Substance Abuse Behaviors among Newly Reported Hepatitis C Virus Positive Youth

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Public Health

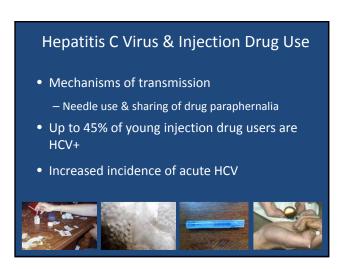
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Hepatitis C Virus (HCV) Infection • Bloodborne transmission • 3 million chronic cases in United States • 75% of cases unaware of HCV status • No vaccine available "3 of every 4 cases are unaware they are infected"





Objective

- Describe general epidemiology characteristics and substance abuse behaviors of HCV positive youth in Philadelphia
- Examine differences between injection drug users and non-injection drug users

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METHODS | RESULTS | DISCUSSION

Study Population

- Newly reported HCV+ laboratory result
- Event date January 1, 2012 June 30, 2013
- 13 30 years of age
- Philadelphia resident

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Data Collection

- Case reporting
- Investigation tools
- Investigation approach

Data Management & Analysis

- Communicable Disease Management System
- SAS 9.3

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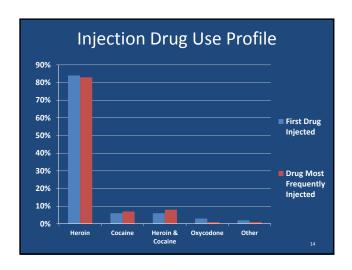


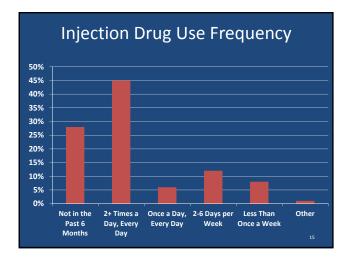
Demographics

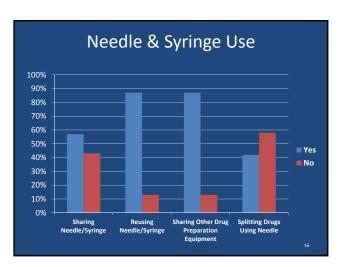
- 269 individuals fit inclusion criteria
 - 172 (72%) white
 - 189 (80%) non-Hispanic
 - 143 (53%) female
 - -252 (93%) ≥ 19 years of age

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History of Substance Abuse History of any street drug use was reported by 174 of 215 (81%) cases Median initiation age: 15 years old History of injection drug use was reported by 128 of 174 (74%) cases Median initiation age: 21 years old White cases (OR 8.12; CI 3.99 - 16.45) Non-Hispanic cases (OR 3.70; CI, 2.09 - 6.54)







Introduction to Injection Drug Use

- 67 (57%) of 117 cases reported being introduced by friends
 - Males were more likely (OR 2.14; CI, 1.01 4.55) to report being introduced by friends
- 21 (18%) of 117 cases reported being introduced by a sex partner
 - Females were more likely (OR 3.22; Cl 1.19 8.74)
 to report being introduced by a sex partner

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Injection Drug Use Social Networks

- 30 (54%) of 56 cases reported injecting mostly with friends
 - Cases 19-25 years of age were more likely (OR 4.47;
 CI, 1.35 14.78) to report injecting mostly with friends
- 13 (25%) of 56 cases reported injecting mostly with a sex partner
 - Cases 26-30 years of age were more likely (OR 9.9; CI 2.29 – 43.00) to report injecting mostly with a sex partner

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Predictors for Injection Drug Use

Risk Factor	Odds Ratio	Confidence Interval	P-value
History of incarceration	5.97	2.13 – 16.75	0.0007
Sexual contact with partner who injects drug	8.44	3.24 – 22.01	<0.0001

DISCUSSION

DISCUSSION

Discussion

- Limitations
 - Sample size
 - Recall bias
 - Unable to measure incidence
 - Distinguishing acute vs. chronic infection
- Strengths
 - Descriptive data
 - Generate new hypotheses

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Conclusion

- Results suggest that gender and age-group are associated with substance abuse patterns
 - Introduction to injection drugs
 - Injecting networks
- Results suggest a lack of injection safety knowledge
 - Reusing needles/syringes
 - Sharing other drug preparation equipment

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Thank You

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 - Ami Patel, PhD MPH
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