Fulton County Board of Health Epidemiology Report
### COVID-19 Diagnoses – 7/17/2020

SUMMARY

- As of July 17, 2020, Fulton County has recorded **12,578** cases of the 2019 novel coronavirus (COVID-19) and **335** deaths.
- Of 4,464 **new diagnoses** made between June 27 and July 10, the central portion of the county (Atlanta metro) accounted for 49% while the northern and southern parts accounted for 19% and 19% respectively.
- By city, **new** COVID-19 diagnoses rates range from 130.3 per 100,000 persons (Johns Creek) to 499.6 per 100,000 persons (Atlanta). [Fulton County Diagnoses Rates (per 100,000 persons): Cumulative – 1,182.2; Incident – 419.6]. See map showing incident case rate by ZIP code on Pg.4.
- Among all persons diagnosed with COVID-19 in Fulton County, 11.0% required hospitalization and 2.7% died.
- Residents and staff of long-term care facilities account for 11.3% of COVID-19 diagnoses and 54.9% of COVID-19 deaths in Fulton County

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

- Hospitalized cases
- Cases not known to be hospitalized
- Cumulative Case Count
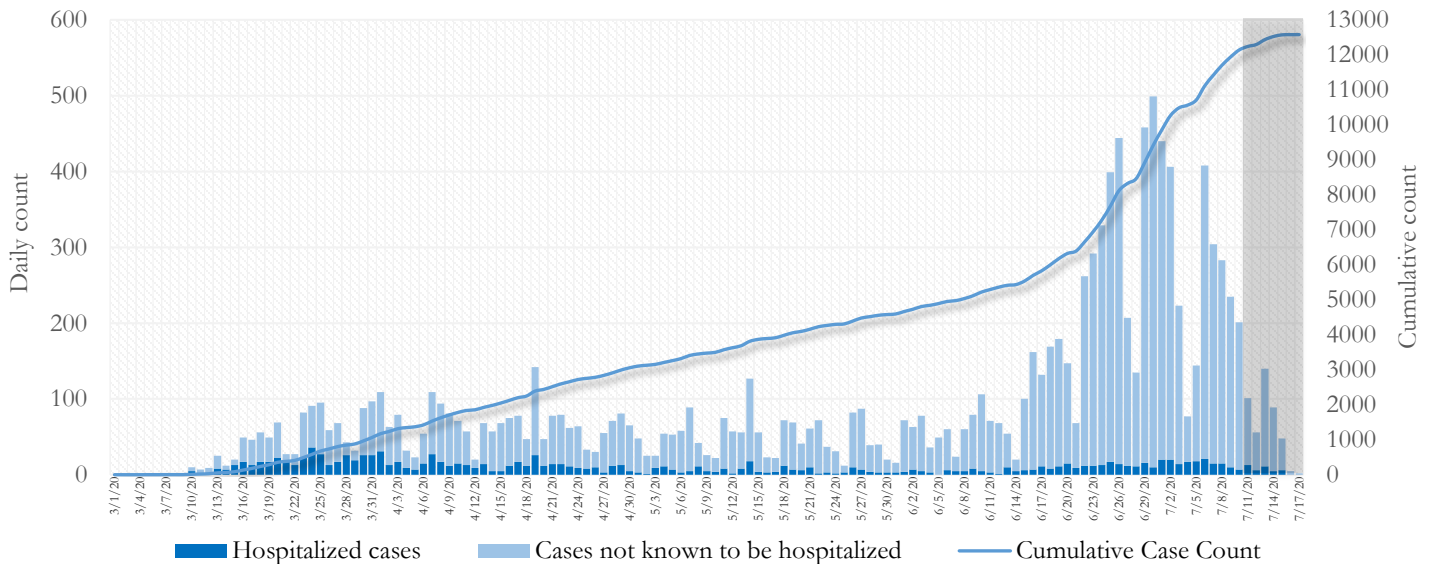
*Counts shown reflect the number of confirmed cases as of 9:00am on 7/13/20 using the date of first positive sample collection. Where date of sample collection was not available or missing, the date of report creation in GA SENDSS was used instead. **Note:** All data reported are preliminary and subject 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 20% and 19% occurred in the Northern and Southern regions of the county respectively.

Fulton Region	% Cumulative count	% New cases*
Atlanta	47.6%	49.4%
North[1]	21.6%	18.8%
South[2]	20.2%	19.2%
Unincorporated/Unknown	10.7%	12.7%

[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 6/27/20 – 7/10/20).*

Fig. 2. Distribution of COVID 19 cases by Region

Percent of confirmed cases
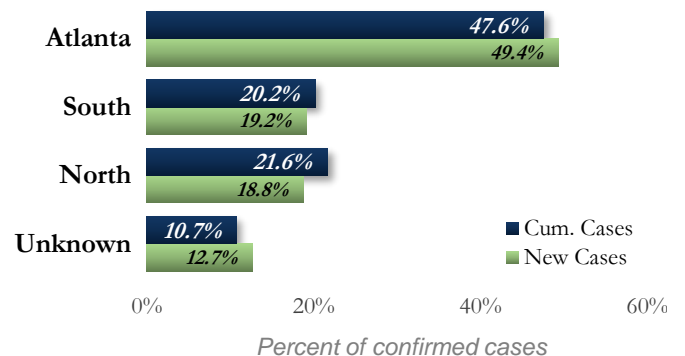
COVID-19 CASE COUNTS AND RATES BY CITY

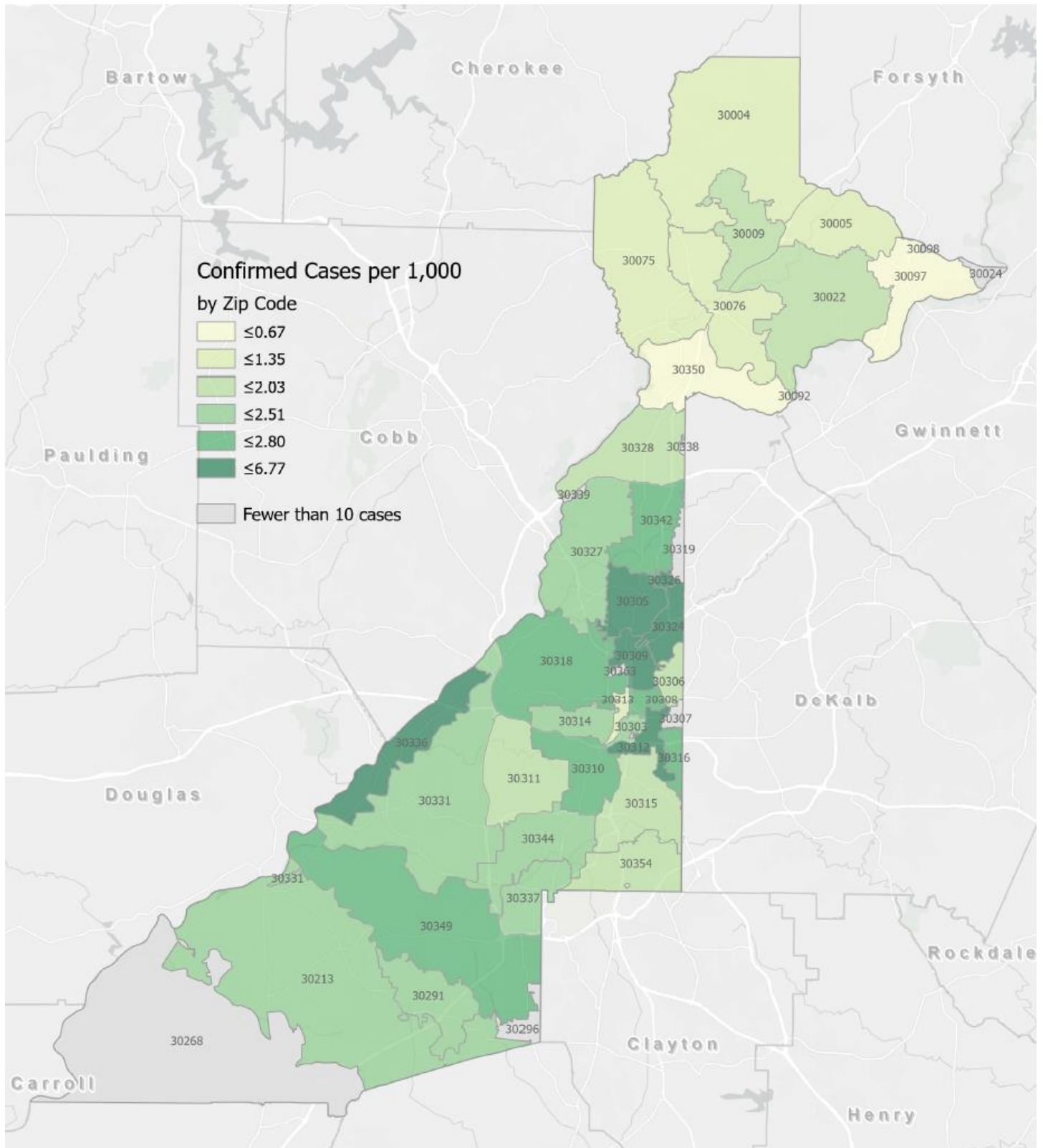|	Prior (7/15/20)	Current Total (7/17/20)			New Cases *(Period: 6/12/20 – 7/10/20)*[1]			
	Count	Count	%	Cum. Rate[2]	Ist 14 d. *(6/12–6/26)*	Last 14 d. *(6/27–7/10)*	% change[3]	Rate[4] *(Last 14 d).*
Atlanta	5547	5981	47.6%	1355.7	1158	2204	↑ 90.3%	499.6
South Fulton	1145	1252	10.0%	1316.3	217	450	↑ 107.4%	473.1
Sandy Springs	1074	1123	8.9%	1065.4	250	324	↑ 29.6%	307.4
Roswell	640	671	5.3%	711.9	141	198	↑ 40.4%	210.1
East Point	379	405	3.2%	1157.9	62	159	↑ 156.5%	454.6
Johns Creek	323	348	2.8%	416.1	87	109	↑ 25.3%	130.3
Union City	353	361	2.9%	1722.3	62	89	↑ 43.5%	424.6
Alpharetta	330	353	2.8%	545.8	98	119	↑ 21.4%	184.0
Milton	206	224	1.8%	586.8	53	89	↑ 67.9%	233.2
Fairburn	177	191	1.5%	1298.6	24	60	↑ 150.0%	407.9
College Park	161	165	1.3%	1189.0	17	49	↑ 188.2%	353.1
Palmetto	38	43	0.3%	983.5	<10	20	↑ 300.0%	457.5
Hapeville	110	118	0.9%	1793.0	29	28	↓ 3.4%	425.5
Mountain Park	0	0	0.0%	-	0	0	-	0.0
Unknown	1212	1343	10.7%	-	173	563	-	-

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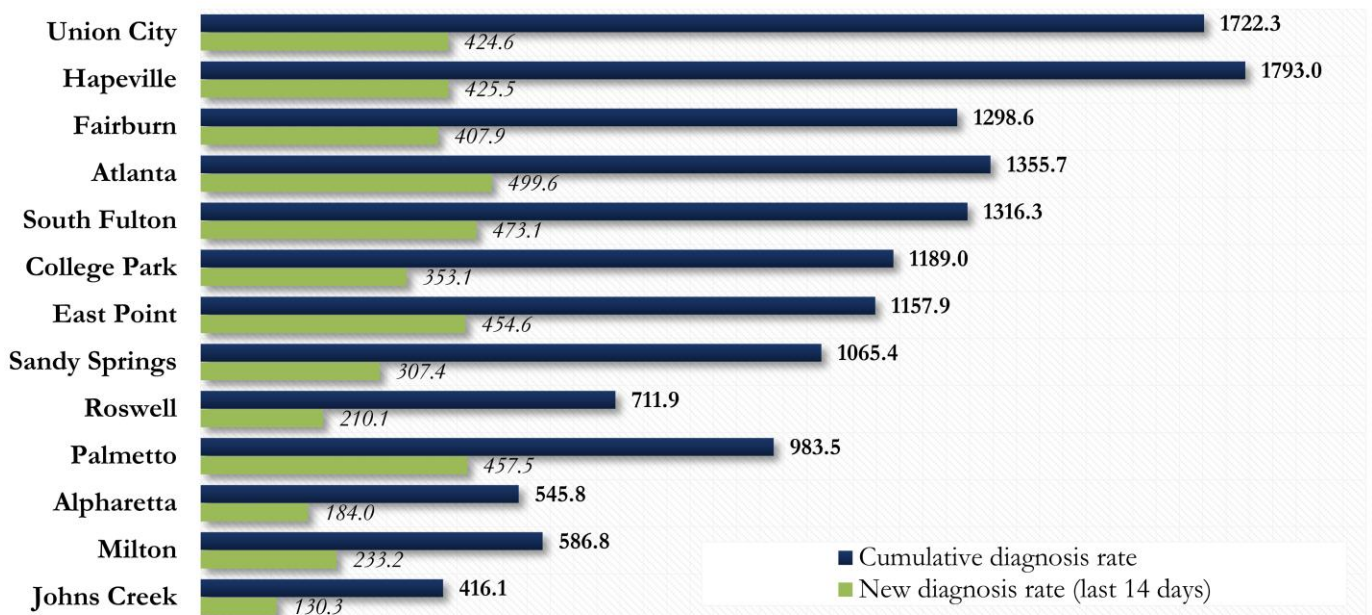
Rates shown are per 100,000 persons | **Note:** *Mass testing in specific locations (e.g. long term care facilities) may cause sharp increases in the cumulative rate of COVID-19 diagnosis in those territories. All data shown are preliminary and are subject to change as testing results get updated.*

Fig. 4. Density Map – New COVID 19 Diagnoses (Jun 27 – Jul 10, 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 27th and Jul 10th, 2020 across Fulton County.

Fig. 5. New COVID-19 Diagnoses Rates by ZIP Code (Jun 27 – Jul 10, 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 27th and Jul 10th 2020.*

COVID-19 CASE COUNTS BY ZIP CODE

| | Prior (7/15/20) | Current Total (7/17/20) | | New Cases *(Period: 6/12/20 – 7/10/20)*[1] | | |
	Count	Count	%	1st 14 days *(Jun 12 – Jun 26)*	Last 14 d. *(Jun 27 – Jul 10)*	% change[2]
All Fulton	11695	12578	100.0%	2381	4464	↑ 87.5%
30331	791	855	6.8%	121	311	↑ 157.0%
30318	764	838	6.7%	165	301	↑ 82.4%
30349	703	770	6.1%	120	317	↑ 164.2%
30213	446	481	3.8%	86	151	↑ 75.6%
30315	349	383	3.0%	54	147	↑ 172.2%
30344	342	362	2.9%	59	132	↑ 123.7%
30311	355	388	3.1%	77	143	↑ 85.7%
30342	535	568	4.5%	116	173	↑ 49.1%
30314	322	344	2.7%	34	97	↑ 185.3%
30310	375	396	3.1%	67	134	↑ 100.0%
30308	225	251	2.0%	53	102	↑ 92.5%
30022	341	374	3.0%	88	140	↑ 59.1%
30327	244	257	2.0%	62	87	↑ 40.3%
30004	295	327	2.6%	70	134	↑ 91.4%
30309	391	413	3.3%	97	163	↑ 68.0%
30076	267	284	2.3%	71	90	↑ 26.8%
30291	374	390	3.1%	59	96	↑ 62.7%
30350	246	252	2.0%	61	43	↓ 29.5%
30075	336	350	2.8%	70	92	↑ 31.4%
30328	317	339	2.7%	84	128	↑ 52.4%
30316	164	189	1.5%	26	95	↑ 265.4%
30312	439	472	3.8%	76	146	↑ 92.1%
30005	167	179	1.4%	58	62	↑ 6.9%
30305	369	394	3.1%	96	134	↑ 39.6%
30306	136	155	1.2%	22	75	↑ 240.9%
30324	458	492	3.9%	117	202	↑ 72.6%
30337	151	155	1.2%	17	42	↑ 147.1%
30009	133	139	1.1%	29	49	↑ 69.0%
30313	81	89	0.7%	16	30	↑ 87.5%
30326	104	110	0.9%	34	39	↑ 14.7%
30097	74	77	0.6%	20	12	↓ 40.0%
30354	198	224	1.8%	47	84	↑ 78.7%
30303	90	101	0.8%	20	34	↑ 70.0%
30339	125	149	1.2%	14	113	↑ 707.1%
30268	51	63	0.5%	<10	29	↑ 262.5%
30307	62	75	0.6%	11	40	↑ 263.6%
30319	71	71	0.6%	22	14	↓ 36.4%
30336	47	51	0.4%	17	14	↓ 17.6%
30296	17	18	0.1%	<10	<10	-
30363	30	30	0.2%	<10	16	↑ 220.0%
30301	<10	<10	<0.1%	0	<10	-
30345	25	25	0.2%	<10	<10	-
31131	<10	<10	<0.1%	0	<10	-
30023	<10	<10	<0.1%	<10	<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	24	24	0.2%	10	<10	↓ 80.0%
30341	23	23	0.2%	<10	<10	-
30358	<10	<10	<0.1%	0	0	-
30374	27	27	0.2%	<10	<10	-
30606	<10	<10	<0.1%	0	0	-
31150	<10	<10	<0.1%	0	0	-
30024	<10	<10	<0.1%	<10	<10	-
30098	-	-	-	0	0	-
30334	<10	<10	<0.1%	0	<10	-
30338	58	63	0.5%	<10	49	↑ 600.0%
Unknown	510	516	4.1%	72	171	-

[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
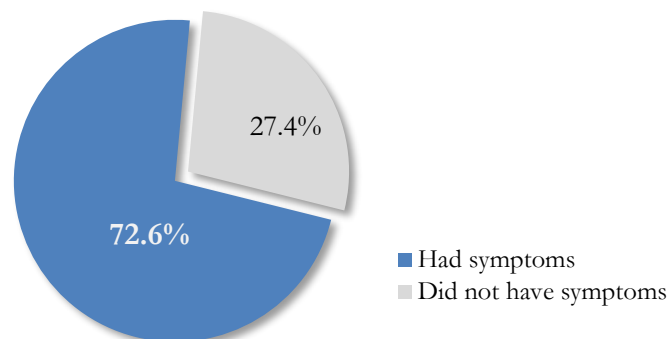
*** COVID-19 cases who have been case interviewed or had medical charts reviewed as at 7/15/20 only***

COVID-19 HOSPITALIZATIONS, ICU ADMISSIONS AND DEATHS IN FULTON

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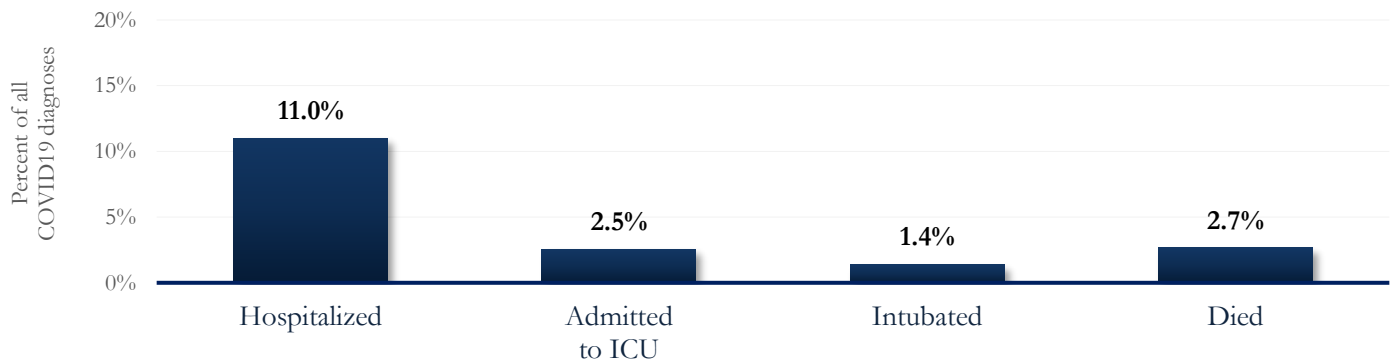
DEMOGRAPHIC DISTRIBUTIONS – COVID 19 DIAGNOSES AND DEATHS IN FULTON

		COVID-19 Diagnoses (n=12,578) Count (%)	**COVID-19 Deaths** (n=335) Count (%)
Gender:	Female	6104 (48.5%)	157 (46.9%)
	Male	5622 (44.7%)	178 (53.1%)
	Unknown/Missing	852 (6.8%)	
Age:	0-9	231 (1.8%)	0
	10-19	752 (6.0%)	<10
	20-29	3081 (24.5%)	<10
	30-39	2521 (20.0%)	<10
	40-49	1853 (14.7%)	11 (3.3%)
	50-59	1610 (12.8%)	23 (6.9%)
	60-69	1141 (9.1%)	60 (17.9%)
	≥70	1355 (10.8%)	232 (69.3%)
	Unknown/Missing	34 (0.3%)	0
Race:	Asian, NH	171 (1.4%)	<10
	Black, NH	4632 (36.8%)	242 (72.2%)
	White, NH	2004 (15.9%)	74 (22.1%)
	Hispanic	1079 (8.6%)	11 (3.3%)
	Other, NH	386 (3.1%)	<10
	Unknown/Missing	4306 (34.2%)	<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 7/17/20

Deca. (3-5)	Lawr. (3-4)	Mari. (3-1)	Forr. P. (3-3)	Atl. (3-2)
2.2%	2.7%	2.5%	2.6%	3.3%

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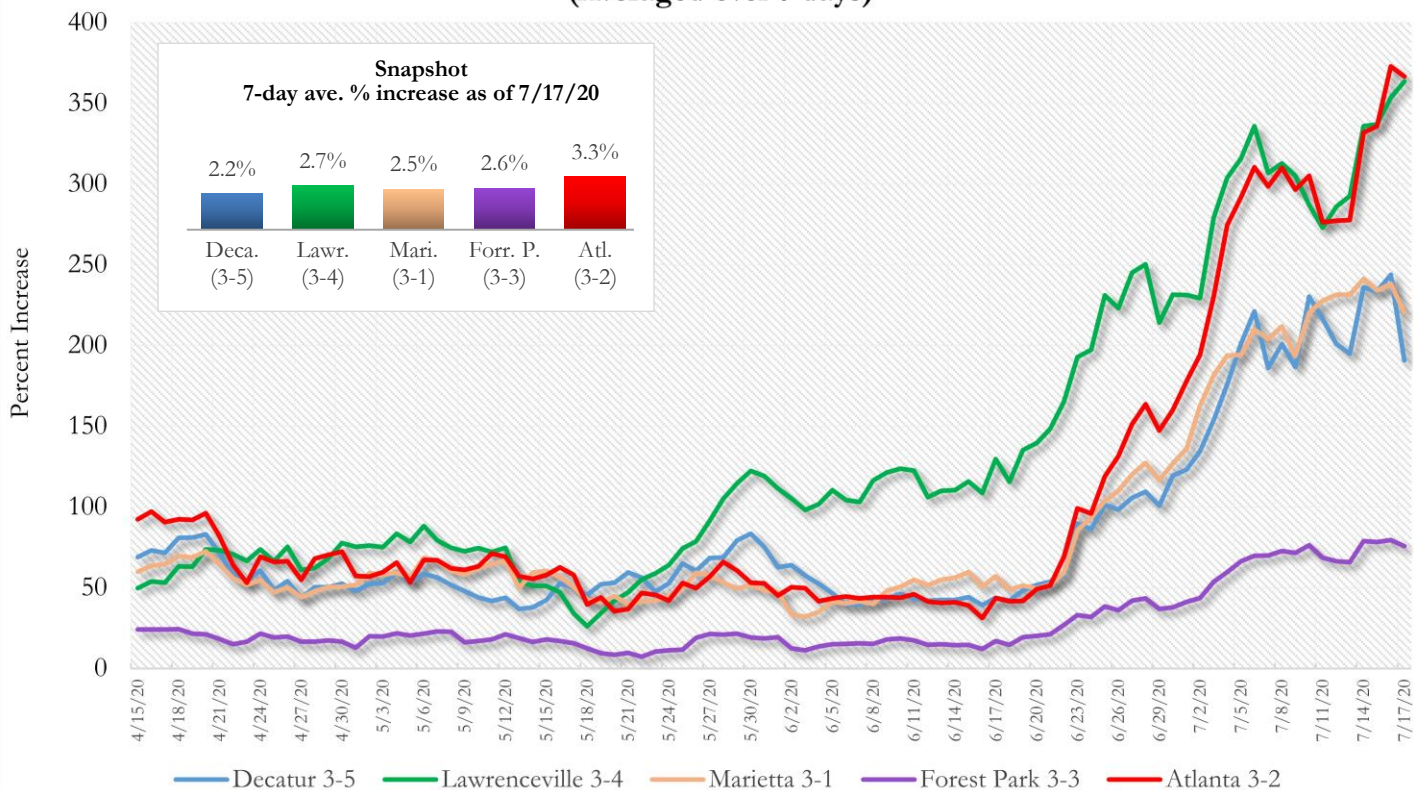
Fig. 9. Trends in Geographic distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
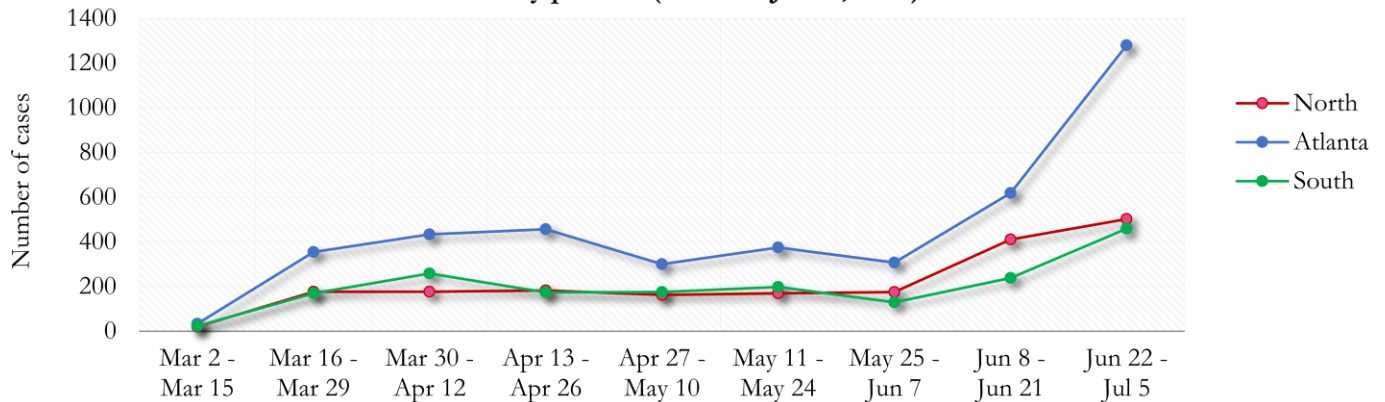
Atlanta metro has consistently accounted for the majority of newly diagnosed cases in Fulton County.

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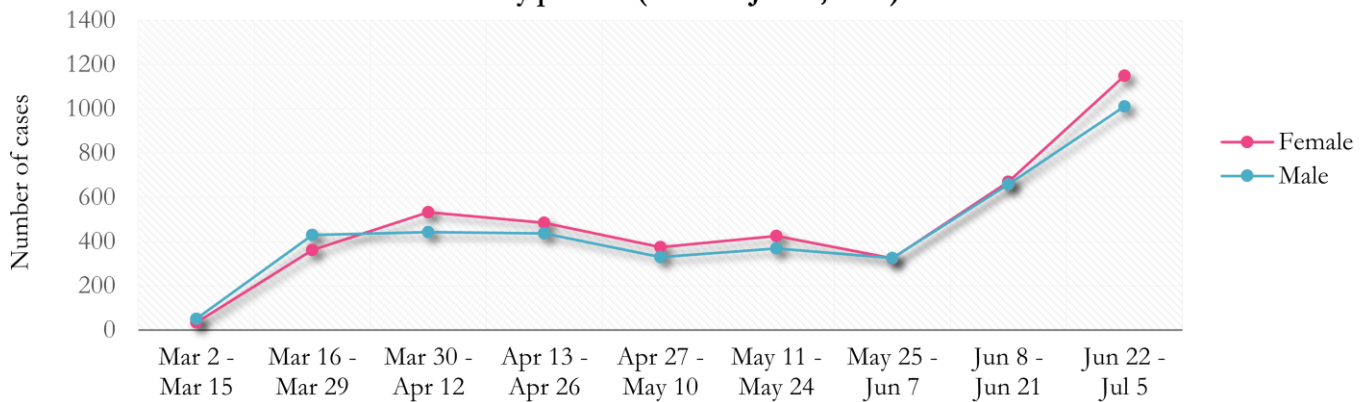
Fig. 11. Trends in Racial Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
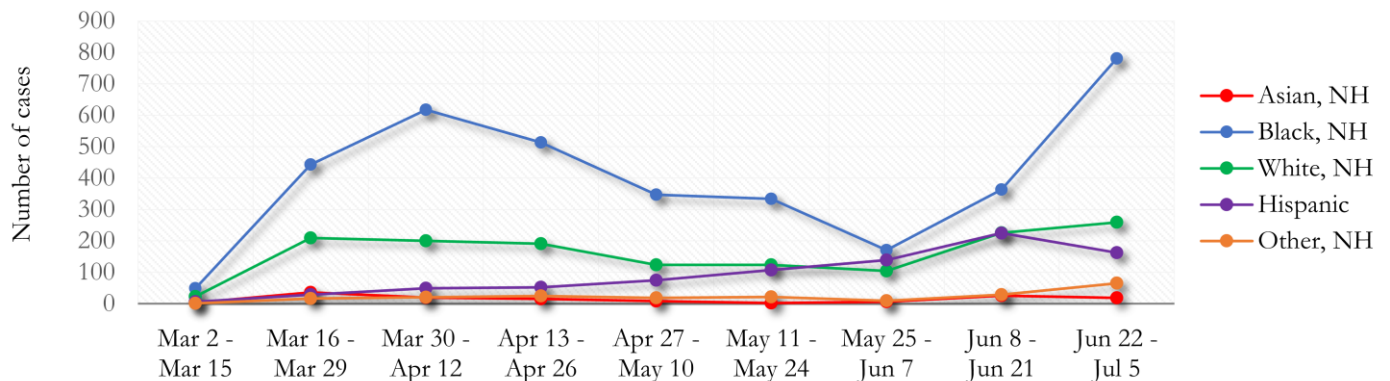
About 30% of COVID cases are missing data on patient race and ethnicity. Of cases with race and ethnicity reported, majority are Black non-Hispanic, followed by a smaller number of cases reporting White (non-Hispanic and Hispanic) race.

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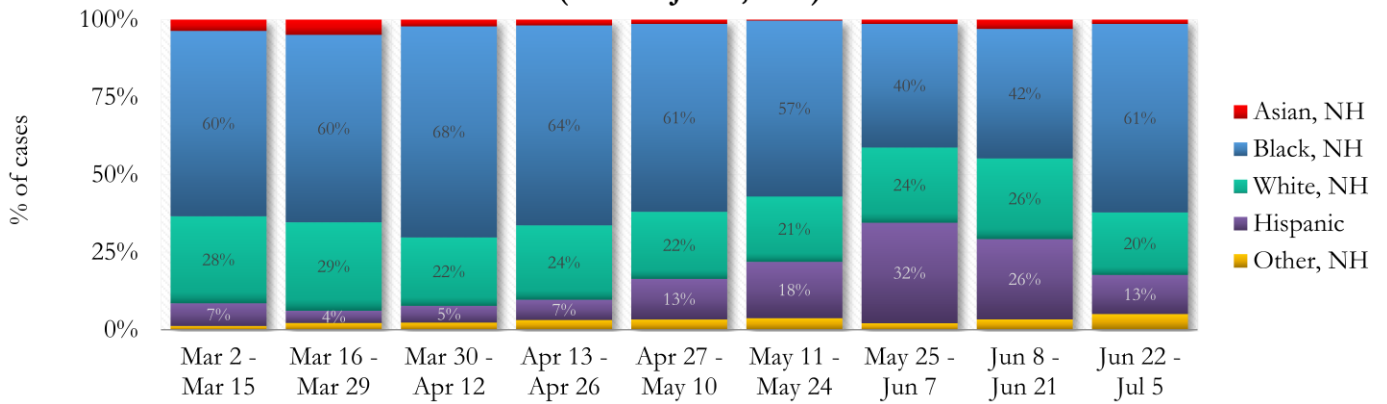
Fig. 13. Trends in Age Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)
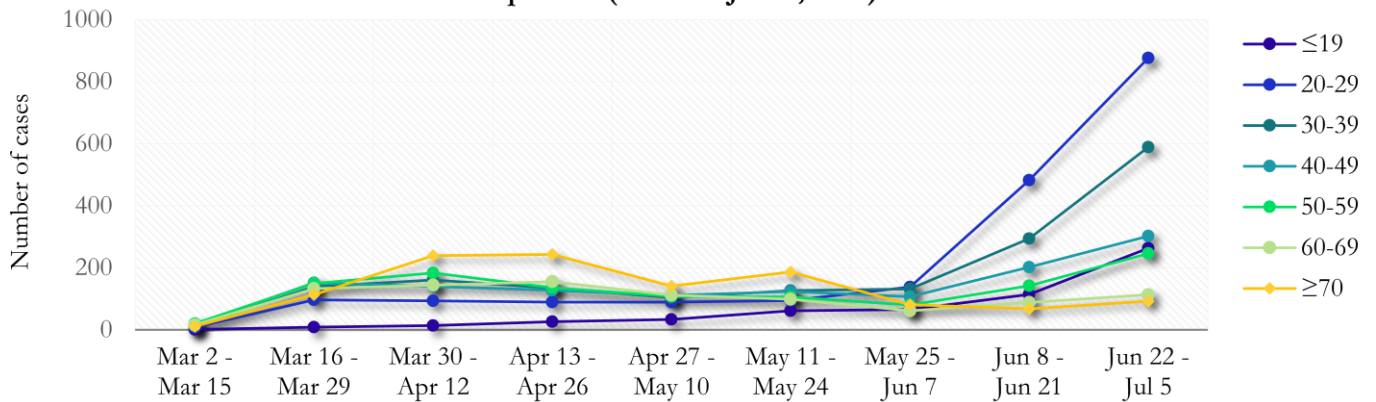
Earlier (March-May 2020) large proportions of reported cases were among persons aged 60 and older. However, starting in June, a much higher number of cases were among persons aged between 20-29 years.

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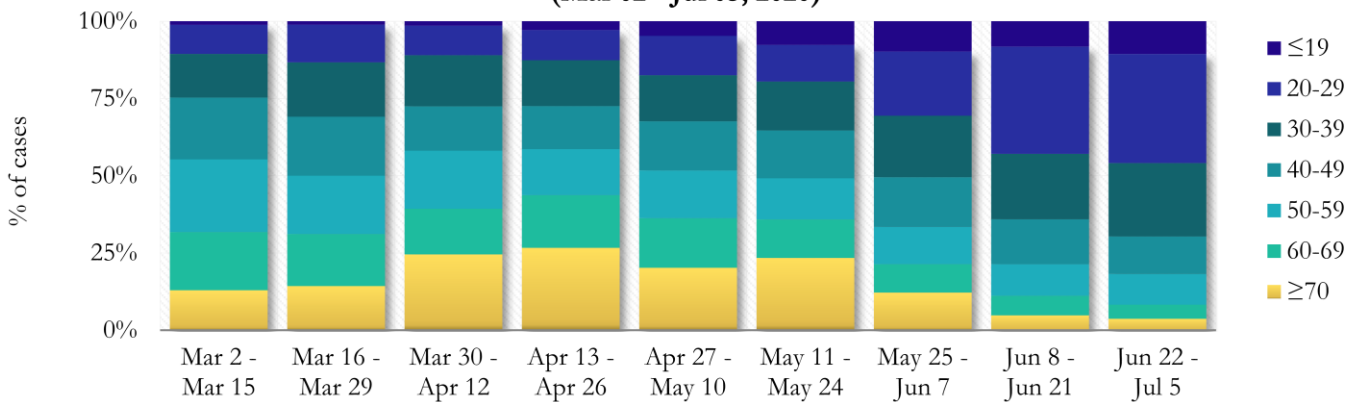
Fig. 15. New COVID-19 Cases in Fulton County Daily (Averaged over 7 days)
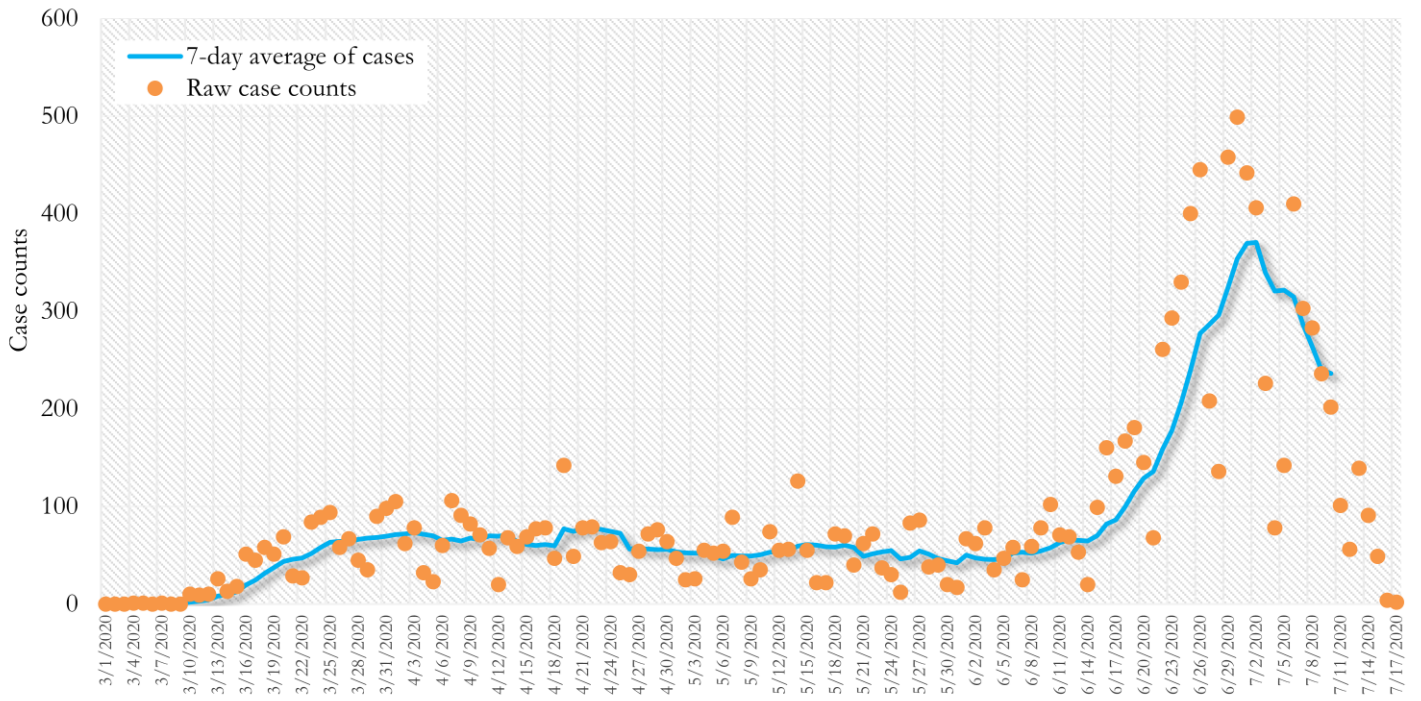
Date of collection of first positive sample used (report creation date used where sample collection date is missing).

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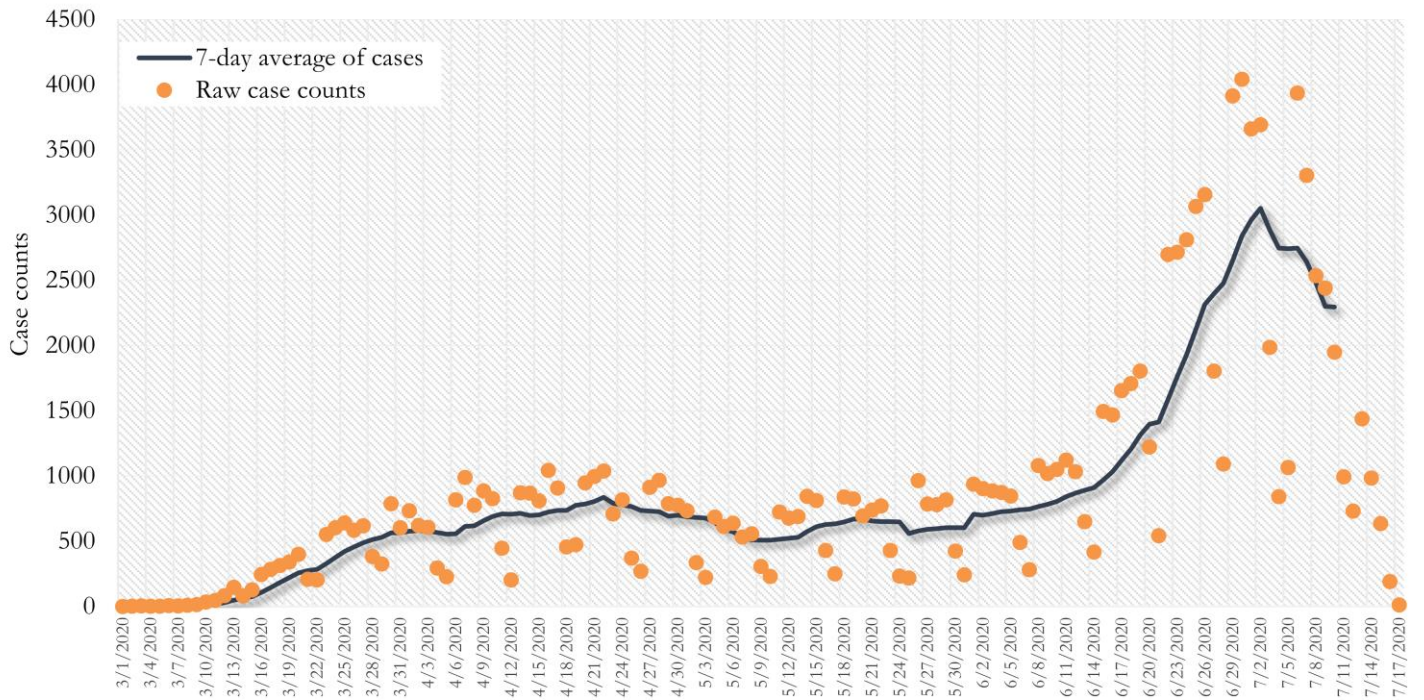
Date of collection of first positive sample used (report creation date used where sample collection date is missing).

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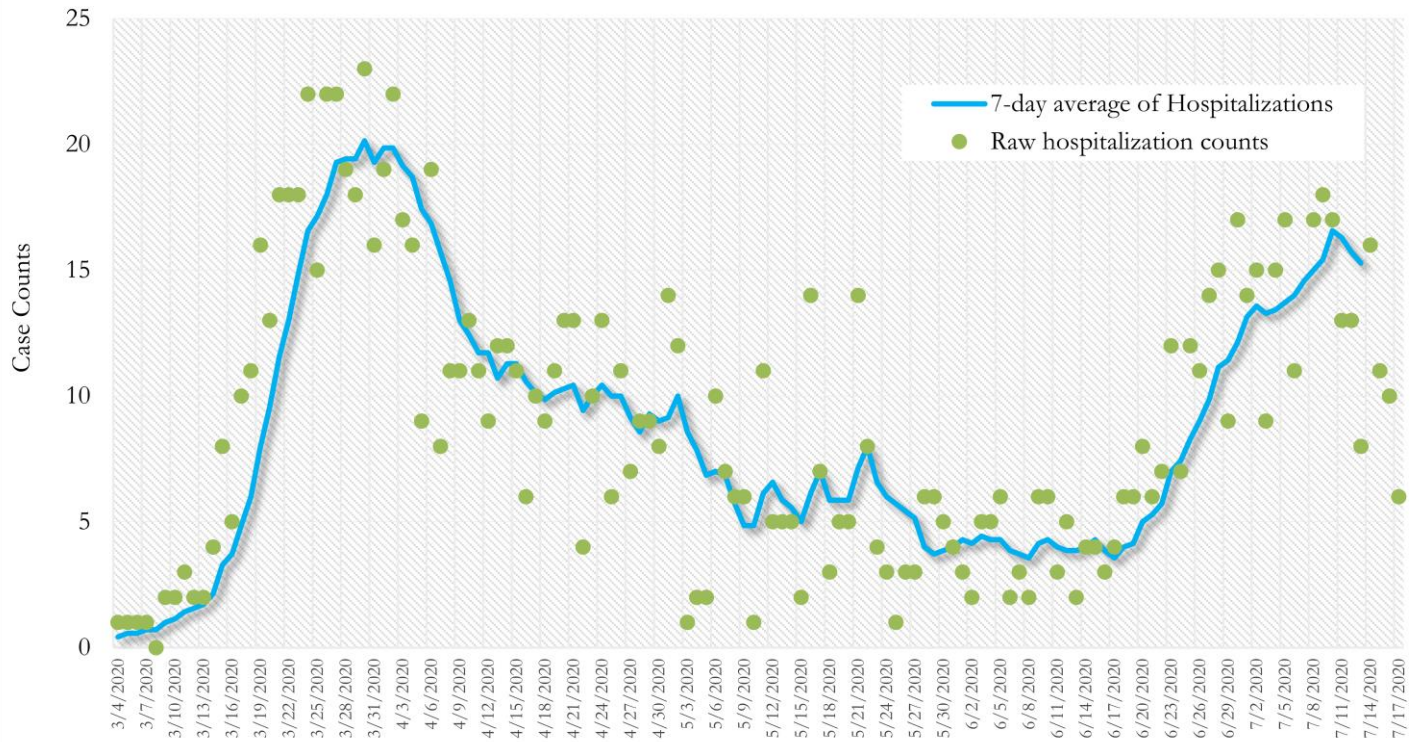
Reported date of hospital admission used.

Fig. 18. COVID-19 Hospitalizations in Georgia State Daily (Averaged over 7 days)
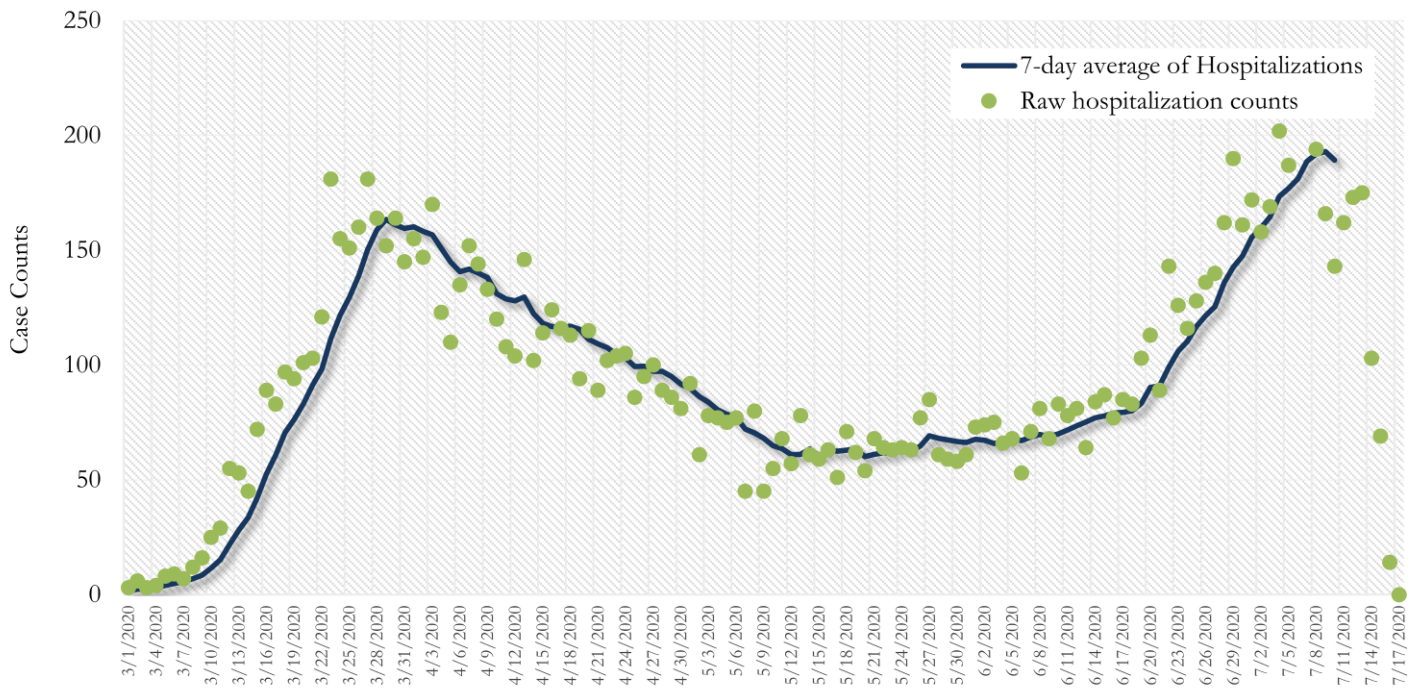
* Reported date of hospital admission used.

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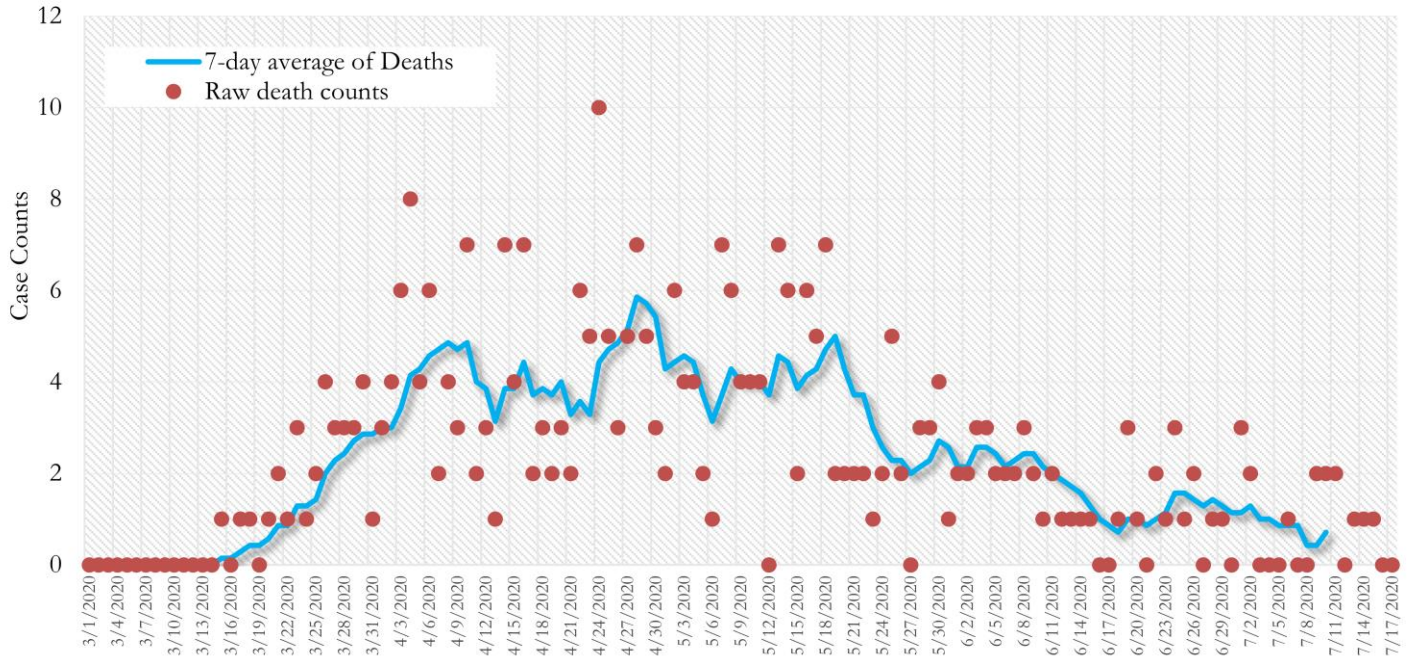
Reported date of death used.

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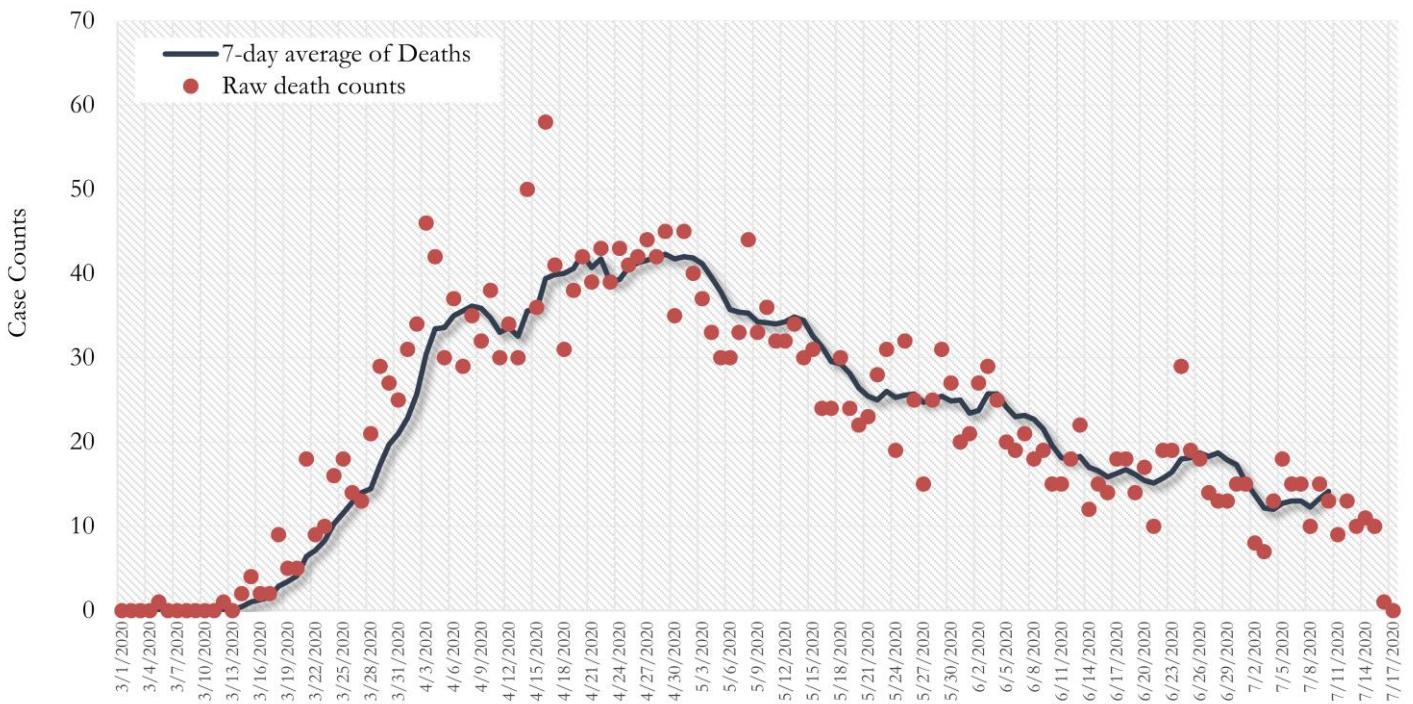
* Reported date of death used.

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
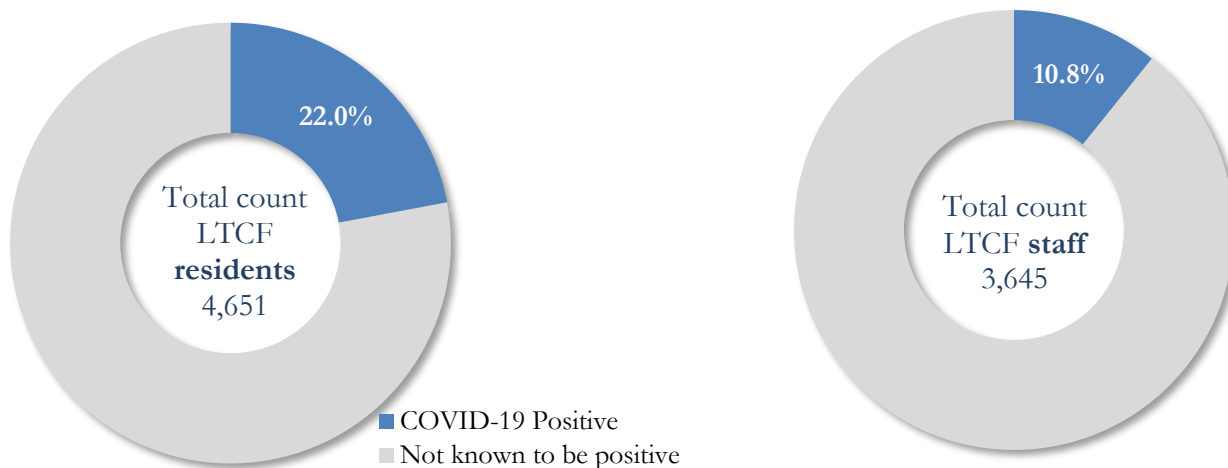
Fig. 21. COVID-19 Diagnoses and Deaths in Fulton County Associated with Long-Term Care Facilities

■ LTCF Associated   ■ Not LTCF-Associated

COVID-19 Diagnoses in Fulton County: 11.3%

COVID-19 Deaths in Fulton County: 54.9%
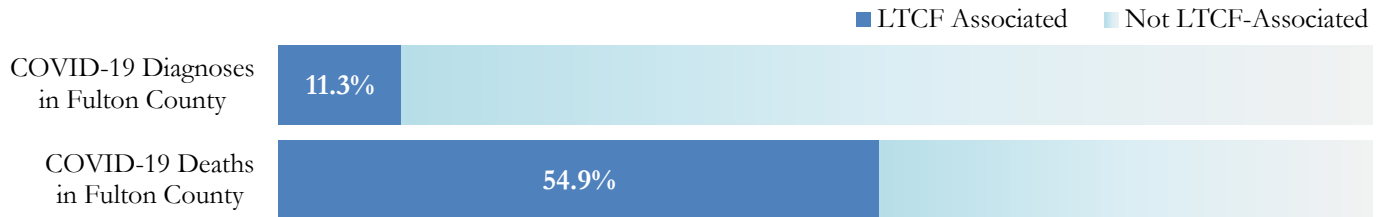
LTCF → Long-term Care Facility (Incudes residents and Staff)

COVID-19 POSITIVITY:

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

Total count LTCF **residents** 4,651 — 22.0%

Total count LTCF **staff** 3,645 — 10.8%

■ COVID-19 Positive
■ Not known to be positive

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

	LTCF Residents (n=4,651)			LTCF Staff (n=3,645)		
	Cases	Hospitalizations	Deaths	Cases	Hospitalizations	Deaths
Average (count per fac.)[1]	18	5	3	7	1	<0.1
Median (count per fac.)[1]	3	3	0	3	0	0
Lowest counts	0	0	0	0	0	0
Highest counts	136	48	29	41	8	1
Total Count	1025 (22.0%)[a]	259 (25.3%)[b]	182 (17.8%)[b]	393 (10.8%)[a]	28 (7.1)[b]	2 (0.5%)[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

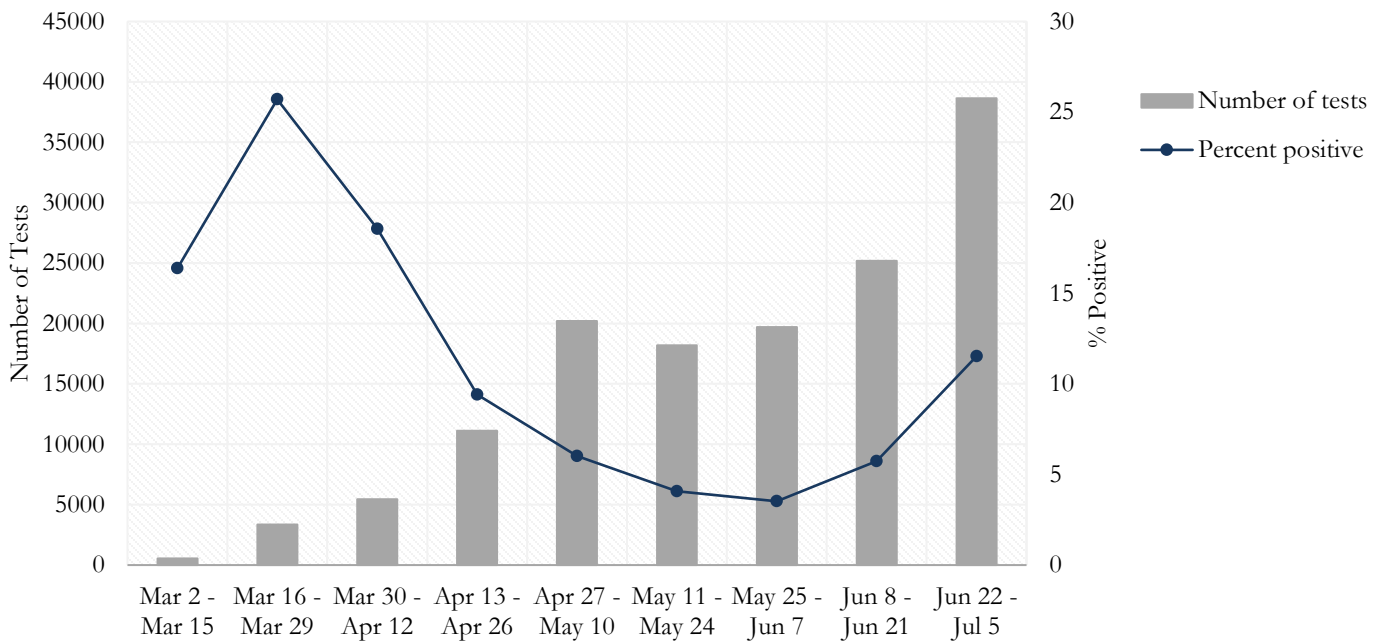**Fig. 23. Trends in Positive COVID-19 Tests in Fulton County by 14-day Periods**

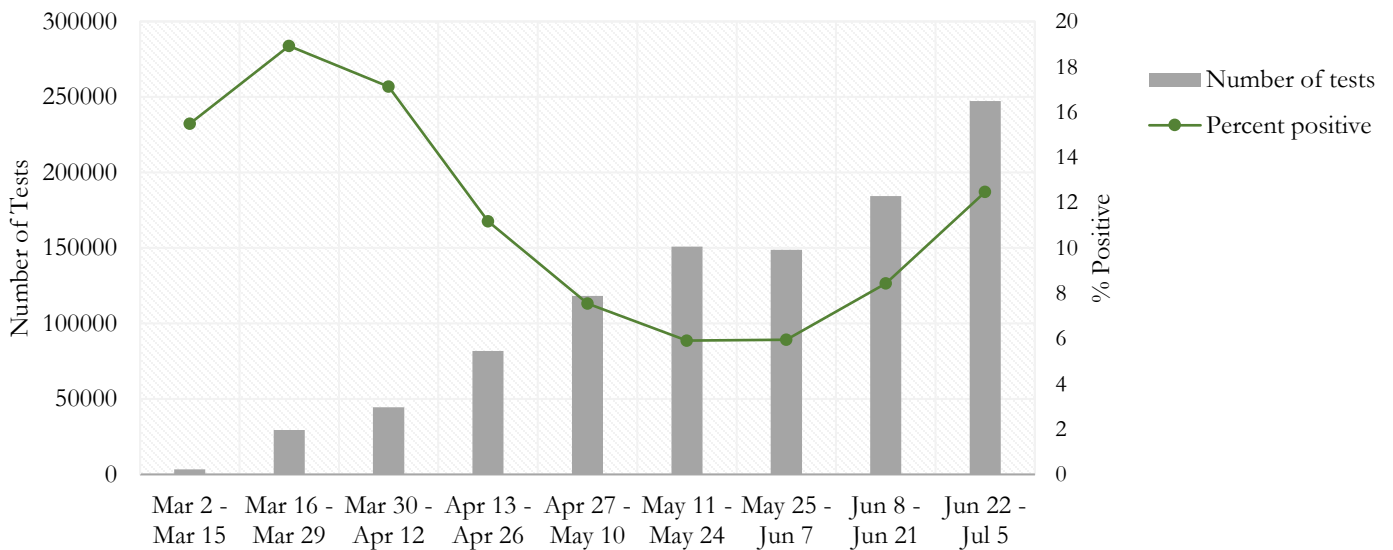**Fig. 24. Trends in Positive COVID-19 Tests in Georgia by 14-day Periods**

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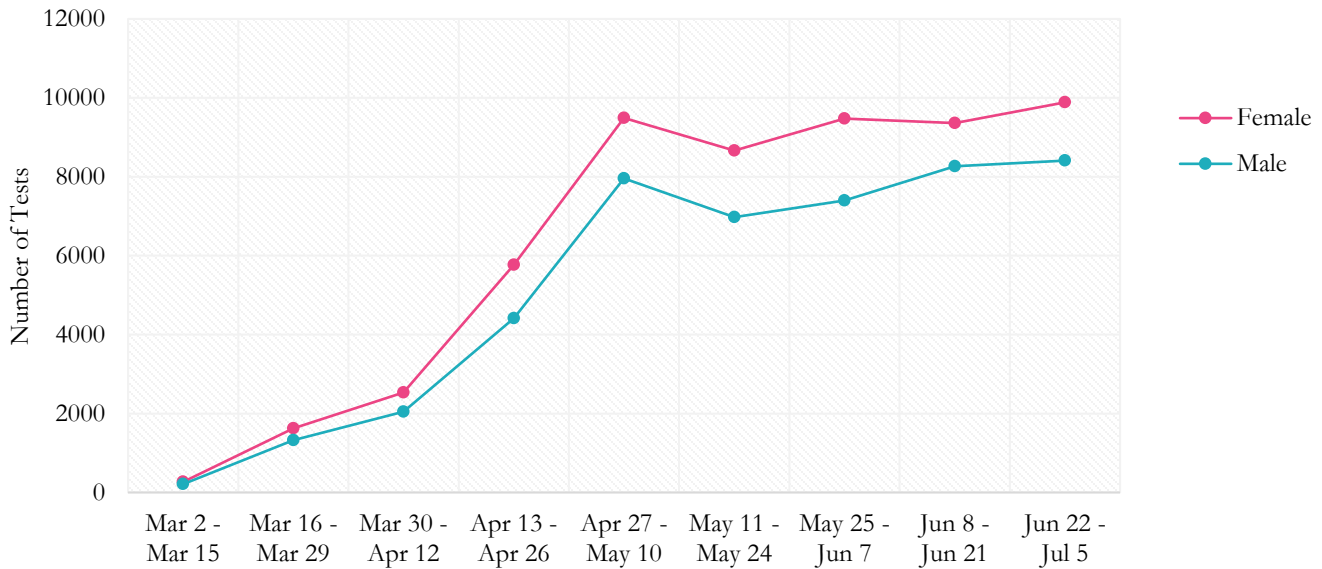

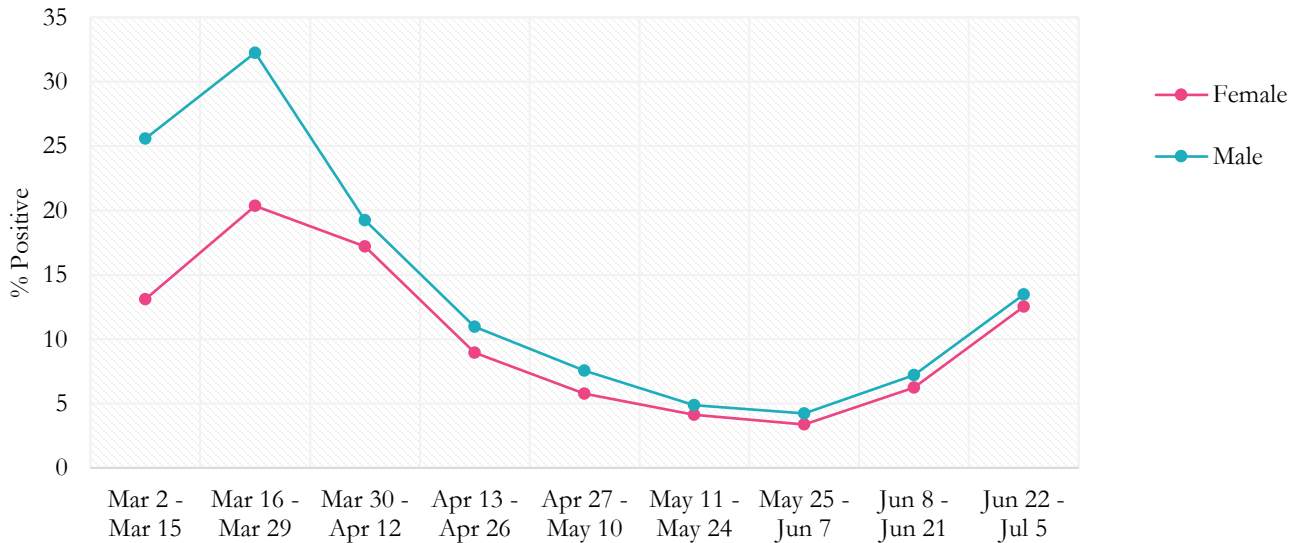**Fig. 26. Percent Positive COVID-19 Tests by Gender in Fulton County by 14-day Periods**

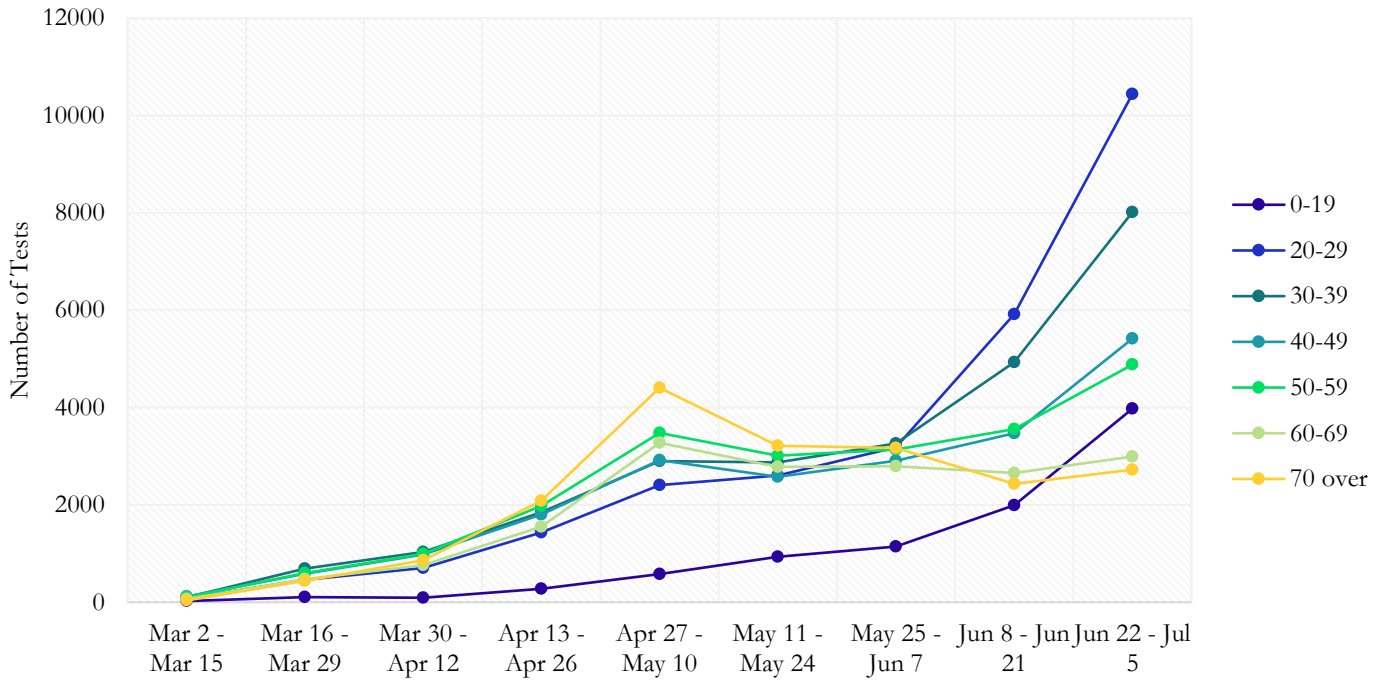**Fig. 27. COVID-19 Tests by Age in Fulton County by 14-day Periods**

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