# Exploring Resources and Different Treatment Models for Hepatitis C Virus and Opioid Use Disorder

Part 2: Combined Infectious Disease and Opioid Use Disorder Treatment with Special Populations

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### **National Nurse-Led Care Consortium**

The National Nurse-Led Care Consortium (NNCC) is a membership organization that supports nurse-led care and nurses at the front lines of care.

NNCC provides expertise to support comprehensive, community-based primary care.

- Policy research and advocacy
- Technical assistance and support
- Direct, nurse-led healthcare services

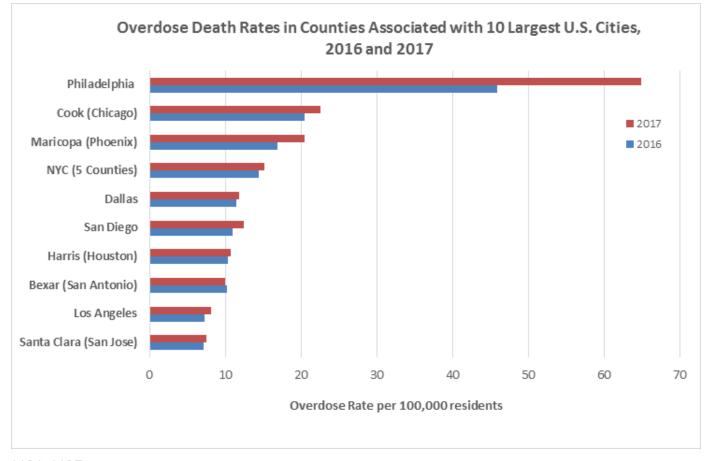


# Question & Answer

During the presentation, you may ask questions. Click **Q&A** and type your questions into the open field.

The Moderator will either send a typed response or answer your questions live at the end of the presentations.

# Philadelphia had the highest overdose death rate of the top 10 largest U.S. cities in 2016 and 2017





# Enhanced HCV Screening and Treatment Services at PHMC

- In 2012, Public Health Management Corporation health centers in Philadelphia instituted expanded HCV screening and treatment with support from NNCC Gilead FOCUS:
  - Universal opt-out HCV screening for 18 and older
  - Reflex to RNA screening for HCV Ab-positive patients
  - Care coordination and patient navigation
  - Integrated behavioral health consultations and substance use disorder counseling and treatment
  - In-house treatment for HCV



### **HCV** Positive Patient Data

- PHMC serves over 19,000 patients
- From 2012-2016: 15,000 patients tested
- 884 patients confirmed chronic HCV positive (~6% prevalence)
- HCV positive patient data (based on testing data from October 2012-June2016):
  - 53% RNA Positive patients reported IDU (19% were missing documentation).
  - 90% of the patients chronically infected were publically insured by Pennsylvania (Medicaid).
  - 63.7% of RNA Positive patients had a history of mental health disease



### **HCV Testing in PWID**

- Getting tested for HCV, reduces drug use in PWID
- One Opioid Substitution Therapy (OST) program showed reduced injection opioid use
  - 8.1% reduction in PWID if test positive
  - 6.7% reduction in PWID if test negative
- Benzo, cocaine and other nonRx drug use also reduced

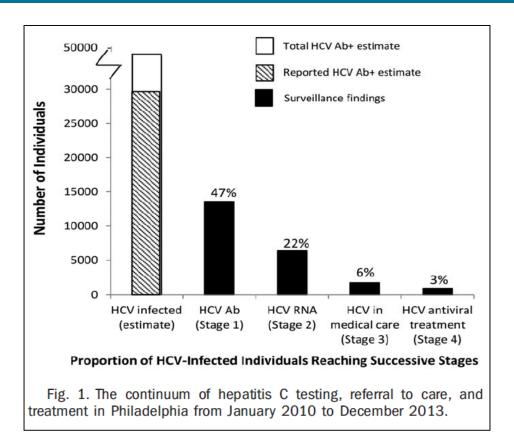


# Treatment in health center setting

- All patients receive primary care from primarily PAs/NPs with support from physicians
- Integrated care setting with Behavioral Health Consultants (BHCs,) case managers, as well as substance abuse support (medication assisted treatment program/peer recovery support)
- PCPs trained internally with experienced providers offering classes, mentorships and case study conversations
- Treatment Referral Coordinator works across network to assist with prior authorization process and medication adherence



# HCV Continuum in Philadelphia





### HCV Care Continuum at PHMC Care Clinic

Measuring Impact: How the FOCUS Model Transformed Testing and Linkage to Care at a Philadelphia Health Center

Figure 2: HCV Treatment Continuum at PHMC Care Clinic (January 2015-March 2017)

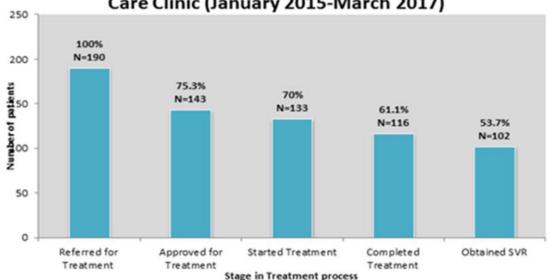


Figure 2 examines the treatment continuum for patients that received onsite HCV treatment at the PHMC Care Clinic.

Cos, T. A., Bartholomew, T. S., & Huynh, K. J. (2019). Role of behavioral health providers in treating hepatitis C. Professional Psychology: Research and Practice, 50(4), 246-254. http://dx.doi.org/10.1037/pro0000243



# Integration of HCV and SUDs treatment in a homeless health care setting

Marguerite Beiser, ANP-BC, AAHIVS 10/29/19





• I have no disclosures

- Maps and graphs have been shared with permission and cited
- Thank you to my patients and colleagues at Boston Health Care for the Homeless Program!

### Outline

- Overview of syndemic\* in Massachusetts
  - Substance use disorders (SUDs)
    - Opioid/Overdose crisis
  - Homelessness
  - Hepatitis C (HCV)

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There is new hope for people with Hep C

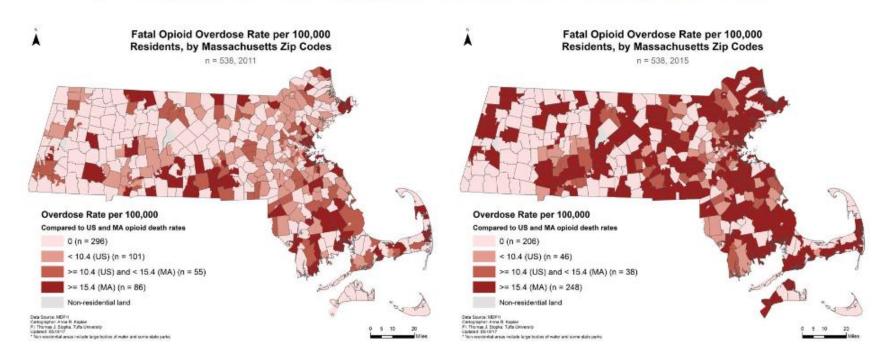
http://www.endhepcsf.org/

- Review HCV treatment in community settings and among people with SUDs
- Not specifically addressed today: HIV, poverty, structural violence/trauma, racism
- Boston Health Care for the Homeless Program (BHCHP)
  - Examples of programming specifically targeting HCV and SUDs
    - Successful integration
    - Areas in need of further growth and integration

<sup>\*</sup> Syndemic- synergistic interaction of two or more coexistent diseases and resultant excess burden of disease- Singer M, Clair S. Syndemics and public health: reconceptualizing disease in bio-social context. *Med Anthropol Q.* 2003;17(4):423-441.

# Shifting incidence of fatal opioid overdoses in MA

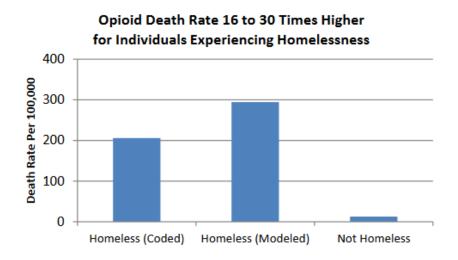
Increasing and Spreading Opioid-Related Overdose Death Rates in Massachusetts from 2011 to 2015<sup>2</sup>



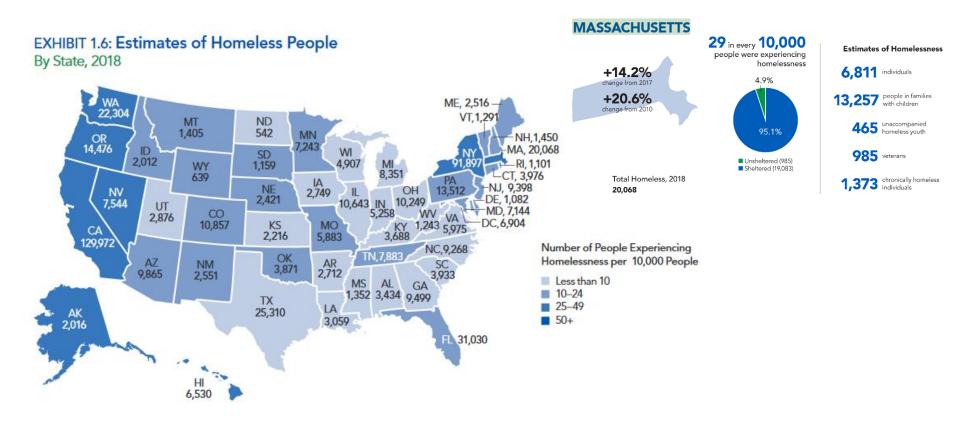
2011 2015

# Opioid-involved overdoses among homeless individuals in MA

 The opioid overdose death rate is between 16 and 30 times higher for the homeless individuals compared to the rest of the adult population.<sup>53</sup>



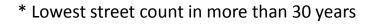
# National and MA homeless incidence, 2018



# Boston homeless incidence, 2019

- 6,203 total homeless individuals and families
  - 2,348 individuals
    - 121 people on the streets\*
  - 1,221 homeless families
    - 3,855 family members







### Housing status matters:

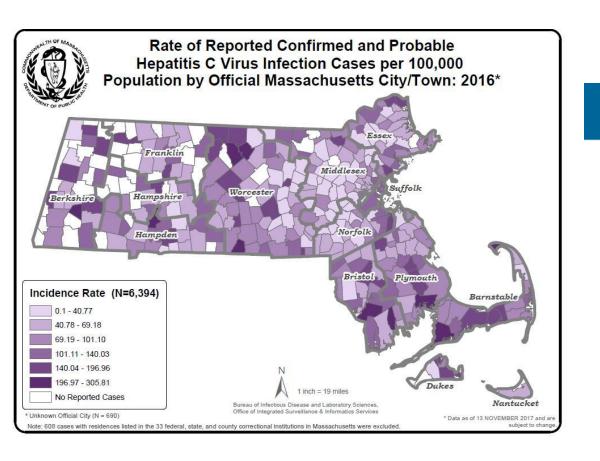
# Stark disparities in prevalence of HCV and HIV between housed and homeless

HCV	
Population studied	Prevalence
Household phone survey <sup>1</sup>	1%
Homeless at 7 HCH sites <sup>2</sup>	31%
Homeless @BHCHP <sup>3</sup>	23%

HIV	
Population studied	Prevalence
National estimate <sup>4</sup>	0.3%
Homeless meta-analysis world-wide <sup>5</sup>	0.3%-21%
Homeless in the US estimate <sup>6</sup>	3.4%
Homeless @BHCHP <sup>7</sup>	2.7%

- 1. Hofmeister MG, Rosenthal EM, Barker LK, et al. Estimating Prevalence of Hepatitis C Virus Infection in the United States, 2013-2016. Hepatology. 2019;69(3):1020-1031.
- 2. Strehlow AJ, Robertson MJ, Zerger S, et al. Hepatitis C among clients of health care for the homeless primary care clinics. J Health Care Poor Underserved. 2012;23(2):811-833.
- 3. Bharel M, Lin WC, Zhang J, O'Connell E, Taube R, Clark RE. Health care utilization patterns of homeless individuals in Boston: preparing for Medicaid expansion under the Affordable Care Act. Am J Public Health. 2013;103 Suppl 2:S311-317.
- 4. Burnett JC, Broz D, Spiller MW, Wejnert C, Paz-Bailey G. HIV Infection and HIV-Associated Behaviors Among Persons Who Inject Drugs 20 Cities, United States, 2015. MMWR Morb Mortal Wkly Rep. 2018;67(1):23-28.
- 5. Beijer U, Wolf A, Fazel S. Prevalence of tuberculosis, hepatitis C virus, and HIV in homeless people: a systematic review and meta-analysis. Lancet Infect Dis. 2012;12(11):859-870.
- 6. HIV/AIDS and Homelessness. 2009.
- 7. Internal data

# Hepatitis C incidence and prevalence in MA

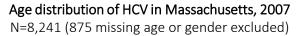


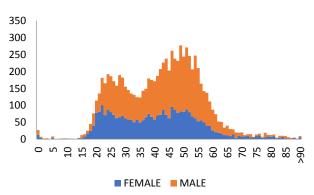
### The Massachusetts example

- How many cases does a jurisdiction have evidence for? 120,781
  - What proportion of cases are estimated to have been diagnosed? 45% (HHS Action Plan)
  - How many cases have spontaneously cleared the virus? 15-25%
  - How many cases have been treated successfully (cured)? 5%
  - How many cases have died? 9%

# Age distribution of new HCV infections in Massachusetts 2007 → 2016

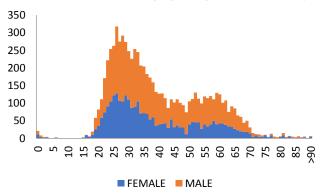
The age distribution of HCV infection has shifted in the last decade, now reflecting a population predominantly under the age of 40





### Age distribution of HCV in Massachusetts, 2016

N=7,612 (217 missing age or gender excluded)

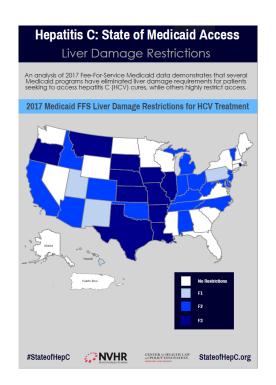


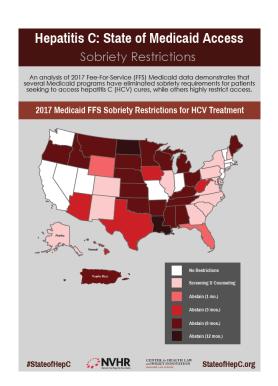
Conservative estimates by MA DPH suggest that HCV prevalence in people under 30 is 24x what is predicted by the CDC

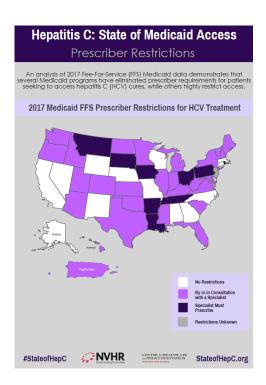
# **HCV** Treatment in a Nutshell

- Combination targeted therapy- Direct-Acting Antiviral (DAA) Therapy
- Broadly adopted clinical guidelines: IDSA/AASLD www.hcvguidelines.org
- In 2019 HCV treatment is near universally:
  - 8-12 weeks duration
  - Pangenotypic
  - >95% cure rate (Sustained Virologic Response, SVR)
  - Well-tolerated
- Special considerations for patients with decompensated cirrhosis, ESRD
- Drug-drug interaction review is critical

# Ongoing barriers to HCV treatment

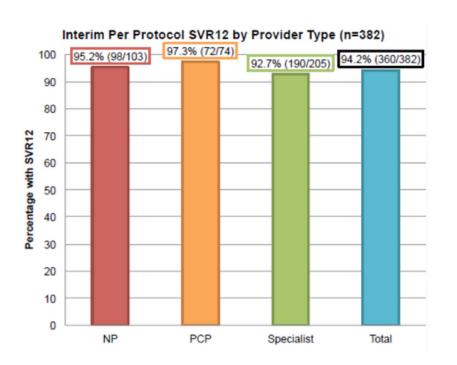






Also... stigma, competing priorities, time/administrative burden, lack of funding, etc

### HCV Treatment by non-specialist MDs and NPs



#### Conclusion:

"In a real-world cohort of patients at urban FQHCs, HCV treatment administered by nonspecialist providers was as safe and effective as that provided by specialists. Nurse practitioners and PCPs with compact didactic training could substantially expand the availability of community-based providers to escalate HCV therapy, bridging existing gaps in the continuum of care for patients with HCV infection."

Kattakuzhy S, Gross C, Emmanuel B, et al. Expansion of Treatment for Hepatitis C Virus Infection by Task Shifting to Community-Based Nonspecialist Providers: A Nonrandomized Clinical Trial. Ann Intern Med. 2017;167(5):311-318.

### AASLD/IDSA recommendations for HCV treatment

Goal of Treatment	
RECOMMENDED	RATING 1
The goal of treatment of HCV-infected persons is to reduce all-cause mortality and liver- related health adverse consequences, including end-stage liver disease and hepatocellular carcinoma, by the achievement of virologic cure as evidenced by a sustained virologic response.	I, A

Recommendation for When and in Whom to Initiate Treatment					
RECOMMENDED	RATING 1				
Treatment is recommended for all patients with chronic HCV infection, except those with a short life expectancy that cannot be remediated by HCV therapy, liver transplantation, or another directed therapy. Patients with a short life expectancy owing to liver disease should be managed in consultation with an expert.	I, A				

### Per AASLD/IDSA

- Ideally, treatment should occur in multi-disciplinary setting that offers addiction treatment, but the absence of this type of setting is not a contraindication for treating PWIDs
- There is strong evidence of high adherence, sustained virologic response, and low rates of reinfection among PWIDs
- Treating HCV among people are actively using drugs can reduce transmission to others
- Treating at lower fibrosis stages has a greater mortality benefit and improved regression
- Treating women of child-bearing age prevents vertical transmission

# HCV treatment among people who inject drugs

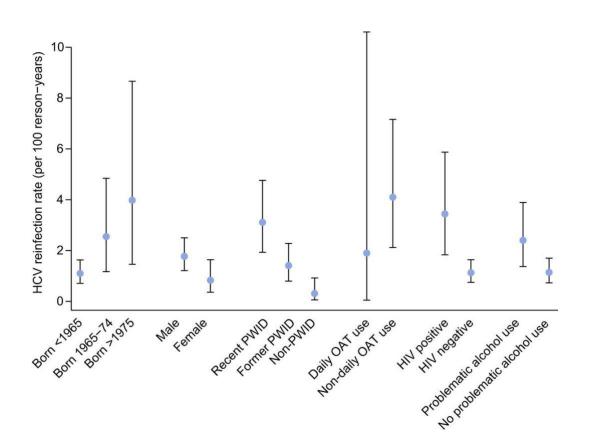
- 2018 meta-analysis: PWID achieve HCV cure at high rates
  - ~87% SVR among recent and ongoing PWID
  - ~90% SVR among individuals on opioid substitution tx

	Number of studies or substudies	Number of participants	Treatment completion (95% CI)	<b>l</b> <sup>2</sup>	ITT SVR (95% CI)	<b>l</b> <sup>2</sup>	mITT SVR (95% CI)	P	Loss to follow- up (95% CI)	l <sup>2</sup>
Exclusive study population/subpopulation										
Recent IDU, with or without OST	8	670	96-9% (95-6-98-2)	0-0%	87-4% (82-0-92-8)	80-8%	91-7% (87-9-95-4)	66-1%	2-8% (0-5-5-2)	74-8%
OST, with or without recent IDU/non-IDU	25	2331	97-5% (96-5-98-5)	49-9%	92.6% (90.2–94.9)	79.5%	95-3% (93-6-97-0)	72-5%	3-0% (1-7-4-3)	65-5%
Other	10	633	96-5% (94-5-98-5)	45.7%	86.7% (80-2-93-2)	87-0%	93-8% (90-3-97-2)	76-3%	7-3% (2-6-11-9)	88-1%
Study design										
Observational	28	2483	96-9% (95-9-98-0)	51-6%	88-8% (85-8-91-9)	87-1%	93-4% (91-3-95-5)	80.2%	4-6% (2-9-6-3)	84-1%
Clinical trial	10	1151	98-2% (97-4-99-0)	0-0%	93.9% (92.5-95.3)	7-2%	96-2% (94-6-97-8)	52.4%	2-5% (1-2-3-8)	51-1%
IDLE injecting drug use TIT-intention to treat mITT-modified intention to treat non-IDLE non-injecting drug use OST-opioid substitution therapy SVR-sustained virological response										

IDU=injecting drug use. ITT=intention to treat. mITT=modified intention to treat. non-IDU=non-injecting drug use. OST=opioid substitution therapy. SVR=sustained virological response

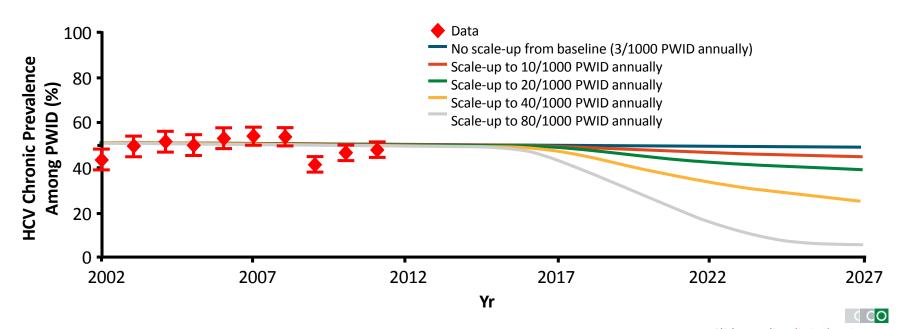
Table 3: Pooled estimates of treatment completion, SVR and loss to follow-up, by study population and study design

# Reinfection among British Columbia Hepatitis Testers Cohort (n=4,114)



# HCV Treatment Scale-up in High-Risk Populations Can Prevent Onward Transmission

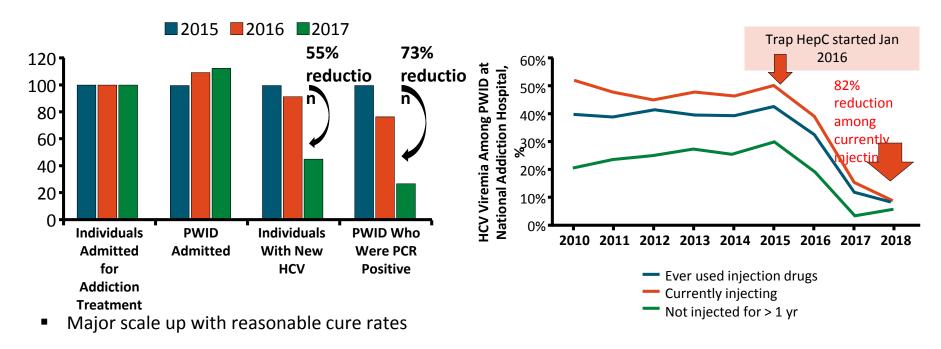
 Observed and modeled HCV chronic prevalence among PWID in Melbourne, Australia



Martin. Hepatology. 2013;58:1598.

Slide credit: clinicaloptions.com

# TraP Hep C: HCV Treatment as Prevention Program in Iceland Reduced Incidence in 2 Yrs



- Overall SVR: 89%; SVR for patients who completed treatment: 95%
- Dramatic reduction in community viral load and HCV incidence



Runarsdottir. AASLD/EASL HCV Special Conference 2019.



# BOSTON HEALTH CARE for

#### PROGRAM STATS

10,600+ unique patients

130,000 visits in 2017 200

\$55M budget, **⊙** 33

years in

operation

**Q** 40+

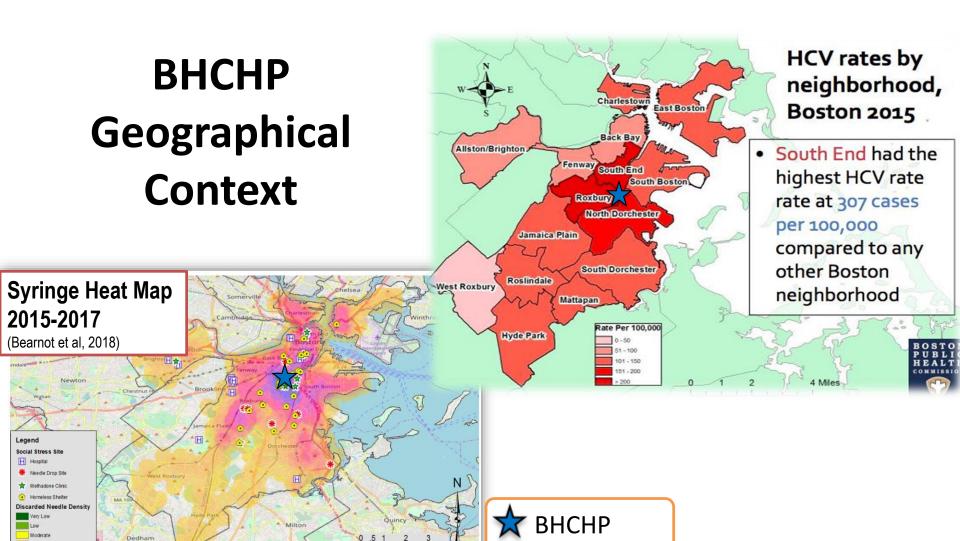
60% patients with SUD

# **Boston Health Care for the Homeless Program**



# Quick Check In





Very High







Chris (far left) shot beroin behind a house in Boston as his friend Shaun watched; they had just spent the night in a homeless shelter.

■ Sherry (above), a homeless woman who said she has been on and off drugs, leaned against a street sign outside the Cumberland Farms store at the corner of Mass. Ave. and Albany Street.

■ At left, Leonardo, wearing a Batman mask, walked along Mass. Ave. 'I want to be able to work here,' he said. 'I'm not asking for a free check. . . I'm asking for a job and a place to live and to be part of society here.'

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# A police officer and a security guard chased an alleged drug dealer after he run away during questioning; at right, police handcuffed the suspect as the guard stood by

### THE OVERDOSE CRISIS

- Drug overdose was leading cause of death for cohort of 28,033 adults seen at BHCHP from 2003 to 2008\*
- Opioids implicated in 81% of overdose deaths\*
- Overdoses frequently happening in our building
- Significant existing addictions programming



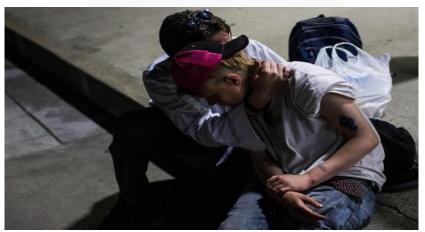
#### BHCHP'S SUD SERVICES

#### A HARM REDUCTION APPROACH

We believe in a world without stigma. We recognize the need to expand access to all types of addiction treatment, on demand. But we also recognize a parallel need to reduce the harms associated with drug use for people who do not seek treatment or cannot access treatment currently. We do not require our patients to stop using before we start helping them.

#### PARTNERS & COLLABORATORS

People who Inject Drugs, Bay Cove, BPHC & AHOPE, BMC & the Grayken Center for Addiction, Boston Rescue Mission, Casa Esperanza Kraft Center for Community Health, MGH, NECHV, Pine Street Inn, St. Francis House, Victory Programs, ... and many more!



### THE OVERDOSE CRISIS



### MAT

Medication for Addiction
Treatment (MAT), such
as buprenorphine and
naltrexone, is provided by
individual waivered
clinicians and by a
centralized team, with
services coordinated by
nurse care managers and
therapists, in
collaboration with
physicians.



### ACCESS TEAM

The Addiction
Collaborative and
Expedited Support
Services (ACCESS)
team provides
expedited primary
care, MAT, and
individual and group
therapy for those at
highest risk of
overdose.



### CAREZONE

The CareZONE
health van provides
accessible, high
quality primary care
and addiction services
to individuals in
Boston's overdose
"hotspots" who are
not already well
connected
to health care or
addiction treatment.



#### SPOT

The Supportive Place for Observation and Treatment (SPOT) actively engages people who inject drugs, and provides medical monitoring of oversedation, harm reduction services, and linkages to treatment.



### NALOXONE

BHCHP offers overdose education and naloxone trainings to all patients and staff. We also distribute naloxone rescue kits to all those at risk of experiencing or witnessing an overdose.

### SPOT\* STATS: 2016-2018

800+

unique

visitors

**7,139** encounters

**22**%

direct connections to medical or mental health care 24%

visitors referred to substance

use treatment

\* BHCHP's Supportive Place for Observation and Treatment (SPOT).

Data reflect visits in the 2 years between April 2016 and March 31, 2018.

### THE OVERDOSE CRISIS



### THERAPY ON-DEMAND

Through our "Open Access" system, patients are able to access same-day therapy appointments with licensed clinicians, eliminating wait times and supporting patients in times of crisis.



Program wide, we strive to improve outcomes across the opioid use disorder cascade of care—that is, at each stage of care, from initial diagnosis to achievement of sustained recovery.



### SUD GROUPS

Peer support and group therapy is incredibly helpful to our patients, and is offered daily, including at the Barbara McInnis House, where patients receive 24/7 respite care.



### INTEGRATED BEHAVIORAL HEALTH

Behavioral Health clinicians work side by side with primary care teams and help to manage co-occurring PTSD, depression, anxiety, and other mental illnesses.



### BATHROOM MONITORING

To respond to the almost daily overdoses happening in our public bathrooms, we use close monitoring and have installed reverse motion detectors, alerting us when someone has not moved in 3 minutes.



### ADVOCACY

We actively participate in community meetings with neighborhood & government partners seeking solutions.



### RISK ROUNDS

Monthly discussions with specialists from MGH foster multidisciplinary, team-based problem-solving.

# Significant burden of HCV at BHCHP

- 23% HCV prevalence (2010 Medicaid claims data)<sup>1</sup>
  - Updated (2016) internal report suggests 11.6%
- HCV dx associated with excess health care utilization and cost<sup>1</sup>
- Excess mortality from liver cause<sup>2</sup>
- Needs assessment of BHCHP patients with HCV<sup>3</sup>
  - 74% indicated interest and confidence in ability to complete **HCV** treatment
  - Majority identified primary care as preferred location for treatment

<sup>1.</sup> Bharel M, Lin WC, Zhang J, O'Connell E, Taube R, Clark RE. Health care utilization patterns of homeless individuals in Boston: preparing for Medicaid expansion under the Affordable Care Act. Am J Public Health, 2013:103 Suppl 2:S311-317.

<sup>2.</sup> Baggett TP, Chang Y, Porneala BC, Bharel M, Singer DE, Rigotti NA. Disparities in Cancer Incidence, Stage, and Mortality at Boston Health Care for the Homeless Program. Am J Prev Med. 2015;49(5):694-702.

<sup>3.</sup> Beiser M, Leon C, Gaeta JM. Needs Assessment of HCV-Infected Individuals Experiencing Homelessness and Implications. J Health Care Poor Underserved. 2017;28(1):596-606.

#### **HCV Treatment Team**

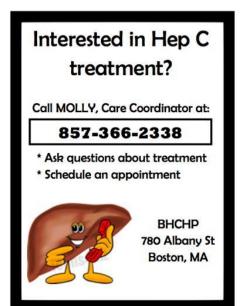
**HCV Team**: Founded in 2014

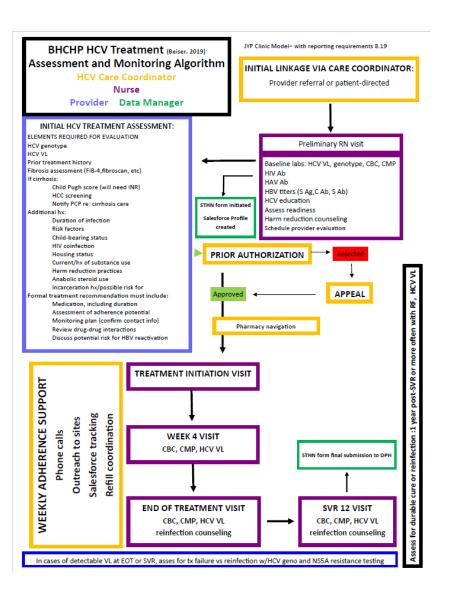
- Case manager- referrals, PAs, adherence support
- Nurse- intakes, on treatment visits/labs
- Providers- assess liver health and recommend tx
- Program Director- supervises team, sees pts, guides quality and research agenda, manages grants

#### **Funding:**

- Internal BHCHP
- Kraft Center for Community Health, Practitioner Program (supported time for HCV Director)
- National Viral Hepatitis Roundtable (NVHR) minigrant
- MA Department of Public Health as of 11/17







#### BHCHP guiding principles for HCV treatment

- Everyone should be treated. Reduce barriers, don't add them
  - Nobody has to "prove that they really want it" in any other aspect of their health care
- Recognize that you have power to prioritize HCV care alongside other health issues
  - There is no perfect situation
  - Kept appointments as proxy for stability
  - Readiness can be assessed over time
- Do not assume things are stable on treatment
  - Weekly adherence checks are central to our model, allow team to respond quickly to destabilizing issues, such as:
    - Change in housing status
    - Loss or theft of medication
    - · Loss of insurance
    - Relapse/progression to more chaotic drug use and increased exposure risk
    - Incarceration



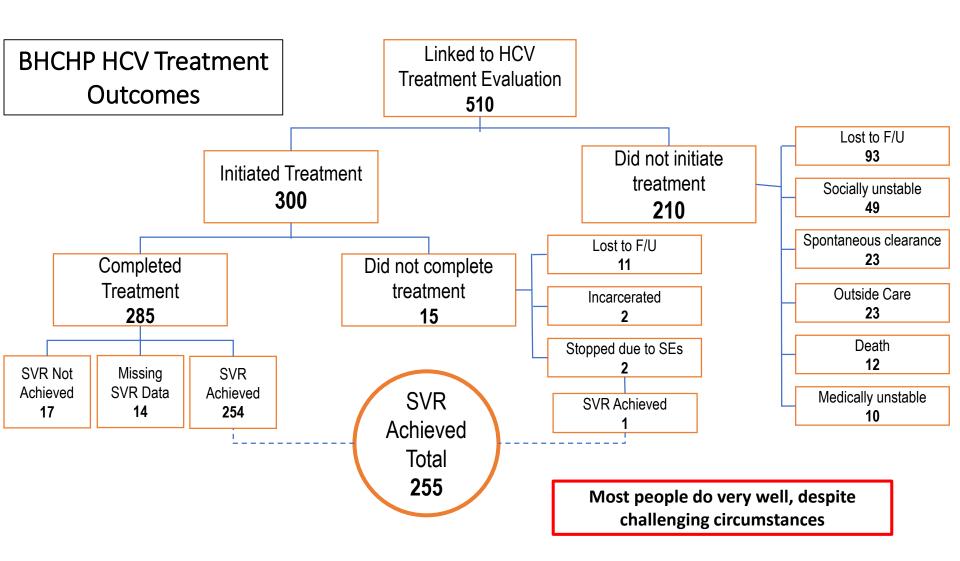
# Pearls related to treating HCV among people currently using drugs

- Obtain as many points of contact as possible
  - Phone numbers, email/MyChart, case workers at programs, contacts at syringe exchange programs (SEPs), etc
- Try to treat couples or other drug-using partners concomitantly
- Try to reinforce that the goal is to continue HCV therapy through any challenges
  - Destigmatize
  - Keep communication flexible and responsive to times of crisis
  - Anticipatory guidance to reduce risk of reexposure
  - \*\*\*MAT on demand by HCV treater

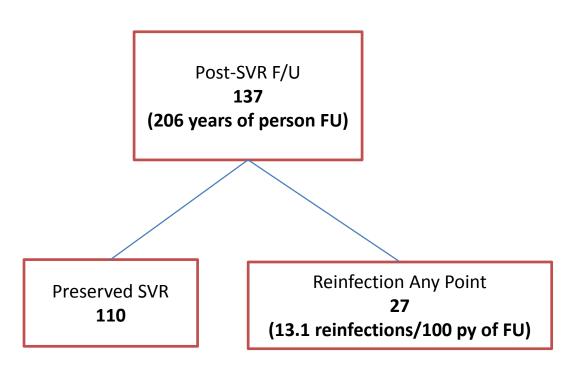


## Solutions to Practical Challenges

Challenge	Solution
Readiness	Multiple visits to gauge adherence potential Anticipate RF for tx interruption Collaborate with established care teams who know pt well
Medication loss/theft prevention	DOT, weekly pill boxes, home delivery, emergency insurance override
No phone	Pre-arranged appts My Chart, if applicable Outreach to nearby shelter/program settings at reliable intervals
Lack of transportation	Bus passes, medication delivery, satellite laboratory
Competing priorities	Decrease barriers as much as possible Co-schedule with PCP or OBAT/MMT Limit unnecessary travel Accept less than perfection
Specialty pharmacies (copay, home delivery, time)	HCV team care coordinator navigates for pt Insurance authorized rep Mail to clinic



#### **BHCHP Post SVR Follow Up**



Median time to reinfection: 168 days (IQR=81-207)

In univariate analyses, reinfected individuals were more likely to be:

- Hispanic (p=0.017)
- Literally homeless (p=0.007)
- Dx OUD (p=0.012)
- IDU HCV risk factor (p=0.026)
- Address change during treatment (p=0.004)

# Challenges to HCV and SUDs integration at BHCHP

- Siloed programs, even within same organization
- All of us are "putting our fingers in the dam" to try to meet an overwhelming need
- Ad hoc collaboration
  - All BHCHP providers are x-waivered
  - HCV treaters also AAHIVSs, OBAT providers and PCPs
  - Benefit from colocated BH, addiction and HCV services (limited to main site and one veterans shelter, initially)
  - Shared EMR- can cross-collaborate on adherence check-ins, labs, med delivery

### Plans for improved HCV and SUDs integration

- Where we are going:
  - Expanded training of OBAT providers/PCPs in shelter and street-based settings to perform their own HCV tx assessments
    - Decentralize treatment access
    - Promote continuity across primary, addiction, and HCV care
  - Case manager specifically for support of outreach site providers and patients added 10/19
  - Correctional Linkage to Care for HCV combined with buprenorphine treatment in pre-release period at local HOC
  - Panel management review between HCV team and OBAT to systematically approach elimination
  - Enhanced relationship with SEP next door to our site
  - Improved focus on reinfection prevention

# Thank you for your time!

**Questions?** 



mbeiser@bhchp.org

#### To receive credit...

We will send an email with a link from Clinical Directors Network within 1-2 days after the webinar.

You must complete to receive credit and the certificate will arrive within 1 week of completing the survey.



#### **National Nurse-Led Care Consortium**

Remaining webinars for the Learning Collaborative Series:

Part 3: Implementing an Enhanced HCV Screening Model in Iowa

Tuesday November 12, 2:00 pm ET

Part 4: Expanding Medication Assisted Therapy in Philadelphia

- Tuesday December 3, 2:00 pm ET
- NNCC will host an extra 30 minutes for "office hours"
- Extended Q&A and discussion topics for a related article



## Thank you!

### **NNCC Contact Information**

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Kevin Leacock, Public Health Project Coordinator kleacock@phmc.org

#### Office Hours

Discussion Questions, Best Practices, Case Presentations Marguerite Beiser, ANP-BC, AAHIVS Boston Healthcare for the Homeless Program

Jillian Bird, RN
Nurse Training Manager
National Nurse-Led Care Consortium

