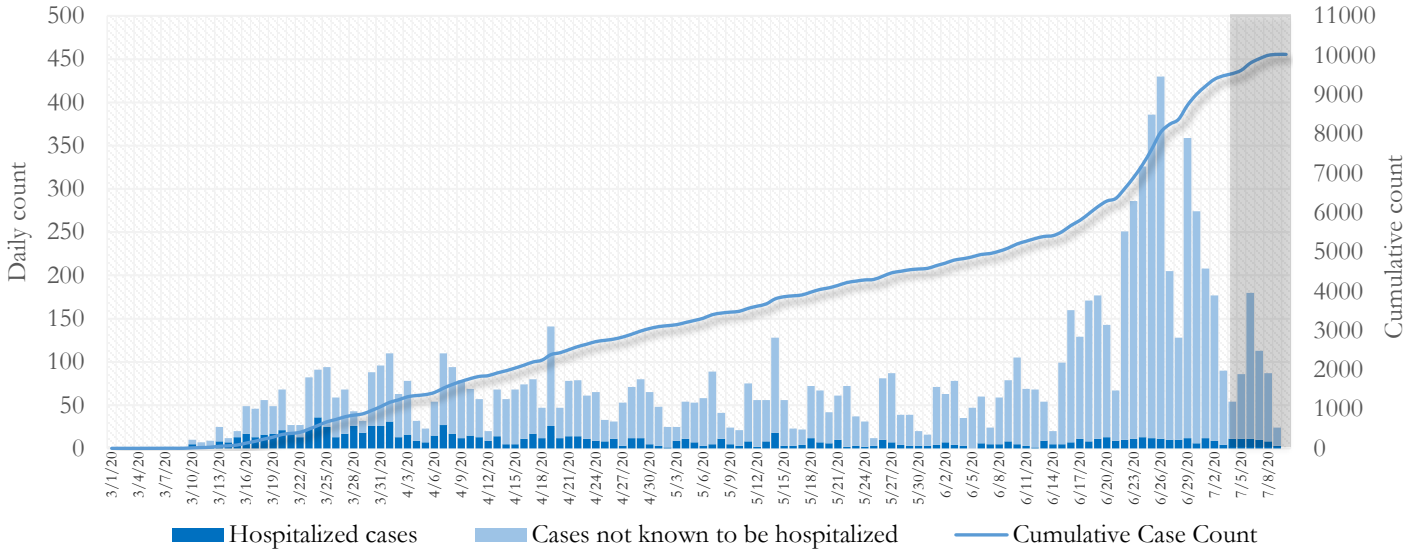
Fulton County Board of Health Epidemiology Report

COVID-19 Diagnoses – 7/10/2020

SUMMARY

- As of July 10, 2020, Fulton County has recorded **10,021** cases of the 2019 novel coronavirus (COVID-19) and **320** deaths.
- Of 3,507 **new diagnoses** made between June 19 and July 02, the central portion of the county (Atlanta metro) accounted for 51% while the northern and southern parts accounted for 22% and 18% respectively.
- By city, **new** COVID-19 diagnoses rates range from 132.7 per 100,000 persons (Johns Creek) to 405.3 per 100,000 persons (Atlanta). [Fulton County Diagnoses Rates (per 100,000 persons): Cumulative – 941.9; Incident – 329.6]. See map showing incident case rate by ZIP code on Pg.4.
- Among all persons diagnosed with COVID-19 in Fulton County, 12.3% required hospitalization and 3.2% died.
- Residents and staff of long-term care facilities account for 13% 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



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.*

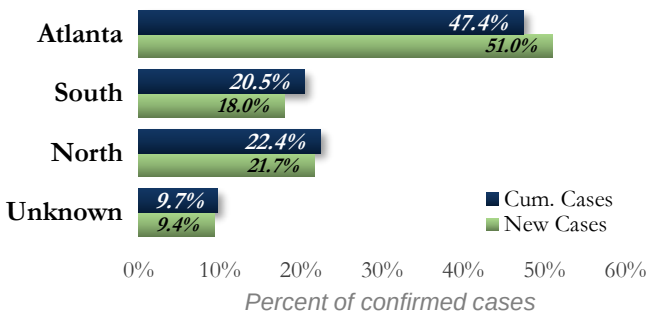
DISTRIBUTION OF COVID-19 DIAGNOSES BY REGION

New cases: 51% of the new COVID-19 cases diagnosed in the past 2 weeks occurred in Atlanta while 22% and 18% occurred in the Northern and Southern regions of the county respectively.

Fulton Region	% Cumulative count	% New cases*
Atlanta	47.4%	51.0%
North[1]	22.4%	21.7%
South[2]	20.5%	18.0%
Unincorporated/Unknown	9.7%	9.4%

*[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 6/17/20 – 6/30/20).*

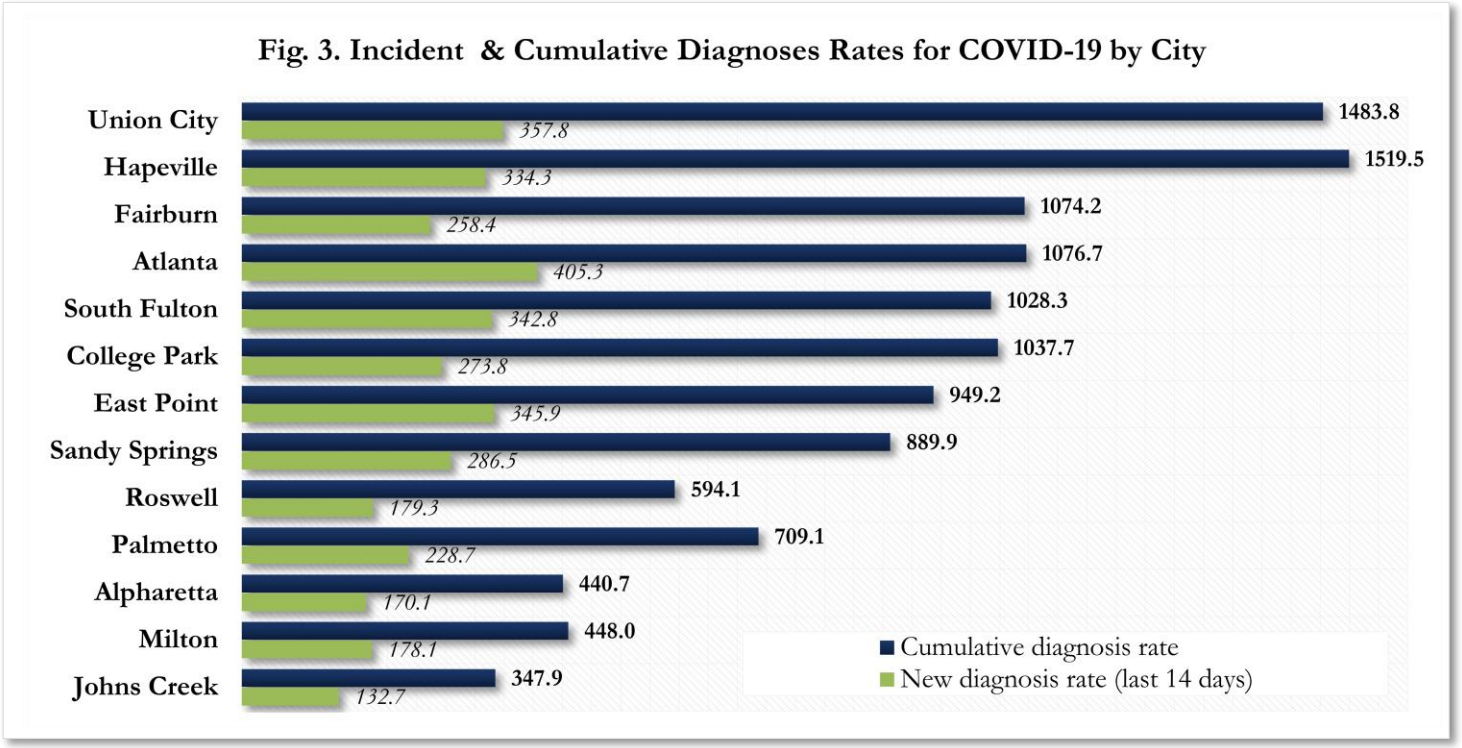
Fig. 2. Distribution of COVID 19 cases by Region



COVID-19 CASE COUNTS AND RATES BY CITY

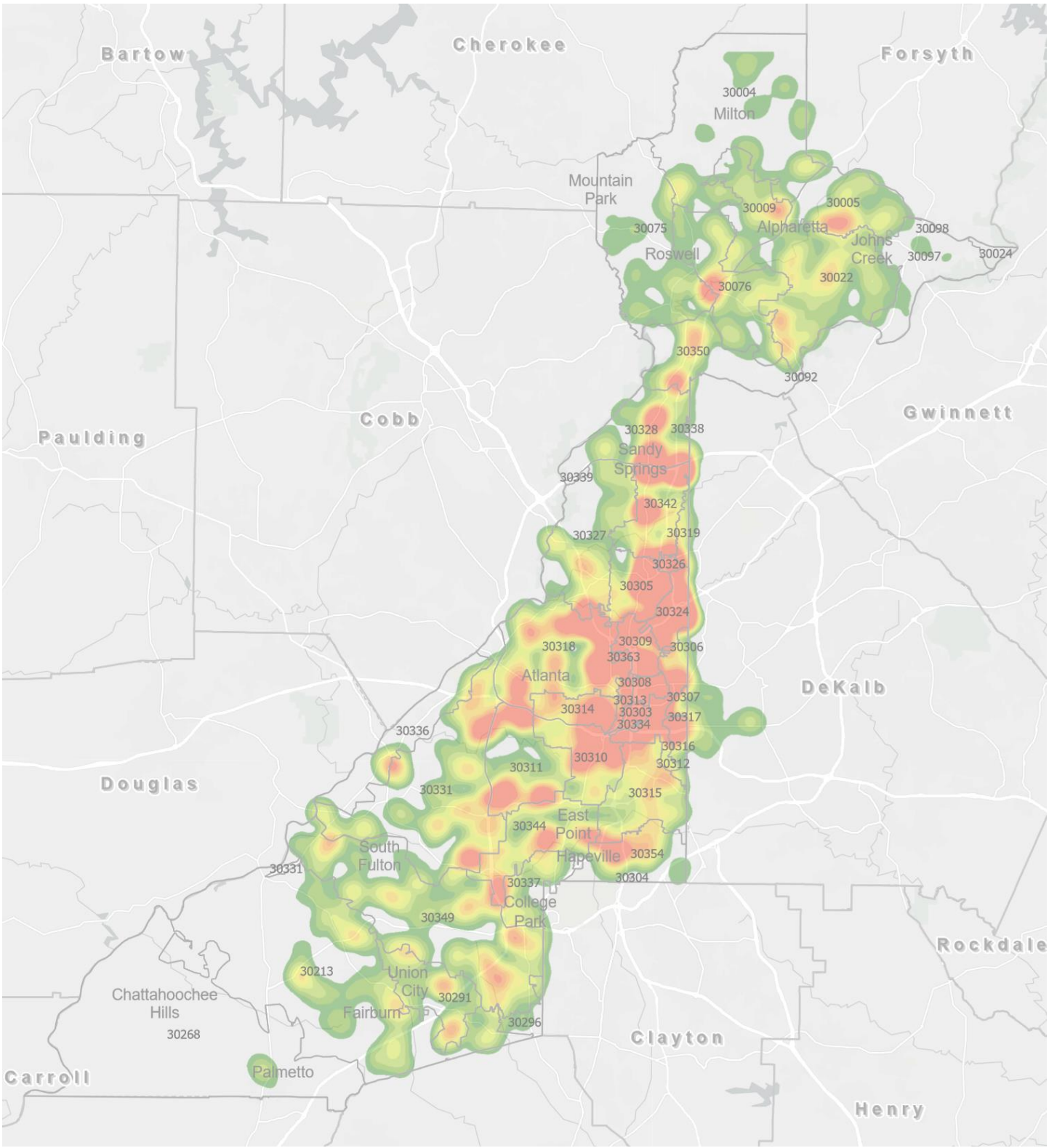
	Prior (7/08/20)	Current Total (7/10/20)			New Cases *(Period: 6/05/20 – 7/03/20)*[1]			
	Count	Count	%	Cum. Rate[2]	Ist 14 d. *(6/05–6/18)*	Last 14 d. *(6/20–7/03)*	% change[3]	Rate[4] *(Last 14 d).*
Atlanta	4338	4750	47.4%	1076.7	490	1788	↑ 264.9%	405.3
South Fulton	914	978	9.8%	1028.3	86	326	↑ 279.1%	342.8
Sandy Springs	866	938	9.4%	889.9	135	302	↑ 123.7%	286.5
Roswell	520	560	5.6%	594.1	94	169	↑ 79.8%	179.3
East Point	314	332	3.3%	949.2	34	121	↑ 255.9%	345.9
Johns Creek	259	291	2.9%	347.9	45	111	↑ 146.7%	132.7
Union City	294	311	3.1%	1483.8	29	75	↑ 158.6%	357.8
Alpharetta	264	285	2.8%	440.7	44	110	↑ 150.0%	170.1
Milton	151	171	1.7%	448.0	24	68	↑ 183.3%	178.1
Fairburn	145	158	1.6%	1074.2	17	38	↑ 123.5%	258.4
College Park	130	144	1.4%	1037.7	<10	38	↑ 375.0%	273.8
Palmetto	26	31	0.3%	709.1	<10	10	↑ 900.0%	228.7
Hapeville	95	100	1.0%	1519.5	31	22	↓ 29.0%	334.3
Mountain Park	0	0	0.0%	-	0	0	-	0.0
Unknown	1050	972	9.7%	-	100	328	-	-

*[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**.*



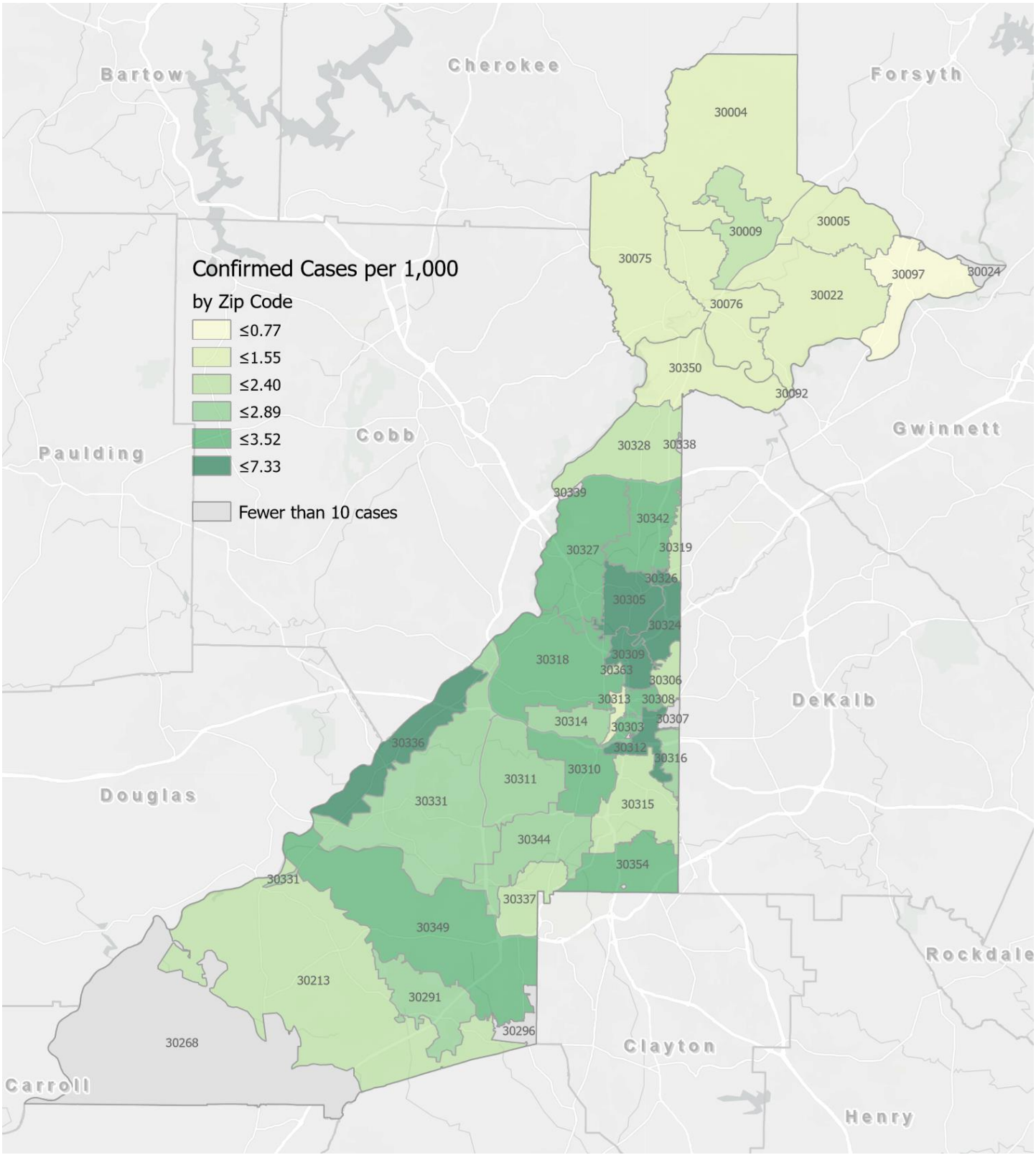
Rates shown are per 100,000 persons | **Note: Mass testing in specific locations (e.g. long term care facilities) may cause sharp increases in the cumulative rate of COVID-19 diagnosis in those territories. All data shown are preliminary and are subject to change as testing results get updated.*

Fig. 4. Density Map – New COVID 19 Diagnoses (Jun 19 – Jul 02, 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 19 – Jul 02, 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 (7/08/20)	Current Total (7/10/20)		New Cases *(Period: 6/05/20 – 7/03/20)*[1]		
	Count	Count	%	1st 14 days *(Jun 05 – Jun 18)*	Last 14 d. *(Jun 19 – Jul 02)*	% change[2]
All Fulton	9366	10021	100.0%	1144	3507	↑ 206.6%
30331	648	681	6.8%	62	208	↑ 235.5%
30318	589	644	6.4%	64	227	↑ 254.7%
30349	551	595	5.9%	41	232	↑ 465.9%
30213	354	379	3.8%	43	110	↑ 155.8%
30315	275	291	2.9%	29	95	↑ 227.6%
30344	282	297	3.0%	34	96	↑ 182.4%
30311	285	298	3.0%	37	112	↑ 202.7%
30342	431	465	4.6%	54	151	↑ 179.6%
30314	277	291	2.9%	14	67	↑ 378.6%
30310	305	324	3.2%	24	113	↑ 370.8%
30308	161	178	1.8%	16	83	↑ 418.8%
30022	278	304	3.0%	40	126	↑ 215.0%
30327	209	222	2.2%	21	96	↑ 357.1%
30004	219	243	2.4%	33	95	↑ 187.9%
30309	307	329	3.3%	42	144	↑ 242.9%
30076	221	235	2.3%	47	82	↑ 74.5%
30291	322	336	3.4%	36	73	↑ 102.8%
30350	217	227	2.3%	61	48	↓ 21.3%
30075	278	292	2.9%	54	77	↑ 42.6%
30328	244	263	2.6%	33	112	↑ 239.4%
30316	115	131	1.3%	11	56	↑ 409.1%
30312	365	382	3.8%	30	116	↑ 286.7%
30005	133	140	1.4%	23	60	↑ 160.9%
30305	305	327	3.3%	35	139	↑ 297.1%
30306	95	106	1.1%	<10	48	↑ 585.7%
30324	356	388	3.9%	55	178	↑ 223.6%
30337	125	132	1.3%	<10	28	↑ 300.0%
30009	102	108	1.1%	14	35	↑ 150.0%
30313	64	69	0.7%	11	16	↑ 45.5%
30326	78	80	0.8%	12	39	↑ 225.0%
30097	69	71	0.7%	10	18	↑ 80.0%
30354	165	172	1.7%	40	56	↑ 40.0%
30303	75	78	0.8%	<10	31	↑ 342.9%
30339	74	88	0.9%	<10	60	↑ 1900.0%
30268	36	41	0.4%	<10	12	↑ 500.0%
30307	40	47	0.5%	<10	21	↑ 320.0%
30319	62	64	0.6%	<10	26	↑ 271.4%
30336	41	43	0.4%	11	11	-
30296	16	17	0.2%	<10	<10	-
30363	24	25	0.2%	<10	15	↑ 650.0%
30301	<10	<10	<0.1%	<10	<10	-
30345	20	22	0.2%	<10	10	↑ 400.0%
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	-

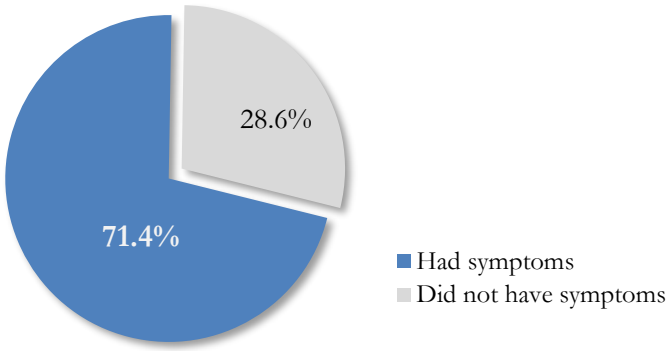
30340	22	22	0.2%	10	<10	↓ 60.0%
30341	24	23	0.2%	<10	<10	-
30358	<10	<10	<0.1%	0	0	-
30374	23	26	0.3%	<10	<10	-
30606	<10	<10	<0.1%	0	0	-
31150	<10	<10	<0.1%	0	0	-
30024	<10	<10	<0.1%	<10	0	-
30098	-	-	-	0	0	-
30334	<10	<10	<0.1%	0	<10	-
30338	31	42	0.4%	<10	29	↑ 1350.0%
Unknown	421	449	4.5%	45	128	-

*[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

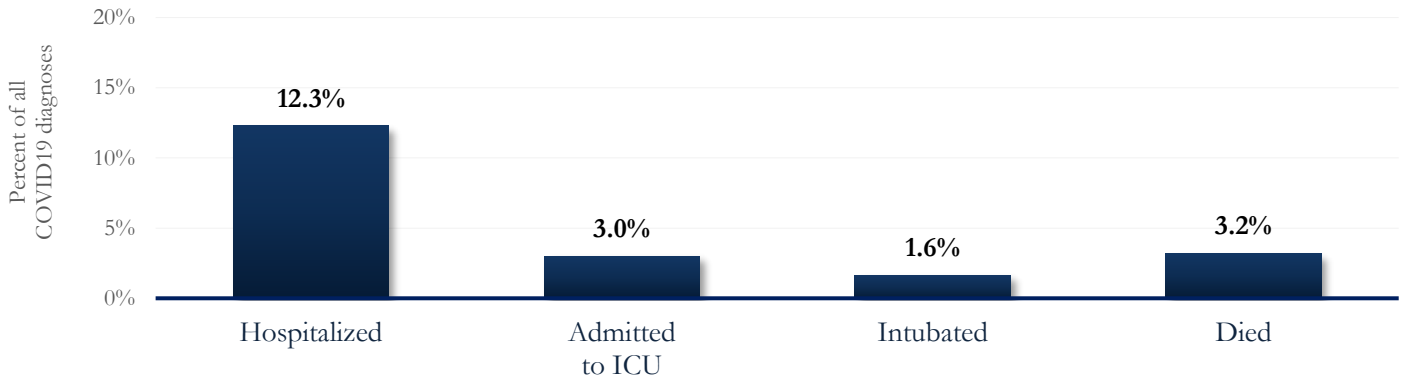
Fig. 6. Proportion Reporting Symptoms in Fulton County



****COVID-19 cases who have been case interviewed or had medical charts reviewed as at 7/10/20 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=10,021) **Count (%)**	**COVID-19 Deaths** (n=320) **Count (%)**
Gender:	Female	4933 (49.2%)	147 (45.9%)
	Male	4585 (45.8%)	173 (54.1%)
	Unknown/Missing	503 (5.0%)	
Age:	0-9	172 (1.7%)	0
	10-19	550 (5.5%)	<10
	20-29	2301 (23.0%)	<10
	30-39	1962 (19.6%)	<10
	40-49	1439 (14.4%)	<10
	50-59	1338 (13.4%)	22 (6.9%)
	60-69	996 (9.9%)	60 (18.8%)
	≥70	1236 (12.3%)	223 (69.7%)
	Unknown/Missing	27 (0.3%)	0
Race:	Asian, NH	145 (1.4%)	<10
	Black, NH	3959 (39.5%)	233 (72.8%)
	White, NH	1651 (16.5%)	69 (21.6%)
	Hispanic	934 (9.3%)	11 (3.4%)
	Other, NH	274 (2.7%)	<10
	Unknown/Missing	3058 (30.5%)	<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)

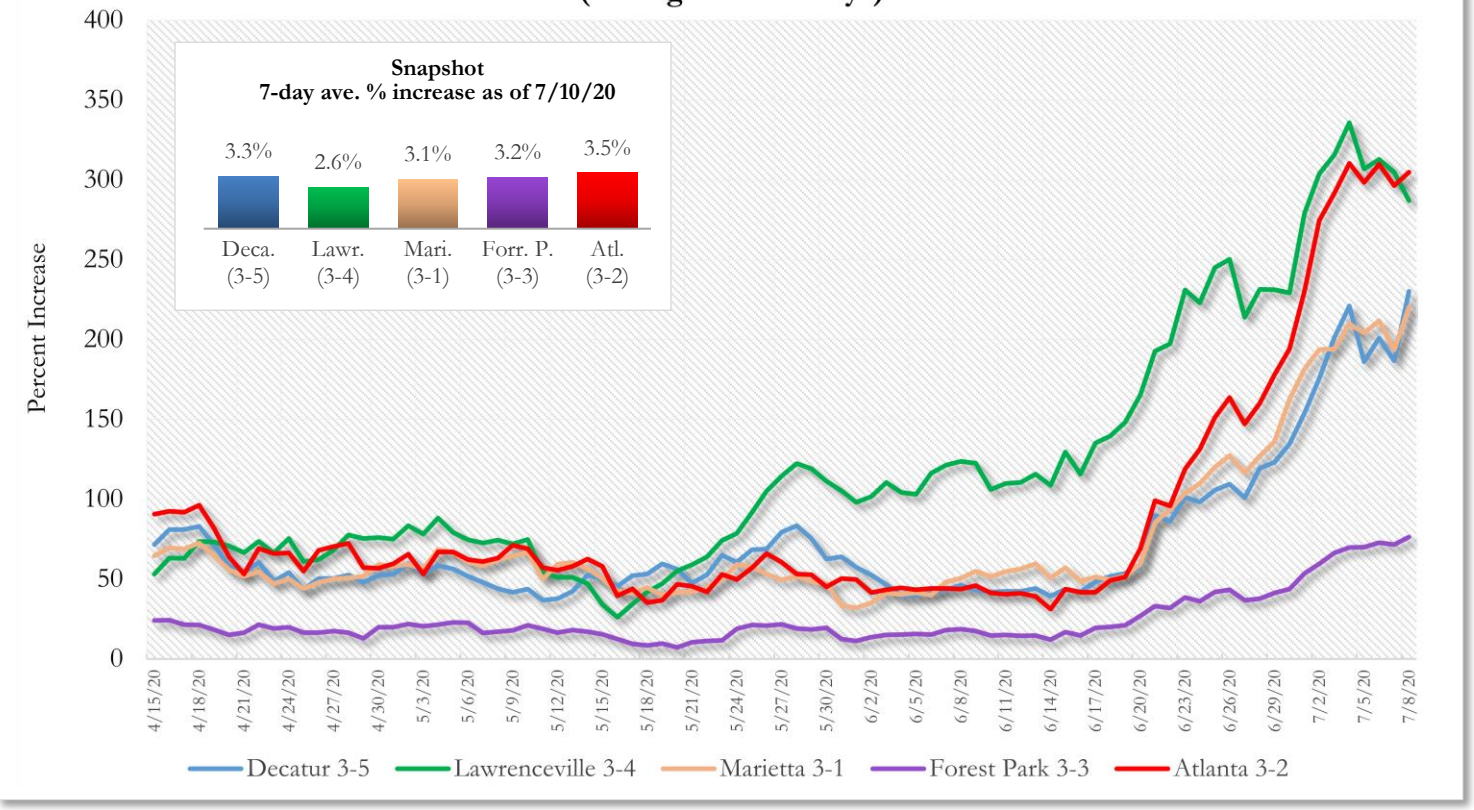
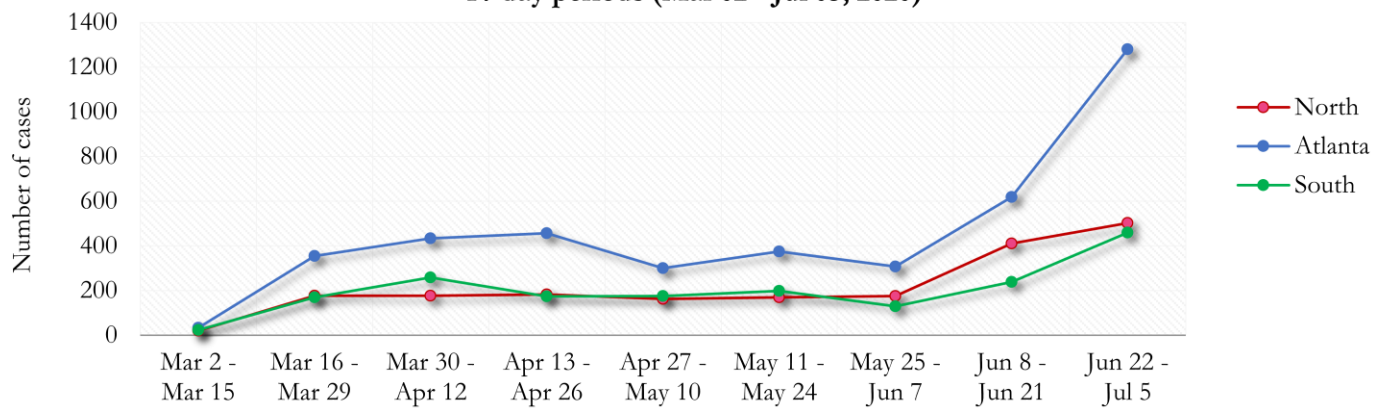


Fig. 9. Trends in Geographic distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)



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)

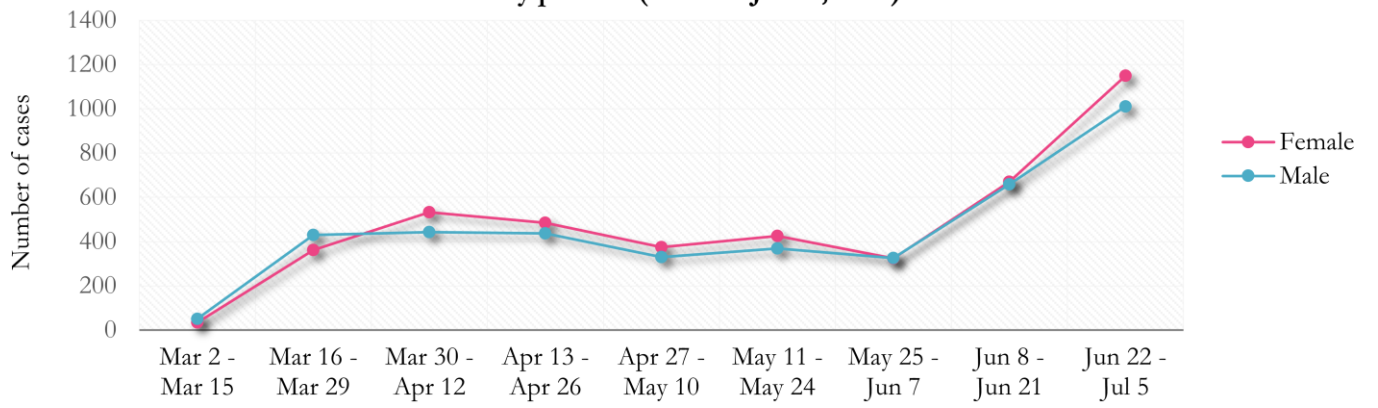
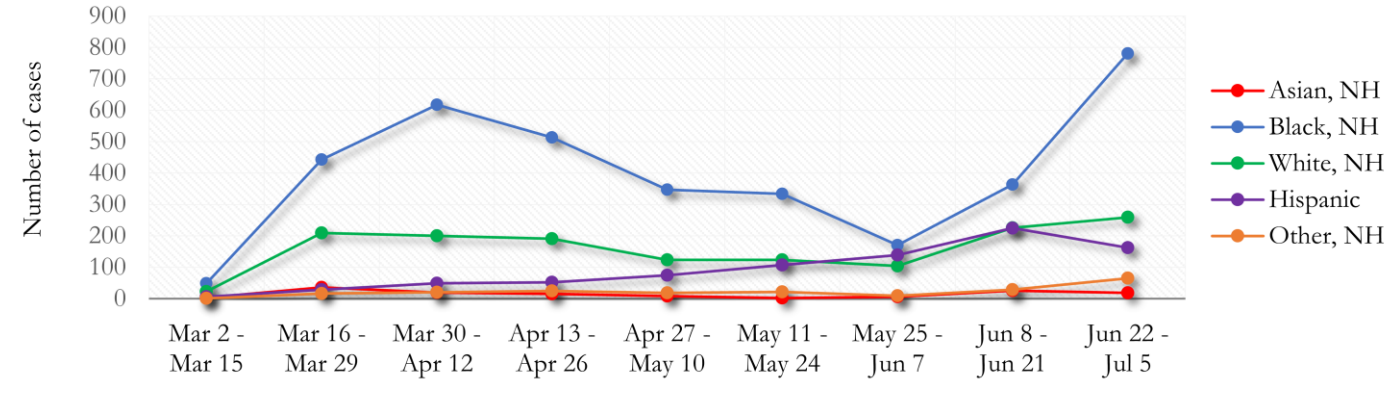


Fig. 11. Trends in Racial Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)



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)

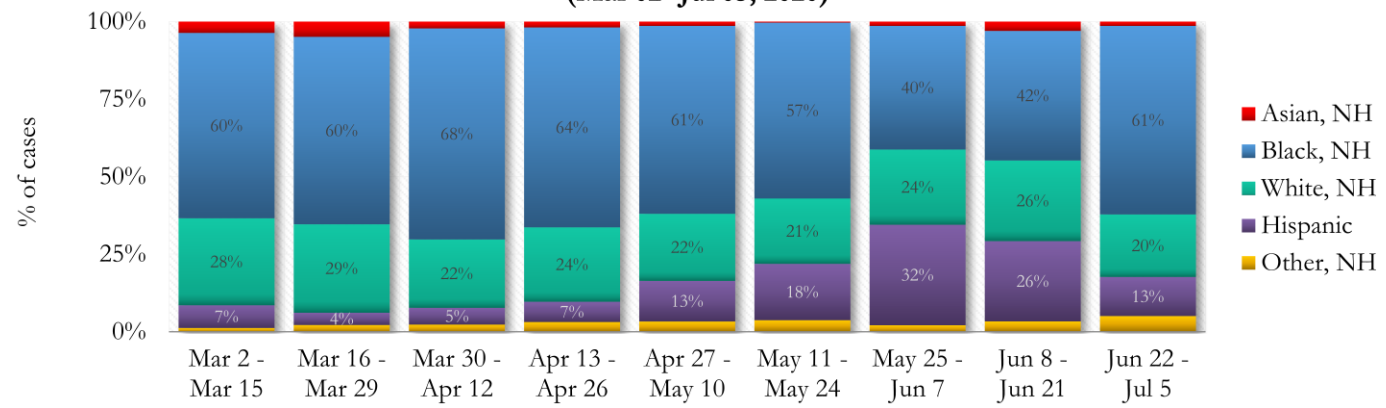
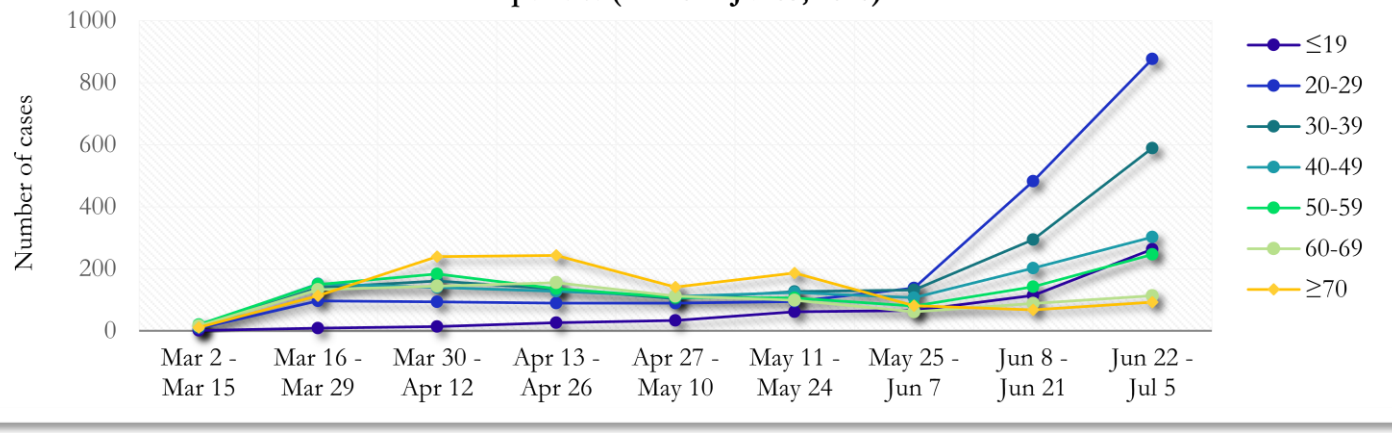


Fig. 13. Trends in Age Distribution of COVID -19 Diagnoses in Fulton County by 14-day periods (Mar 02 - Jul 05, 2020)



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)

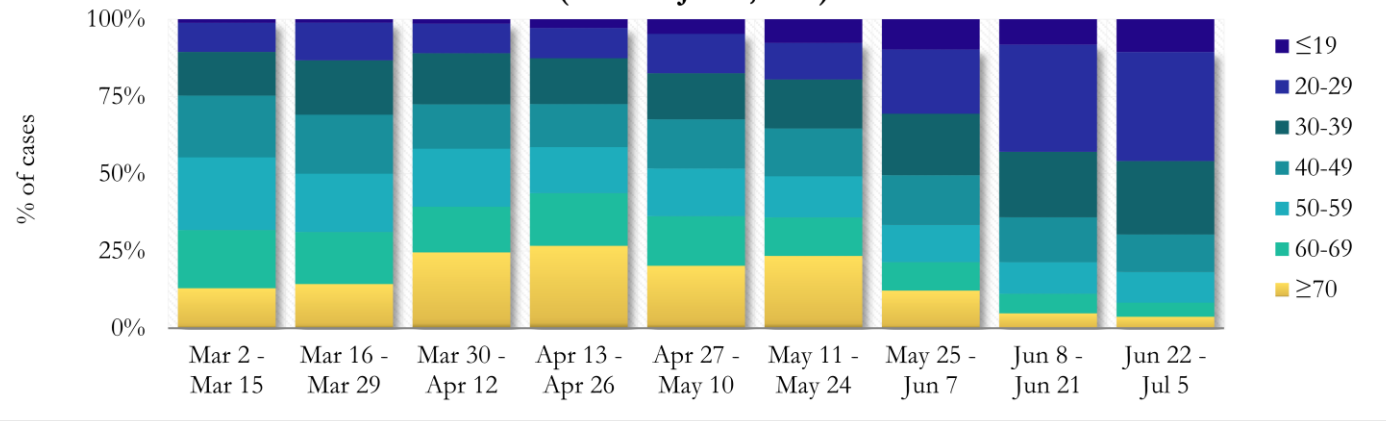
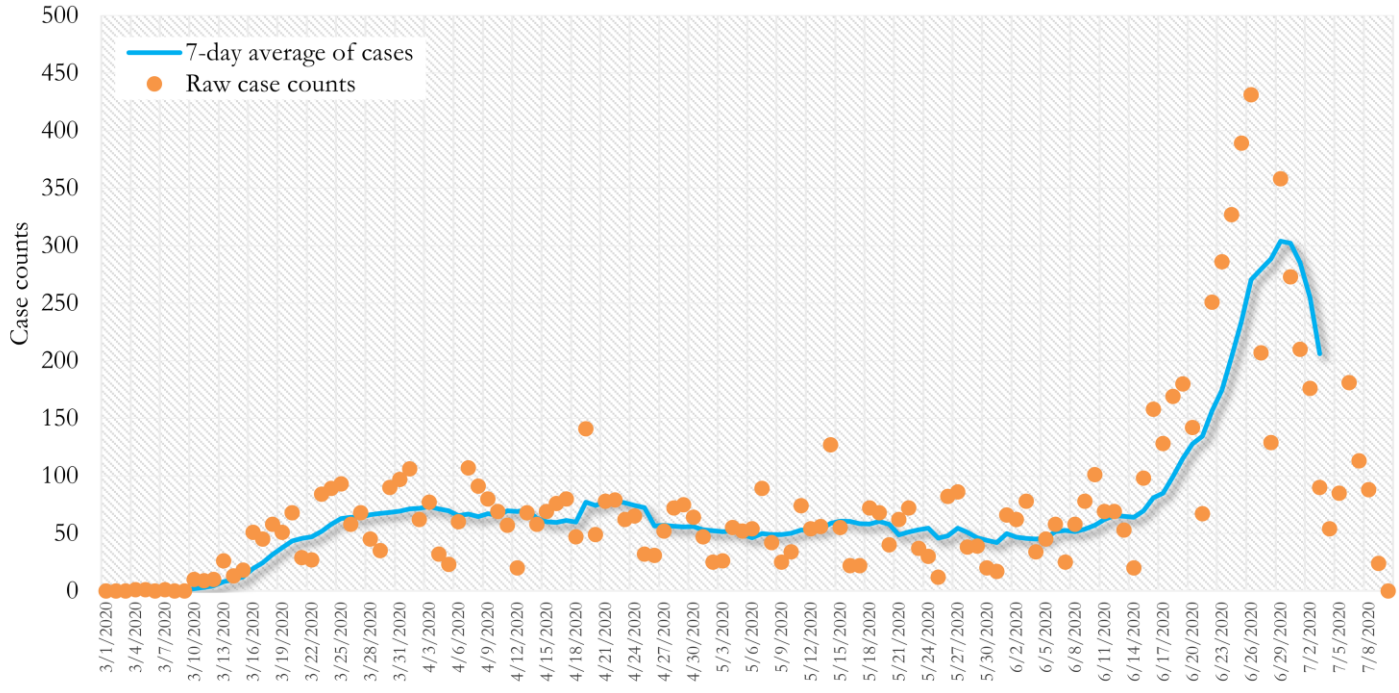
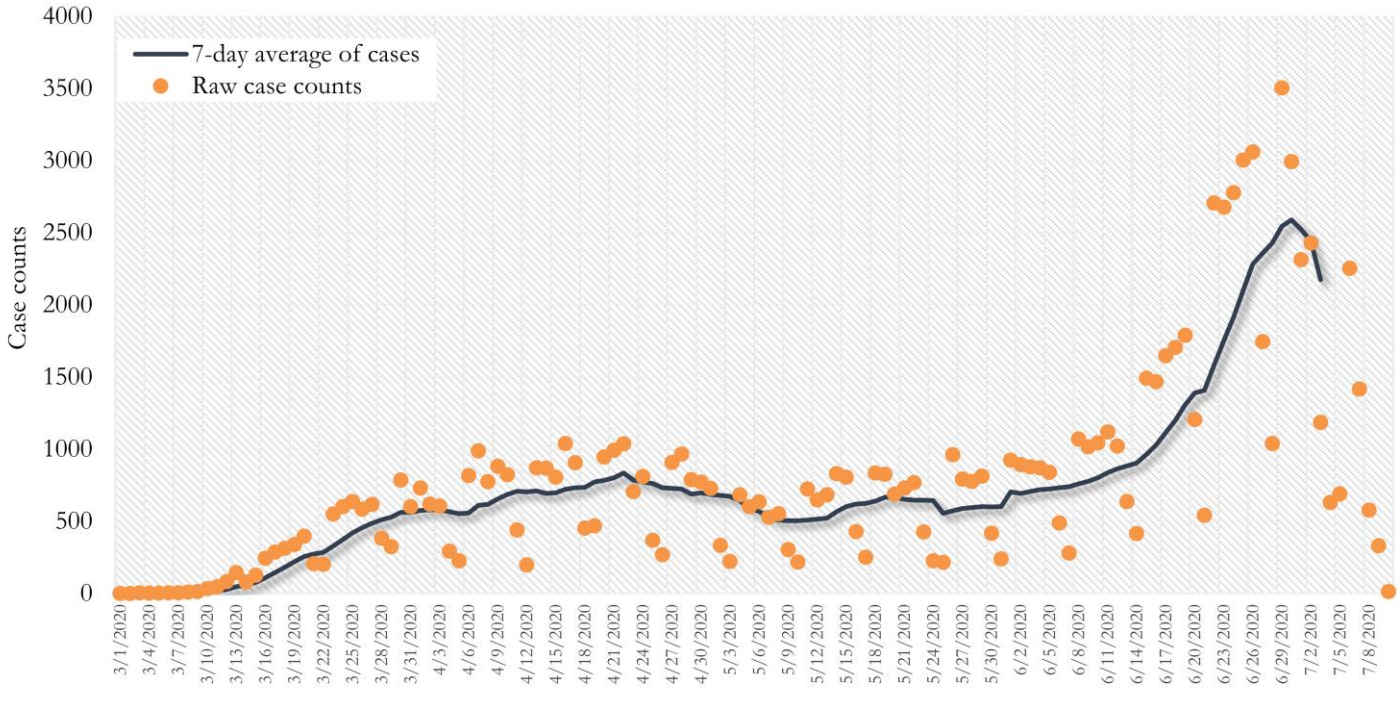


Fig. 15. New COVID-19 Cases in Fulton County Daily (Averaged over 7 days)



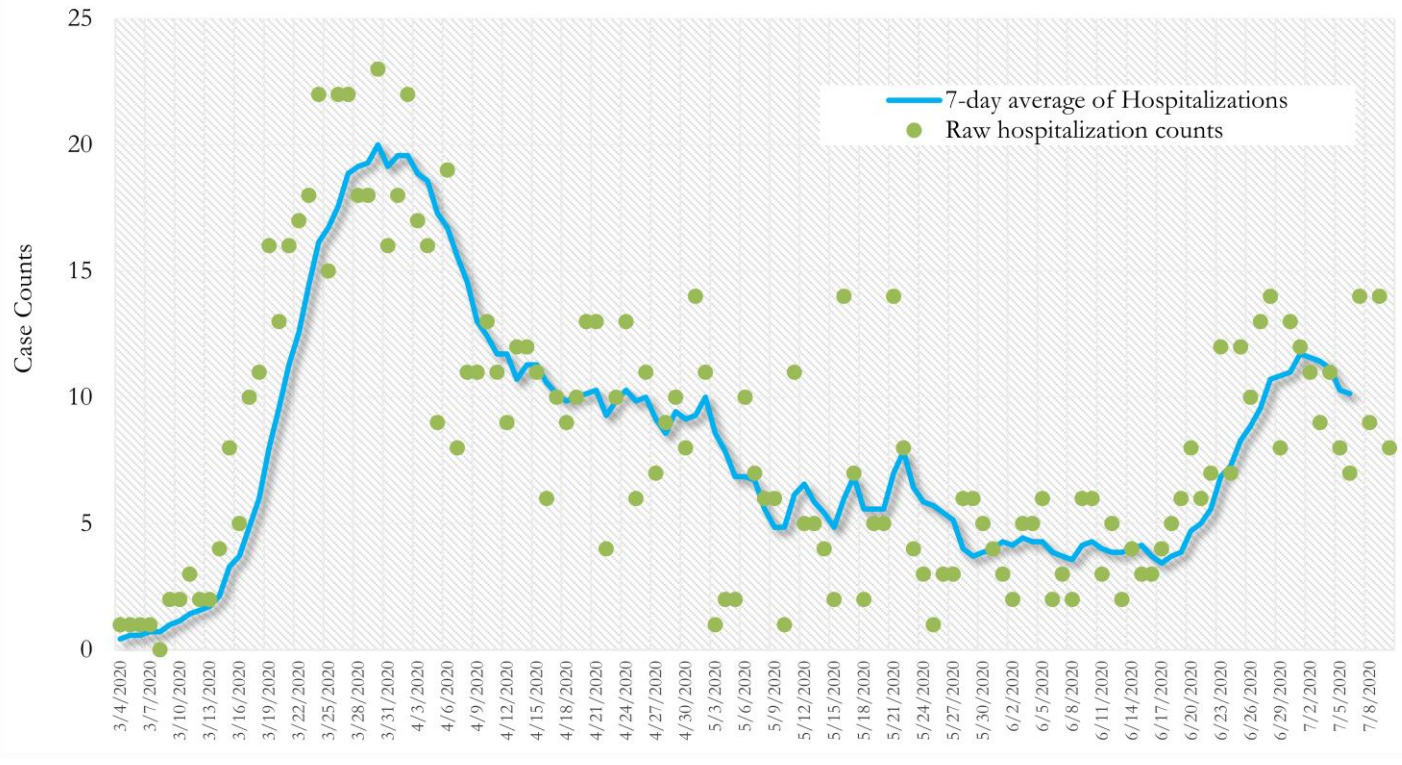
**Date of collection of first positive sample used (report creation date used where sample collection date is missing).*

Fig. 16. New COVID-19 Cases in Georgia State Daily (Averaged over 7 days)



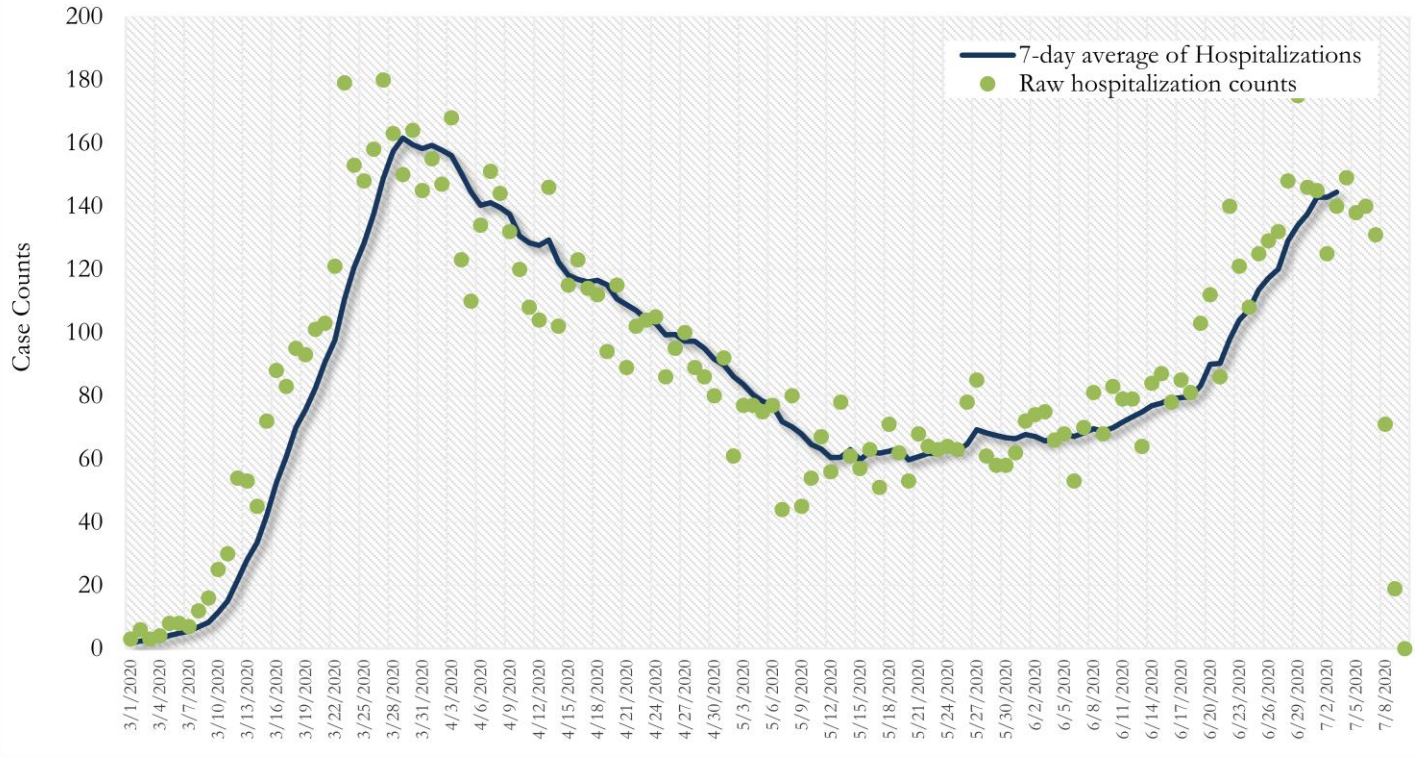
**Date of collection of first positive sample used (report creation date used where sample collection date is missing).*

Fig. 17. COVID-19 Hospitalizations in Fulton County Daily (Averaged over 7 days)



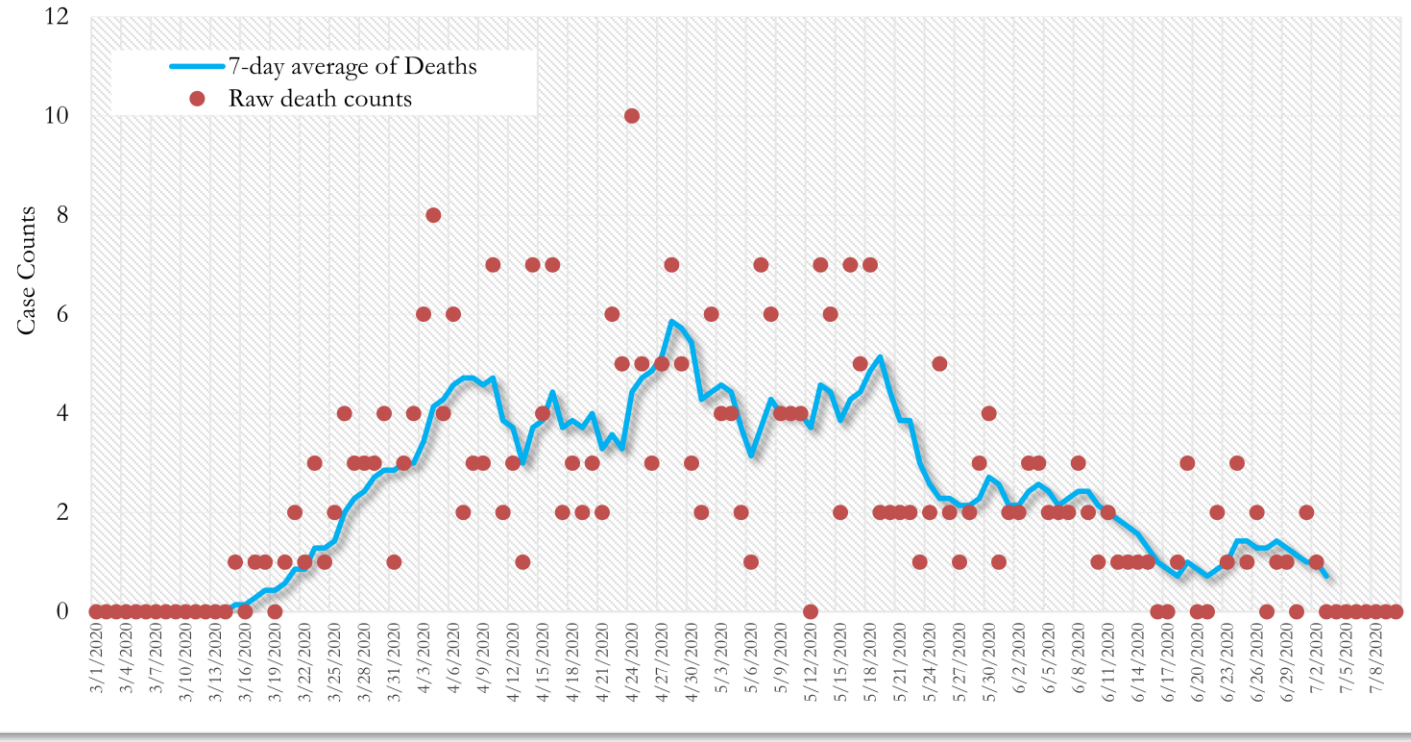
**Reported date of hospital admission used.*

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



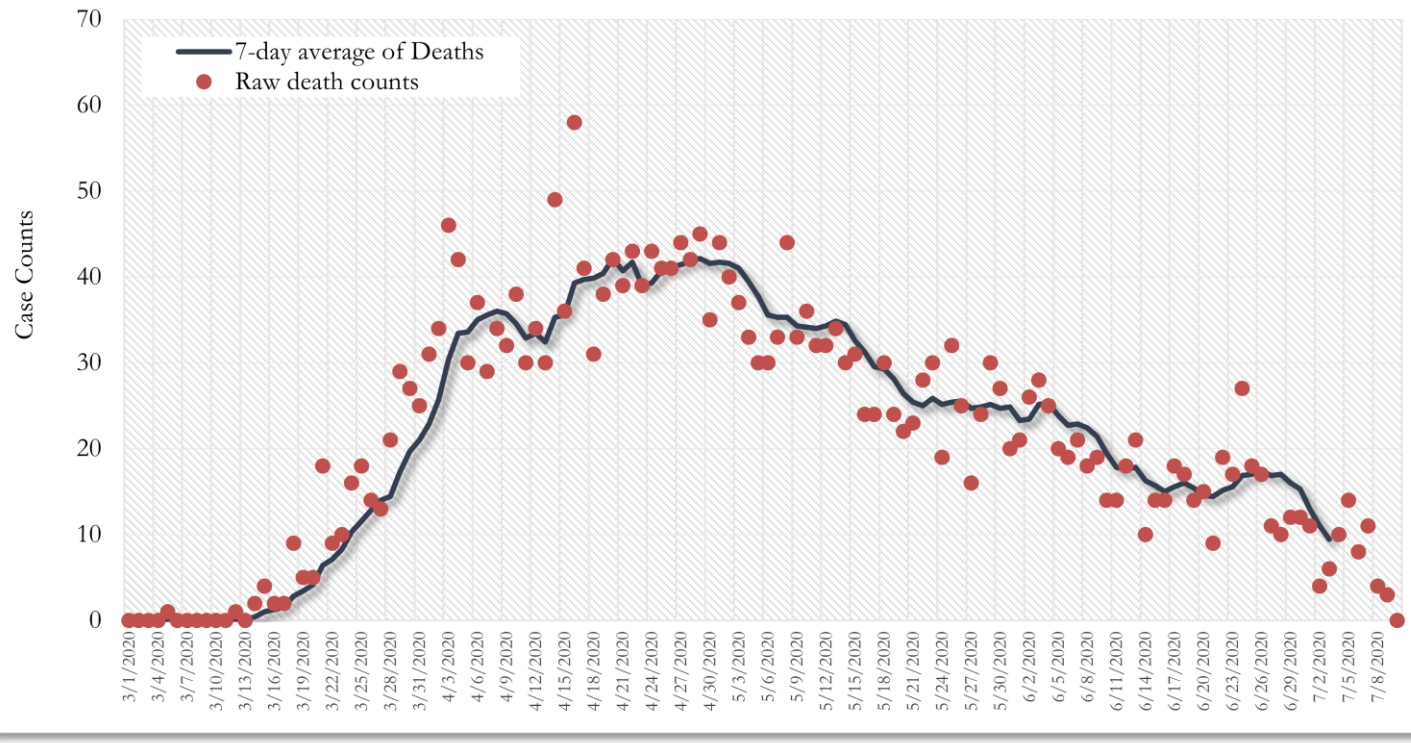
** Reported date of hospital admission used.*

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)

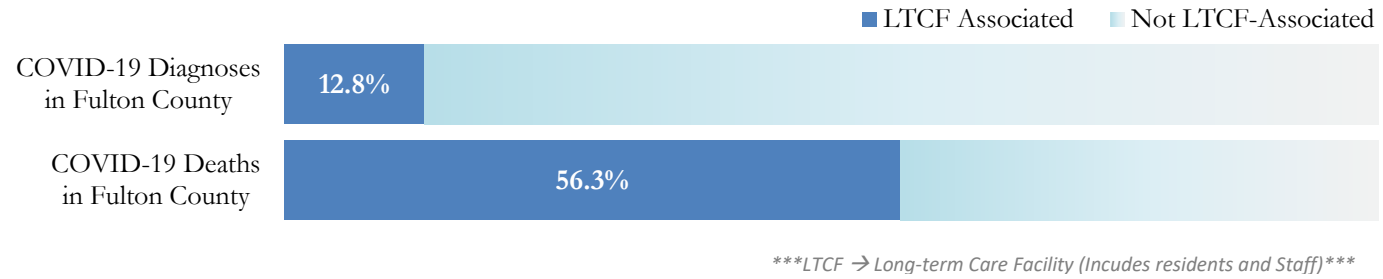


** Reported date of death used.*

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

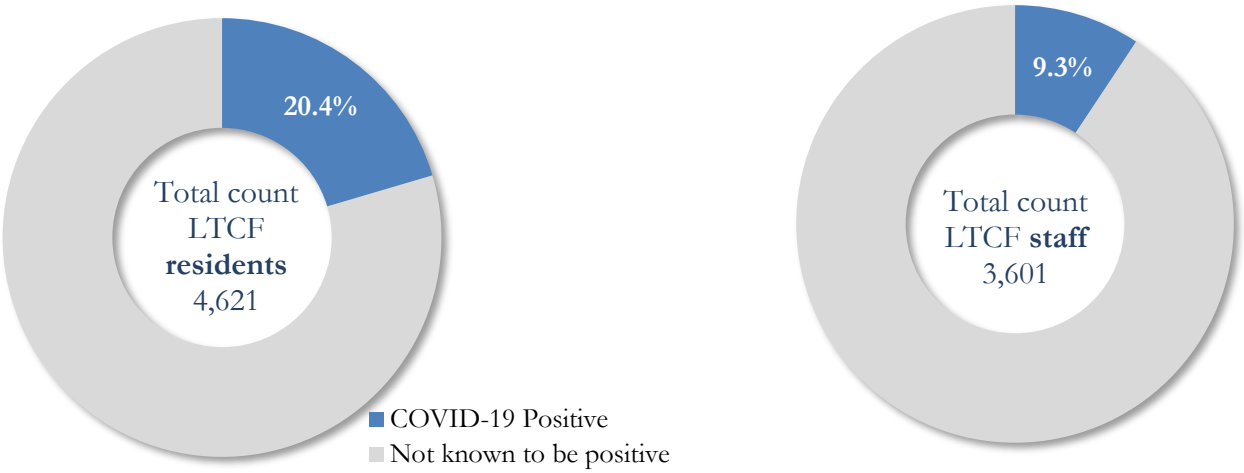
Fig. 21. COVID-19 Diagnoses and Deaths in Fulton County Associated with Long-Term Care Facilities



****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=3,601)		
	Cases	**Hospitalizations**	**Deaths**	**Cases**	**Hospitalizations**	**Deaths**
Average (count per fac.)[1]	17	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]**	**336 (9.3%)[a]**	**27 (8.0)[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.