



HPTN094  
Philadelphia

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RIDE+ CAB

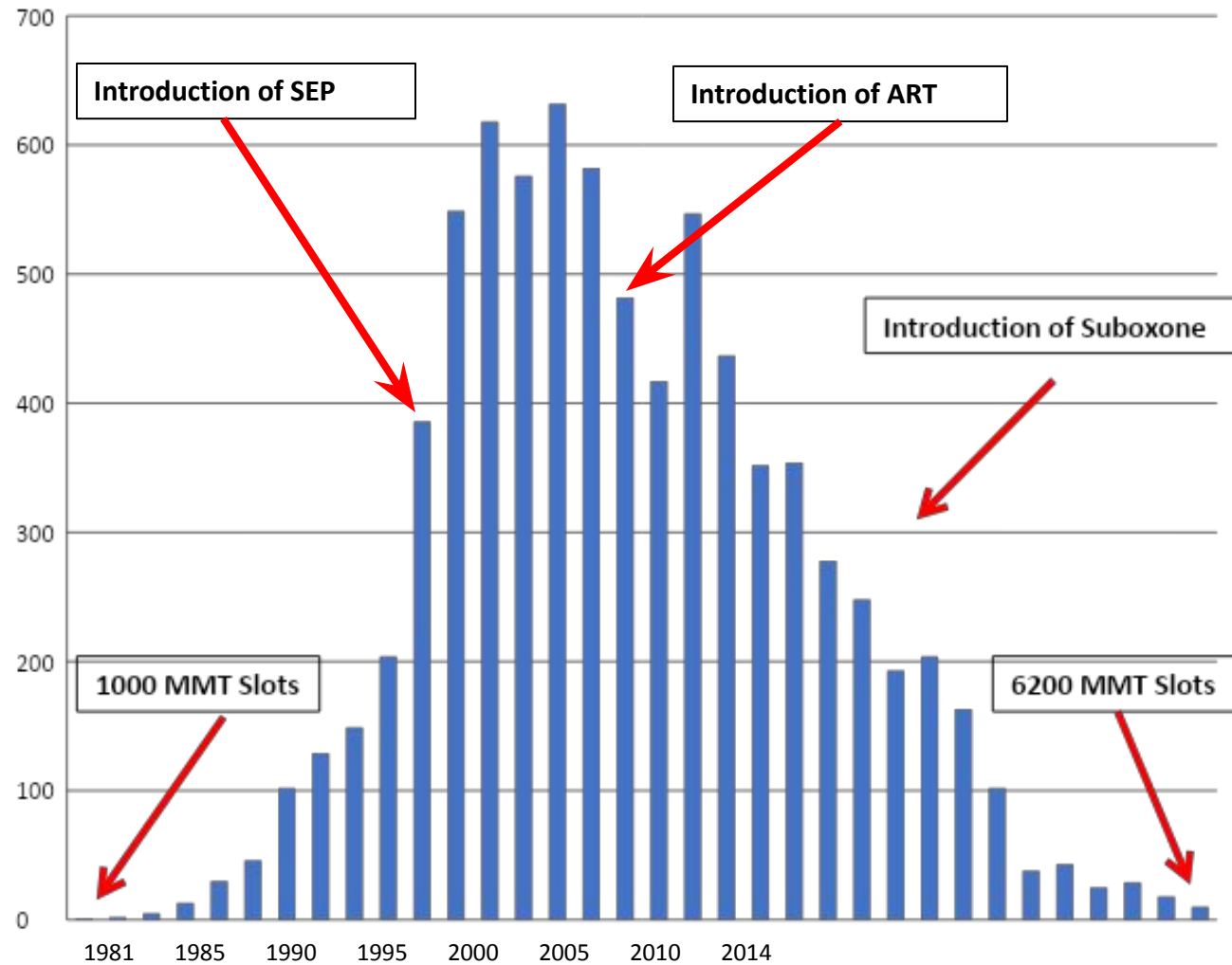
Penn Prevention CTU  
team



# Overview

- Introduction and context
- HPTN 094 RIDE +
- Prevalence and Incidence of HIV among PWID in Philadelphia
- Need for sustained access to HIV testing and health care

# Number of new HIV/AIDS diagnoses among IDUs in Philadelphia by year: 1981 to 2014



# Fatal Overdoses in Philadelphia County



Measuring

This data is being actively monitored to review City performance.

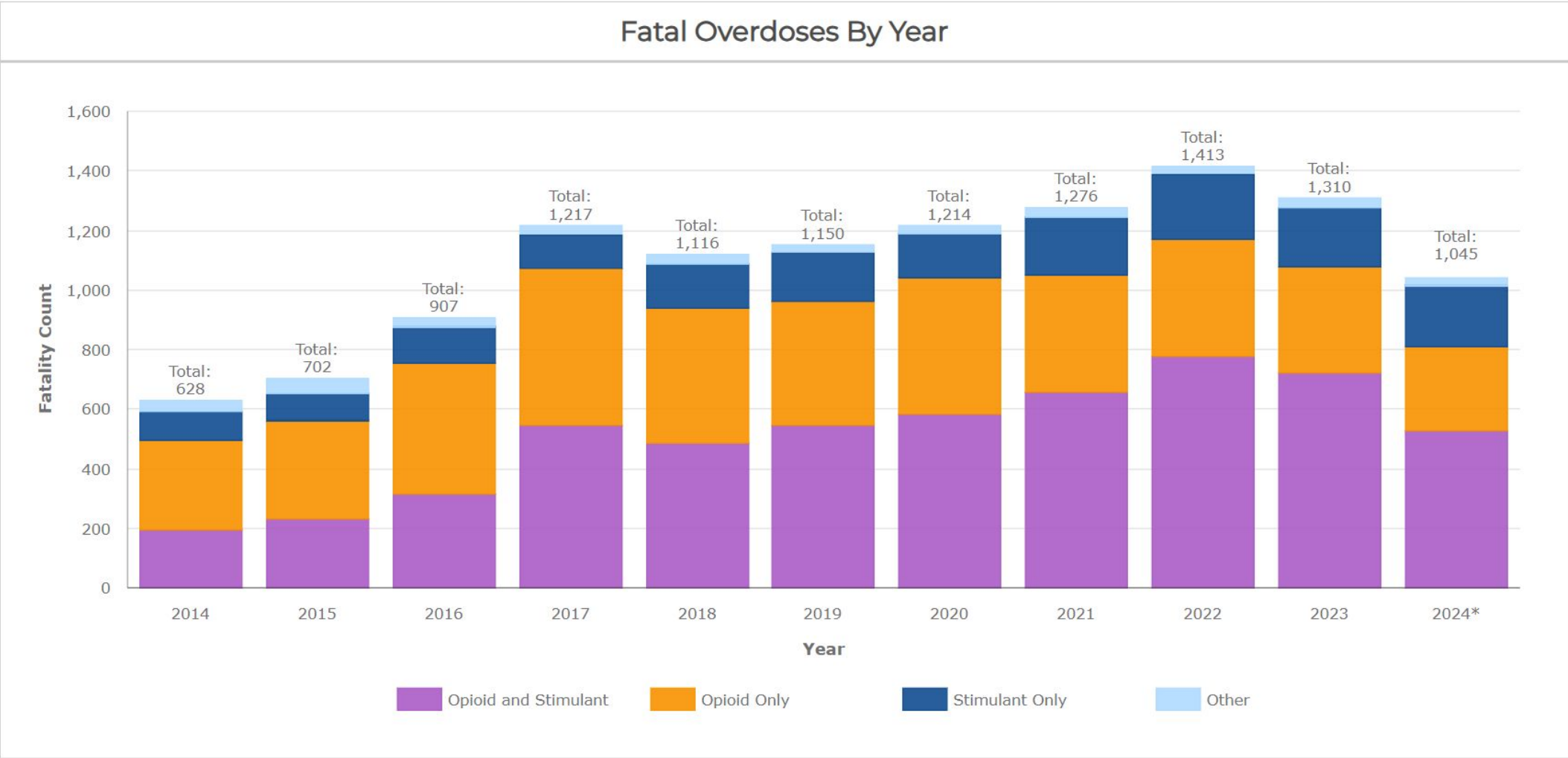
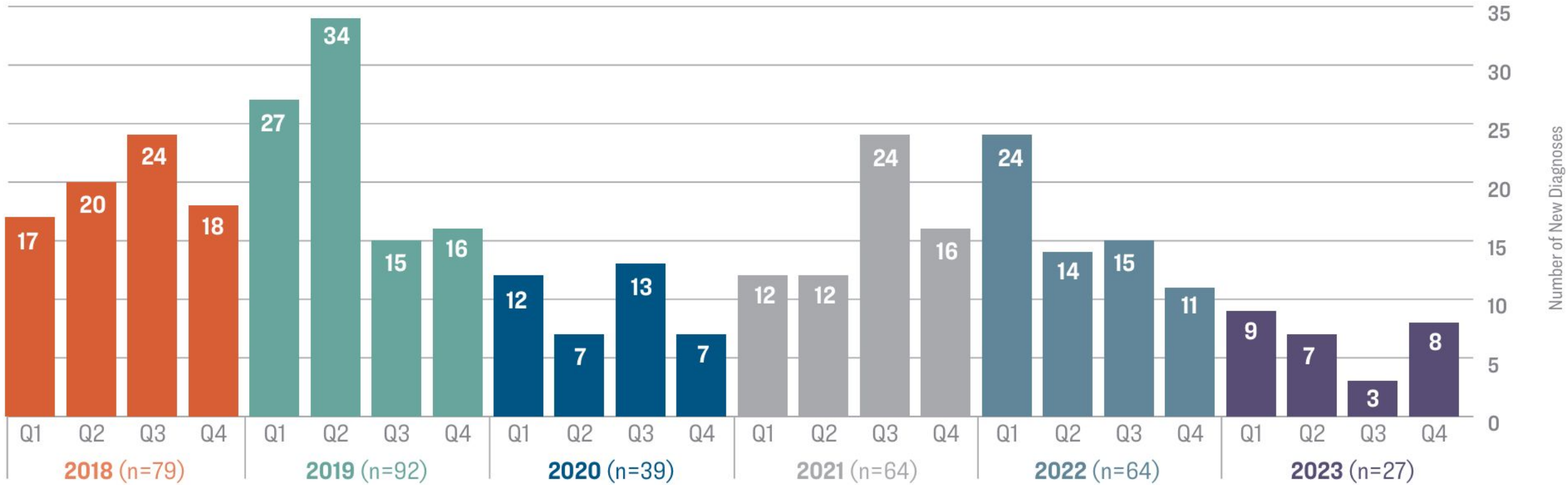


Figure 7A | HIV Epidemiological Curve among PWID, 2018 - 2023

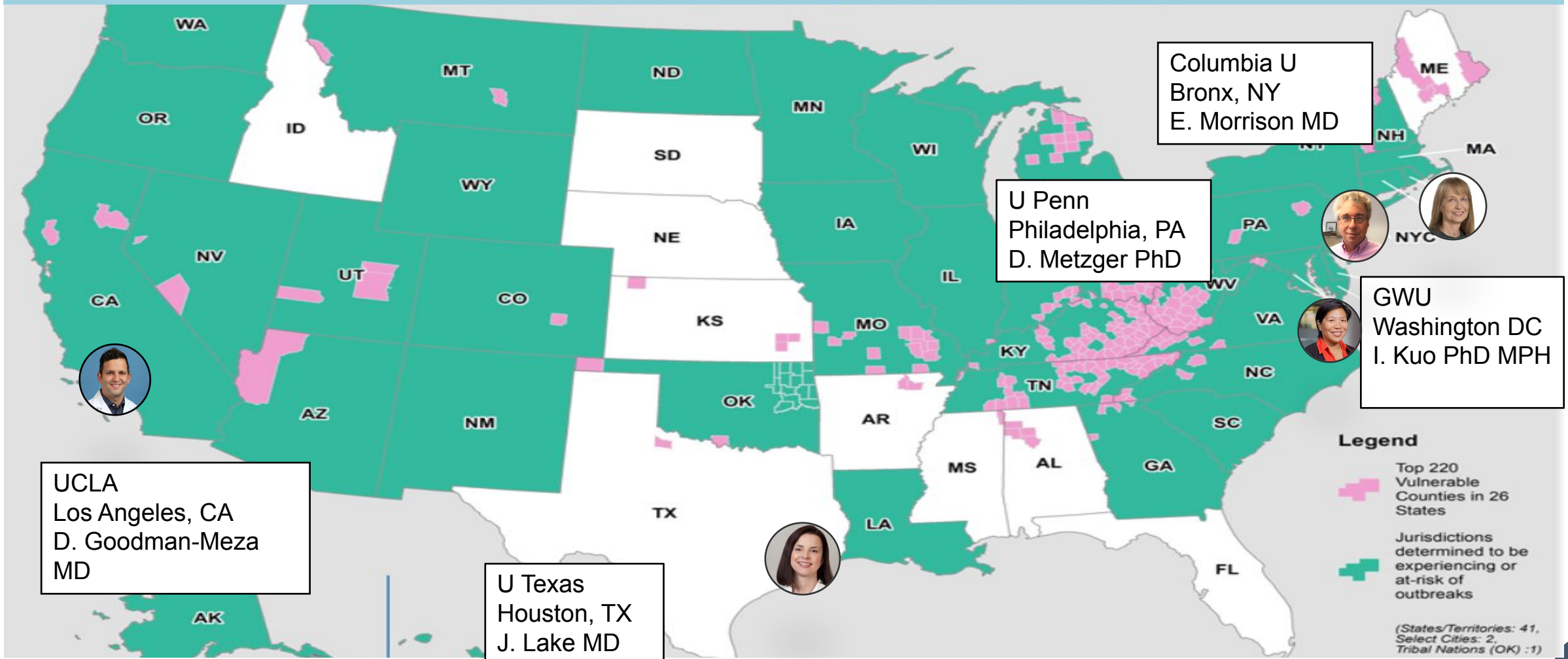


# HPTN094 Primary Aim

Test the impact of using mobile units to engage people who inject drugs (PWID) in drug treatment (MOUD), HIV care, and HIV prevention

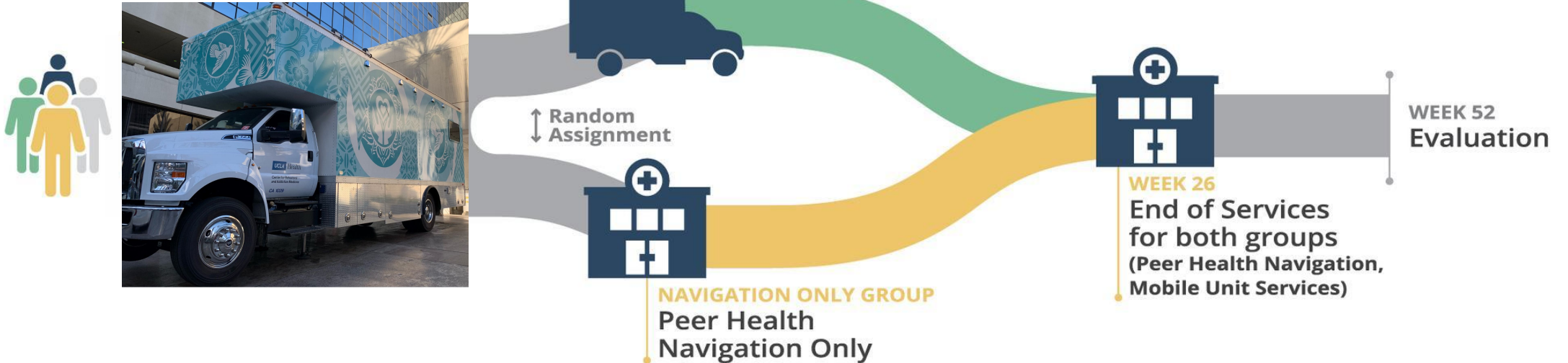
# Participating Sites

## Plotted onto spatial map of IDU-HIV risk



# Study Design

Consent, Screening, &  
Enrollment in Mobile Units



To evaluate if 26 weeks of “one stop” integrated health services supported by peer navigation delivered in a mobile unit is superior to peer navigation alone to “brick and mortar” agencies is superior along **three primary outcomes**

## PRIMARY OUTCOMES at 26 Weeks

1. On MOUD
2. ↑ rate of viral suppression for PWH
3. ↑ PrEP among PWOH



# Study Population

- 18 and older
- Have opioid use disorder (OUD) and be injecting drugs
- Willing to start OUD treatment, but not currently in treatment
- At risk for transmitting or acquiring HIV
- Living with or without HIV

	Overall	New York	Los Angeles	Wash, DC	Houston	Philadelphia
Screening	831	180	178	155	155	163
Enrollment	447	94	95	41	104	113

# Philadelphia Recruitment

- ✓ June 2021 to September of 2023
- ✓ Kensington Ave (primary site)
- ✓ Screened : 156
  - Screened failed: 43
- ✓ Enrolled: 113
  - With HIV: 11 (9.7%)
  - Intervention: 59
  - Control: 54

# Demographics at time of enrollment

## Baseline prevalence

**HIV: 9.7%**

**Hepatitis C: 64.6%**

Age	
Mean (SD)	38.3 (7.9)
<30	15 (13.3%)
30-49	84 (74.3%)
50-59	14 (12.4%)
60+	0 (-)
Sex assigned at birth	
Male	70 (61.9%)
Female	43 (38.1%)
Race	
White	88 (77.9%)
Black / African American	22 (19.5%)
Other	3 (2.6%)
Ethnicity	
Hispanic or Latino	10 (8.9%)
Not Hispanic or Latino	102 (90.2%)
Not reported	1 (0.9%)
Housing status	
Unhoused/ experience homelessness	87 (77.0%)
Friends or Family members	16 (14.2%)
Rent/ owned	10 (8.8%)

# Retention of “available” participants

- ✓ **26-week completed: 87/98 (88.8%)**
  - Incarcerated: 13
  - Deceased: 2
  - Moved away: 2
  - Unable to locate: 7
- ✓ **52-week completed: 98/103 (95%)**
  - Incarcerated: 5
  - Deceased: 5 (4.5 per 100py)

## Substances used (urinalysis)

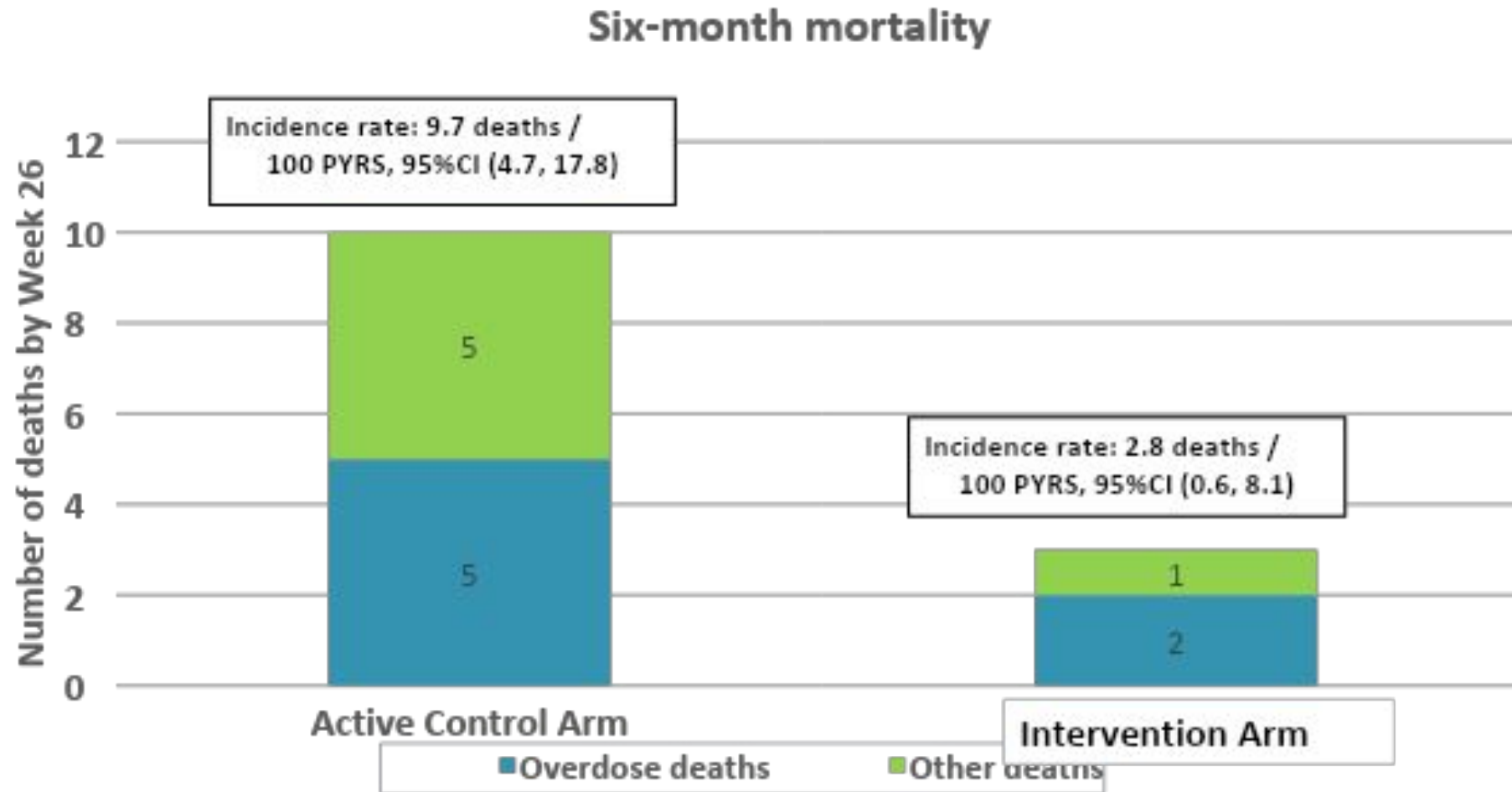
	Baseline (n=112)	Week-26 (n=84)
<b>Opioids</b>	112 (100%)	74 (88.1%)
<b>Fentanyl</b>	112 (100%)	74 (88.1%)
<b>Heroin</b>	7 (6.2%)	5 (5.9%)
<b>Other opioids</b>	94 (83.9%)	35 (41.7%)
<b>Methadone</b>	17 (15.2%)	11 (13.1%)
<b>Buprenorphine</b>	4 (3.5%)	7 (8.3%)
<b>Xylazine</b>	111 (99.1%)	71 (84.5%)
<b>Stimulants</b>	111 (99.1%)	73 (86.9%)
<b>Cocaine</b>	105 (93.8%)	64 (76.2%)
<b>Amphet./Methamphet.</b>	91 (81.3%)	44 (52.4%)
<b>Benzos.</b>	3 (2.7%)	1 (1.2%)
<b>Cannabis</b>	4 (3.6%)	4 (4.8%)
<b>Polydrug use</b>	111 (99.1%)	79 (94.0%)

Receiving MOUD at Week-26: 17 (15%)

## Intervention Outcomes at Week 26

	PWH (N=38)		PWoH (N=409)	
	Active Control Arm	Intervention Arm	Active Control Arm	Intervention Arm
	n = 17	n = 21	n = 206	n = 203
<b>MOUD using biomarker and prescription</b>	1 (5.9%)	3 (14.3%)	16 (7.8%)	15 (7.4%)
<b>Self-Reported Taking MOUD</b>	5 (29.4%)	7 (33.3%)	37 (18%)	51 (25.1%)
<b>HIV suppression using biomarker</b>	7 (41.2%)	8 (38.1%)	---	---
<b>PrEP detected using biomarkers</b>	---	---	6 (2.9%)	11 (5.4%)

# All Cause Mortality



Estimated Hazard Ratio (95% CI): 0.30 (0.08, 1.08),

## Morbidity & Mortality Outcomes

- **New HIV infections: 3 participants**  
3.5 cases per 100 person-year
- **Death: 5 participants**  
4.4 deaths per 100 person-year  
2 from overdose  
1 from trauma  
2 from other medical conditions
- **At least one ED visit or hospitalization: n=58 (51.3%)**
  - Total ED visits and/or hospitalizations: 357
    - Mean= 6.2 (SD=6.4), range: 1-27
    - Soft tissues infection or necrosis (n=200, 56.0%); pulmonary, cardiovascular or hepatic disease (n=55, 15.4%); trauma (n=25, 7.0%); OD (n=22, 6.1%)

### **(Age was associated with ED visits and/or hospitalizations)**

- Those who were 30 or older were about **3 times more likely** to have an ED visit and/or hospitalization ( $\beta= 1.08$ ,  $SE=0.39$ ,  $p=0.006$ ;  $OR=2.9$ ,  $95\%CI: 1.5-7.6$ )

## Conclusions

- Intervention did not improve uptake of addiction treatment (MOUD) or PrEP  
*Need to continue to develop more accessible and acceptable treatment strategies*
- HIV continues to be transmitted at a high rate among PWID in Philadelphia--the only site to detect new cases  
*Need to ensure ongoing access to HIV testing and “drug dependence informed” HIV treatment*
- High rate of mortality—majority of the deaths were due to medical conditions  
*Need to continue efforts to expand engagement in primary care and overdose prevention services, closer monitoring of the drug supply*
- Extremely high utilization of hospital services  
*Need to integrate addiction treatments into hospital services*

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- **26 ft Mobile Medical Exam Unit** - Perfect to navigate smaller areas throughout the city
- **7 Passenger Hybrid Minivan** - Great for community engagement & events
- **All units include a driver**



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SCAN TO RESERVE

