

# The Opioid Crisis in Buncombe County: Effective Strategies

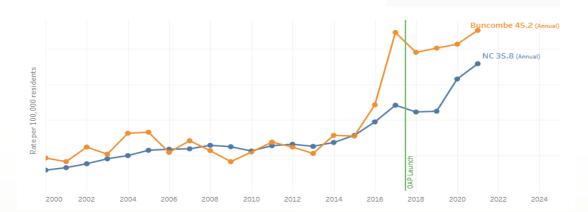
**Shuchin Shukla MD MPH** 

## **Opioid Overdose Deaths**

#### Deaths in Buncombe

The rate of overdose deaths among residents of **Buncombe** in **2021** (Annual) was **45.2**.

(Rate per 100,000 residents. Number of deaths: 118)



105,752

Number of North Carolinians who died each day from unintentional opioid overdoses in 2019<sup>1</sup>

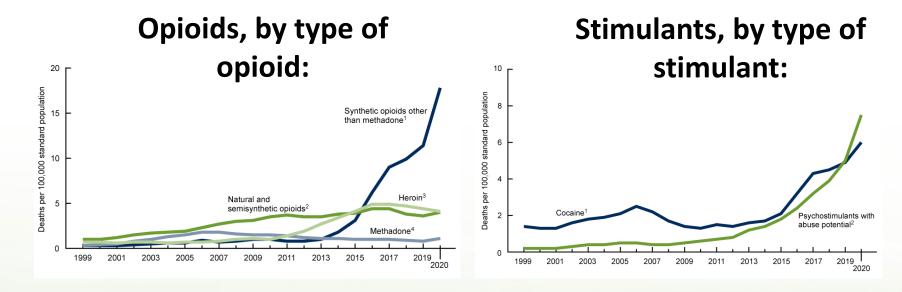
Predicted number of people in the US who died from Overdose from October 2020-October 2021<sup>2</sup>

Drug overdose deaths per 100k people	NC	USA
In 2019	22.4	21.6
In 2021	35.8	32.5

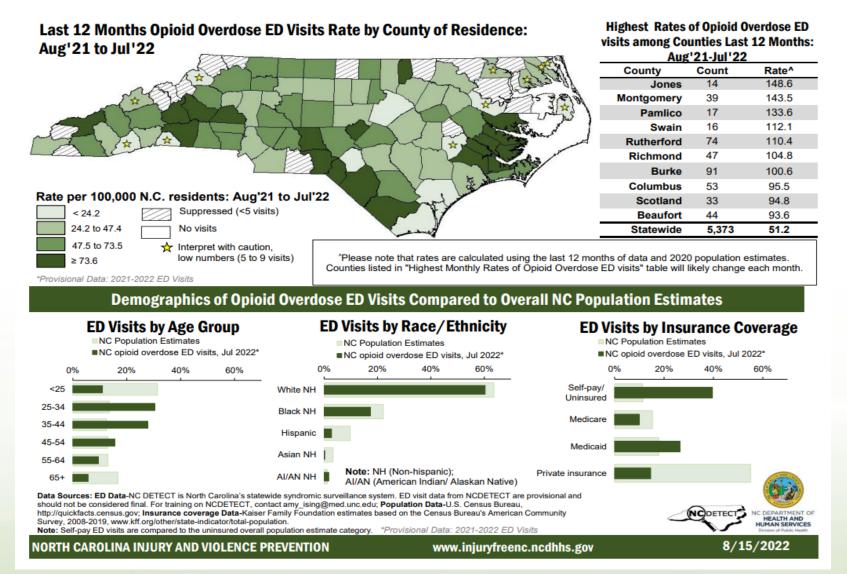
<sup>&</sup>lt;sup>1</sup>NC Opioid Dashboard 2022

<sup>&</sup>lt;sup>2</sup>National Center for Health Statistics, 2022

# Age-adjusted rates of drug overdose deaths involving:



**United States, 1999–2020** 



#### **CDC-Endorsed Strategies for Overdose Reduction**

**Eliminating Prior-**Targeted Naloxone Authorization MAT **Academic Detailing** Distribution Requirements for **MOUD** Naloxone Distribution Screening for **MAT** in Criminal Fentanyl in routine 911 Good Samaritan in Treatment Centers Justice Settings and Clinical Toxicology and Criminal Justice Laws **Upon Release** testing Settings Initiating Buprenorphine-based **Syringe Services** MAT in Emergency Programs Departments

# Opioid Use Disorder Treatment Approaches & Rates of Adherence



<sup>&</sup>lt;sup>1</sup>Weiss R, Rao V 2017

<sup>&</sup>lt;sup>2</sup>Mintzer II, Eisenberg M, Terra M, et al. 2007

<sup>&</sup>lt;sup>3</sup>Potter J, Marino E, Hillhouse M, et al. 2013

<sup>&</sup>lt;sup>4</sup>Strain E, Stitzer M, Liebson I 1993

<sup>&</sup>lt;sup>5</sup>Lee J, Nunes E, Novo P, et al. 2018

<sup>&</sup>lt;sup>6</sup>Tuten M, DeFulio A, Jones H, et al. 2012

### Why MOUD?

 The use of the opioid agonists methadone and buprenorphine reduces:<sup>1,2</sup>

**Overdose** 

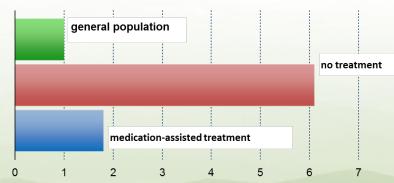
Illicit drug use

Transmission of infectious diseases

• Those receiving medications as part of their treatment are **75**% less likely to die due to their addiction than those not receiving

medication<sup>2</sup>

**Death rates:** 



### Criminal Justice System-Involved Overdose Risk<sup>3</sup>

- Over ¾ of incarcerated individuals meet criteria for substance dependence or abuse ¹
- In NC the likelihood of OD post-release is 40x higher than general population <sup>2</sup>
- US jails/prisons do not routinely offer MAT to incarcerated people
- Leads to:

Interruption in treatment during incarceration

High return to use risk post-release

Vastly increased risk of overdose death following incarceration if denied access to MAT

 Stricter drug laws DO NOT improve drug use rates, overdose rates or recidivism, but DO increase costs<sup>3</sup>

<sup>&</sup>lt;sup>2</sup> Ranapurwala,2018

### **MAT** is Effective in Correctional Settings

- After expanding MOUD statewide, the Rhode Island Department of Corrections saw a 61% reduction in post-correctional overdose death rates in the first year and 12% decrease for overdose death statewide.
- A study of >12,000 people in England found that a prison-based MOUD program was linked with a 75% reduction in all-cause mortality and an 85% reduction in overdose deaths in the first month after release.
- Another study showed that access to MOUD during the first four weeks in prison, was
  associated with a 94% reduction in risk of death, primarily associated with a reduction
  of suicide deaths among incarcerated people.

<sup>2</sup> Marsden, Stillwell, Jones, Eastwood, Farrell, 2017

<sup>3</sup> Larney, Gisev, Farrell, Dobbins, Burns, Gibson, Kimber, Degenhardt,

### **Economic Impact of SUDs**

Treatment is less expensive than alternatives

#### **Approximate average cost for 1 full year:**

Buprenorphine treatment \$6,000 per patient<sup>1</sup>

Methadone treatment \$6,500 per patient<sup>1</sup>

**Naltrexone** treatment \$14,000 per patient<sup>1</sup> **Imprisonmen** \$36,000 per person<sup>2</sup>

- Every \$1 invested in addiction treatment returns a yield of \$4 to \$7 in reducing drug related crimes, criminal justice and theft<sup>3</sup>
  - Not including healthcare costs

MAT in jails/prisons can improve recidivism, re-incarceration, parole violation, crime, violence and suicide within jail/prison.. But not with naltrexone

<sup>1</sup>ASAM, 2015 <sup>2</sup>Federal Register, 2018 <sup>3</sup>NIDA, 2016

### Naloxone Distribution<sup>1</sup>

- Education about and provision of naloxone to at-risk individuals have been associated with:
- 30% to 45% decrease in opioid overdose death rates
- Reduction in heroin consumption
- Reductions in opioid-related ED visits
- In jails/prisons, research shows that giving naloxone to all who are released ("opt-out") is more effective than only to certain groups
  - In Scotland, this was associated with a 36% reduction in 4week post release overdose death

### **Syringe Access Programs**

- Reduce overdose<sup>1,2</sup>
- Reduce transmission of infectious disease<sup>2</sup>
- Increase participation in substance use treatment<sup>3</sup>
- Facilitate referral to healthcare services & provide care<sup>3,4</sup>
  - ≈75% of participants at syringe access programs in California reported that the SAP was their only source of medical information/guidance/preventive healthcare

CDC 2022

#### **PEER SUPPORT**

Utilizes persons with lived experience to engage with patients with mental health, substance use, or other medical disorders.

Low barrier, interpersonal relationship building, outreach, community resource linkage... and more!

Helps empower those with lived experience as an asset to help others struggling with recovery

Addresses internalized stigma/bias for patients, and addresses cultural stigma/bias for healthcare worker-learners like you!

>50% relative risk reduction of opioid overdose and >50% relative risk benefit of MOUD initiation!

Winhusen T, Wilder C, Kropp F, Theobald J, Lyons MS, Lewis D. A brief telephone-delivered peer intervention to encourage enrollment in medication for opioid use disorder in individuals surviving an opioid overdose: Results from a randomized pilot trial. Drug Alcohol Depend. 2020 Nov 1;216:108270. doi: 10.1016/j.drugalcdep.2020.108270. Epub 2020 Sep 1. PMID: 32911132; PMCID: PMC7462596.

# Buncombe County Community Paramedic (CP) Program

Post Overdose Response, Mobile MAT, and Street Outreach in Asheville, NC

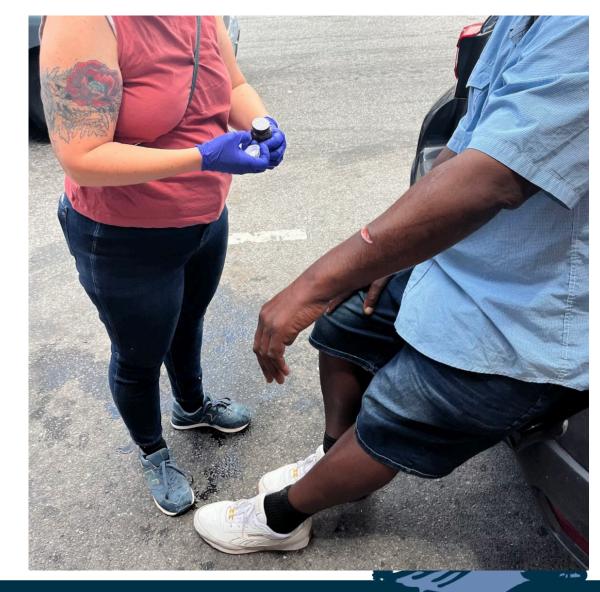


## 2022 OUTREACH

### **Mobile Outreach Team**

2 years of pilot funding

- Address PORT-identified gaps in care
- 2 EMT's on shift per day to operate our BLS van
- 3 Community Health Workers embedded in key community centers
  - ❖ Support/community health work through local grassroots groups and orgs (*Umoja*, *Haywood St*, *ADATC*) Placing community members with lived experience back into the communities
- Nurse liaison to facilitate care management & wound care
- Advanced wound (Nurse Practitioner)
- Weekly consultation and program support



### **Community Paramedic Team – Calls for Service**

2021 (Prior Year)	3,075
2022 Year-to-Date (8 Months)**	3,189
Total Responses From Inception	6,264

# November 2020-September 2022 Community Paramedic Team – Services Rendered

Variable	Total		
Total Response	6000+		
Response via dispatch for Overdose	2,070		
Release Of Information (Case Management)	807		
Social determinants of health referrals	400+		
Medicated Assisted Induction in field	80		
Medicated Assisted Treatment Complete	76		
Peer support hand off to Mahec	56		
Responses After 5:00 pm/weekends	60-70%		

## **FUTURE GOALS**

- ➤ Implement comprehensive mental health/crisis support team
- ➤ Incorporate traditional MIH (mobile integrated health) to serve communities struggling with mobility in aging, chronic health management, and lingering effects of Covid-19.
- Provide Technical Assistance to other counties in WNC for model adoption

## MEET OUR CURRENT CP TEAM

- Taylor Jones, *Emergency Services Director*
- Jamison Judd, Division Manager
- Claire Hubbard, *Program Manager*
- Justin Hall, Peer Support Coordinator
- Robert Stanton, Jim Rose, Justin Pritchard, Jon Anderson, Kevin Miller, James Sitton: *Community Paramedics*
- Paula Scott, Brandi Hayes, Alex Taylor,
   Cheryl Pulley, Peer Support Specialists



## MEET OUR PHYSICIAN COLLABORATORS

- Dr. Stace Horine, EMS Medical Director
- Dr. Shuchin Shukla, Mahec Clinical Director of Health Integration





# Office of the Sheriff, Quentin Miller

Presented by

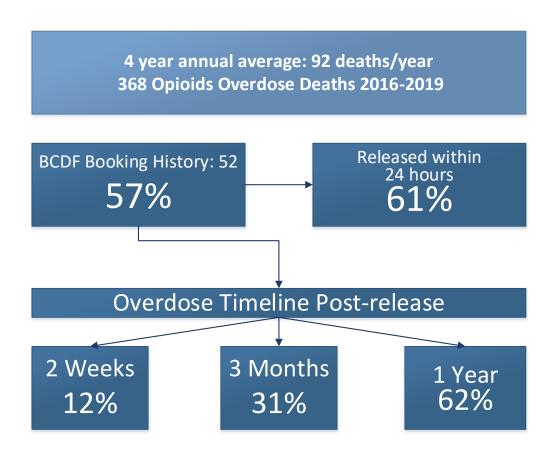
Sarah Gayton

**Strategic Community Opioid Response** 

**Detention MAT Treatment and Programing** 



## MAT in BCDF Jail – local context





### **Detention MAT Treatment**

Year 1 (FY20): 73

Year 2 (FY21): 218

Year 3 (FY22): 539; 203 referrals

122 Housed

Year 4 (2023): 75% increase to date

Daily dosing increased from 3 to 25 persons/day ('20-'22)

22% Decrease in overdose deaths of those with detainment in past 5 years

18% recidivism reduction – when on MAT treatment compared to untreated opioid use

3339 Overdose reversal kits provided



#### *Trifecta* Service Continuum

- 1) Detention MAT: Treatment, Reentry, Housing+
- 2) Linkage to Care: Treatment, Reentry, Housing+
- 3) Post Overdose Response Team: Treatment, Linkage

#### **BCSO Detention MAT Treatment and Program**

Sarah Gayton, MAT Services Director

Design, Development, Implementation

Coordination, Management, Expansion Evaluation

Data Collection, Analysis, Reporting

Program liaison, County Coordination, State Technical Assistance

Grant Management, Contract Management, Budget Management, Organizational Leadership

Staff Management and Development (Peers, Medical, Organizational)

Community Engagement: Community Advisory Panels, Outreach and Prevention Efforts

Medical Staff included in Detention Medical Contract

Sunrise Peer Support for Recovery and Wellness

Program Staff x3

Detention MAT Peer: Screening, reentry planning, linkage to MAT treatment prepost release; coordination with referral and other reentry resources; data and budget management

Community Reentry Navigation: Linkage to treatment, housing, recovery supports, employment, education, ID's, and other essential life stabilization resources

Peer Supervisor: Peer coordination, staff oversight (2 Justice Programs: MAT and Child Support Diversion Program)

# **Data Findings** – Sheriff's Office partnership with Register of Deeds (ROD, Drew Reisinger)

- > State dashboards do not reflect accurate local metrics
- ➤ BC ROD's office has enabled gathering and analysis of local data

### **Drug overdose deaths**

	2021	2020	2019	2018	2017	2016
NC Dashboard	118	108	105	101	115	62
	45.2	41.3	40.2	39	44.6	24.2
BC ROD	161	137	130	124	155	71

- ➤ BC Stimulant Use Disorder deaths increased by 30% in 2021
- > 22 % (2020 & 2021) <u>decrease</u> in correlated deaths of formally incarcerated BCDF population <u>contrasts against national, state, and local overdose spikes</u>