

Florida's Response to Hepatitis C and HIV Outbreaks and Clusters

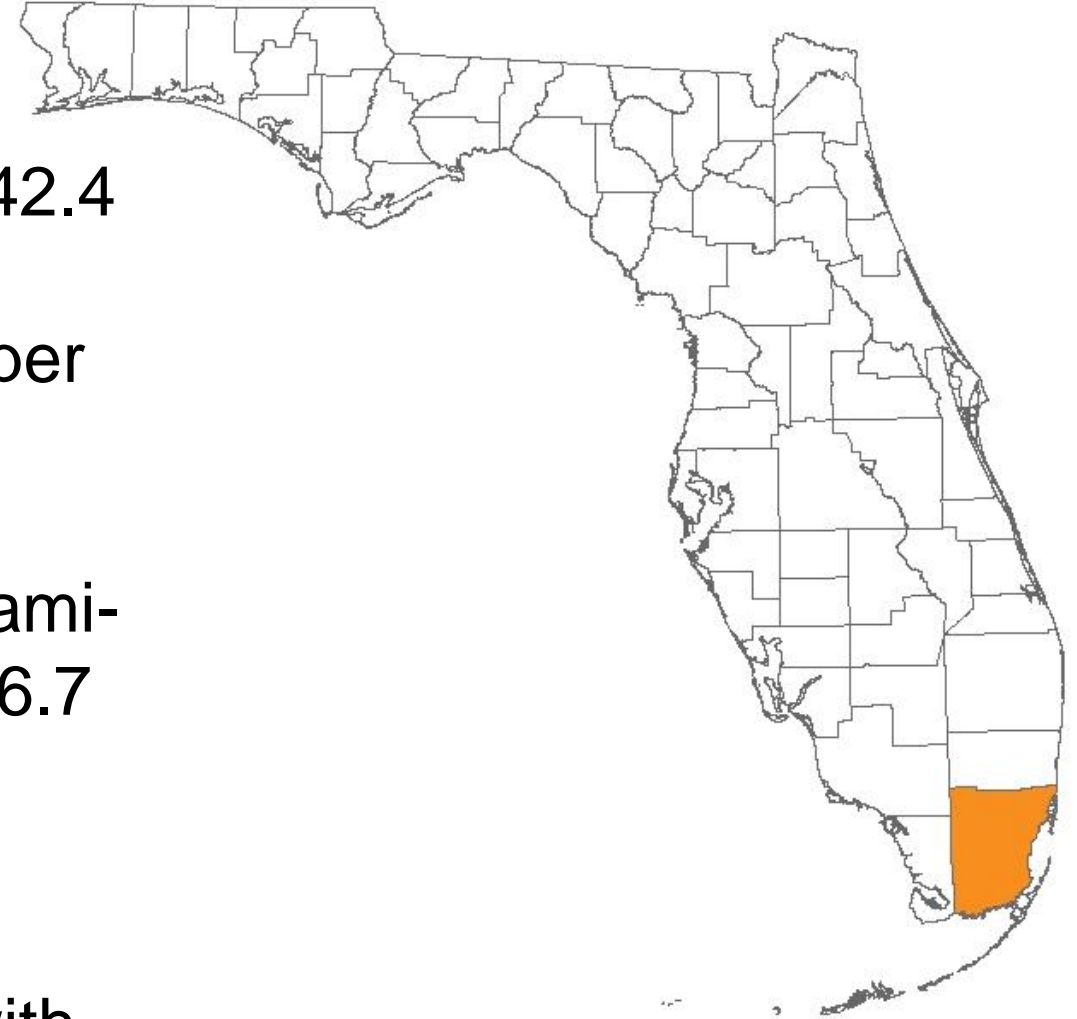
Hepatitis Virtual Learning Collaborative
February 9, 2022



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Florida Department of Health

Miami-Dade County, Florida

- Estimated population is 2,864,600¹
- Highest rates of new HIV diagnoses (42.4 per 100,000) for any metropolitan statistical area in United States (13.2 per 100,000)²
- Rate of acute Hepatitis C (HCV) in Miami-Dade 1.6 per 100,000 (chronic HCV 46.7 per 100,000) in 2019
- At the time of the investigation Miami-Dade was the only county in Florida with a legal Syringe Services Program (SSP)








¹https://www.flhealthcharts.gov/FLQUERY_New/Population/Count

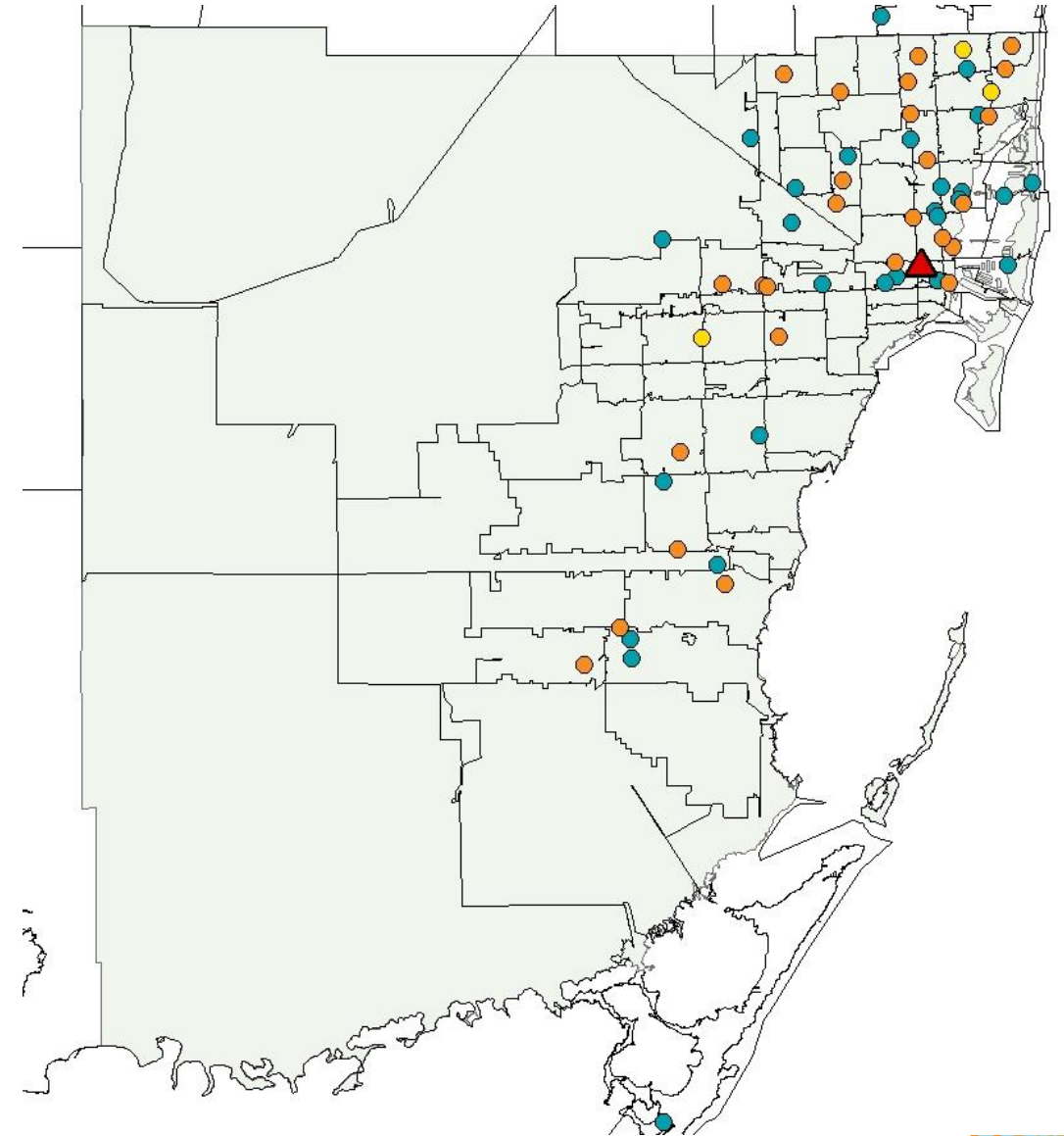
²Centers for Disease Control and Prevention (2019). HIV Surveillance Report, 2020; vol. 32.

Acute Hepatitis C Cases in Miami-Dade, 2018¹

- 63 acute cases reported in 2018
- 34 (54%) investigated
- 3 (9%) interviewed

Legend

-  NHBS site
-  Cases Investigated & Interviewed
-  Cases Investigated
-  Cases Not Investigated
-  Miami



NHBS-IDU5 Sample 2018

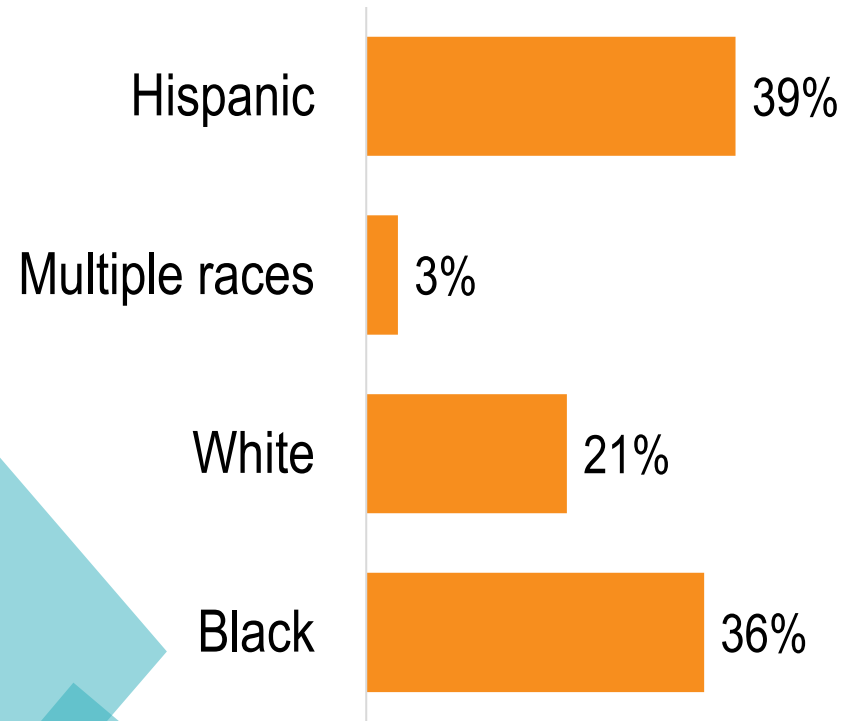
- Started sampling eligible PWID in Miami-Dade County August 15 through December 15, 2018
- 57% overall with reactive Hepatitis C (HCV) (includes acute)
- Acute non-reactive rapid HCV test, positive RNA NAT
- 18% positivity rate for acute HCV (n=89)



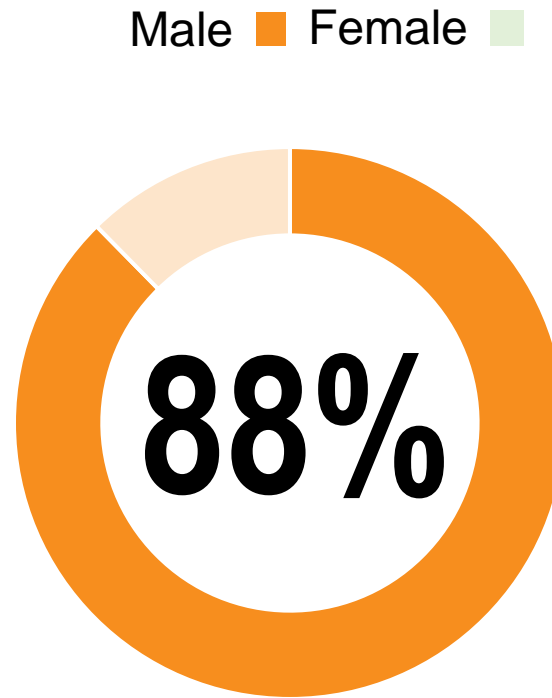
NHBS-IDU5 Acute HCV

506 individuals participated with a confirmatory HCV result, **89** determined HCV acute, **9 of the acute HCV cases** had a reactive HIV result

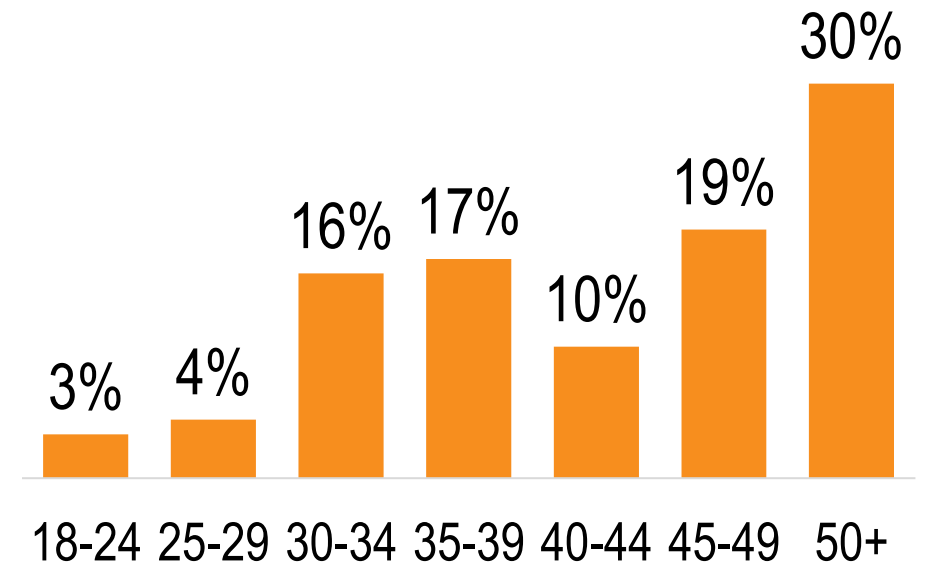
Race/Ethnicity



Gender



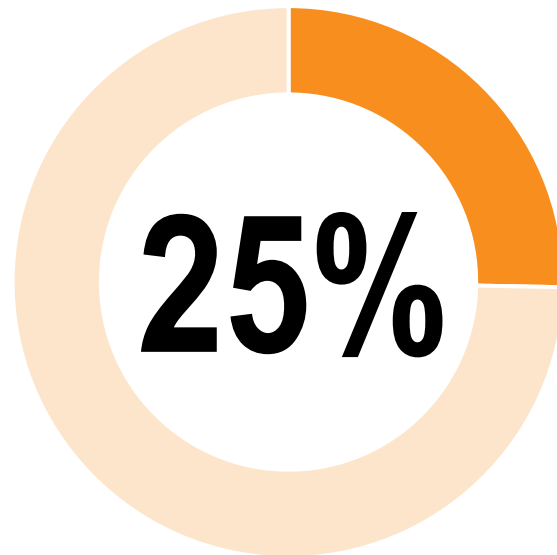
Age at time of interview



NHBS-IDU5 Acute HCV Needle Exchange Use

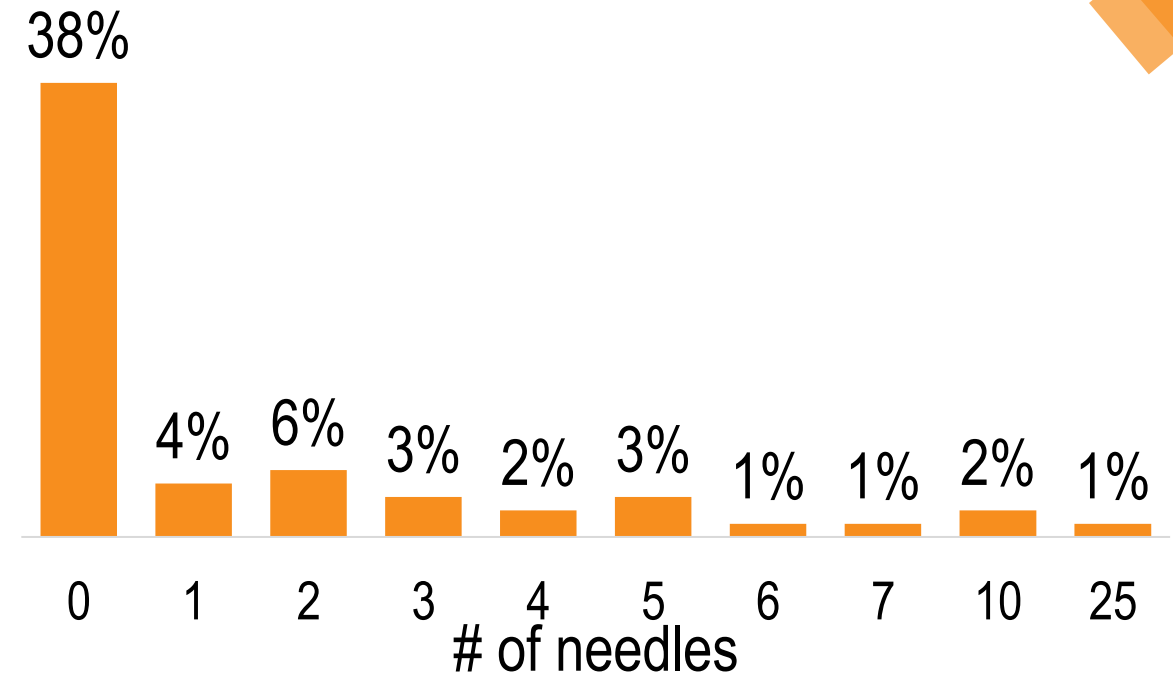
Participated in SSP

Yes ■ No ■

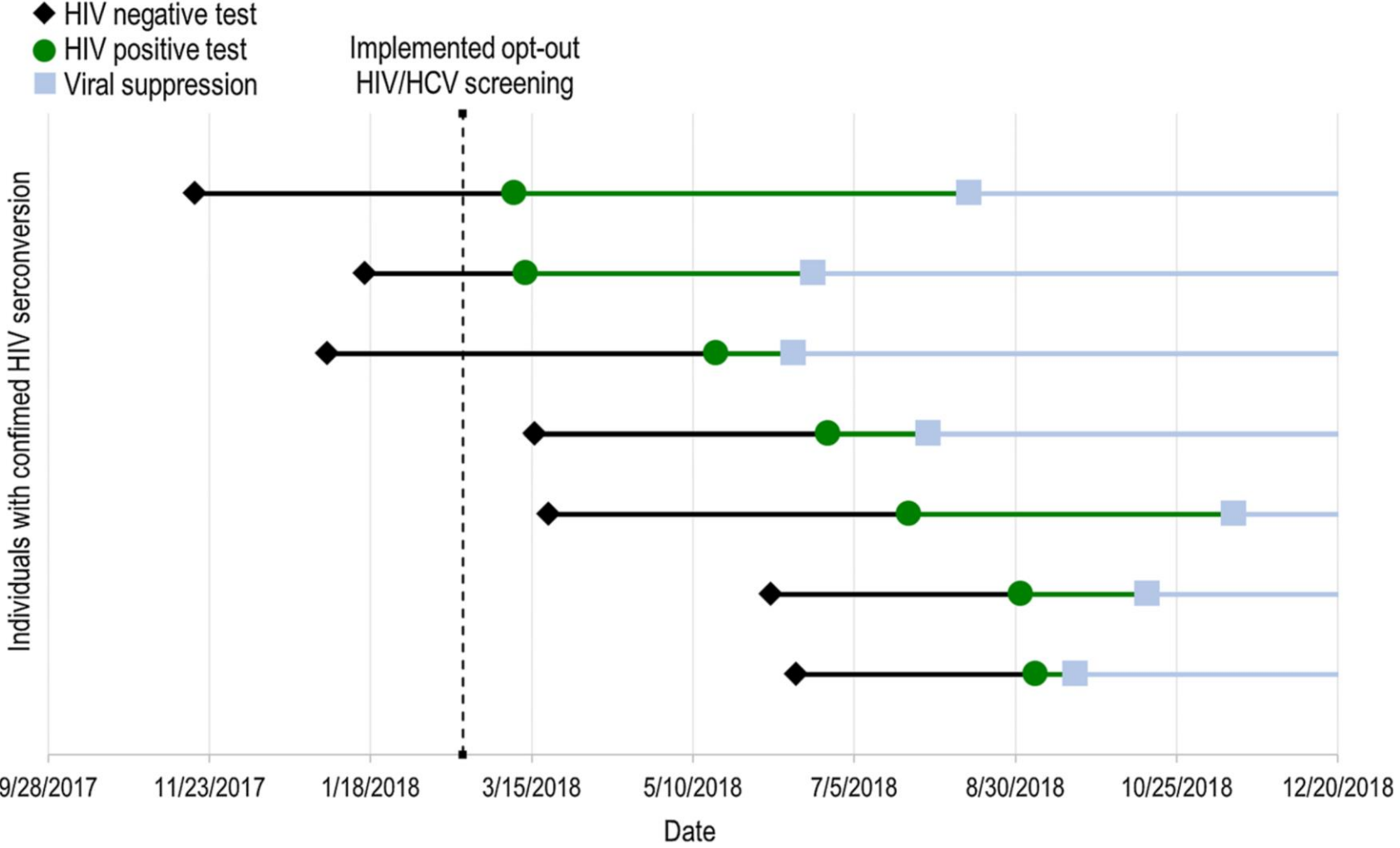


Compared to 53% of non-acute HCV participants

Used Needle After Another Person by Number of People Shared

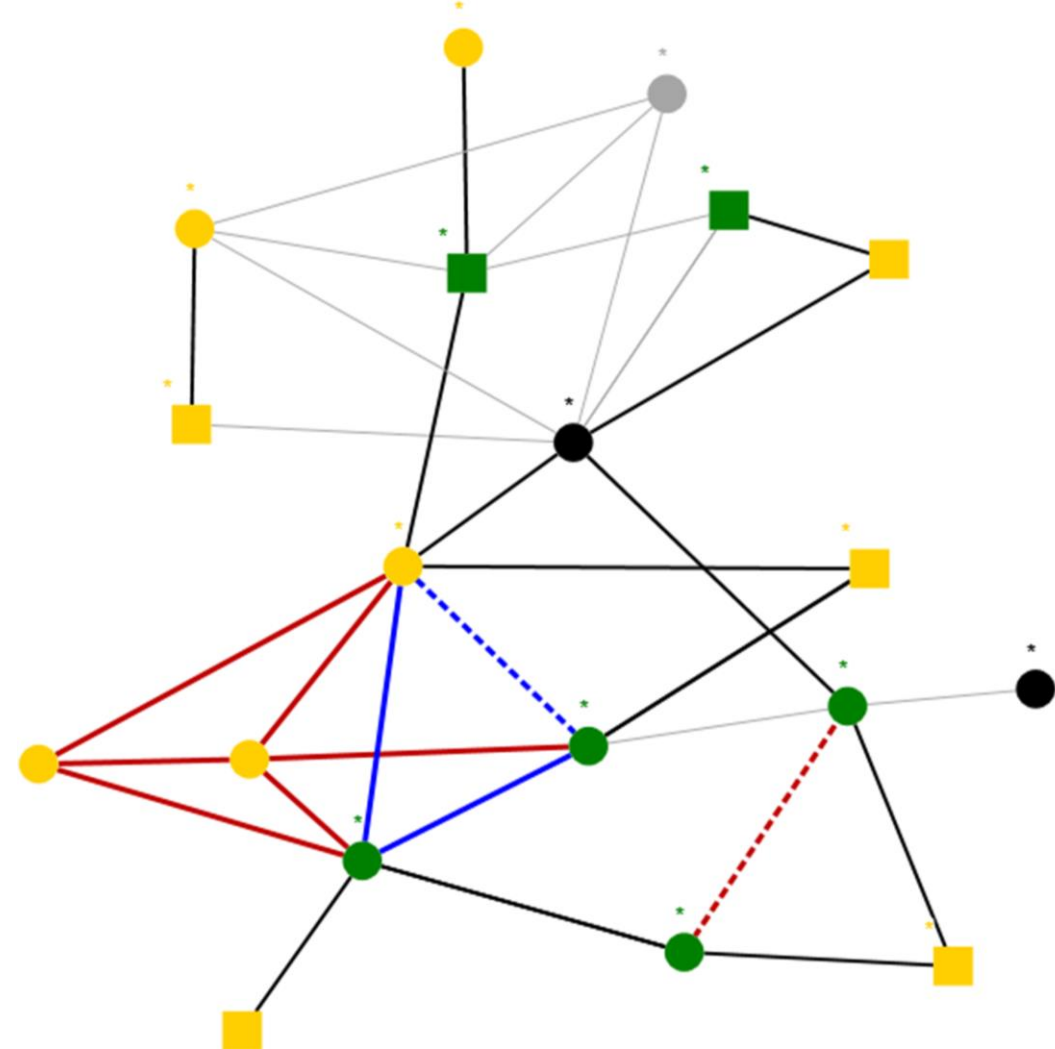


Time-series of individuals with confirmed HIV seroconversion, Miami, Florida, 2018



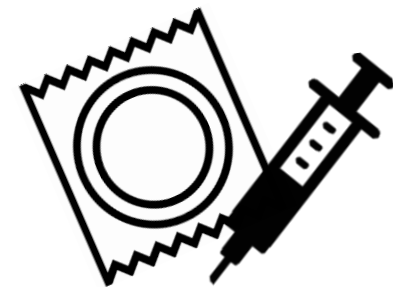
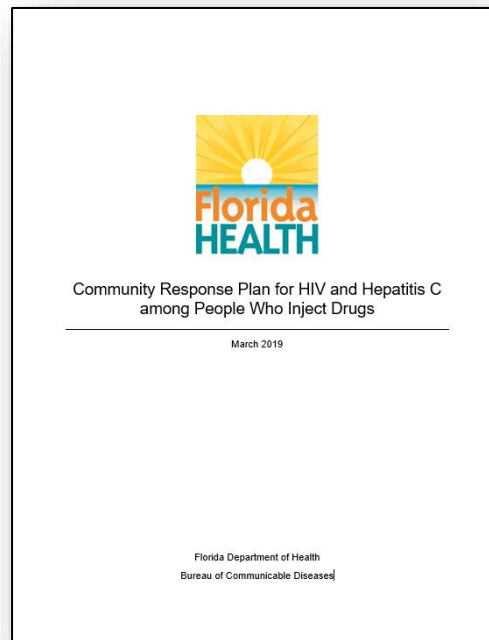
Primary epidemiologic and molecular network of confirmed HIV seroconversions

- Confirmed HIV Seroconversion
- Previous Positive HIV Status
- Negative HIV Status
- Unknown HIV Status
- No HIV Genotype
- * IDEA Participant
- Epidemiological Link
- Social Link
- Molecular Link at 0.5% Genetic Distance
- - Epidemiological Link and Molecular Link at 0.5% Genetic Distance
- Molecular Link at 1.5% Genetic Distance
- - Epidemiological Link and Molecular Link at 1.5% Genetic Distance



Response to Increase in Acute HCV

- Organized local leadership in Miami-Dade
- Developed a comprehensive written “outbreak” response plan for HCV and HIV focus on PWID
- Mobilized community stakeholders including only SSP in the county

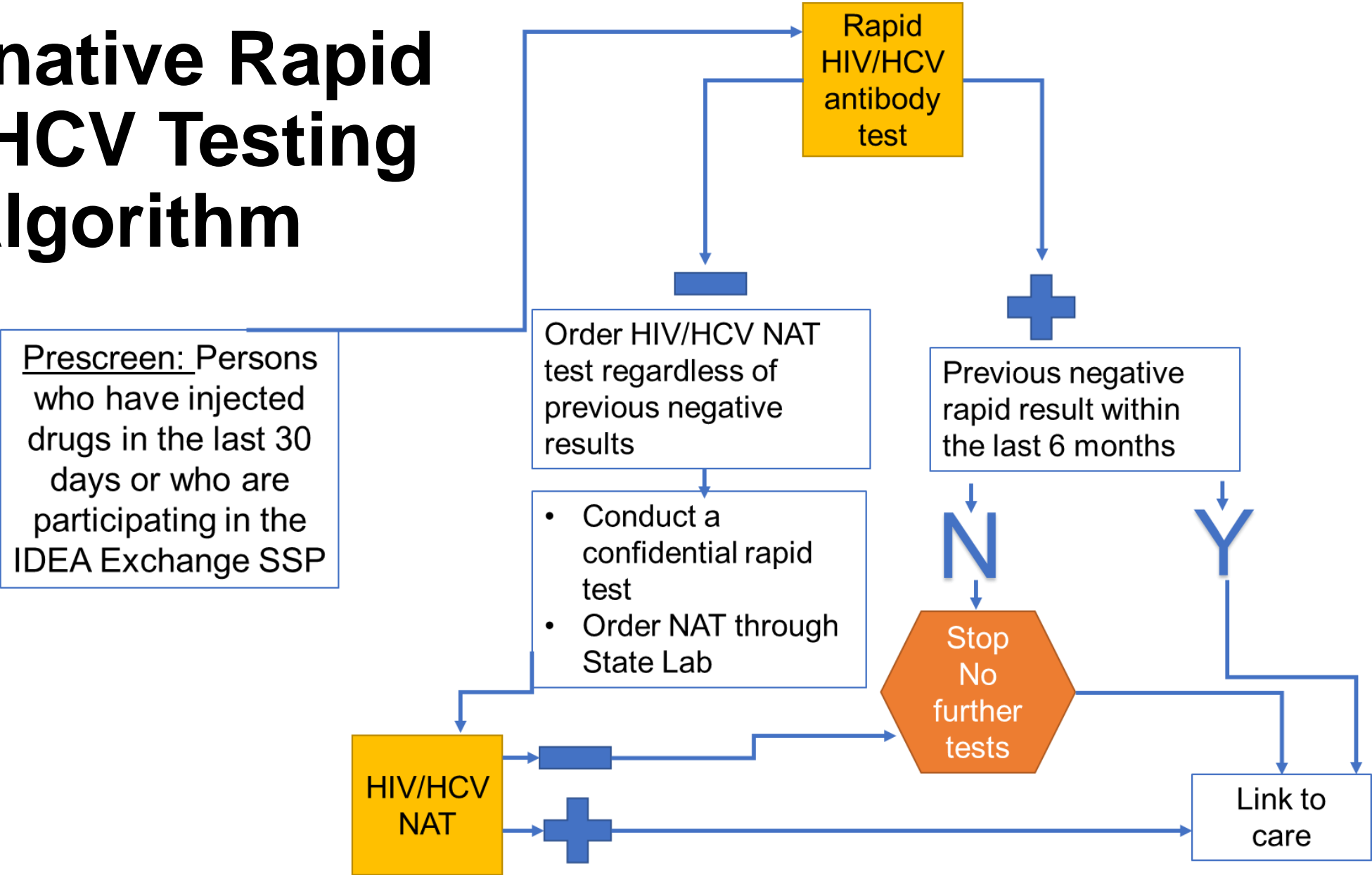


Response to Increase in Acute HCV

- Leveraged Department and local resources for testing and treatment referrals
- Ramped up outreach and testing events
- Improved focus on surveillance local investigations
- Developed alternative testing algorithm to identify acute HCV



Alternative Rapid HIV/HCV Testing Algorithm



HIV Risk Network Among PWID, Miami-Dade, Florida, 2018


AIDS and Behavior

<https://doi.org/10.1007/s10461-019-02680-9>

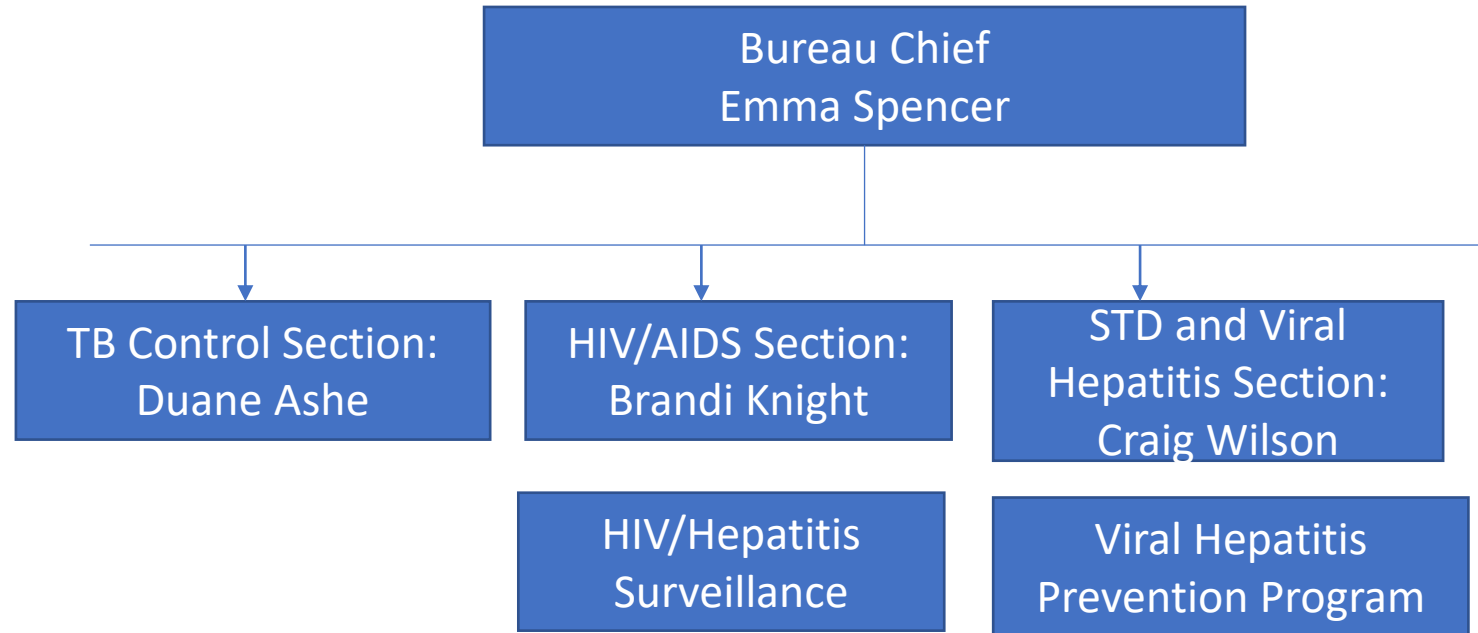
ORIGINAL PAPER



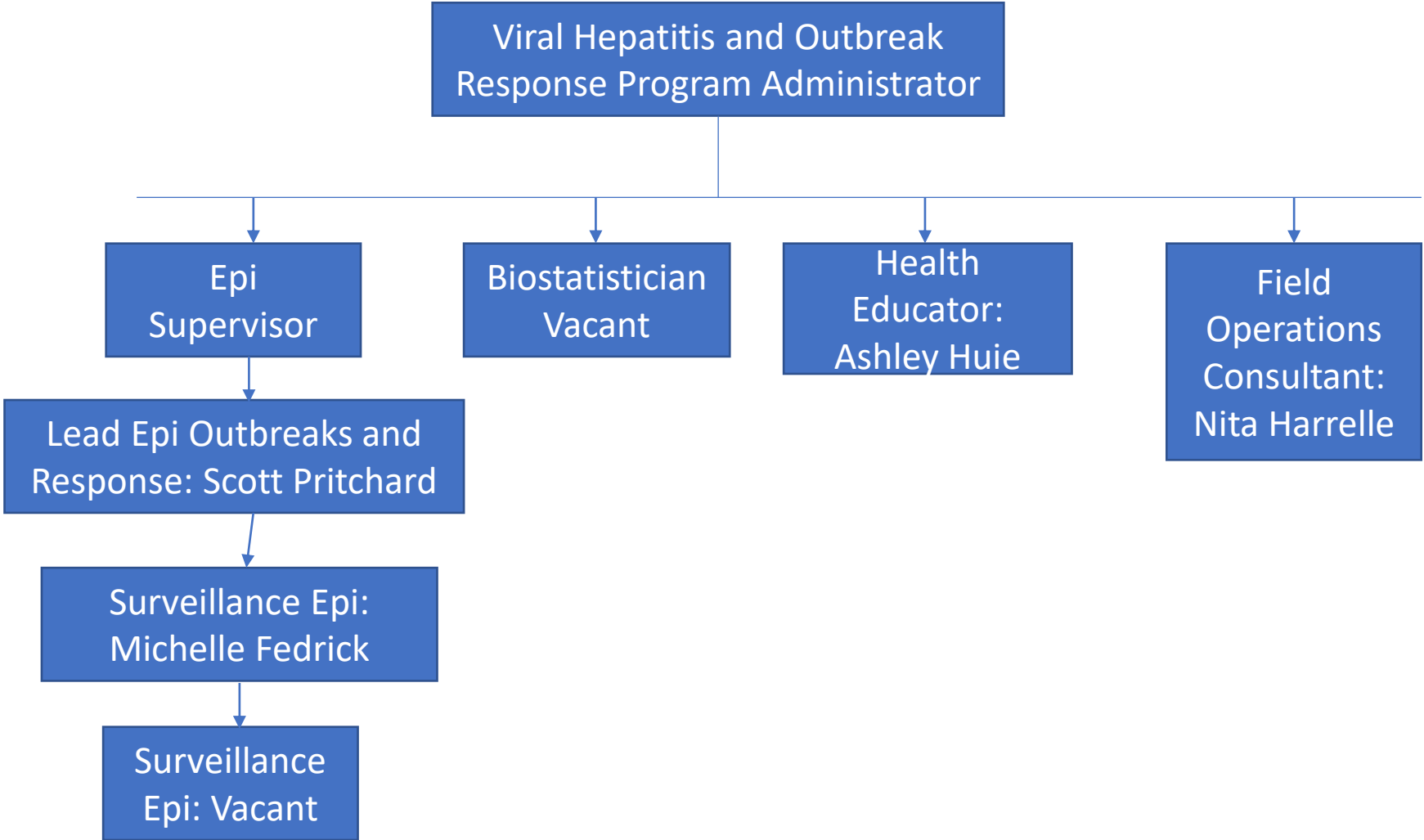
Rapid Identification and Investigation of an HIV Risk Network Among People Who Inject Drugs –Miami, FL, 2018

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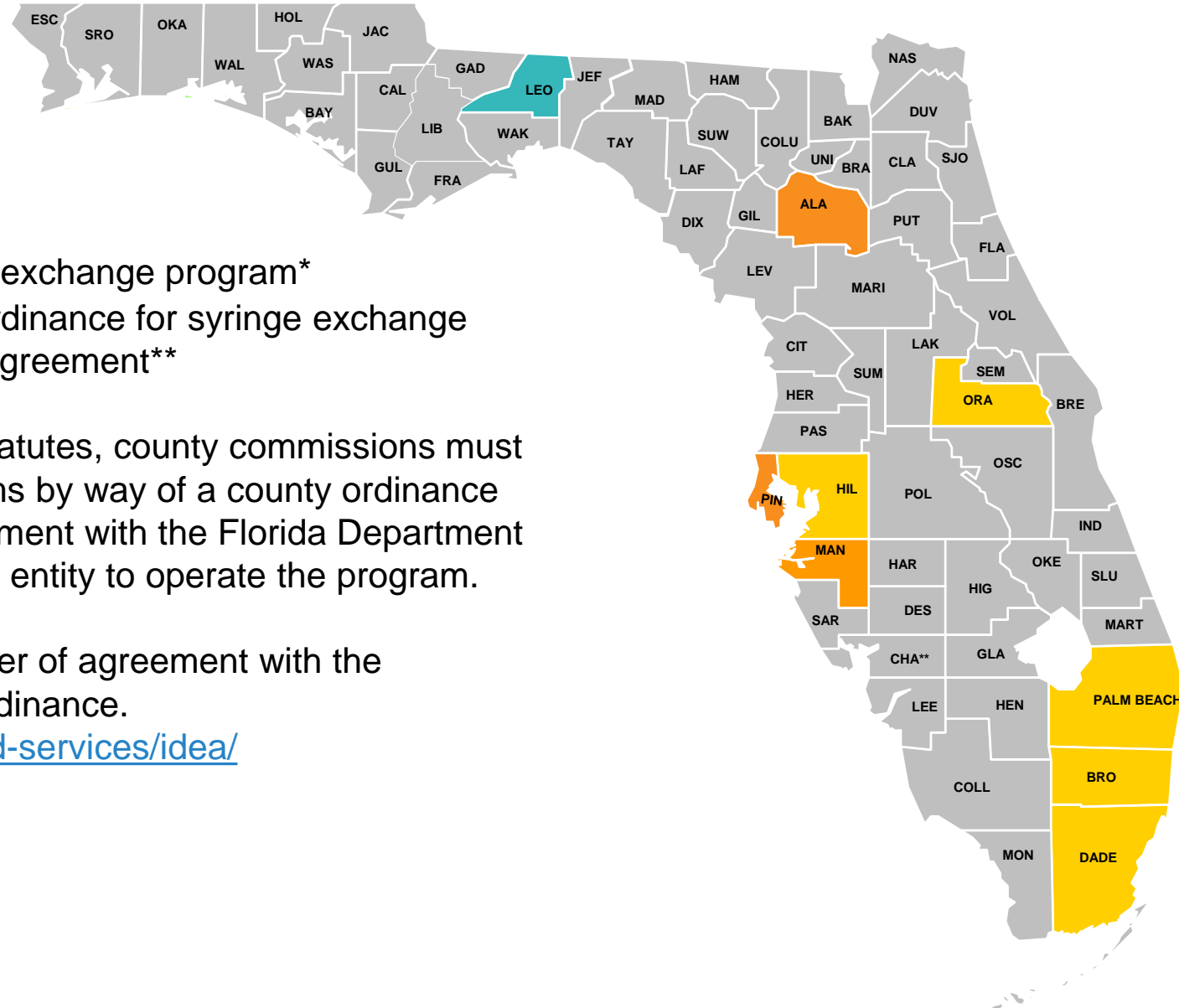
Previous Bureau of Communicable Disease Organization






New Bureau Section



Florida Syringe Exchange Program Implementation Status (as of October 1, 2021)



-  County with operational syringe exchange program*
-  County with approved county ordinance for syringe exchange
-  County with executed letter of agreement**

*Per section 381.0038(4), Florida Statutes, county commissions must authorize syringe exchange programs by way of a county ordinance and must enter into a letter of agreement with the Florida Department of Health prior to contracting with an entity to operate the program.

**Counties that have executed a letter of agreement with the Department have also passed an ordinance.

www.floridahealth.gov/programs-and-services/idea/

Acknowledgements



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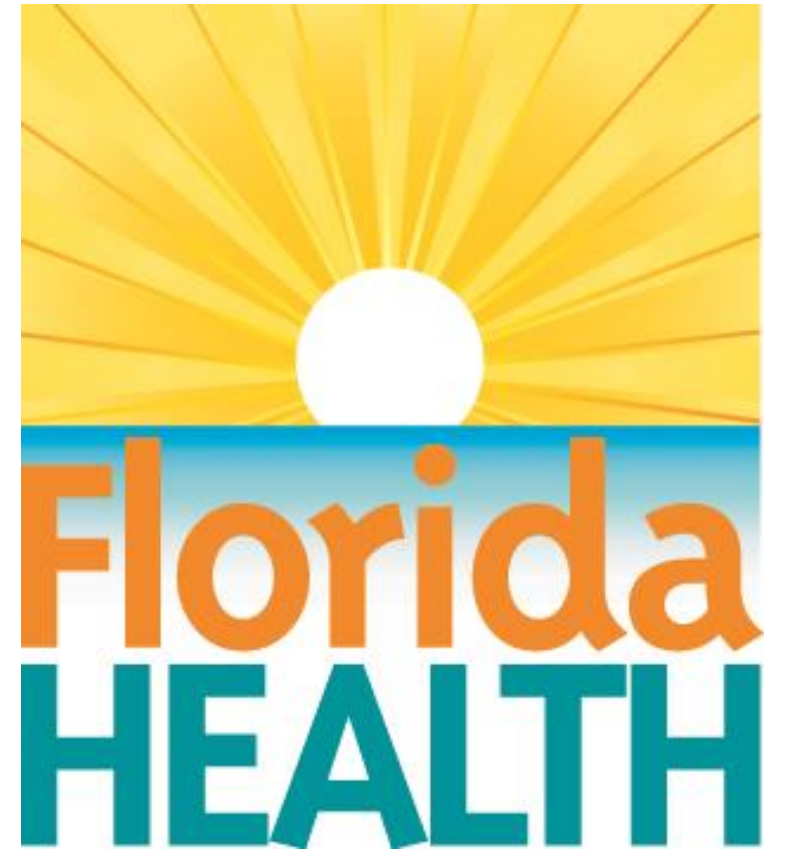


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Thank you!

Discussion & Questions



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