A joint collaboration between Stark County Public Health Agencies:

Alliance City Health Department | Canton City Public Health
Massillon City Health Department | Stark County Health Department

Stark County, Ohio

April 15, 2020 Epi Report

Background from www.cdc.gov: Coronavirus disease 2019 (COVID-19) is a respiratory illness that can spread from person to person. The virus that causes COVID-19 is a novel coronavirus that was first identified during an investigation into an outbreak in Wuhan, China.
Patients with COVID-19 have had mild to severe respiratory illness with symptoms of:

- Fever
- Cough
- Shortness of breath

All data contained is preliminary and is subject to change as more information is reported to Ohio Department of Health (ODH). Data presented in this document is based on data as of 4.15.2020. Cases from previous days are likely to change as more information is entered.

Counts and rates are based on date of illness onset. If onset date is unknown, the earliest known date is utilized.

Any rates based on counts less than 10 are considered unreliable and caution should be exercised when interpreting. Due to testing restrictions, data may be skewed. Report compiled by Canton City Public Health.

For questions regarding this report, please contact:

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Data is sourced from: coronavirus.ohio.gov, ODH data warehouse, and census.gov. “These data were provided by the Ohio Department of Health. The Department specifically disclaims responsibility for any analyses, interpretations or conclusions.”

Stark County Epi Situational Report - COVID-19
Table 1 as of: 04/15/2020 2:00PM

Next report scheduled: 4/17/2020

Cases Reported to Stark LHDs		
Data as of 04.15.2020 1400		
Positive/Confirmed	173	
Hospitalized	49	28.32%
ICU Admissions	14	8.09%
Deaths	17	9.83%

Cases Reported to ODH*		
Data as of 04.15.2020 1400		
Positive/Confirmed	7628	
Hospitalized	2234	29.29%
ICU Admissions	677	8.88%
Deaths	346	4.54%

Descriptive Statistics for Stark County Confirmed Cases

Gender		
Male	71	41.04%
Female	102	58.96%
Total	173	

Age Range (in Years)			
16	to	97	56.5
Min		*Max*	*Median*

Race				
	White	Black	Other	Unknown
Count	82	10	20	61
%	47%	6%	12%	35%

Ethnicity			
	Hispanic	Non-Hisp	Unknown
Count	1	69	103
%	0.6%	39.9%	59.5%

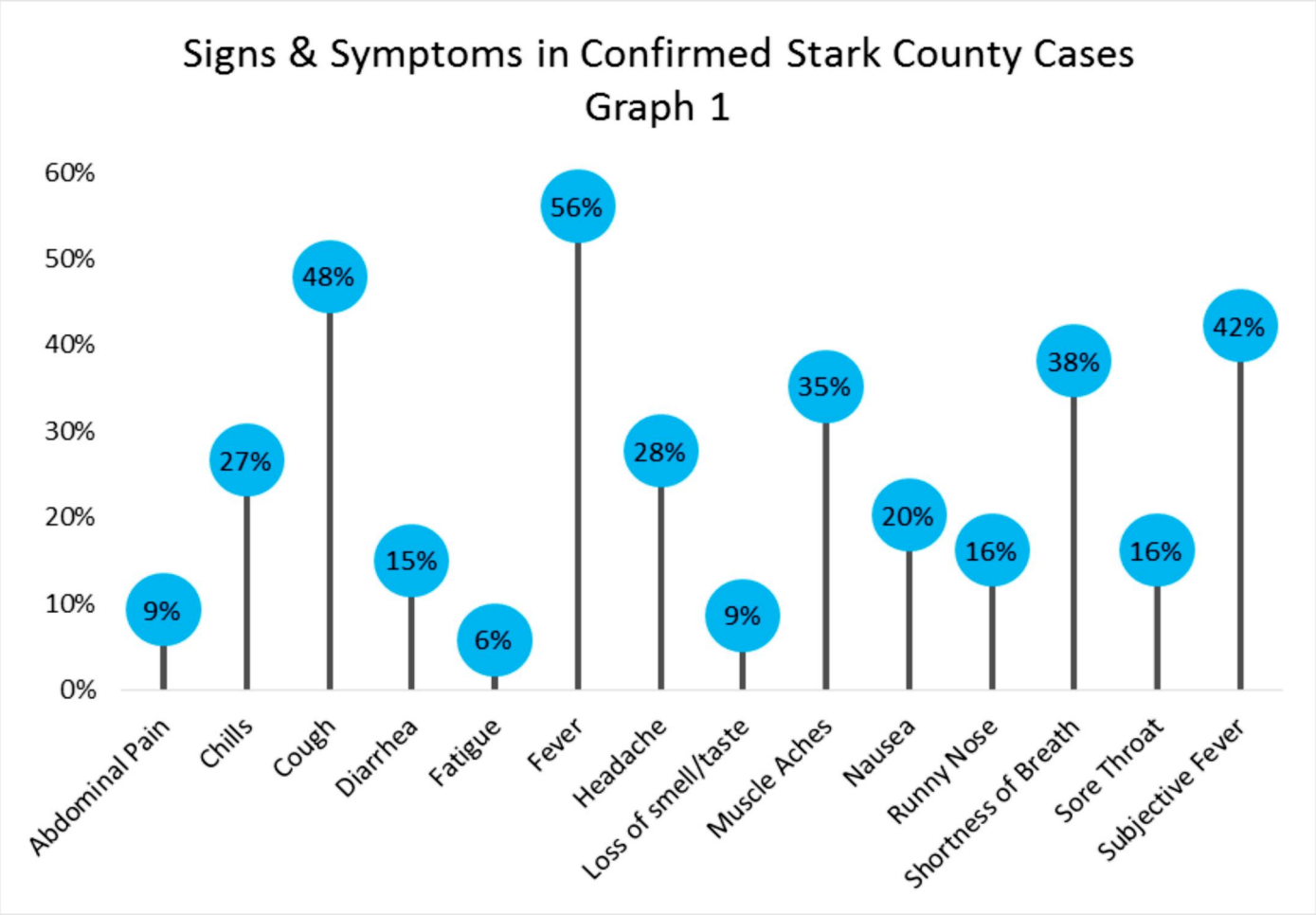
Illness Information for Stark County Confirmed Cases

Illness Onset Date or Earliest Known Date
2/25/2020 through 4/13/2020

Pre-existing Conditions		
Yes	120	69%
No	53	31%

Hospitalized		
Yes	49	28%
No	82	47%
Not reported	42	24%

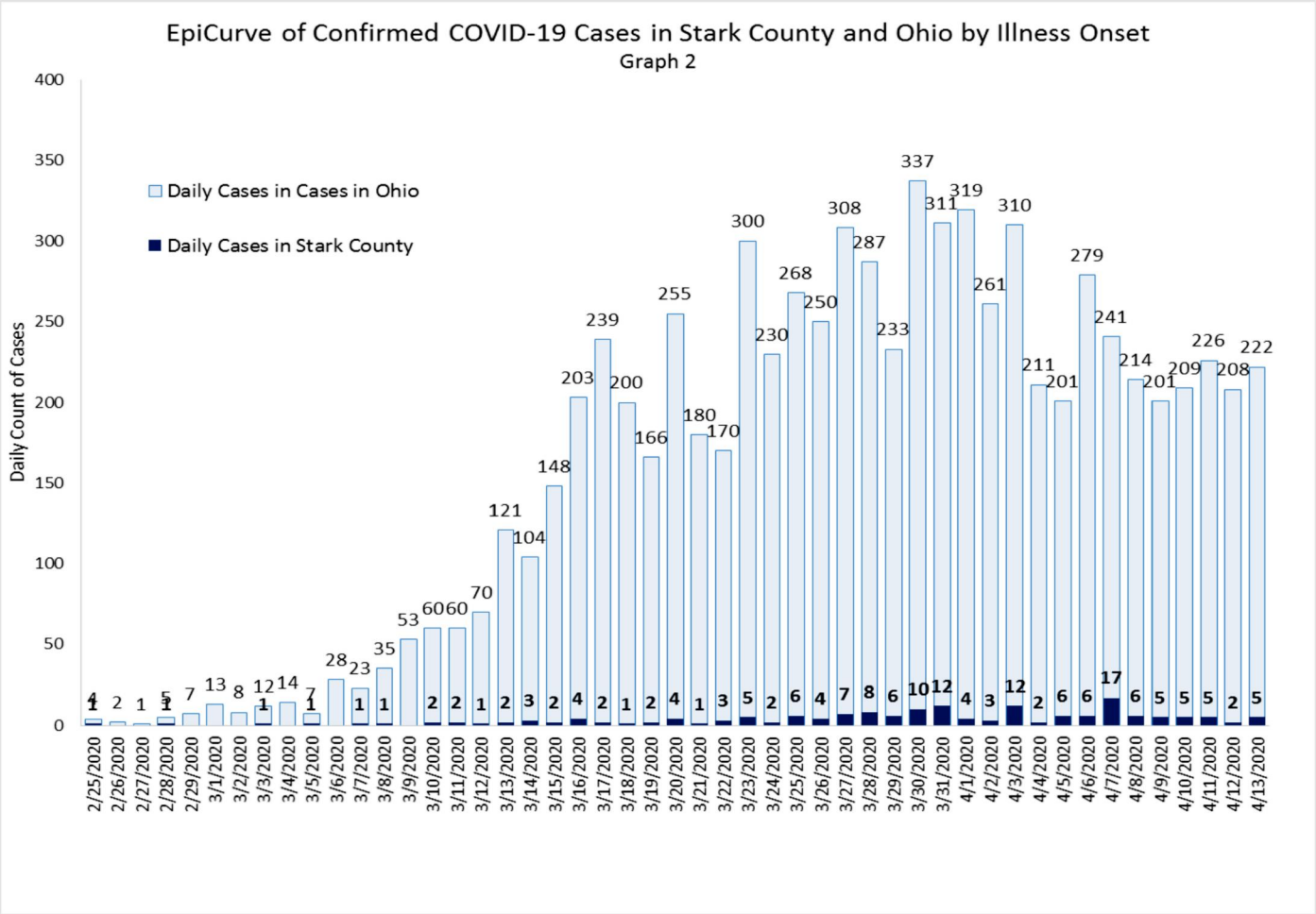
If hospitalized, in ICU?		
Yes	14	29%
No	35	71%



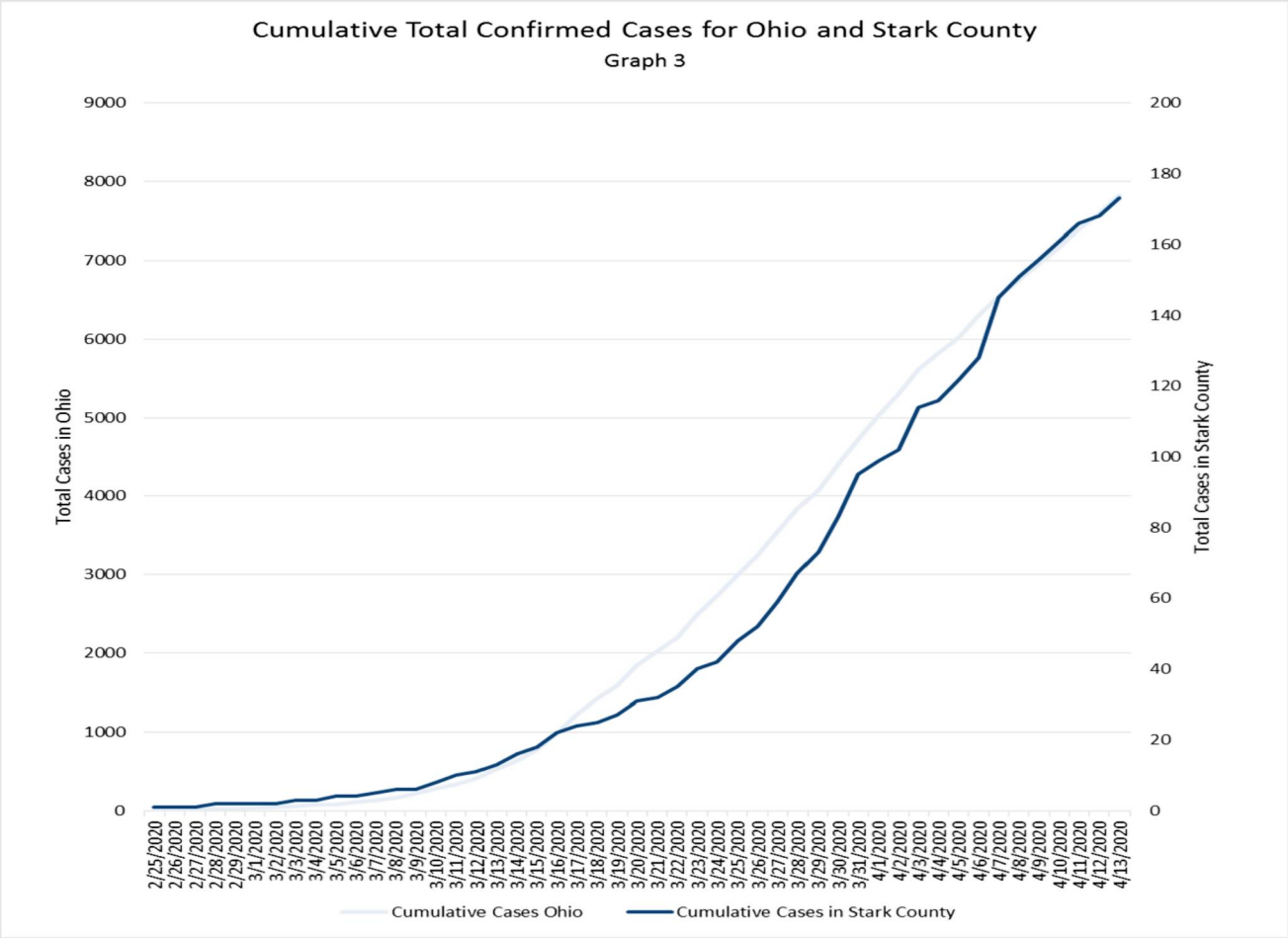
Signs/Symptoms Reported by Cases			
Table 2			
	Yes	No	% Yes
Abdominal Pain	16	68	9.2%
Chills	46	31	26.6%
Cough	83	20	48.0%
Diarrhea	26	56	15.0%
Fatigue	10	0	5.8%
Fever	97	25	56.1%
Headache	48	34	27.7%
Loss of smell/taste	15	0	8.7%
Muscle Aches	61	24	35.3%
Nausea	35	51	20.2%
Runny Nose	28	48	16.2%
Shortness of Breath	66	33	38.2%
Sore Throat	28	50	16.2%
Subjective Fever	73	24	42.2%

Graph 1 shows the incidence of signs and symptoms reported in confirmed cases of COVID-19 in Stark County. Two symptoms that are similar are subjective fever where in a patient felt feverish and fever in which is defined as a fever of >100.4F (38C). Additional symptoms may be added in the future as prevalence increases.

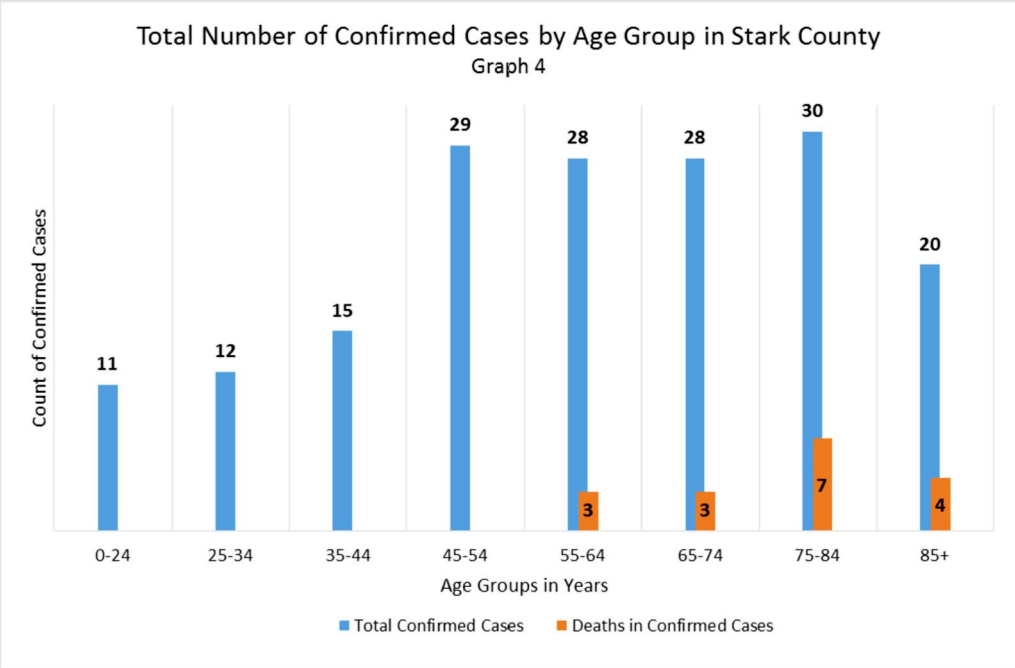
Table 2 is a count of known symptoms and number of cases in which those symptoms appear. Due to missing information, totals may not equal the total count of cases. Symptoms are listed in alphabetical order.



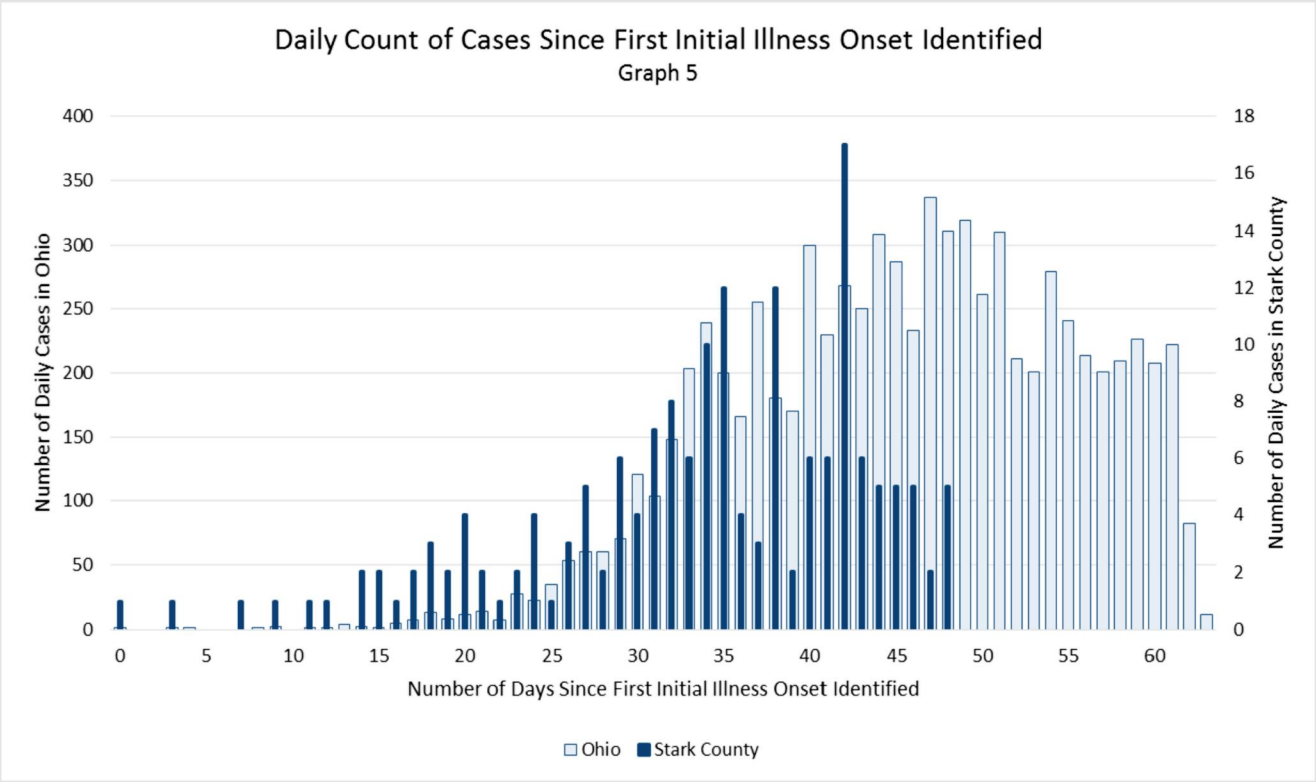
Graph 2 shows the EpiCurve which displays the total number of laboratory-confirmed cases per day, based on the illness onset date for Stark County and Ohio. If the illness onset date is not available, the earliest known date is utilized, which could include the date the specimen was collected, the date the test resulted or the date reported to the local health department. Counts will change as additional information is collected. Totals may not equal the totals on Table 1 depending on when data was accessed. Stark County's first confirmed case reported an illness onset date of 2/25/2020, while Ohio had cases prior to 2/25/2020, those are not included.



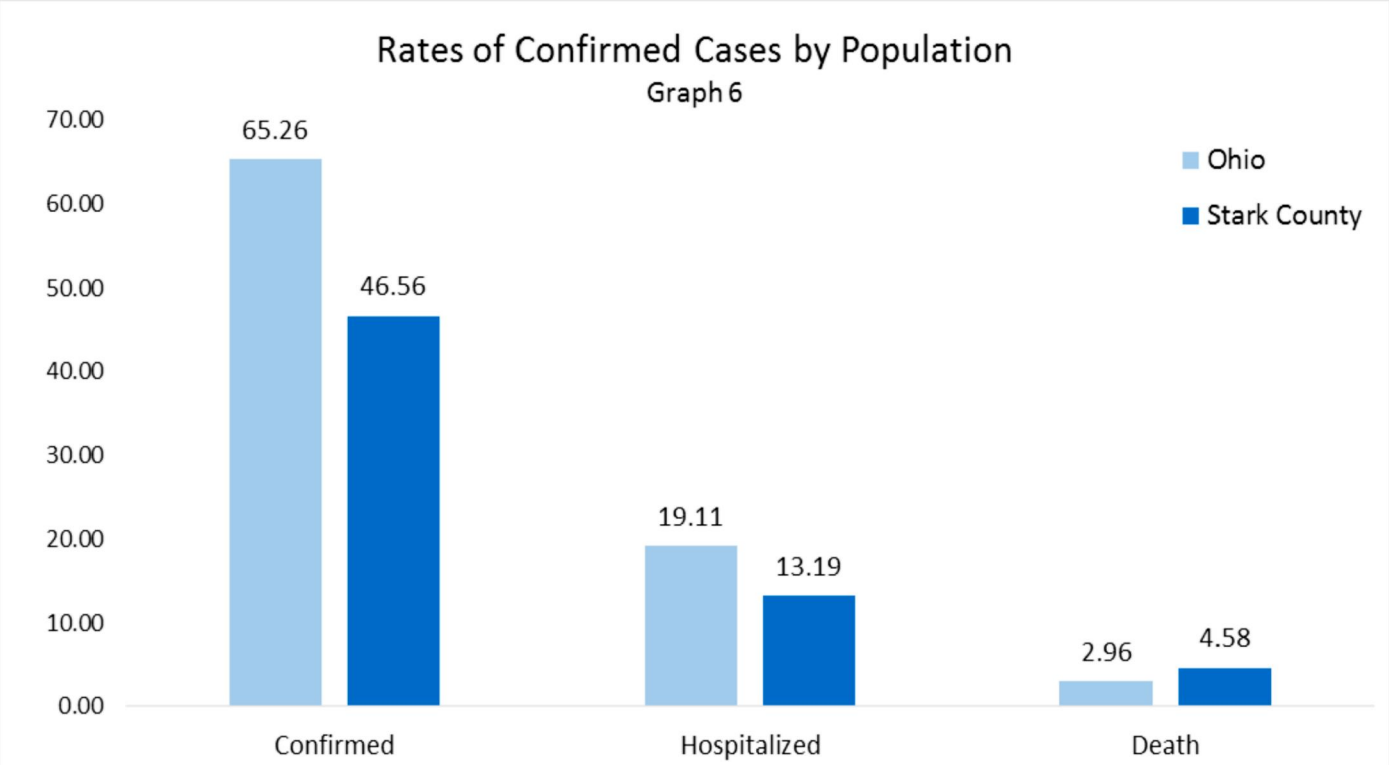
Graph 3 shows the cumulative cases in Ohio (left side/primary axis) and Stark County (right side/secondary axis) by date. The timeline begins with 2/25/2020 due to this date being the earliest illness onset date reported by a laboratory-confirmed case in Stark County.



Graph 4 shows the total number of confirmed cases and deaths of confirmed cases by age group. Due to low numbers in Stark County, the age groups are different than what is reported on a state level. Age groups may be broken down further as new cases emerge.



Graph 5 is based on number of days that have passed since the date of illness onset was reported by the first laboratory-confirmed case in Stark County and Ohio (Day 0). For Ohio, the first date of illness onset reported by a laboratory-confirmed case is 02/07/2020. For Stark County, the first date of illness onset reported by a laboratory-confirmed case was 02/25/2020. The number for total cases in Ohio is on the left/primary axis with Stark County on the right/secondary axis.

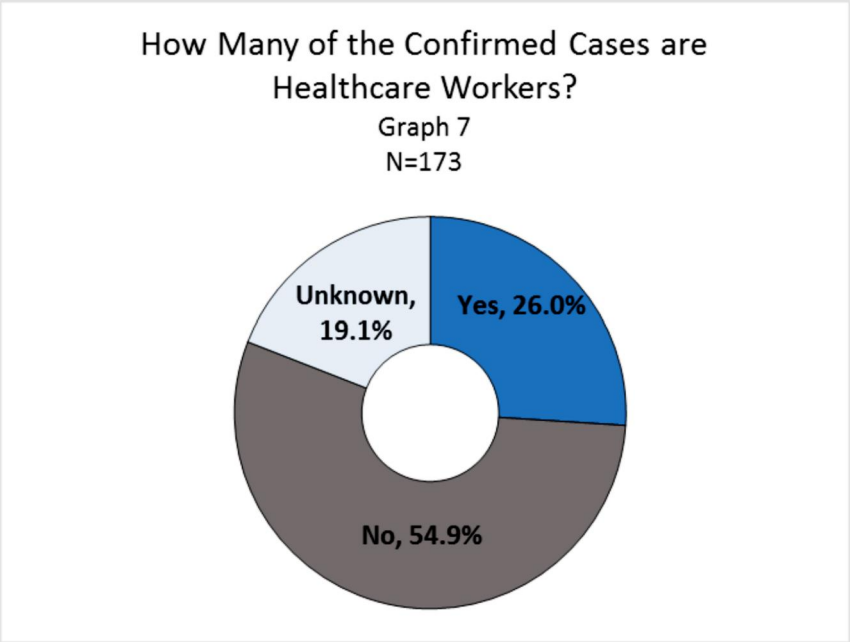


Counts of Cases	Ohio	Stark County
Confirmed	7628	173
Hospitalized	2234	49
Deaths	346	17

Rates based on 2018 population from data.census.gov.
Rates=(count/population)*100000

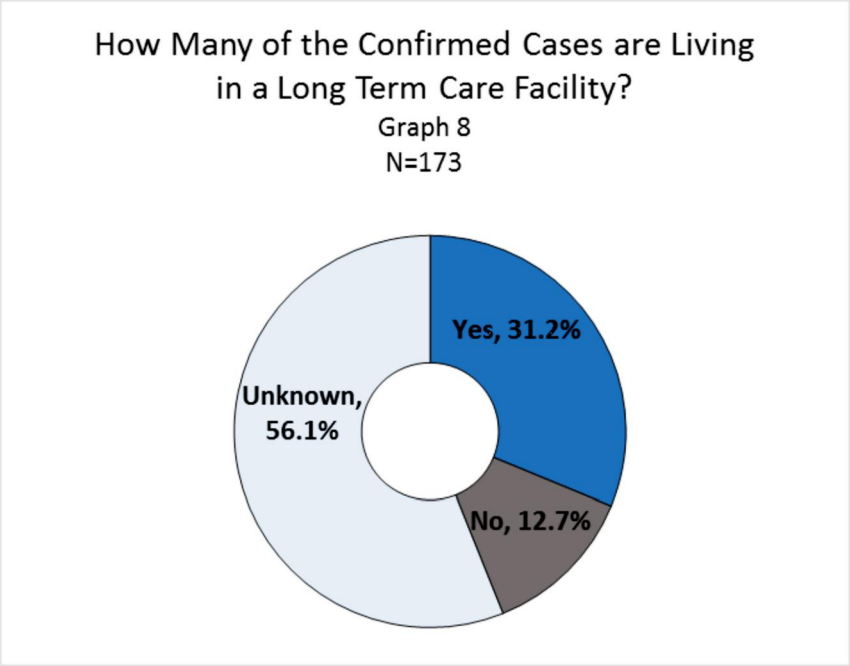
Graph 6 shows the rates dependent on the 2018 population in Ohio and Stark County. This graph works to compare cases in different populations by normalizing the cases per 100,000 persons.

- Ohio's rate of laboratory confirmed cases is 1.4x higher than those in Stark County.
- Ohio's rate of laboratory confirmed cases who require hospitalization is 1.4x higher than Stark County's rate.
- Stark County's rate of death due to COVID-19 complications is 1.5x higher than Ohio's rate.



As we are seeing more a focus on health care workers and long-term care facilities, we are offering some additional information.

Graph 7 shows the breakdown of health care workers. Where you can see that of those with confirmed cases, 54.9% are not health care workers.



Graph 8 looks at the long-term care facilities in Stark County. Of those who have a laboratory-confirmed case of COVID-19, 31.2% of them reside in a long-term care facility.