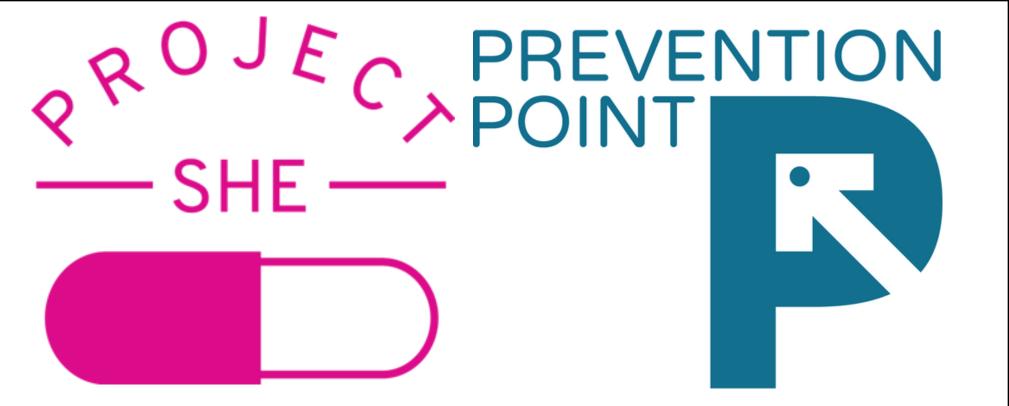


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**Among Women Who Inject Drugs in Philadelphia** 

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## Background

- Nearly 6.5 million persons living in the US have injected drugs in their lifetime. Despite representing only 3% of the US population, people who inject drugs (PWID) represented 6% of new HIV infections in 2015 and 36% of AIDS deaths.
- There are important gender-based disparities among PWID. If incidence rates continue unchecked, 1:23 women who inject drugs (WWID) will acquire HIV in their lifetime compared to 1:36 men.
- Pre-exposure prophylaxis (PrEP) involves the daily use of antiretroviral medications by HIV negative individuals to reduce their risk of acquiring HIV.
- However, little is known about the factors that affect WWID's decision to initiate PrEP.

## Objective

To explore WWID's decision-making process regarding PrEP initiation using the Health Belief Model as a heuristic for contextualizing their behavior.

#### Methods

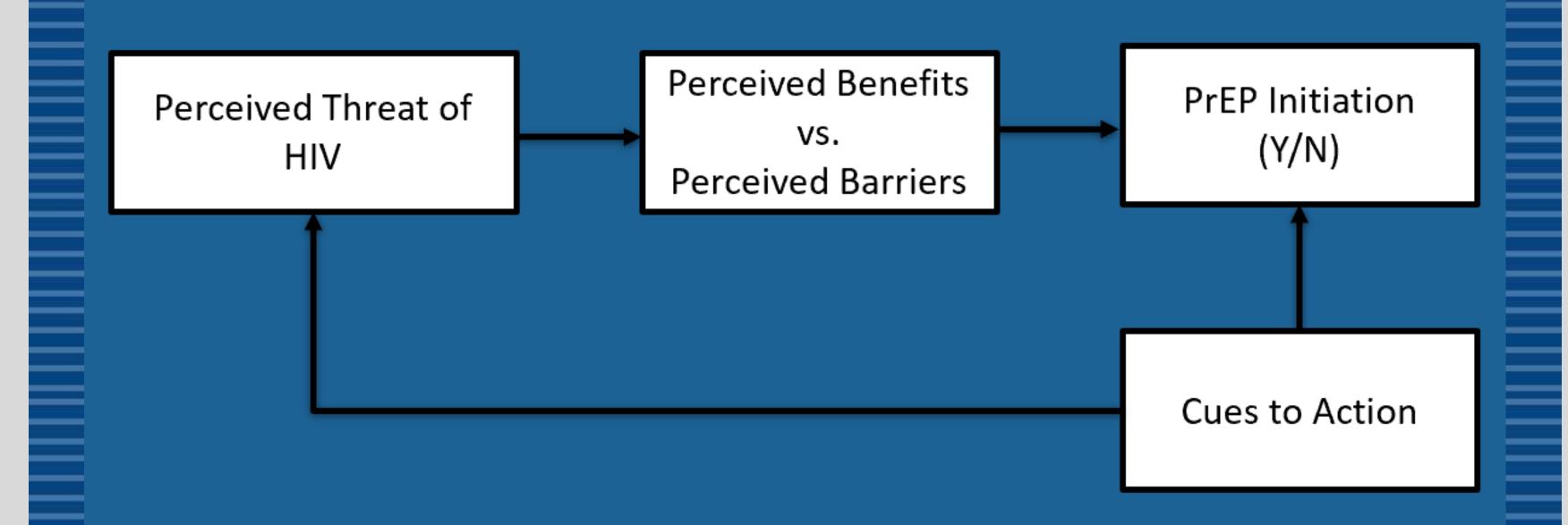
- Eligible participants were: ≥18 years old, biologically female, English-speakers, who report recent injection drug use and one other HIV risk factor (e.g., bacterial STI, syringe sharing), and were participating in an ongoing longitudinal PrEP implementation study (N=101).
- Between July 2018 May 2019, we recruited a purposive sample of 23 WWID who declined PrEP (n=7) and chose to take a PrEP prescription (n=16).
- They completed a semi-structured interview assessing perceived HIV risk and perceived benefits and barriers of initiating PrEP.
- All interviews were audio-recorded and transcribed verbatim.
- Participants received \$20USD as compensation. Procedures were approved by the Drexel University IRB.
- Analysis
  - Content analysis included development and application of a priori and emergent codes by two researchers who reviewed and discussed code application across all transcripts.
  - In the final stage, exemplar quotes were selected to represent themes and self-selected pseudonyms were added.

### Sample Description

- Median age: 37.5, interquartile range 34, 41
- Participants were predominantly white (72.2%)
- HIV risk behaviors, last 6 months:
  - Median injections daily: 5 (2, 6) & Syringe sharing: 23.8%
  - Transactional sex: 72.7%, Median sexual partners: 6 (2, 12), Inconsistent condom use: 81.8%
- Participants who tested positive for GC/CT: 27.3%
- HIV risk perception: 54.5% perceived they were extremely, very, or somewhat likely to get HIV

## Results

Figure 1: Constructs of the Health Belief Model that Guide Decision to Initiate PrEP



# Illustrative Quotes that Depict Domains

Perceived Threat of HIV

\*Self-selected pseudonyms were used instead of participants real names.

Most participants felt they had low HIV risk related to behavior within their control (e.g., injection drug use & syringe sharing). However, almost all expressed high concern for HIV risk beyond their control such as risks from interpersonal violence or environmental exposure to HIV.

"[I'm] not very vulnerable [to getting HIV]. I'm pretty safe. I don't have sex with random people, and I do not share any type of supplies...I just think freak accidents happen, anything can happen...How about a rape, how about anything, like, you never know." -Nikki

"I do [think I'm at risk for HIV] because ...first of all, you can get attacked at any given second, like, you don't see it coming...I didn't know that my girlfriend had HIV, I got poked with her needle ... she put me at risk for it, so accidents happen."

#### Perceived Benefits vs Barriers to PrEP Initiation

PrEP was perceived to be a highly beneficial HIV prevention tool due to its effectiveness which decreased HIV-related worrying.

"The main thing is [PrEP] prevents HIV...and gives security. Being an IV user, and [engaging in transactional sex], sometimes, yeah, [HIV] is always on my mind." -Rachel

"Like how they got a safe haven place, [PrEP is] like a safe haven med...In case anything happens, at least...I really don't have to worry about as much. -Shy

Accessing PrEP at the SEP decreased structural barriers that may have otherwise prevented PrEP uptake.

"It's just very easy [getting PrEP at SEP]. I come here anyway...I'm already comfortable here. I trust the staff." -Adrianna

## **Illustrative Quotes cont'd**

Perceived Benefits vs Barriers to PrEP Initiation

For those who did not initiate PrEP, important barriers including side effects and stigma motivated that decision.

"I didn't take PrEP because of I was worried about the stomach side effects... I'm already having a lot of stomach problems so I didn't want to put that on top of it." -Anonymous

"[I didn't take a prescription because] I was scared that maybe if someone had seen that prescription name...they would put a label on it... Some people might think that that's just the pill because you have HIV." -Butterz

#### **Cues to Action**

Study procedures served as cues to action by increasing participants' perceived HIV risk and the salience of PrEP as a relevant HIV prevention tool.

"[The positive STI result] was what changed my mind... I was thinking like that happened to me it could happen again you never know. And next time it could be HIV instead of an STD." - Tina

"I saw a flyer for [PrEP] at [HIV testing center]...I actually forgot about [PrEP]. And then I heard about the [Project SHE] study and then I was like, 'Oh my god, I can really get this?' Like, 'That's awesome!" -Adrianna

#### Conclusions

- Despite viewing PrEP as an important HIV prevention tool, especially for sources of risk beyond their control, not all WWID who were offered PrEP initiated it.
- For WWID who declined PrEP, the barriers associated with PrEP outweighed the benefits and prevented initiation.
- For women declining PrEP, supports to buffer perceived barriers to initiation and access to post-exposure prophylaxis may be warranted.
- For women who initiate, it is possible that adherence will wane if perceived risk does not remain high. Research to assess PrEP adherence among WWID is needed.

#### Acknowledgments

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