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# Summary of CTVDRS data for CDC Visit to DPH

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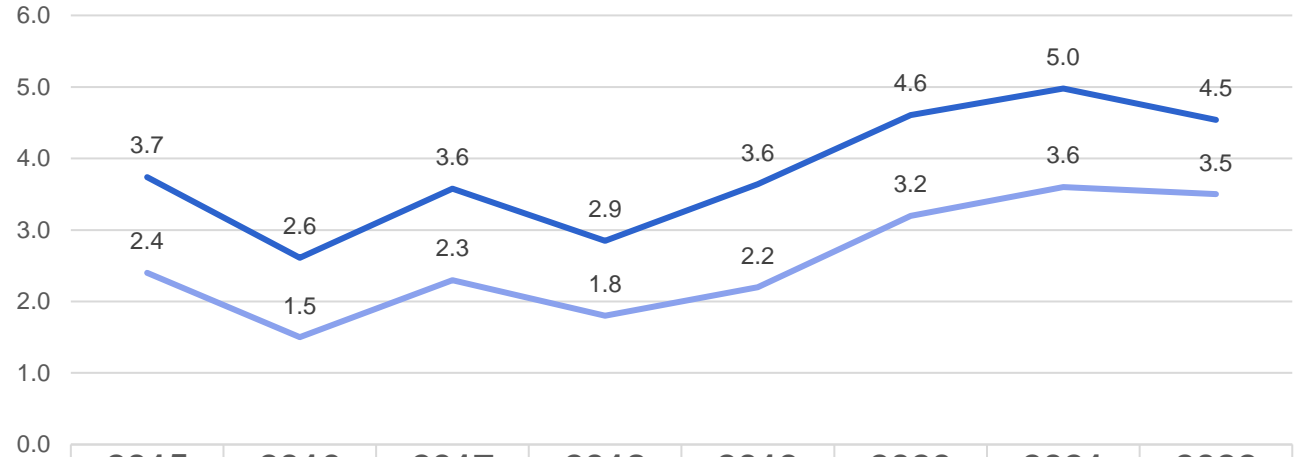
# Introduction

- DPH Injury and Violence Surveillance Unit - since 2014
- Data Sources:
  - Connecticut Violent Death Reporting System – since 2015
    - Homicide
    - Suicide
    - Undetermined Intent
    - Legal Intervention
    - Unintentional Firearm Deaths
  - Hospital Discharge Dataset (aka CHIME)
    - Emergency Department (ED) Records
    - Hospitalizations
    - This presentation sums up ED and hospital records

# Connecticut Homicide Data

# HOMICIDE RATES

## Age Adjusted Homicide and Firearm Rates 2015 to 2022



— Homicide Age Adj Rate

— Firearm Age Adj Rate

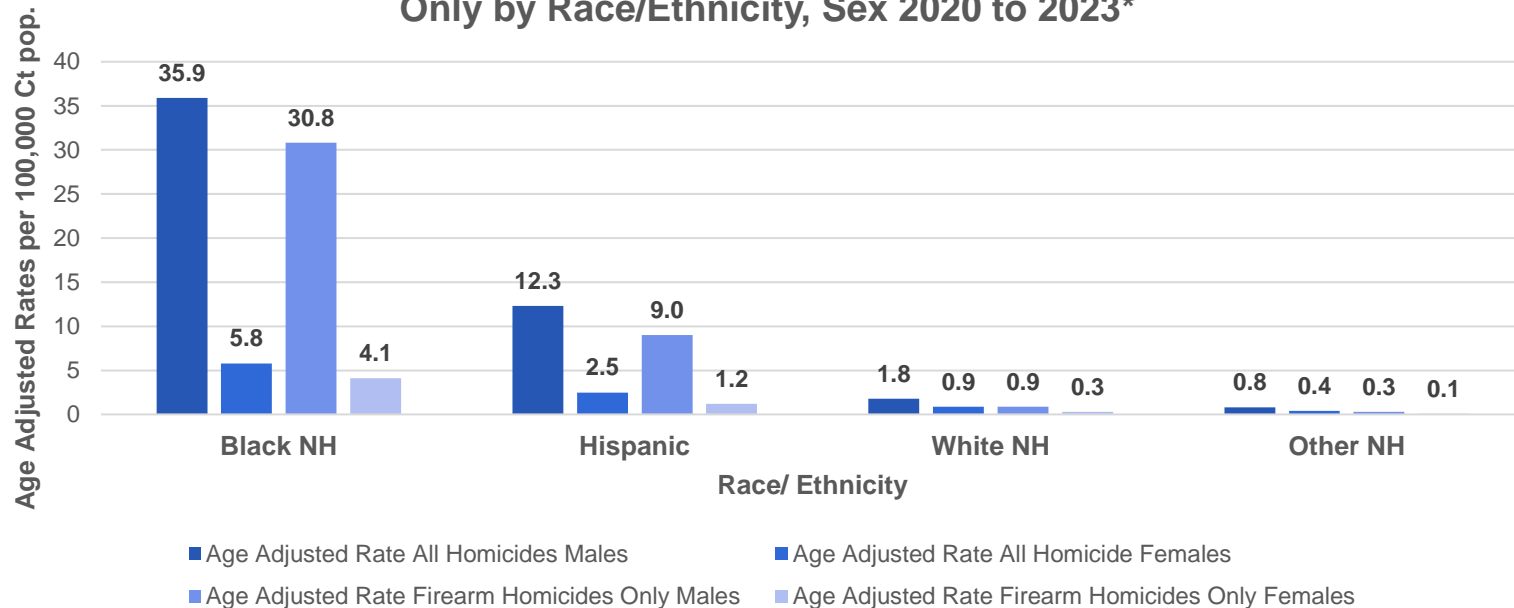
— Homicide Age Adj Rate

— Firearm Age Adj Rate

Data Source: Connecticut Violent Death Reporting System

# HOMICIDE RATES BY SEX, RACE, AND ETHNICITY

Age Adjusted Rates for Homicides (all lethal means) and by Firearms  
Only by Race/Ethnicity, Sex 2020 to 2023\*



\* 2023 data are preliminary; Used 2022 population data for 2023 rates

NH is non-Hispanic

Data Source: Connecticut Violent Death Reporting System

## COMPARISON OF HOMICIDE RATES PER 100,000 POPULATION BY RACE AND ETHNICITY FOR TWO TIME PERIODS

Race/ Ethnicity	5-Year Avg. No. of Homicides	Age-Adj. Rate (95% CI)	4-Year Avg. No. of Homicides	Age-Adj. Rate (95% CI)	Rate Ratio
	2015-2019	2015-2019	2020-2023*	2020-2023*	
Non-Hispanic Black	51	13.4 (11.8 - 15.1)	81	20.4 (18.9 - 24.3)	1.52 <sup>#</sup>
Non-Hispanic White	33	1.4 (1.2 - 1.6)	26	1.4 (1.0 - 1.6)	1.00
Hispanic	27	4.6 (3.8 - 5.4)	33	6.9 (5.7 - 8.1)	1.50 <sup>#</sup>

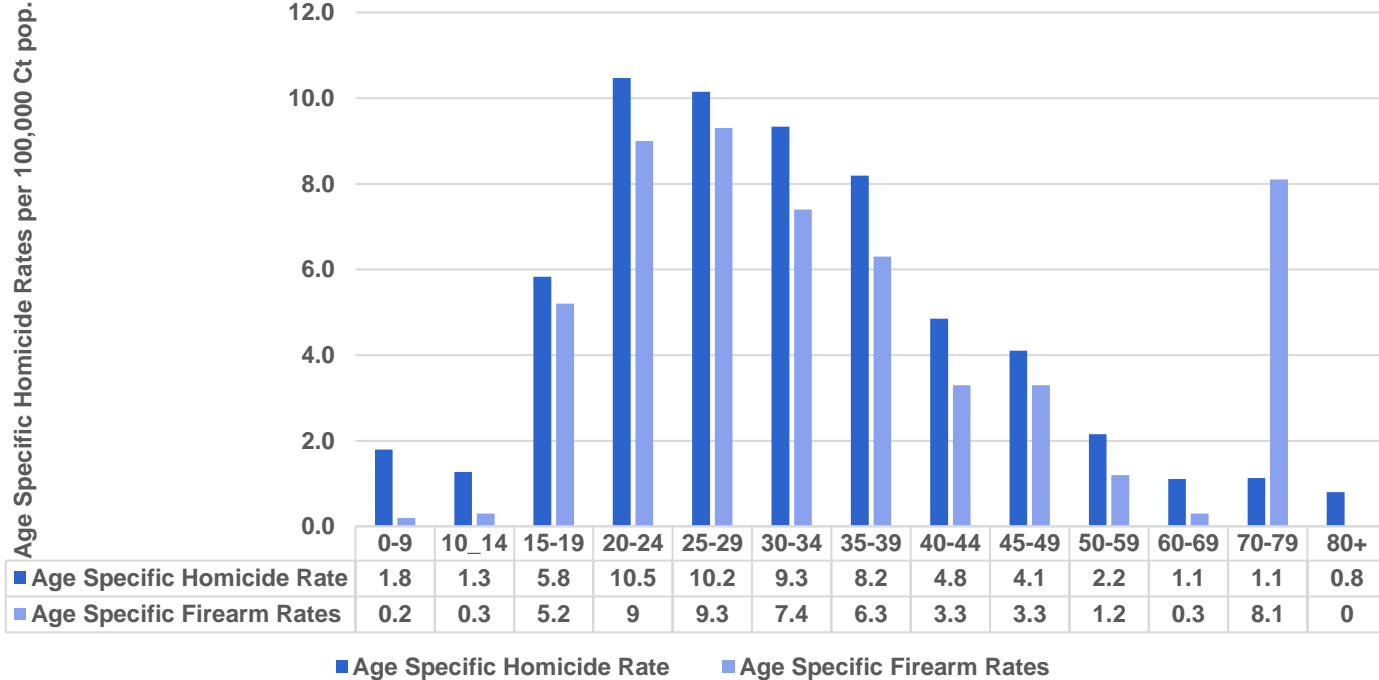
\*2023 data are preliminary; Used 2022 population data to calculate 2023 rates.

<sup>#</sup> Rates in period 2 (2020-2023\*) are significantly higher than in period 1 (2015-2019)

Data Source: Connecticut Violent Death Reporting System

# HOMICIDE RATES BY AGE GROUP

Age Specific Homicide and Firearm Rates 2020 to 2023 \*



\*2023 data are preliminary; Used 2022 population data for 2023 rates

Data Source: Connecticut Violent Death Reporting System



## COMPARISON OF HOMICIDE RATES PER 100,000 CONNECTICUT POPULATION BY LETHAL MEANS FOR TWO TIME PERIODS

	5-Year Avg. No. of Homicides	Age Adj. Rate of Homicides (95% CI)	4-year Avg. No. of Homicides	Age Adj. Rate of Homicides (95% CI)	Rate ratio
	2015-2019	2015-2019	2020-2023*	2020-2023*	
Number of Homicides	112	<b>3.29 (3.02 - 3.56)</b>	159	<b>4.67 (4.31 - 5.03)</b>	<b>1.42<sup>#</sup></b>
Number of <b>Firearm</b> Homicides	68	<b>2.05 (1.83 - 2.26)</b>	114	<b>3.39 (3.08 - 3.70)</b>	<b>1.65<sup>#</sup></b>
Number of Sharp Force Homicides (Stabbing)	15**	<b>0.43 (0.34 - 0.52)</b>	20	<b>0.55 (0.43 - 0.67)</b>	<b>1.28</b>

\* 2023 data are preliminary; Used 2022 population data for 2023 rates.

\*\* Rates calculated from counts less than 20 should be viewed with caution because of statistical unreliability; <sup>#</sup> Rates in period 2 (2020-2023) are significantly higher than in period 1 (2015-2019)

Data Source: Connecticut Violent Death Reporting System

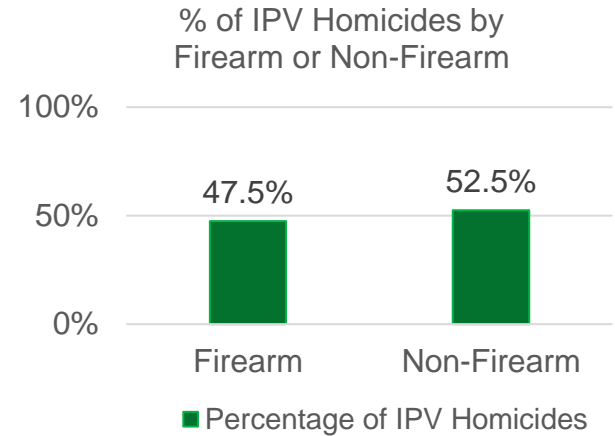
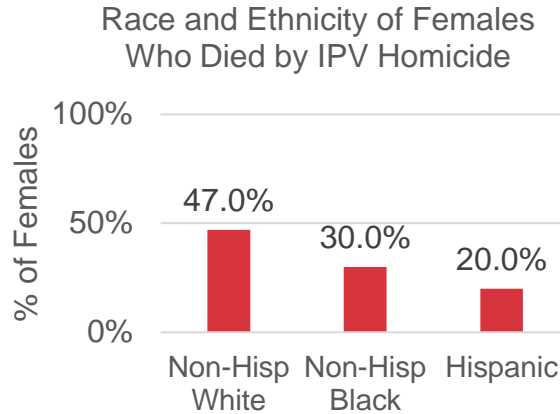
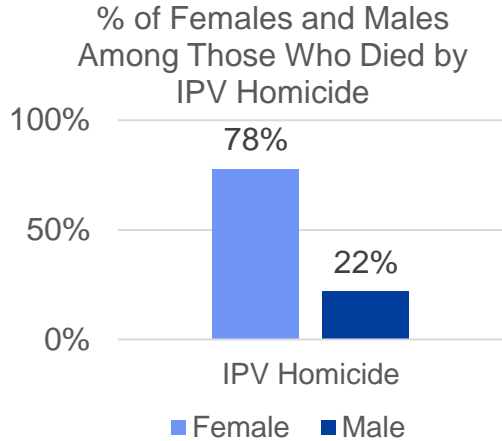
## CIRCUMSTANCES ASSOCIATED WITH HOMICIDE (2020-2022)

Circumstances	Percentage of <b>All</b> Homicides	Percentage of <b>Firearm</b> Homicides
Disputes/Arguments	33%	31%
Assault	24%	20%
Drug Involvement	17%	15%
Drug Trade	9%	12%
Robbery	9%	9%
Victim Targeted	6%	8%

Data Source: Connecticut Violent Death Reporting System

# INTIMATE PARTNER VIOLENCE STATISTICS

- There were 141 intimate partner violence (IPV) homicides between 2015 and 2023\*
- Average of 14 to 16 IPV homicides per year



Note: Of the non-firearm IPV homicides, 29.1% were due to stabbing.

\* 2023 data are preliminary

Data Source: Connecticut Violent Death Reporting System

## CONNECTICUT CITIES (INJURY CITY) RANKED BY HOMICIDE RATE, 2018 TO 2022

Injury City*	All Homicide Age-Adj. Rate per 100,000 City Population**	Firearm Homicide Age-Adj. Rate per 100,000 City Population**	Non-Firearm Homicide Age-Adj. Rate per 100,000 City Population**
Hartford	26.5 (22.1 - 30.9)	18.3 (15.0 - 21.6)	4.7 (3.0 - 6.4)
New Haven	13.1 (10.3 - 15.9)	11.1 (8.6 - 13.6)	2.0**
Bridgeport	12.0 (9.5 - 14.5)	9.9 (7.8 - 12.0)	2.1**
Waterbury	10.7 (8.0 - 13.4)	7.9 (5.6 - 10.2)	2.7**

\* Table includes injury cities with 15 or more homicides from 2018 to 2022.

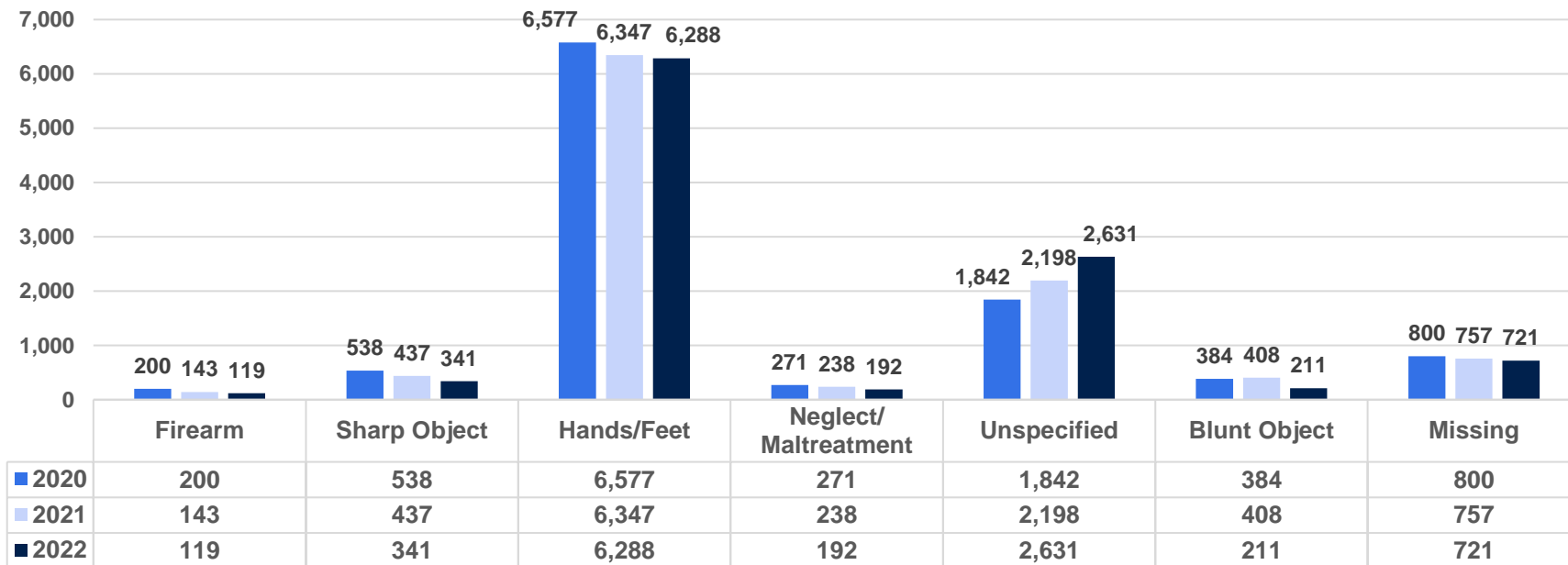
\*\* Rates calculated from counts less than 20 should be viewed with caution because of statistical unreliability; Used 2022 population data for 2023 rates.

Data Source: Connecticut Violent Death Reporting System

# Connecticut Nonfatal Assault Injuries

# NONFATAL ASSAULT INJURIES

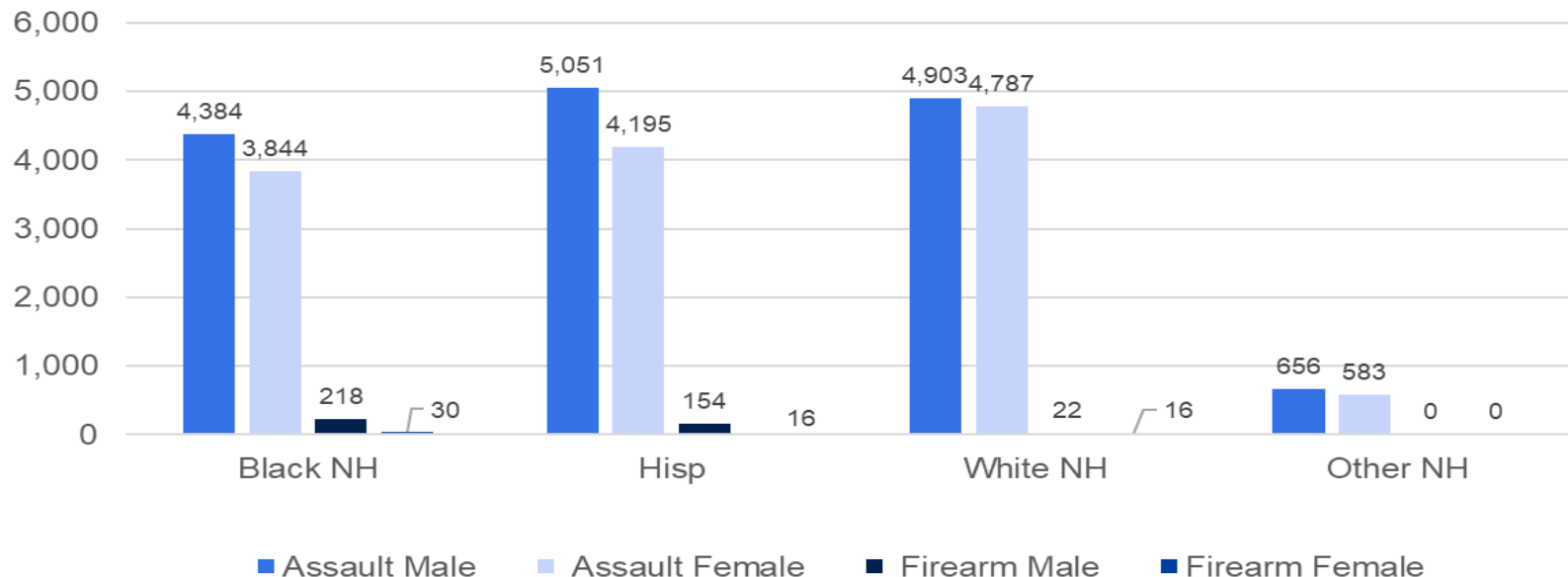
## Number of Assault related Emergency Department Visits and Hospitalizations by Weapon Type, Connecticut 2020-2022



Data source: Connecticut Hospital Discharge Data

# NONFATAL FIREARM INJURIES AND ASSAULT

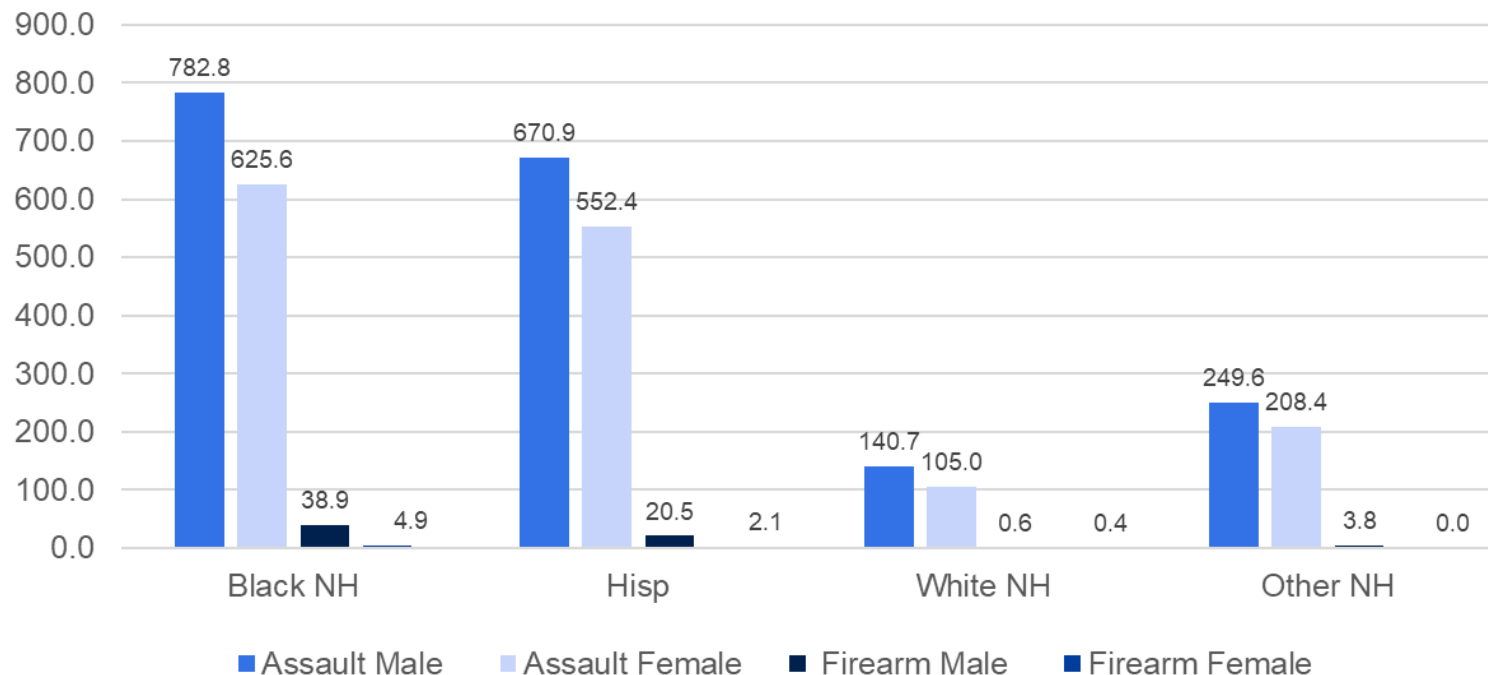
**Number of Nonfatal Assault and Firearm Assault related Emergency Department Visits and Hospitalizations, by Race/Ethnicity and Sex, Connecticut 2020-2022**



Data source: Connecticut Hospital Discharge Data

# NONFATAL FIREARM INJURIES AND ASSAULT

Rate of Nonfatal Assault and Firearm Assault related Emergency Department Visits and Hospitalizations per 100,000  
Connecticut Population, by Race/Ethnicity and Sex, 2020-2022



Data source: Connecticut Hospital Discharge Data



## CONNECTICUT CITIES (RESIDENCE CITY) RANKED BY NONFATAL ASSAULT RATE, 2018 TO 2022

Residence City	Nonfatal <b>Firearm</b> Assault Age-Adj. Rate per 100,000 City Population* (95%CI)		Nonfatal <b>All</b> Assault Age-Adj. Rate per 100,000 City Population* (95%CI)
Hartford	54.7 (53.3 - 56.1)		1 1,335.0 (1,296.1 - 1,373.9)
Bridgeport	43.7 (39.1 - 48.3)		4 576.2 (559.3 - 593.2)
New Haven	38.7 (34.4 - 43.0)		2 649.9 (631.1 - 680.7)
Waterbury	36.7 (31.6 - 41.8)		3 601.1 (580.7 - 621.5)
Meriden	18.3 (13.4 - 23.2)		6 256.3 (238.6 - 274.0)
Hamden	17.8 (12.9 - 22.7)		7 248.1 (230.4 - 265.8)
New Britain	13.7 (10.1 - 17.3)		5 287.2 (271.3 - 303.1)
Stamford	5.2 (3.4 - 7.0)		8 213.9 (202.5 - 225.3)

\* Used 2022 population data for rates.

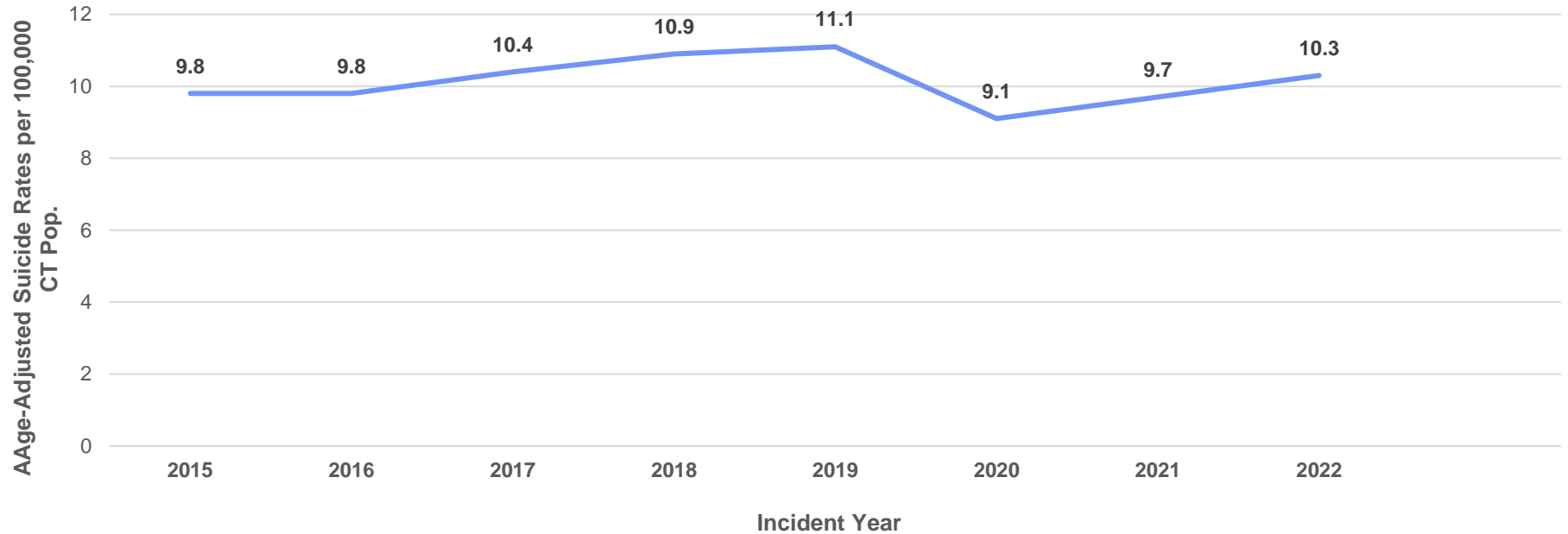
Table includes cities with 50 or more residents who were injured by firearm assault between 2018 and 2022.

Data Source: Connecticut Hospital Discharge Data

# Suicide Trends

# Suicide Trends 2015 to 2022

CT Age-Adjusted Suicide Rates per 100,000 Connecticut pop.



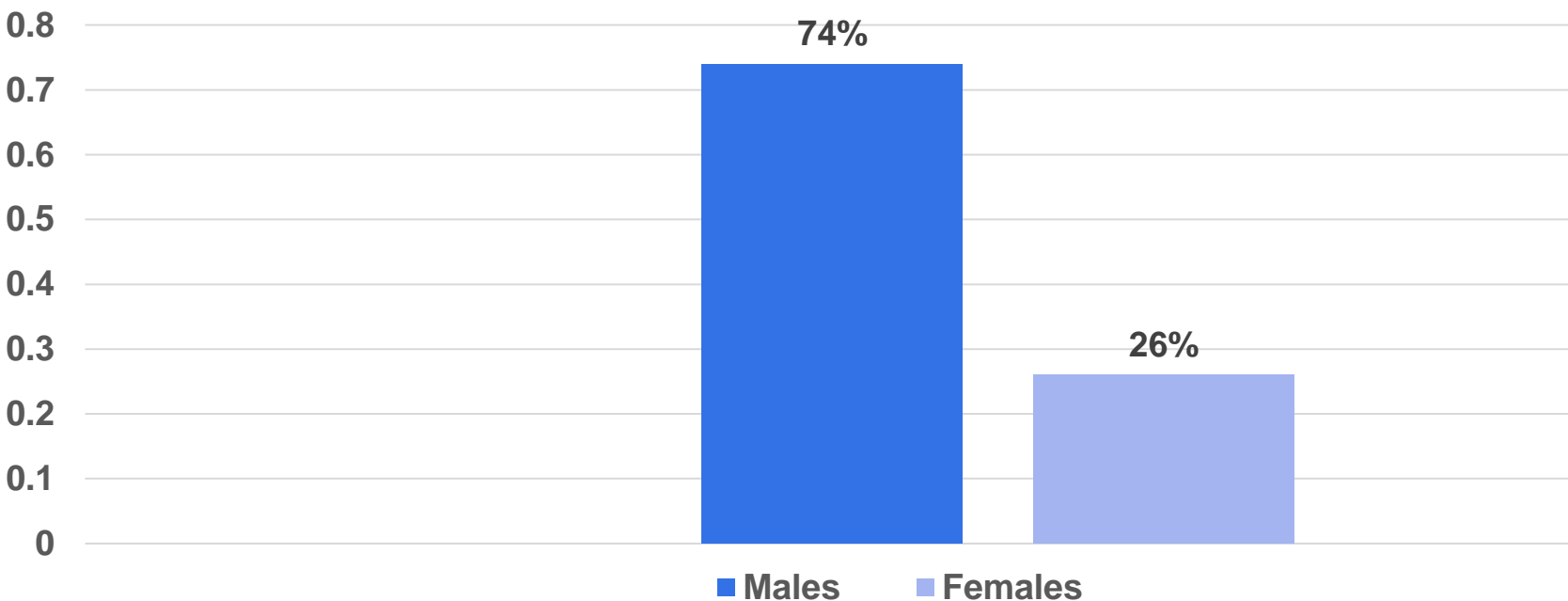
Data Source: Connecticut Violent Death Reporting System; used 2022 population data to calculate rates

## Age Specific Suicide Rates 2020 to 2023\*

Age Group (in years)	Number of Suicides 2020-2023*	Yearly 4- Year Average (2020-2023)	Age-Specific Rate 2020-2023* per 100,000 CT pop.
10-17	38	10	2.7
18-24	110	28	7.9
25-44	441	110	12.2
45-64	576	142	14.5
65+	339	85	13.0

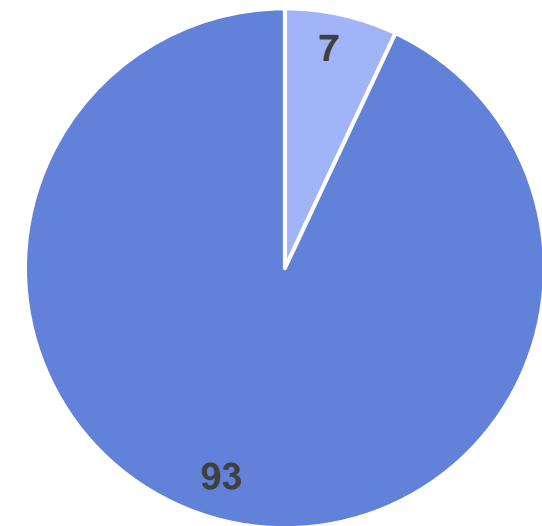
Data Source Connecticut Violent Death Reporting System; Used 2022 population data for 2023 rates

## Demographics(Percentage of Suicides)in CT by Sex 2015 to 2022

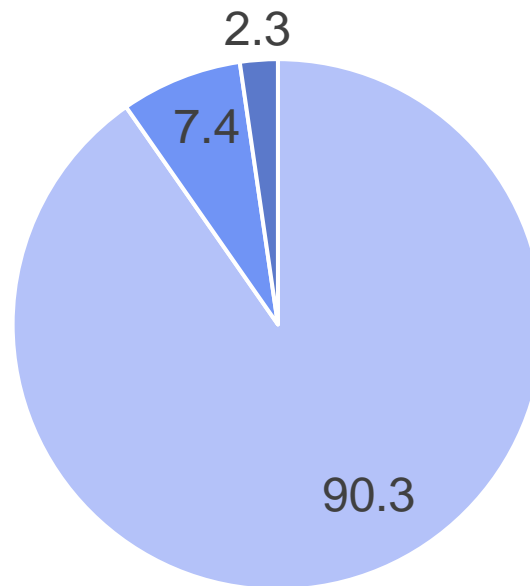


Data Source Connecticut Violent Death Reporting System

## Demographics of Suicides in Connecticut, by Race and Ethnicity 2015 to 2022



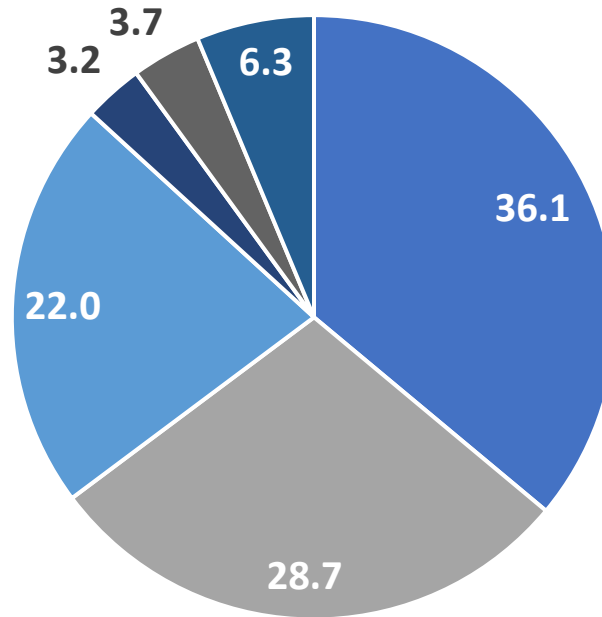
■ Hispanic ■ Non-Hispanic



■ White ■ Black ■ Other

Data Source Connecticut Violent Death Reporting System

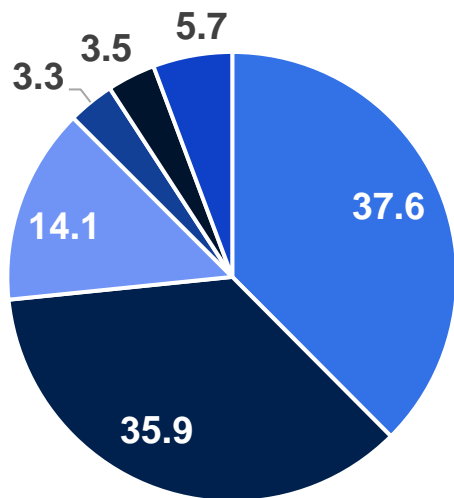
# Lethal Means(Percentage of Suicides) 2015 to 2023\*



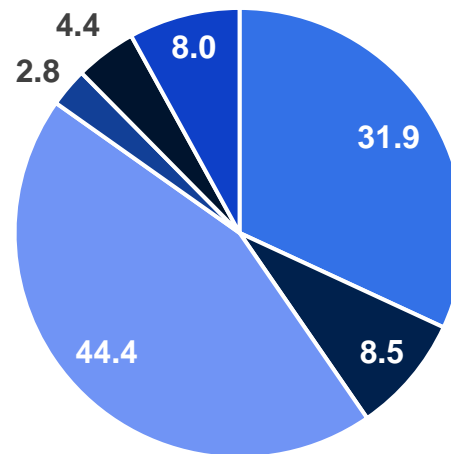
■ Hanging -Strangulation   ■ Firearm   ■ Poisoning   ■ Sharp Instrument   ■ Fall   ■ Other

Data Source Connecticut Violent Death Reporting System; 2023 data are preliminary

# Lethal Means for Suicides by Sex 2015 to 2023\*



- Hanging -Strangulation
- Firearm
- Poisoning
- Sharp Instrument
- Fall
- Other



- Hanging -Strangulation
- Firearm
- Poisoning
- Sharp Instrument
- Fall
- Other

Data Source Connecticut Violent Death Reporting System; 2023 data are preliminary



# Suicide Rates of Connecticut Cities and Towns by Resident City 2020-2023\*

- Data Source  
Connecticut Violent  
Death Reporting  
System
- Rates based on  
counts  $\geq 20$  suicides
- Rates based on  
2020 provisional town  
data
- \*2023 data are  
preliminary

Resident City	Suicide Rate per 100,000 City Population
Windham	28.7
Windsor	24.9
Norwich	17.4
Fairfield	15.2
West Haven	15.0
Bristol	14.8
Middletown	14.0
West Hartford	13.5
Norwalk	13.2
New Haven	12.7
New Britain	12.6
Waterbury	11.9
Manchester	11.7
Meriden	11.5
Hamden	11.5
Danbury	10.4
Stamford	10.1
Bridgeport	9.4
Hartford	9.1

# Risk Factors for Suicide 2015 to 2022

- 94% (N=2,985) of risk factors or circumstances are known
- Most Common Risks
  - 1) Mental Health Problem (40.2%; N=1,272) W/Diagnosis: Depression 25% (N=814); Bipolar Disorder 3.7% (N=118); Anxiety 1.8% (N= 60); Schizophrenia 1.7% (N=53);
  - 2) Depressed Mood (35.1%; N=1,112)
  - 3) Substance Misuse-Reported Alcohol & Substance Misuse (33.5%, N=1,002)
  - 4) Physical Health Problem (Acute, Chronic, Terminal Illness or Pain) (21.9%, N=655)
  - 5) Intimate Partner Problem (divorce; break-up) (19.3%, N=578)
  - 6) History of Suicidal Ideations (18.5%, N=586)
  - 7) Previous Suicide Attempt(s) (16.0%, N= 509)

Data Source Connecticut Violent Death Reporting System

## Most Frequent Substances Found in Blood at Autopsy for Suicides 2015 to 2022

### Very Common to have Multi-Drug Ingestion

Substance	Number of Incidents	Percentage of Substances Found at Autopsy
Alcohol	833	26.3
Alcohol BAC $\geq$ .08; 75% were above legal limit	625	19.7
Benzodiazepines	529	16.7
Opiates	496	15.7
Marijuana	410	12.9
Cocaine	139	4.3

Data Source Connecticut Violent Death Reporting System

# Drug Overdose Involved Suicides 2015 to 2022

## Most Drug Overdoses Involve Multi-drug Ingestion

Substance	Number of Incidents	Percentage of Fatal Overdoses	Major Drug
Antidepressants	290	43.1	
Benzodiazepines	256	38.0	
Opiates	241	35.9	Oxycodone
Antihistamines	171	25.4	Benadryl
Alcohol	130	19.3	
Non-Drug	98	14.5	Carbon Monoxide

Data Source Connecticut Violent Death Reporting System

# Questions

Please reach out to:  
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