Fulton County Board of Health Epidemiology Report
## COVID-19 Diagnoses – 7/13/2020

SUMMARY

- As of July 13, 2020, Fulton County has recorded **10,736** cases of the 2019 novel coronavirus (COVID-19) and **323** deaths.
- Of 3,953 **new diagnoses** made between June 23 and July 06, the central portion of the county (Atlanta metro) accounted for 50% while the northern and southern parts accounted for 21% and 18% respectively.
- By city, **new** COVID-19 diagnoses rates range from 143.5 per 100,000 persons (Johns Creek) to 452.0 per 100,000 persons (Atlanta). [Fulton County Diagnoses Rates (per 100,000 persons): Cumulative – 1,009.1; Incident – 371.5]. See map showing incident case rate by ZIP code on Pg.4.
- Among all persons diagnosed with COVID-19 in Fulton County, 11.7% required hospitalization and 3.0% died.
- Residents and staff of long-term care facilities account for 12% of COVID-19 diagnoses and 56% 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
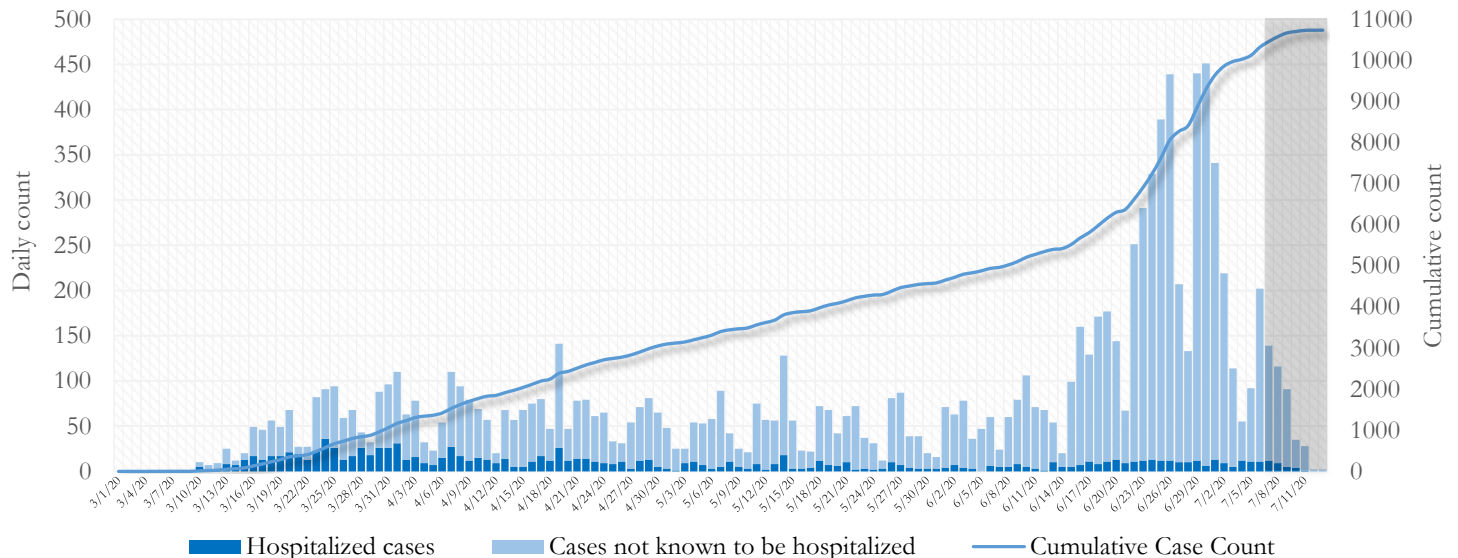
*Counts shown reflect the number of confirmed cases as of 9:00am on 7/13/20 using the date of first positive sample collection. Where date of sample collection was not available or missing, the date of report creation in GA SENDSS was used instead. **Note:** All data reported are preliminary and subject to change. Delays in data reporting may cause changes in data counts, particularly in the shaded portion.*
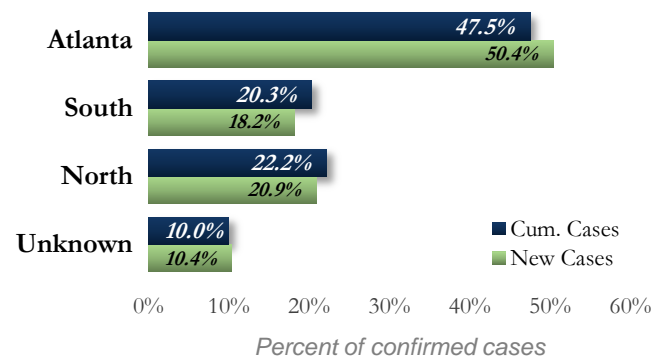
DISTRIBUTION OF COVID-19 DIAGNOSES BY REGION

New cases: 50% 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	47.5%	50.4%
North[1]	22.2%	20.9%
South[2]	20.3%	18.2%
Unincorporated/Unknown	10.0%	10.4%

[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 6/20/20 – 7/03/20).
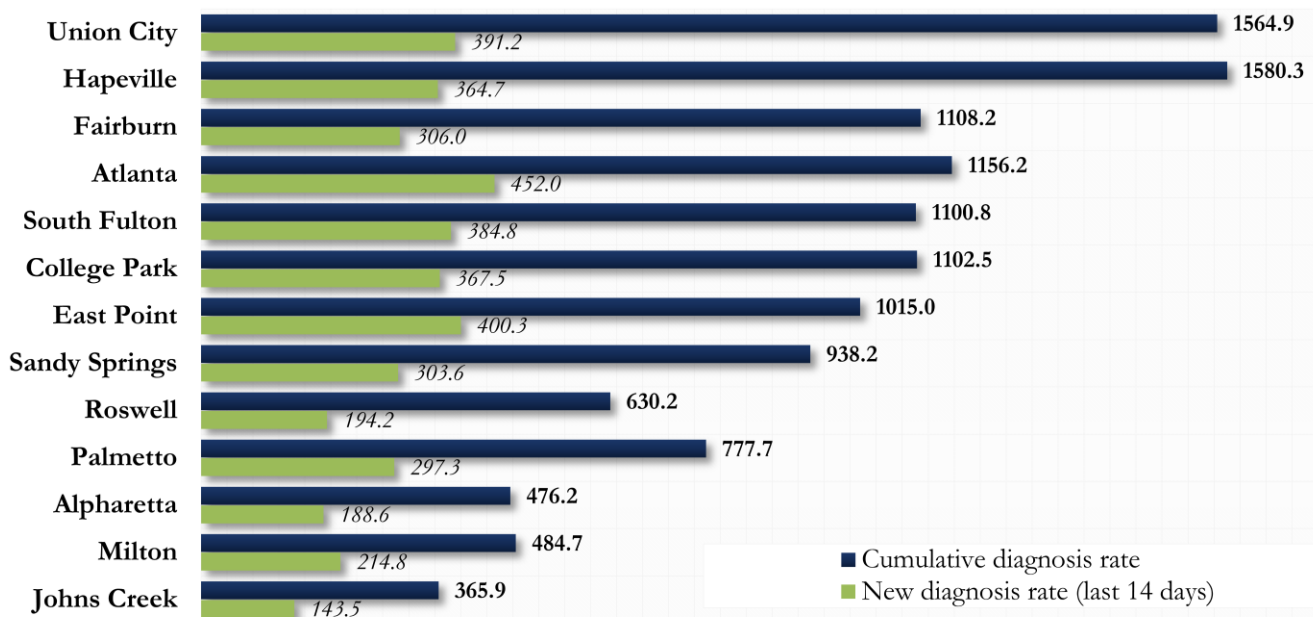
Fig. 2. Distribution of COVID 19 cases by Region

Region	Cum. Cases	New Cases
Atlanta	47.5%	50.4%
South	20.3%	18.2%
North	22.2%	20.9%
Unknown	10.0%	10.4%

Percent of confirmed cases

COVID-19 CASE COUNTS AND RATES BY CITY

|	Prior (7/10/20)	Current Total (7/13/20)			New Cases *(Period: 6/08/20 – 7/06/20)*[1]			
	Count	Count	%	Cum. Rate[2]	Ist 14 d. *(6/08–6/22)*	Last 14 d. *(6/23–7/06)*	% change[3]	Rate[4] *(Last 14 d).*
Atlanta	4750	5101	47.5%	1156.2	632	1994	↑ 215.5%	452.0
South Fulton	978	1047	9.8%	1100.8	117	366	↑ 212.8%	384.8
Sandy Springs	938	989	9.2%	938.2	169	320	↑ 89.3%	303.6
Roswell	560	594	5.5%	630.2	107	183	↑ 71.0%	194.2
East Point	332	355	3.3%	1015.0	42	140	↑ 233.3%	400.3
Johns Creek	291	306	2.9%	365.9	54	120	↑ 122.2%	143.5
Union City	311	328	3.1%	1564.9	35	82	↑ 134.3%	391.2
Alpharetta	285	308	2.9%	476.2	57	122	↑ 114.0%	188.6
Milton	171	185	1.7%	484.7	24	82	↑ 241.7%	214.8
Fairburn	158	163	1.5%	1108.2	15	45	↑ 200.0%	306.0
College Park	144	153	1.4%	1102.5	<10	51	↑ 466.7%	367.5
Palmetto	31	34	0.3%	777.7	<10	13	↑ 1200.0%	297.3
Hapeville	100	104	1.0%	1580.3	27	24	↓ 11.1%	364.7
Mountain Park	0	0	0.0%	-	0	0	-	0.0
Unknown	972	1069	10.0%	-	110	410	-	-

[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 (last 14 days)
Union City	1564.9	391.2
Hapeville	1580.3	364.7
Fairburn	1108.2	306.0
Atlanta	1156.2	452.0
South Fulton	1100.8	384.8
College Park	1102.5	367.5
East Point	1015.0	400.3
Sandy Springs	938.2	303.6
Roswell	630.2	194.2
Palmetto	777.7	297.3
Alpharetta	476.2	188.6
Milton	484.7	214.8
Johns Creek	365.9	143.5

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 23 – Jul 06, 2020) in Fulton County
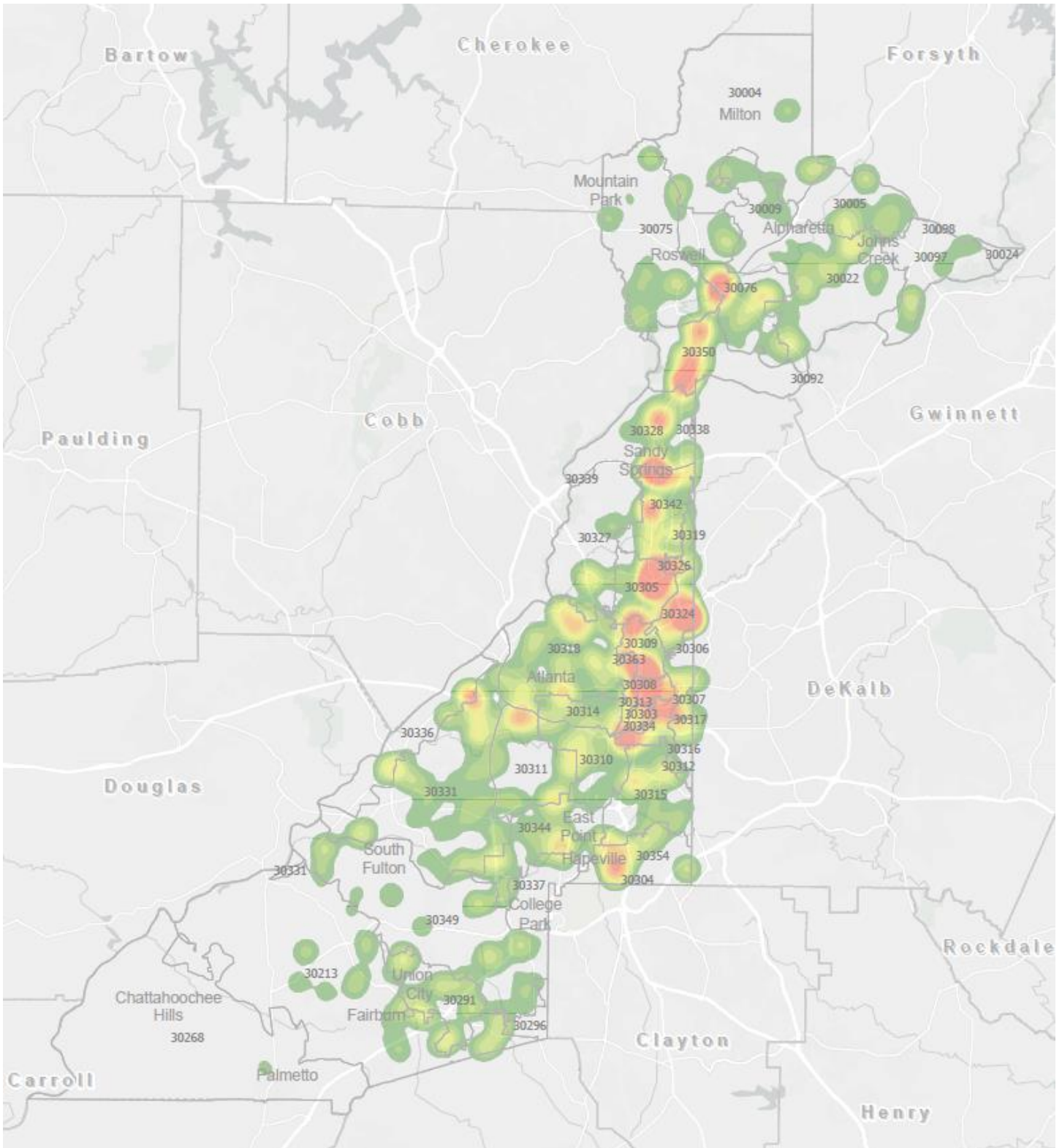
*NB. **New COVID-19 cases:** Cases diagnosed in most recent 14 days (based on reported dates of positive sample collection). To allow for lag in reporting results of positive cases from samples collected in the immediate past 7 days, data used for incident diagnoses analyses are moved back by one week. 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 23 – Jul 06, 2020)
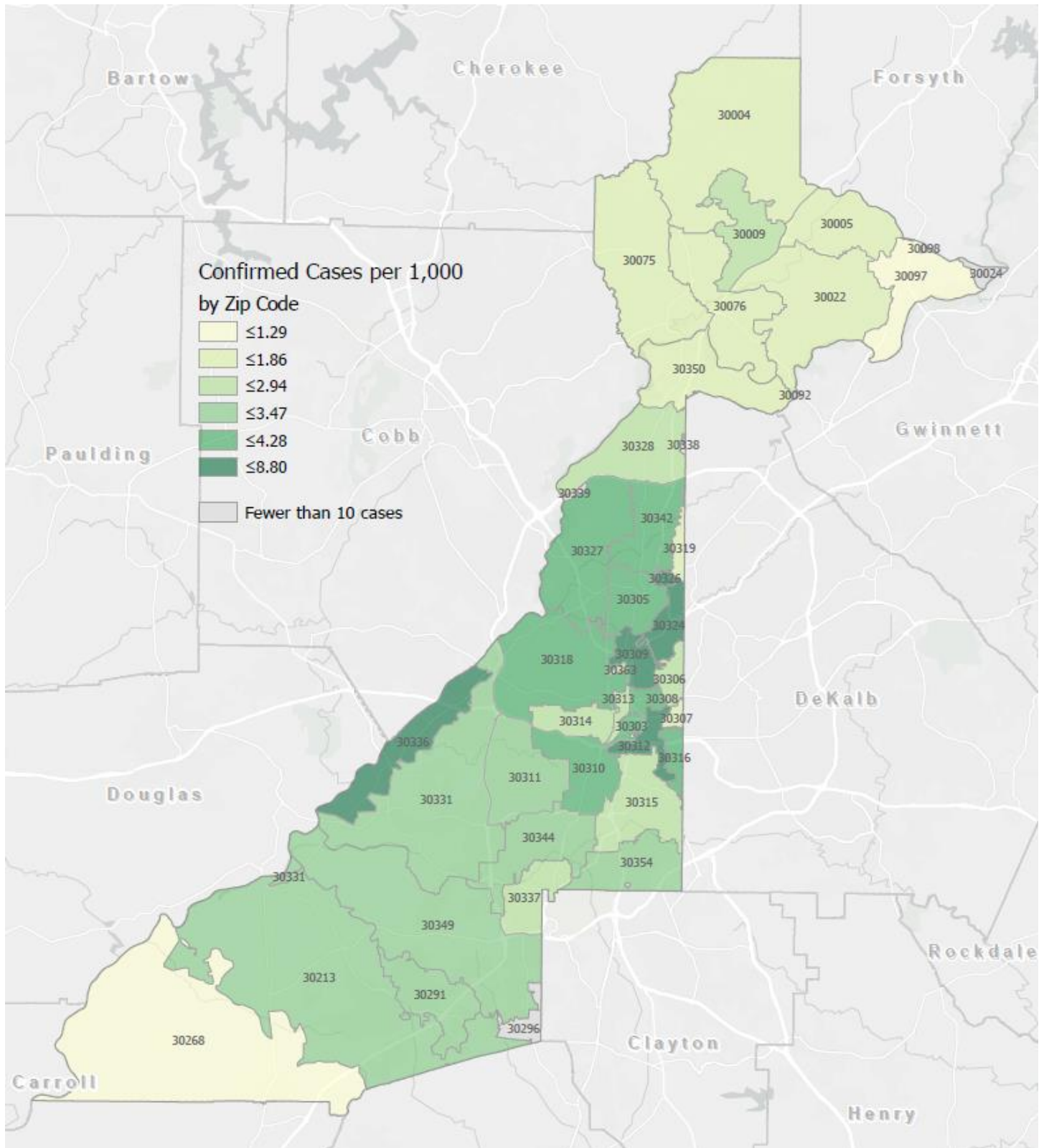
Rates shown are per 1,000 populations.
New COVID-19 cases: *Cases diagnosed in most recent 14 days (based on reported dates of positive sample collection). To allow for lag in reporting results of positive cases from samples collected in the immediate past7 days, data used for incident diagnoses analyses 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 Jun 15th and Jun 28nd 2020.*

COVID-19 CASE COUNTS BY ZIP CODE

	Prior (7/10/20)	Current Total (7/13/20)		New Cases *(Period: 6/08/20 – 7/06/20)*[1]		
	Count	Count	%	1st 14 days *(Jun 08 – Jun 22)*	Last 14 d. *(Jun 23 – Jul 06)*	% change[2]
All Fulton	10021	10736	100.0%	1405	3953	↑ 181.4%
30331	681	717	6.7%	79	236	↑ 198.7%
30318	644	709	6.6%	82	266	↑ 224.4%
30349	595	633	5.9%	54	269	↑ 398.1%
30213	379	402	3.7%	49	122	↑ 149.0%
30315	291	310	2.9%	34	108	↑ 217.6%
30344	297	322	3.0%	40	118	↑ 195.0%
30311	298	313	2.9%	52	112	↑ 115.4%
30342	465	493	4.6%	66	168	↑ 154.5%
30314	291	304	2.8%	18	74	↑ 311.1%
30310	324	345	3.2%	32	129	↑ 303.1%
30308	178	201	1.9%	24	91	↑ 279.2%
30022	304	318	3.0%	53	133	↑ 150.9%
30327	222	237	2.2%	28	104	↑ 271.4%
30004	243	263	2.4%	37	112	↑ 202.7%
30309	329	365	3.4%	50	172	↑ 244.0%
30076	235	250	2.3%	56	88	↑ 57.1%
30291	336	353	3.3%	46	79	↑ 71.7%
30350	227	231	2.2%	60	50	↓ 16.7%
30075	292	314	2.9%	52	92	↑ 76.9%
30328	263	284	2.6%	52	116	↑ 123.1%
30316	131	144	1.3%	11	73	↑ 563.6%
30312	382	404	3.8%	42	127	↑ 202.4%
30005	140	154	1.4%	30	67	↑ 123.3%
30305	327	349	3.3%	60	130	↑ 116.7%
30306	106	121	1.1%	<10	60	↑ 900.0%
30324	388	418	3.9%	65	190	↑ 192.3%
30337	132	143	1.3%	<10	41	↑ 355.6%
30009	108	120	1.1%	17	42	↑ 147.1%
30313	69	74	0.7%	13	20	↑ 53.8%
30326	80	91	0.8%	17	44	↑ 158.8%
30097	71	71	0.7%	13	16	↑ 23.1%
30354	172	182	1.7%	39	62	↑ 59.0%
30303	78	83	0.8%	<10	36	↑ 350.0%
30339	88	108	1.0%	<10	77	↑ 1825.0%
30268	41	45	0.4%	<10	16	↑ 700.0%
30307	47	54	0.5%	<10	26	↑ 188.9%
30319	64	70	0.7%	10	27	↑ 170.0%
30336	43	46	0.4%	11	13	↑ 18.2%
30296	17	17	0.2%	<10	<10	-
30363	25	27	0.3%	<10	16	↑ 300.0%
30301	<10	<10	<0.1%	<10	<10	-
30345	22	24	0.2%	<10	11	↑ 266.7%
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%	<10	<10	-

30340	22	22	0.2%	11	<10	↓ 81.8%
30341	23	23	0.2%	<10	<10	-
30358	<10	<10	<0.1%	0	0	-
30374	26	26	0.2%	<10	<10	-
30606	<10	<10	<0.1%	0	0	-
31150	<10	<10	<0.1%	0	0	-
30024	<10	<10	<0.1%	<10	0	↓ 100.0%
30098	-	-	-	0	0	-
30334	<10	<10	<0.1%	0	<10	-
30338	42	46	0.4%	<10	36	↑ 1700.0%
Unknown	449	472	4.4%	45	159	-

[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 <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. 6. Proportion Reporting Symptoms in Fulton County

28.3%

71.7%

■ Had symptoms
■ Did not have symptoms
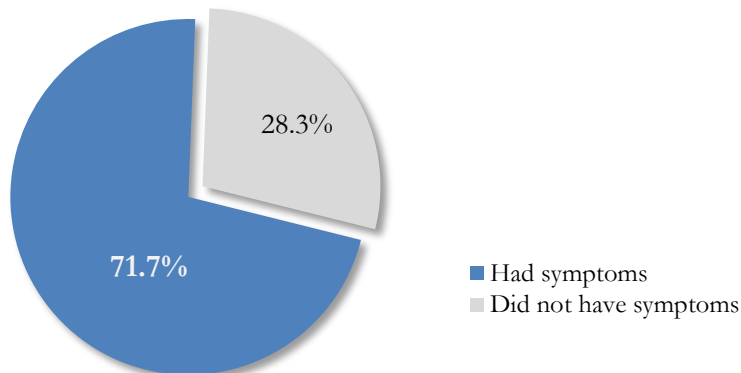
COVID-19 cases who have been case interviewed or had medical charts reviewed as at 7/13/20 only

COVID-19 HOSPITALIZATIONS, ICU ADMISSIONS AND DEATHS IN FULTON

Fig. 7. Hospitalizations, ICU Admissions and Deaths among COVID-19 Diagnoses in Fulton County
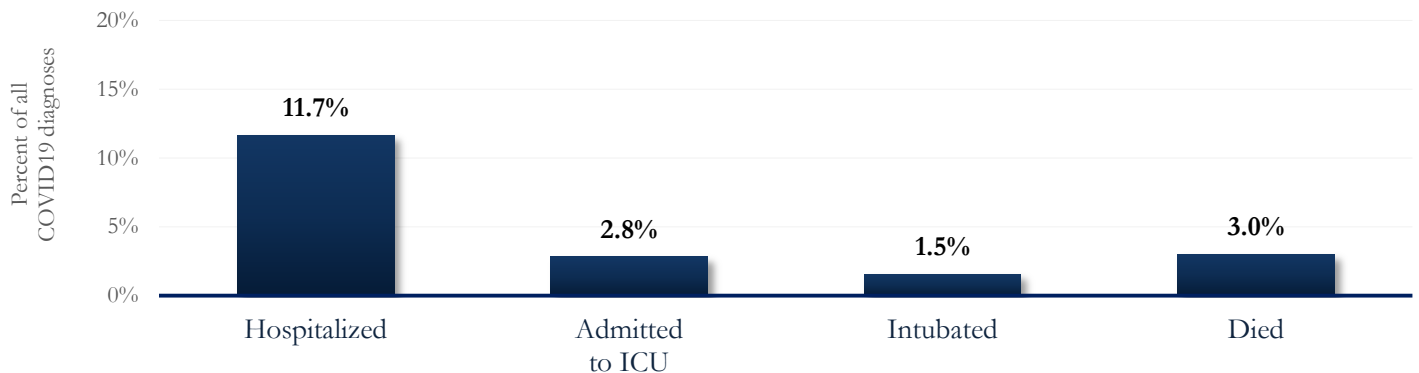
DEMOGRAPHIC DISTRIBUTIONS – COVID 19 DIAGNOSES AND DEATHS IN FULTON

		COVID-19 Diagnoses (n=10,736) Count (%)	COVID-19 Deaths (n=323) Count (%)
Gender:	Female	5240 (48.8%)	149 (46.1%)
	Male	4891 (45.6%)	174 (53.9%)
	Unknown/Missing	605 (5.6%)	
Age:	0-9	193 (1.8%)	0
	10-19	614 (5.7%)	<10
	20-29	2551 (23.8%)	<10
	30-39	2136 (19.9%)	<10
	40-49	1551 (14.4%)	<10
	50-59	1386 (12.9%)	22 (6.8%)
	60-69	1029 (9.6%)	60 (18.6%)
	≥70	1248 (11.6%)	225 (69.7%)
	Unknown/Missing	28 (0.3%)	0
Race:	Asian, NH	152 (1.4%)	<10
	Black, NH	4075 (38.0%)	235 (72.8%)
	White, NH	1724 (16.1%)	69 (21.4%)
	Hispanic	963 (9.0%)	12 (3.7%)
	Other, NH	301 (2.8%)	<10
	Unknown/Missing	3521 (32.8%)	<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)

Snapshot
7-day ave. % increase as of 7/13/20

2.6%	2.5%	3.0%	2.6%	2.9%
Deca. (3-5)	Lawr. (3-4)	Mari. (3-1)	Forr. P. (3-3)	Atl. (3-2)

Decatur 3-5 — Lawrenceville 3-4 — Marietta 3-1 — Forest Park 3-3 — Atlanta 3-2
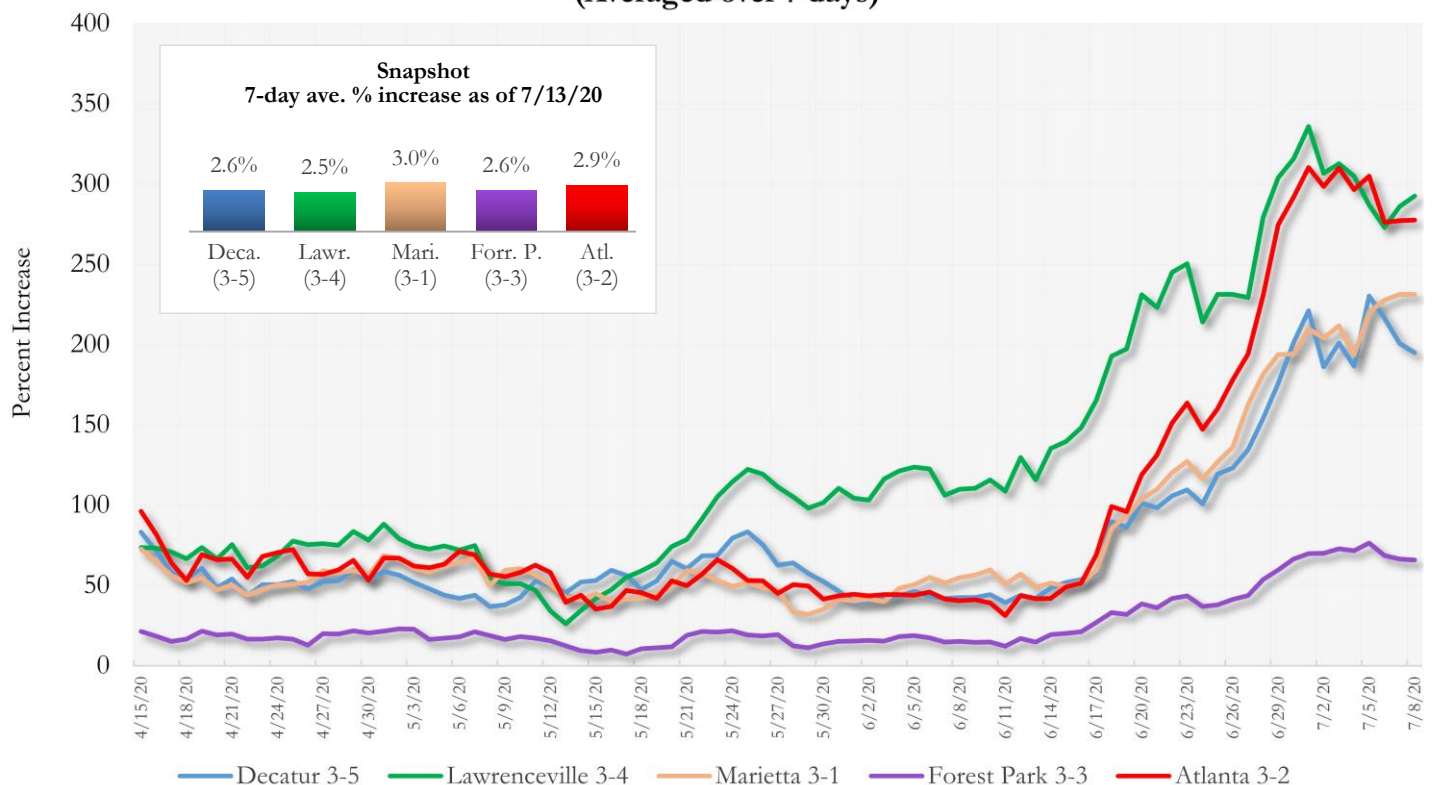
Fig. 9. Trends in Geographic distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
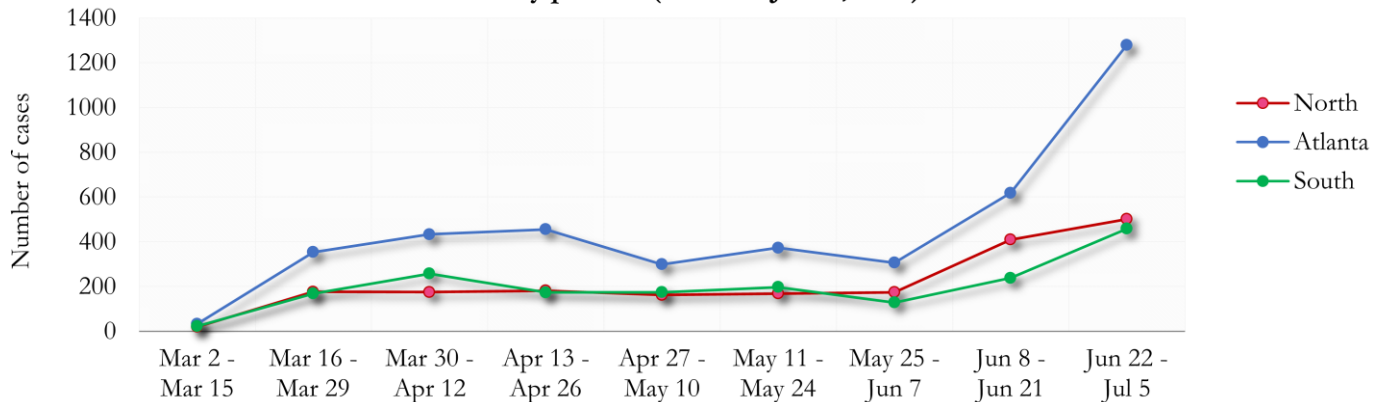
Atlanta metro has consistently accounted for the majority of newly diagnosed cases in Fulton County.

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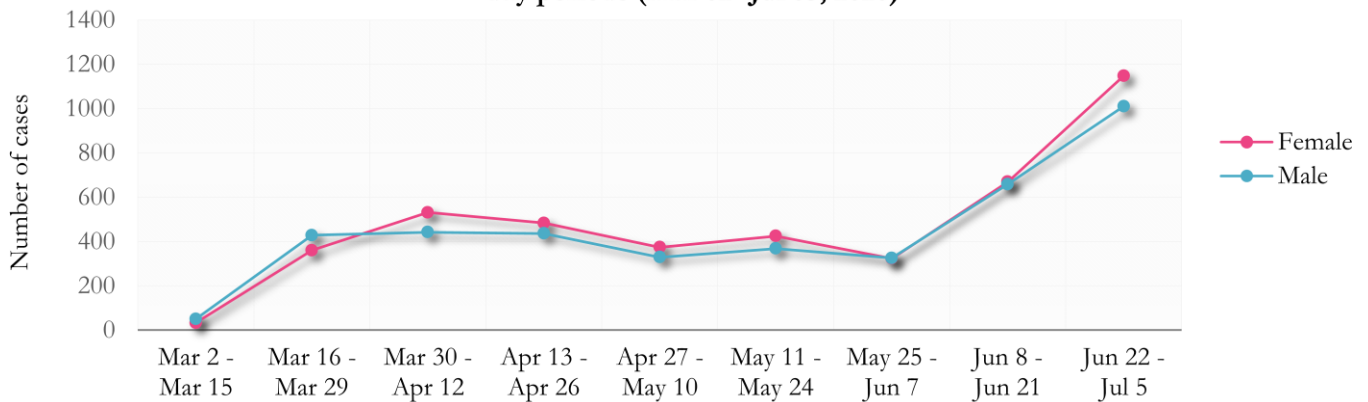
Fig. 11. Trends in Racial Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
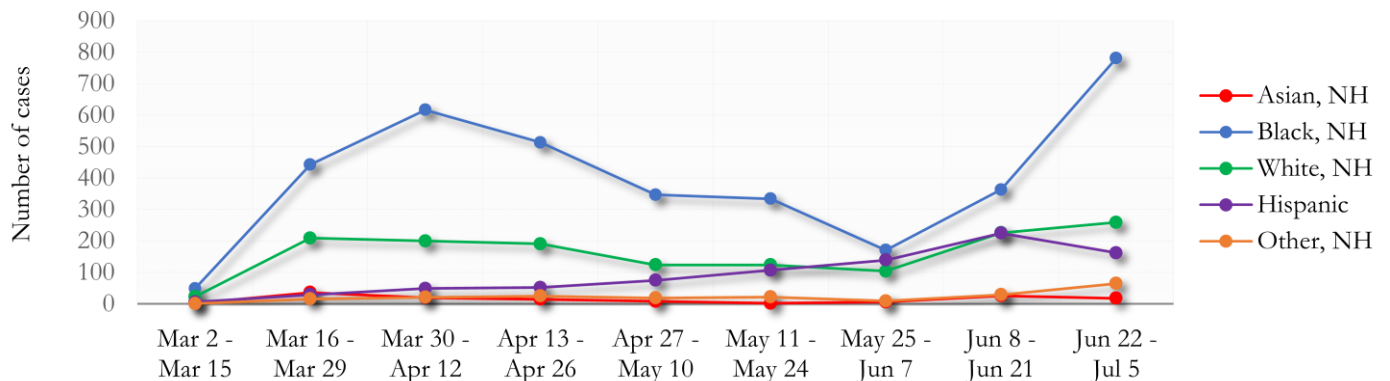
About 30% of COVID cases are missing data on patient race and ethnicity. Of cases with race and ethnicity reported, majority are Black non-Hispanic, followed by a smaller number of cases reporting White (non-Hispanic and Hispanic) race.

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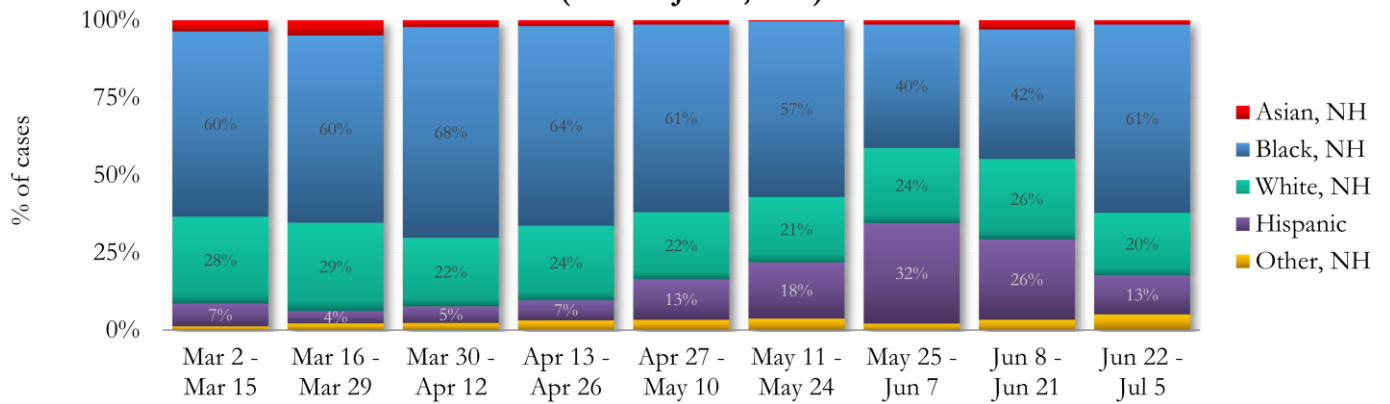
Fig. 13. Trends in Age Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
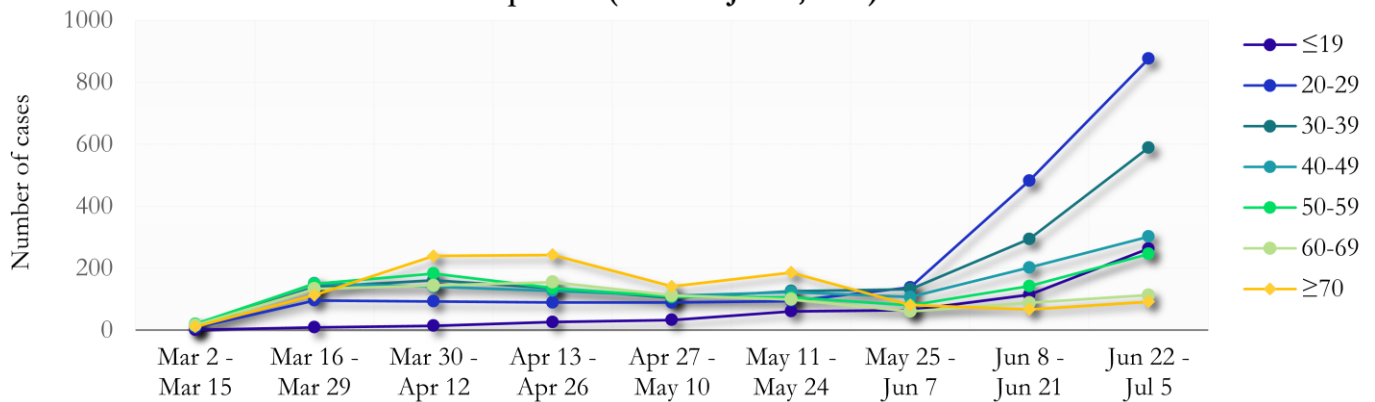
Earlier (March-May 2020) large proportions of reported cases were among persons aged 60 and older. However, starting in June, a much higher number of cases were among persons aged between 20-29 years.

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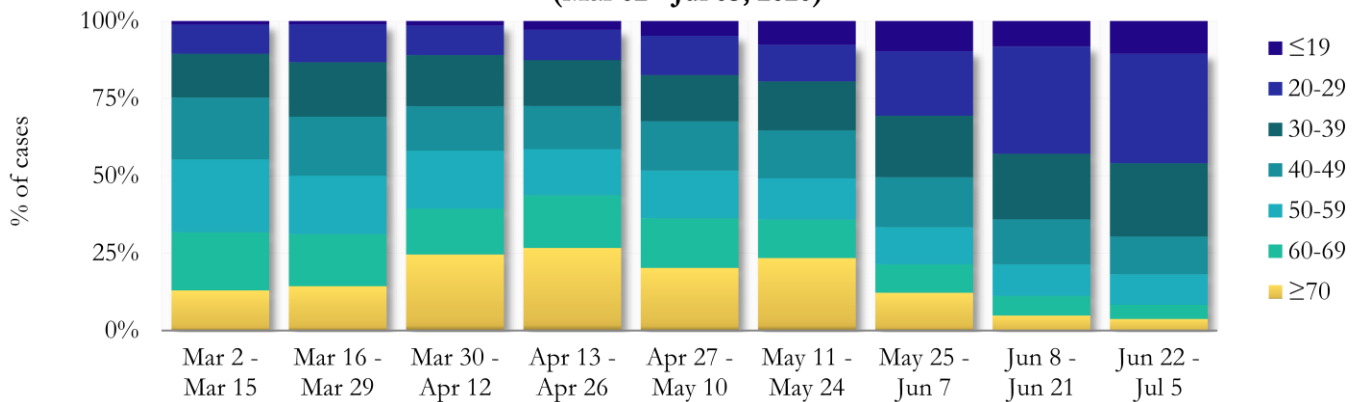
Fig. 15. New COVID-19 Cases in Fulton County Daily (Averaged over 7 days)
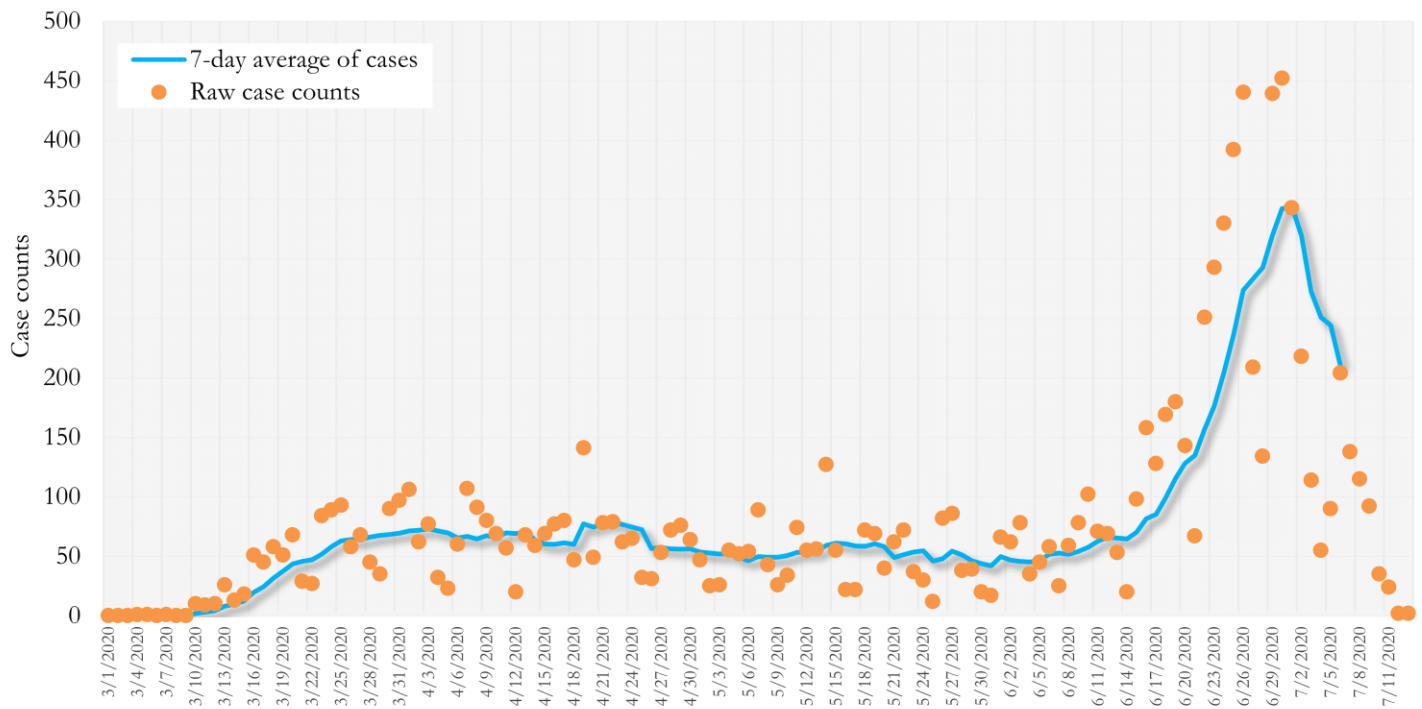
Date of collection of first positive sample used (report creation date used where sample collection date is missing).

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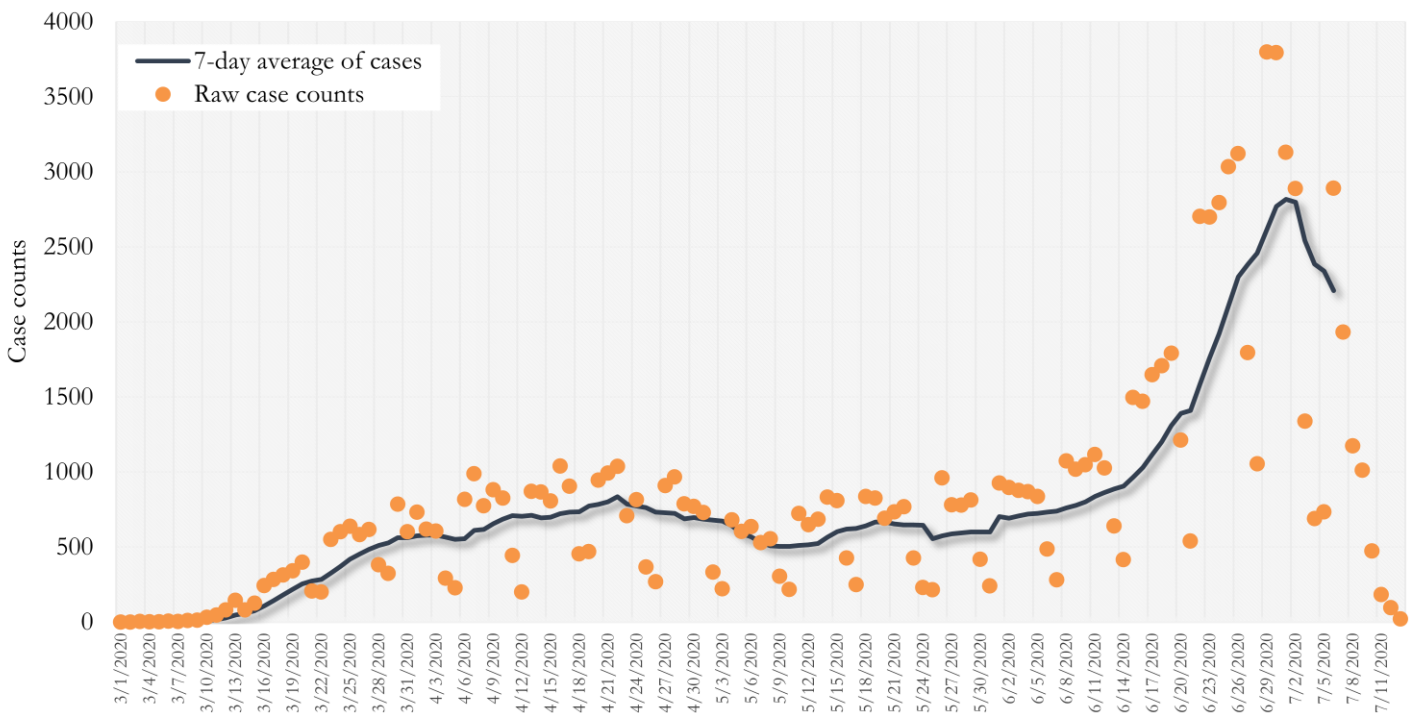
Date of collection of first positive sample used (report creation date used where sample collection date is missing).

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)
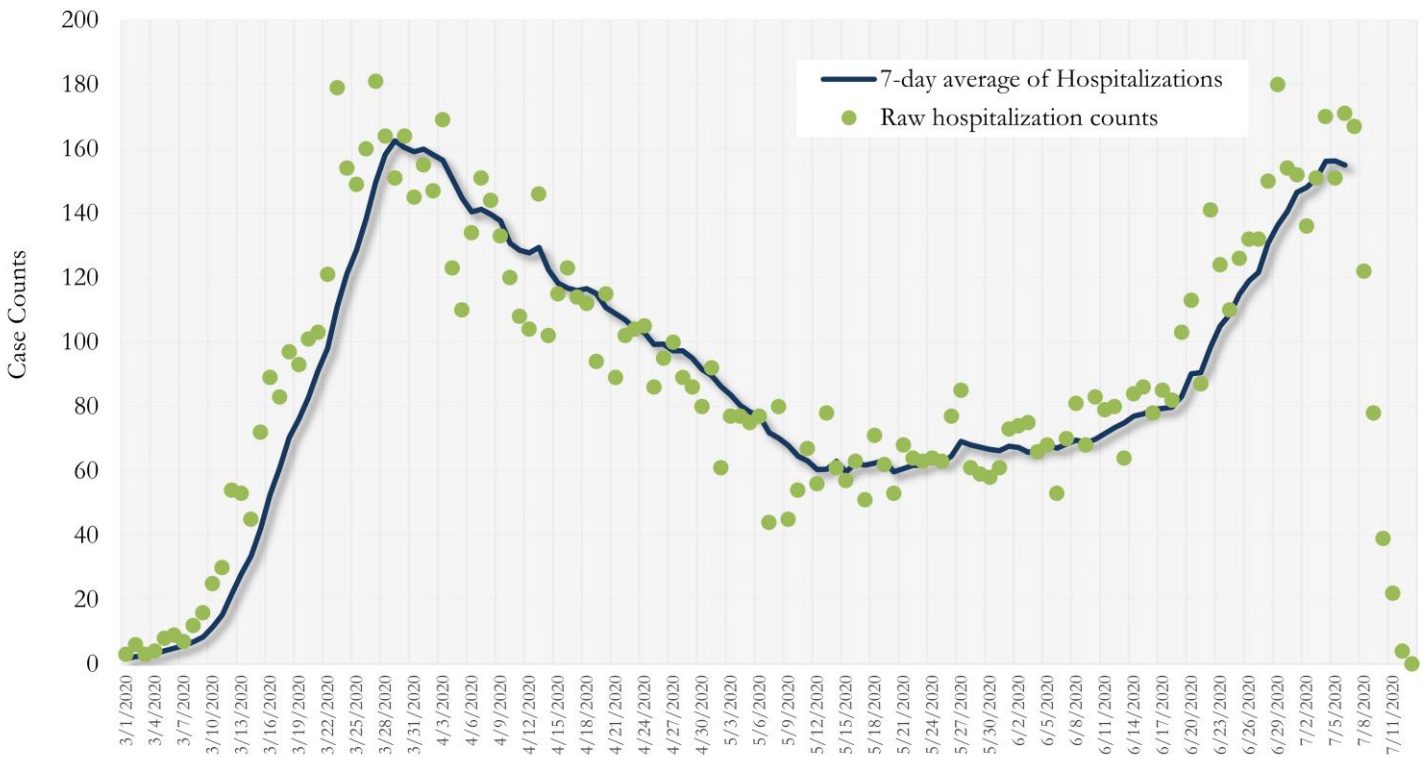
* Reported date of hospital admission used.

Fig. 19. COVID-19 Deaths in Fulton County Daily (Averaged over 7 days)
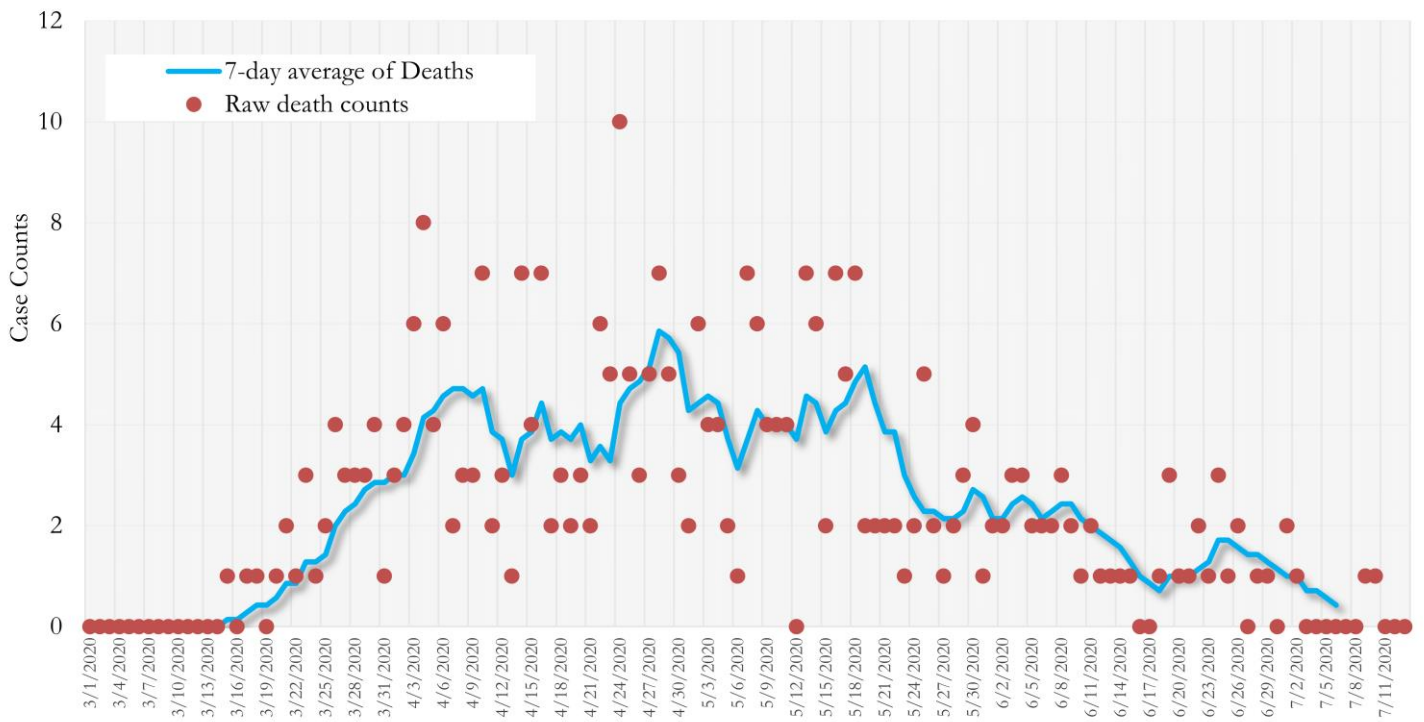
*Reported date of death used.

**Fig. 20. COVID-19 Deaths in Georgia State Daily (Averaged over 7 days)**
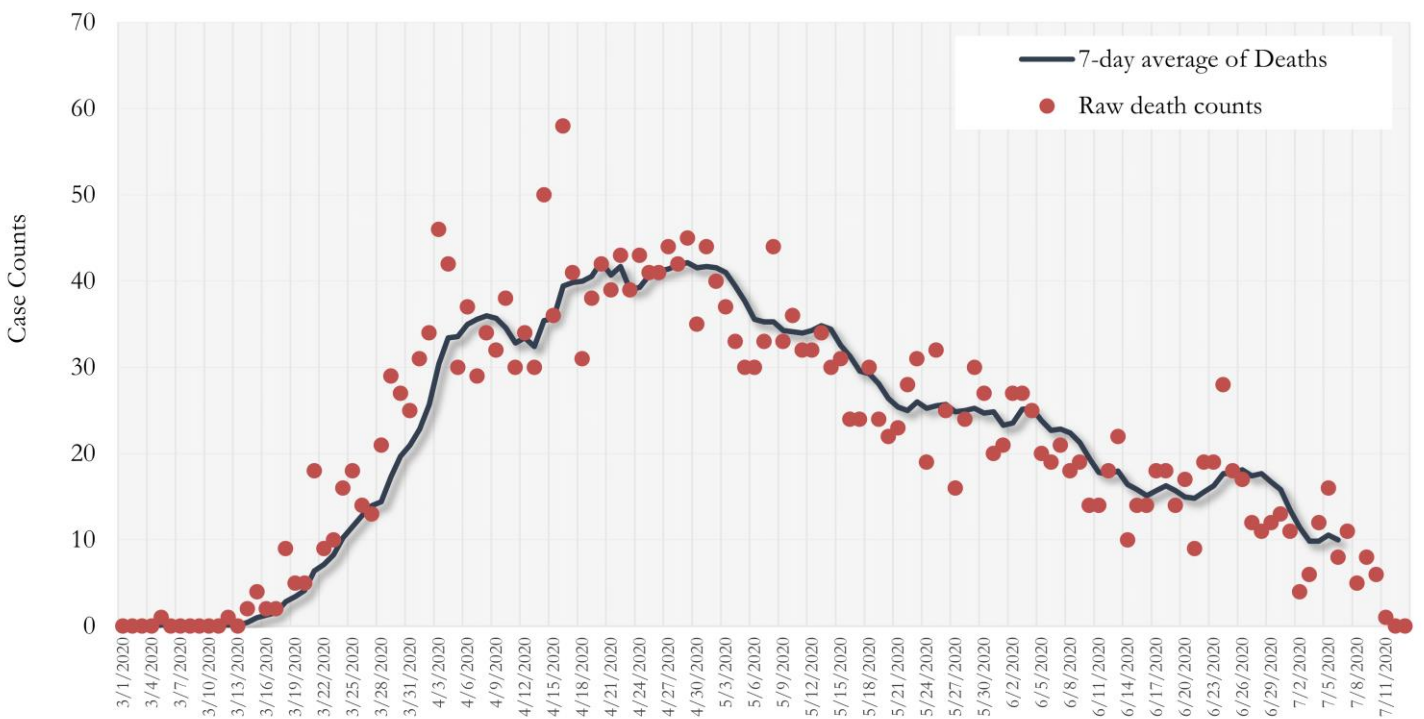
* Reported date of death used.

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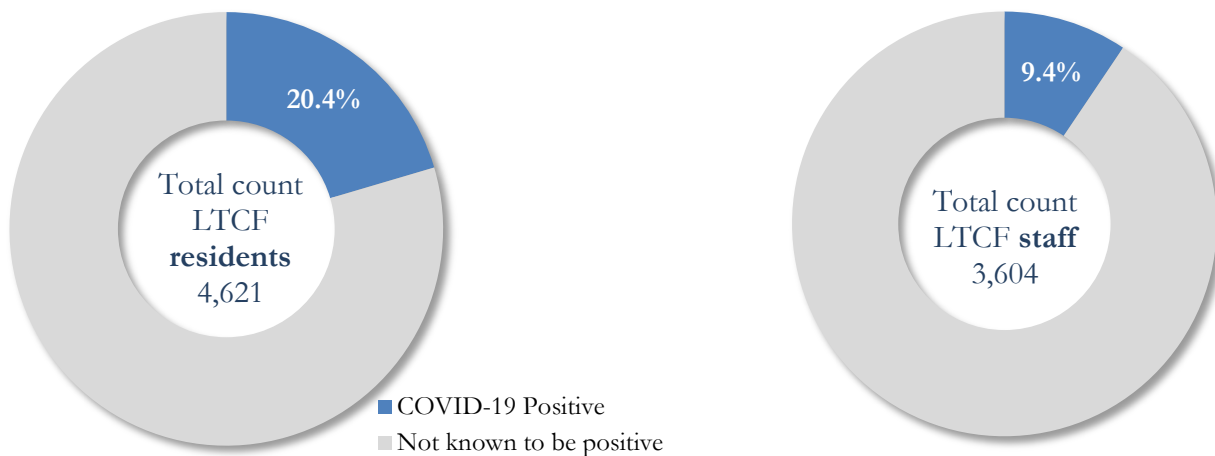
Fig. 21. COVID-19 Diagnoses and Deaths in Fulton County Associated with Long-Term Care Facilities
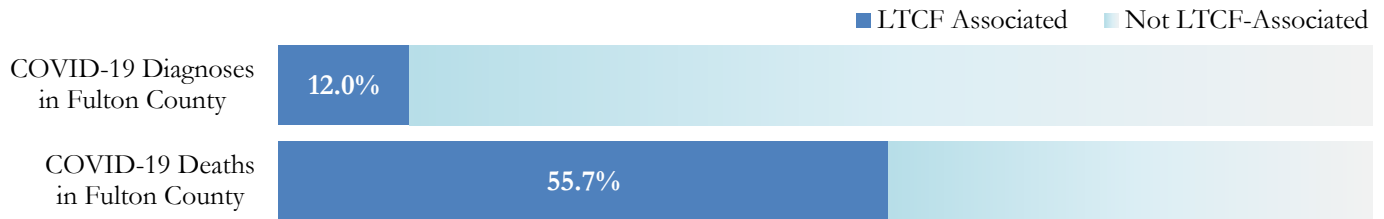
LTCF → Long-term Care Facility (Incudes residents and Staff)

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=3,604)		
	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	**944 (20.4%)**[a]	**256 (27.1%)**[b]	**178 (19.0%)**[b]	**340 (9.4%)**[a]	**28 (8.2)**[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.*

COVID-19 TESTING AND POSITIVITY IN FULTON

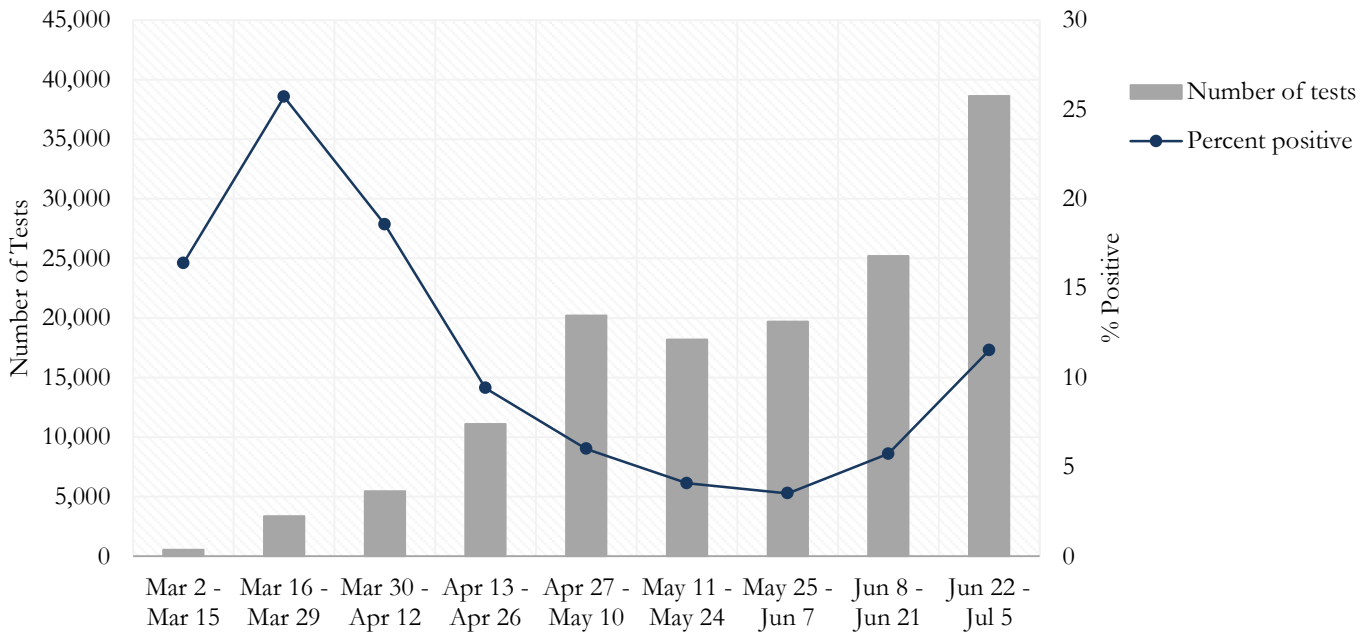**Fig. 23. Trends in Positive COVID-19 Tests in Fulton County by 14-day Periods**

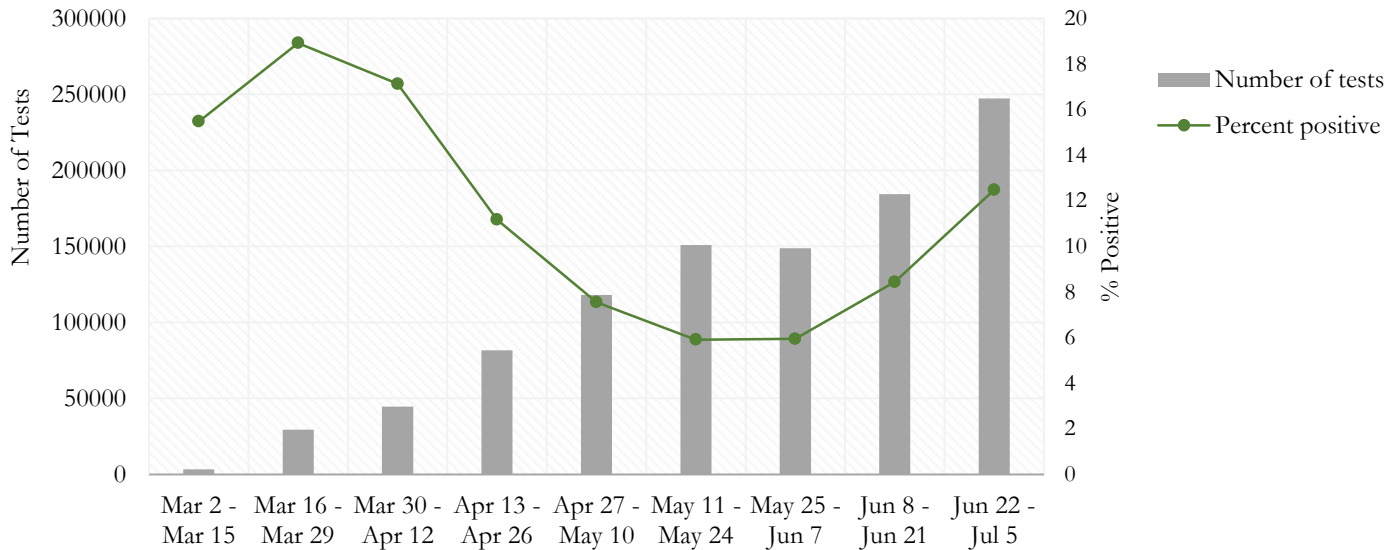**Fig. 24. Trends in Positive COVID-19 Tests in Georgia by 14-day Periods**

Fig. 25. COVID-19 Tests by Gender in Fulton County by 14-day Periods
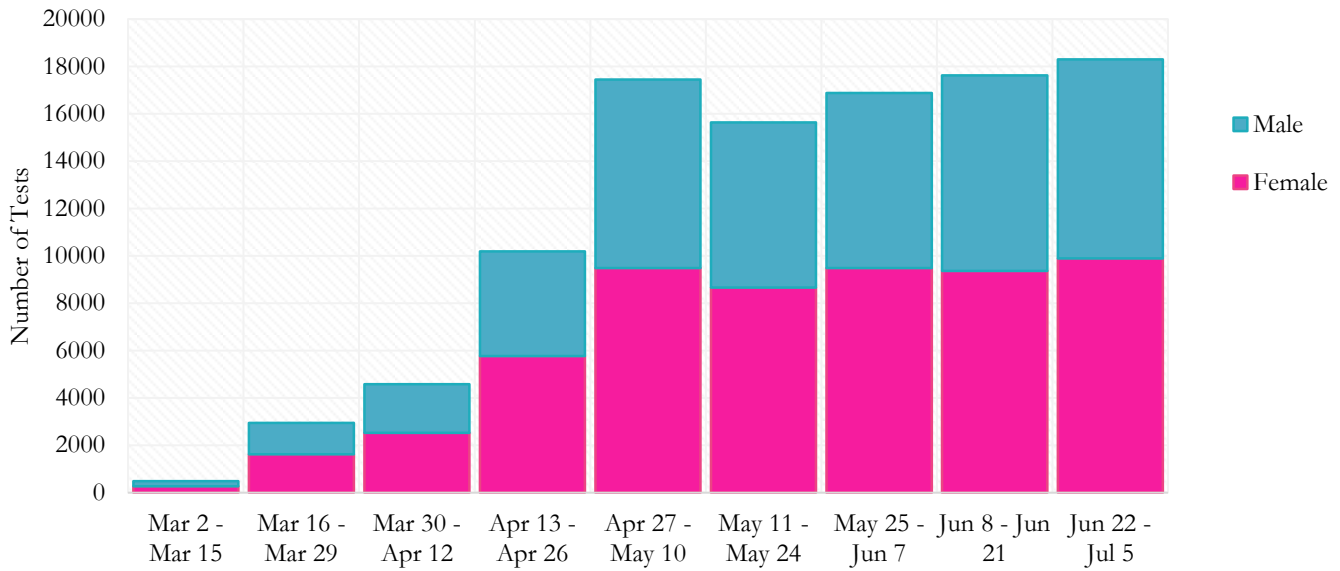

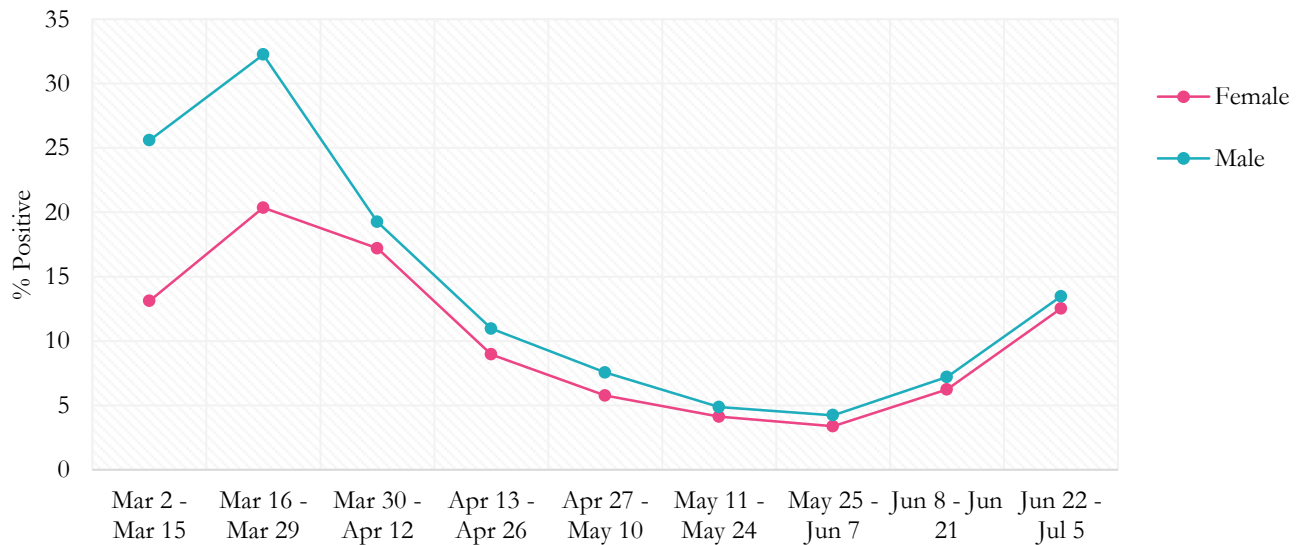**Fig. 26. Percent Positive COVID-19 Tests by Gender in Fulton County by 14-day Periods**

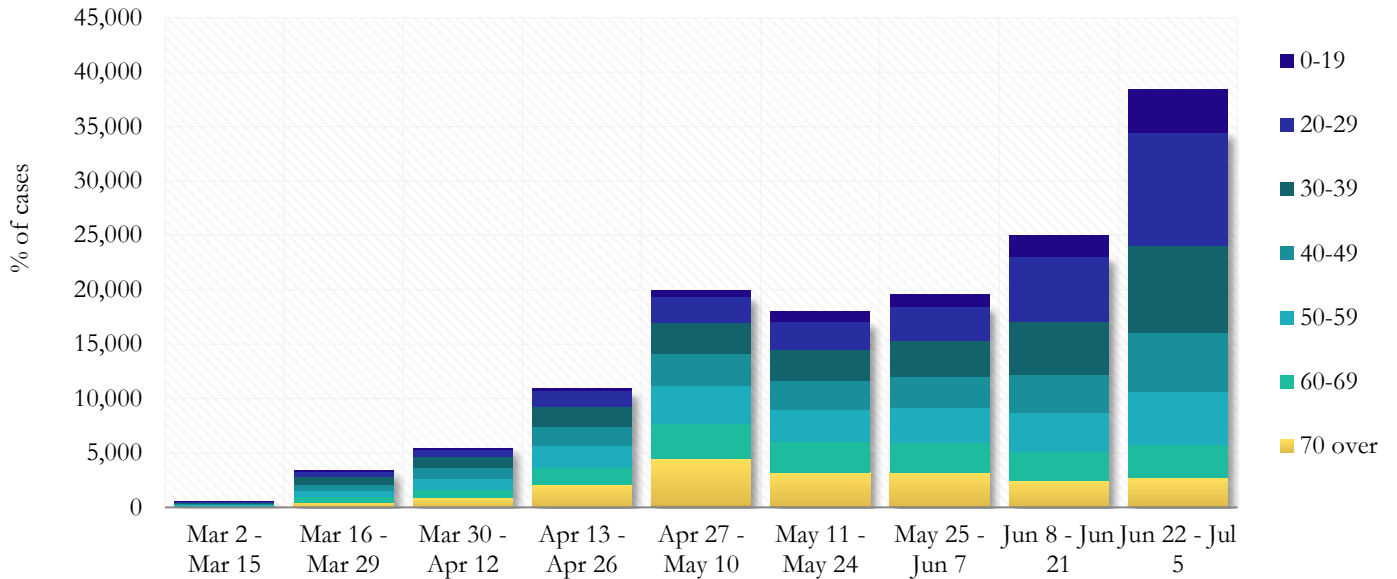**Fig. 27. COVID-19 Tests by Age in Fulton County by 14-day Periods**

Fig. 28. Percent Positive COVID-19 Tests by Age in Fulton County by 14-day Periods