

HIV, HCV & Harm Reduction in TN

Pamela Talley MD, MPH Rose Devasia MD, MPH

Medical Director Deputy Medical Director

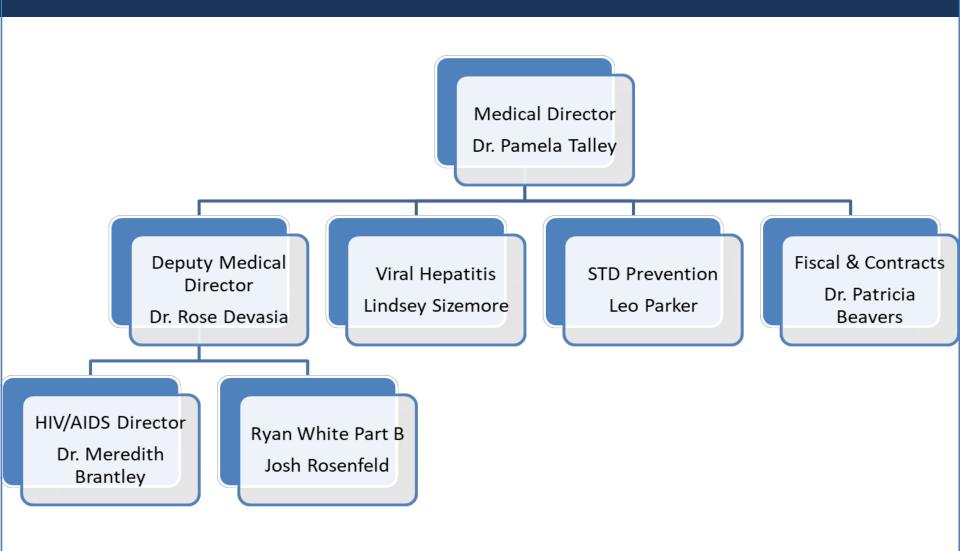
TDH HIV/STD/VH Program

Outline

- Tennessee Vulnerability to Rapid HIV Dissemination
- HCV
- Harm Reduction Efforts
- HIV



TDH HIV/STD/Viral Hepatitis Program







HIV Vulnerability— Tennessee

National Context: Scott County, Indiana 2014–2015

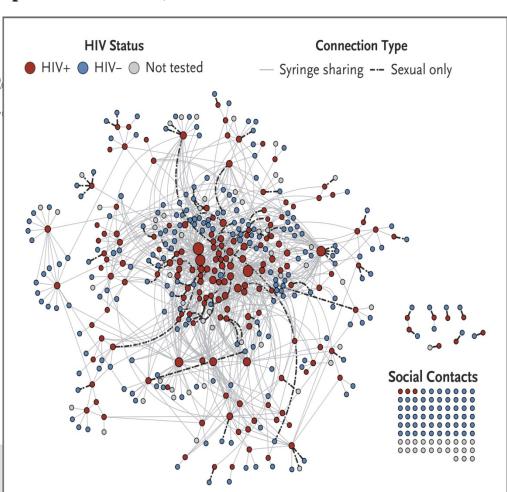
ORIGINAL ARTICLE

HIV Infection Linked to Injection Use of Oxymorphone in Indiana, 2014

-2015

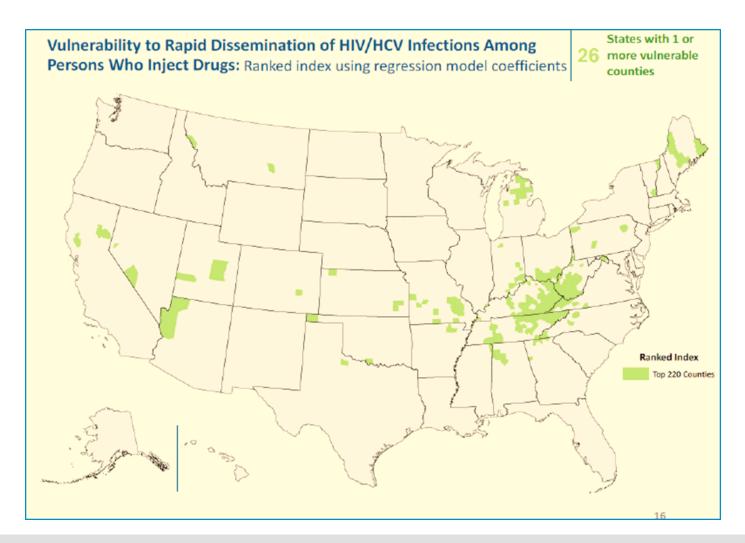
Philip J. Peters, M.D., Pamela Pontones, M.A., Karen W. Hoover, M.D., M.P.H., Monita R. Patel, Ph.D., M.P.H., Robosser, Ph.D., Michael W. Spiller, Ph.D., Brittany Combs, R.N., William M. Switzer, M.P.H., Caitlin Conrad, B.S.,

Investigation Team*



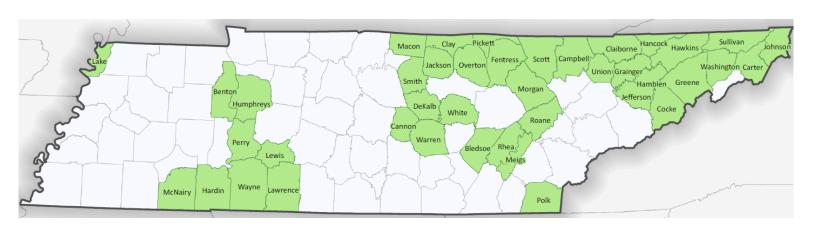


HIV/HCV Vulnerable Counties

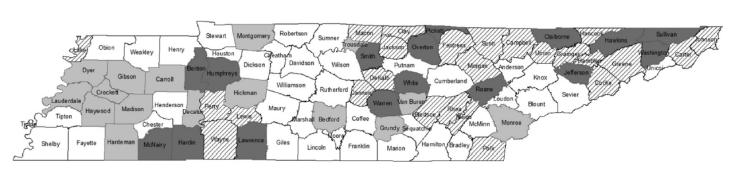




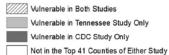
HIV Risk Vulnerability Assessment, TN, County Level (CDC, TDH)



Van Handel et al, JAIDS 2016







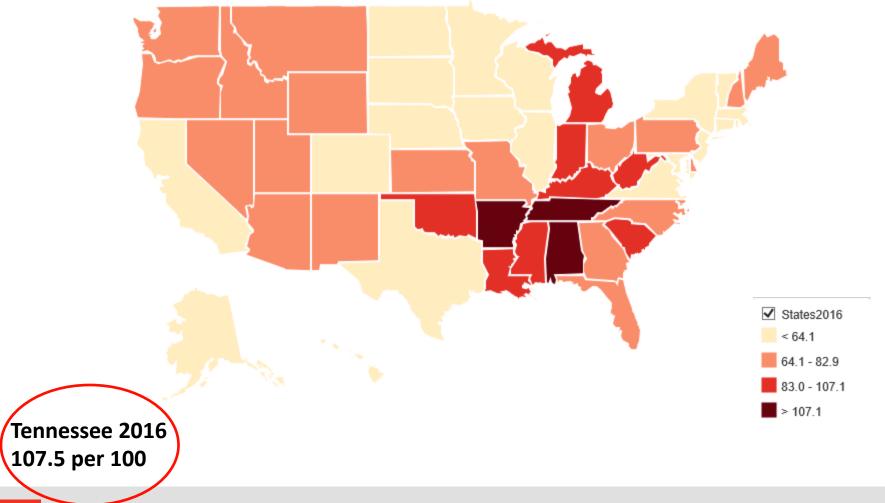




Opioid & HCV Syndemic

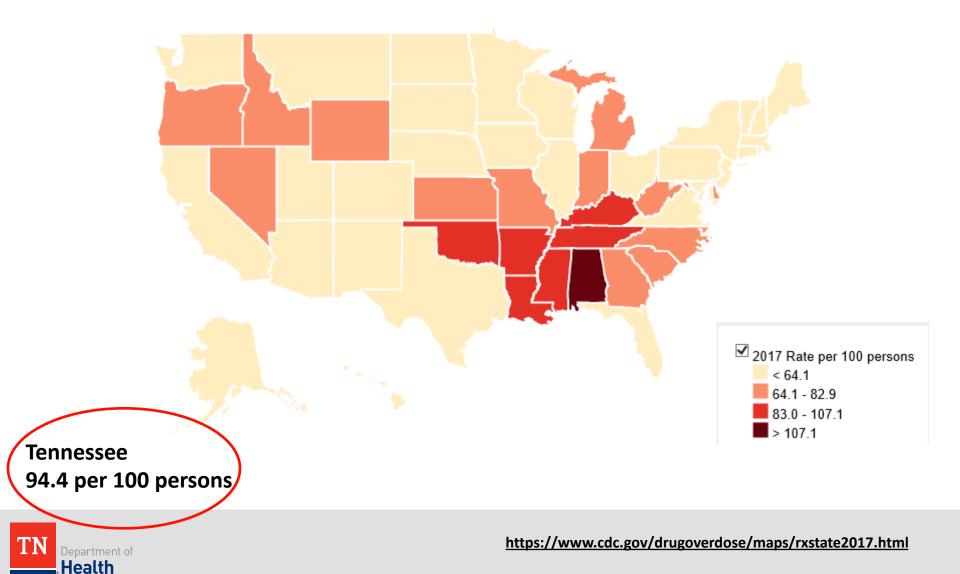
U.S. Opioid Prescribing Rates

per 100 U.S. Residents by State (2016)



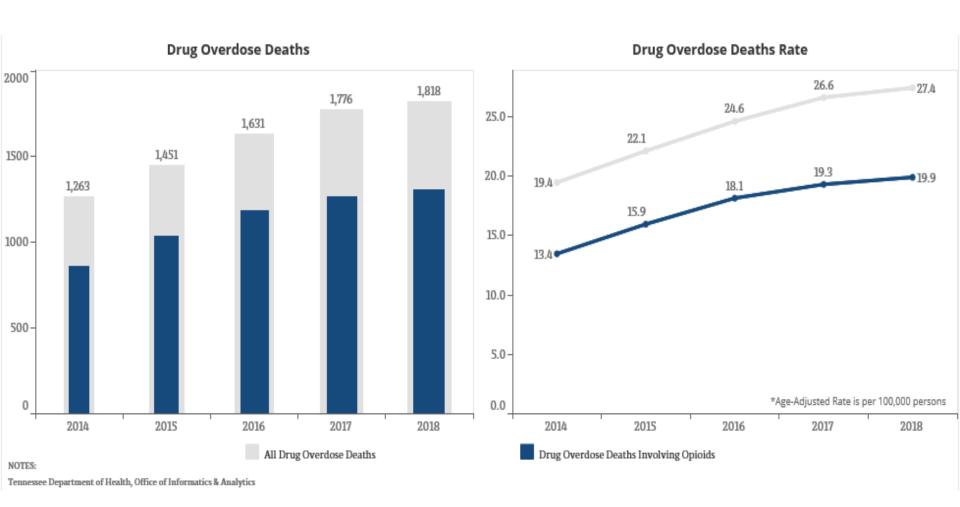
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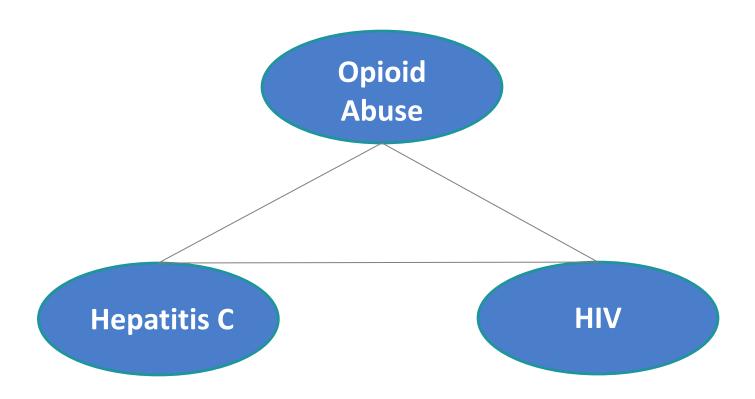
Drug Overdose Deaths & Death Rates

(TN, 2014-2018)

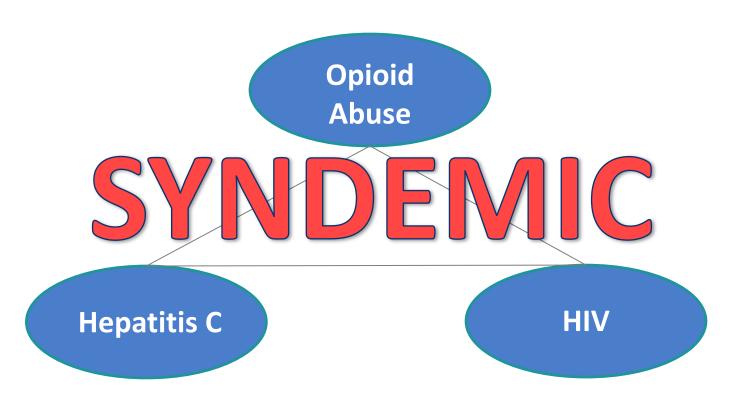




Intersection of Epidemics



Intersection of Epidemics



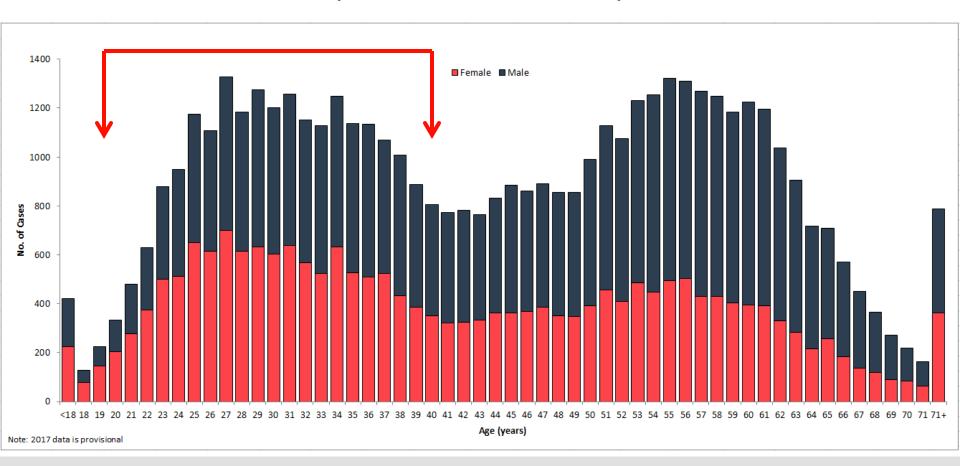




Hepatitis C Virus in Tennessee

Chronic HCV Infection

Newly Reported Confirmed & Probable Cases of Chronic HCV Infection in TN by Age (7/1/15-12/31/17, n = 48,773)





Surveillance for Chronic HCV in Tennessee

Case Classification	2014	2015*	2016	2017	2018
Confirmed	3,987 (58%)	7,832 (64%)	11,481 (57%)	11,337 (54%)	10,019 (50%)
Probable	2,861	4,389	8,786	9,690	10,047
Total (C + P)	6,848	12,221	20,267	21,027	20,066

^{*}TDH Central office chronic HCV surveillance efforts augmented beginning 7/1/15.



Increasing HCV Surveillance, Testing and Navigation to Care

Surveillance

- Outbreak Planning, Detection and Response
- Chronic HCV
- Perinatal HCV

Testing

- Health Department STD Clinics
- Intake testing of TDOC prisoners
- Community Based Partners

Navigation to Care

- Treatment (MH, SUD, HCV, HIV)
- Prevention (SSPs, Naloxone Distribution, Vaccinations, Family Planning)



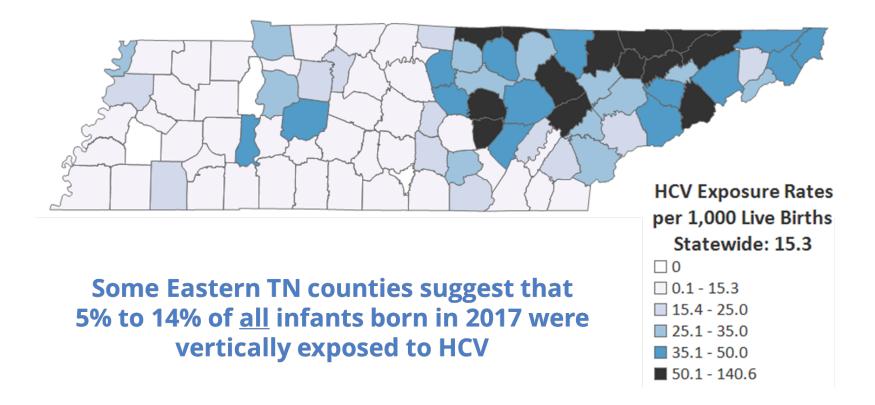
Lab Indication of Perinatal HCV Exposure

Voor	Live Births	NBS HCV Identified Moms	Moms in NBS with a Past or Present Infection			Total Exposed	HCV Exposed
Year			HCV Ab + only	HCV RNA +	HCV RNA -	(Ab+ & RNA+)	per 1,000 Births
2013	79,954	669	304	327	38	631	7.9
2014	81,609	850	311	501	38	812	9.9
2015	81,374	1,068	350	631	87	981	12.1
2016	80,755	1,409	477	770	162	1,247	15.4
2017	81,002	1,429	430	808	191	1,238	15.3
Total	404,694	5,425	1,872	3,037	516	4,909	12.1

Source: TDH NEDSS Based System, TDH Birth Statistical File 2013-2017



Perinatal HCV Exposures, 2017





HCV Testing in HD STD Clinics in TN

(4/1/17 - 3/31/18)

- 27,261 people tested
 - o 12.5% Ab (+)
 - 69.8% RNA (+)

Risk Factor	Total n (%) N = 27,261	HCV Ab (+) n (%) N = 3,407	HCV Ab (-) n (%) N = 23,854
Injection Drug Use	3,495 (12.8)	2,188 (62.6)	1,307 (37.4)
Intranasal Drug Use	6,032 (22.1)	2,123 (35.2)	3,909 (64.8)
Incarceration	7,781 (28.5)	2,206 (28.4)	5,575 (71.7)
Non-Professional Tattoo	6,804 (25.0)	1,542 (22.7)	5,262 (77.3)
Baby Boomers	2,949 (10.8)	768 (26.0)	2,181 (74.0)
No Risk Factors Reported	13,019 (47.7)	321 (2.5)	12,698 (97.5)



Screening Recommendations

USPSTF 2013

Summary of Recommendations Population Recommendation Grade (What's This?) Adults at High Risk The USPSTF recommends screening for hepatitis C virus (HCV) infection in persons at high risk for infection. The USPSTF also recommends offering 1-time screening for HCV infection to adults born between 1945 and 1965.

USPSTF Draft August 2019

Draft: Recommendation Summary					
Population	Recommendation	Grade (What's This?)			
Adults ages 18 to 79 years	The USPSTF recommends screening for hepatitis C virus (HCV) infection in adults ages 18 to 79 years.	В			



TDH Navigation to Treatment (7/3/17 – 3/31/18)

- VH Case Navigators (1 in each of 13 PHRs)
- 2,042 HCV RNA+ clients ID'd through HDs for follow-up
 - 1,991 clients (98%) had reported RFs
 - 69% -- IDU
 - 66% -- INDU
 - 68% -- Incarceration
 - 1,134 (56%) clients were verbally contacted and referred
 - 80% -- HCV treatment (n=912),
 - 21% -- Substance use disorder treatment (n=241),
 - 5% -- Mental health services (n=60),
 - <1% -- HIV care (n=9)</p>





Harm Reduction

National HIV & Hepatitis Overview

Injection Drug Use accounts for

~9% of new HIV cases ¹ and over 65% of HCV cases ²

Among people who inject drugs (PWID)

- ~7% are estimated to be living with HIV
- Only 57% report having been tested for HIV within the past 12 months
- Rates of linkage to care, retention in care, and viral load suppression are low
- 60%-90% have HCV after 5 years
- Median time to HCV transmission is ~3 years
- Each year ~ 20-30% of PWID acquire HCV ³

Comorbidity

- Among PWID living with HIV, 75% also have HCV
- Among PLWH w/o IDU, 25% have HCV ⁴



Economic Costs of Syndemic

Life time cost of <u>each</u> HIV infection is over \$380,000 ⁵ Accumulated costs of HCV care over the next 20 years given current treatment trends is over \$78 billion ⁶

Hospitalizations for Endocarditis and Associated Health Care Costs Among Persons with Diagnosed Drug Dependence — North Carolina, 2010–2015

Weekly / June 9, 2017 / 66(22);569-573

Aaron T. Fleischauer, PhD^{1,2}; Laura Ruhl, MD³; Sarah Rhea, DVM^{1,4}; Erin Barnes, MD⁵ (View author affiliations)



^{6.} National Academies of Sciences, Engineering, and Medicine, 2017. https://www.nap.edu/read/24731/chapter/8

^{7.} Fleischauer AT et al. Hospitalizations for Endocarditis and Associated Health Care Costs Among Persons with Diagnosed Drug Dependence — North Carolina, 2010–2015. MMWR Morb Mortal Wkly Rep 2017;66:569–573.

Preventing Infectious Diseases

- Syringe Services Programs (SSPs)
 - Most effective way to prevent infectious disease transmission for PWIDs ¹
 - Do not increase drug use or crime ²
 - SSP participants are 5 times more likely than nonparticipants to enter treatment ³



[.] Centers for Disease Control and Prevention, 2016. https://www.cdc.gov/vitalsigns/hiv-drug-use/index.html

^{2.} European Monitoring Centre for Drugs and Drug Addiction, 2010. http://www.emcdda.europa.eu/publications/monographs/harm-reduction_en

^{3.} Centers for Disease Control and Prevention, 2017. https://www.cdc.gov/hiv/pdf/risk/cdchiv-fs-syringe-services.pdf

SSPs Improve Outcomes

Come in many shapes and sizes



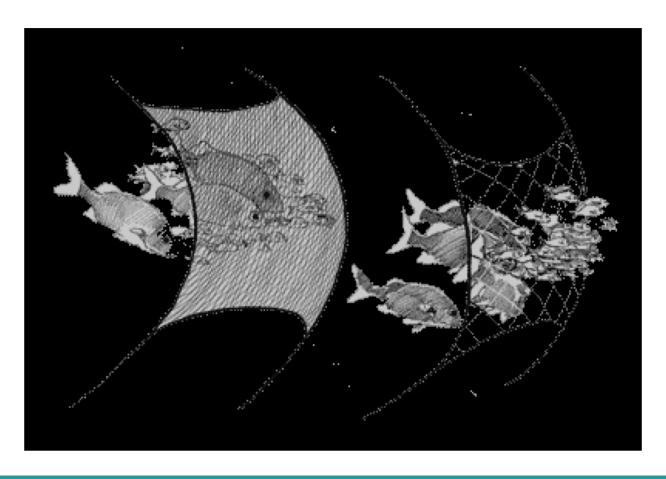




- Most effective when comprehensive services offered including:
 - 1) Medication-assisted treatment (MAT)
 - 2) HIV and HCV screening and treatment
 - 3) HIV pre-exposure prophylaxis (PrEP)
 - 4) Behavioral health services



Prevention and Treatment Binary



Prevention \rightarrow \rightarrow Harm Reduction \rightarrow

Treatment

Comprehensive Approach



Federal funds can be used for everything BUT

Syringes



Direct Injection Equipment



SSPs in TN: Legislation

- May 18, 2017: Signed into law (Tenn. Code Ann. 68-1-136)
- Who
 - Non-governmental organizations
 - Approved by TDH (initial application, annual reporting)
- What
 - Provision of needles, hypodermic syringes, and other injection supplies at no cost
 - Disposal of used needles and hypodermic syringes
 - Educational materials
 - Access or referral to naloxone
 - Availability of on-site consultation for MH and substance use disorder treatment
 - (Provision of SSP participant cards)



SSPs in TN: Legislation

Restrictions

- No public funds can be used to purchase needles, hypodermic syringes, or other injection supplies
- Written security plan (site, equipment, personnel) required to be shared with local law enforcement, updated annually
- No SSP operations within 2000 feet of schools or public parks

Protections / Exceptions (Tenn. Code Ann. 39-17-4)

- No charges for possession of needles, hypodermic syringes, injection supplies or residual substance contained within these devices (as long as they were obtained from or being returned to an approved SSP)
- Exception only applies to possession for participants with <u>written verification</u> of participation in an approved SSP while either <u>at the SSP or in transit</u> to or from the SSP
- Equipment possession exception also applies to operators of verified SSPs



SSPs in TN

Amendments 2018

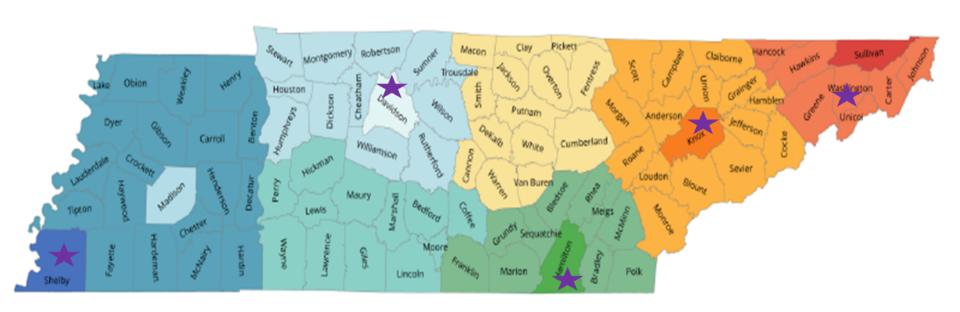
- 2000 ft restriction (schools & public parks) ψ to 1000 ft in 4 metros
- LHDs can establish & operate SSPs ... if... approved & funded by county Commission

Progress

- 6 agencies approved
- Partner with MHSA Regional OD Prevention Specialists (ROPS)
- Feb 2018 June 2018
 - > 125,000 needles & syringes distributed
 - > 36,000 needles & syringes collected
 - > 1,600 referrals made for SUD and MH treatment
 - 672 naloxone kits supplied



Tennessee Counties with Syringe Services Programs October 2019



= county with ≥ 1 syringe services program

Memphis-Shelby: 2 agencies (2 mobile sites)

Nashville-Davidson: 1 agency (2 mobile sites, 1 fixed site) Chattanooga-Hamilton: 1 agency (1 mobile site, 1 fixed site)

Knoxville-Knox: 1 agency (2 mobile sites)

Johnson City-Washington: 1 agency (1 fixed site)



SSPs in TN: Application & Annual Reporting

Application

- Organization name, areas and populations to be served, and methods for achieving program requirements
- Annual Reporting (w/in 1 year of approval and annually thereafter)
 - Number of individuals served, types of supplies dispensed and disposed, and naloxone kits distributed
 - Number and types of other services and referrals provided
 - Education, counseling, testing, treatment

How / Where

- Form
- Direct online entry or traditional forms
- https://www.tn.gov/health/health-program-areas/std0/std/syringe-servicesprogram.html



Navigation Services

- TDH
 - HCV Navigators (x 13)
- TDMHSAS
 - Regional Overdose Prevention Specialists (x 17)
 - Narcan trainings & distribution
 - TN Recovery Navigators (x 11)
 - Meet with patients seen in EDs due to OD
 - Provide information & navigate clients to treatment (30 days)
 - Lifeline Peer Project (x 10)
 - Provide recovery trainings,
 - Refer people to SUD treatment
 - Establish recovery meetings



TDH: <u>lindsey.sizemore@tn.gov</u> **TDMHSAS:** monty.burks@tn.gov

Recap: Opioid / HCV Syndemic & HIV Vulnerability

Progress

- Enhanced surveillance (HCV, opioid, ODs)
- Established HCV testing
- Variety of navigation services
- Augmented HCV treatment capacity
- Established SSPs in 5 counties
- Established molecular surveillance (HIV, HCV)

Challenges

- Extremely high rates of HCV
- Vulnerability for HIV among PWID
- Limited SSP access in rural counties
- Limited access to treatment for PWID (SUD, HCV)
- Determining best use of molecular surveillance
- Coordinating navigation services

