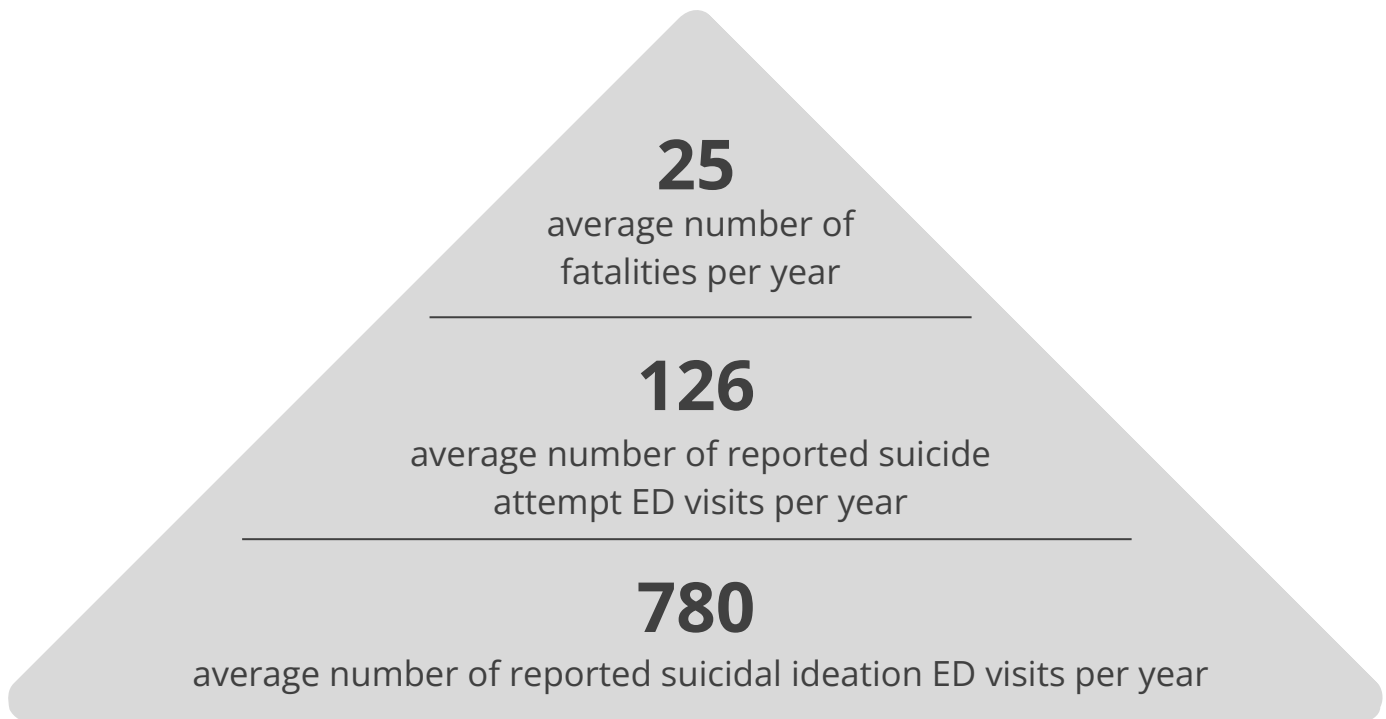## Summary

This report summarizes suicide fatality and suicide-related emergency department (ED) visits from 2018 to 2022 in Medina County, Ohio. A suicide fatality was identified using the following ICD-10 codes for primary cause of death: U03, X60-X84, Y87.0. A suicide attempt ED visit was identified using the "suicide attempt" classifier in EpiCenter. A suicidal ideation ED visit was identified using the "suicidal ideation" classifier in EpiCenter.

Key Findings

- Suicide fatality rates decreased from 2019 to 2022.
- Suicide fatality was more common among males than females.
- Adults 60+ had the highest number of fatalities.
- Suicide attempt ED visits increased from 2018 to 2022.
- Suicide attempt ED visits were higher among females compared to males.
- Youth 10 - 19 years had the highest number of suicide attempt ED visits.

25
average number of
fatalities per year

126
average number of reported suicide
attempt ED visits per year

780
average number of reported suicidal ideation ED visits per year

*All fatality data from 2021 and 2022 are considered preliminary and subject to change.
Counts <5 are not displayed for data privacy reasons.

Suicide Fatalities

## Suicide fatality rates **decreased** in Medina County from 2019 to 2022.

Figure 1. Suicide Age-Adjusted Mortality Rates per 100,000 in Medina County and Ohio, 2018-2022*
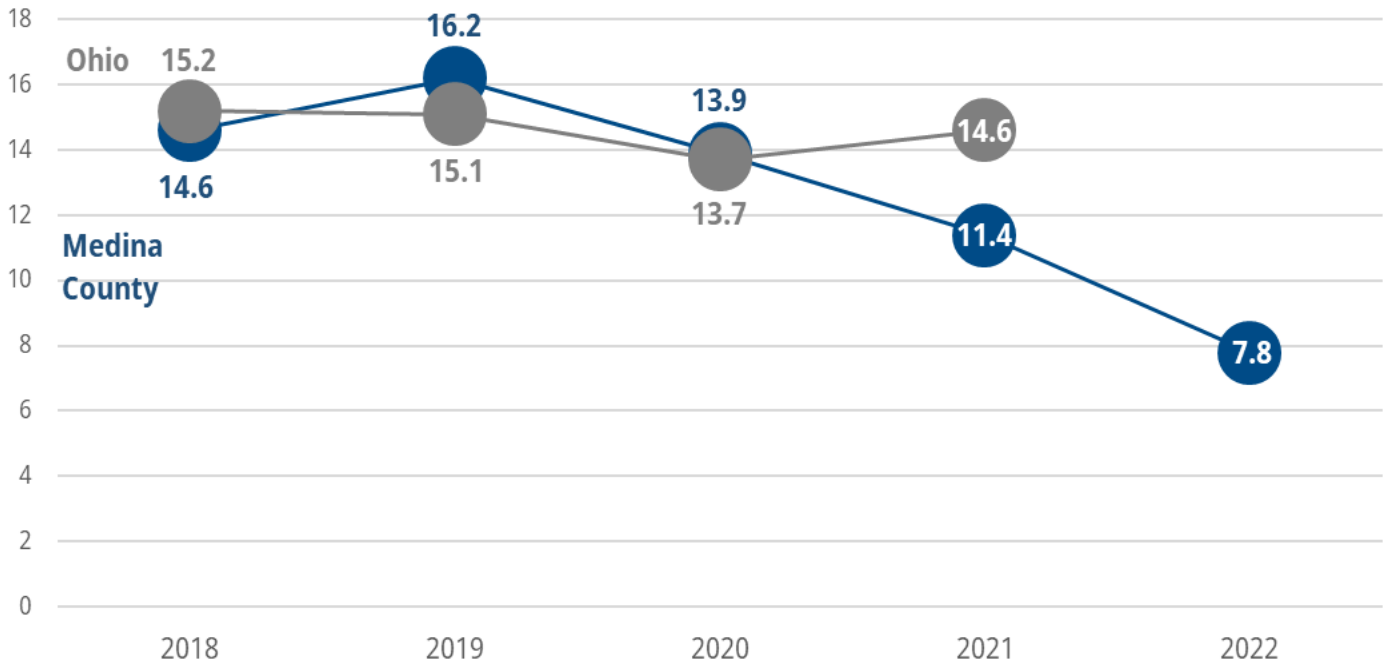
Ohio age-adjusted suicide fatality rate is not available for 2022.

There is **no clear trend** in the **time of year** that suicide fatalities occur.
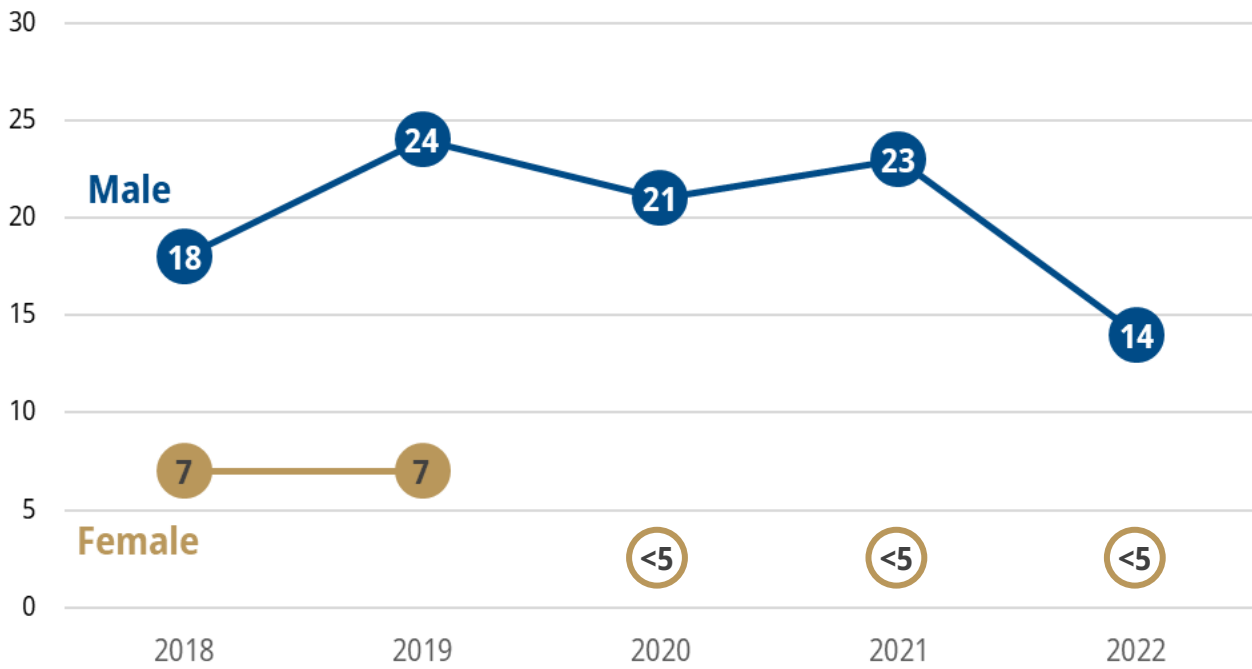
Figure 2. Number of Suicide Fatalities by Month in Medina County, 2018-2022*
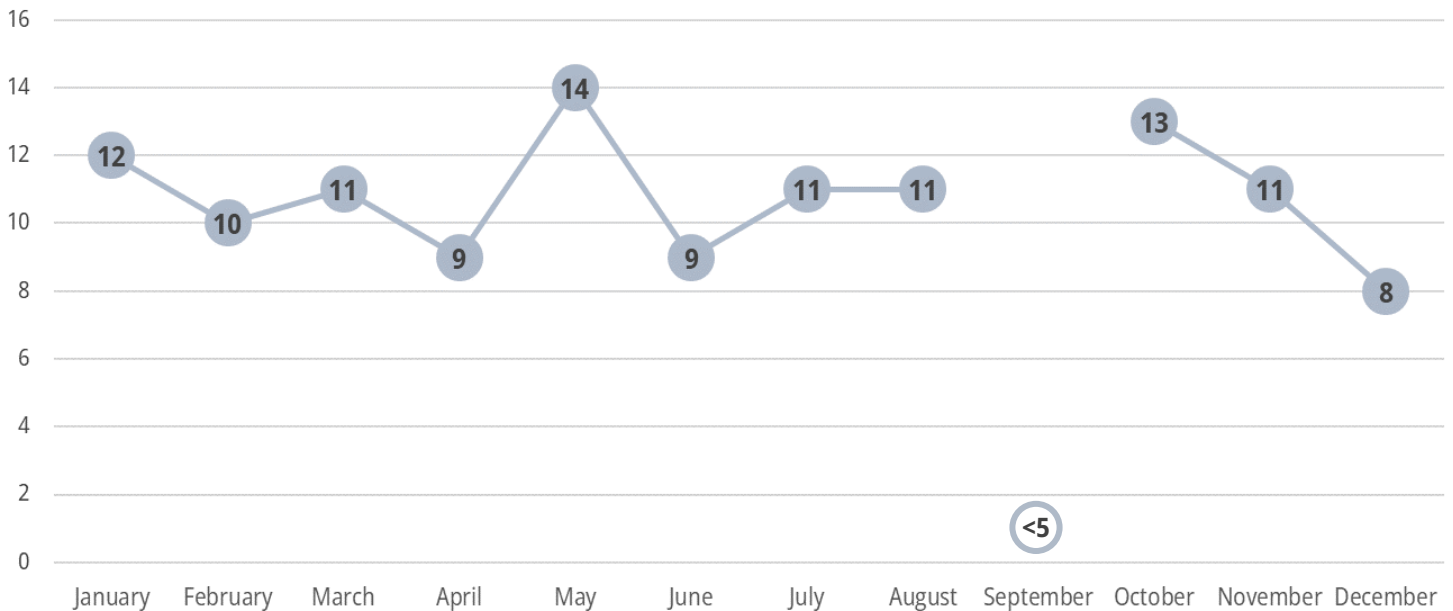
1 - Ohio Department of Health Bureau of Vital Statistics. Mortality File.
2 - Centers for Disease Control and Prevention, National Center for Health Statistics. National Vital Statistics System, Mortality 2018-2021 on CDC WONDER Online Database.

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# Males accounted for **more suicide fatalities** than females.

Figure 3. Number of Suicide Fatalities by Sex in Medina County, 2018-2022*

Counts <5 are not displayed for data privacy reasons.

Adults 60+ had the highest number of suicide fatalities.
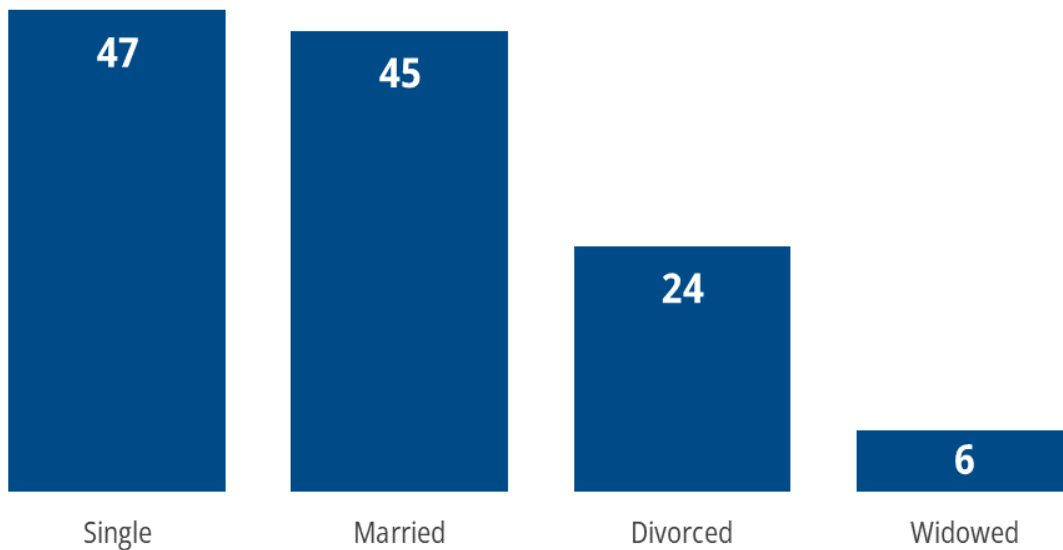
Figure 4. Number of Suicide Fatalities by Age Group in Medina County, 2018-2022*

1 - Ohio Department of Health Bureau of Vital Statistics.
Mortality File.
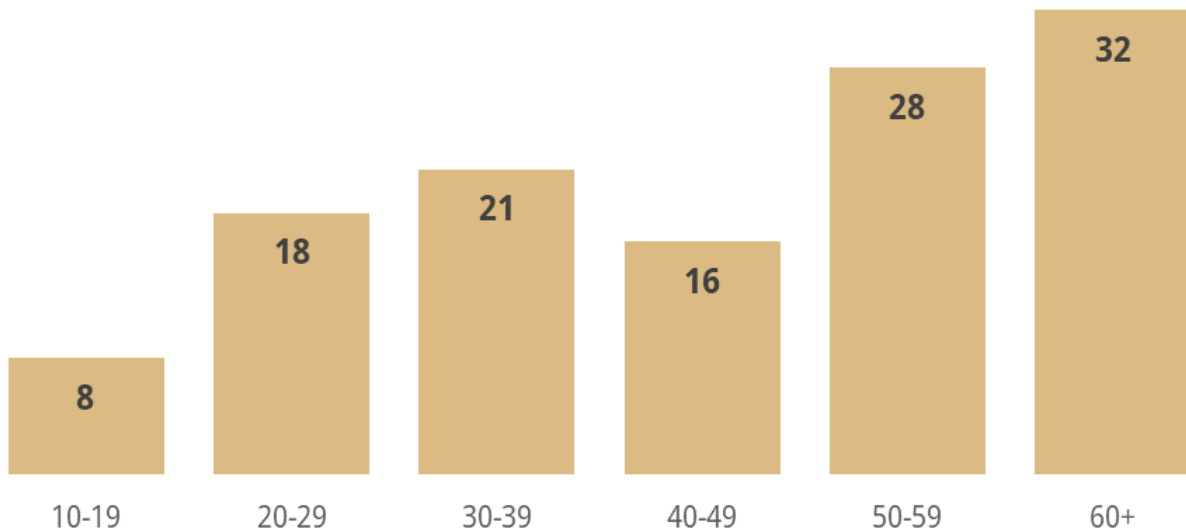
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Single and married individuals had a similar number of suicide fatalities.

Figure 5. Number of Suicide Fatalities by Marital Status in Medina County, 2018-2022*

Single	Married	Divorced	Widowed
47	45	24	6

One fatality had an unknown marital status.

High school graduates had the highest number of suicide fatalities.

Figure 6. Number of Suicide Fatalities by Education in Medina County, 2018-2022*

Education	Number
High School Graduate or GED	46
Some college, no degree	21
Did not finish high school	19
Bachelor's Degree	18
Associate Degree	11
Master's, Doctorate, or Professional Degree	6
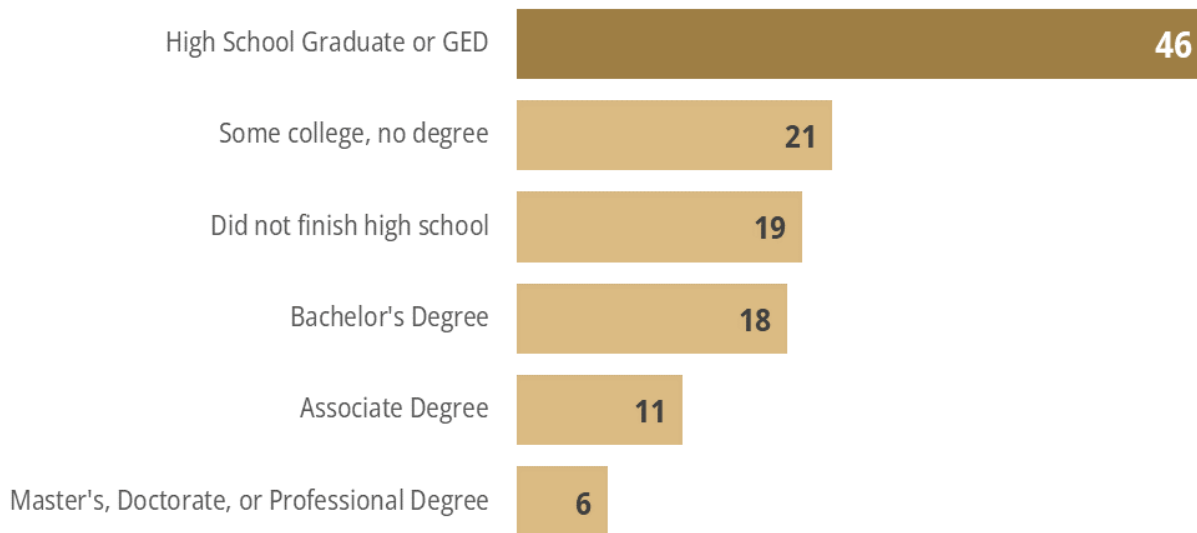
Two fatalities were missing education information.

1 - Ohio Department of Health Bureau of Vital Statistics. Mortality File.

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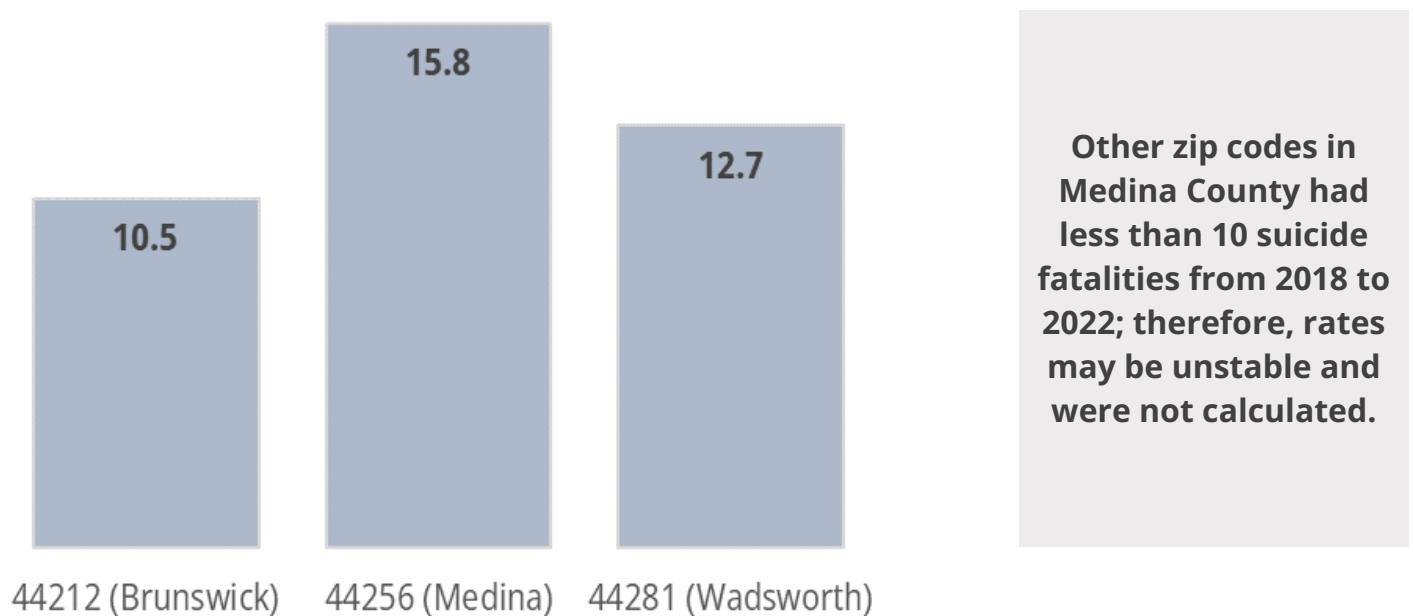HEALTH DEPARTMENT
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The majority of suicide fatalities were **White** and **Non-Hispanic**.

Figure 7. Suicide Fatalities by Race and Ethnicity in Medina County, 2018-2022*

100%

of fatalities
identified as
White

98%

of fatalities
identified as
Non-Hispanic
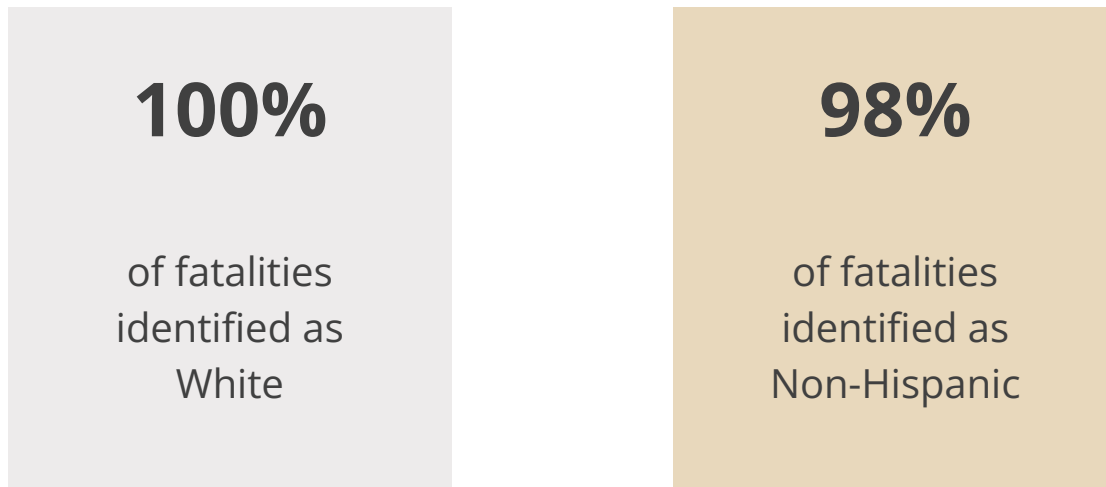
Zip code 44256 (Medina) had the highest rate of suicide fatalities.

Figure 8. Suicide Fatality Rate per 100,000 persons by Zip Code in Medina County, 2018-2022*

Other zip codes in Medina County had less than 10 suicide fatalities from 2018 to 2022; therefore, rates may be unstable and were not calculated.
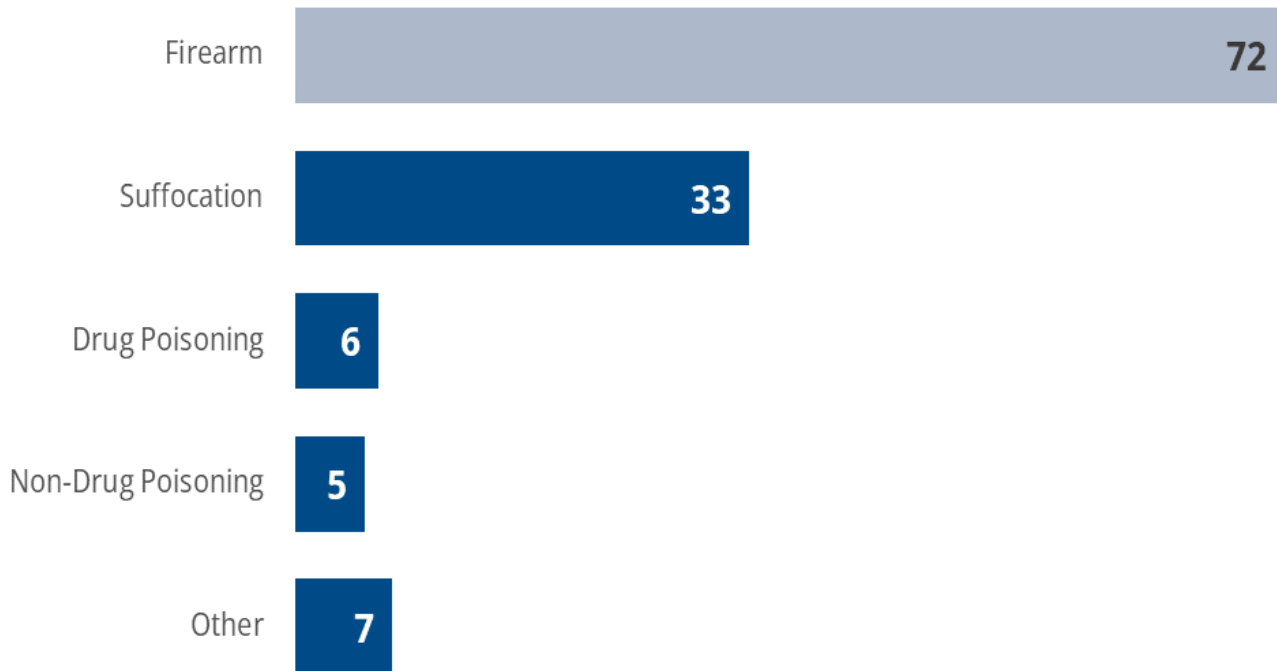
Two fatalities were missing residential zip code information.

1 - Ohio Department of Health Bureau of Vital Statistics. Mortality File.
3 - U.S. Decennial Census. 2020.

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The majority of suicide fatalities involved a **firearm**.

Figure 9. Suicide Fatalities by Method of Suicide in Medina County, 2018-2022*

Method	Count
Firearm	72
Suffocation	33
Drug Poisoning	6
Non-Drug Poisoning	5
Other	7

1 - Ohio Department of Health Bureau of Vital Statistics. Mortality File.

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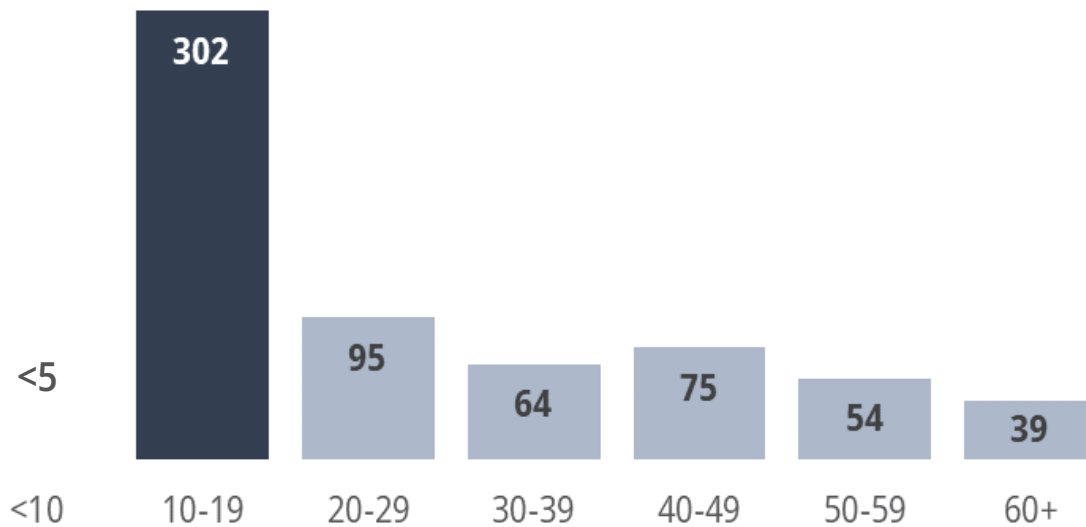
6

ED Visits Related to Suicide

Suicide attempt ED visits have been **increasing.**

Figure 10. Number of ED Visits with Suicide Attempt among Medina County Residents, 2018-2022
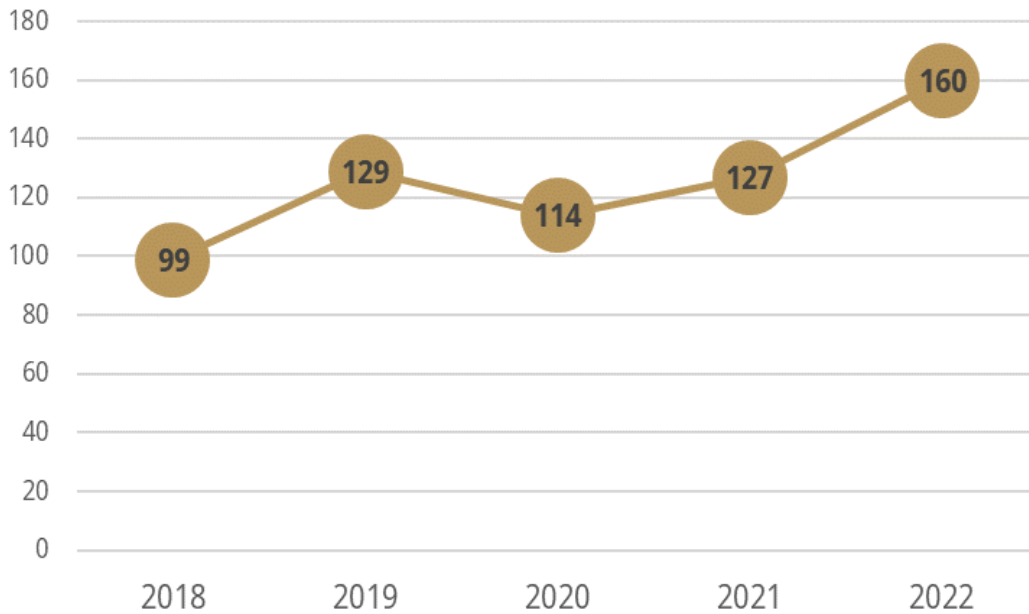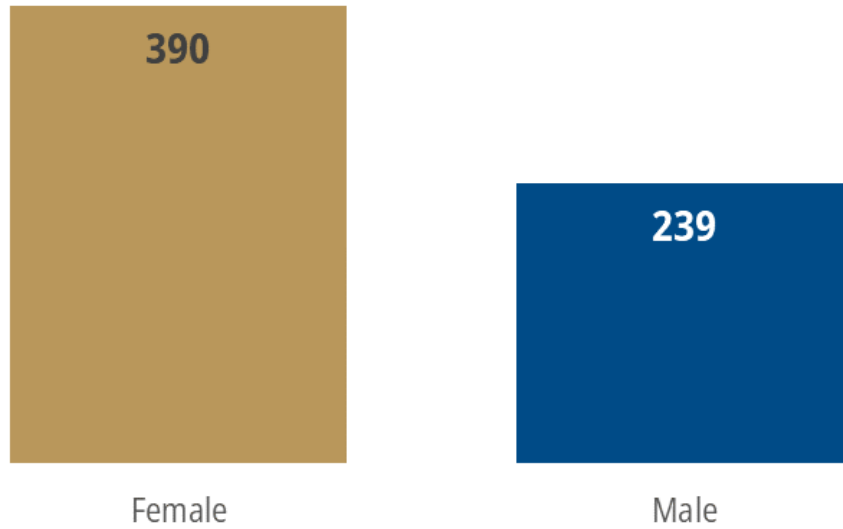

Suicide attempt ED visits were highest among the **10-19 years age group.**

Figure 11. Number of ED Visits with Suicide Attempt by Age Group among Medina County Residents, 2018-2022

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Suicide attempt ED visits were highest among **females.**

Figure 12. Number of ED Visits with Suicide Attempt by Sex among Medina County Residents, 2018-2022

The highest rates of **suicide attempt** ED Visits were **African American** and **Non-Hispanic**.

Figure 13. Rate of Suicide Attempt ED Visits per 100,000 Population by Race and Ethnicity in Medina County, 2018-2022
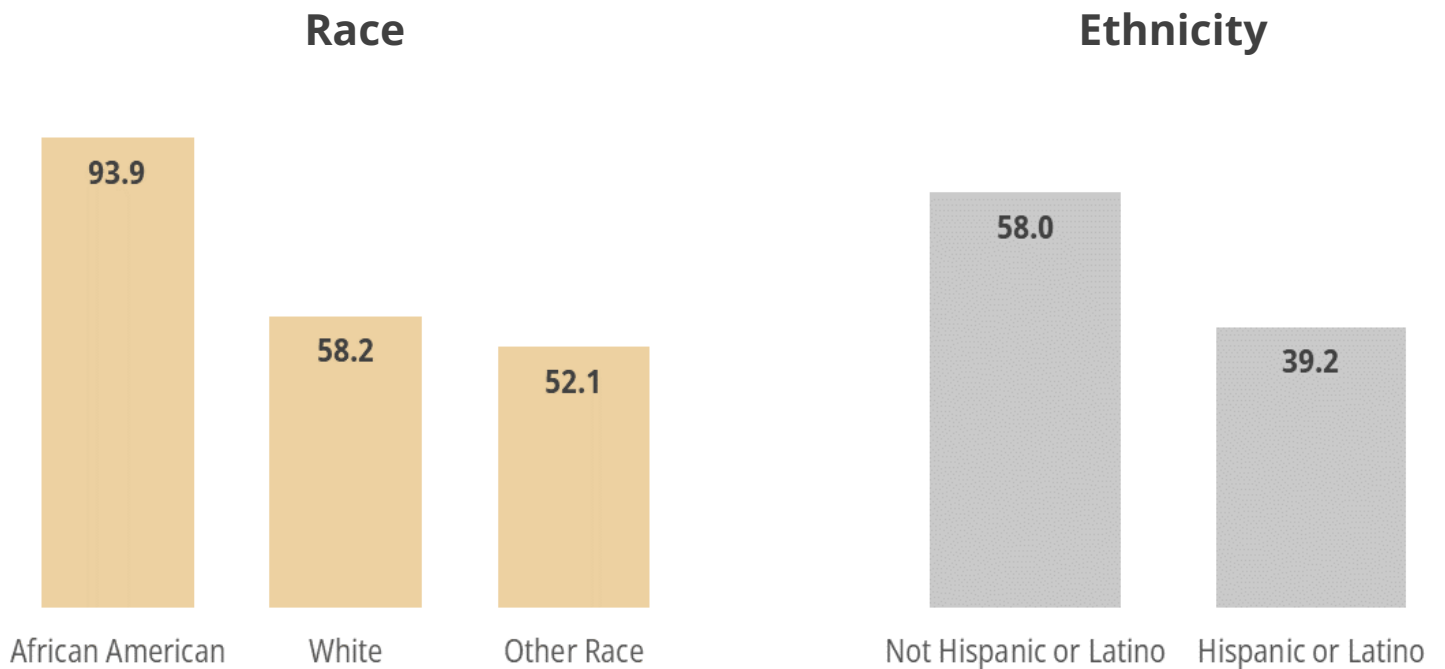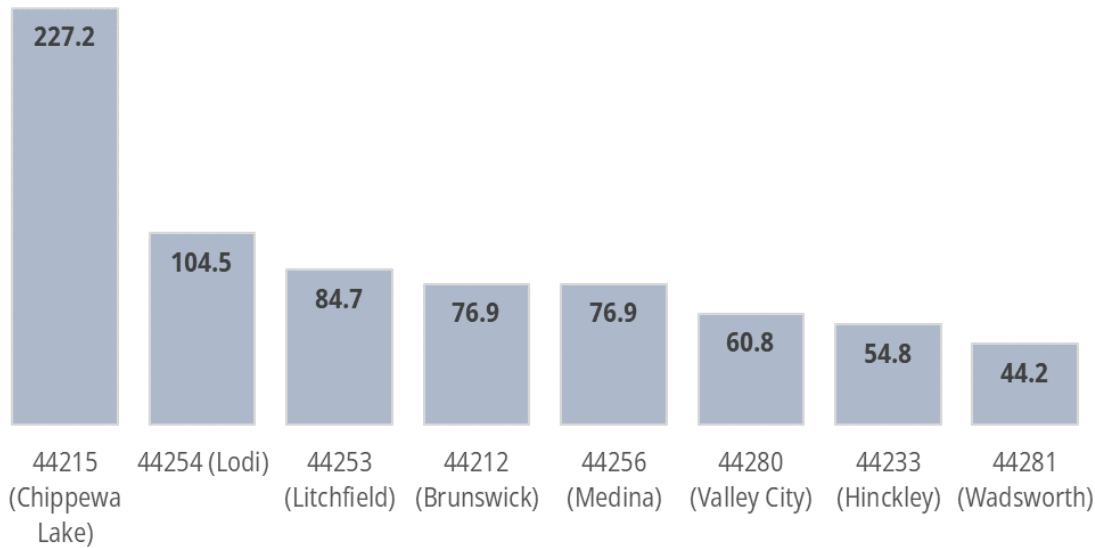

There were 98 suicide attempt ED Visits missing race information and 104 suicide attempt ED Visits missing ethnicity information.

3 - U.S. Decennial Census. 2020.
4 - EpiCenter. Health Monitoring.

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Zip code 44215 (Chippewa Lake) had the highest rate of **suicide attempt ED visits.**

Figure 14. Suicide Attempt ED Visit Rate per 100,000 Population by Zip Code in Medina County, 2018-2022*

Zip Code	Rate
44215 (Chippewa Lake)	227.2
44254 (Lodi)	104.5
44253 (Litchfield)	84.7
44212 (Brunswick)	76.9
44256 (Medina)	76.9
44280 (Valley City)	60.8
44233 (Hinckley)	54.8
44281 (Wadsworth)	44.2

Other zip codes in Medina County had less than 10 ED Visits from 2018 to 2022; therefore, rates may be unstable and were not calculated.

Suicidal ideation ED visits remained **stable** from 2018 to 2022.

Figure 15. Number of ED Visits with Suicidal Ideation among Medina County Residents, 2018-2022

Year	Number
2018	852
2019	785
2020	701
2021	789
2022	774
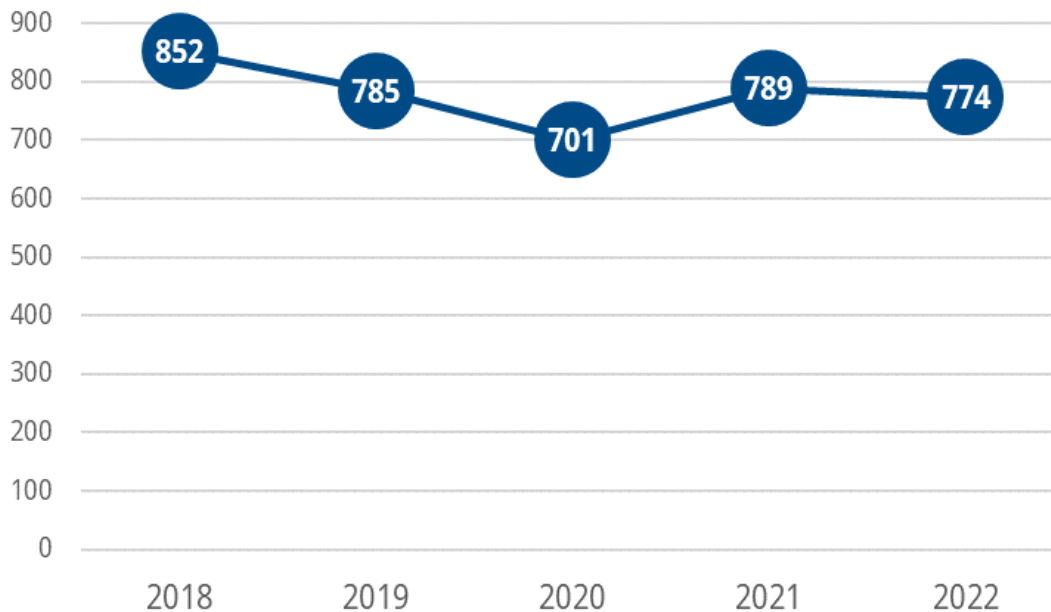
Suicidal ideation ED visits only represent those with suicidal ideation who have visited an Emergency Department that reports to EpiCenter and do not represent the total number of individuals in the county with suicidal ideation.

3 - U.S. Decennial Census. 2020.
4 - EpiCenter. Health Monitoring.

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Methods

Fatalities were obtained on 12/12/2023 from the Ohio Department of Health Bureau of Vital Statistics Mortality File. A suicide fatality was identified by ICD-10 codes X60-X84, Y87.0, *U03 listed under the primary cause of death code. The mortality file provided year of death, age, education, marital status, residence zip code, gender, race, ethnicity, external injury mechanism (method of suicide), and primary cause of death ICD-10 codes.

Age-adjusted suicide fatality rates for Ohio in Figure 1 were obtained from the Centers for Disease Control and Prevention CDC Wonder Tool using the category "X60-X84 (Intentional self-harm)". Data was not available for 2022.

Data from the 2020 United States Census were used in rate calculations. For rates calculated by zip code, a partial population including only Medina County residents was used.

ED visits were obtained from EpiCenter. A suicide attempt ED visit was identified using the "suicide attempt" classifier. A suicidal ideation ED visit was identified using the "suicidal ideation" classifier. ED visit counts were totaled by number of reported resident of Medina County visits.

*All fatality data from 2021 and 2022 are considered preliminary and subject to change.

Data Sources

1 - Ohio Department of Health Bureau of Vital Statistics. Mortality File. Data from 2021 and 2022 are considered preliminary and subject to change as more information is added. The Ohio Department of Health specifically disclaims responsibility for any analyses, interpretations or conclusions.

2 - Centers for Disease Control and Prevention, National Center for Health Statistics. National Vital Statistics System, Mortality 2018-2021 on CDC WONDER Online Database, released in 2021. Data are from the Multiple Cause of Death Files, 2018-2021, as compiled from data provided by the 57 vital statistics jurisdictions through the Vital Statistics Cooperative Program. Accessed at http://wonder.cdc.gov/ucd-icd10-expanded.html on Jan 9, 2024.

3 - United States Census Bureau. 2020 Decennial Census. https://data.census.gov/.

4 - EpiCenter. Operated by Health Monitoring. EpiCenter collects, stores, and analyzes de-identified registration data from hospitals and other healthcare facilities. Not all hospitals and other healthcare facilities report to EpiCenter. Therefore, data from EpiCenter may not be generalizable to the entire population.

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