A Qualitative Analysis of COVID-19 Vaccination Intent and Recommendations to Increase Uptake Among Residents and Staff in Six Seattle Homeless Shelters

Sarah N. Cox^{1,2}; Nicholas B. Thuo¹; Julia H. Rogers^{1,2}; Ashley Meehan³; Amy C. Link¹; Natalie K. Lo¹, Brian J. Manns³; Constance Ogokeh³; Eric J. Chow^{1,4}; Melissa A. Rolfes³; Emily Mosites³; Morhaf Al Achkar^{5*}; Helen Y. Chu^{1*}

¹ Department of Medicine, Division of Allergy & Infectious Diseases, University of Washington, Seattle, WA, USA; ² Department of Epidemiology, University of Washington, Seattle, WA, USA; ³ Centers for Disease Control and Prevention, Atlanta, GA, USA; ⁴ Public Health – Seattle, WA, USA; ⁵ Department of Family Medicine, University of Washington, Seattle, WA, USA; ¹

INTRODUCTION

COVID-19 vaccination coverage remains lower among people experiencing homelessness (PEH) than the general population.

- PEH have higher prevalence of comorbidities, and are at increased risk of severe COVID-19
- PEH and the staff who work in shelters are at high risk for viral infections and outbreaks

Homelessness in Seattle King-County

- Among top 5 US cities with most PEH
- 53% of PEH in Seattle reside in shelters
- Racial & ethnic minorities are overrepresented

METHODS

Objective: To describe perceptions of COVID-19 vaccines in shelter settings over time and identify modifiable factors to improve acceptance among PEH



shelter sites

Study population: shelter residents and staff 18+ years across 6 homeless shelters in Seattle, WA from July 27 -October 15, 2021

Shelter site legend

- Adult mixed-gender (n=2)
- Mixed-gender family (n=2)
- Older adult male (n=1)
- Young adult (n=1)



Data collection: Retrospective information about perceptions of and intent to receive COVID-19 vaccines between March 2020 - October 2021

Thematic analysis in Dedoose

RESULTS

31 SSIs (25 residents, 6 staff) and 8 FGDs (43 residents)

Participant characteristics

- 9% Hispanic or Latinx

Figure 1. Venn diagram of perceptions of vaccines in general and COVID-19 vaccines specifically

<u>/accines in general</u>

Accessible Normal

Experimental Anxiety provoking Harmful Forced

Positive vaccine perceptions (blue), negative vaccine perceptions (red). Perceptions about vaccines in general (italicized), COVID-19 vaccines (bolded), and both vaccines in general and COVID-19 vaccines (italicized and bolded).

Table 1. Contributors to vaccine decision-making

Reasons to get va

- Fear of poor heal outcomes
- Desire to protect
- Desire to "return
- Requirement



"You're worrying about money, about finding a place... You're not worrying about 'Oh, I need to go get the shot, so I can be okay,' No, you are worrying about life."

• 54% 18-49 years, 32% 50-64 years, 14% 65+ years • 58% cisgender men, 27% cisgender women, 8% non-binary • 41% White; 35% Black or African American



accinated	Reasons not to get vaccinated
lth	 Uncertainty of long-term effects Reliance on natural immunity
others to normal"	 Competing demands Mistrust Religious beliefs Individual concern & superiority

We were exposed on a regular basis, and I just couldn't have us falling ill. We **didn't have the** luxury of being sick...becoming homeless had a huge play in how I looked at the vaccine."

Figure 2. Factors contributing to **COVID-19 vaccine accessibility**









centives like **aetting a gift card**, I definitely would have got [the COVID-19 vaccine] sooner. It wouldn't necessarily change people's minds, but it would definitely help people be like, 'Okay. Let me get the vaccine."

Figure 3. Word cloud of COVID-19 vaccine information sources



Reasons for trust: objective, honest, professional,

recommended by others

Table 2. Recommendations to increase COVID-19 vaccine uptake in shelter settings

COVID-19 Vaccine Access

- Bring vaccination services to shelters
- Allow drop-ins
- Pop-up sites near community, shelter
- Provide transport to vaccination sites
- Offer choice of COVID-19 vaccine type
- Improve appointment sign-up interface
- Pre-schedule additional doses if desired

COVID-19 Vaccine Incentives & Requirements

Incentives

- Money, gift cards
- Food
- Clothes
- Housing
- Paid time-off work, childcare for vaccination and recovery

Requirements

• Only mandate when necessary

Reasons for mistrust:

inconsistent, mishandled, profit-driven

"Later on he said that his information wasn't accurate, it's because they didn't know yet, and **he'd** admitted that, that makes him really show trust. I can trust him."

COVID-19 Vaccine Information

Information content

- Simplify message; no complex statistics
- Provide details on side effects, what the vaccine does
- Highlight importance in communal living settings
- Frame as a choice, without threatening language

Information delivery to residents

- Reiterate message
- Make available in multiple languages

- More educational events at shelter
- Encourage talking to health care providers
- Clarify how to get vaccinated relative to shelter location
- Restrict posting of misinformation

Information delivery to staff

- Regular training on how to connect residents to resources
- Communicate both verbally and written

CONCLUSION

- vaccine implementation.
- in shelter settings.

ACKNOWLEDGEMENTS

We thank shelter program managers, Public Health Seattle King County, colleagues at UCSF, research assistants, and all residents and staff who participated. This research was funded by the Centers of Disease Control and Prevention.

UW SCHOOL OF MEDICINE





• Do not generalize or ostracize demographic groups

• Provide paper-based materials, post where visible in shelters • Shelter staff build rapport and engage residents in discussion

 This study identified several COVID-19 vaccination strategies that are rooted in the voices and experiences of PEH, which can inform improved Future research should evaluate recommended strategies to determine feasibility and effectiveness



