### **Reducing barriers to access** and engagement in hepatitis **C** care through integration

#### PRESENTED BY

Amanda Giacomazzo, Moderator Dr. Shruti Mehta **Rachael Edwards** Matthew Bonn

December 5<sup>th</sup>, 2019



### Webinar Agenda (1.5 hours)

• Welcome and speaker introductions

### Amanda Giacomazzo, 5 minutes

 Identifying and overcoming barriers to hepatitis C care for people who use drugs; integrating/co-locating services

#### Dr. Shruti Mehta, 30 minutes

Canadian front line program experience with hepatitis C testing and treatment integration

Rachael Edwards, 15minutes

Matthew Bonn, 15 minutes

• Questions

All, approximately 30 minutes

### Dr. Shruti Mehta

Shruti Mehta is a Professor and the Deputy Chair of the Department of Epidemiology at the Johns Hopkins Bloomberg School of Public Health.

Her research focuses on HIV and hepatitis C virus (HCV) infection among people who inject drugs (PWID) in the US and in India with a particular interest and focus on identifying and overcoming barriers to access care and treatment for HIV and HCV.

## Reducing barriers to access and engagement in hepatitis C care through integration

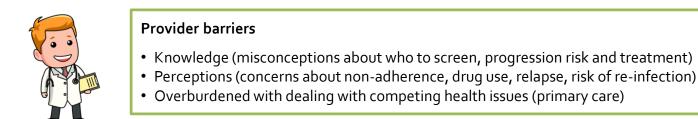
### Shruti H. Mehta

Department of Epidemiology Johns Hopkins Bloomberg School of Public Health

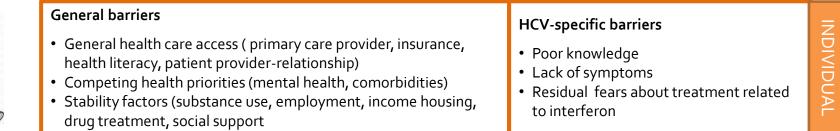
December 5, 2019

#### There are <u>numerous</u>, <u>layered barriers</u> to optimal engagement in HCV care/treatment...

| Government / Health care system issues  | Social context  | S         |
|---|---|-----------|
| <ul> <li>Limited accessibility of HCV care locations</li> <li>Insufficient funds allocated for HCV</li> <li>Overburdened health systems</li> <li>Cost of medications/testing/staging</li> <li>Segregated service delivery</li> <li>Insufficient # providers, case managers, social workers</li> </ul> | <ul> <li>Poverty</li> <li>Criminalization of drug use</li> <li>Stigma / Discrimination</li> </ul> | TRUCTURAL |



Hedical Clin



#### ...and Service integration / co-location addresses many of these barriers





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#### **Provider barriers**

- Knowledge (misconceptions about who to screen, progression risk and treatment)
- Perceptions (concerns about non-adherence, drug use, relapse, risk of re-infection)
- Overburdened with dealing with competing health issues (primary care)

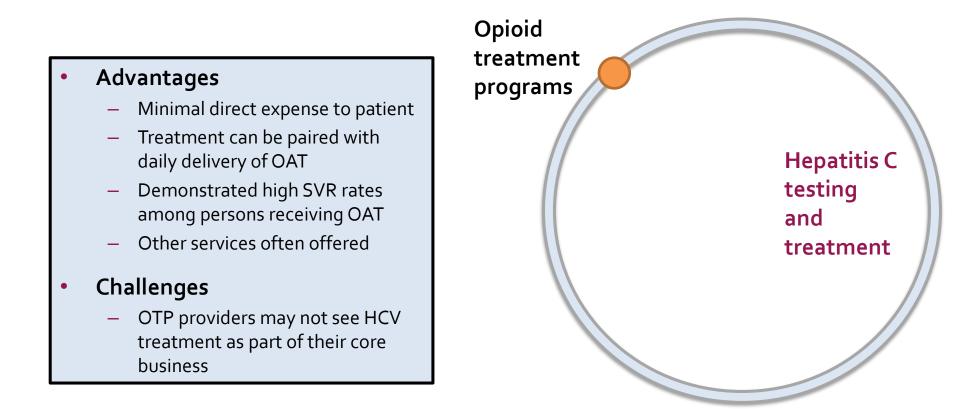
#### **General barriers**

- General health care access ( primary care provider, insurance, health literacy, patient provider-relationship)
- Competing health priorities (mental health, comorbidities)
- Stability factors (substance use, employment, income housing, drug treatment, social support)

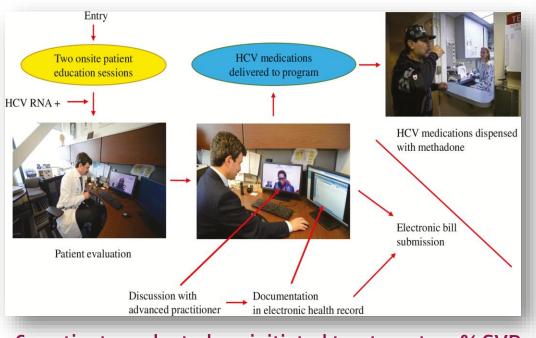
#### HCV-specific barriers

- Poor knowledge
- Lack of symptoms
- Residual fears about treatment related to interferon

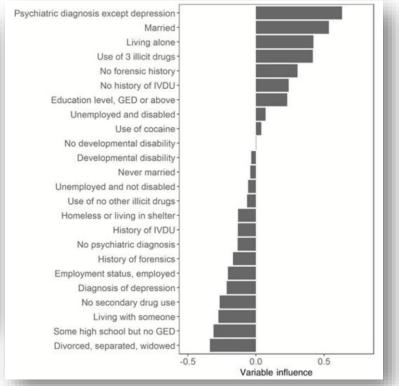
# Integrating / co-locating services will be critical to optimal engagement in HCV care



# Integrated, co-located telemedicine-based HCV treatment for patients on methadone (New York)

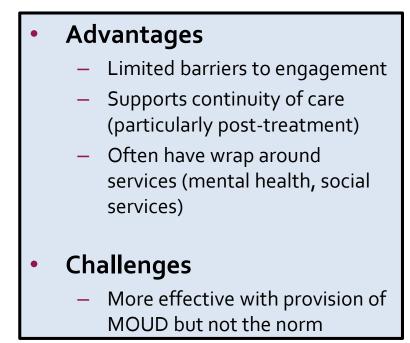


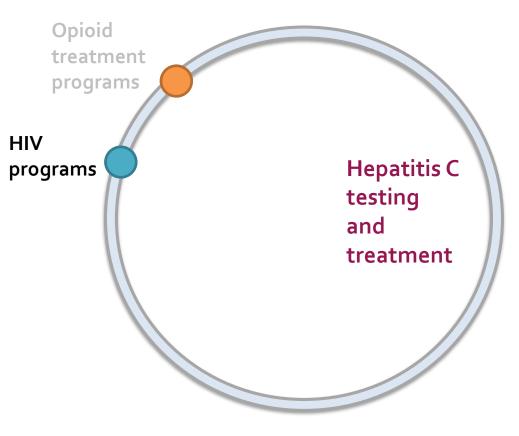
62 patients evaluated, 45 initiated treatment, 93% SVR



Talal AH et al Clin Infect Dise 2018

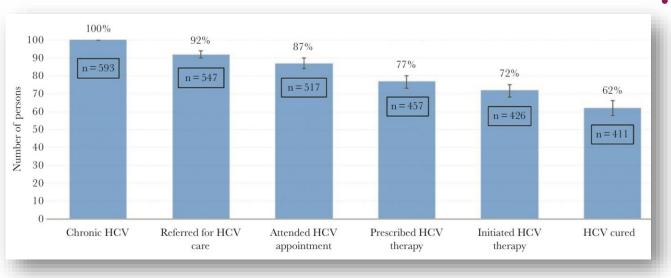
# Integrating / co-locating services will be critical to optimal engagement in HCV care





### Co-located HIV and HCV care (Baltimore, MD)

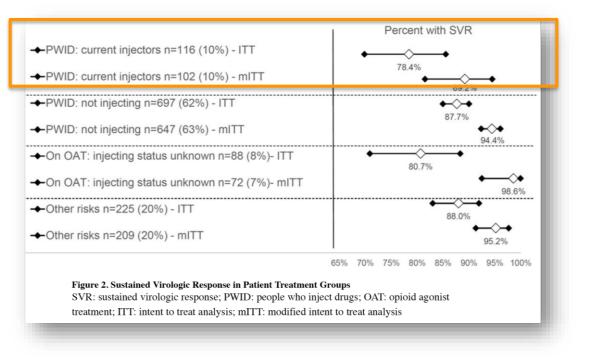
- <u>**Comprehensive care**</u> including testing, evaluation, treatment, pharmacy prior authorization, support for patient assistance
- Care delivered through <u>multidisciplinary team</u>: clinicians, nurses, social workers



- Stop light protocol for adherence support
  - Green: minimal
  - Yellow: moderate
  - Red: intensive support with mandatory nursing visit and follow-up calls/visit with nurse

Falade-Nwulia O et al Open Forum Infect Dis 2019

### Integration with community HIV programs (Ukraine)



 HCV treatment scaled up in 16 locations primarily through NGOs delivering HIV care/treatment

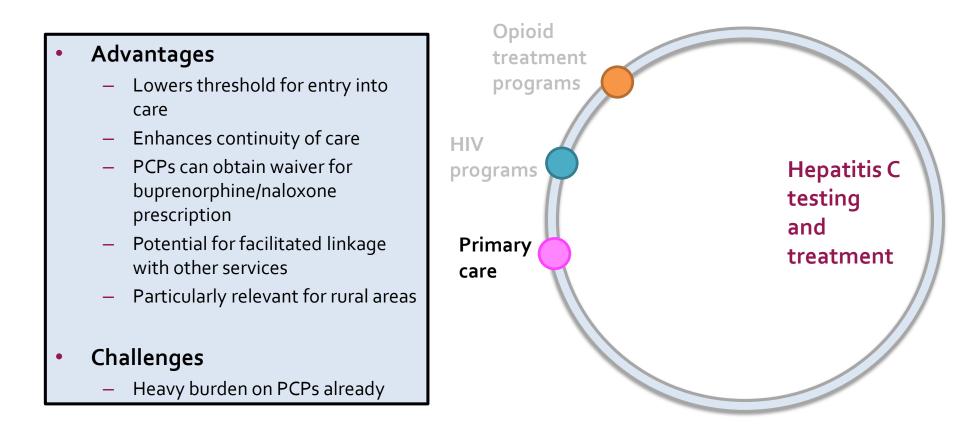
Community-based approach

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- Multidisciplinary team delivering care: physicians, nurses, social workers
- Program did not reach many active injectors

Mazhnaya et al Int J Drug Policy 2017

# Integrating / co-locating services will be critical to optimal engagement in HCV care



### Task shifting to primary care providers is effective

- Phase 4, prospective observational study in <u>federally qualified health</u> <u>centers</u> in Washington DC
- <u>Task-shifting</u> of DAA-based HCV therapy to <u>non-</u> <u>specialist</u> providers
- <u>Comparable SVR</u> among nonspecialist providers

|              | SVR  | Patients With SVR/  |                  |
|--------------|------|---------------------|------------------|
| Provider     | Rate | Total Patients, n/N | SVR Rate (95%CI) |
| <b>IPs</b>   |      | 1                   |                  |
| NP 1         | 0.77 | 33/43               |                  |
| NP 2         | 1.00 | 12/12               |                  |
| NP 3         | 0.80 | 4/5                 | — <del> </del> — |
| NP 4         | 1.00 | 30/30               |                  |
| NP 5         | 0.92 | 55/60               | +                |
| CPs          |      |                     |                  |
| PCP 1        | 0.75 | 24/32               | <u> </u>         |
| PCP 2        | 1.00 | 19/19               |                  |
| PCP 3        | 0.88 | 43/49               | +                |
| PCP 4        | 0.88 | 21/24               |                  |
| PCP 5        | 0.89 | 32/36               | -+               |
| pecialists   |      |                     |                  |
| Specialist 1 | 0.77 | 47/61               | +                |
| Specialist 2 | 0.85 | 50/59               | +-               |
| Specialist 3 | 0.89 | 34/38               | +-               |
| Specialist 4 | 0.76 | 13/17               | <u> </u>         |
| Specialist 5 | 0.94 | 35/37               | +                |
| Specialist 6 | 0.82 | 64/78               | +                |

NP = nurse practitioner; PCP = primary care physician; SVR = sustained virologic response.

Kattakuzhy S et al Ann Intern Med 2017

# Support for HCV treatment in primary care through telemedicine (Punjab, India)

- 94 PCPs trained, 4-hour workshop
- Telehealth consultation every 2 weeks
- WhatsApp group to solve case-based discussions in real time (hub and spoke model)

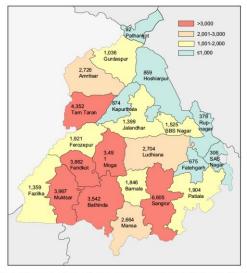
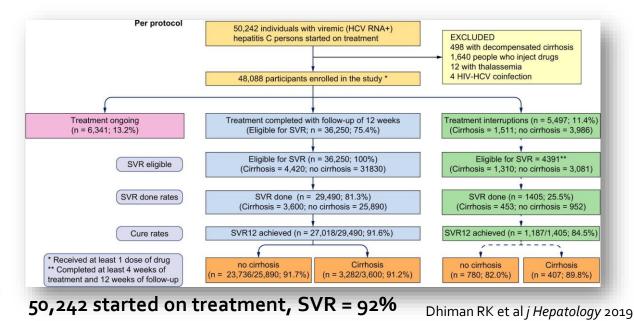


Fig. 1. Disease burden and cure rates across the 25 treatment sites in Punjab (This figure appears in colour on the web.)

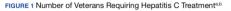


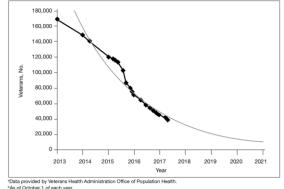
# Optimizing HCV treatment within primary care (US Veterans Affairs)

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| TABLE Increases | in | Rirth | Cohort | Teeting | and | SV/D12 | hv | ып |
|-----------------|----|-------|--------|---------|-----|--------|----|----|

|                           |          | 5       |          |         |          |         |          |
|---------------------------|----------|---------|----------|---------|----------|---------|----------|
|                           | FY 2014  | FY 2015 |          | FY 2016 |          | FY 2017 |          |
| Goals                     | Baseline | Goal    | Achieved | Goal    | Achieved | Goal    | Achieved |
| Birth cohort<br>tested, % | 65.8     | 69.0    | 68.8     | 73.0    | 73.9     | 80.0    | 80.1     |
| Tested for<br>SVR12, %    | n/a      | n/a     | 55.4     | 80.0    | 84.1     | 90.0    | 87.6     |

Abbreviations: FY, fiscal year; HIT, Hepatitis Innovation Team; SVR12, sustained virologic response 12 weeks after treatment. "Data are provided by Veteran Health Administration Population Health Services.

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Park A et al Federal Practitioner 2018

- Multidisciplinary Hepatitis Innovation
  Team (HIT): physicians, nurse practitioners, nurses, pharmacists, physician assistants, social workers, mental health and substance use providers, peer support specialists, administrators, information technology experts and systems redesign professionals
- Also created a Veterans Integrated Service Network (VISN) to **facilitate communication** and process improvement
- Lean process improvement framework focused on eliminating waste and maximizing value

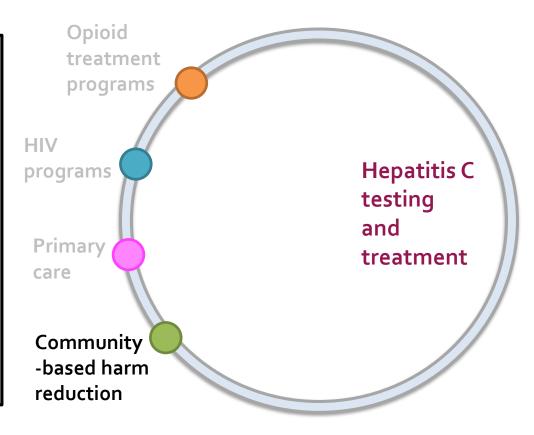
# Integrating / co-locating services will be critical to optimal engagement in HCV care

### Advantages

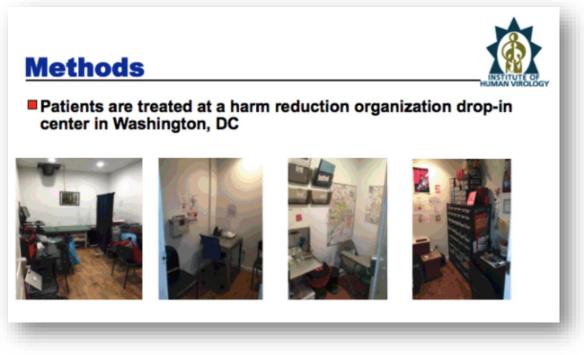
- SSPs reach those that may not be accessing care in the formal health care system
- Can serve as a 'one-stop shop' for health services including HCV and HIV care
- Provide linkage to MOUD

#### Challenges

 Most programs do not provide wrap around services



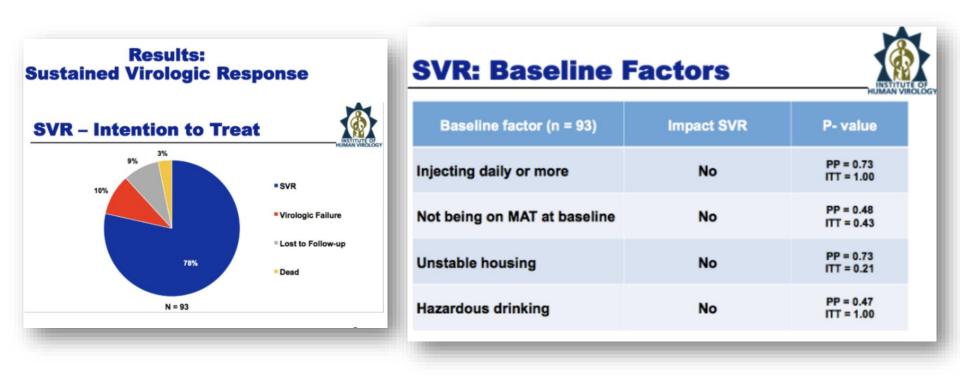
# HCV treatment integrated into community-based harm reduction center (Washington, DC)



- Patients with opioid use disorder who had injected in the prior 3 months
- Offered simultaneous buprenorphine, PrEP as needed
- Treated with 12 weeks of SOF/VEL
- Adherence assessments every 4 weeks

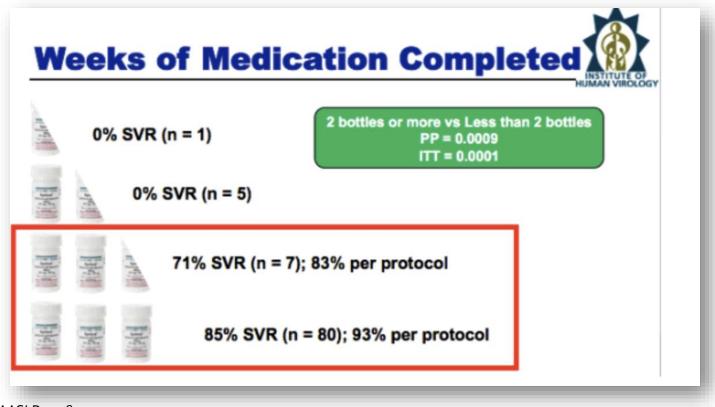
Kattakuzhy S et al AASLD 2018

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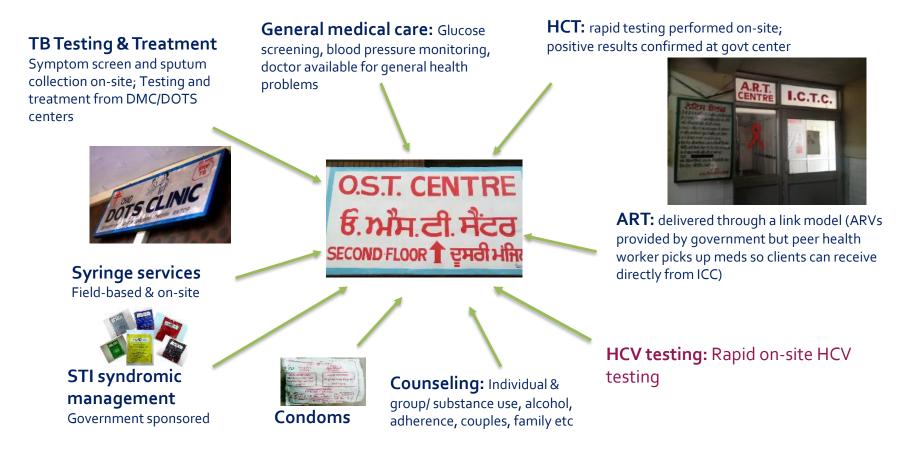
Kattakuzhy S et al AASLD 2018

## HCV treatment integrated into community-based harm reduction center (Washington, DC)



Kattakuzhy S et al AASLD 2018

# Integration of HCV testing with community-based OTP and other HIV prevention/ treatment services (India)



### Integrated care centers (ICCs) in India



OAT nurse (Imphal)



Counselor (Imphal)



General nurse (Imphal)



Clinical exam (Imphal)

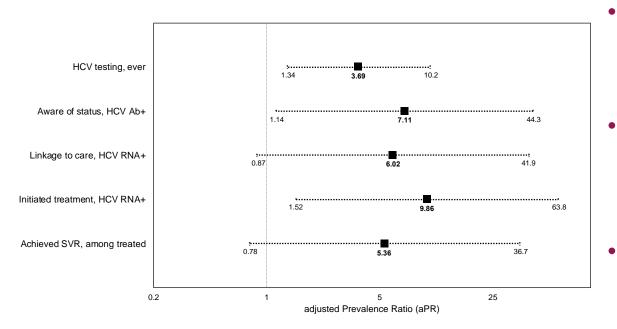


OAT clients (Ludhiana)



OAT Nurse (Ludhiana)

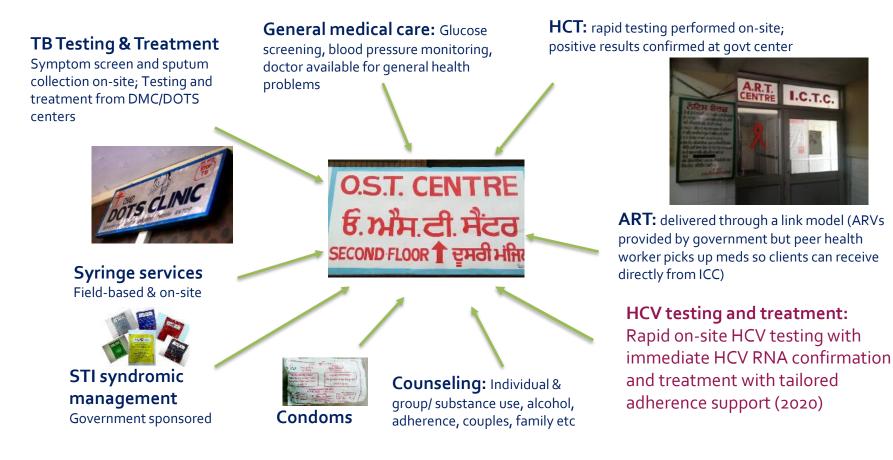
# Integration of HCV testing improves 1<sup>st</sup> step of the care continuum (awareness)



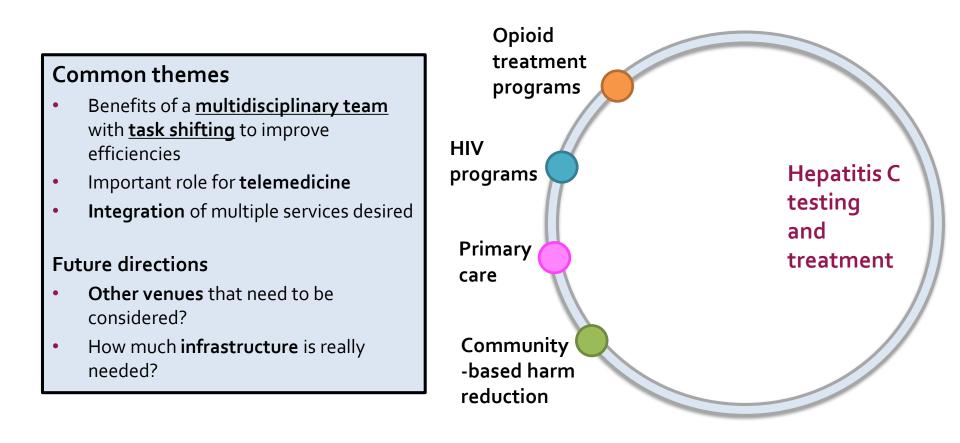
- Significant impact on community HCV testing and awareness
- Modest impact on linkage to HCV care, treatment uptake, cure
- Need on-site HCV
   treatment, other
   strategies (peers,
   incentives) for linkage

Solomon SS et al J Hepatology 2019

# Integration of HCV testing with community-based OTP and other HIV prevention/ treatment services (India)



# Integrating / co-locating services will be critical to optimal engagement in HCV care



#### If you build it, will they come? Is integration alone enough???





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#### **Provider barriers**

- Knowledge (misconceptions about who to screen, progression risk and treatment)
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#### **General barriers**

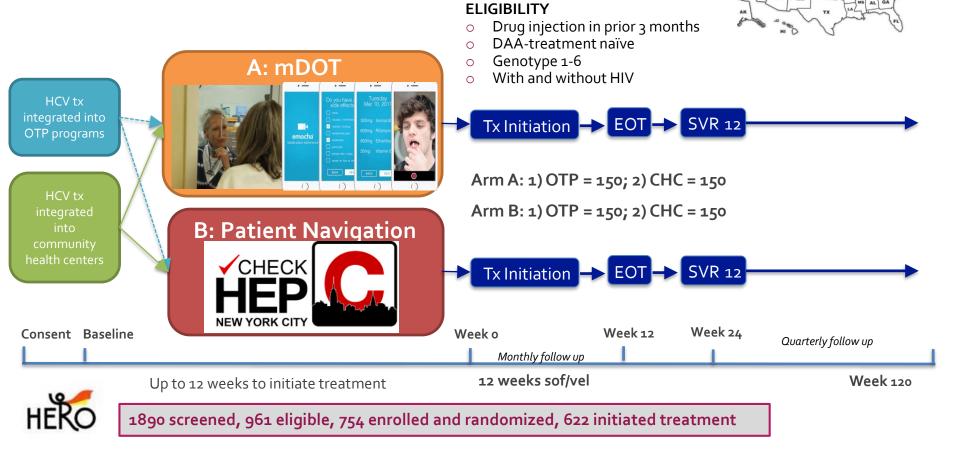
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- Poor knowledge
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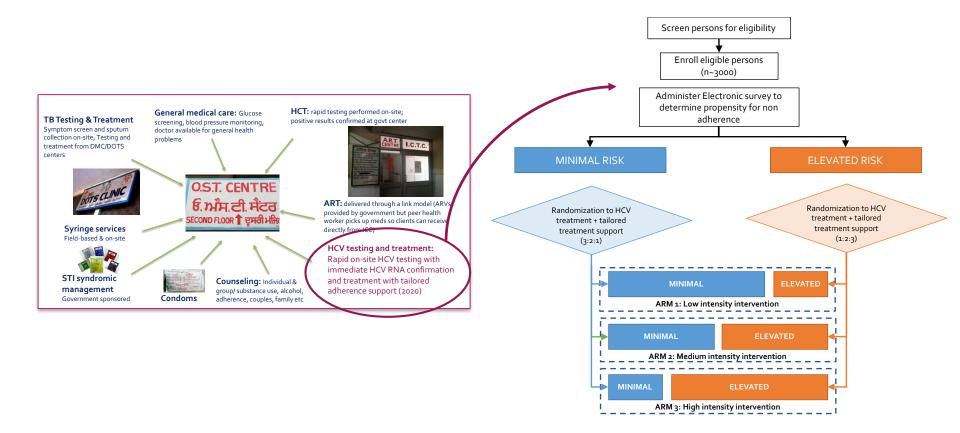
INDIVIDUAL

### Should additional support be provided?

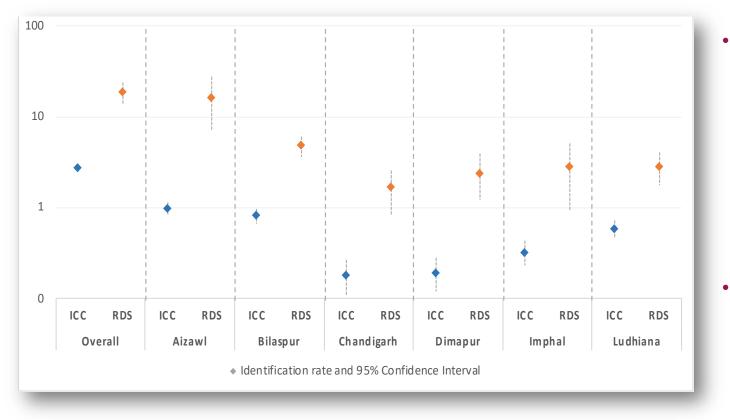


### Can we tailor support to individual need?

Maximize impact, promote efficiency



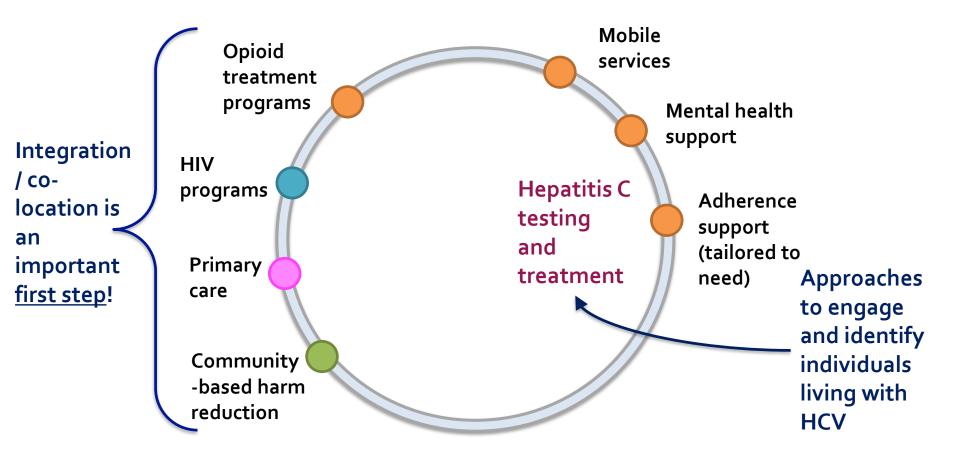
## Will integrated care approaches reach the populations we need to reach?



- Network-based referral strategy (<) () with modest compensation <u>more</u> <u>efficient</u> at identifying PWID unaware of status than integrated care strategy (<) ()
- Highest risk, disengaged PWID more often reached by network-based strategy

McFall AM et al IAS 2018

### **Combination approaches will be needed**



### Acknowledgements

- Johns Hopkins University
  - Sunil Solomon, Greg Lucas, David Celentano, Mark Sulkowski, David Thomas, Allison McFall, Seun Falade- Nwulia
- YR Gaitonde Centre for AIDS Research and Education
  - Aylur K Srikrishnan, S Anand, CK Vasudevan, Pradeep Amrose
- HERO Study team
- National AIDS Control Organisation, India
- Funding sources:
  - NIDA, NIAID (National Institutes of Health)
  - Elton Johns AIDS Foundation
- Study staff and participants

### **Rachael Edwards**

Rachael Edwards has spent the last 13 years working exclusively with vulnerable and marginalized populations through the Harm Reduction lens. She has extensive experience in program development, clinical teaching, and community engagement. She was integral in the development and implementation of end-of-life care programming for vulnerable populations through the Calgary Allied Mobile Palliative Program (CAMPP).

Rachael is a tireless advocate for low-threshold service provision, in the hopes of eliminating barriers for people who traditionally experience difficulty accessing health and social care. Through her six-year employment at the CUPS Liver Clinic, Rachael specialized in advocacy, education, screening, counselling and treatment of hepatitis C—this experience culminated in Rachael developing a strategic model for onsite and outreach liver clinics. Reducing barriers to access and engagement through integration Calgary AB

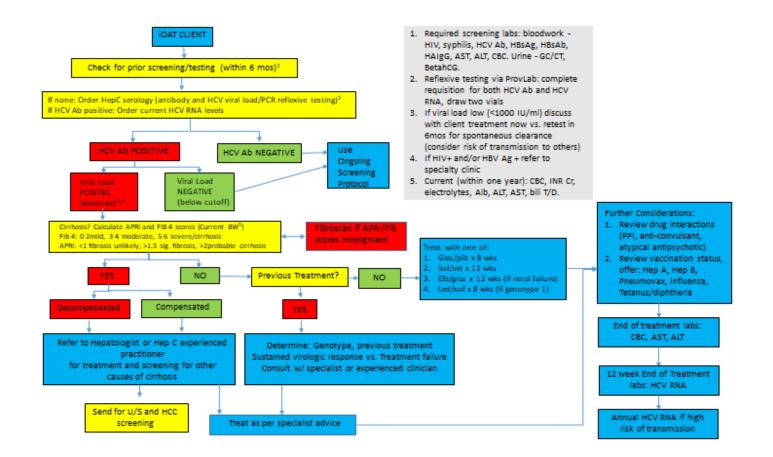


Rachael Edwards, RN BN Hailey Mawer, RN BScN

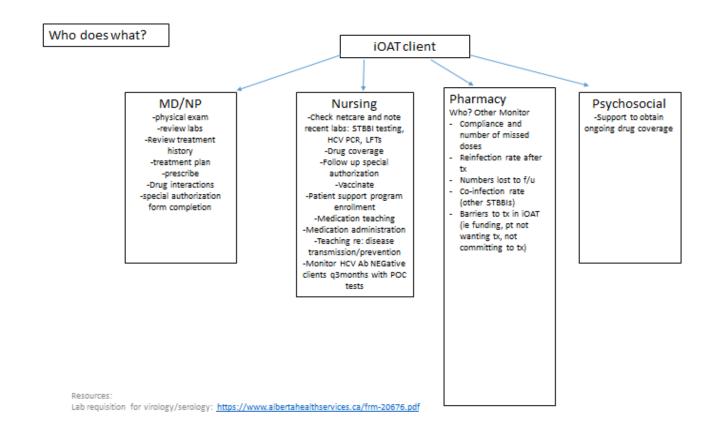




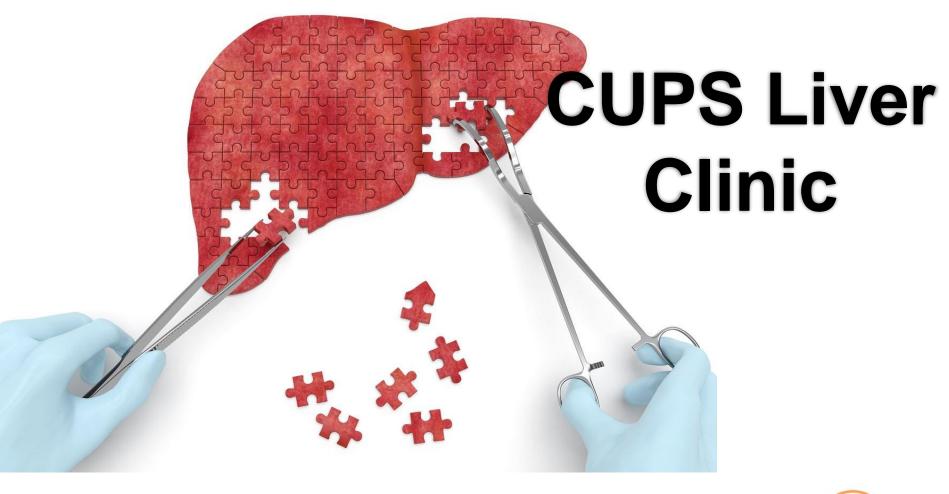














# Supervised Consumption service (SCS)

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Safeworks – Calgary, AB

Supervised consumption services are a place where people can **use substances in a safe, hygienic environment** to reduce harm from substance use while offering additional services such as **STBBI testing including HIV and Hepatitis C** from select RNs



Treatment is more than just medication

"Management and care of a person [during] the

combating of disease or disorder"

Dorland's Medical Dictionary



# Opportunities for improving access

Engage with people where they are accessing care





#### info@westsideharmreduction.com





#### **Matthew Bonn**

Matthew Bonn is a Harm Reduction Advocate & Consultant. He is a member of the Halifax Area Network of Drug Using People (HANDUP) & Lead Peer with Peers Assisting & Lending Support (PALS). He is one of many of the co-Founders of the HaliFIX Overdose Prevention Society, which has implemented Atlantic Canada's first Overdose Prevention Site.

Matthew has lived experience with IV substance use, long term dependency on OAT, treatment for hepatitis C and being an ex-offender. He recently became a National Board member of the Canadian Students for Sensible Drug Policy.

## PEER LED HCV ELIMINATION

By Matthew Bonn



FB: HANDUPhalifax Twitter: @HANDUPhfx IG: @HANDUPhfx



FB: HaliFIX902 Twitter: @halifix902 IG: @halifix902



FB: Mainline Needle Exchange Twitter: @needleexchange2 IG: @mainlineneedleexchange902



OUR SERVICES ARE LOCATED IN MI'KMA'KI, THE ANCESTRAL AND UNCEDED TERRITORY OF THE MI'KMAQ.

## Local Context

In Nova Scotia there are approximately 60 Overdose related deaths each year, 300 new diagnoses of HCV & our HIV rates doubled from 2017-2018 reaching a confirmed 29 new diagnoses in 2018 up from 15 the year before.

In the Central Halifax Zone we have two Needle Exchange Services *Mainline Needle Exchange* has two locations, one in Halifax (1992) & one in Dartmouth (2019). There is two Needle Exchanges in the rest of Nova Scotia, *Northern Healthy Connections Society* in Truro & *The Ally Centre of Cape Breton in Sydney, Cape Breton.* 

There is one Overdose Prevention Site in all of Atlantic Canada, *HaliFIX Overdose Prevention Society* has a 'Urgent Public Health Need Site' in the North End of Halifax.

### Reducing Barriers to Access and Engagement in Hepatitis C Care through Integration in Halifax Nova Scotia

Direction 180 is a community-based, opioid treatment program located in the North End of Halifax, Nova Scotia. This non-profit organization has been running since 2001 as a program of the Mi'kmaw Native Friendship Center...

Direction 180 is the home of the HANDUP, PALS & the OPS.





























#### Peers Assisting & Lending Support Mission

To reduce risky behaviors that could lead to HIV/HCV for 75-100 former or current substance users leaving CNSCF by up to 25%

By Providing:

Harm Reduction Supplies Condoms/Lubrication Naloxone Hygiene Products

Additional Support includes Housing Referrals, Emergency Food Support, NS Government Identification, etc.















## Peer Led POCT Events

Six Monthly Events starting in January

Led by HANDUP members

Engage 10 Guests at the OPS to be Tested

Focus Group with participants with Healthy Snacks

Creating a Concept Paper "For Users by Users" on HCV Elimination

### **Local Hepatitis C Services**

#### The Hepatitis Outreach Society of NS

HepNS is a charitable organization that reduces the impact of hepatitis through support, information and education. They have a "Travel Program" that will help get you to appointments related to Hepatitis C.

#### Hep C Program w/Dr. Lisa Barrett

This program has a 'Self-Referral' Line which allows patients to call directly to set up an appointment. The number is (902) 473-5594.



#### "Nothing About Us Without Us"

Greater, Meaningful Involvement of People Who Use Illegal Drugs: A Public Health, Ethical, and Human Rights Imperative

#### Canadian Réseau HIV/AIDS juridique (egg) conadien Network VIH/sida

## Thank you!

## **Matthew Bonn**

Twitter: @m\_bonnxx IG: @mb0nnxx FB: Matt Bonn

#### **Audience questions?**

Please type your question or comment into the chat box.

## Thank you

Please complete the webinar evaluation that will be provided following this webinar.

PRESENTED BY

Amanda Giacomazzo, Moderator Dr. Shruti Mehta **Rachael Edwards** Matthew Bonn

December 5<sup>th</sup>, 2019

