

# Building Provider <u>Capacity for HCV</u> <u>Prevention Program</u> Integration

**Prevention & Education - Undx** 





# <u>Introductions</u>

- Caring Ambassadors Program
- Jill Wolf, LCSW Hepatitis C Program Director
- Co-created with Chicago Recovery Alliance (CRA) and adapted from a training conducted in October 2019

We are grateful to Abbvie and Gilead for their support of this training and education program. We are also thankful to the Chicago Department of Public Health by way of the Centers for Disease Control for supporting us with seed money that contributed to the initial curriculum development.







# In honor of Dan Bigg

- Executive Director of Chicago Recovery Alliance for 25 years
- Created system for Syringe Service Program access and Naloxone Distribution
- Awarded The Norman E. Zinberg Award for Achievement in the Field of Medicine
- Fierce HCV Elimination Advocate
- Awarded 2017 Chicagoan of the Year
- Known as the 'Godfather of Naloxone'



Photo Credit: Nigel Brunsdon

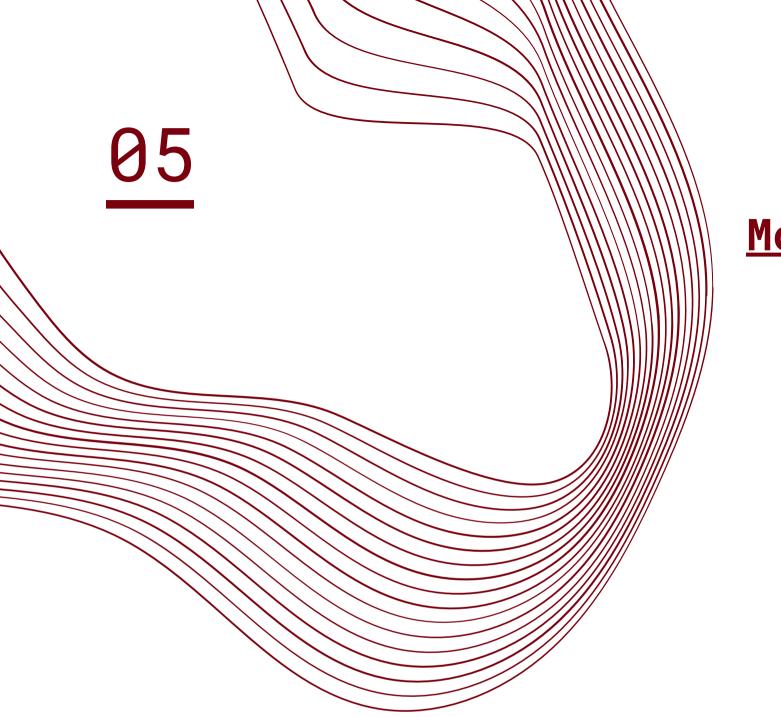


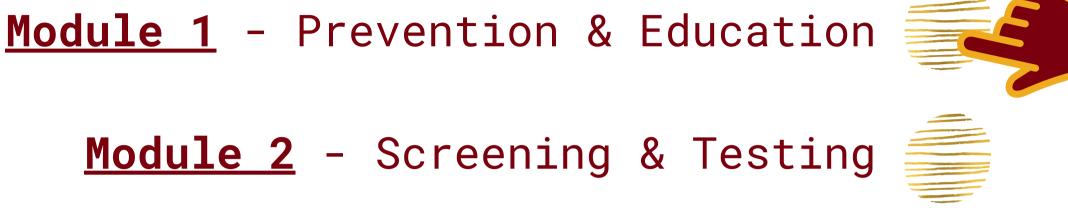
# <u>04</u> Overall Project Goal

To build the capacity, confidence, and knowledge to integrate responsive hepatitis C (HCV) screening, testing, linkage-to-care/cure, and support programs into existing infrastructures.









BIGG ELIMINATION TRIBUTE PROJECT | MODULE 1

# Modules

- <u>Module 2</u> Screening & Testing
  - Module 3 Vaccination
    - Module 4 Staging
    - Module 5 Treatment
      - Module 6 Cure
  - <u>Module 7</u> Wellness & Support











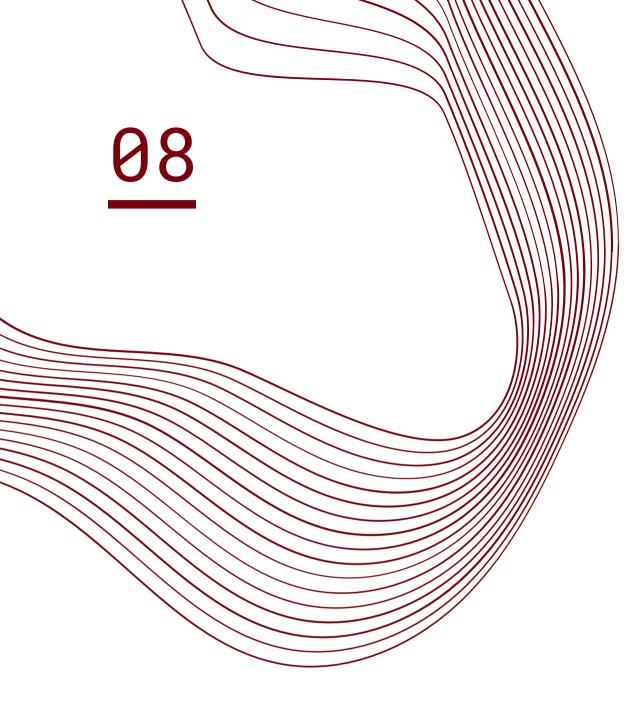
# Nothing about us without us



# <u>BIG ELIMINATION TRIBUTE PROJECT | MODULE 1</u> <u>HCV Prevention &</u> <u>Education</u>

The purpose of this module is to establish a replicable framework for HCV prevention and education programs including risk/harm reduction strategies





### <u>Prevention & Education Objectives</u>

### Participants will be able to:

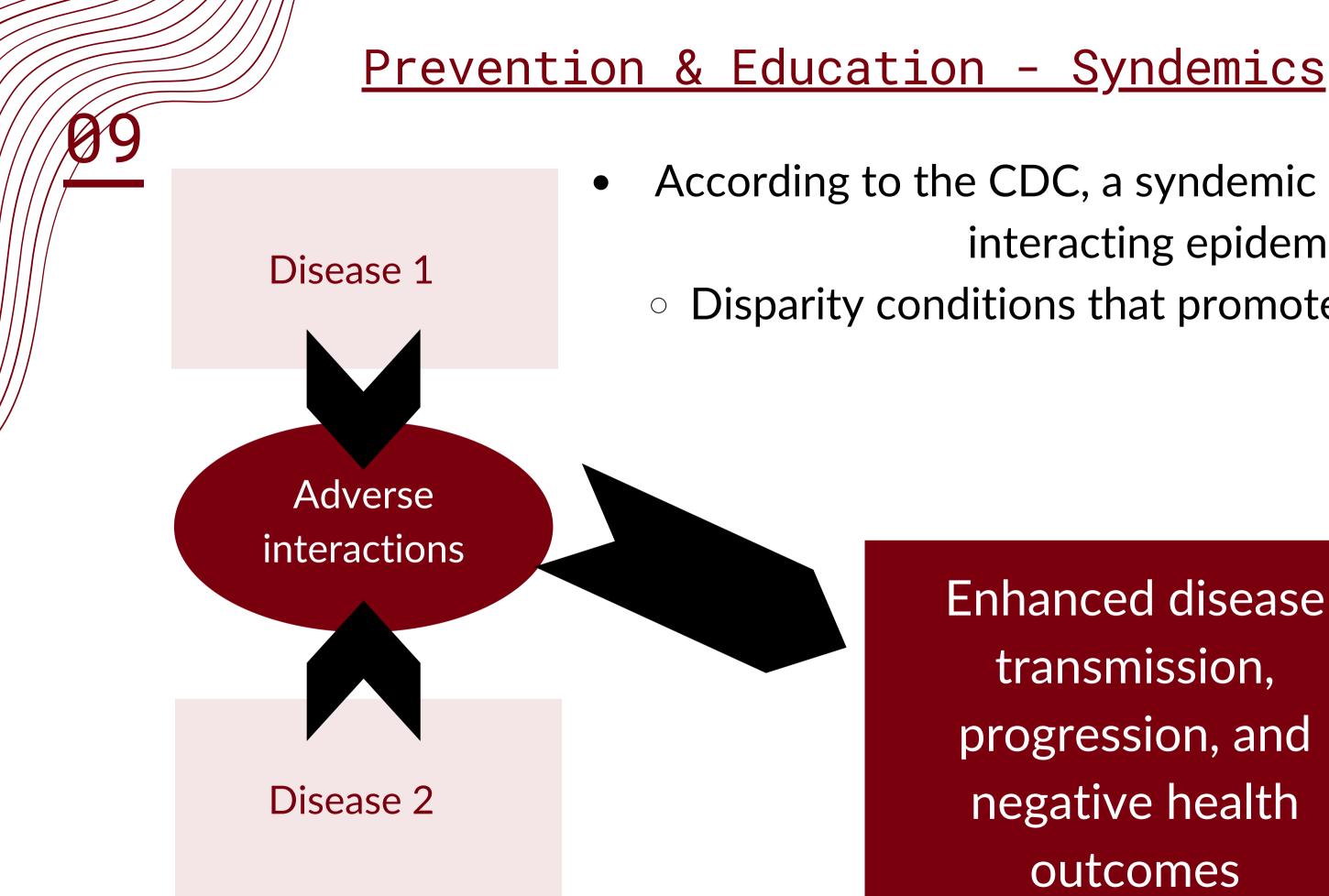
- opioids
- hepatitis A, B, C, and HIV
- Describe the impact of HCV including mortality, prevalence, and surveillance
- services
- List programmatic action steps to address HCV reduction strategies

• Define 'syndemic' and its relationship to HCV and

• Interpret the similarities & differences between

• Identify opportunities to leverage existing tools, resources, and programs to include HCV prevention

• Develop an action plan to amend current programs & services to include HCV prevention programming prevention and drug-using behaviors using harm



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- According to the CDC, a syndemic is a synergistically interacting epidemic
- Disparity conditions that promote disease clustering

Enhanced disease transmission, progression, and negative health outcomes





### Prevention & Education <u>Syndemics Example - HAV</u>

Homelessness Adverse interactions Access to HAV vaccine; and Unsanitary condition

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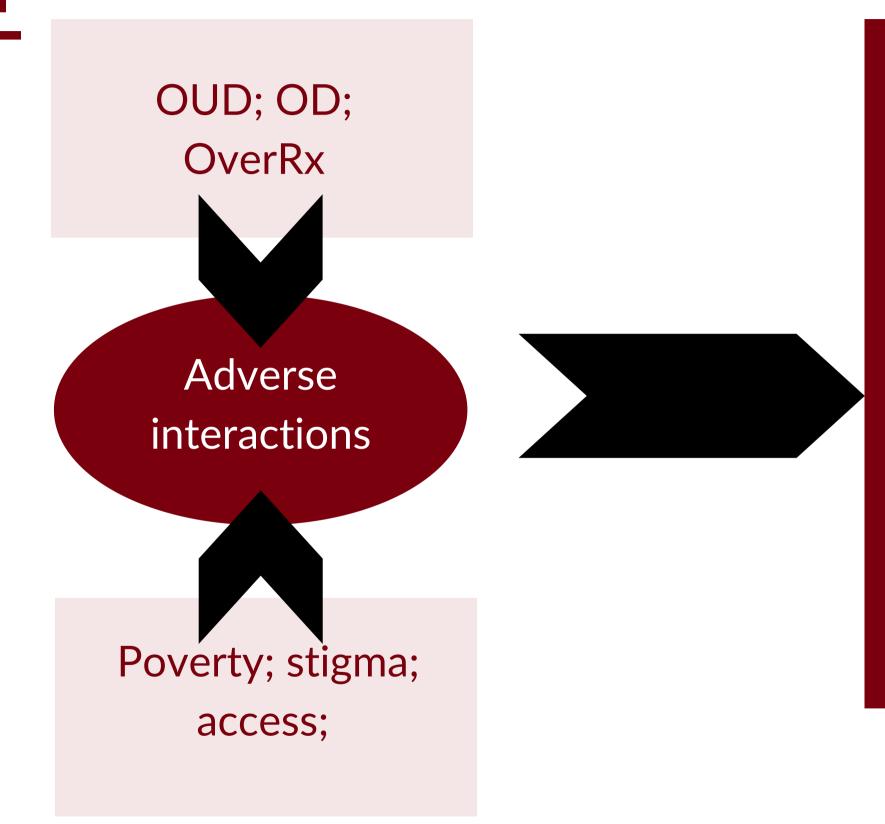


### Hepatitis A Outbreak "The cost of a single HAV outbreak (250 sick people) can be upwards of \$1.9 million - including lost revenue, lawsuits, legal fees, fines, and medical costs

https://www.bioiq.com/curb-costly-outbreaks-hepatitis-avaccination/



### Prevention & Education -<u>Syndemics Example - KY</u>



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## The rise in HCV among women of childbearing age: National Stats - 22% • KY Stats - 213% The rise in proportion of babies born to women with HCV: National Stats - 68% • KY Stats - 124%





Opana - OUD; OD; OverRx

Adverse interactions



- 92% co-infected HIV/HCV
- Indiana spent \$16M+ through August 2015 to stop the outbreak in 1 county!

Poverty; stigma; access; war on drugs; transportation

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## **Scott County, IN**

- 11 confirmed HIV cases
  - sparked an investigation
- Identified 215 HIV+ w/in
  - 4200 person county





### <u>Prevention & Education - Hepatitis</u>

## **Hepatitis = liver inflammation**

HCV

Toxins, meds, alcohol

HAV HBV Good vaccine-preventable

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HDV

HEV





### <u>Prevention & Education - Hepatitis ABC's</u>

	HAV	HBV	HCV
Transmission	Fecal/Oral	Blood & Body Fluid	Blood
% develop chronic infection	0%	6-10%	75-85%
Immunity after infection?	Yes	Yes	No
Vaccine?	Yes	Yes	No
Cure?	Yes/self-limiting	No	Yes





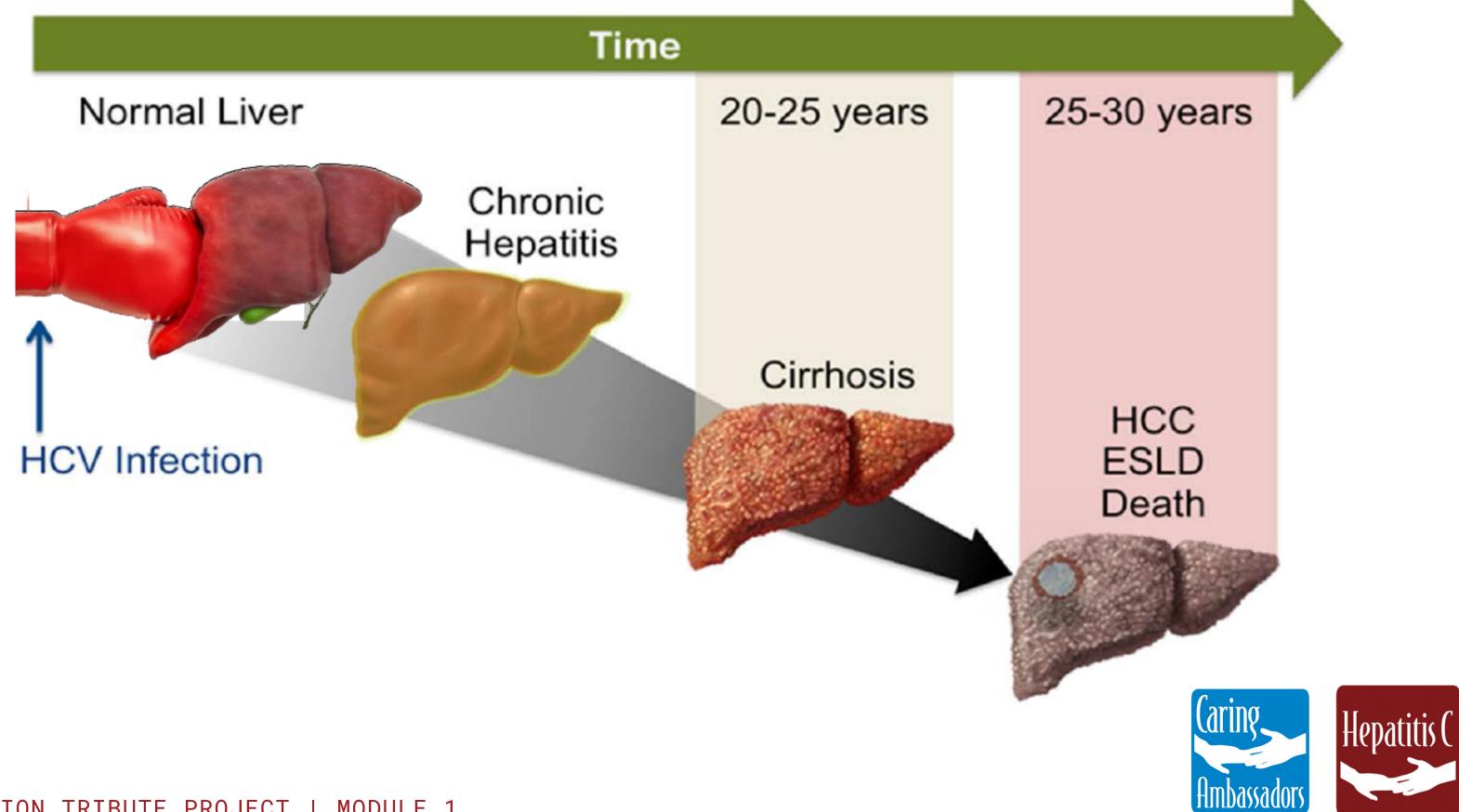
### <u>Prevention & Education - What is hepatitis C?</u>

## 15

- A blood-borne virus that affects the liver
- Largest, chronic infectious disease outbreak of our time
- Most don't know they're HCV+; there are few symptoms
- Easy, inexpensive diagnostic tests can identify HCV
- Over time, HCV causes liver damage and cancer
- Liver Cancer is on the rise
- There is a cure for HCV



### <u>Prevention & Education - HCV Over Time</u>



### <u>Prevention & Education - Who has HCV?</u>

### **Baby Boomers Born between 1945-1965**

- Likely living with HCV for decades
- Possibly advanced fibrosis or cirrhosis
- Liver cancer risk prevention
- Old treatment may not have worked or was REALLY hard
  - May be unaware that current treatment is different
- Was told one of the following things from Dr:
  - You're not sick enough
  - You're not sober enough



- Increased transmission in PWUD • Impact on women of child-
- bearing age
- Relationship to opioids/heroin and SUDs
- Provider bias for diagnosis and testing
- Prevention

### Young(er) Folks 18-39 Years 01d



### Prevention & Education - Compare HIV and HCV

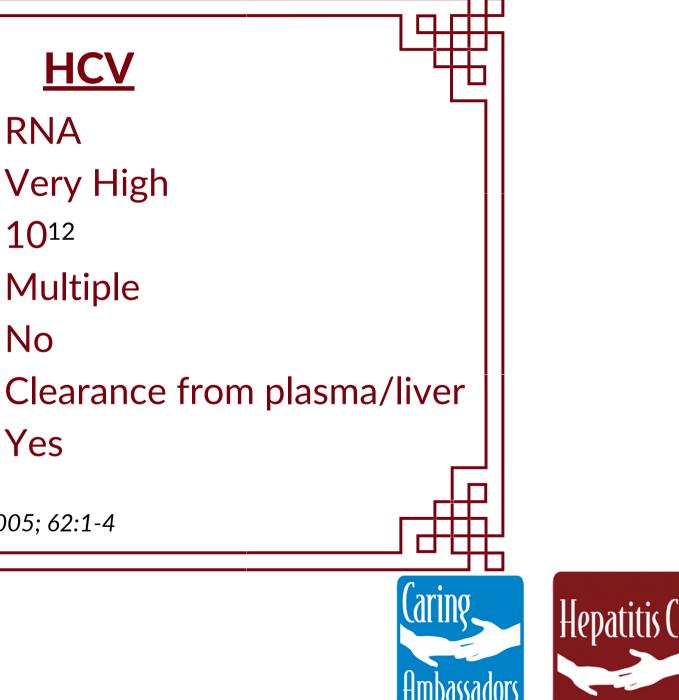
### **Comparative Viral Dynamic Features of HIV and HCV**

### Unlike HIV infection, HCV infection can be eradicated

Genome Mutation Rate Virions per day Drug Targets Genetic Archives Therapeutic Goal Cure

HIV	
RNA	I
Very High	١
<b>10</b> <sup>10</sup>	•
Multiple	I
Yes	I
Lifelong Suppression	(
No	`

Adapted from Soriano V, et al. J Antimicrob Chemother, 2005; 62:1-4



### <u>Prevention & Education - Virulence</u>

In one drop of blood with HBV, HCV, and HIV

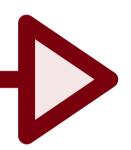
Beltrami, E. et al. Clini Microbiol ev. 2000 July; 13 (3):385-407

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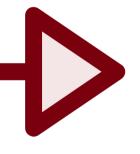
HBV

HCV

HIV



30% chance of transmission

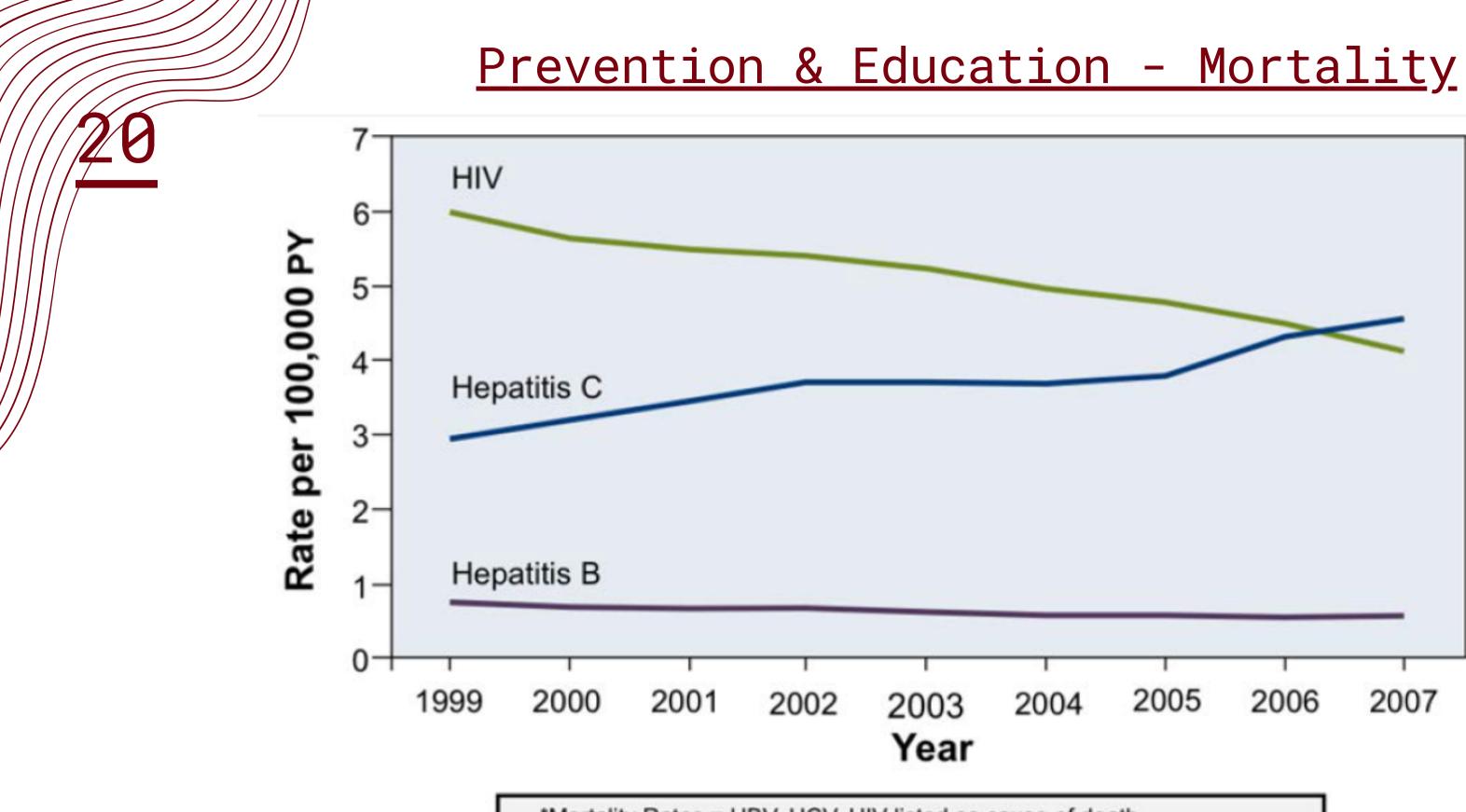


1.8% chance of transmission



0.03% chance of transmission





\*Mortality Rates = HBV, HCV, HIV listed as cause of death Because of decedent can have multiple causes of death, a record listing more than 1 type of infection was counted for each type of infection

Source: Ly, KN., Xing, J., Levens, RM., Juiles, RB., Ward, JW., Holmberg, SD. The Increasing burden of mortality from viral hepatitis in the US between 1999 and 2007. Ann Intern Med



### <u> Prevention & Education - 2018 List - Notifiable Cond.</u>

### Anthrax

Arboviral diseases, neuroinvasive and nonneuroinvasive

California serogroup virus diseases

Chikungunya virus disease

Eastern equine encephalitis virus disease

Powassan virus disease

St. Louis encephalitis virus disease

West Nile virus disease

Western equine encephalitis virus disease Babesiosis

Botulism

Brucellosis

Campylobacteriosis

Cancer

Carbapenemase Producing Carbapenem-

Resistant Enterobacteriaceae (CP-CRE)

Carbon monoxide poisoning

Chancroid

Chlamydia trachomatis infection

Cholera

Coccidioidomycosis

Congenital syphilis

Syphilitic stillbirth Cryptosporidiosis

Cyclosporiasis

Dengue virus infections

Severe dengue

Diphtheria

Ehrlichiosis and anaplasmosis

Anaplasma phagocytophilum infection

Ehrlichia chaffeensis infection

Ehrlichia ewingii infection

Undetermined human

ehrlichiosis/anaplasmosis

Foodborne Disease Outbreak

Giardiasis

Gonorrhea

- Haemophilus influenzae, invasive disease
- Hansen's disease
- Hantavirus infection, non-Hantavirus pulmonary syndrome
- Hantavirus pulmonary syndrome
- Hemolytic uremic syndrome, postdiarrheal
- Hepatitis A, acute
- Hepatitis B, acute
- Hepatitis B, chronic
- Hepatitis B, perinatal virus infection
- Hepatitis C, acute
- Hepatitis C, chronic
- Hepatitis C, perinatal infection
- HIV infection (AIDS has been reclassified as HIV Stage III)
- Influenza-associated pediatric mortality
- Invasive pneumococcal disease
- Latent TB Infection (TB Infection)
- Lead, elevated blood levels
- Legionellosis
- Leptospirosis
  - Listeriosis
- Lyme disease
- Malaria
- Measles
- Meningococcal disease
- Mumps
- Novel influenza A virus infections
- Pertussis
- Pesticide-related illness and injury, acute
- Plague
- Poliomyelitis, paralytic
- Poliovirus infection, nonparalytic
- Psittacosis
- Q fever
  - Rabies, animal
- Rabies, human

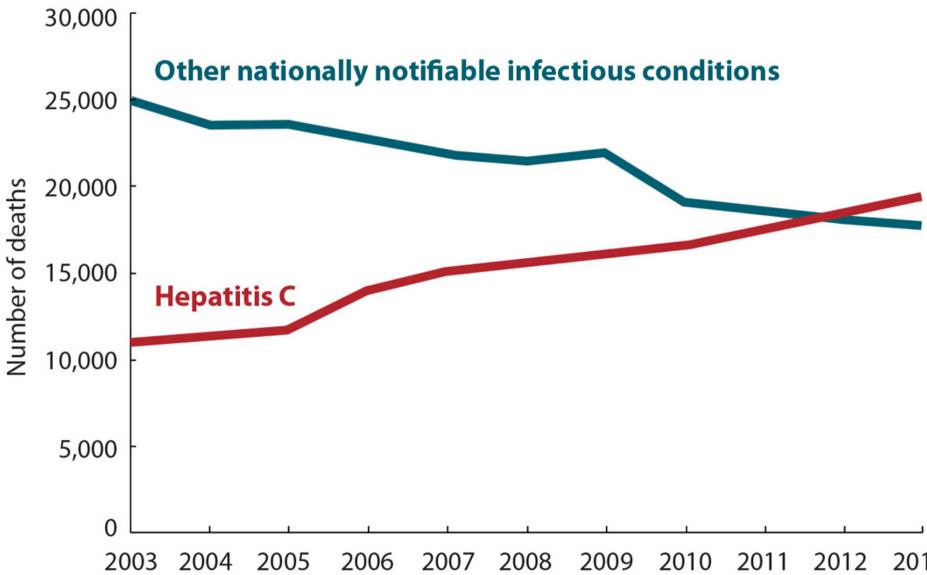
- Rubella
- Rubella, congenital syndrome
- Salmonellosis
- Severe acute respiratory syndromeassociated coronavirus disease
- Shiga toxin-producing Escherichia coli
- Shigellosis
- Silicosis
- Smallpox
- Spotted fever rickettsiosis
- Streptococcal toxic shock syndrome
- Syphilis
- Tetanus
- Toxic shock syndrome (other than streptococcal)
- Trichinellosis
- Tuberculosis
- Tularemia
- Typhoid fever
- Vancomycin-intermediate Staphylococcus aureus and Vancomycinresistant Staphylococcus aureus
- Varicella
- Varicella deaths
- Vibriosis
- Viral hemorrhagic fever
- Crimean-Congo hemorrhagic fever virus
- Ebola virus
- Lassa virus
- Lujo virus
- Marburg virus
- New World arenavirus Guanarito virus
- New World arenavirus Junin virus
- New World arenavirus Machupo virus
- New World arenavirus Sabia virus
- Waterborne Disease Outbreak
- Yellow fever
- Zika virus disease and Zika virus infection





### <u> Prevention & Education – Rising Mortality – 2003–2013</u>

Annual number of hepatitis C-related deaths vs. other nationally notifiable infectious conditions in the US, 2003-2013



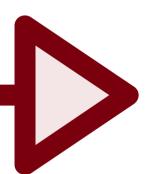
Source: Centers for Disease Control and Prevention

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2012 2013



## PREVENTION & EDUCATION - CONTINUUM & CASCADES 23 Continuum vs. Cascades VS. **HCV Cure Cascade** Well UnDx Treat Cure Dx Stage





### PREVENTION & EDUCATION - WHAT IS HARM REDUCTION?

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## PREVENTION & EDUCATION - WHAT IS HARM REDUCTION?

- 25
  - 1. Any positive change
  - 2. "Nothing about us without us"
  - 3. Relationship at the center of harm reduction a. Promotes relationship building with trust at the center b. Client's priorities are more important than providers' c. Providers do not dictate care
  - 4. Conscious, 'person-first' language a.non-stigmatizing & non-condemning b. PEOPLE who use drugs; PERSON who once used heroin
  - 5. Education and Empowerment
    - a. Provide information to help people make informed decisions b. People use drugs; help them do so as safely/informed as possible
  - 6. Promotes quality of life & provides a buffet of options







### PREVENTION & EDUCATION -THE LANGUAGE & ESSENCE OF HARM REDUCTION

### 1. Removal or replacement of judgmental, value-based language

- a. User/Abuser vs. person who uses drugs (PWUD)
- b. Substance Use Management vs. Substance Use Disorder
- c. Management vs. Abstinence 'what does recovery look like for you?'
- 2. Safe & Safer Practices

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- 3. Positive Reinforcement
  - a. "I am glad you came in today; How can I support you?"
- 4. Choose your language and avoid assumptions
  - a.use words that people understand
  - b. demonstrations are powerful
  - c.ask people to explain versus assuming you understand
  - d.avoid using 'junkie' when referring to PWUD even though your client may refer to themselves that way





## <u>Prevention & Education -</u> <u>Harm Reduction Buffet</u>

Harm Reduction (HR) uses a 'buffet-style' versus a one-size fits all approach. 'The essence of HR is not to have set of expectations, but to facilitate any number of positive changes in any other order, prioritized by the participant. People choose what they want, and it isn't about progression - just mutual respect, relationship-building, and choice of any positive change.' - Dr. Suzanne Carlberg-Racich

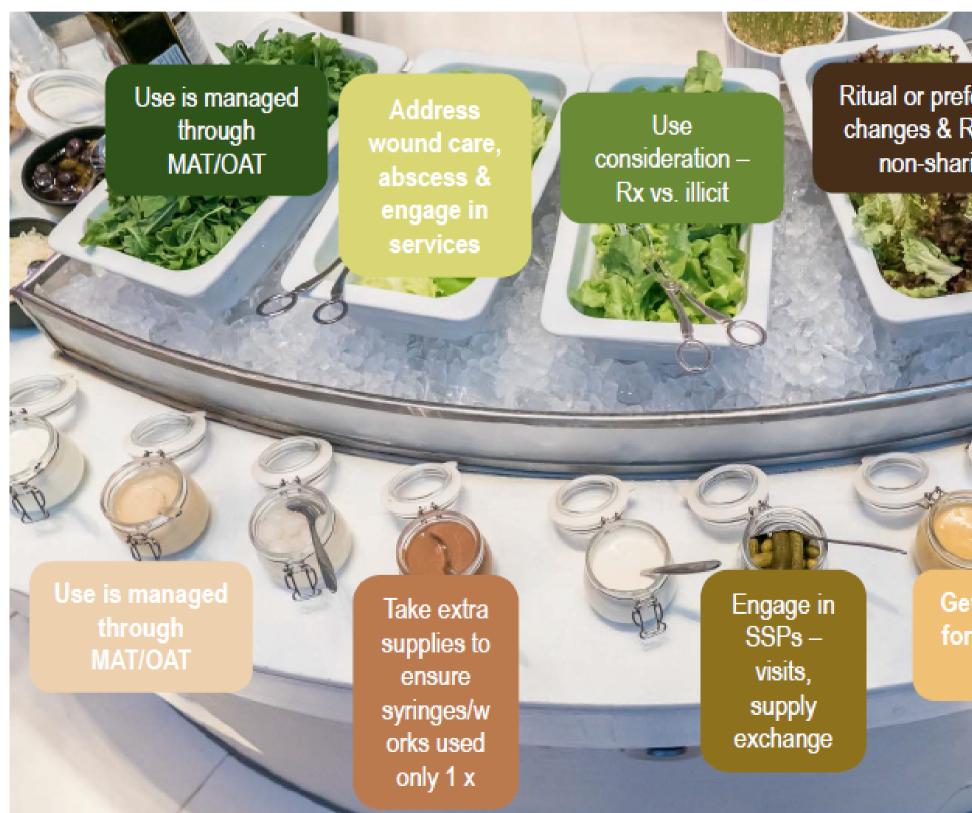




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## Prevention & Education -Harm Reduction Buffet



Ritual or preference changes & Radical non-sharing

**Ritual or** preference changes & Radical nonsharing

> Use Condoms

Get tested for HCV & HIV





### PREVENTION & EDUCATION COMMON MISCONCEPTIONS OF HARM REDUCTION

1. Lack Boundaries

a. Often there is a misconception that harm reduction providers have no boundaries and have an 'anything goes' attitude

2. Harm Reduction encourages drug use

a. studies show that syringe service programs **do not** increase drug use

### 3. 'Drug users lie'

- a. System-level failure we've created systems where PWUD need to lie in order to survive, or risk losing housing, work, family, etc.
- b. Build trust and rapport over time so people can be sure they're not being condemned, judged, or stigmatized

4.MAT/OAT just replaces one drug with another drug

a. MAT gives a person their life (and brain) back so that they're not constantly working to fill their opioid receptors to avoid withdrawal

b. is this any different than insulin for a diabetic patient or antidepressants? BIGG ELIMINATION TRIBUTE PROJECT





### PREVENTION & EDUCATION -<u>TIP 63, EXHIBIT 1.2 - COMPARISONS OF</u> OUD **MEDICATIONS**

- 1. Medication-Assisted Treatment (MAT) & Opioid Agonist Therapy (OAT) a. As taken from the SAMHSA TIP 63 on benefits of MAT/OUT i. Reduces or eliminates withdrawal symptoms: **methadone**, **buprenorphine** ii. blunts or blocks the effects of illicit opioids: **methadone**, **naltrexone**, **buprenorphine** iii.reduces or eliminates cravings to use opioids: methadone, naltrexone, buprenorphine
  - a. MAT & OAT Impacts i. Reduction in fatal overdose and all-cause mortality (NOT Naltrexone)

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### PREVENTION & EDUCATION MORE THINGS TO KEEP IN MIND

- 1. Addiction vs. Dependence they're different!
  - a. babies are NOT born addicted to drugs!
- 2. The local story (in Chicago) is very different than the national story
- 3. Vein care & safer injection practices
- 4. Soap vs. alcohol pads vs. bleach (Heimer's Research)
- 5. Lotion & Lip Balm
- 6. 'Buddy system' & using in groups
- 7. Accountability if using alone call someone
- 8. Check & reflect on personal biases that may influence professional practices





### PREVENTION & EDUCATION WHAT'S CHANGED?

- 1. Syringe Service Program access CDC Vulnerability Assessment
- 2. Increase in HCV, overdose, and fatal overdose
- 3. Attitudes towards PWUD
  - a. increase in treatment options
  - b.acceptance of HR models
- 4. Attitudes of PWUD
  - a.less stigmatizing environments encourages people to 'come out'
  - b. Story sharing & peer support
- 5. Naloxone
- 6. Increased commercialization of Methadone

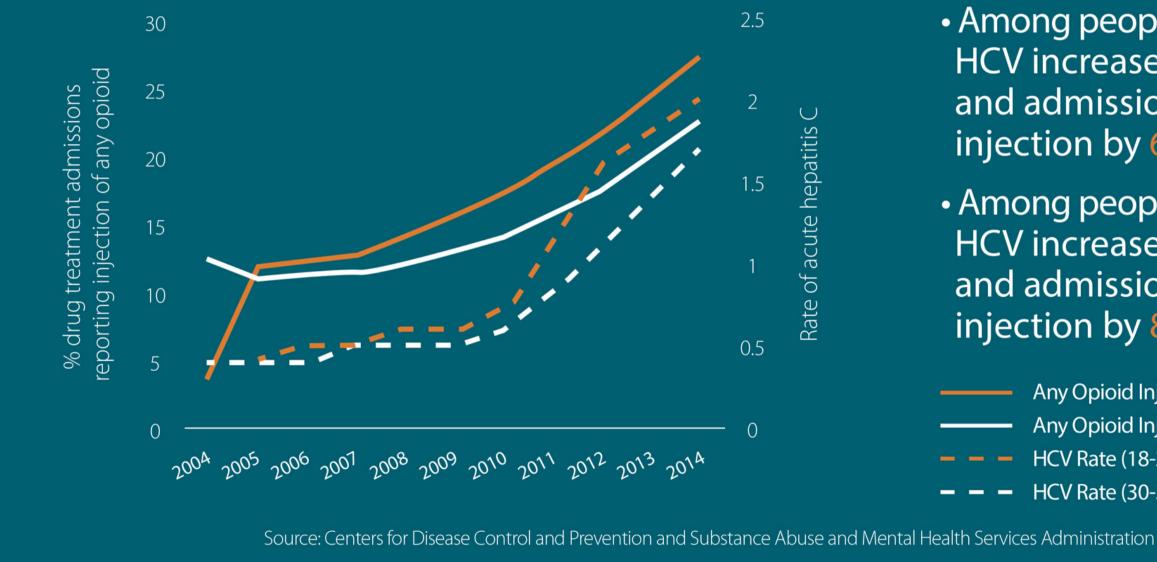




### **PREVENTION & EDUCATION** WHAT'S CHANGED?

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### **HEPATITIS C AND OPIOID INJECTION ROSE DRAMATICALLY IN YOUNGER AMERICANS FROM 2004-2014**



HTTPS://WWW.CDC.GOV/NCHHSTP/NEWSROOM/2017/HEPATITIS-C-AND-OPIOID-INJECTION-PRESS-RELEASE.HTML

BIGG ELIMINATION TRIBUTE PROJECT MODULE 1  Among people aged 18-29, HCV increased by 400% and admission for opioid injection by 622%

 Among people aged 30-39, HCV increased by 325% and admission for opioid injection by 83%

> Any Opioid Injection (18-29) Any Opioid Injection (30-39) HCV Rate (18-29) HCV Rate (30-39)

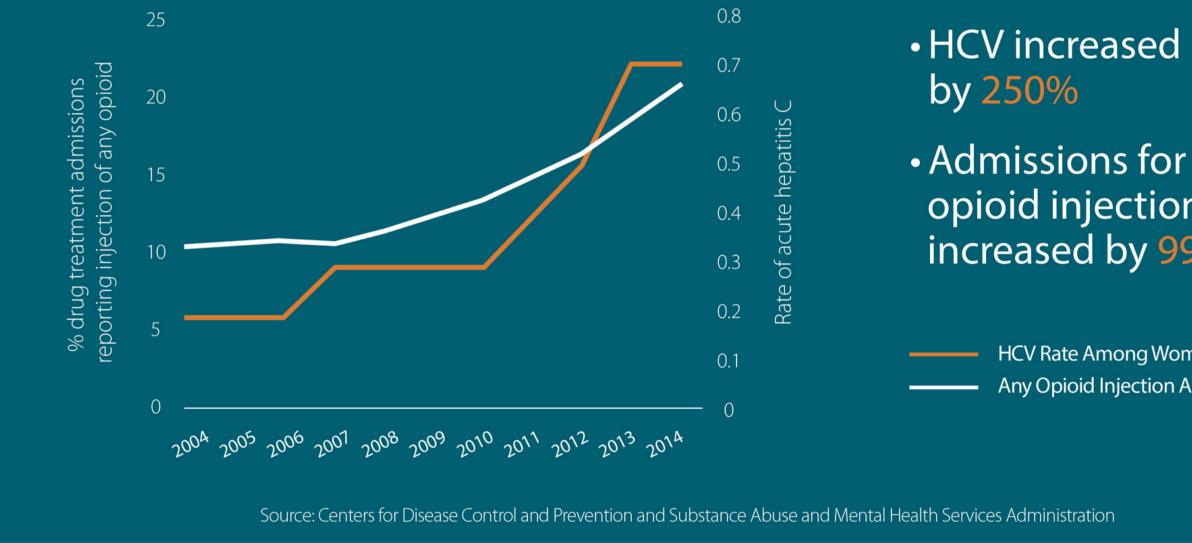




### **PREVENTION & EDUCATION** WHAT'S CHANGED?







HTTPS://WWW.CDC.GOV/NCHHSTP/NEWSROOM/2017/HEPATITIS-C-AND-OPIOID-INJECTION-PRESS-RELEASE.HTML

- opioid injection increased by 99%
  - HCV Rate Among Women Any Opioid Injection Among Women

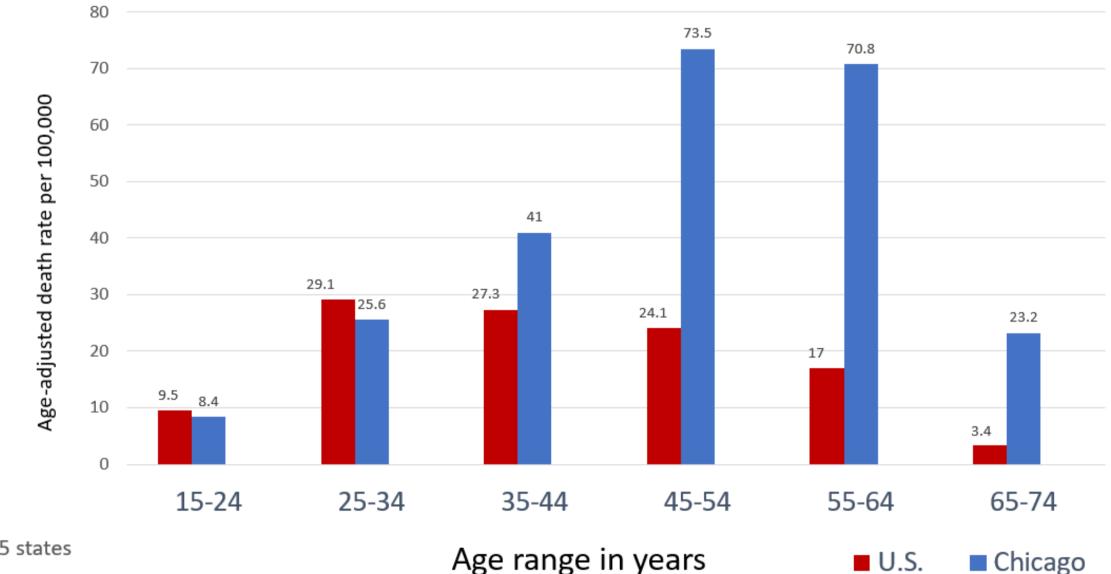




# **PREVENTION & EDUCATION** WHAT'S CHANGED?

## 35

### Opioid Overdose Death Rate by Age in the United States\* and Chicago, 2017



US\* Includes 35 states

Age range in years

### http://hmprg.org/wp-content/uploads/2019/11/chicago-mortality-data-.ppx

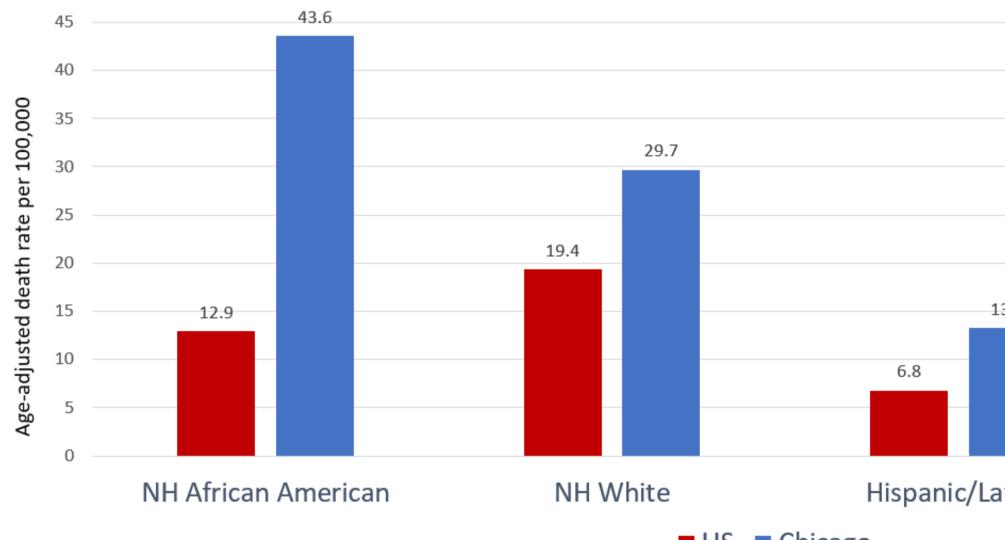
Scholl L, Seth P, et al. Drug and Opioid-Involved Overdose Deaths- United States, 2013-2017. MMWR Jan 4 2018;67(5152);1419-1427 Epidemiology Report: Increase in Overdose Deaths Involving Opioids, Chicago 2015-2016





### **PREVENTION & EDUCAT** WHAT'S CHANGED

## Opioid Overdose Death Race/Ethnicity US\* & Chica



US\* Includes 35 states

US Chicago

http://hmprg.org/wp-content/uploads/2019/11/chicago-mortality-data-.ppx

Scholl et al. Drug and Opioid-Involved Overdose Deaths- United States 2013-2017. MMWR Jan 4, 2019. Rushovich et al. Annual Opioid Surveillance Report- Chicago 2017. City of Chicago, October 2018.

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ago- 2	.017	
3.3		
5.5		
	1.6 0	
itino	NH Asian/PI	

### **PREVENTION & EDUCATION TOOLS & RESOURCES**

- 1. Outreach sites and locations CRA, Live4Lali, etc.
- 2. Ryan White programs, funding, entitlements
- 3. SAMHSA TIP Manuals
- 4. State substance use treatment dollars (SUPRA, etc.)
- 5. FQHC's & HRSA identify HCV treaters & MAT prescribers
- 6. Clinical trials
- 7. Harm Reduction Coalition toolkits
- 8. ECHO for HCV and OUD

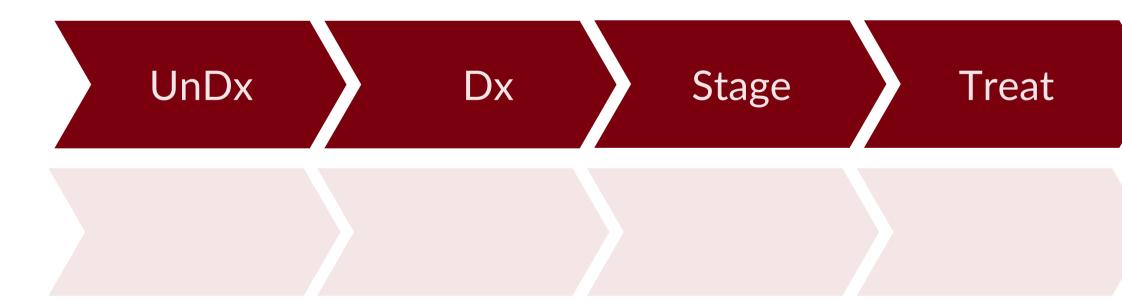




### PREVENTION & EDUCATION **EXERCISE**

**Program Assessment Visioning Tool** 

- Take Stock
- Where do you want to go?
- How will you get there?
- Make a plan



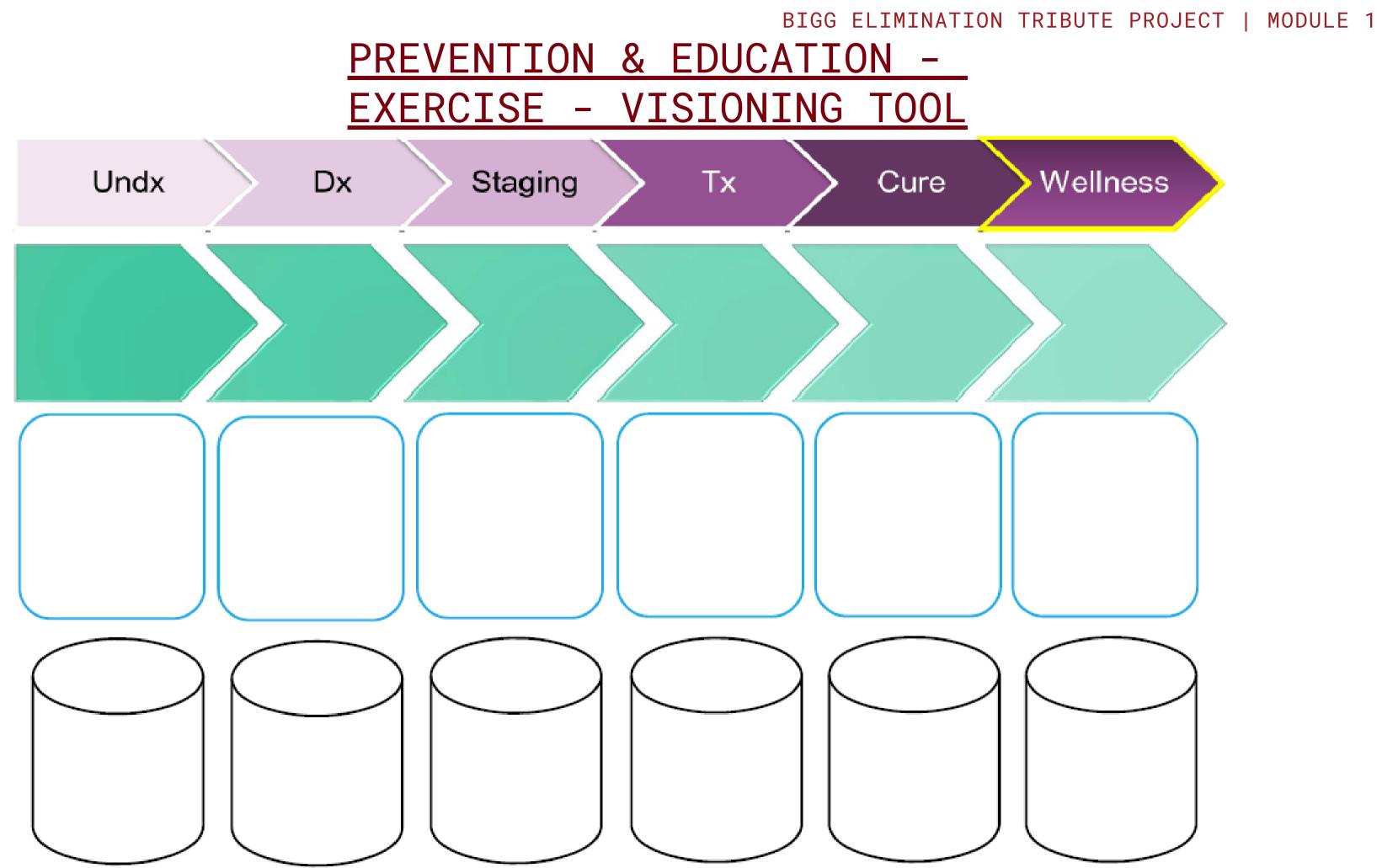


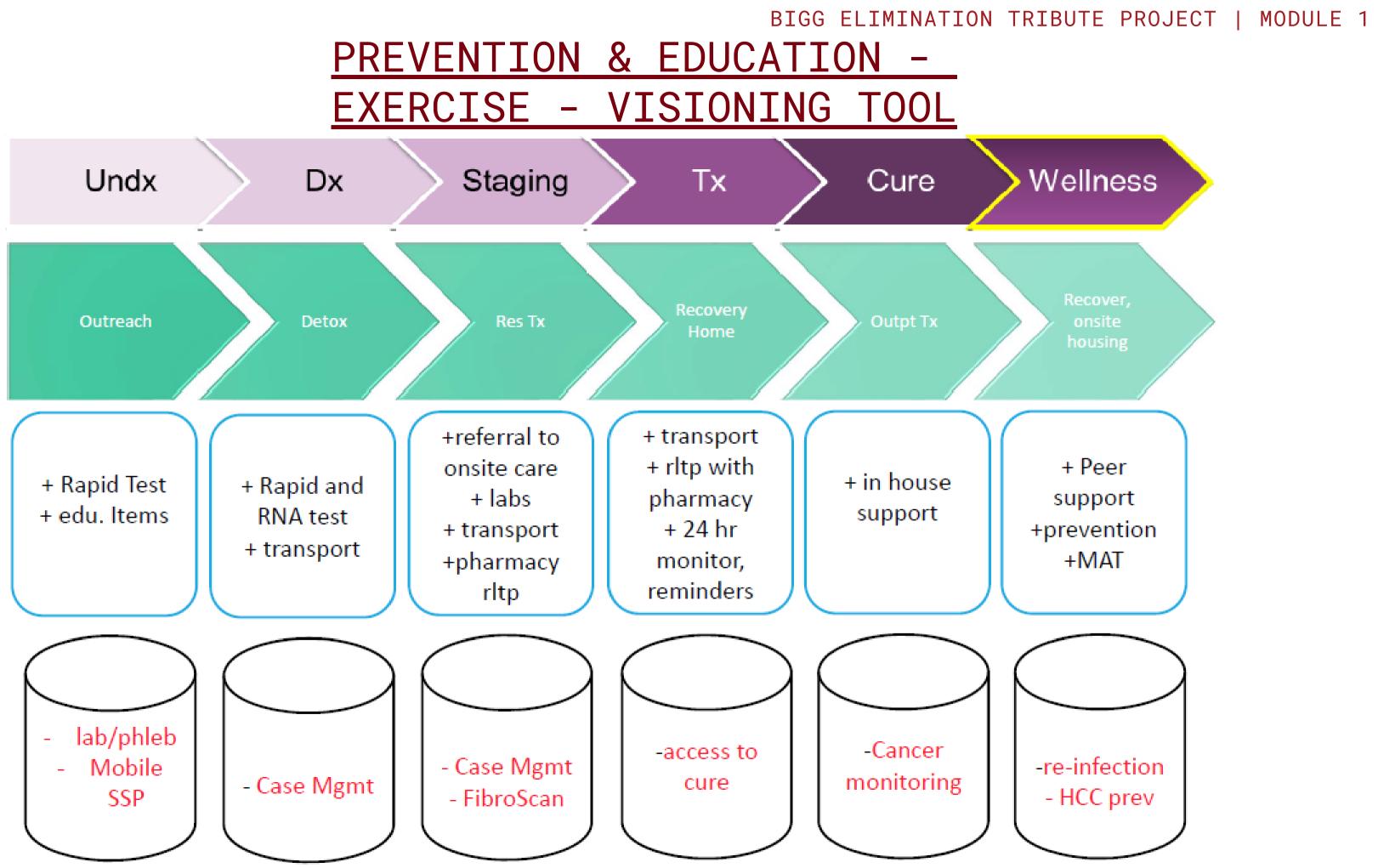












### BIGG ELIMINATION TRIBUTE PROJECT | MODULE 1 <u>PREVENTION & EDUCATION -</u> <u>EXERCISE - ACTION PLAN</u>

	Action 1	Action 2	Action 3
What actions or			
changes do you want			
to see?			
Who will carry out			
these changes?			
By when will they take			
place and for how			
long?			
What resources are			
needed to carry out			
these changes?			
Communication – who			
should know what?			

# In conclusion...

### What's Next?

- Next Module is: <u>Diagnosis -</u> <u>Screening & Testing</u>
- About 1 hour/1 CEU
- The purpose of the next module will be to break down the various HCV testing options

<u>Obtaining CEU's &</u> <u>Attendance</u> Certificates

• Don't forget to take the pre and post-test surveys to receive CEU's or Certificates of Completion!

### <u>Access to Tools</u>

Access to tools, resources, slides, and activities can all be found at https://hepcchallenge.org/bigg/



### **Questions?** BiggInfo@CaringAmbassadors.org

