIBUTION OF COVID-19 DIAGNOSES BY REGION

New cases: 49% of the new COVID-19 cases diagnosed in the past 2 weeks occurred in Atlanta while 21% and 18% occurred in the Northern and Southern regions of the county respectively.

Fulton Region	% Cumulative count	% New cases*
Atlanta	46.3%	48.6%
North[1]	22.0%	20.7%
South[2]	20.5%	18.1%
Unincorporated/Unknown	11.2%	12.6%

[1]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 6/17/20 – 6/30/20).*
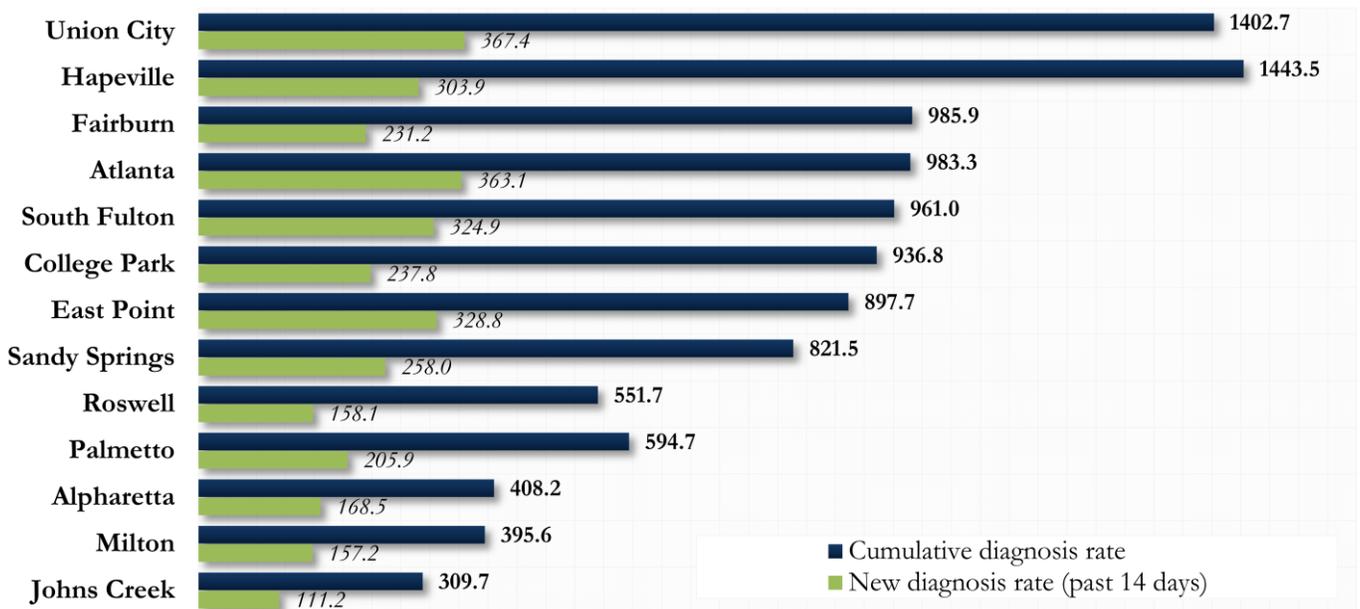
Fig. 2. COVID 19 cases by Region

Region	Cum. Cases	New Cases
Atlanta	46.3%	48.6%
South	20.5%	18.1%
North	22.0%	20.7%
Unknown	11.2%	12.6%

Percent of confirmed cases

COVID-19 CASE COUNTS AND RATES BY CITY

|	Prior (7/06/20)	Current Total (7/08/20)			New Cases *(Period: 6/03/20 – 7/01/20)*[1]			
	Count	Count	%	Cum. Rate[2]	Ist 14 d. *(6/03–6/16)*	Last 14 d. *(6/17–7/01)*	% change[3]	Rate[4] *(Last 14 d).*
Atlanta	4159	4338	46.3%	983.3	418	1602	↑ 283.3%	363.1
South Fulton	866	914	9.8%	961.0	75	309	↑ 312.0%	324.9
Sandy Springs	824	866	9.2%	821.5	129	272	↑ 110.9%	258.0
Roswell	497	520	5.6%	551.7	93	149	↑ 60.2%	158.1
East Point	292	314	3.4%	897.7	29	115	↑ 296.6%	328.8
Johns Creek	250	259	2.8%	309.7	40	93	↑ 132.5%	111.2
Union City	288	294	3.1%	1402.7	20	77	↑ 285.0%	367.4
Alpharetta	261	264	2.8%	408.2	37	109	↑ 194.6%	168.5
Milton	142	151	1.6%	395.6	22	60	↑ 172.7%	157.2
Fairburn	141	145	1.5%	985.9	15	34	↑ 126.7%	231.2
College Park	125	130	1.4%	936.8	<10	33	↑ 371.4%	237.8
Palmetto	22	26	0.3%	594.7	0	<10	-	205.9
Hapeville	90	95	1.0%	1443.5	28	20	↓ 28.6%	303.9
Mountain Park	0	0	0.0%	-	0	0	-	0.0
Unknown	856	1050	11.2%	-	81	300	-	-

[1]**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.* [2]**Cumulative diagnosis rate:** *Population estimates from US Census Bureau used to calculate cumulative diagnoses rate. All rates shown are per 100,000 persons.* [3]**Percent 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* [4]**Incidence Rate:** *Rate of new diagnoses in the recent past 14 days.***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**.

Fig. 3. Incident & Cumulative Diagnoses Rates for COVID-19 by City

City	Cumulative diagnosis rate	New diagnosis rate (past 14 days)
Union City	1402.7	367.4
Hapeville	1443.5	303.9
Fairburn	985.9	231.2
Atlanta	983.3	363.1
South Fulton	961.0	324.9
College Park	936.8	237.8
East Point	897.7	328.8
Sandy Springs	821.5	258.0
Roswell	551.7	158.1
Palmetto	594.7	205.9
Alpharetta	408.2	168.5
Milton	395.6	157.2
Johns Creek	309.7	111.2

■ Cumulative diagnosis rate
■ New diagnosis rate (past 14 days)

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 (Jun 17 – Jun 30, 2020) in Fulton County
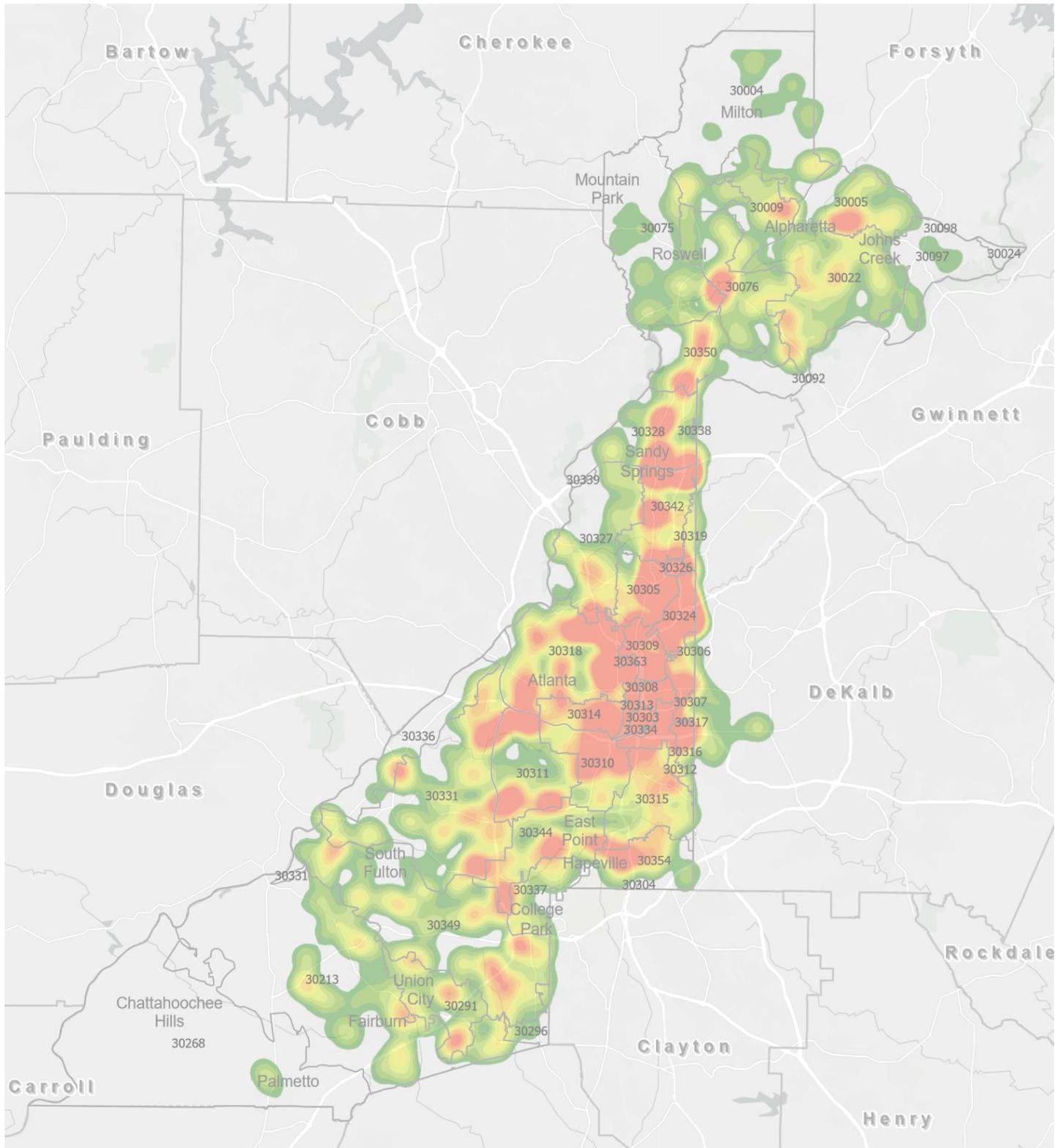
NB. __New COVID-19 cases:__ Cases diagnosed in most recent 14 days (based on reported dates of positive sample collection). To allow for lag in reporting results of positive cases from samples collected in the immediate past7 days, data used for incident diagnoses analyses are moved back by one week. Map reflects new COVID-19 cases diagnosed between June 15th and Jun 28nd, 2020 across Fulton County.

Fig. 5. New COVID-19 Diagnoses Rates by ZIP Code (Jun 17 – Jun 30, 2020)
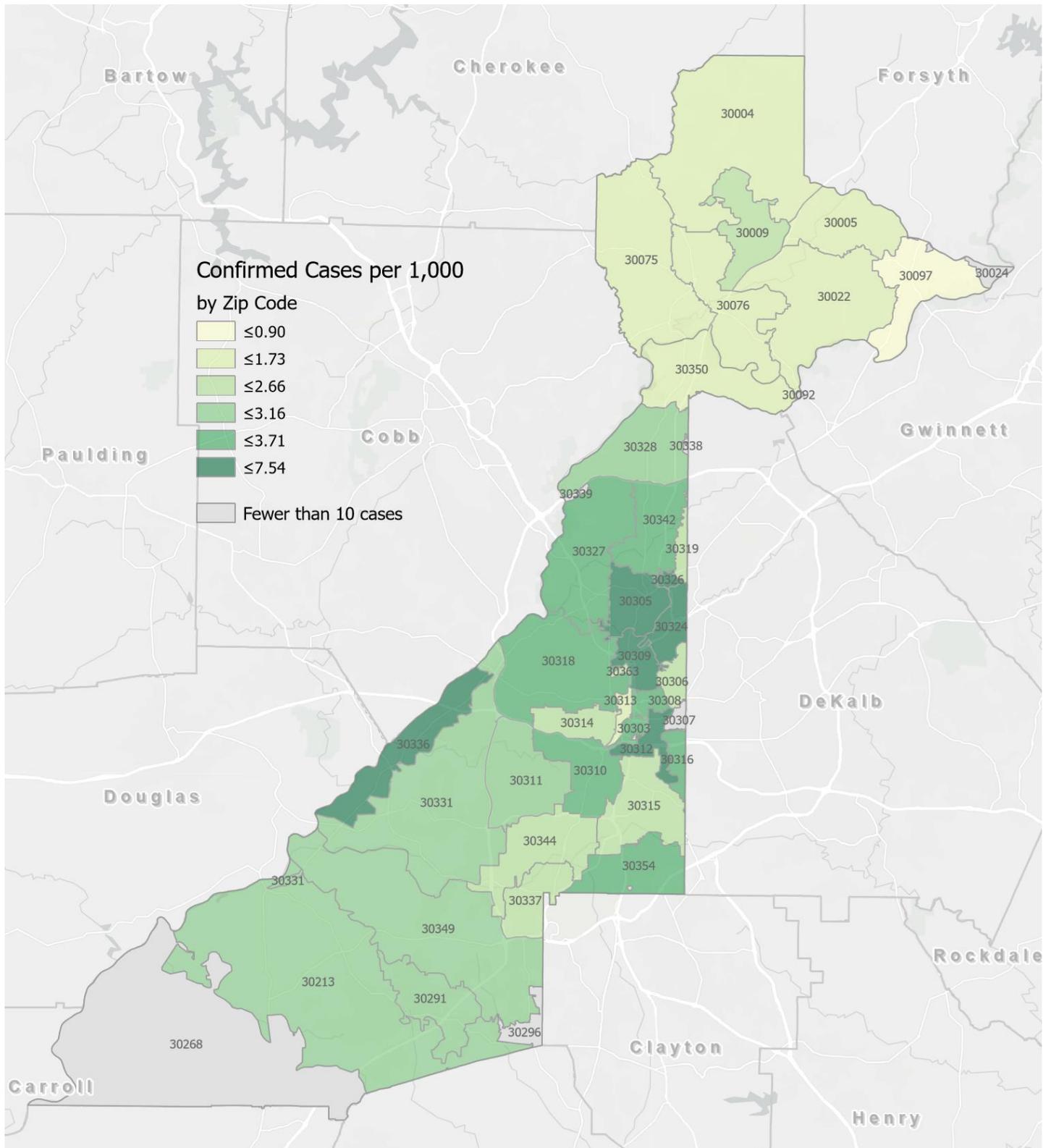
Rates shown are per 1,000 populations.

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 past 7 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 Jun 15ᵗʰ and Jun 28ⁿᵈ 2020.*

COVID-19 CASE COUNTS BY ZIP CODE

| | Prior (7/06/20) | Current Total (7/08/20) | | New Cases *(Period: 6/03/20 – 7/01/20)*[1] | | |
	Count	Count	%	1st 14 days *(Jun 03 – Jun 16)*	Last 14 d. *(Jun 17 – Jun 30)*	% change[2]
All Fulton	8813	9374	100.0%	957	3259	↑ 240.5%
30331	615	648	6.9%	49	196	↑ 300.0%
30318	555	589	6.3%	50	215	↑ 330.0%
30349	516	551	5.9%	37	211	↑ 470.3%
30213	341	354	3.8%	26	115	↑ 342.3%
30315	261	275	2.9%	26	84	↑ 223.1%
30344	261	282	3.0%	24	87	↑ 262.5%
30311	276	285	3.0%	32	102	↑ 218.8%
30342	402	431	4.6%	50	139	↑ 178.0%
30314	272	277	3.0%	14	51	↑ 264.3%
30310	288	305	3.3%	22	104	↑ 372.7%
30308	153	161	1.7%	13	70	↑ 438.5%
30022	260	278	3.0%	36	117	↑ 225.0%
30327	192	209	2.2%	17	88	↑ 417.6%
30004	201	219	2.3%	26	85	↑ 226.9%
30309	282	307	3.3%	22	139	↑ 531.8%
30076	202	221	2.4%	44	76	↑ 72.7%
30291	313	322	3.4%	25	78	↑ 212.0%
30350	208	217	2.3%	53	52	↓ 1.9%
30075	266	278	3.0%	47	75	↑ 59.6%
30328	226	244	2.6%	30	103	↑ 243.3%
30316	104	115	1.2%	11	42	↑ 281.8%
30312	348	365	3.9%	23	114	↑ 395.7%
30005	127	133	1.4%	15	63	↑ 320.0%
30305	286	305	3.3%	42	137	↑ 226.2%
30306	84	95	1.0%	<10	40	↑ 400.0%
30324	333	356	3.8%	48	164	↑ 241.7%
30337	119	125	1.3%	<10	25	↑ 316.7%
30009	102	102	1.1%	16	32	↑ 100.0%
30313	61	64	0.7%	<10	18	↑ 200.0%
30326	75	78	0.8%	10	39	↑ 290.0%
30097	65	69	0.7%	<10	20	↑ 150.0%
30354	153	165	1.8%	37	51	↑ 37.8%
30303	70	75	0.8%	<10	30	↑ 328.6%
30339	58	74	0.8%	<10	50	↑ 2400.0%
30268	30	36	0.4%	<10	11	↑ 1000.0%
30307	37	40	0.4%	<10	17	↑ 466.7%
30319	60	62	0.7%	<10	25	↑ 316.7%
30336	39	41	0.4%	10	11	↑ 10.0%
30296	16	16	0.2%	<10	<10	-
30363	21	24	0.3%	<10	11	↑ 450.0%
30301	<10	<10	<0.1%	<10	0	↓ 100.0%
30345	22	20	0.2%	<10	<10	-
31131	<10	<10	<0.1%	0	<10	-
30023	<10	<10	<0.1%	0	<10	-
30080	<10	<10	<0.1%	0	0	-
30135	<10	<10	<0.1%	0	0	-
30138	<10	<10	<0.1%	0	0	-
30139	-	-	-	0	0	-
30321	<10	<10	<0.1%	0	<10	-
30340	23	22	0.2%	<10	10	↑ 150.0%

30341	23	24	0.3%	<10	<10	-
30358	<10	<10	<0.1%	0	0	-
30374	23	23	0.2%	<10	<10	-
30606	<10	<10	<0.1%	0	0	-
31150	<10	<10	<0.1%	0	0	-
30024	<10	<10	<0.1%	0	<10	-
30098	-	-	-	0	0	-
30334	<10	<10	<0.1%	0	<10	-
30338	24	31	0.3%	<10	21	↑ 950.0%
Unknown	389	429	4.6%	40	109	-

[1]*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.* [2]*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. 6. Proportion Reporting Symptoms in Fulton County

28.6%
71.4%
■ Had symptoms
■ Did not have symptoms
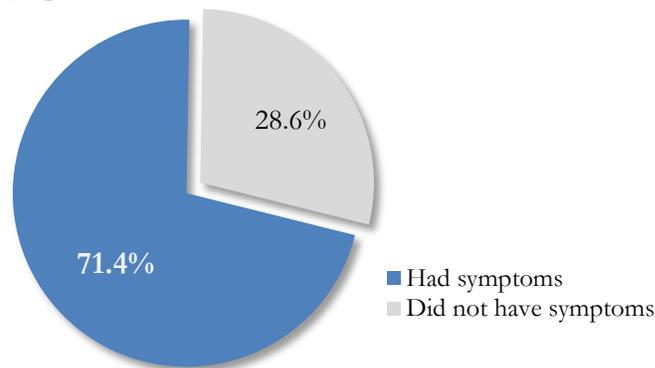
COVID-19 cases who have been case interviewed or had medical charts reviewed as at 7/06/20 only

COVID-19 HOSPITALIZATIONS, ICU ADMISSIONS AND DEATHS IN FULTON

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

Percent of all COVID19 diagnoses

- Hospitalized: 12.8%
- Admitted to ICU: 3.1%
- Intubated: 1.7%
- Died: 3.4%
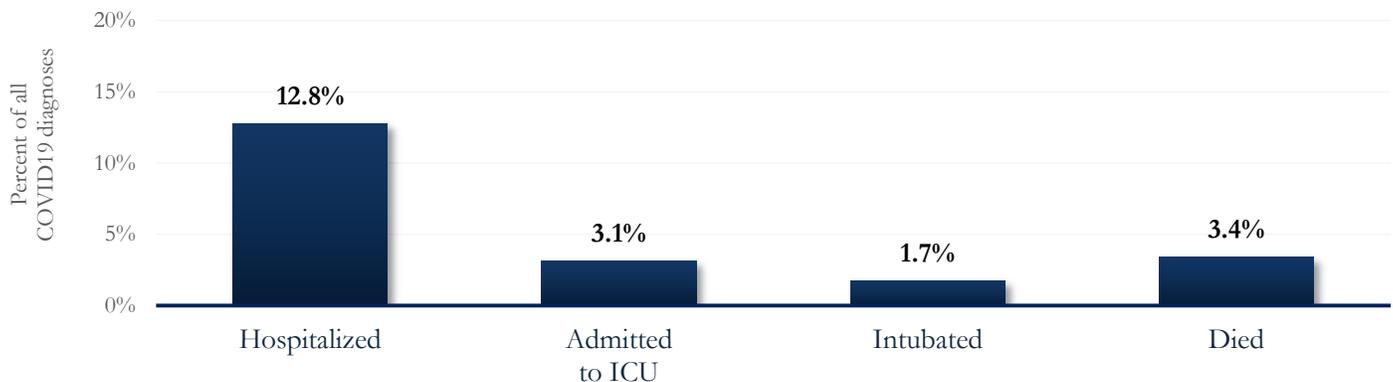
DEMOGRAPHIC DISTRIBUTIONS – COVID 19 DIAGNOSES AND DEATHS IN FULTON

		COVID-19 Diagnoses (n=8,813) Count (%)	COVID-19 Deaths (n=315) Count (%)
Gender:	Female	4617 (49.3%)	145 (45.6%)
	Male	4311 (46.0%)	173 (54.4%)
	Unknown/Missing	438 (4.7%)	
Age:	0-9	165 (1.8%)	0
	10-19	494 (5.3%)	<10
	20-29	2119 (22.6%)	<10
	30-39	1819 (19.4%)	<10
	40-49	1344 (14.3%)	<10
	50-59	1243 (13.3%)	22 (6.9%)
	60-69	955 (10.2%)	61 (19.2%)
	≥70	1200 (12.8%)	220 (69.2%)
	Unknown/Missing	27 (0.3%)	0
Race:	Asian, NH	140 (1.5%)	<10
	Black, NH	3767 (40.2%)	231 (72.6%)
	White, NH	1553 (16.6%)	68 (21.4%)
	Hispanic	886 (9.5%)	11 (3.5%)
	Other, NH	232 (2.5%)	<10
	Unknown/Missing	2788 (29.8%)	<10

Note: All data reported are preliminary and subject to change.

COVID-19 CASE TRENDS

**Fig. 8. Daily Case Counts for Atlanta Metro Districts (Averaged over 7 days)**
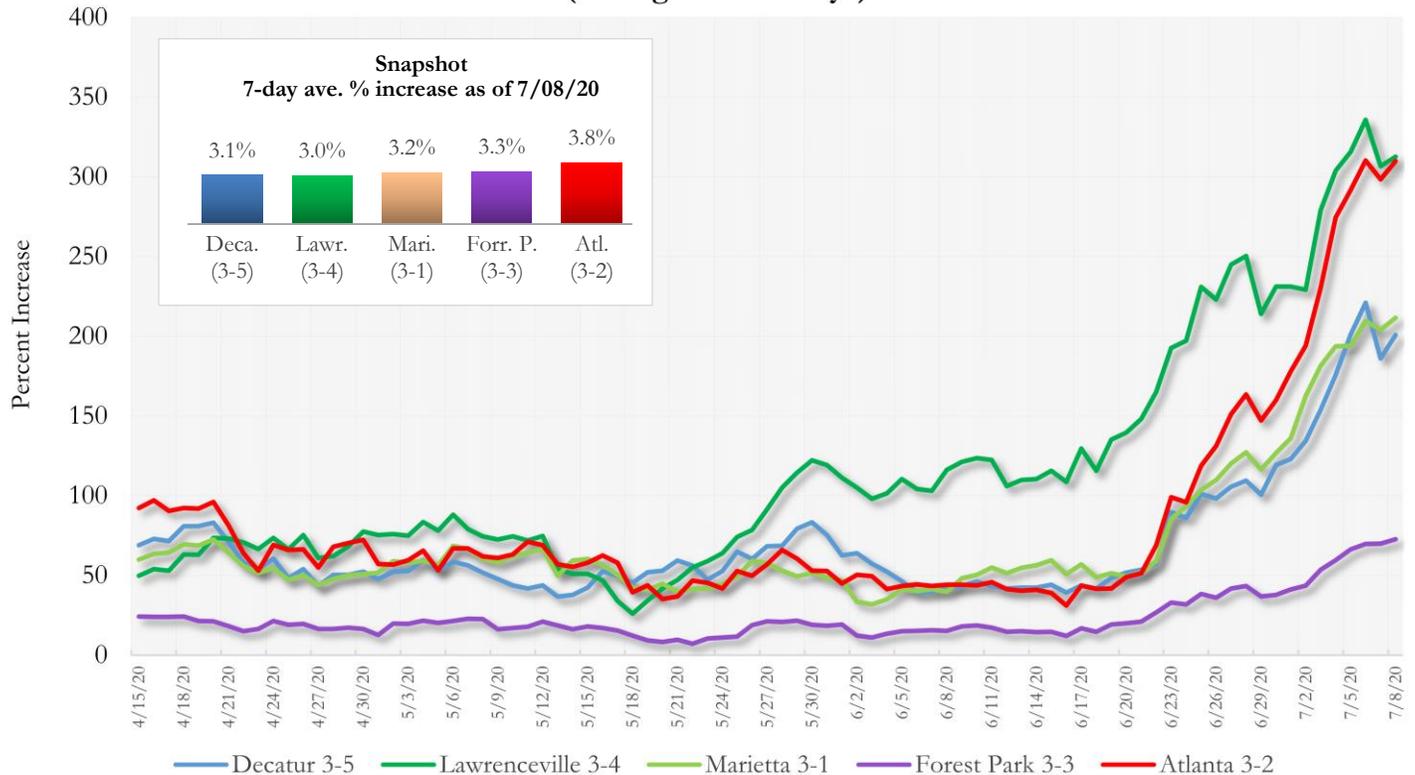
Fig. 9. Trends in Geographic distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
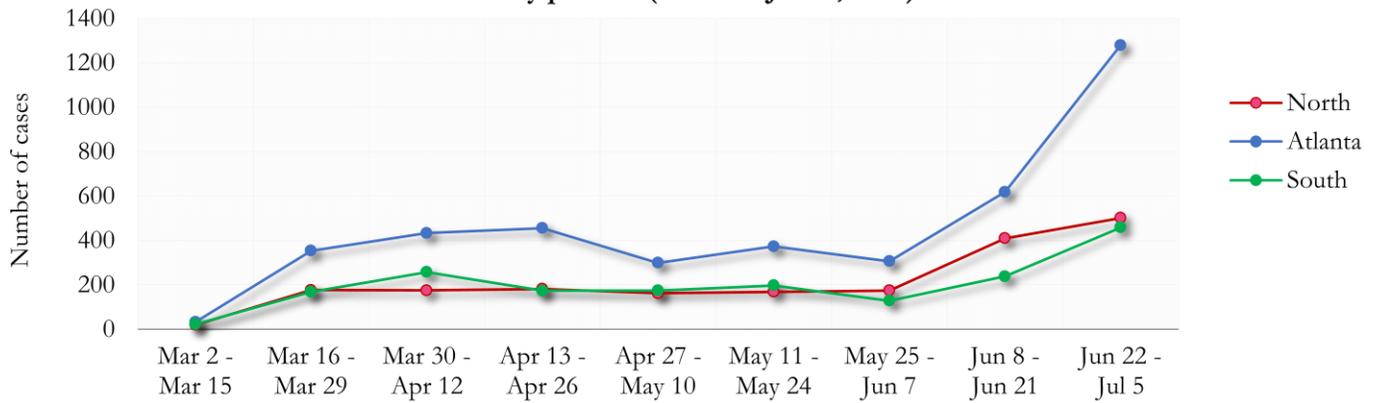
Atlanta metro has consistently accounted for the majority of newly diagnosed cases in Fulton County.

*North -Includes all Fulton County cities north of Atlanta metro (Alpharetta, Milton, Johns Creek, Roswell, Sandy Springs, Mountain Park)
*South - Includes all Fulton County cities south of Atlanta (College Park, Chattahoochee Hills, East Point, Hapeville, Palmetto, South Fulton, Fairburn, and Union City)

Fig. 10. Trends in Gender Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02- Jul 05, 2020)
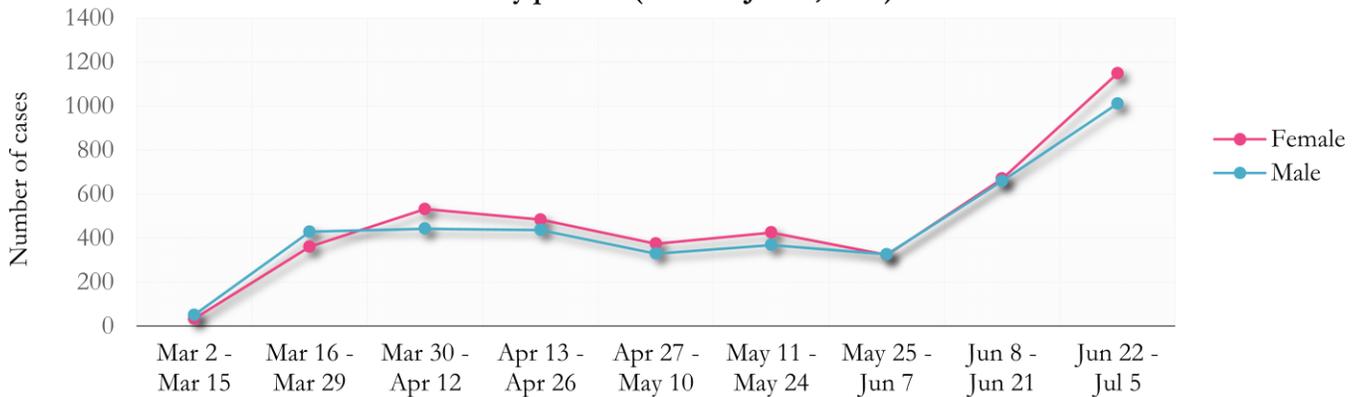
Fig. 11. Trends in Racial Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
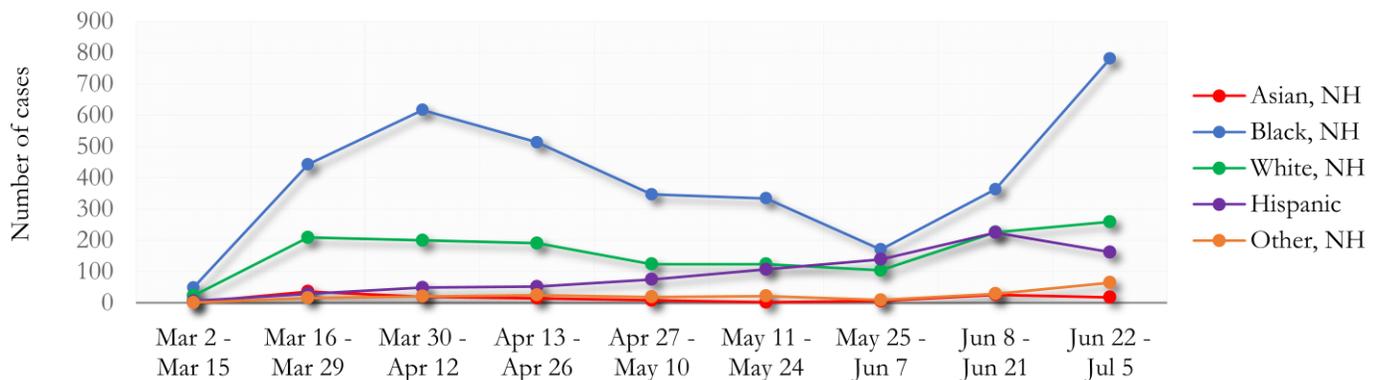
About 30% of COVID cases are missing data on patient race and ethnicity. Of cases with race and ethnicity reported, majority are Black non-Hispanic, followed by a smaller number of cases reporting White (non-Hispanic and Hispanic) race.

Fig. 12. Racial Distribution of COVID -19 Cases in Fulton County by 14-day periods (Mar 02- Jul 05, 2020)
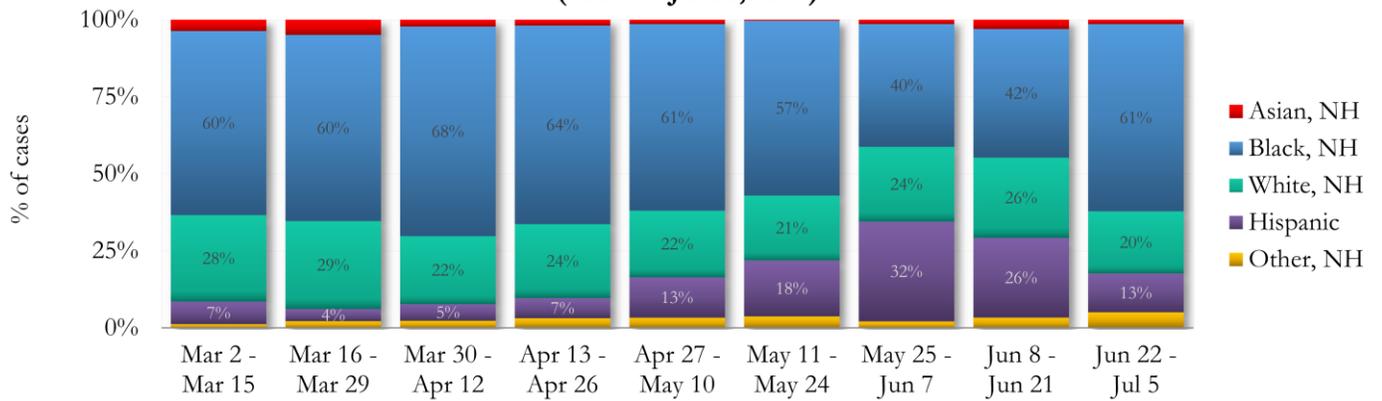
Fig. 13. Trends in Age Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
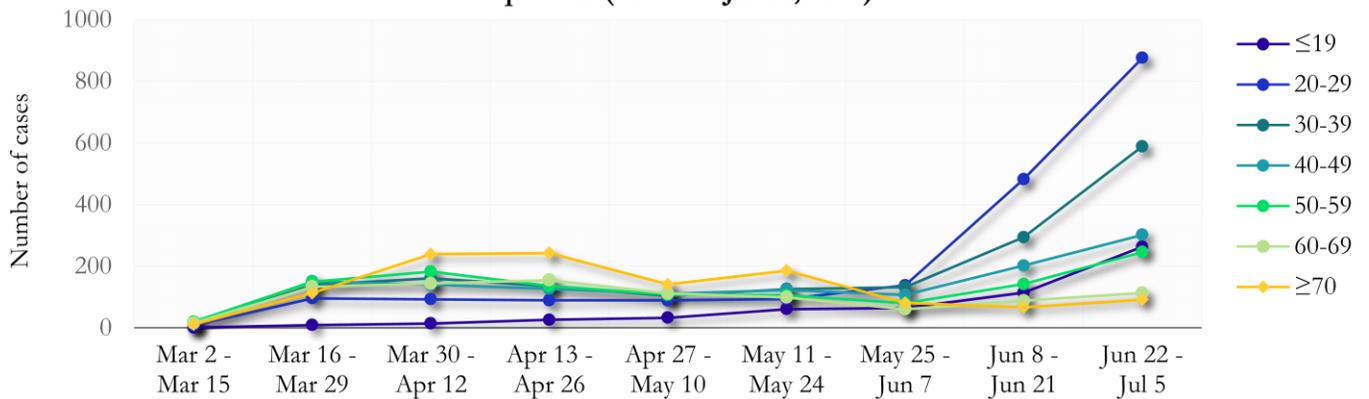
Earlier (March-May 2020) large proportions of reported cases were among persons aged 60 and older. However, starting in June, a much higher number of cases were among persons aged between 20-29 years.

Fig. 14. Age Distribution of COVID -19 Cases in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
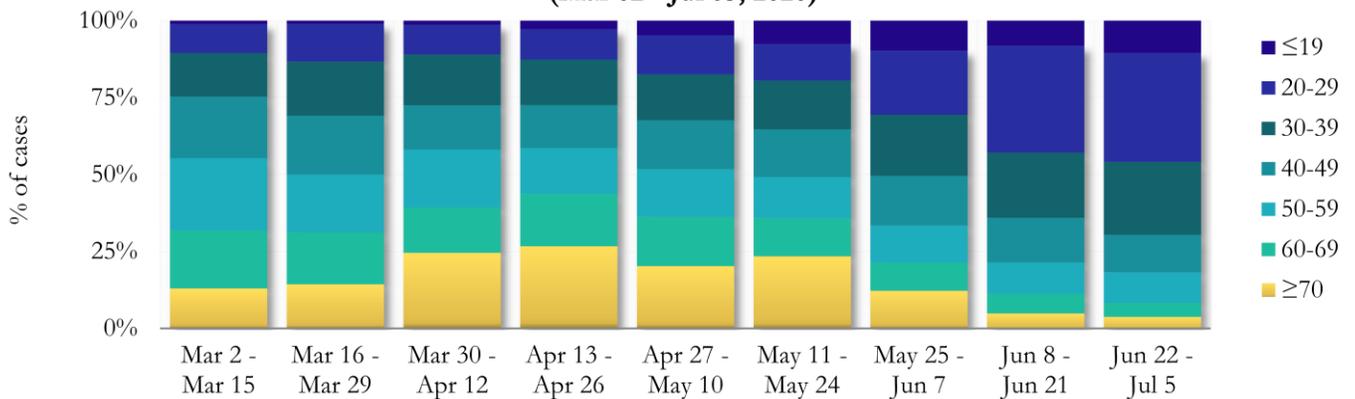
Fig. 15. New COVID-19 Cases in Fulton County Daily (Averaged over 7 days)
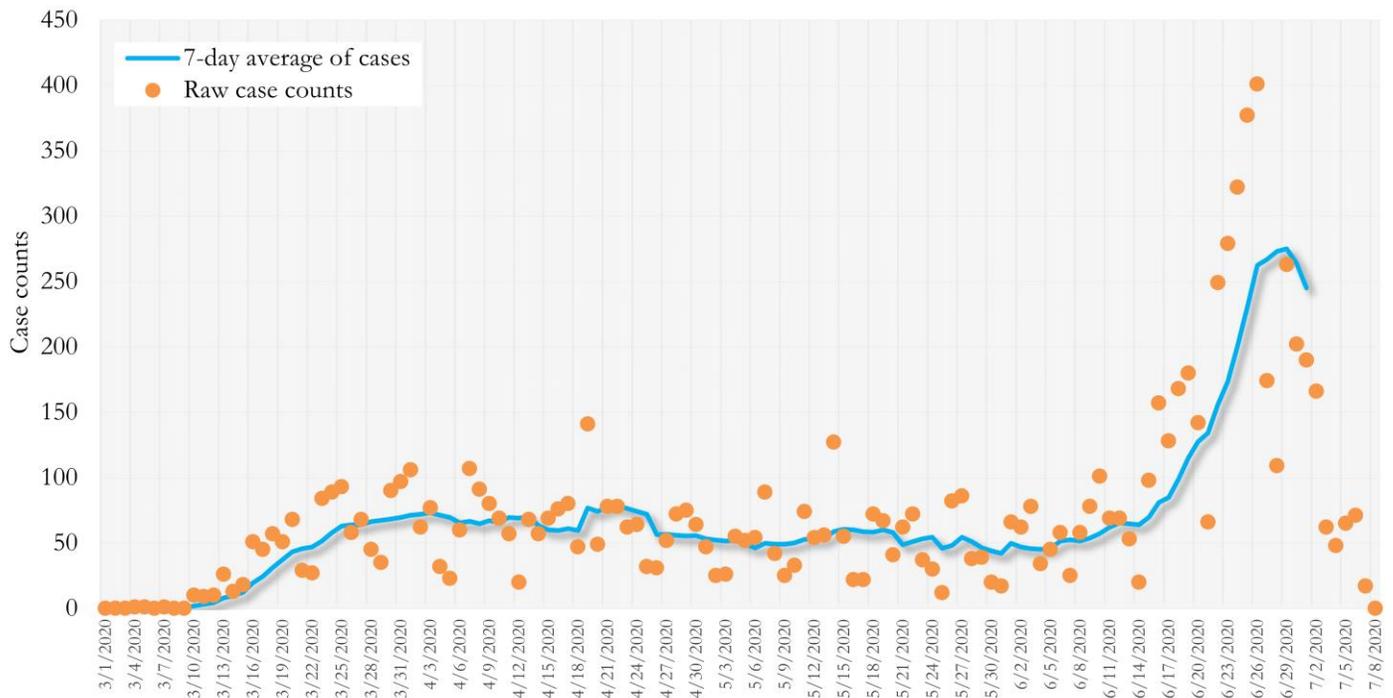
Date of collection of first positive sample used (report creation date used where sample collection date is missing).

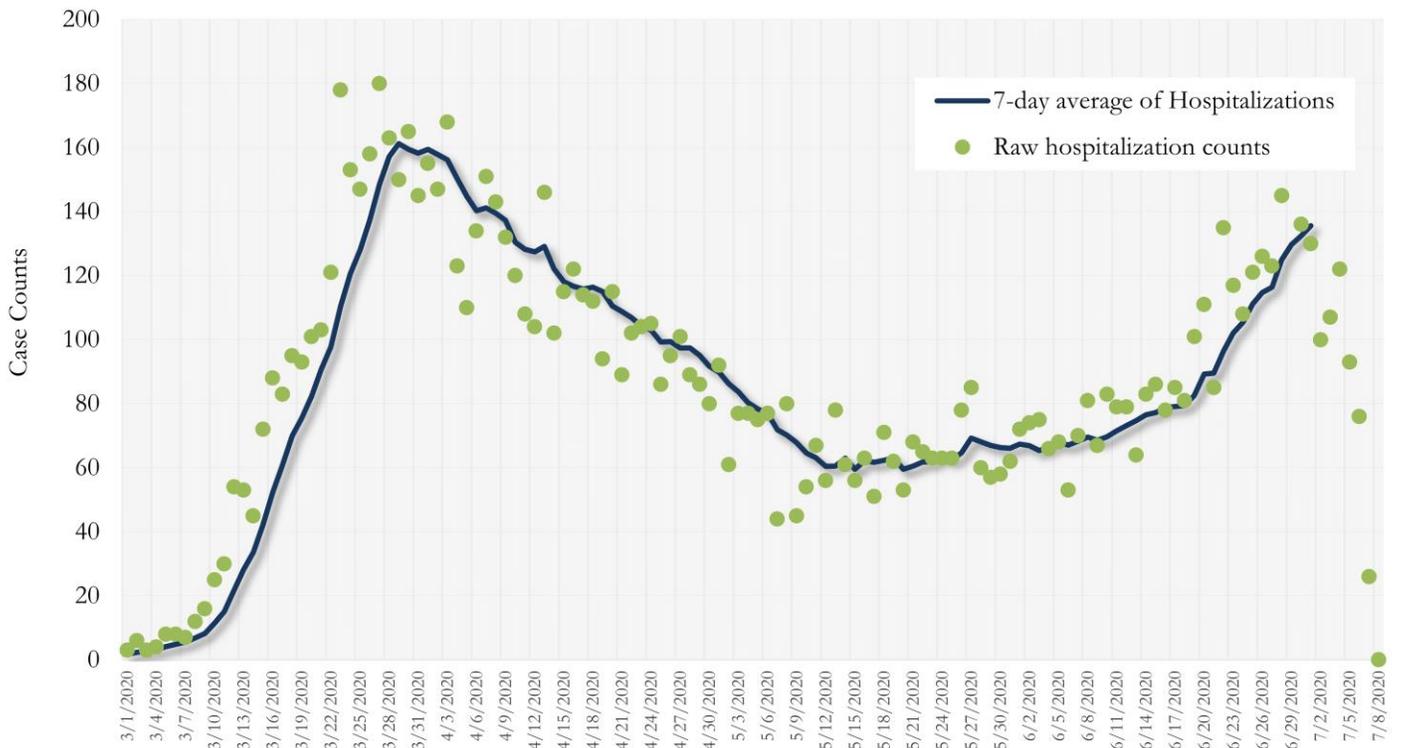## Fig. 16. New COVID-19 Cases in Georgia State Daily (Averaged over 7 days)
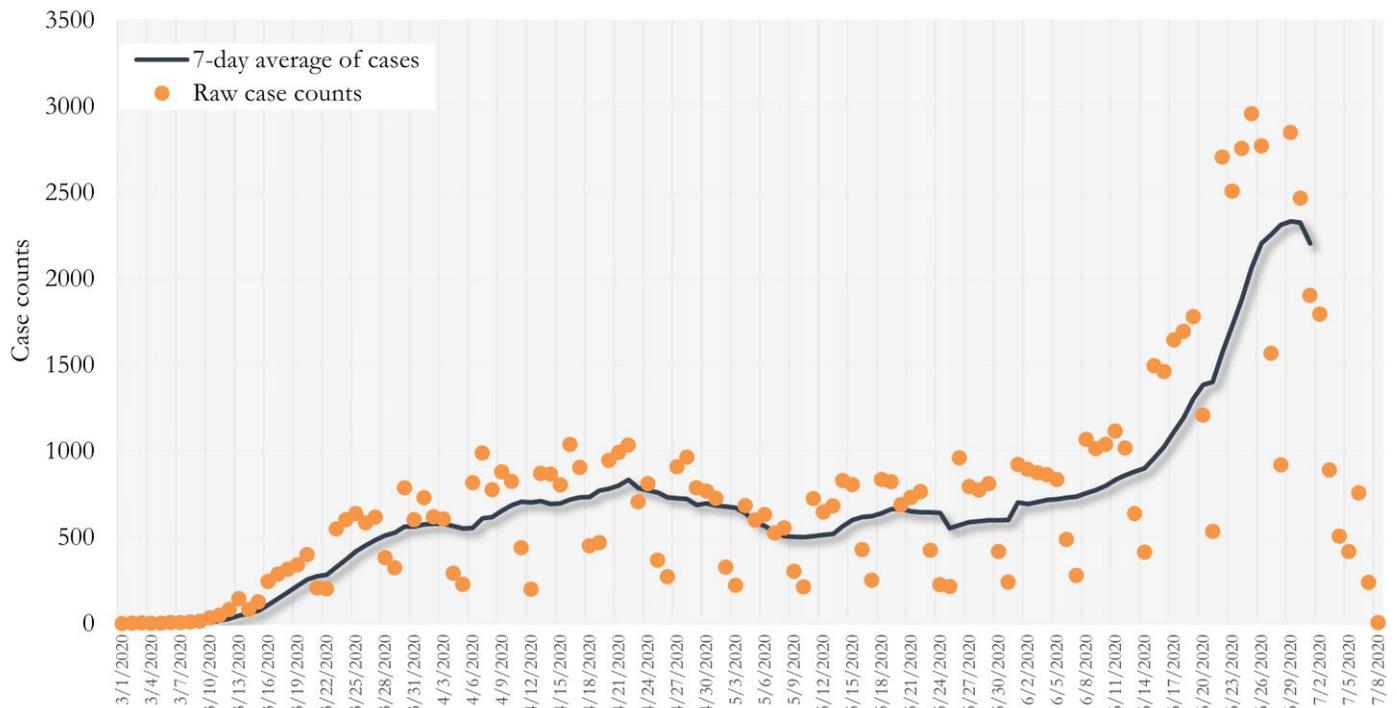
Date of collection of first positive sample used (report creation date used where sample collection date is missing).

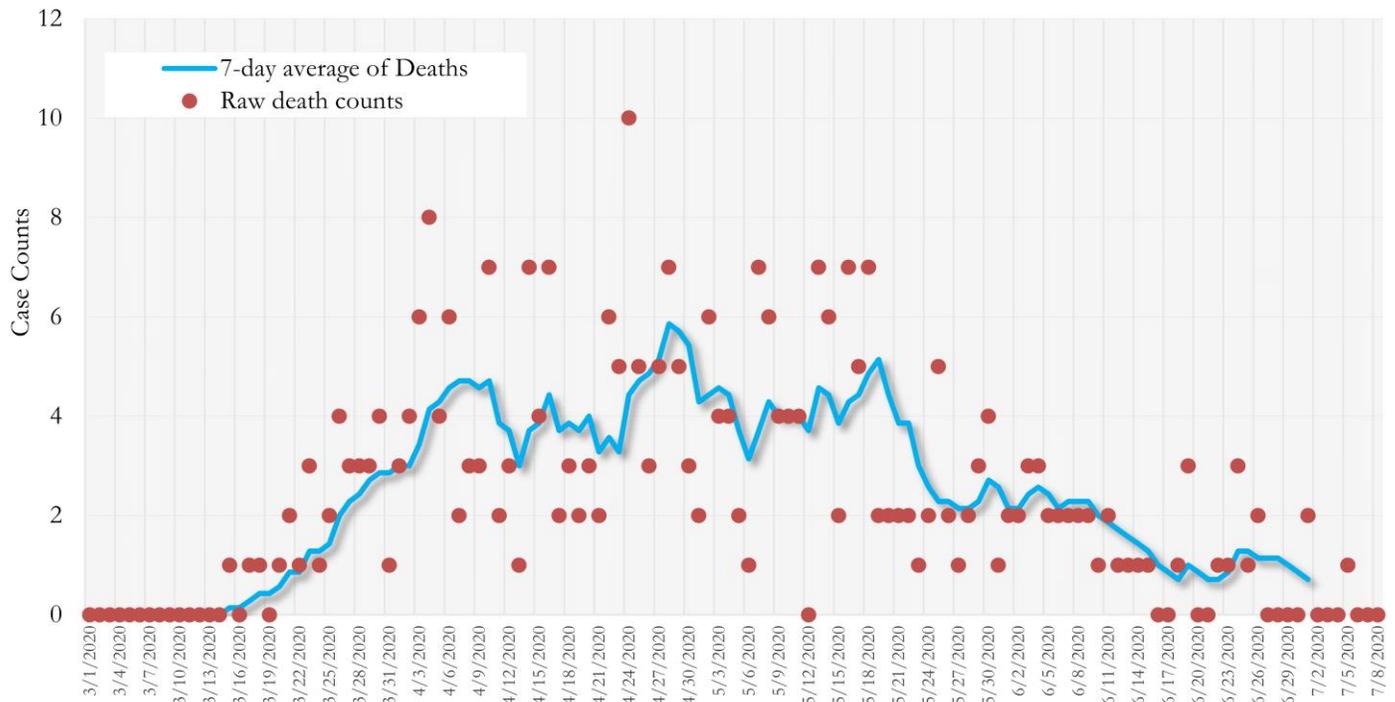**Fig. 17. COVID-19 Hospitalizations in Fulton County Daily (Averaged over 7 days)**
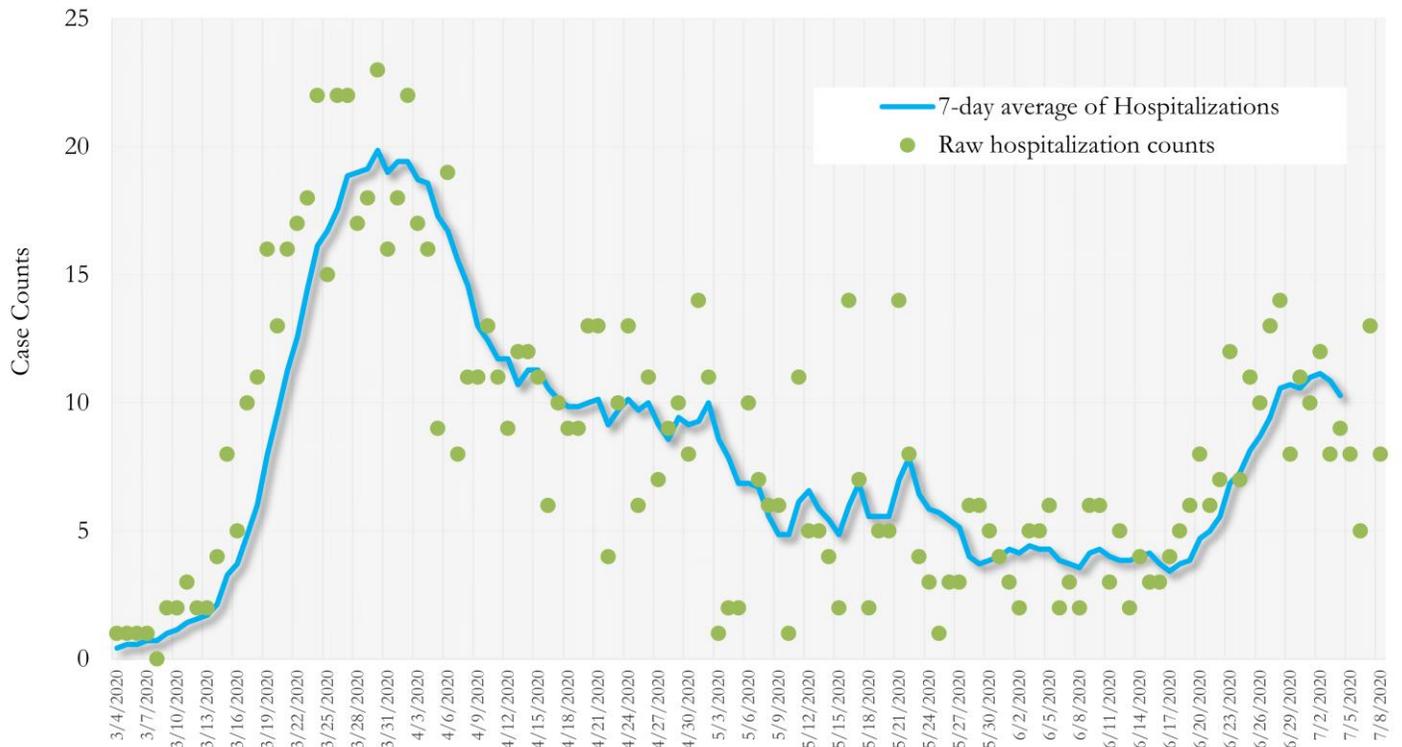
Reported date of hospital admission used.

Fig. 18. COVID-19 Hospitalizations in Georgia State Daily (Averaged over 7 days)
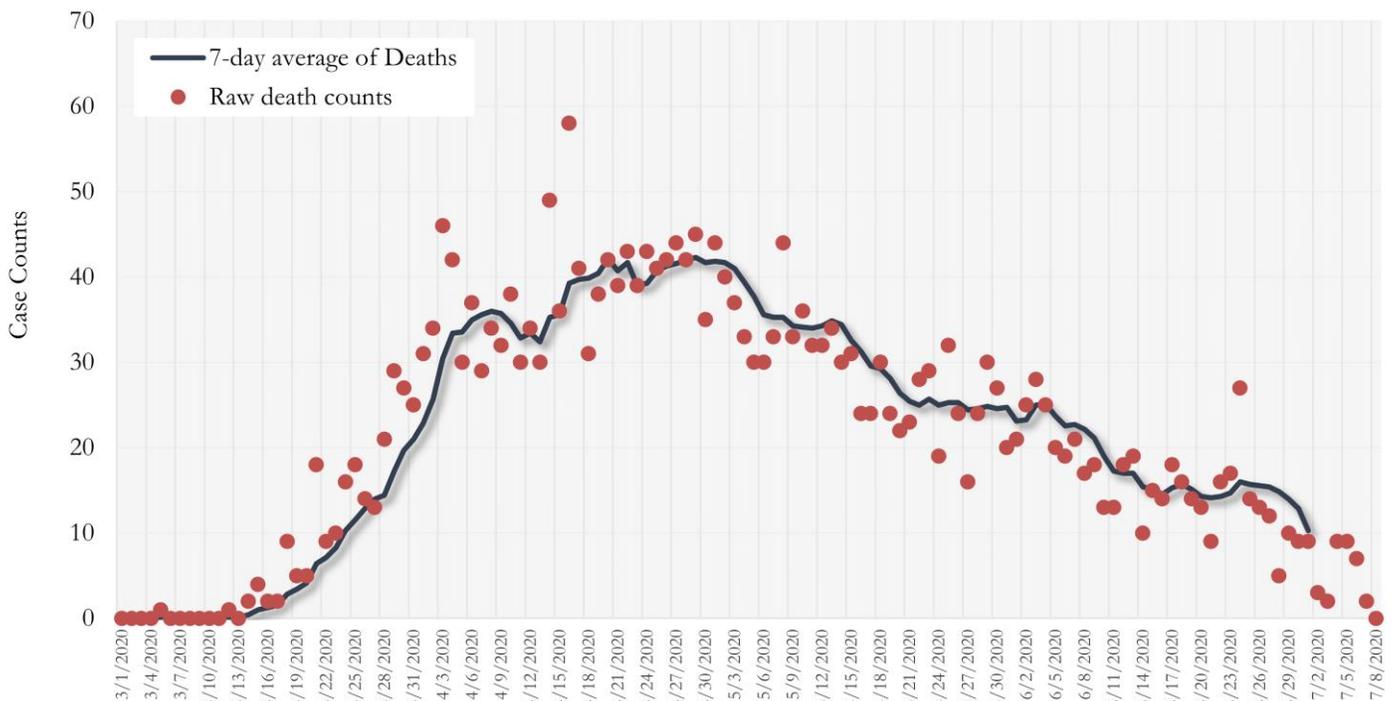

* Reported date of hospital admission used.

Fig. 19. COVID-19 Deaths in Fulton County Daily (Averaged over 7 days)

Reported date of death used.

## Fig. 20. COVID-19 Deaths in Georgia State Daily (Averaged over 7 days)

* Reported date of death used.

COVID-19 IN LONG-TERM CARE FACILITIES IN FULTON

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
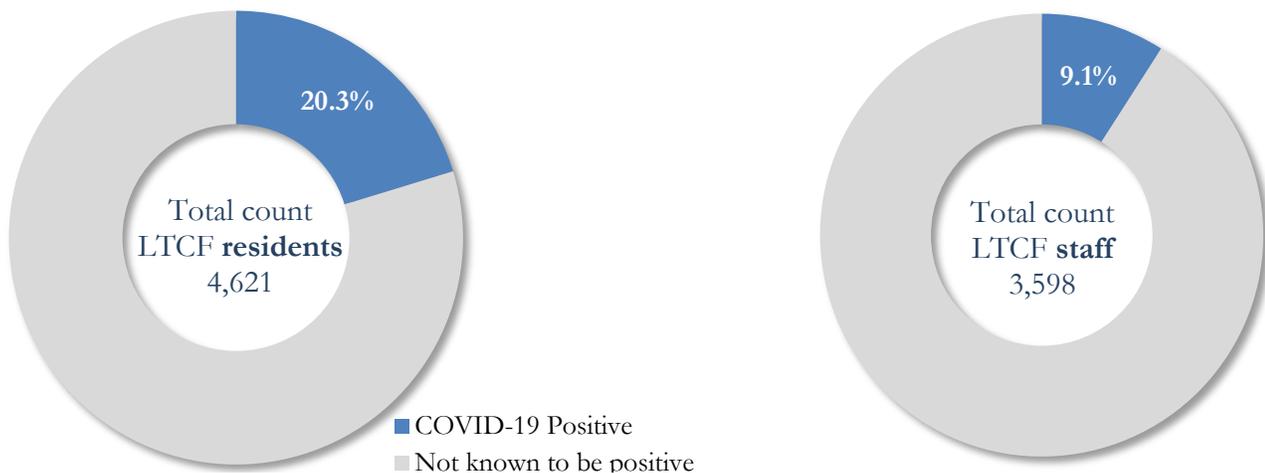
Fig. 21. COVID-19 Diagnoses and Deaths in Fulton County Associated with Long-Term Care Facilities
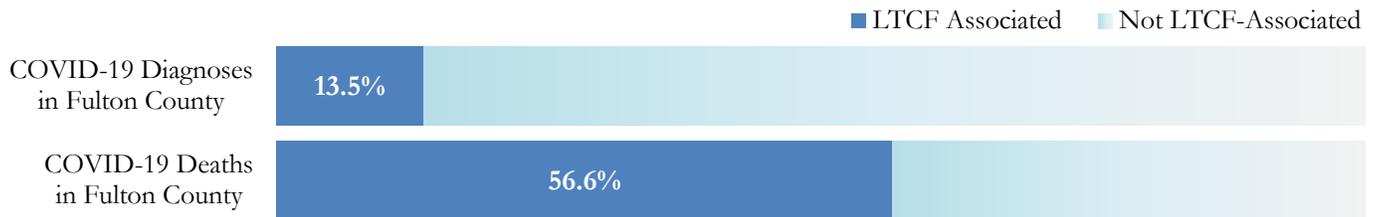
LTCF → Long-term Care Facility (Incudes residents and Staff)

COVID-19 POSITIVITY

Fig. 22. COVID-19 Positivity at 54 reporting Long-Term Care Facilities (LTCF) in Fulton County

COVID-19 Cases, Hospitalizations, and Deaths among 54 reporting Long-Term Care Facilities in Fulton County

	LTCF Residents (n=4,621)			LTCF Staff (n=3,598)		
	Cases	Hospitalizations	Deaths	Cases	Hospitalizations	Deaths
Average (count per fac.)[1]	18	5	3	6	1	<0.1
Median (count per fac.)[1]	3	2	0	2	0	0
Lowest counts	0	0	0	0	0	0
Highest counts	136	48	29	41	8	1
Total Count	**937 (20.3%)**[a]	**254 (27.1%)**[b]	**178 (19.0%)**[b]	**326 (9.1%)**[a]	**27 (8.3%)**[b]	**2 (0.6%)**[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.*