



CUYAHOGA COUNTY BOARD OF HEALTH

Your Trusted Source For Public Health Information

2023 CUYAHOGA COUNTY DRUG OVERDOSE INTEGRATED EPIDEMIOLOGIC PROFILE (DOIEP) OVERVIEW

CCBH December Data Days
December 12, 2024

Kenya Moyers, MPH
kmoyers@ccbh.net
216-201-2001 x 1630

Overdose Data to Action (OD2A) Strategy

6A: Overdose Surveillance Infrastructure

- Surveillance main goals:
 - Improve drug overdose morbidity and mortality surveillance
 - Facilitate data-informed decision-making by prevention partners to decrease overdoses

Overview: Drug Overdose Integrated Epidemiologic Profile (DOIEP)

- DOIEP was adopted from the Centers for Disease Control and Prevention (CDC) and Health Resources and Services Administration (HRSA) document called the Integrated Epidemiologic Profile (IEP)
 - *This document provided guidance on how to:*
 - Describe the burden of HIV/AIDS using multiple data sources
 - Inform planning and evaluation of prevention programs
 - Interpret and share epidemiologic data



Goals for the DOIEP report

- Describe the socio-demographic characteristics of the general population for comparison to overdose statistics
- Provide a thorough description of drug overdose morbidity and mortality among various populations in Cuyahoga County, OH
- Identify trends and characteristics representing risk and protective factors for drug overdoses
- Provide insight for overdose prevention



Data Sources

United States Census Bureau

- Provides information about the demographic make-up of Cuyahoga County, Ohio
- 2022 American Community Survey estimates

State of Ohio Integrated Behavioral Health Dashboard

- Provides a county- and state-level picture of long-term trends in opioid use disorder (OUD), overdoses, and treatment
- Medicaid enrollees with opioid use disorder 2018-2022

Ohio Hospital Association (OHA) Data Dashboard

- Provides state, regional, and county-level data on opioid overdose encounters at Ohio hospitals
- 2018-2023

Data Sources

Ohio Department of Health (ODH) Vital Statistics

- Unintentional drug overdose deaths (UDOD) among those whose resided in Cuyahoga County at time of death
- 2015-2023 (midyear)

ODH EpiCenter

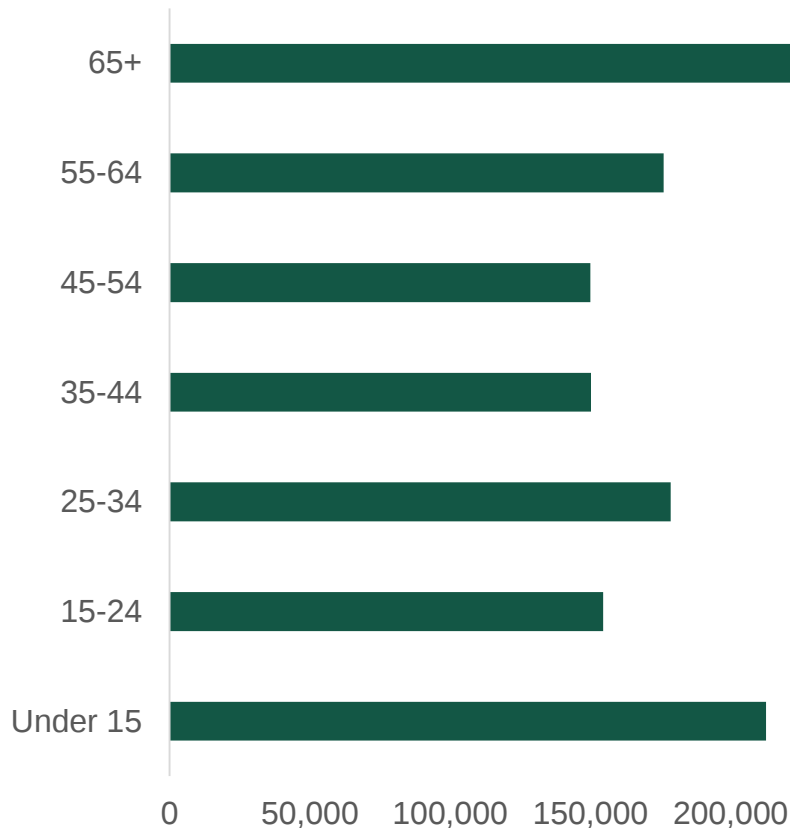
- Cuyahoga County emergency department (ED) visits due to suspected drug overdoses
- 2017-2023 (preliminary)

Ohio Department of Public Safety's EMS Incidence Reporting System (EMSIRS)

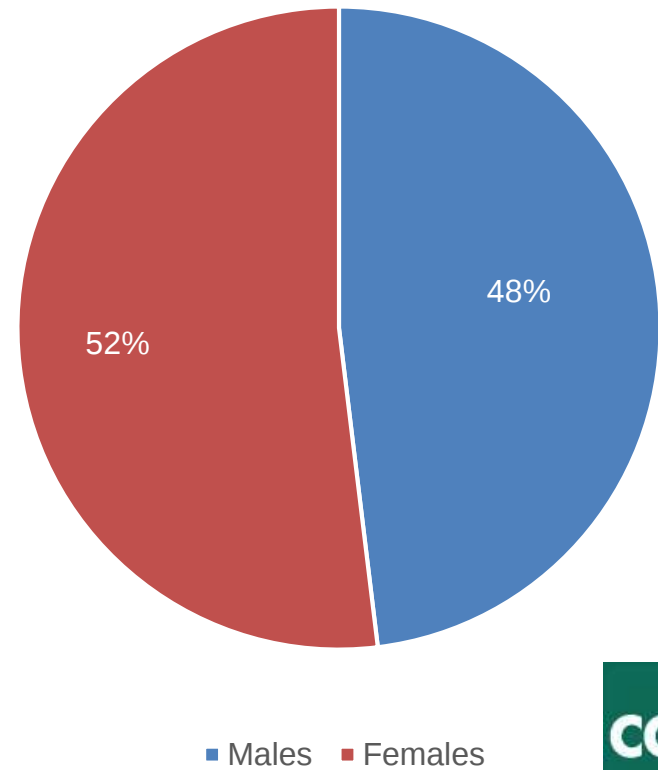
- Records naloxone administration by Cuyahoga County EMS
- 2018-2023 (quarterly)

Geographical and Sociodemographic Composition of Cuyahoga County, OH, 2022

Age



Gender

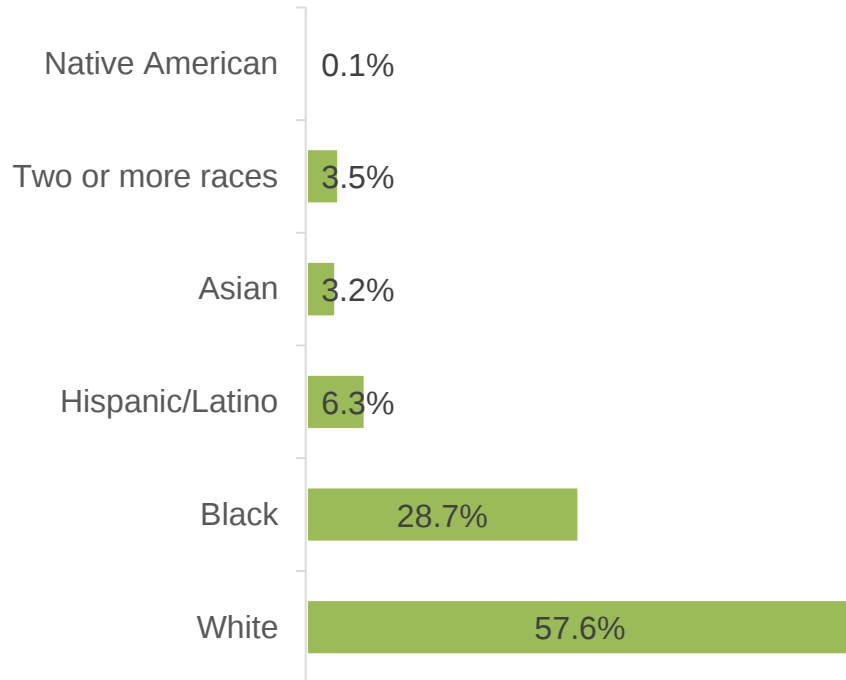


■ Males ■ Females



Geographical and Sociodemographic Composition of Cuyahoga County, OH, 2022

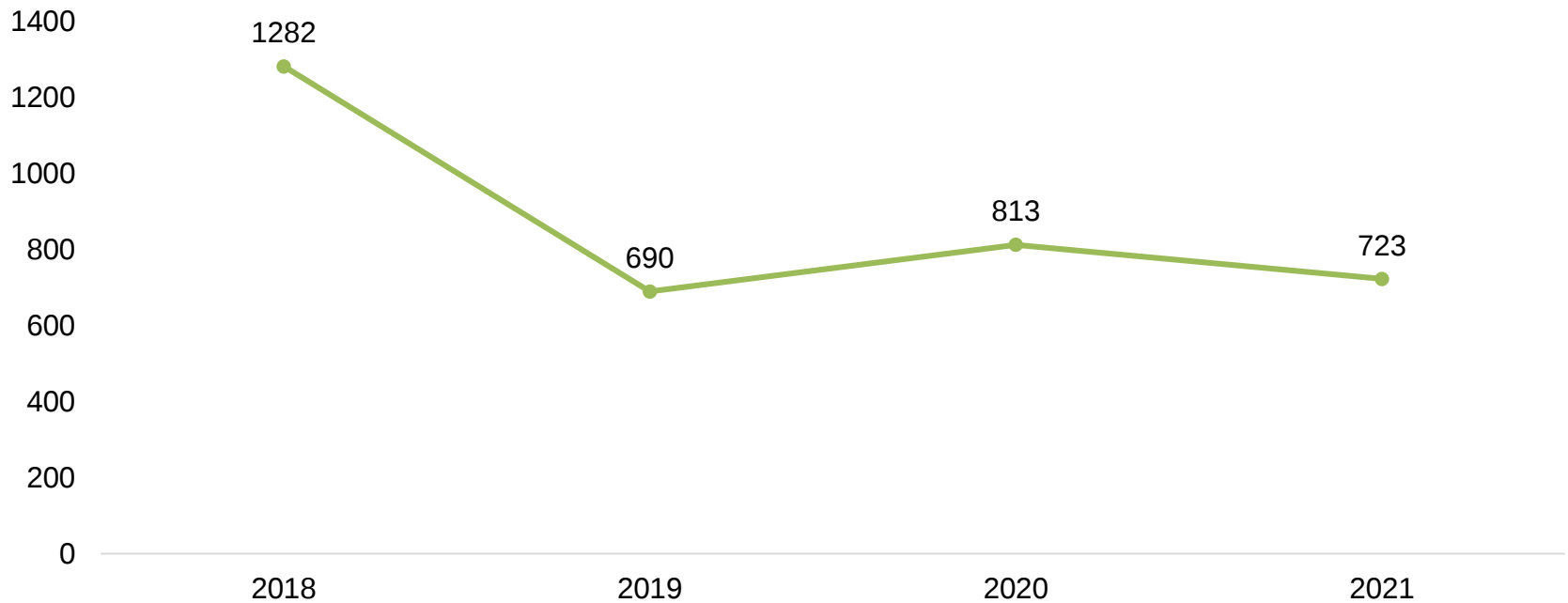
Race/Ethnicity



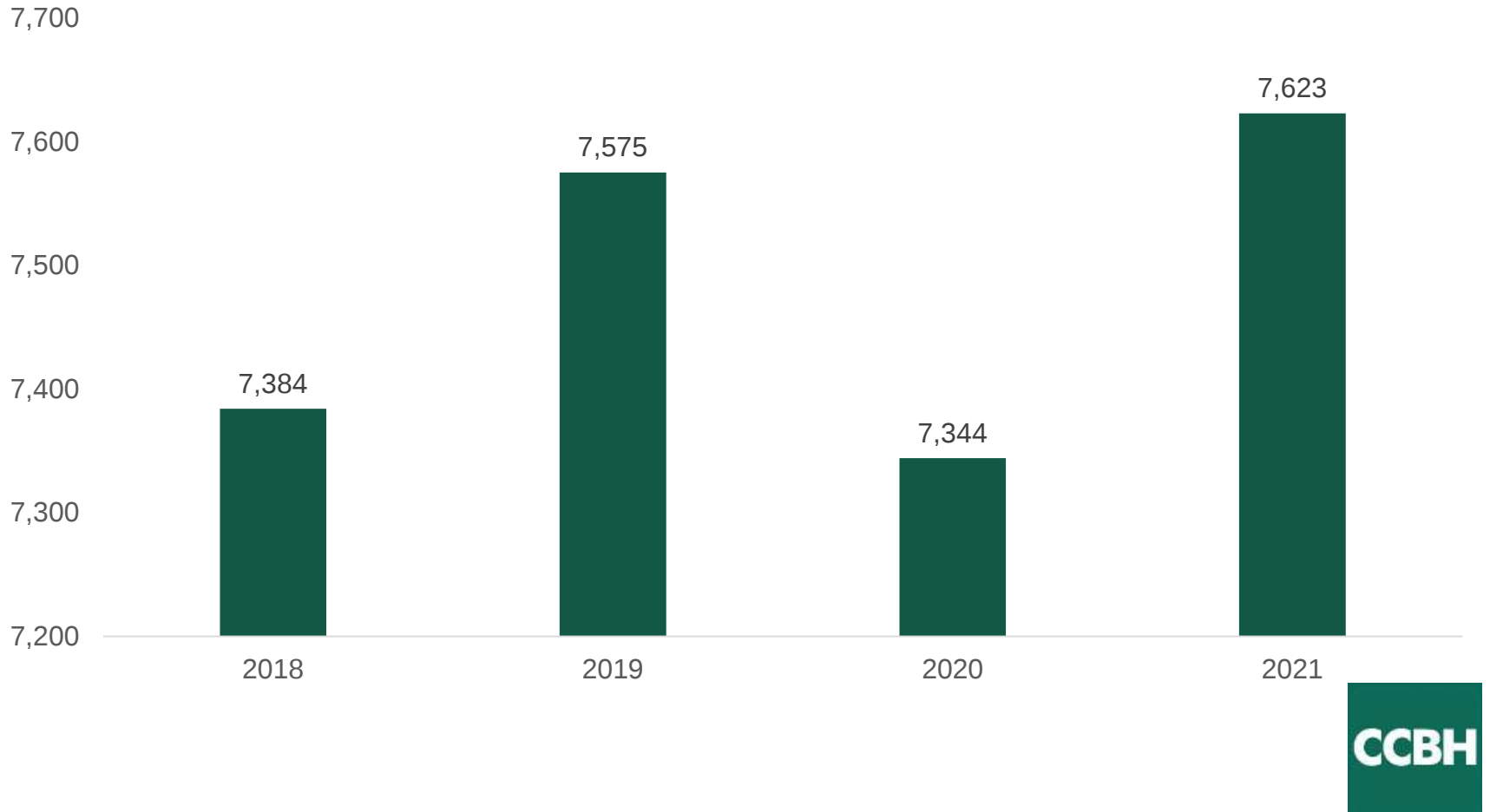
Education



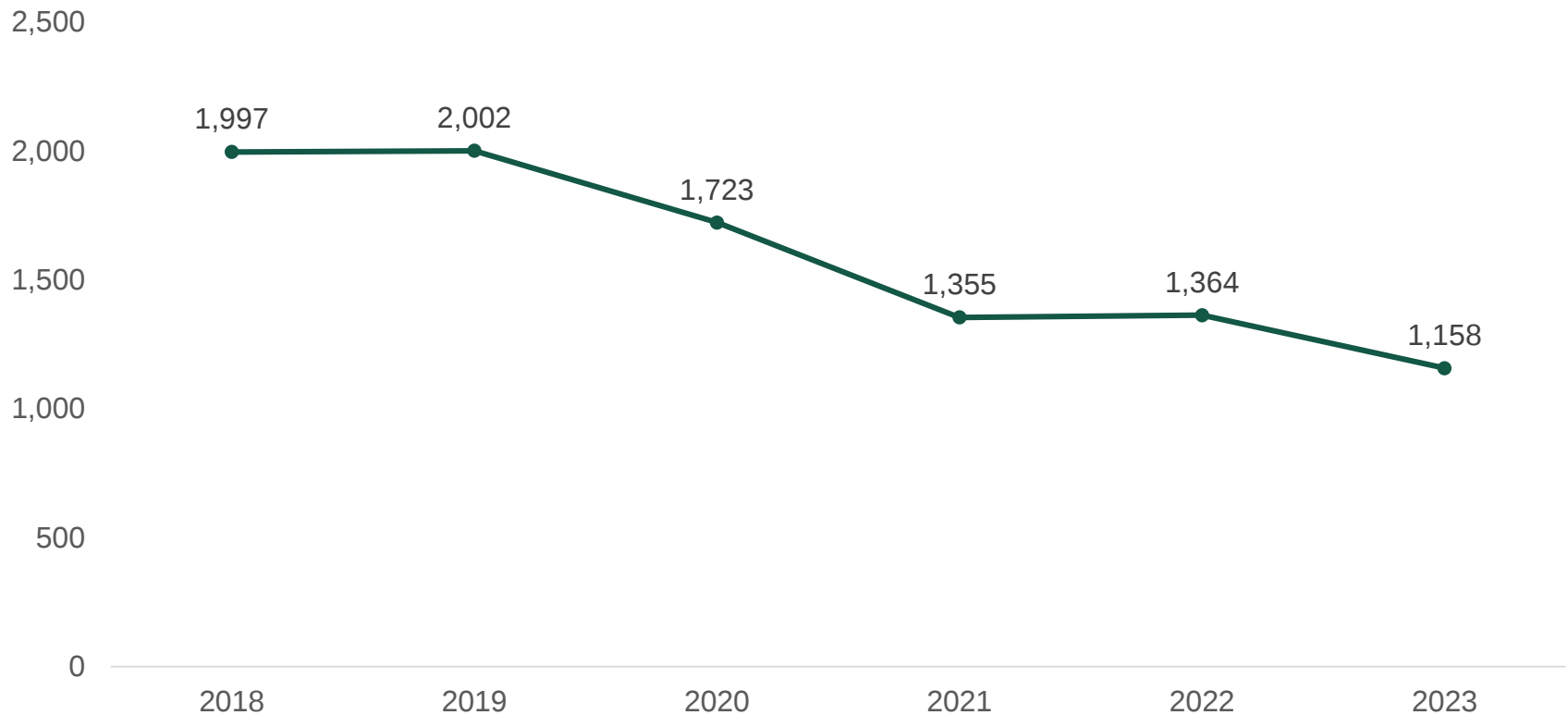
Total Medicaid Enrollees Screened for Substance Use, 2018-2021



Medicaid Enrollees with Opioid Use Disorder, 2018-2021

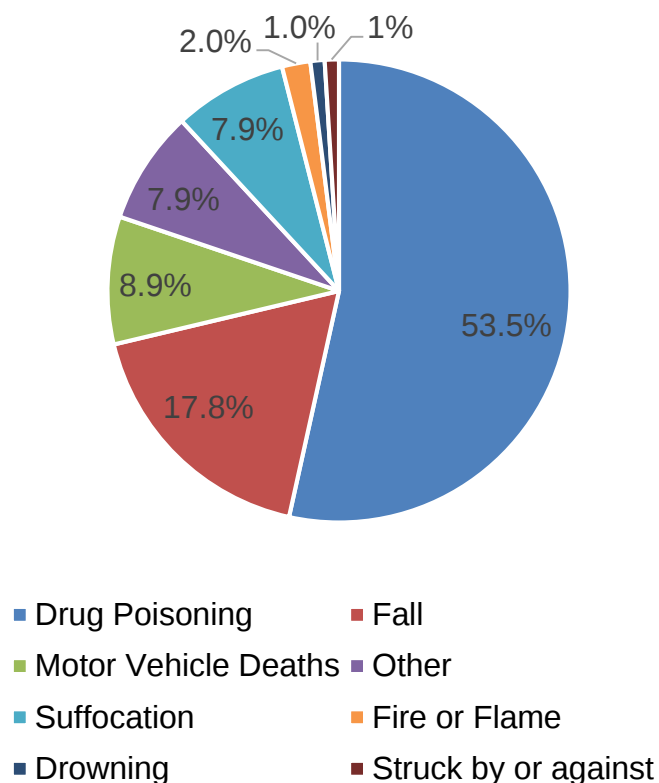


Hospital Encounters Related to Opioid Overdose in Cuyahoga County, 2018-2023



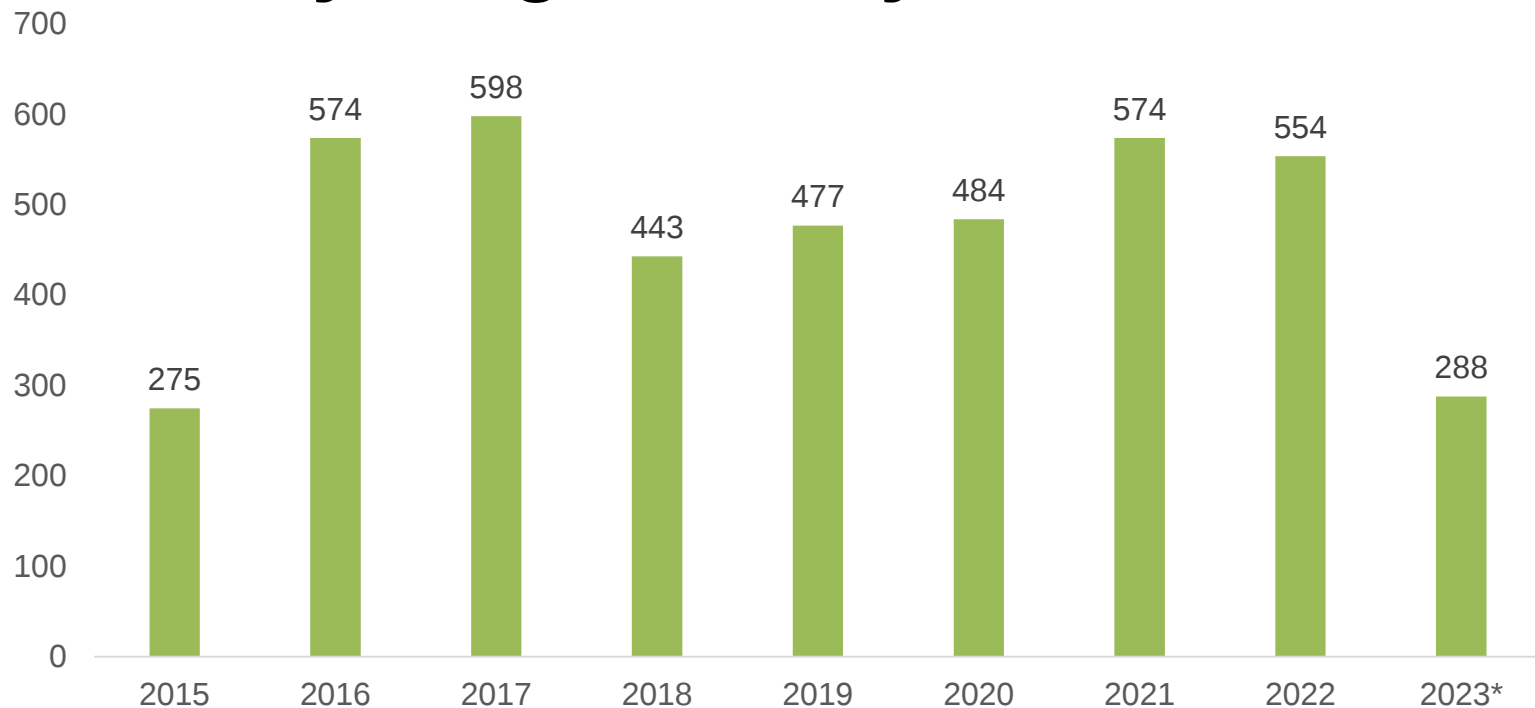
Unintentional Deaths in Cuyahoga County

Causes of Unintentional Death,
2022



- In 2022, there were 14,976 deaths in the county
- 7% (n= 998) of those deaths were unintentional deaths
- Drug poisoning accounted for more than half of all unintentional deaths

Number of unintentional drug overdose deaths (UDOD) among residents of Cuyahoga County, 2015-2023*



In 2022, the rate of UDOD was 42.9 per 100,000



Demographics for UDOD in Cuyahoga County, 2022

Age (years)	N	%	Rate per 100,000
15-24	28	5.1	16.6
25-34	114	20.6	72.2
35-44	130	23.5	81.8
45-54	108	19.5	54.8
55-64	114	20.6	69.5
65 and older	60	10.8	63.9
Mean Age (years)	45.8		

Demographics for UDOD in Cuyahoga County, 2022

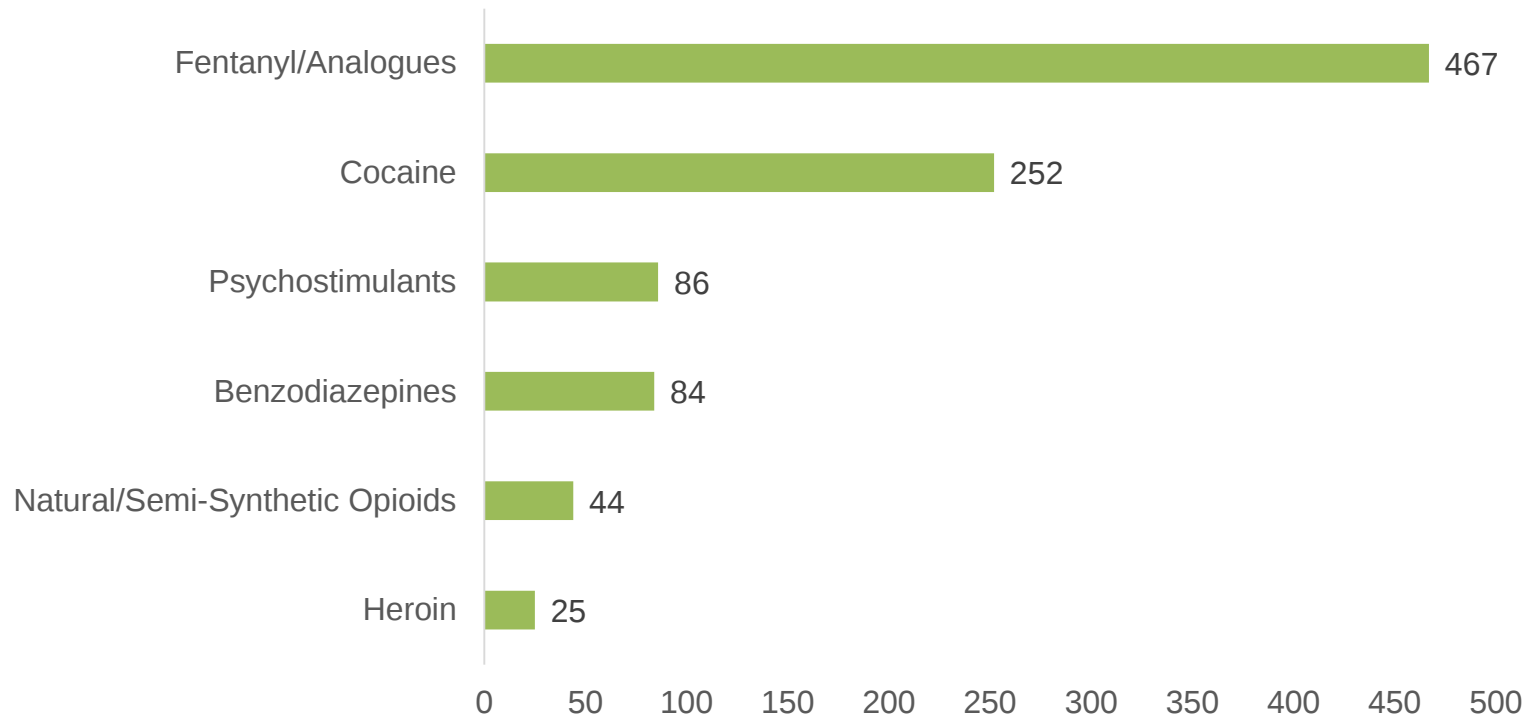
Sex	N	%	Rate per 100,000
Female	168	30.3	25.0
Male	386	69.7	63.6
Race/Ethnicity			
Non-Hispanic Black	213	38.5	56.0
Non-Hispanic White	299	54.0	36.7
Hispanic	32	5.8	52.2

Demographics for UDOD in Cuyahoga County, 2022

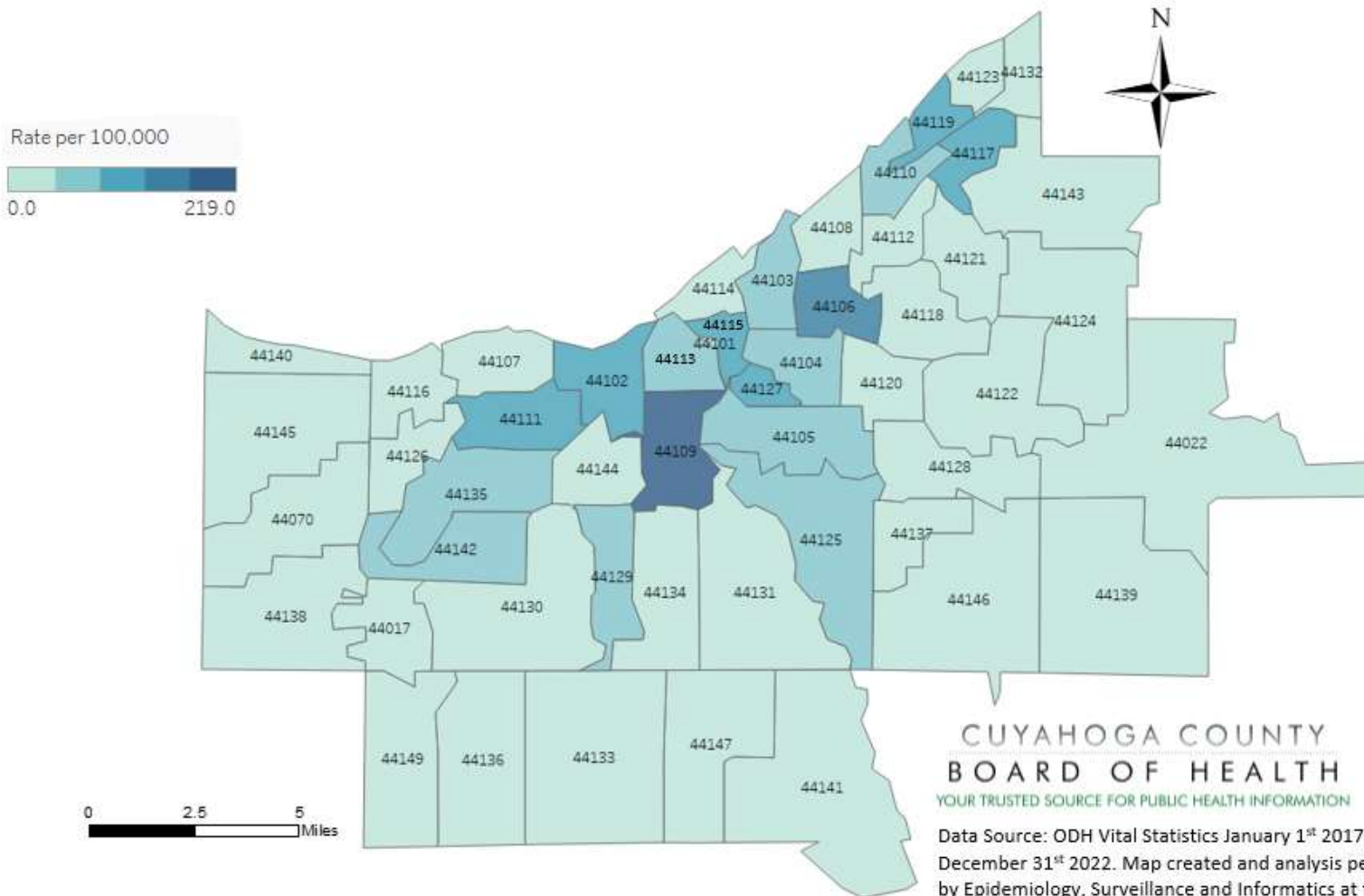
Race/Ethnicity and Sex	N	%	Rate per 100,000
Non-Hispanic Black Females	52	9.4	25.0
Non-Hispanic Black Males	161	29.1	93.3
Non-Hispanic White Females	105	19.0	24.9
Non-Hispanic White Males	194	35.0	49.4
Hispanic Females	9	1.6	28.9
Hispanic Males	23	4.2	76.4

Drug Overdose Mortality—Drug Types

UDOD Involving Select Drugs in Cuyahoga County,
2022



Rate of UDOD in Cuyahoga County by Residence ZIP Code, 2017-2022



CUYAHOGA COUNTY
BOARD OF HEALTH
YOUR TRUSTED SOURCE FOR PUBLIC HEALTH INFORMATION

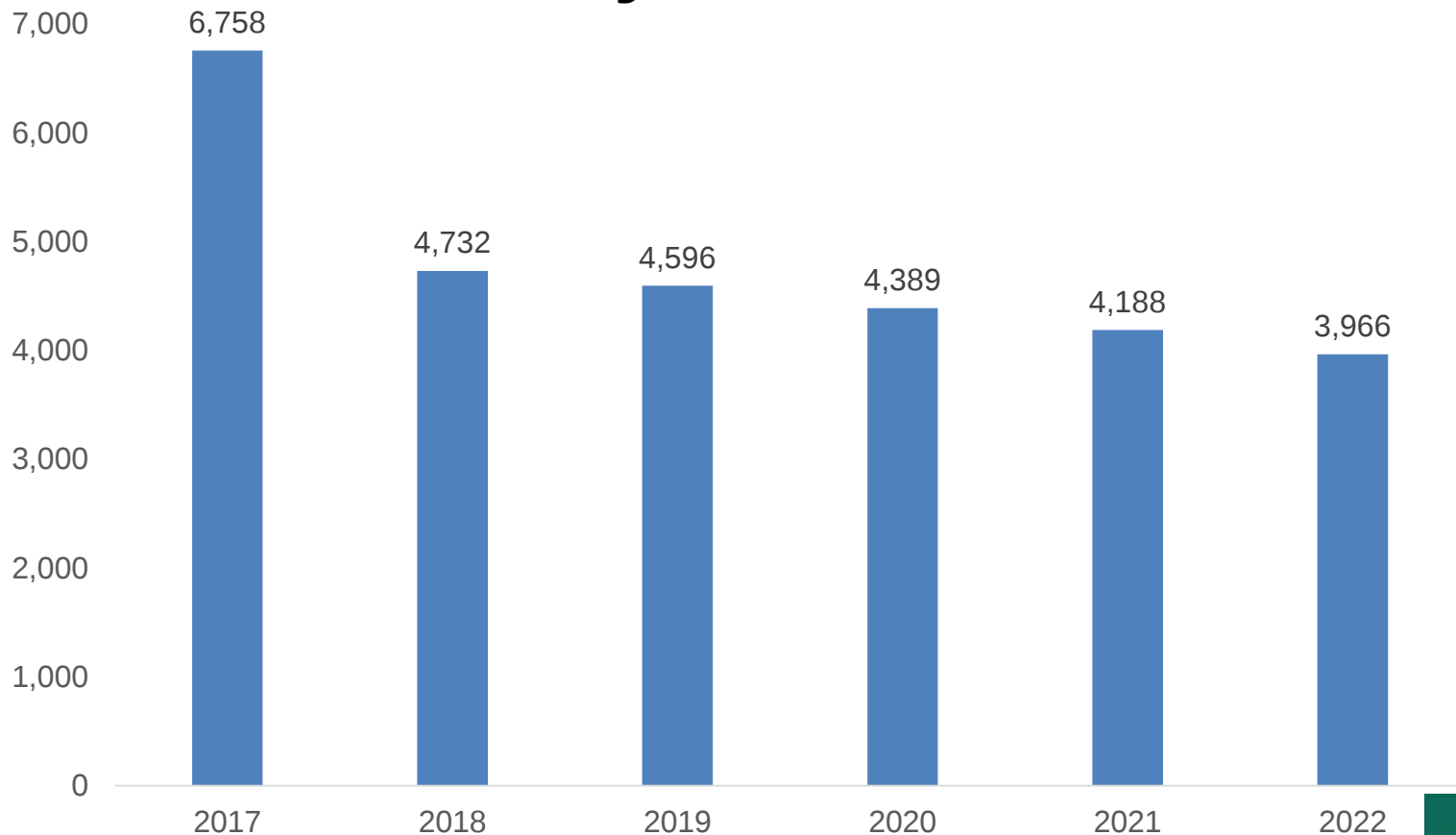
Data Source: ODH Vital Statistics January 1st 2017 – December 31st 2022. Map created and analysis performed by Epidemiology, Surveillance and Informatics at the Cuyahoga County Board of Health, May 2024. K. Moyers.



Drug Overdose Mortality—Summary

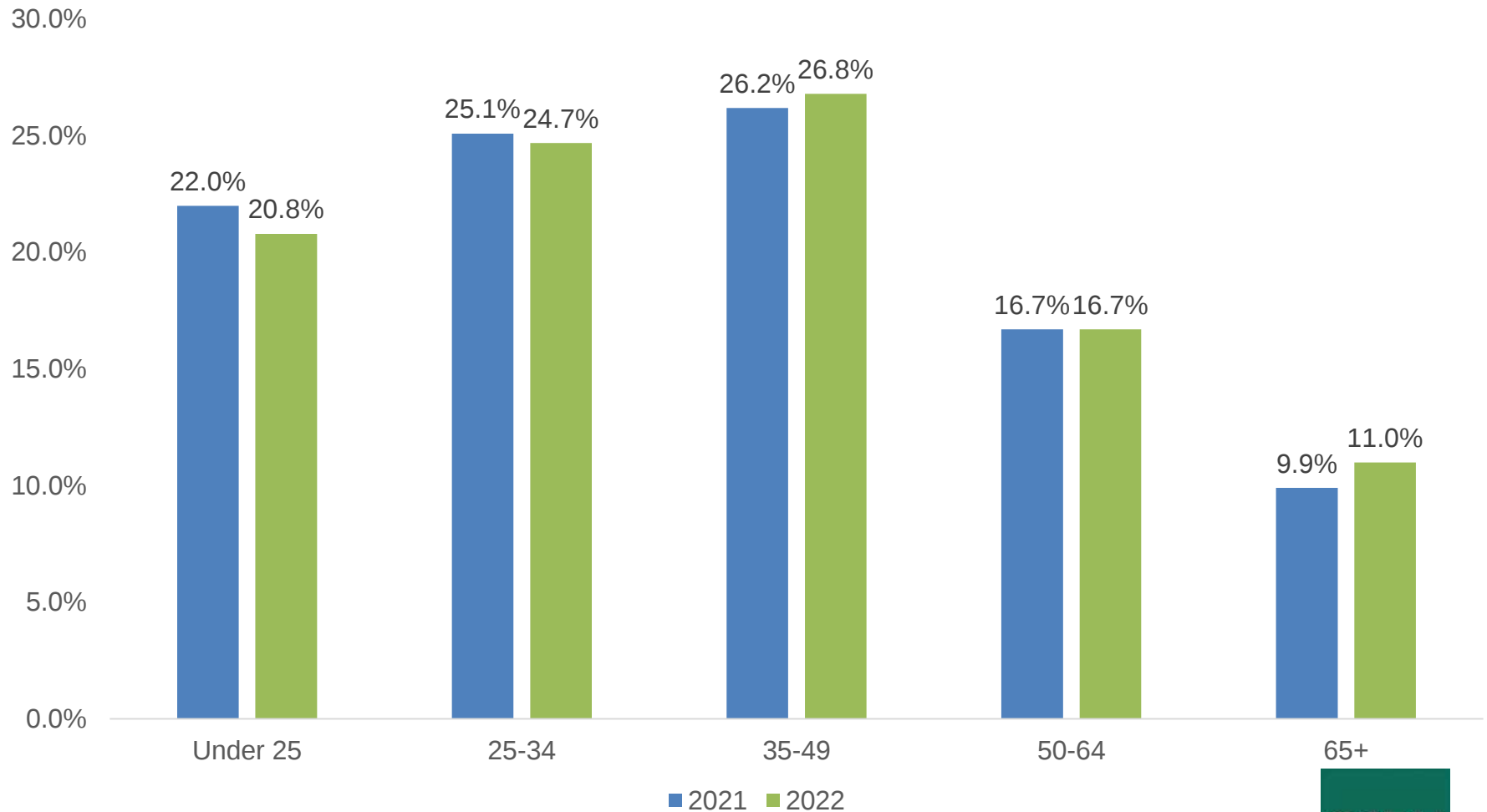
- In 2022, 54% of unintentional deaths in Cuyahoga County were due to drug overdose
- Males were consistently more likely to die from an UDOD and visit the ED for a suspected drug overdose compared to females
- Non-Hispanic Black males had the highest rate of UDOD
- Hispanics continue to have a higher rate of UDOD compared to the White population
- 84% of all UDOD involved fentanyl and/or fentanyl analogues

Total Emergency Department (ED) Visits for Suspected Drug Overdoses in Cuyahoga County, 2017-2022



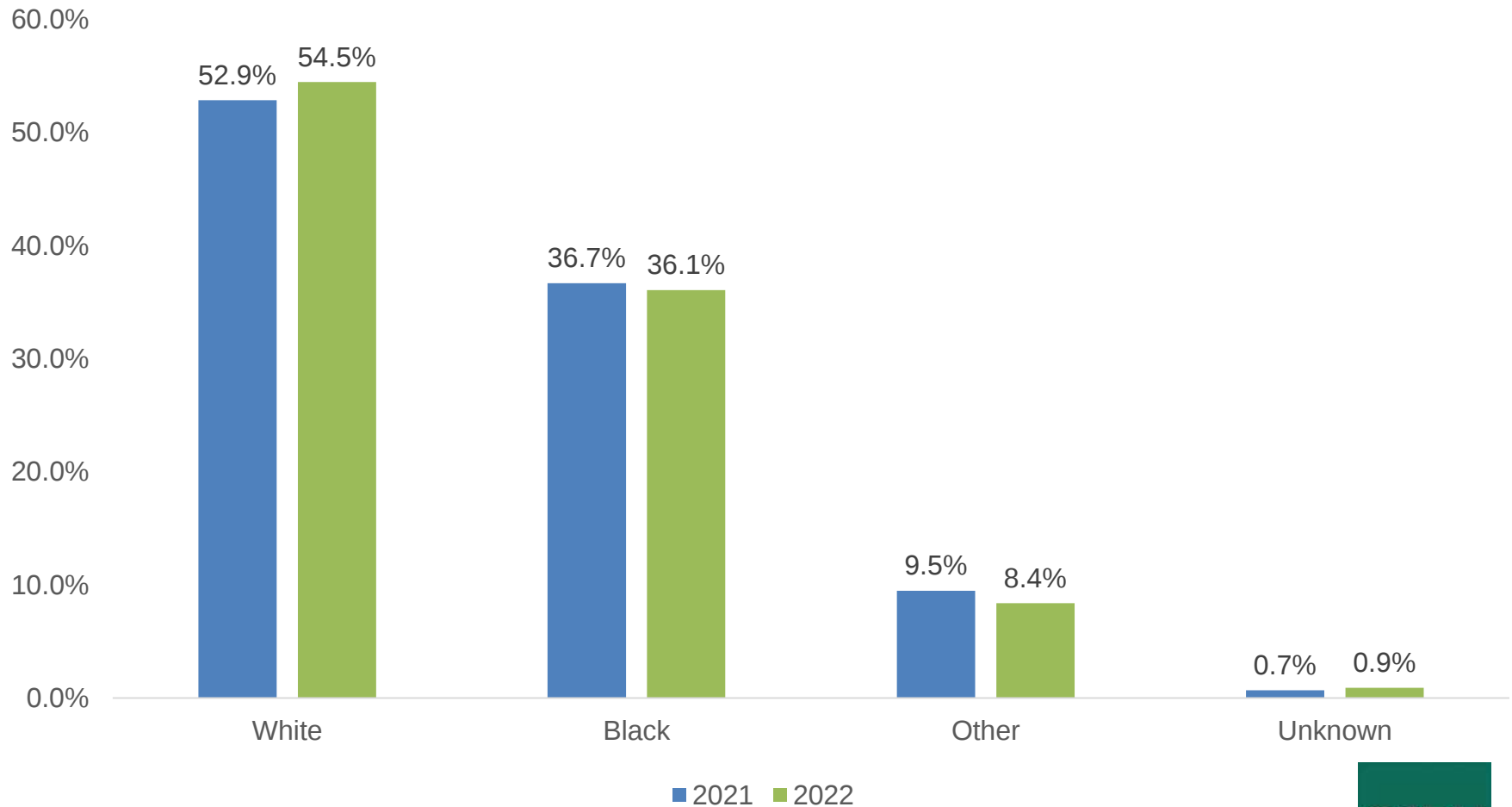
CCBH

Drug Overdose ED Visits by Age, 2021-2022

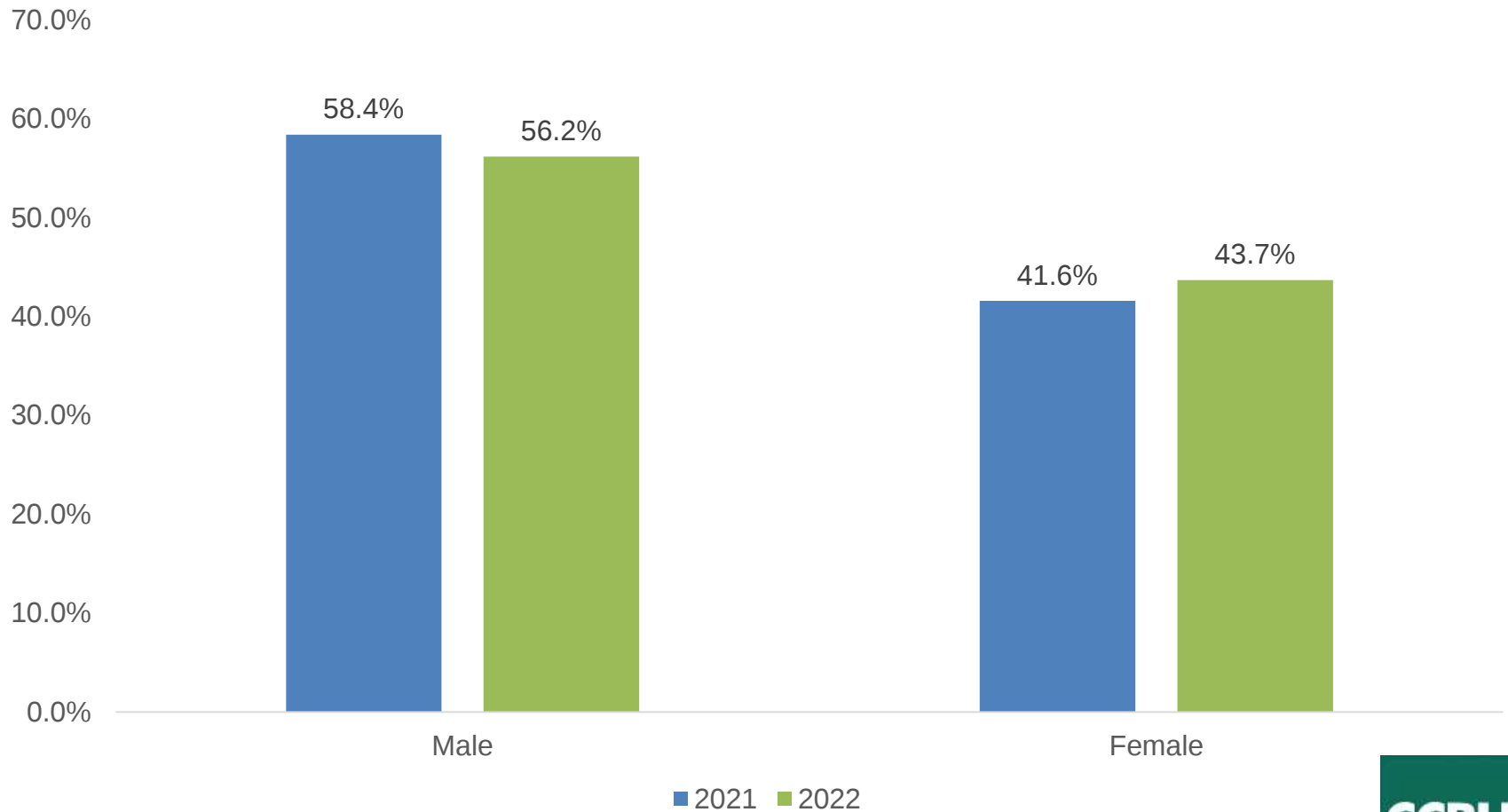


CCBH

Drug Overdose ED Visits by Race, 2021-2022



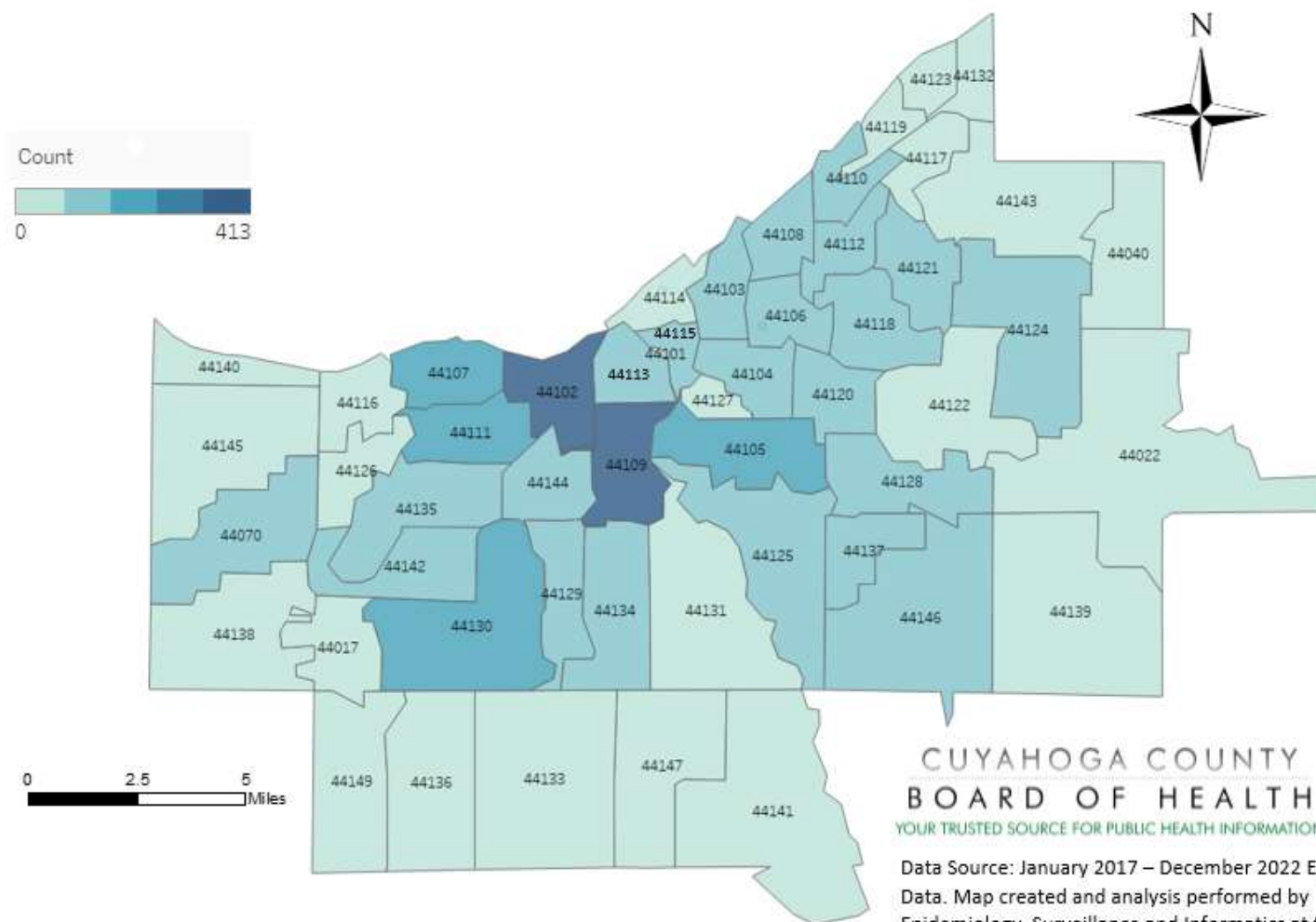
Drug Overdose ED Visits by Sex, 2021-2022



Age-Specific Rates for ED Visits for All Drug Overdoses, 2017-2022

	Black Females	White Females	Black Males	White Males
Under 25	123.0	107.0	81.1	85.3
25-34	82.9	90.3	138.7	153.4
35-49	81.9	100.2	207.9	161.0
50 and Over	46.6	26.7	116.3	38.1

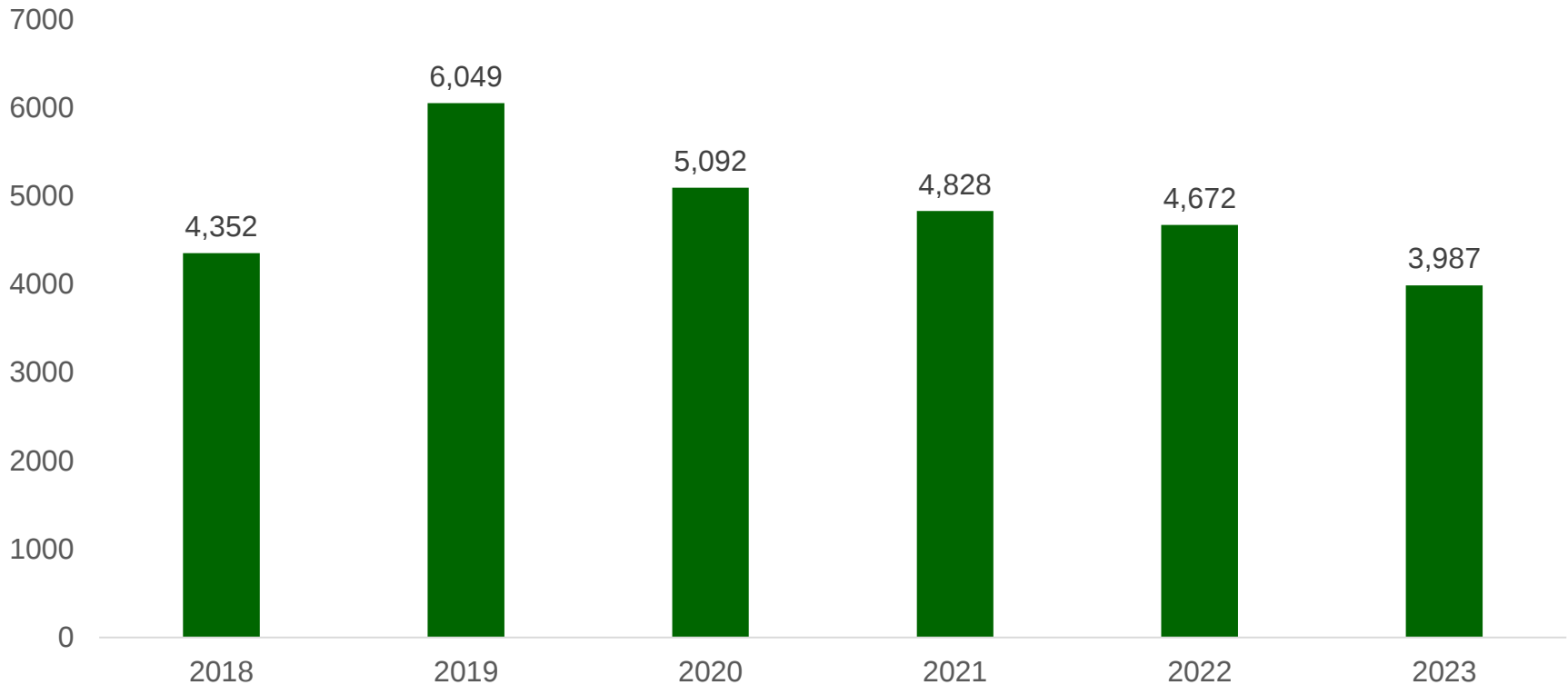
ED Visits for Suspected Drug Overdose by ZIP Code, Cuyahoga County 2017-2022



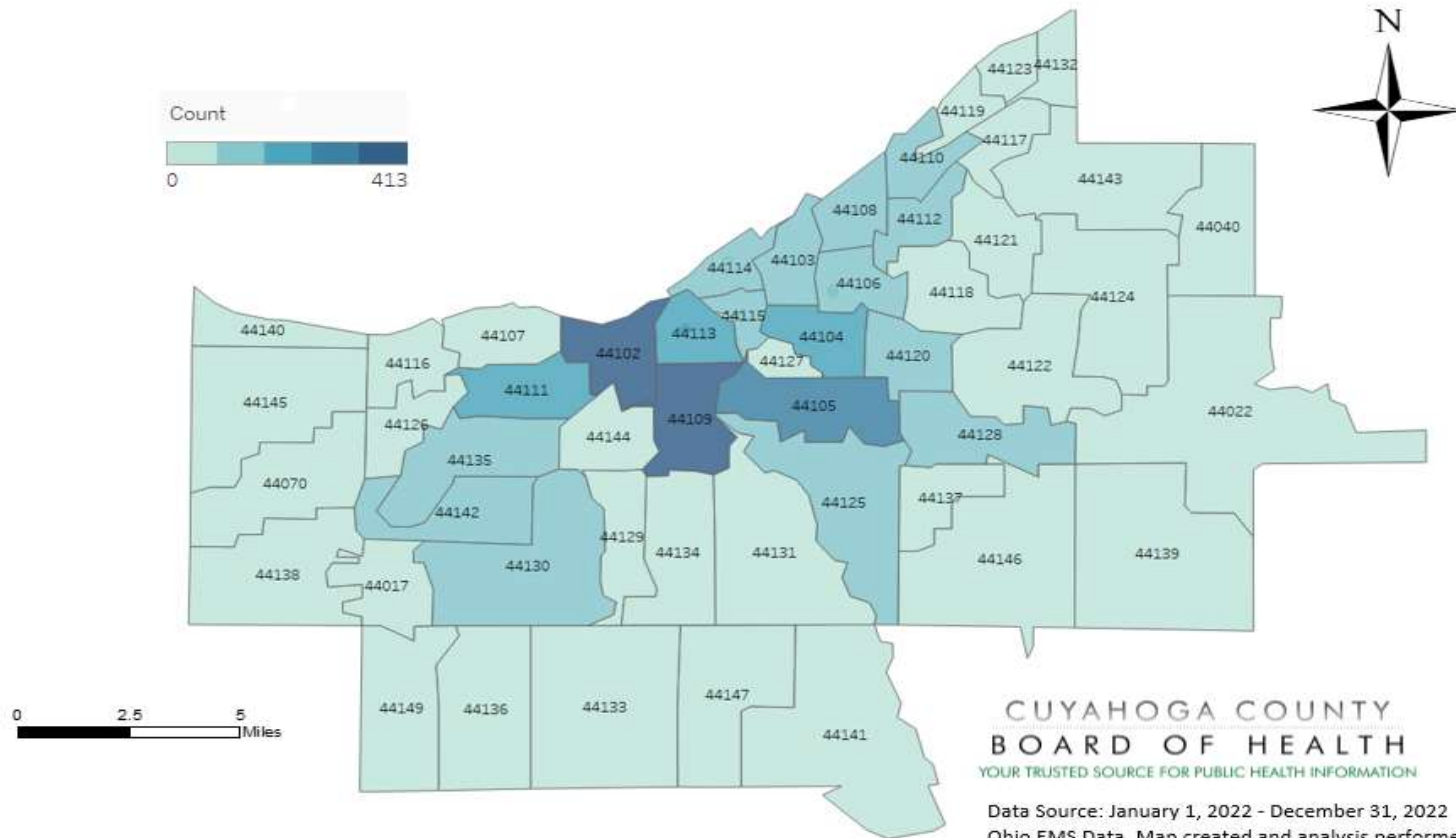
Data Source: January 2017 – December 2022 EpiCenter Data. Map created and analysis performed by Epidemiology, Surveillance and Informatics at the Cuyahoga County Board of Health, April 2024. K. Moyers.



Emergency Medical Services (EMS) Naloxone Administrations in Cuyahoga County, 2018-2023*



EMS Naloxone Administrations by ZIP Code, Cuyahoga County 2022*



Data Source: January 1, 2022 - December 31, 2022
Ohio EMS Data. Map created and analysis performed by
Epidemiology, Surveillance and Informatics at the
Cuyahoga County Board of Health, April 2024. K. Moyers.



Drug Overdose Morbidity—Summary

- Key populations at risk include: Black males 35 and older, young to middle age white males, and Black females under 25
- City of Cleveland had the highest number of ED visits due to drug overdose and EMS naloxone administrations
- Naloxone doses administered by EMS continue to decrease, along with ED visits for suspected drug overdoses

Strengths and Limitations of DOIEP

- Strengths:
 - Examination of fatal and nonfatal drug overdoses
 - Robust datasets
 - Detailed analyses
- Limitations:
 - Time lag in data release for both Census and Vital Statistics data
 - EpiCenter may underreport due to classifiers not capturing all overdoses and facilities temporarily being out of surveillance
 - Not all EMS agencies report to EMSIRS

2024 Preliminary Results

- Total number of ED visits for suspected drug overdoses continued to decrease throughout the remainder of 2023
- The Cuyahoga County Medical Examiner's Office is currently projecting to have the lowest number of overdose fatalities that they have seen in the past decade

THANK YOU!

Visit our Overdose Data Dashboard webpage here:
<https://www.ccbh.net/overdose-data-dashboard/>

Program Contacts:

Samantha Smith, MA, MS – ssmith@ccbh.net

Kenya Moyers, MPH – kmoyers@ccbh.net

Svetlana Zelenskiy, PhD – szelenskiy@ccbh.net

This project is supported by the Overdose Data to Action (OD2A) grant funded by the Centers for Disease Control and Prevention (CDC).



Local Data, Local Partners, Local Solutions

