

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

May 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.

A confirmed case or death is defined by meeting confirmatory laboratory evidence for COVID-19. **A probable case or death** is defined by i) meeting clinical criteria AND epidemiologic evidence with no confirmatory laboratory testing performed for COVID-19; or ii) meeting presumptive laboratory evidence AND either clinical criteria OR epidemiologic evidence; or iii) meeting vital records criteria with no confirmatory laboratory testing performed for COVID19.

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 5.15.2020 12:00pm. Cases from previous days are likely to change as more information is entered. See page 8 for details on testing priorities.

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.

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."

For questions regarding this report, please contact:

Amanda Archer, MPH aarcher@cantonhealth.org

Jessica Boley, RD, LD jboley@cantonhealth.org

Avinash Joseph, MPH JosephA@starkhealth.org



Stark County Epi Situational Report - COVID-19

Table 1 as of: 05/15/2020 2:00PM

Next report scheduled: 5/19/2020

Cases Reported to Stark LHDs		
Data as of 05.15.2020 1200		
Positive/Confirmed	507	
Hospitalized	121	23.87%
ICU Admissions	31	6.11%
Deaths in Confirmed Cases	69	13.61%
Probable Cases	41	
Deaths in Probable Cases	1	

Cases Reported to ODH*		
Data as of 05.15.2020 1400		
Positive/Confirmed	25349	
Hospitalized	4791	18.90%
ICU Admissions	1277	5.04%
Deaths in Confirmed Cases	1431	5.65%
Probable Cases	1605	
Deaths in Probable Cases	150	

Descriptive Statistics for Stark County Confirmed Cases

Gender			
	Confirmed Cases		Deaths
Male	198	39.1%	37
Female	309	60.9%	32
Unknown	0	0.0%	0
Total	507		69

Age Range (in Years)			
16	to	108	62
<i>Min</i>		<i>Max</i>	<i>Median</i>

Race				
	White	Black	Other	Unknown
Count	306	50	32	119
%	60%	10%	6%	23%

Ethnicity			
	Hispanic	Non-Hisp	Unknown
Count	19	305	183
%	4%	60%	36%

Illness Information for Stark County Confirmed Cases

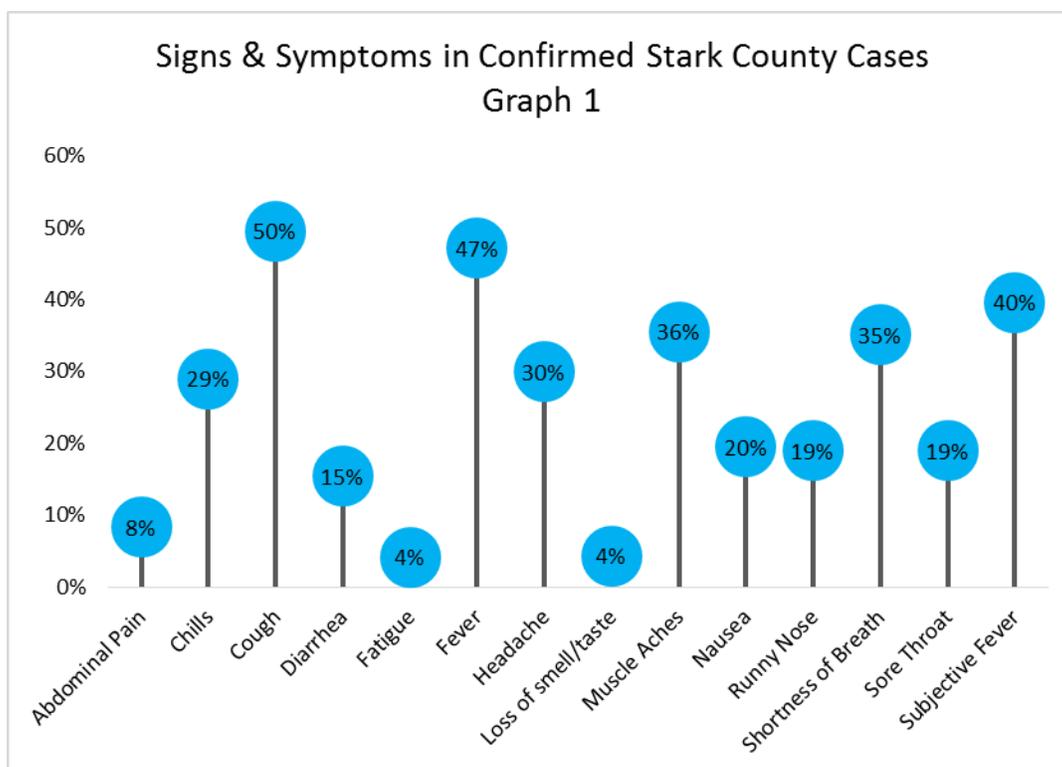
Hospitalized		
Yes	121	24%
No	268	53%
Unknown	3	1%

Pre-existing Conditions		
Yes	248	49%
No	259	51%

If hospitalized, in ICU?		
Yes	31	26%
No	90	74%

Discharged from Hospital		
ICU	19	
Other	46	

Some cases may be discharged due to death.

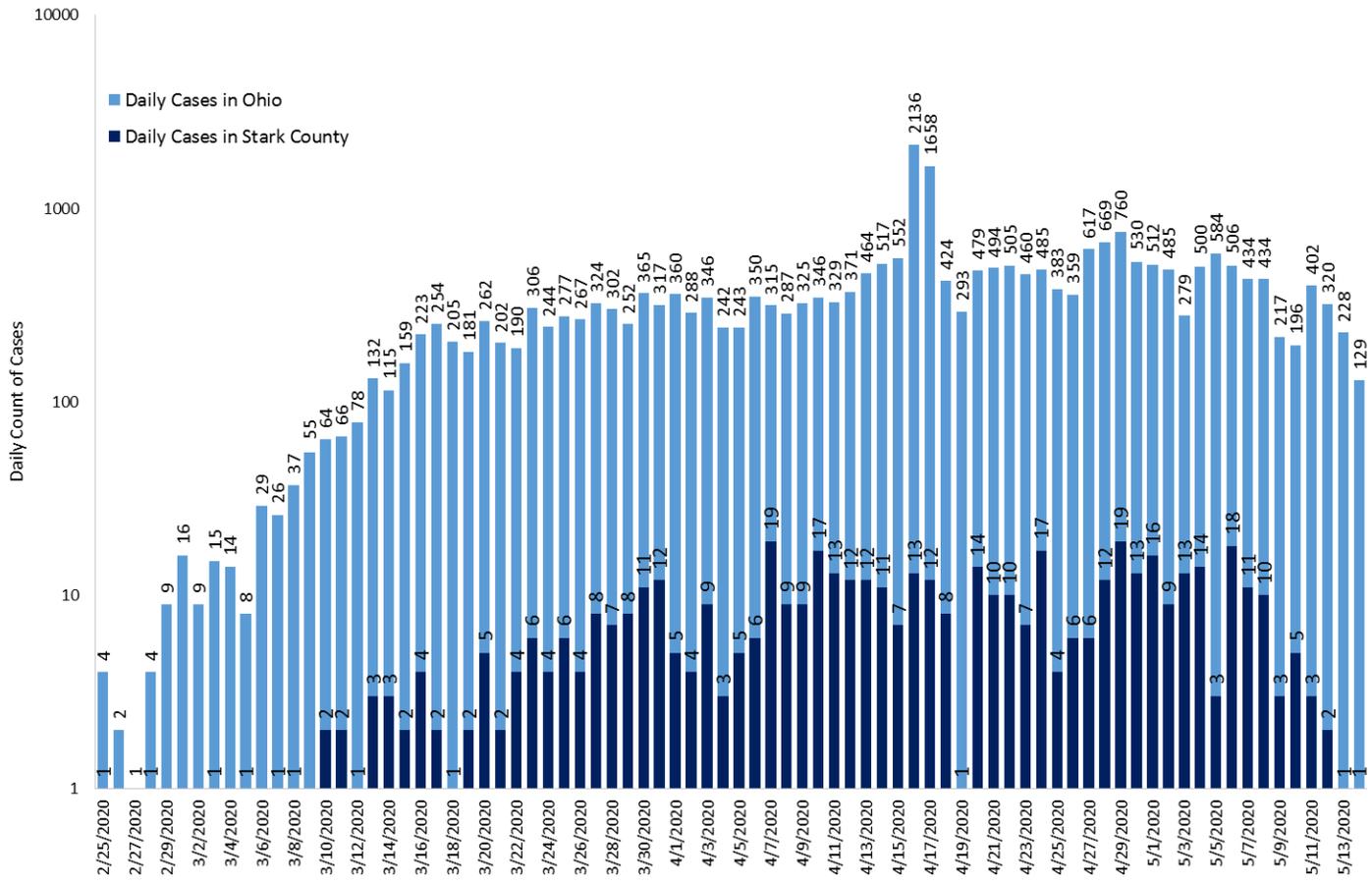


Graph 1 shows the incidence of signs and symptoms reported in confirmed cases of COVID-19 in Stark County. Two symptoms that are similar are subjective fever where in a patient felt feverish and fever in which is defined as a fever of >100.4F (38C). Additional symptoms may be added in the future as prevalence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

Signs/Symptoms Reported by Cases			
Table 2			
	Yes	No	% Yes
Abdominal Pain	42	285	8.3%
Chills	147	173	29.0%
Cough	251	109	49.5%
Diarrhea	78	247	15.4%
Fatigue	21	0	4.1%
Fever	239	152	47.1%
Headache	152	177	30.0%
Loss of smell/taste	22	0	4.3%
Muscle Aches	180	152	35.5%
Nausea	99	236	19.5%
Runny Nose	96	224	18.9%
Shortness of Breath	178	170	35.1%
Sore Throat	96	225	18.9%
Subjective Fever	201	140	39.6%

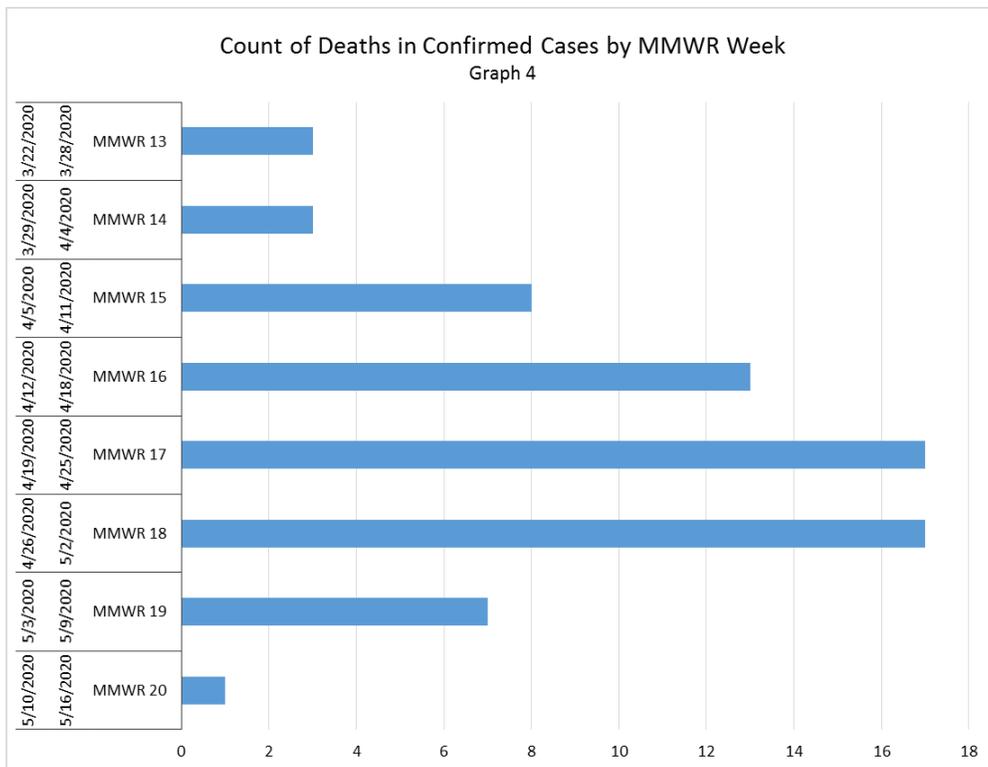
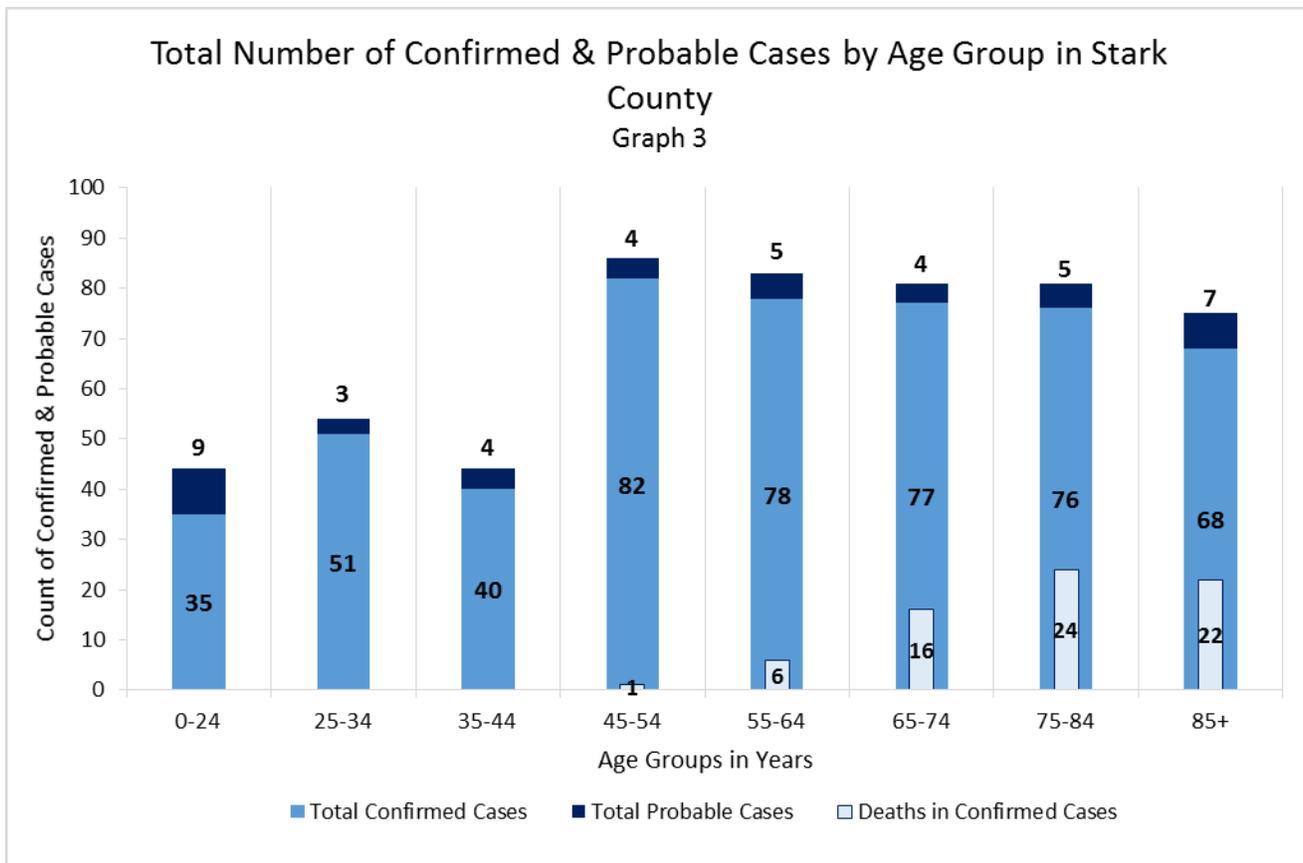
Table 2 is a count of known symptoms and number of cases in which those symptoms appear. Due to missing information, totals may not equal the total count of cases. Symptoms are listed in alphabetical order.

EpiCurve of Confirmed COVID-19 Cases in Stark County by Illness Onset Graph 2



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 of the test results 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.

This graph has changed since the report released on 4/17/2020: Due to a large increase in the number of reported cases in Ohio on 4/16 and 4/17, and to anticipate continued transmission and other large increases as facility clusters are identified, a logarithmic scale will be utilized to help visualize any skewness toward large values (daily case counts that are much larger than the bulk of the data).

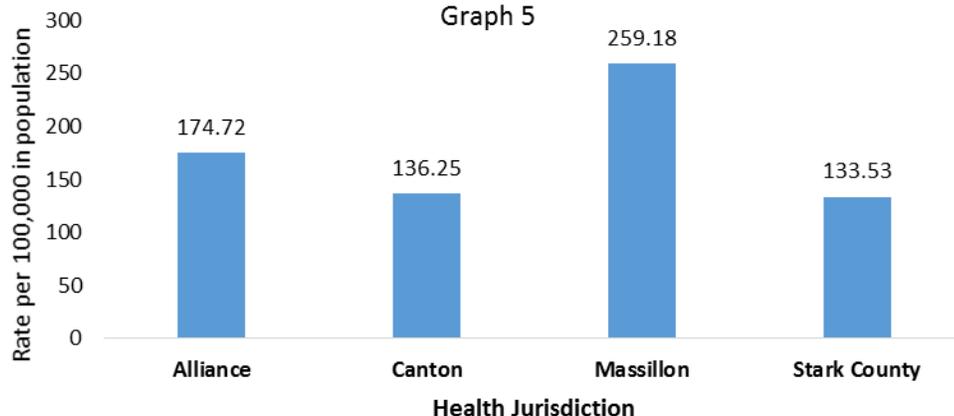


Graph 3 shows the total number of confirmed and probable cases and deaths of confirmed cases by age group. Due to low numbers in Stark County, the age groups are different than what is reported on a state level. Age groups may be broken down further as new cases emerge. Deaths counted are based on only laboratory-confirmed cases and does not include probable cases due to low counts.

Graph 4 is a breakdown of death counts by MMWR (Morbidity and Mortality Weekly Report) week in which the death occurred. MMWR 20 includes only deaths documented as of 2:00pm on 5/15/2020.

Rate of Confirmed and Probable Cases by Health Jurisdiction

Graph 5

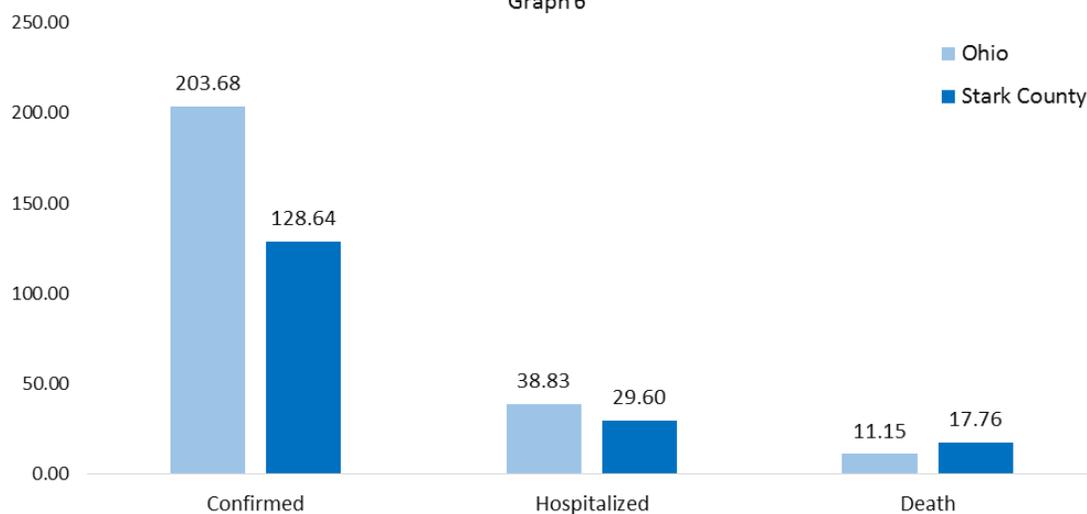


	Probable Cases	Confirmed Cases	Total
Alliance	1	38	39
Canton	12	84	96
Massillon	15	69	84
Stark County	13	316	329

Graph 5 shows the rate of confirmed and probable cases by Stark County jurisdictions. Alliance, Canton and Massillon jurisdictions covers those within those particular city limits. Stark County jurisdiction covers all other areas outside of those three city limits. Rates calculated by 2018 population census data. Rates= (count/population) *100000

Rates of Confirmed Cases by Population

Graph 6



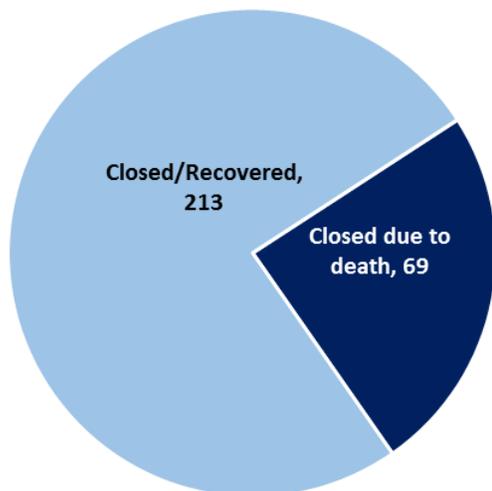
Counts of Cases	Ohio	Stark County
Confirmed	23089	478
Hospitalized	4539	110
Deaths	1303	66

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 1.6x higher than those in Stark County.
- Ohio’s rate of laboratory confirmed cases who require hospitalization is 1.3x higher than Stark County’s rate.
- Stark County’s rate of death due to COVID-19 complications is 1.6x higher than Ohio’s rate.

Closed Confirmed Cases
Graph 7



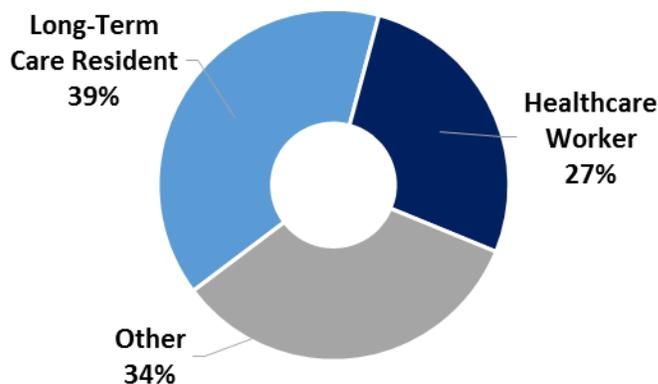
Graph 7 is the counts of cases closed, either due to closed/recovered or closed due to death. Stark County has a total of 282 cases closed of which 69 (24%) are due to death.

Cases can be closed for the following reasons:

- The person passed away.
- Symptoms have resolved in that case.
- The person is no longer being followed by the local health department.

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

Percentage Breakdown of Confirmed Cases
Graph 8



Graph 8* shows a breakdown of categories in confirmed cases. Healthcare workers account for 27% of the confirmed cases while long-term care residents account for 39% of confirmed cases. The remaining 34% do not belong in either of those categories. The percentages are based off of those that were affirmatively indicated to be either a healthcare worker or long-term care resident.

For more information on long-term care facilities including breakdown by facility and by resident/staff, please visit:
<https://coronavirus.ohio.gov/wps/portal/gov/covid-19/dashboards/long-term-care-facilities/cases>
<https://coronavirus.ohio.gov/wps/portal/gov/covid-19/dashboards/long-term-care-facilities/mortality>

*Due to priority testing guidelines both long-term care residents and healthcare workers, are in Priority groups 1, & 2 for testing. Priority categories are listed on page 8 of this report. This may cause numbers for those groups to be skewed.

EPIDEMIOLOGICAL REPORT ON COVID-19

On May 4, 2020, the Ohio Department of Health (ODH) updated COVID-19 testing guidance. This guidance applies to all COVID-19 testing in the State of Ohio. The Centers for Disease Control and Prevention (CDC) has established priority groups for testing. Ohio has modified these groups to meet the specific needs of our state in light of changes in testing availability and evolving knowledge of COVID-19 and its impact on Ohioans.

Priority 1:

Ohioans with symptoms who are:

- Hospitalized.
- Healthcare workers. This includes behavioral health providers, home health workers, nursing facility and assisted living employees, emergency medical technicians (EMTs), housekeepers and others who work in healthcare and congregate living settings.*

Priority 2:

Ohioans with symptoms who are:

- Residents of long-term care/congregate living settings.
- First responders/public health workers/critical infrastructure workers.
- 65 and older.
- Living with underlying conditions.
 - Consideration should be given for testing racial and ethnic minorities with underlying illness, as they are at increased risk for COVID-19 and more severe illness.

Ohioans without symptoms who are:

- Residents or staff directly exposed during an outbreak in long-term care/congregate living settings.

Other Ohioans who are:

- Designated by public health officials to evaluate/manage community outbreaks (such as in workplaces, other large gatherings).

Priority 3:

Ohioans with and without symptoms who are:

- Receiving essential surgeries/procedures, including those that were reassessed after a delay.
- Receiving other medically necessary procedures not requiring an overnight stay/inpatient hospital admission, as defined by their providers' process for COVID-19 testing.

*Congregate living settings are those where more than six people live and where there is a propensity for rapid person-to-person spread of infectious disease. (Some examples are assisted living/nursing centers; Ohio Veterans Homes; residential facilities for mental health/substance use treatment; psychiatric hospitals/group homes; centers/facilities/group homes for people with intellectual disabilities; homeless and domestic violence shelters; youth detention centers; prisons; and jails.)