

Governor Dan McKee's Overdose Task Force August 25, 2023

Fatal Overdose Target Setting Working Session



Welcome



Agenda

- Introduction
- Mini Data Academy: People, Place and Health Collective (PPHC), Brown University School of Public Health
 - Jesse Yedinak Gray, MPA; Assistant Dean of Education, Assistant Professor of the Practice, Department of Epidemiology, Brown University School of Public Health
 - o Brandon Marshall, PhD; Professor of Epidemiology and Director, PPHC, Brown University School of Public Health
- Overdose Data Council

Where We've Been to Current and Target Options

- Kristen St. John, MPH; Principal Public Health Epidemiologist, Substance Use Epidemiology Program, Center for Health Data and Analysis (CHDA), Rhode Island Department of Health (RIDOH)
- Macy Daly, MPA; Data Unit Reporting and Analytics Team Lead, Rhode Island Department of Behavioral Healthcare, Developmental Disabilities & Hospitals (BHDDH)

Goal Setting to Save Lives

- Christina Schulz, PhD; Health Program Administrator, Data and Analytics, Rhode Island Executive Office of Health and Human Service (EOHHS)
- Open Discussion and Feedback
- Next Steps: Where Do We Go From Here
 - Cathy Schultz, MPH; Director, Governor's Overdose Task Force, EOHHS

DATA ACADEMY

Governor's Task Force August 25, 2023

Jesse Yedinak Gray, MPA

Assistant Dean of Education

Assistant Professor of Practice, Epidemiology

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- 1. Community-Driven values
- 2. Data Storytelling
- 3. Plain Language: public health data literacy
- 4. Shared Language: counts, rates, percentages
- 5. Metrics: adding more to the story





1. Community-Driven Values





2. Data Storytelling

Data Storytelling: 3 Questions to ask

How is our story being told?

Personal stories, counts, rates, or percentages?

Is our story the same across all groups? race, age, gender, location (talk about disparities or similarities)

Is there more to this story? (add other data, benchmarks, timelines to guide action)









Plain Language: public

health data literacy







The average reading level of an adult in the US is...

- A. 5th grade
- B. 7th grade
- C. 10th grade
- D. 12th grade







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Health information in the US is usually <u>written</u> at this reading level..

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- A. 5th grade
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- D. 12th grade

Health literacy:





How we find, process, and understand the **health** information we need, and then use it to guide our individual health decisions.

Public Health Data literacy:









How we find, process and understand the public health data we need, and then to use it to guide program changes & policy-level decisions.





3. Shared Language: counts, percentages, rates

Quiz:

What statistic is being used here?

A. Count

B. Percentage

C. Rate

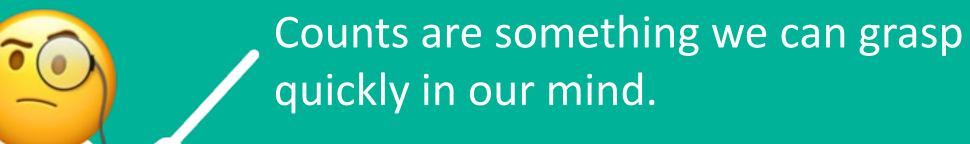
"There are 3 Dunkin' Donuts in West Greenwich"

"There are 21 Dunkin' Donuts in Providence"



Count = the total number of something

Counts are *the easiest for everyone* to understand.



We only need to know if the count should go up, down, or stay the same.



Quiz:

What statistic is being used here?

A. Count

B. Percentage

C. Rate

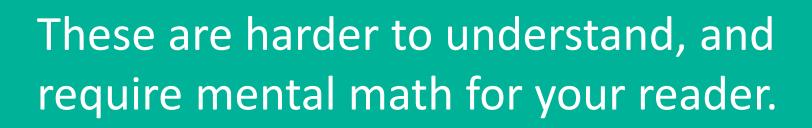
"30% of people in West Greenwich live within a 5 minute drive of a Dunkin"

"100% of people in Providence live within a 5 minute drive of a Dunkin"



Percentage = the part out of one hundred

Percentages help us understand the different parts of the whole (think slices of pizza or pie).





Quiz:

What statistic is being used here?

"West Greenwich has 50 Dunkins' **per** 100,000 people"

A. Count

B. Percentage

C. Rate

"Providence has 12 Dunkins' **per** 100,000 people"



Rate = a measure of something per some unit

Rates help us compare the same issue in two different populations (think: apples to apples).

In epidemiology we use "per 1000" or "per 100,000" to help us compare groups.

*also requires mental math, can be hard to grasp



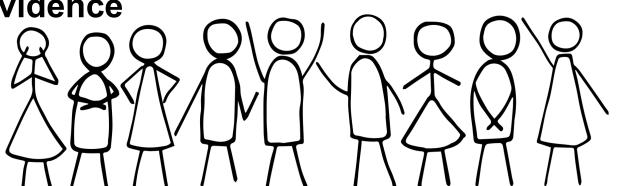


Population of West Greenwich





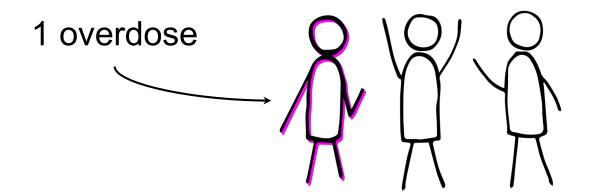
Population of Providence



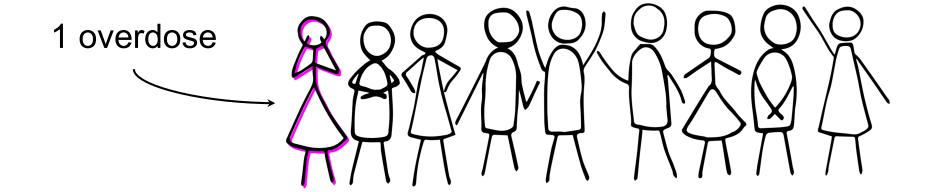




Population of Central Falls



Population of Providence





What about "rate per 100,000"??

How would we compare West Greenwich and Providence if they don't have 100,000 people!!

Rate "per 100,000" is a calculation that lets us add context to counts







4. Metrics: adding more to the story

Metric = a way to evaluate our plans

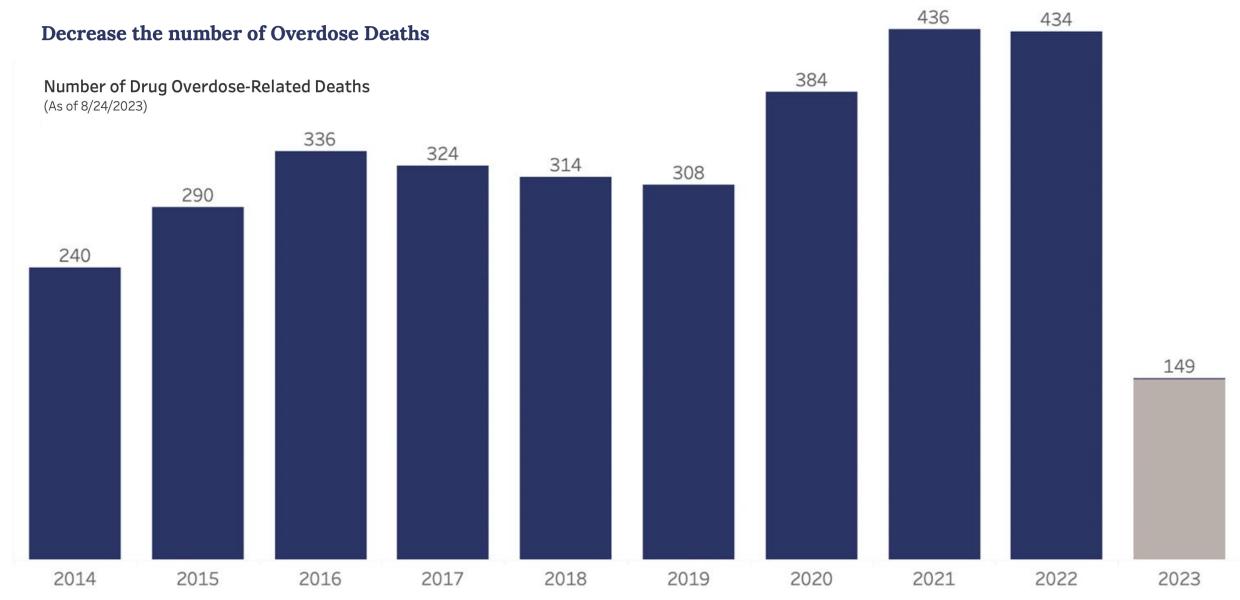
Metrics tell a story about action- where are we going next?



But, metrics still make us do mental math! Use rates and percentages with caution for public-facing metrics.



Our Main Goal:



Note: Most overdoses are confirmed within 3 months; however, sometimes toxicology test results take longer to confirm.

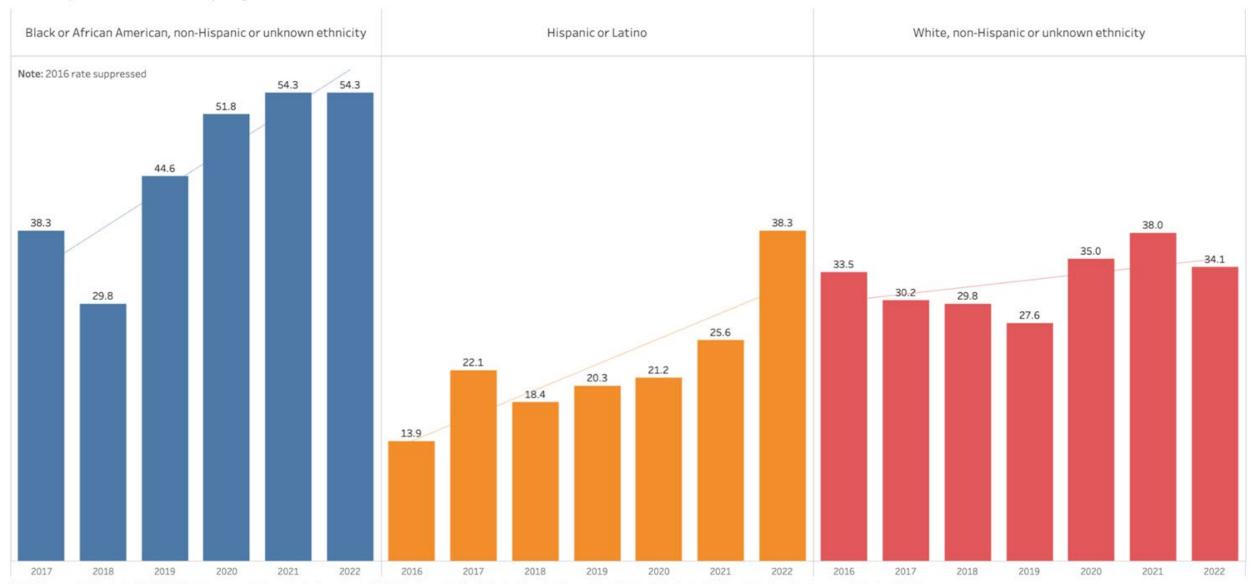
Confirmed

Unconfirmed

https://preventoverdoseri.org/the-action-plan/

Overdose Death Rate per 100,000 person-years by Race and Ethnicity, 2016 to 2022

Note: Due to approximately 7% of accidental overdose deaths missing ethnicity from 2016 to 2021, the number of overdose deaths for Hispanic persons may be undercounted. Independent of Hispanic ethnicity status, health disparities remain when comparing overdose death rates for White individuals and Black individuals.



Note: Rates are calculated using CDC WONDER single-race population estimates for each year. 2019 estimates applied for 2020 rates. The rate is the number of deaths, divided by the total population for each category, multiplied by 100,000.

Note: "Hispanic or Latino "includes people who identify as any race. All other racial and ethnic groups include people who identify as non-Hispanic ethnicity or have unknown ethnicity.

Thank you.



Join our next data academy in mid-September.

Free, no prior experience needed.

Email maxwell_krieger@brown.edu for details.

References

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PreventOverdoseRI.org





Overdose Data Council: Where We've Been to Current

Kristen St. John, MPH; Principal Public Health Epidemiologist, Substance Use Epidemiology Program, Center for Health Data and Analysis (CHDA), Rhode Island Department of Health (RIDOH)

Macy Daly, MPA; Data Unit Reporting and Analytics Team Lead, Rhode Island Department of Behavioral Healthcare, Developmental Disabilities & Hospitals (BHDDH)

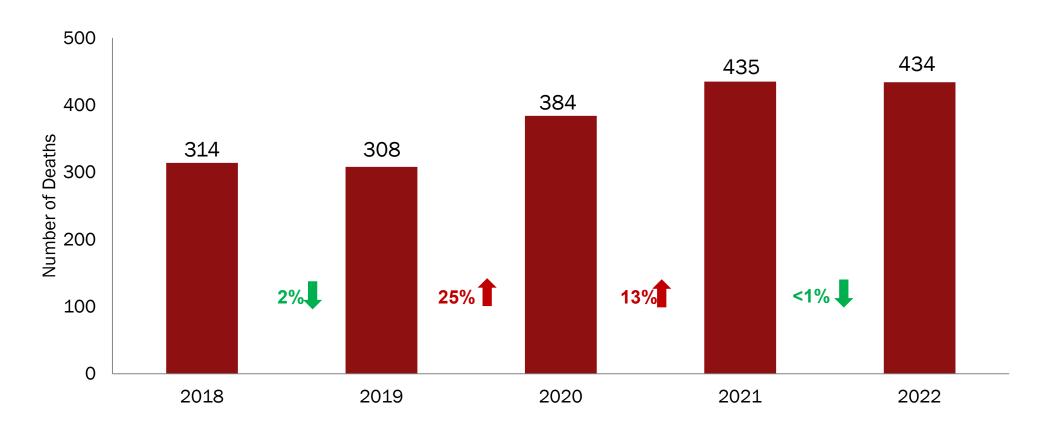


Overall Fatal Overdose

- All Fatal Overdoses
- All Overdose Death Rates by Race

All Fatal Overdoses, January 2018-December 2022

The number of people who lost their lives to a fatal overdose for which <u>any drug</u> contributed to cause of death in 2022 was <u>less than 1% lower</u> than in 2021.

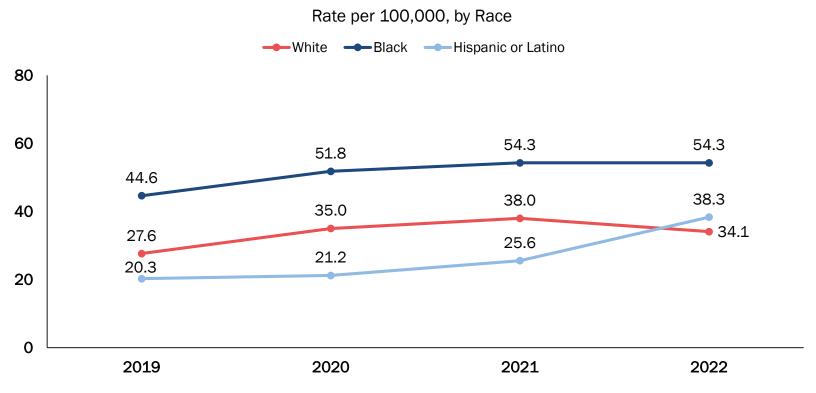




All Overdose Death Rates by Race

(CDC Wonder Totals as Denominator)

From 2021-2022, the rates of overdose deaths have remained the same for Black Rhode Islanders and have increased for Hispanic (50%) Rhode Islanders. Rate increases were most pronounced from 2019 to 2021 for white and Black Rhode Islanders and from 2021 to 2022 for Hispanic Rhode Islanders.



'Asian/PI', 'American Indian', and 'Multiracial' race categories were hidden due to yearly counts of less than 11. 'Other', 'Unknown', and 'Declined' race categories were also hidden since they were not present in the CDC Wonder data, and therefore a rate could not be calculated.

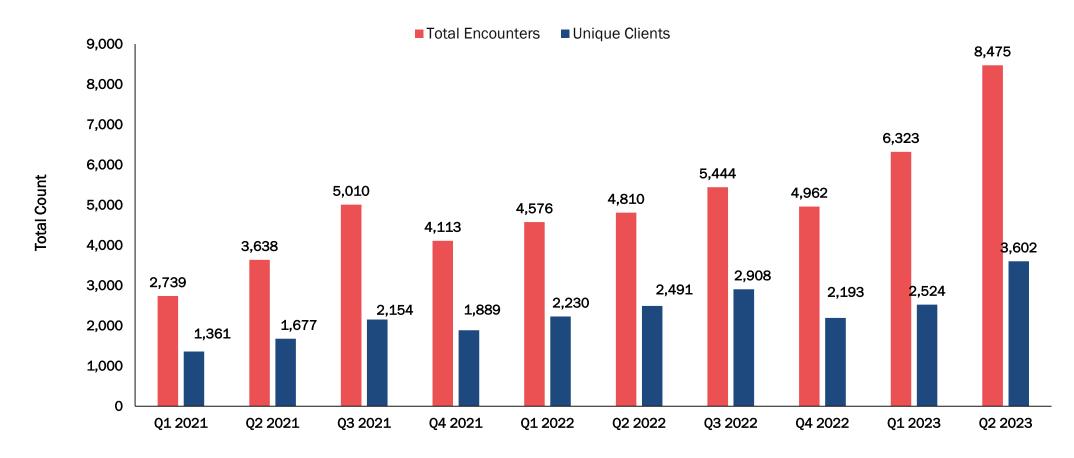


Harm Reduction

- Total Count of Encounters and Unique Clients Served
- Rate of Unique Clients Served per 100,000 Residents by Race and Ethnicity

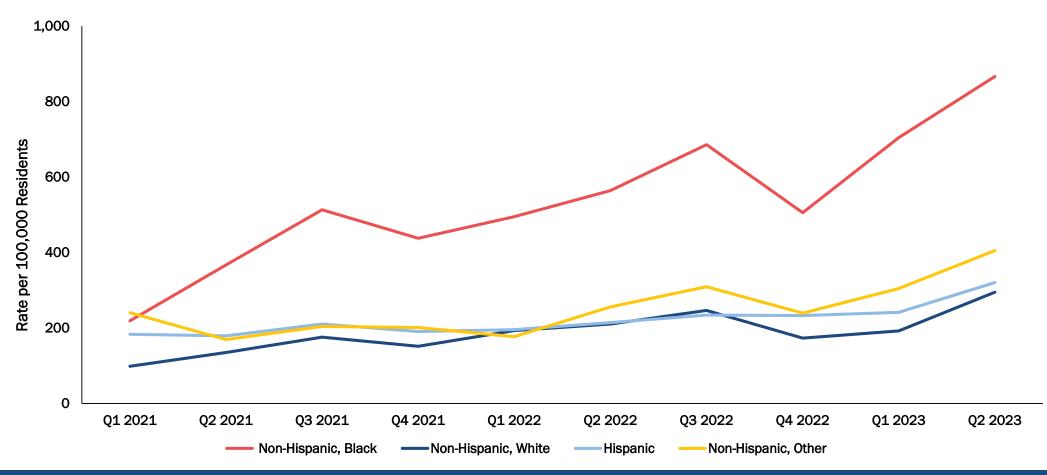
Total Count of Encounters and Unique Clients Served

The greatest number of encounters and unique clients served occurred in Quarter 2 2023 with 8,475 and 3,602, respectively.



Rate of Unique Clients Served by Race and Ethnicity

Since Quarter 2 2021, non-Hispanic, Black clients were served at the highest rates.

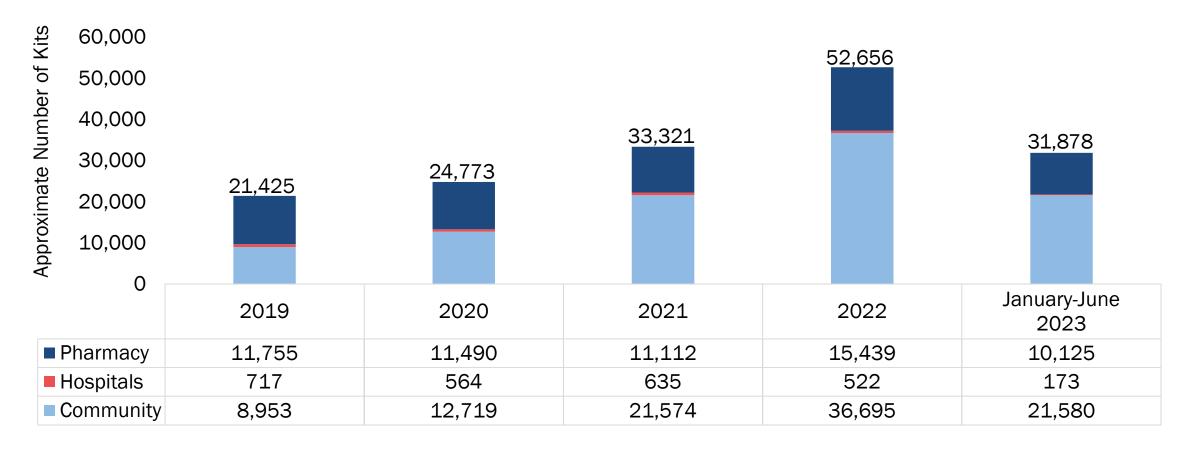


Rescue

- Number of Naloxone Kits Distributed, All Sources
- Naloxone Kit Distribution by Race and Ethnicity, Community and Hospital

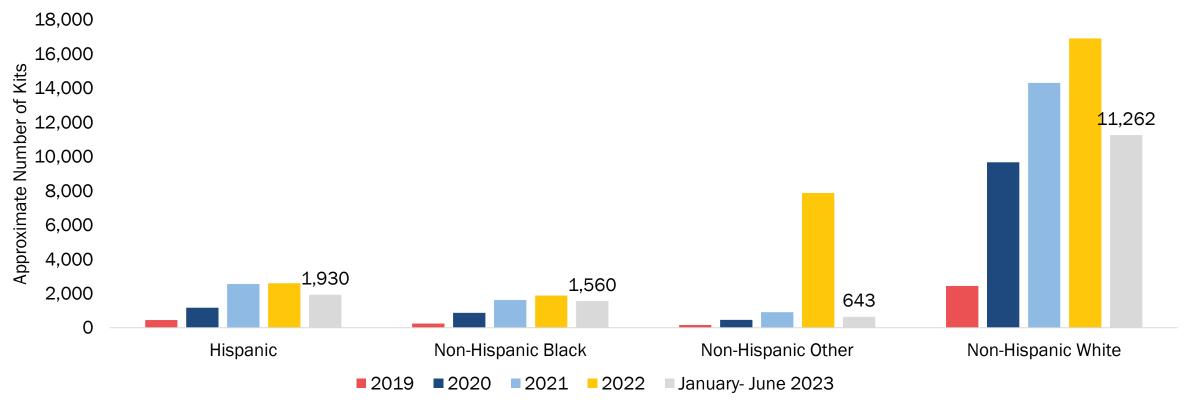
Number of Naloxone Kits Distributed, All Sources January 1, 2019-June 30, 2023

In the last three years, community-based organizations distributed more naloxone kits than any other year on record.



Naloxone Kit Distribution by Race and Ethnicity Community and Hospital Distribution, January 1, 2019-June 30, 2023

The greatest number of kits were distributed to individuals who identified as Non-Hispanic and white.

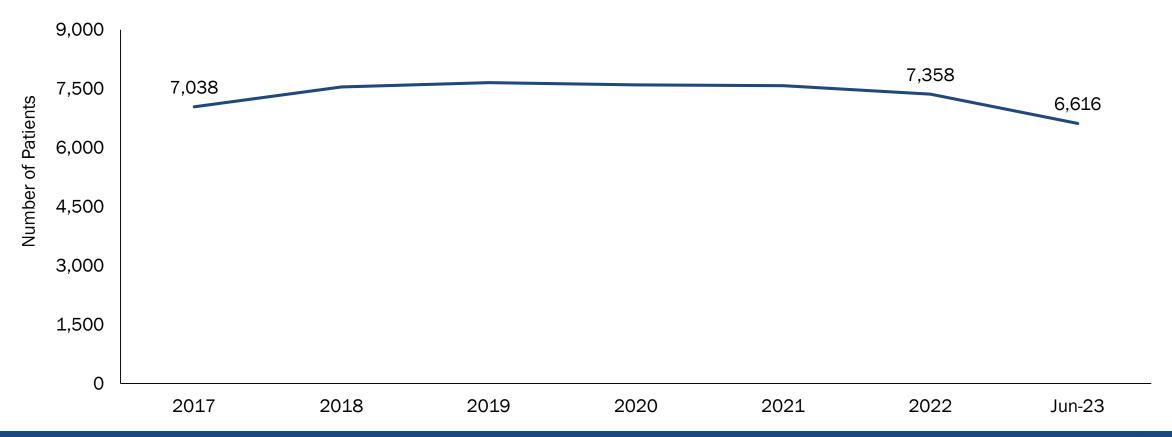


Treatment

- Patients Dispensed Buprenorphine for Medication Assisted
 Treatment (MAT)
- Rates of Sustained Buprenorphine Receipt per 100,000 by race
- Rates of Any Methadone MAT Enrollment, Receipt per 100,000
- Rates of Any Methadone MAT Enrollment by Race and Ethnicity,
 Receipt per 100,000

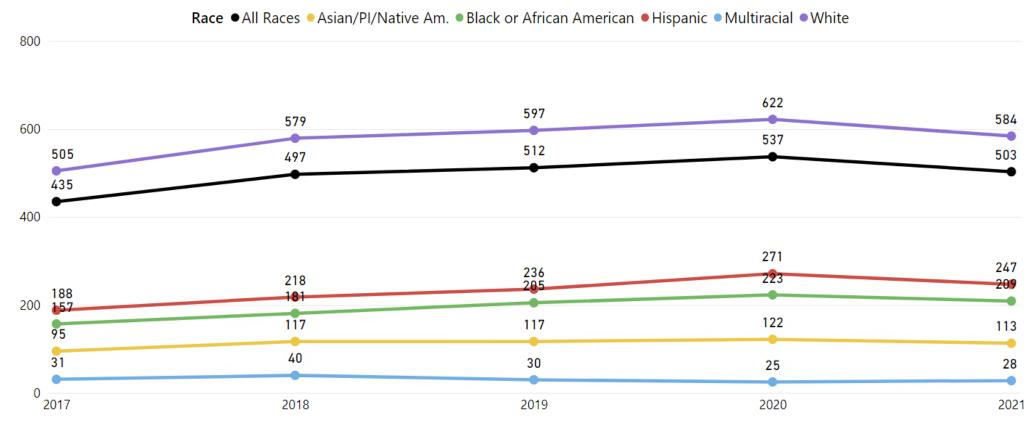
Patients Dispensed Buprenorphine, January 2017-June 2023

As of June 2023, the number of unique patients who were dispensed buprenorphine has reached 90% of what was dispensed in all of 2022.



Rates of Sustained Buprenorphine Receipt per 100,000

The rate of individuals who remained on buprenorphine for more than 6 months was at least 2-2.5 times greater among individuals who identified as white compared to individuals who identified as any other race. These rates decreased slightly between 2020-2021.

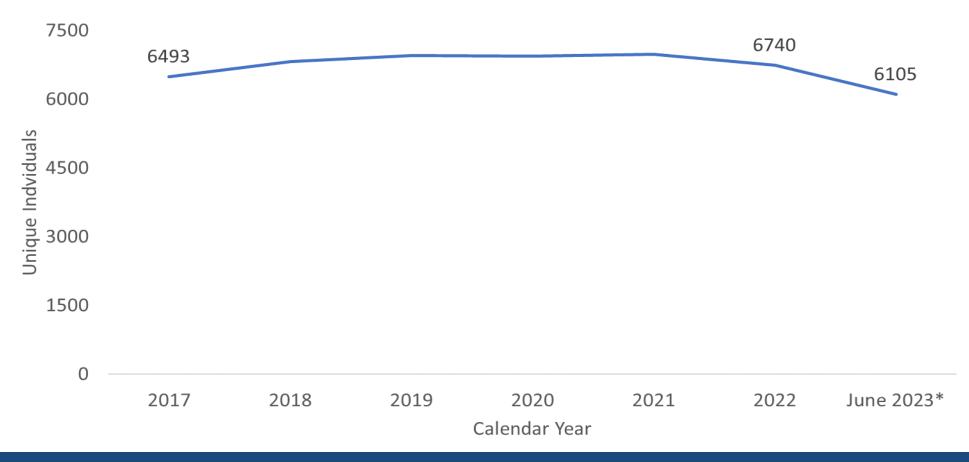


In the Buprenorphine data, a new Race field was created that combined the separate Race and Hispanic ethnicity fields into one field where Hispanics were considered as a separate race. It should be noted that records where the Hispanic ethnicity was listed as "unknown" were not mapped to the new Race field. The rates were calculated by dividing the number of individuals receiving Buprenorphine for each racial group (numerator) by the State's total population for each racial group (denominator) from CDC Wonder (http://wonder.cdc.gov/single-race-single-year-v2019.html), multiplied by 100,000.



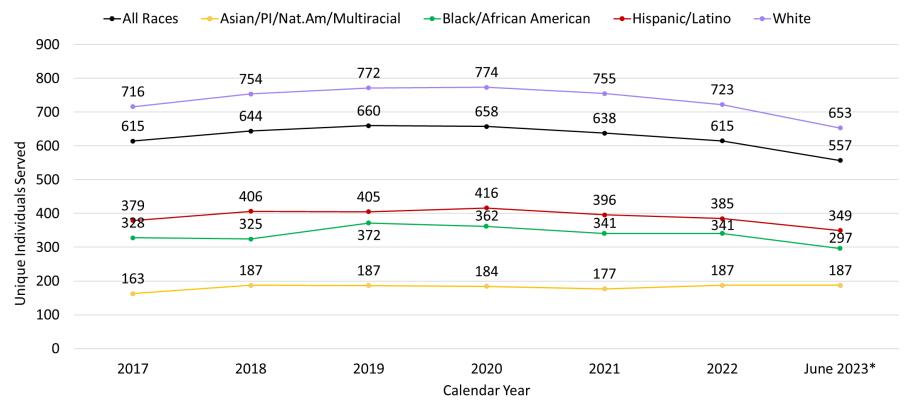
Unique Individuals Enrolled in Methadone MAT, 2017-2022

From 2017 to 2022, the number of patients receiving methadone MAT at some point during the year increased by 4%. Similar to buprenorphine dispensing data, as of June 2023, the number of patients who received some methadone MAT treatment has reached 90% for all of 2022.



Rates of Any Methadone MAT Enrollment by Race and Ethnicity Receipt per 100,000

Any methadone MAT receipt rate was at least two-fold greater among white Rhode Islanders as compared to other races. Rates decreased for white, Black, and Hispanic Rhode Islanders and increased for Asian/PI/Native American/Multiracial individuals.

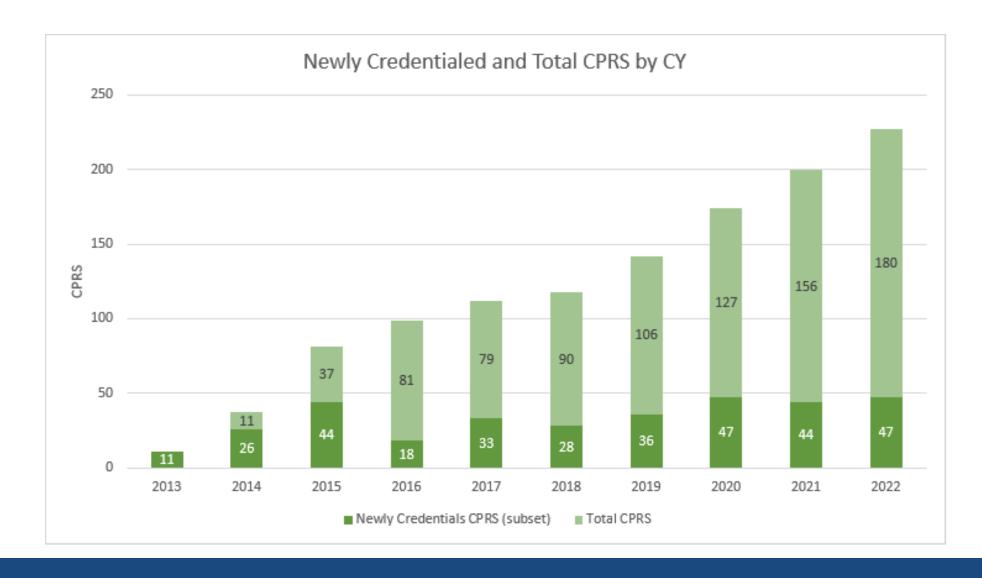


Hispanic/Latino includes people who identify as any race but selected Yes for Hispanic. All other racial and ethnic groups include people who identify as non-Hispanic ethnicity or have unknown ethnicity. Population denominator based on CDC WONDER single-race population estimates for each year; 2021 estimate applied for 2022 and 2023 rates. Due to small numbers, Asian, Hawaiian/Pacific Islander, Native American, and Multiracial individuals are combined into one graph, which can be seen on the right.

Recovery

- Newly Credentialed Certified Peer Recovery Specialists
- Recovery House Discharges (by Reason and Housing Stability)
- Recovery Housing Clients by Race and Ethnicity

Recovery



Goal Setting to Save Lives

Identifying a Statewide Goal for Fatal Overdose Deaths to Achieve by 2030

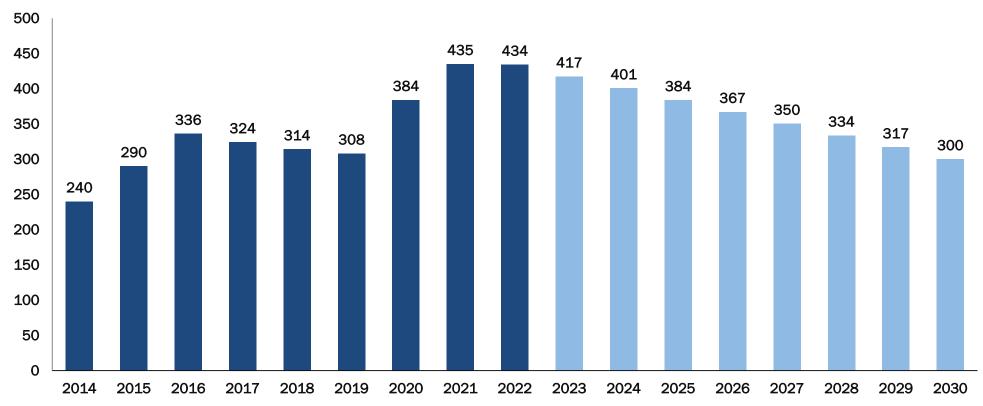
Christina Schulz, PhD; Health Program Administrator, Data and Analytics, Rhode Island Executive Office of Health and Human Service (EOHHS)



A) Aligning with CDC's Healthy People 2030

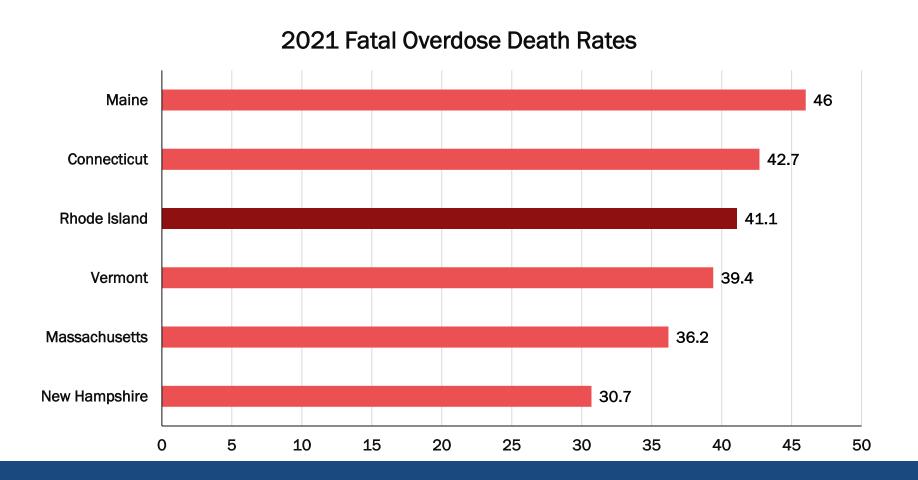
National Healthy People 2030 Goal: by 2030 return fatal overdose rates to 2018 levels. The RI Healthy People 2030 goal below would be slightly more rigorous (300 deaths) and aim for a 31% reduction (slightly below 2018 levels).





B) Achieving the Lowest Overdose Death Rate in New England

By 2030, having the lowest death rate among the New England states. This goal would be relative, and as such, could vary based on regional trends as time goes on.



Open Discussion and Feedback



Where Do We Go from Here?

Build out the existing data refresh into a PBI dashboard that is refreshed monthly.

- A comprehensive environmental scan of Task Force pillars
- Unified, cross-agency platforms both internal data hubs and external dashboards – for the collection, real-time reporting, and dissemination/consumption of overdose metrics

Next Steps

What are our next steps and how will we get there?

- Submit the recommended target to the Governor's Office
- Continue to focus on sub-targets by race/ethnicity
- Develop and implement an evaluation plan to track, analyze, and share findings
- Collectively work toward saving lives, supporting families and communities, and improving people's lives

