The Opioid Epidemic in Philadelphia

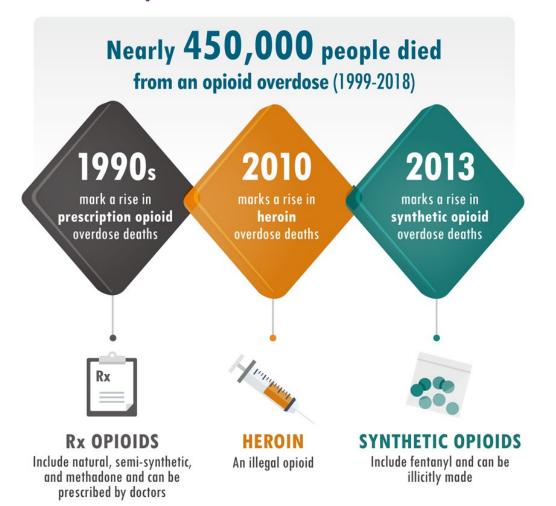
David Metzger, PhD Cecile Denis, PhD

HIV Prevention Research Division
University of Pennsylvania
Department of Psychiatry
3535 Market Street

dsm@pennmedicine.upenn.edu

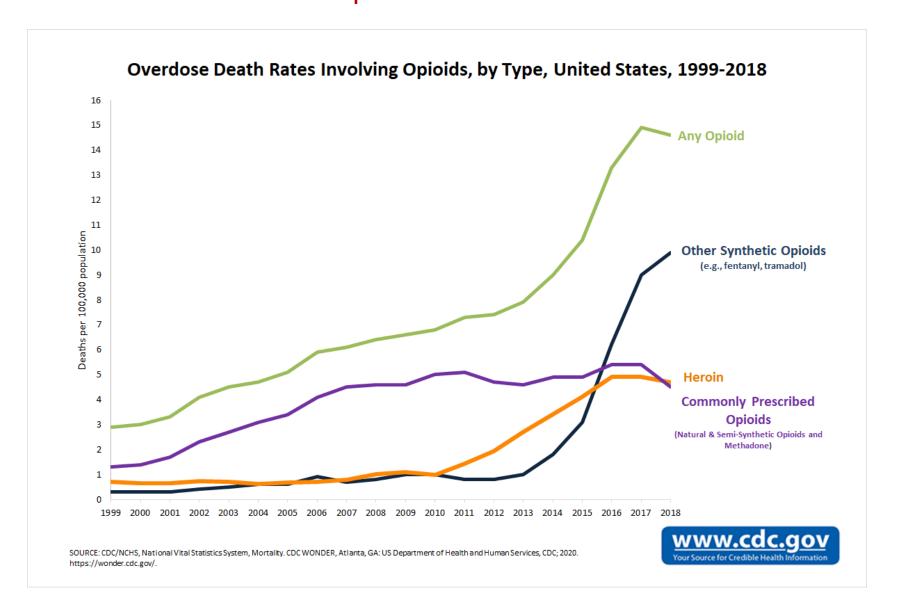
RISE IN OPIOID OVERDOSE DEATHS IN AMERICA

A Multi-Layered Problem in Three Distinct Waves



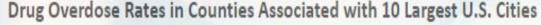


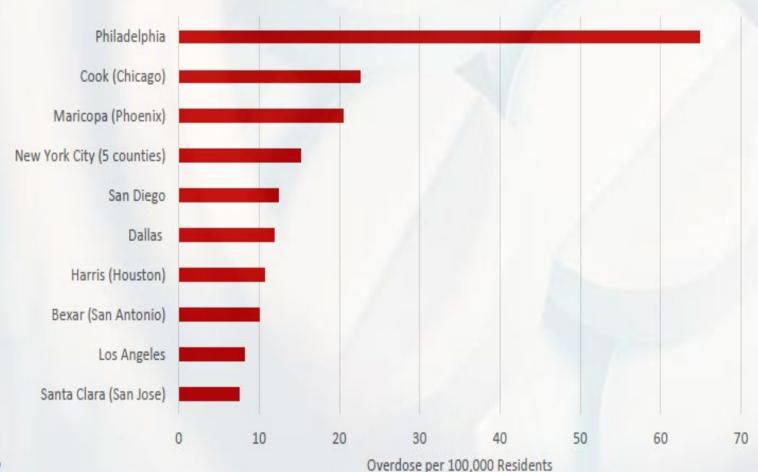
Opioids were involved in nearly 47,000 deaths in 2018, which is nearly six times the number of opioid-involved overdose deaths in 1999.





Philadelphia has the highest death rate of the top 10 largest U.S. cities



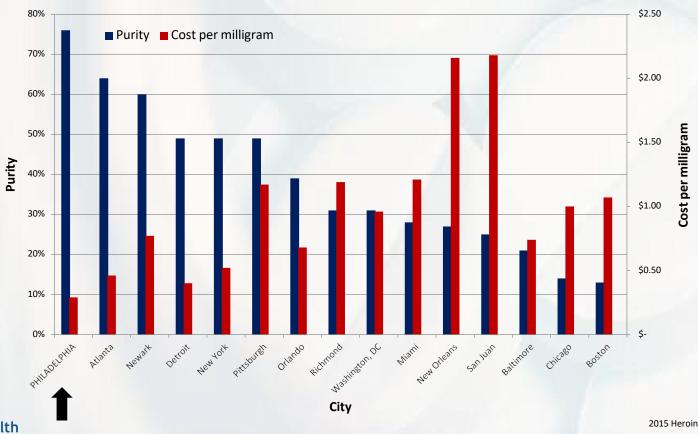




CDC Wonder, 2018



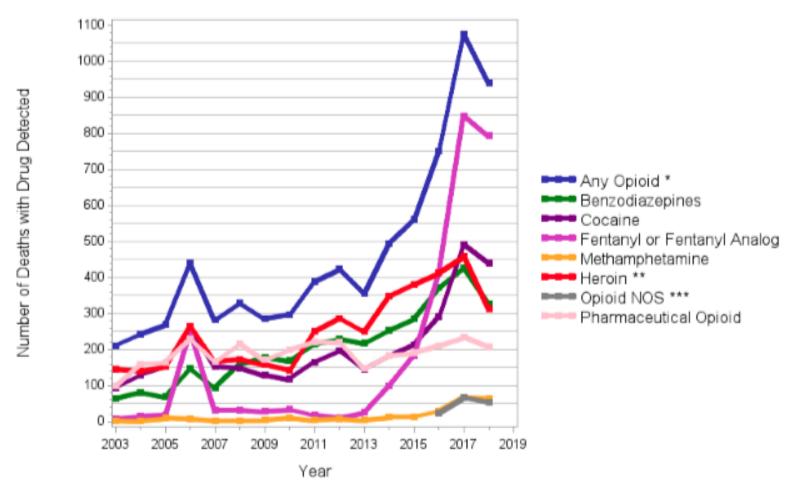
Heroin is pure and cheap in Philadelphia





2015 Heroin Domestic Monitor Program

Number of Opioid Related Deaths with Specific Drug Present, 2003-2018



* Includes deaths with any opioid including heroin, morphine, or pharmaceutical

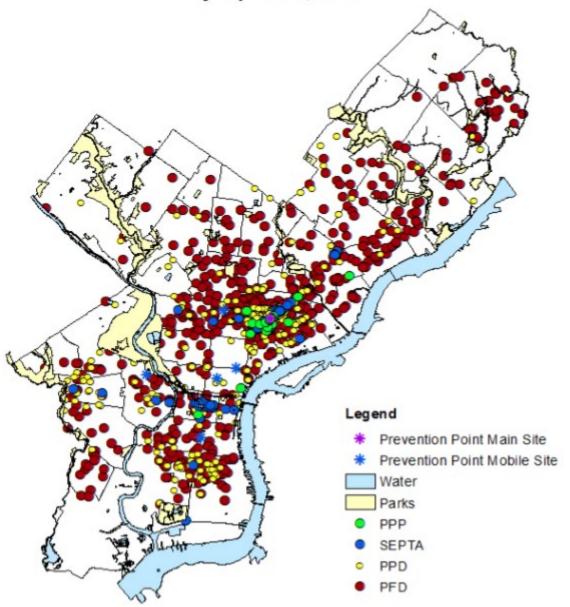
** Includes deaths with heroin or morphine detected

*** Includes deaths based on hospital tox

**** Categories are not mutually exclusive as multiple drugs might be detected in the system

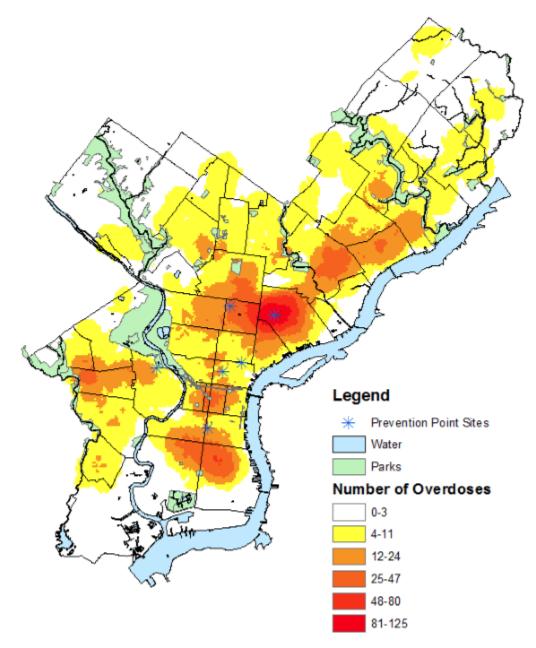


Incidence of Non-Fatal Overdoses in Philadelphia by Zip Code, 2018





Unintentional Drug-Related Fatal Overdoses by Incidence, 2018

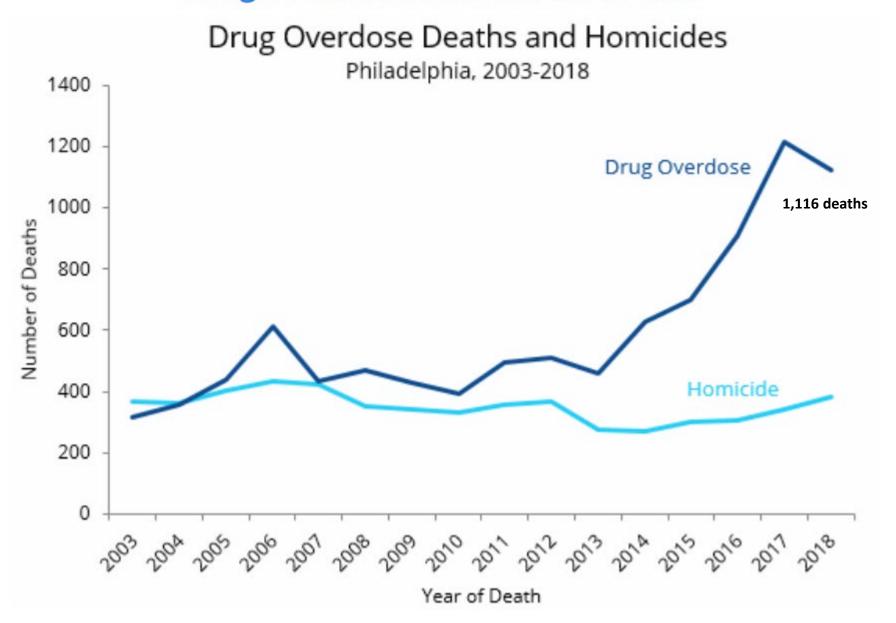


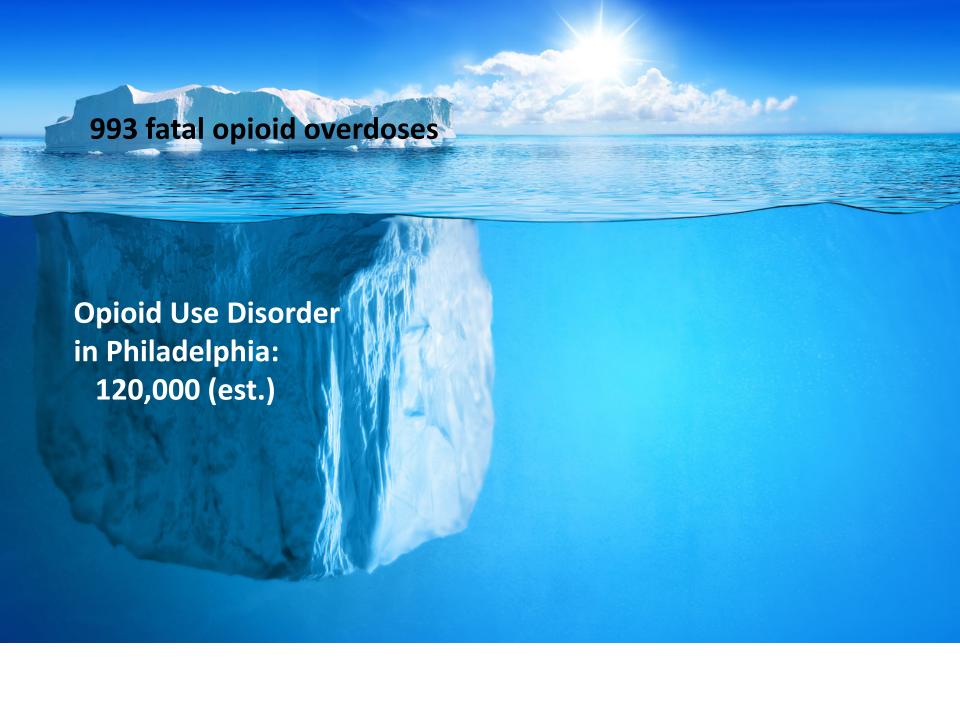
Demographics of Unintentional Opioid Related Deaths Age-Adjusted Rates* per 100,000 Residents January 1, 2017- December 31, 2018

	Age-Adjusted Rate per 100,000 residents
Total	49.2
Sex	
Female	25.9
Male	75.5
Race/Ethnicity**	
White, non-Hispanic	75.4
Black, non-Hispanic	32.8
Hispanic	58.3
Age***	
15-24	14.1
25-34	63.1
35-44	96.2
45-54	103.0
≥55	47.1

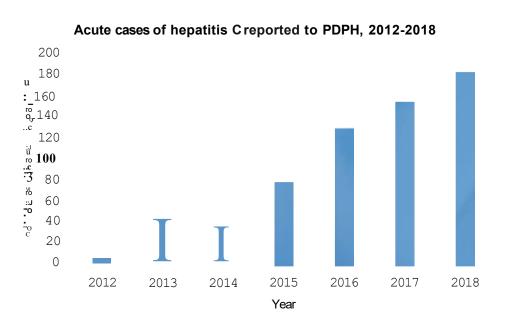
^{*} Rates are calculated using Philadelphia county population denominators from the 2017 American Community Survey 1year estimates. Rates are adjusted to the 2000 U.S. Standard Population age distribution ** Deaths among persons who had race/ethnicity listed as other were too few to calculate rates *** Age-specific death rates are listed

Drug overdoses declined 8% in 2018

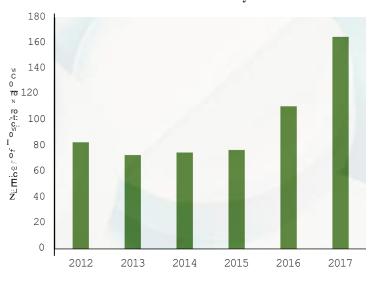




Increasing hepatitis C and endocarditis as well



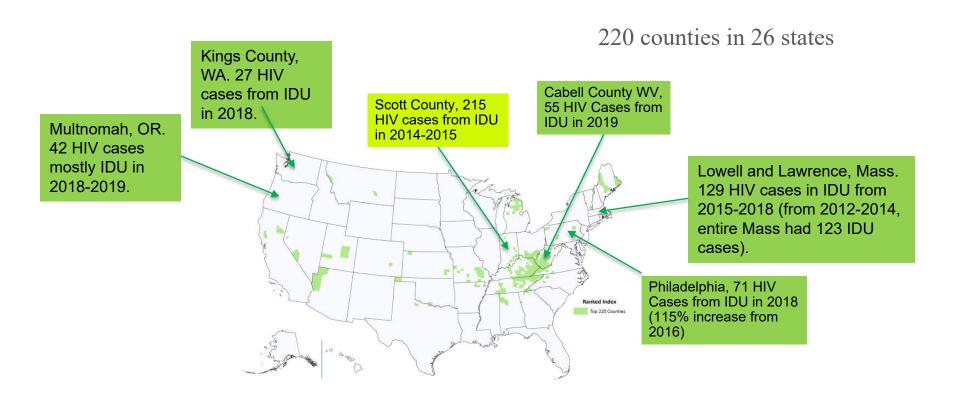
Hospitalizations for Endocarditis Among People with Opioid Use Disorder by Year





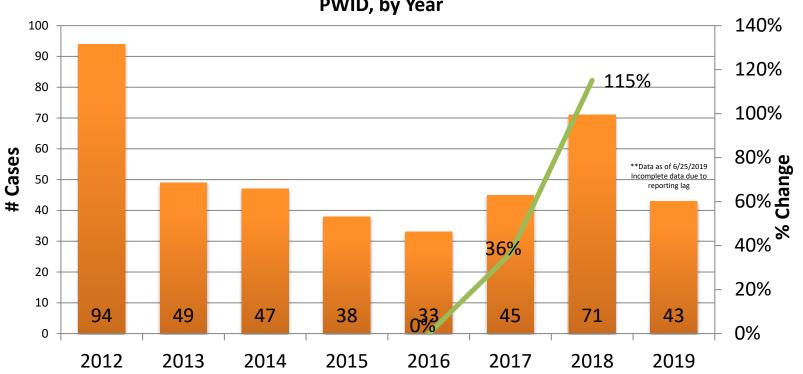
HIV Can Spread Rapidly Among People Who Inject Drugs

U.S. counties vulnerable to rapid spread of IDU-associated HIV

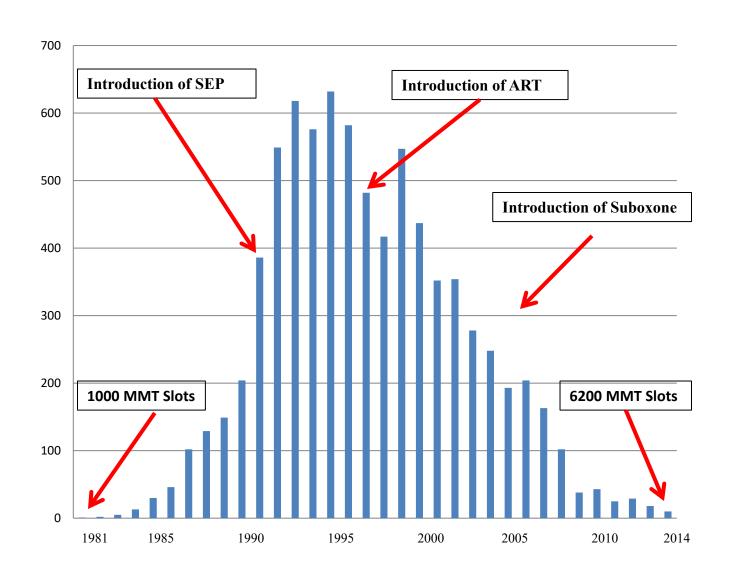


Identifying an Outbreak

Number of Newly Diagnosed Cases of HIV (regardless of AIDS status) in all PWID, by Year



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



PMARC Pilot assessments of 143 PWID

HIV positive: 12 (8.4%)

Detectable VL: 7 (58.3%)

Severe DSM 5 OUD: 132 (92.8%)

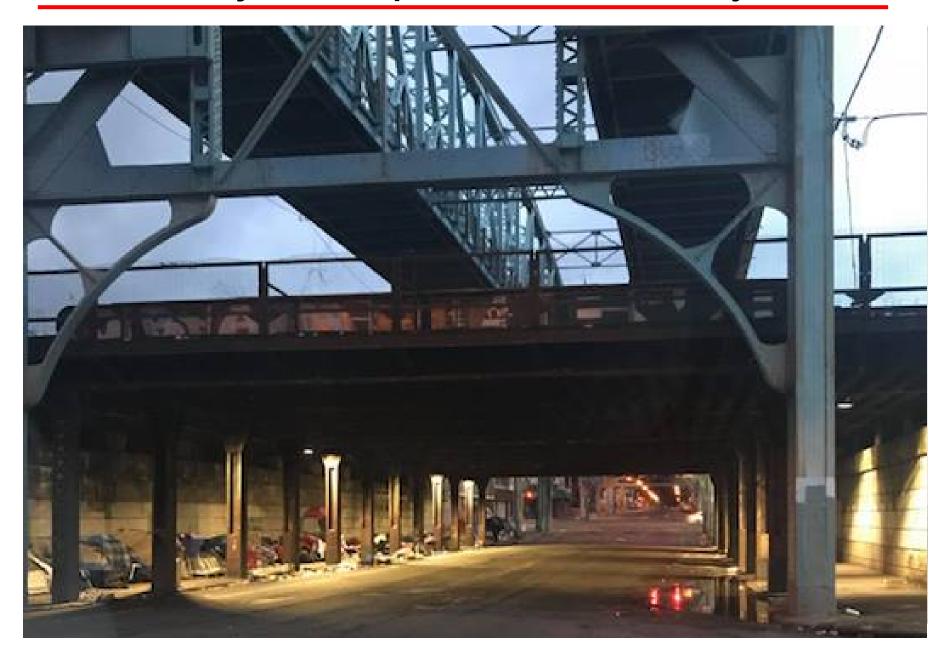
OD past 6 months: 41 (32.3%)

MAT past 30 days: 46 (36.5%)

Depression:

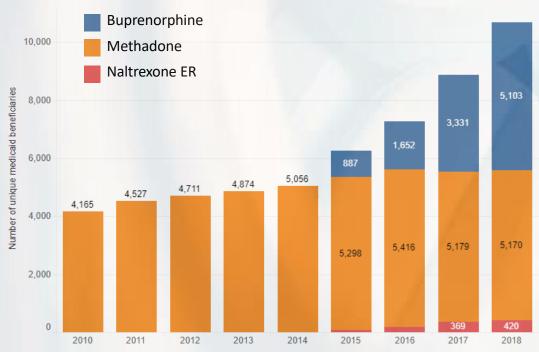
Severe/Very Severe 57 (40%)

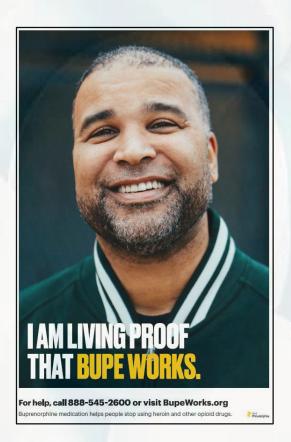
City's Encampment Resolution Project



Treatment

Number of unique beneficiaries receiving medication assisted treatment by year









Philadelphia DBHIDS In-Network Medication Assisted Treatment Capacity, as of 12/28/2018 Total DBHIDS In

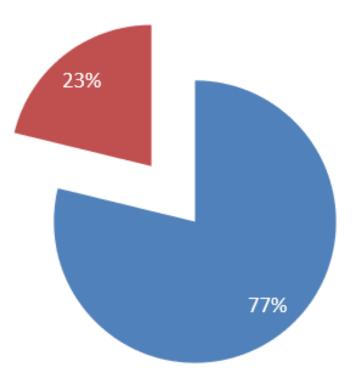


Total DBHIDS In-Network

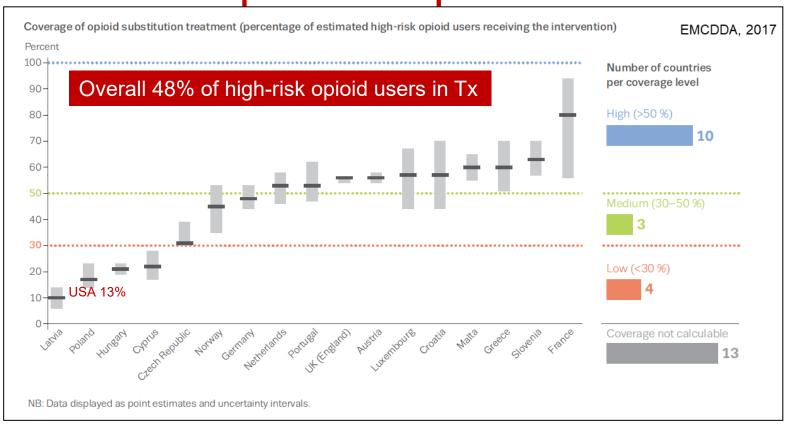
MAT Program Capacity

(any medication) =

12,479 slots.



Maintenance treatment opioid dependent patients



Rapid Initiation of buprenorphine/naloxone to optimize MAT in Philadelphia

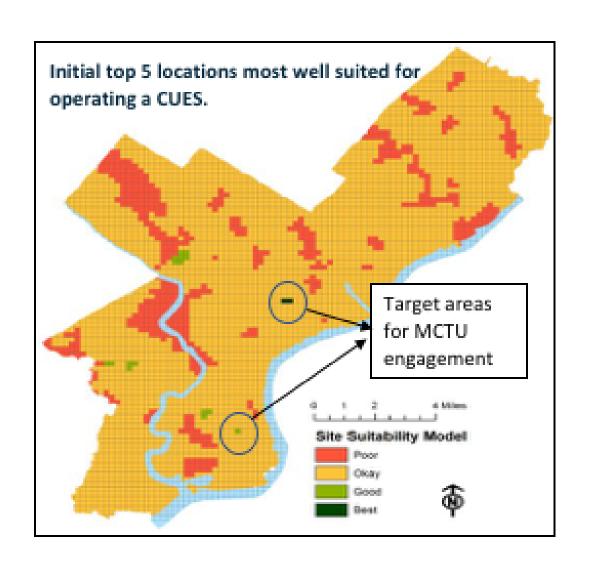




RIDE Strategy

- Mobile
- Rapid relief of withdrawal symptoms
- Preferred Provider Network
- Support
 - Nurse practitioner
 - Case manager
 - Peer recovery specialist

Targeted Neighborhoods



Conclusions

- Philadelphia is experiencing a severe opioid epidemic
- New strategies are needed for HIV prevention

MAT engagement remains challenging