Gender Differences in Hepatitis C Exposure and Care Cascade among People Who Inject Drugs Systematic review and meta-analysis



CRCHUM

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Background

 Enhanced prevention and treatment among people who inject drugs will simultaneously reduce clinical burden, prevalence, and incidence of hepatitis C

 Among people who inject drugs, women's agency to enact harm reduction measures or access interventions may be constrained by a gendered power structure

Methods

SYSTEMATIC REVIEW

 Standard systematic review methods: search of Pubmed, EMBASE and Cochrane Database of Systematic Reviews, with screening and data extraction completed in duplicate

Limited to papers published 2012 onwards (post-introduction of direct-acting antivirals)

Extracted indicators: needle and syringe sharing (ever, in the past 6-12 months, in the past 6

months), ever tested for HCV, initiation and completion of DAA treatment, and attained sustained virologic response (SVR)

 Important HCV risk and cascade of care variables will vary by sex/gender

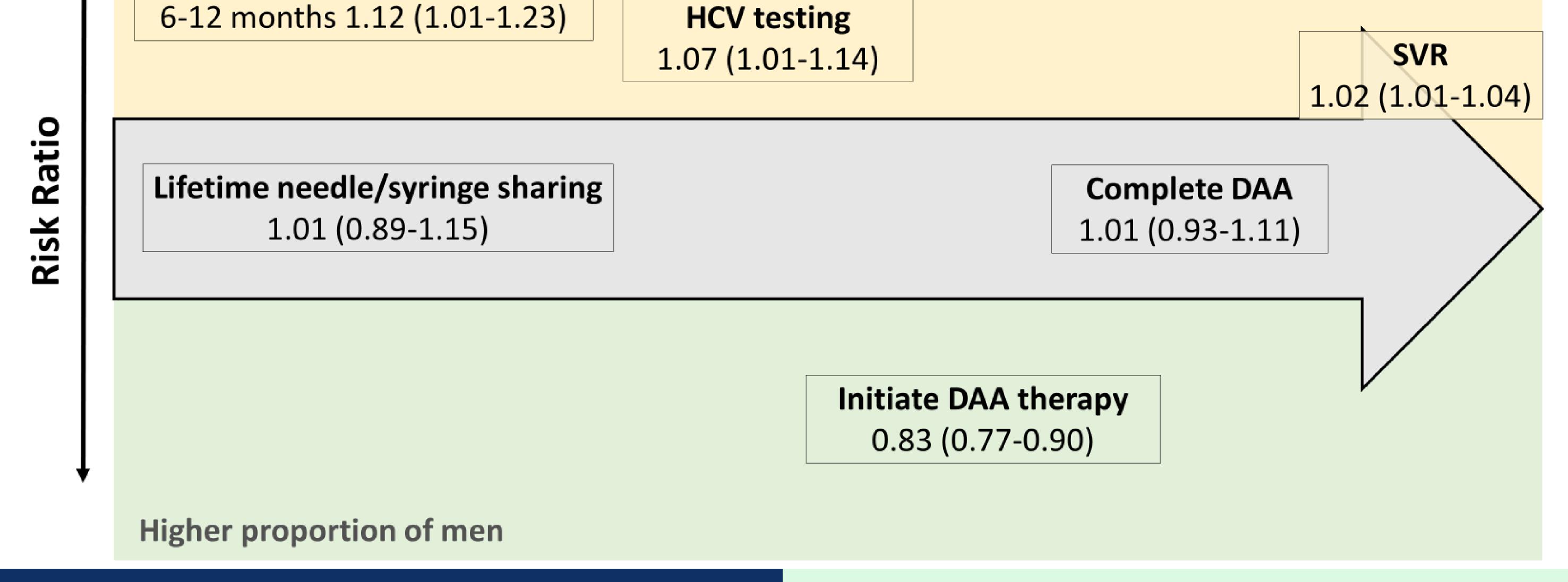
META-ANALYSIS

- Random effects meta-analyses given anticipated study heterogeneity, in particular:
- We anticipated that the literature would not consistently distinguish between "sex" and "gender", and that no or very little data would be available for transgender or gender-diverse people
 - We had to assume that male sex was congruent with a gender of "man", and that female sex was congruent with a gender of "woman"

Cascade of care

Higher proportion of women

Recent needle/syringe sharing <6 months 1.38 (1.09-1.76)



Key findings

Conclusion

- Needle and syringe sharing: no difference in lifetime sharing; women were more likely to report more recent sharing of needles and syringes
- HCV testing: women were more likely to have ever been tested for hepatitis C
- DAA treatment: men were more likely to have initiated treatment, but no difference was observed in treatment completion
- Sustained virologic response: women were more likely to attain SVR following treatment, but the difference is very small and unlikely to be clinically important

- There are sex and gender differences in hepatitis C risk, testing, and treatment uptake among people who inject drugs
- These differences are likely to be linked to gender (rather than sex) and influenced by a range of social, cultural, and economic factors
- Differences at different points in the hepatitis C continuum may interact in ways that are not yet clear to influence population health outcomes
- To succeed in eliminating hepatitis C by 2030, gender-sensitive programs addressing barriers to hepatitis C prevention and treatment among people who inject drugs, are needed

