



Data Analysis of COVID-19 Deaths in Ionia County

(Cases from 03/01/2020 – 01/31/2022)

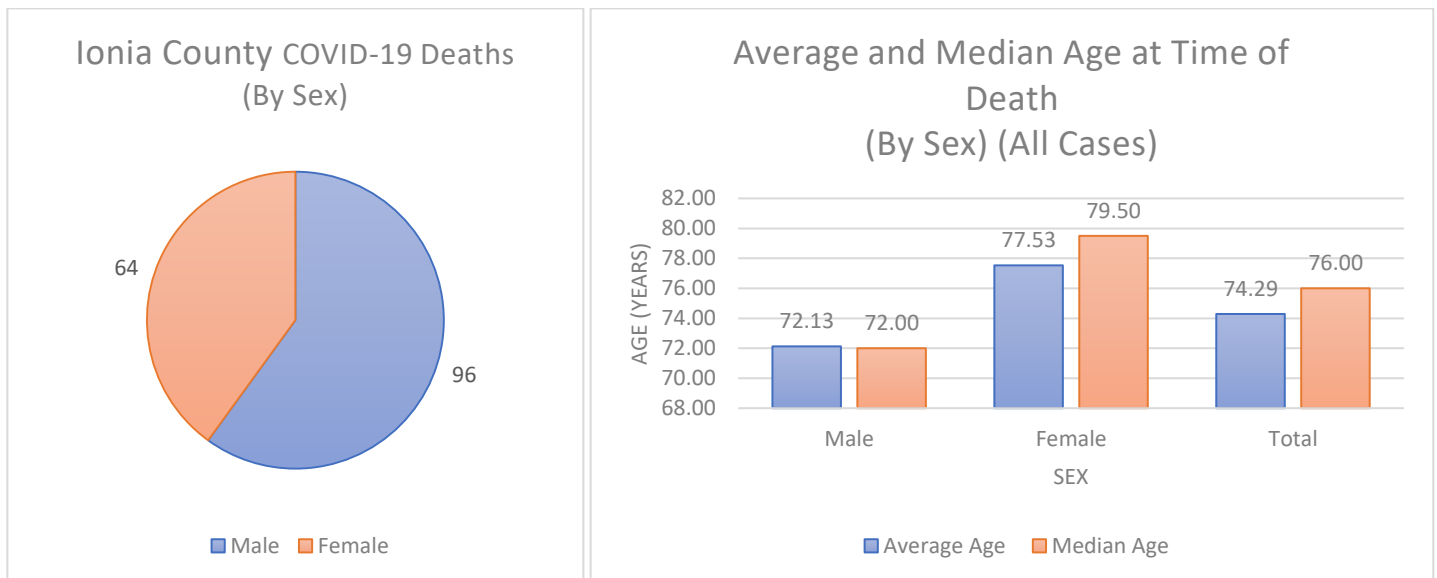
Overview

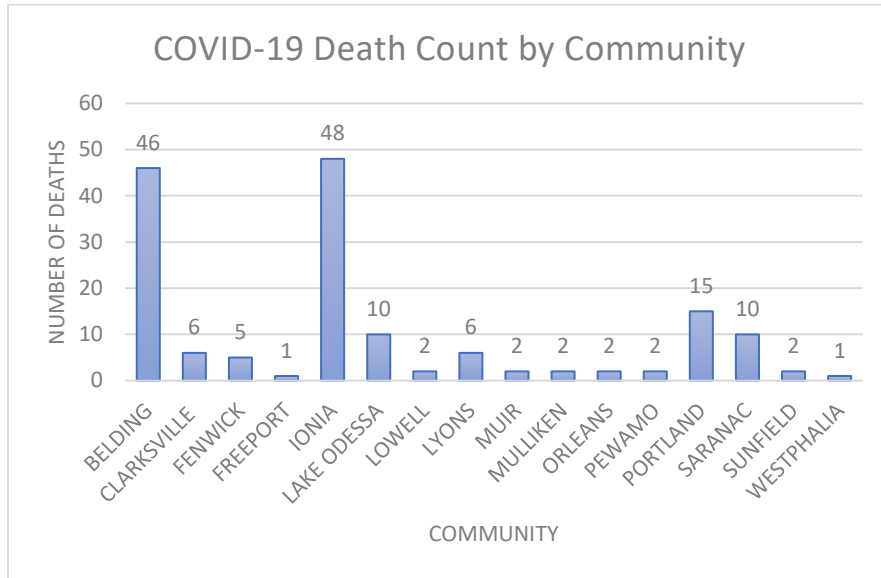
This data analysis examined the trends and characteristics of deaths due to COVID-19 in Ionia County between 03/01/2020 and 01/31/2022. Data was collected from the Michigan Disease Surveillance System (MDSS) and Michigan Care Improvement Registry (MCIR).

Demographic Data

^Between 03/01/2020 and 01/31/2022, there were 160 confirmed COVID-19-associated deaths.

- Males made up 60% of deaths during this period (Male: **96** – Female: **64**).
- The average age at time of death for all cases was 74 years (Male: **72** – Female: **77**).
- The median age at time of death for all cases was 76 years (Male: 72 – Female: 79).
- The statistical range of all cases was 65 years (The oldest case was a 101-year-old Female; the youngest case was a 36-year-old Male).

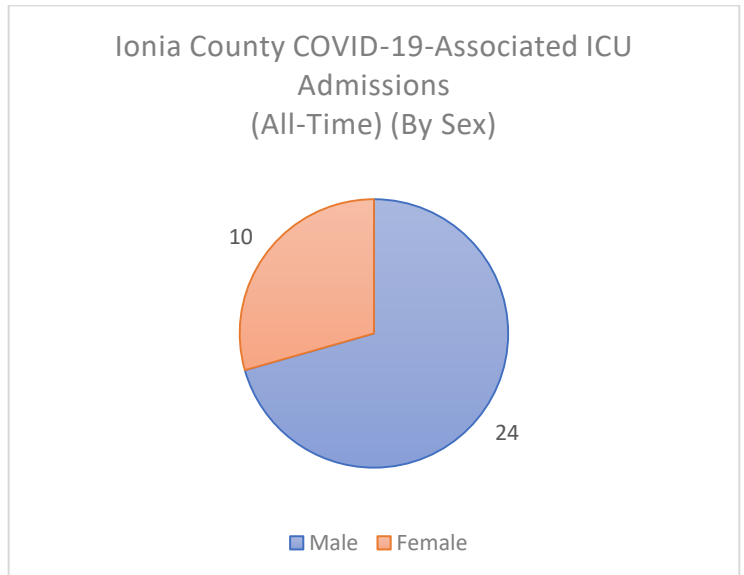
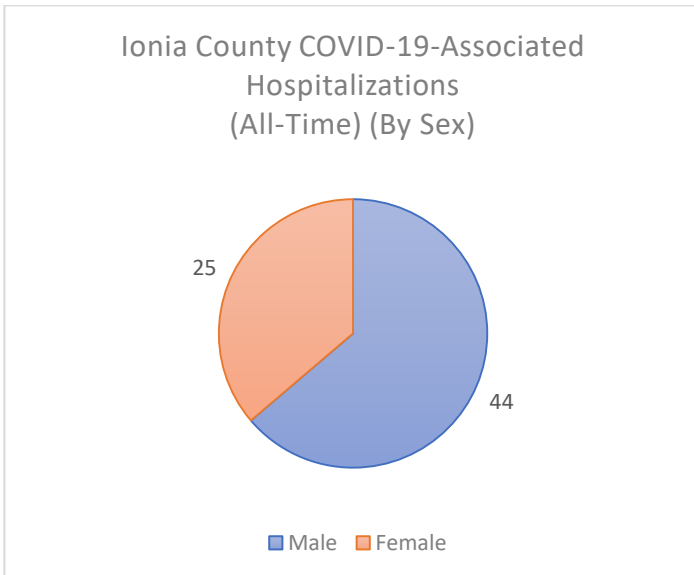


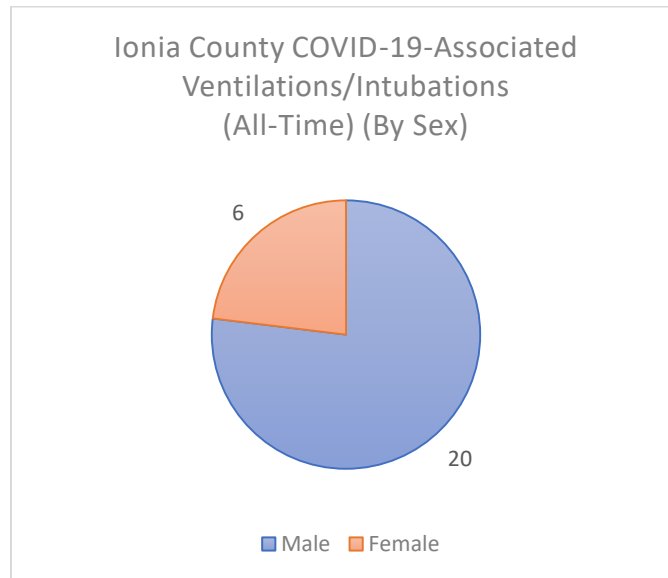


Hospitalization Data

^Between 03/01/2020 and 01/31/2022, there were 69 COVID-19-associated hospitalizations in Ionia County
(43% of all cases)

- Males made up 64% of COVID-19-associated hospitalizations (Male: **44** – Female: **25**).
- Nearly half of all hospitalizations resulted in ICU admittance (34/69).
 - Males made up **70%** of ICU admissions.
- Males made up **77%** of ventilator/intubation cases (Male: **20** – Female: **6**).





Illness Data

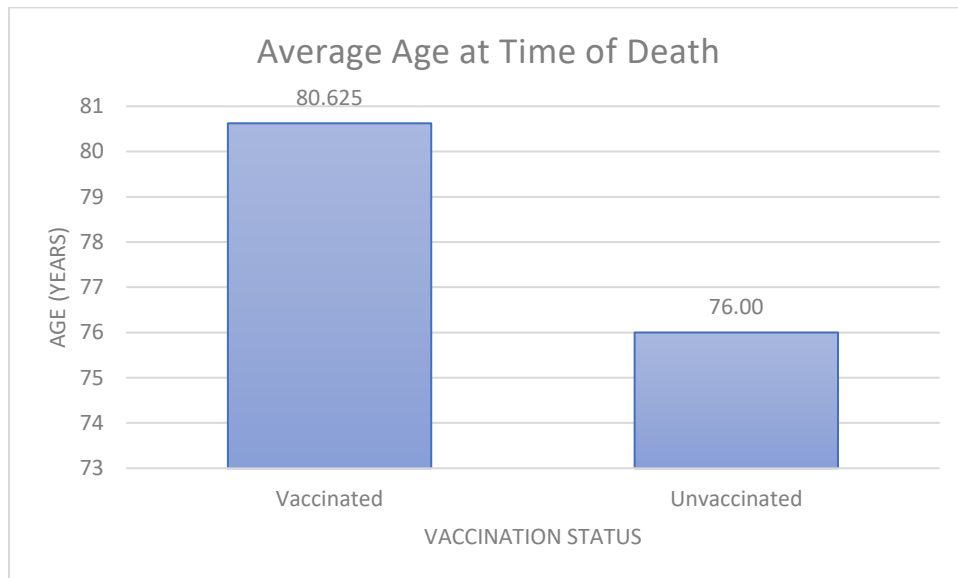
- ^The most reported signs/symptoms were shortness of breath (21% of all cases), cough (19% of all cases), and fatigue (16% of all cases).
- ^Underlying health conditions were documented in 37% of all deaths (59/160).
 - The most common underlying health conditions were cardiovascular illnesses (**76%** of documented conditions), diabetes (41% of conditions), and pulmonary illnesses (25% of conditions).
- ^Males made up **62%** of cases with at least one underlying condition and **64%** of cases with multiple documented conditions.
- ^23 cases had suspected pneumonia, of which, there were 18 documented confirmations (**78%**).

Vaccination Data

The CDC has established a distinction between being ‘fully vaccinated’ versus ‘up-to-date’ with vaccinations. Those who are ‘fully vaccinated’ have completed their primary vaccination series but have not yet received a booster. Those who have received all recommended vaccinations – including their booster – are ‘up-to-date’.

^Of the 160 COVID-19-associated deaths between 03/01/2020 and 01/31/2022:

- ^There were 24 documented vaccination cases (15% of all cases).
 - 24 were initiated, 22 were fully vaccinated, 4 were boosted.
- ^The average age at time of death for those who were vaccinated – initiated, fully vaccinated, or boosted – was **four years greater** than that of those who were unvaccinated (**80 – 76**, respectively).



Notable Points

- The proportion of male deaths in the county exceeded the proportion seen statewide (Ionia County: 60% – MI: 53% – U.S: 54%).
- Male ICU and ventilation/intubation cases were disproportionately high.

Data Reporting Notice:

During the period in which cases were identified for review, there were 160 confirmed COVID-19-associated deaths. Data on sites such as MDSS are updated regularly. As such, some data in the report may have become outdated at the time of reporting due to potential updates.

Due to potential case loss to follow up, data collected and stored in databases such as MDSS can be limited in its detail, affecting the scope of what can be evaluated.

^Data used to evaluate hospitalization status, vaccination status, signs and symptoms, and underlying conditions was based on information documented in the case's profile. Data was not included if there was no documentation of a case's status in a specific category.

Sources:

Michigan Disease Surveillance System

Michigan Care Improvement Registry

<https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html>

<https://www.cdc.gov/coronavirus/2019-ncov/covid-data/investigations-discovery/hospitalization-death-byage.html>

<https://www.cdc.gov/coronavirus/2019-ncov/vaccines/stay-up-to-date.htm>