

Background and Objective

Background: Transgender women and transfeminine people (TWTFP) experience intersecting socio-structural HIV vulnerabilities that increase risk for HIV acquisition and reduce pre-exposure prophylaxis (PrEP) uptake.

- PrEP is a highly effective biomedical HIV prevention strategy available in several modalities.

Objective: To examine these socio-structural vulnerabilities and their associations with PrEP modality preferences among a US nationwide online sample of TWTFP who expressed willingness to use PrEP.

Methods

Dataset: The Transgender Women's Internet Survey and Testing (TWIST) study, a cross-sectional online sexual health survey.

Sample: Sexually active TWTFP aged ≥15, without prior HIV diagnosis, willing to but not currently using PrEP (N=684), recruited between June 2023 - October 2024 via email listservs and social media.

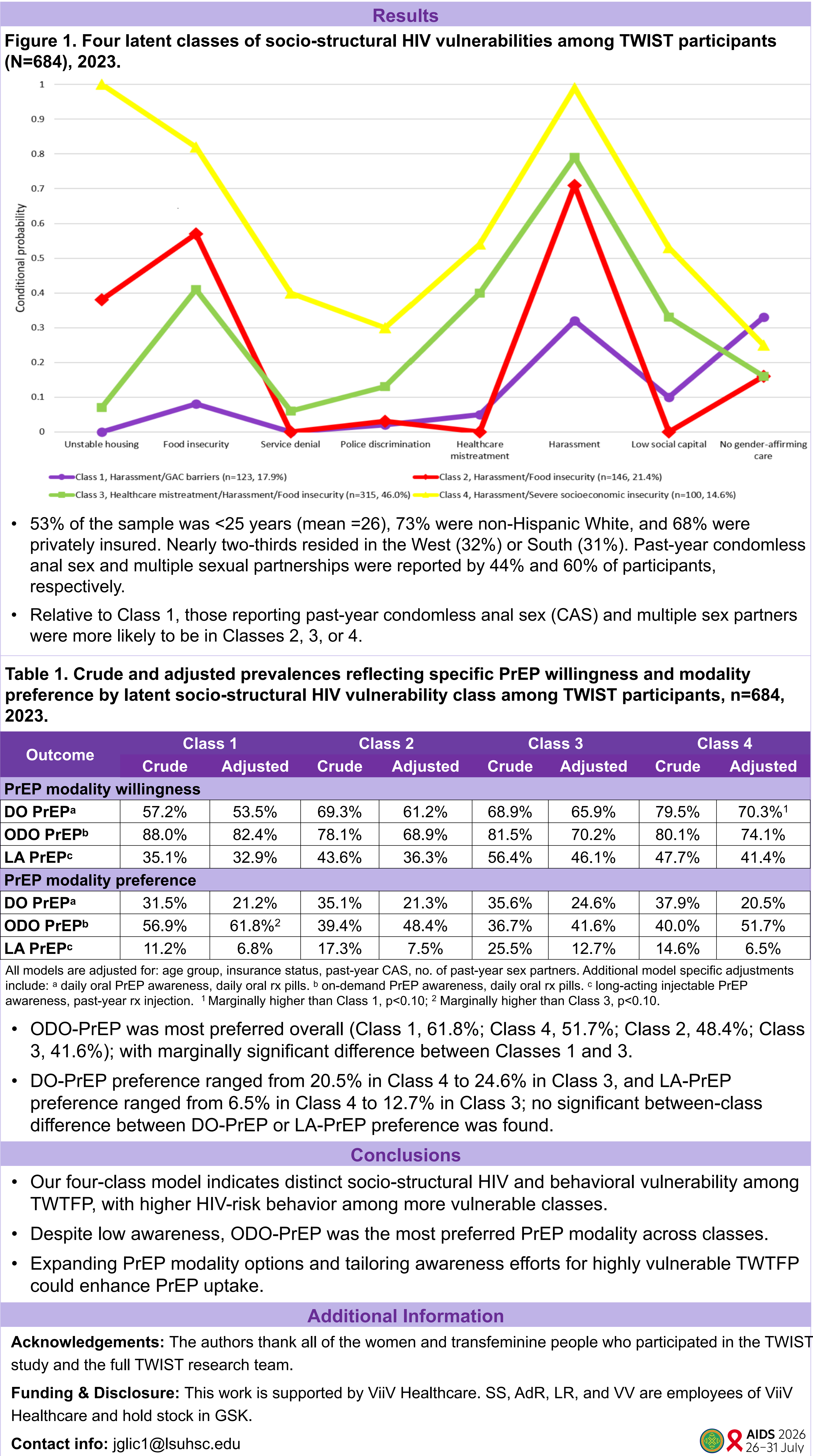
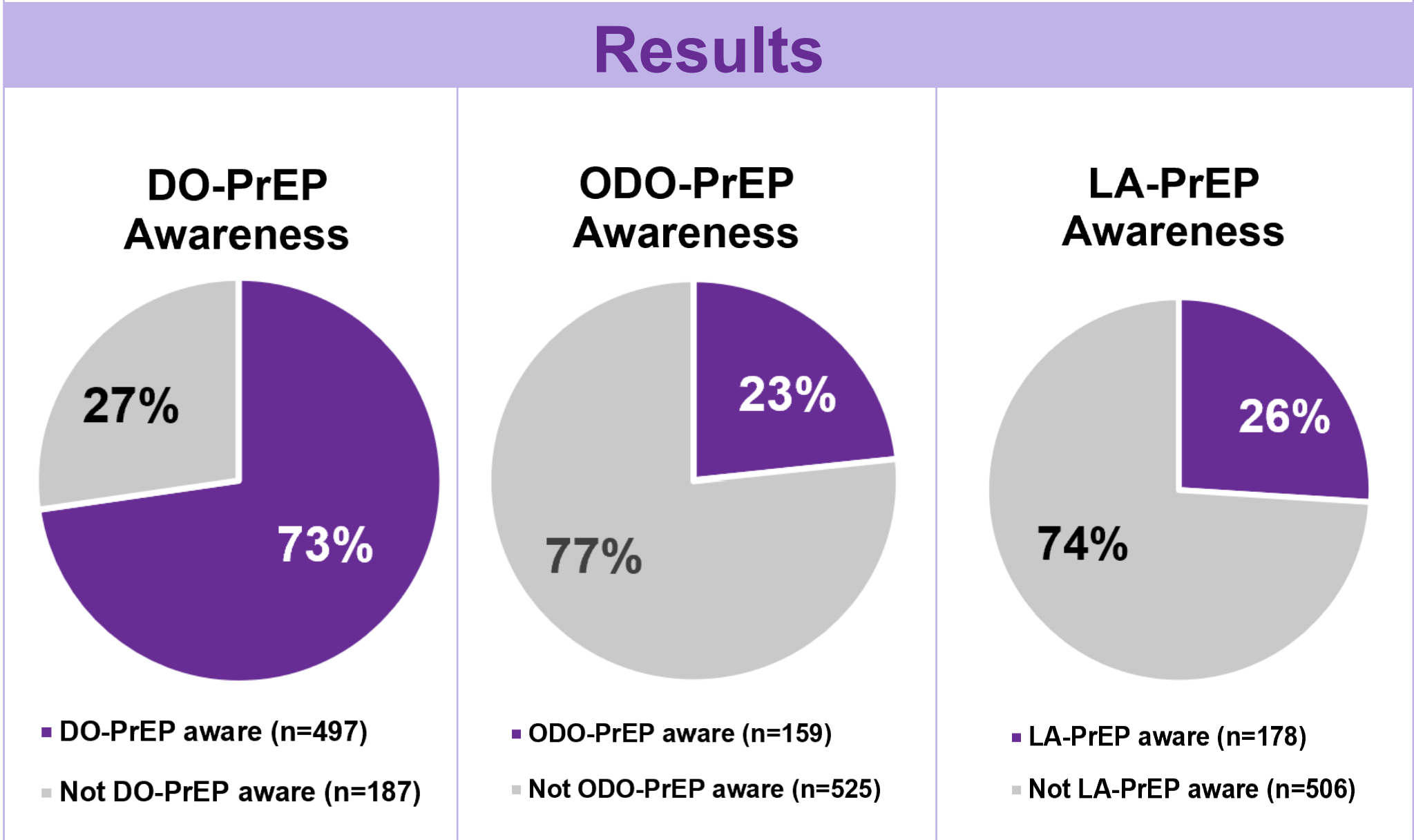
Statistical analysis: A latent class analysis was conducted using eight socio-structural HIV vulnerability indicators, with multinomial logistic regression used to examine characteristics associated with class membership, and pairwise comparisons used to compare between-class prevalence of PrEP willingness and modality preference.

Modality-specific PrEP willingness: willingness to start each PrEP modality: Daily oral [DO], On-demand oral [ODO], Long-acting [LA] injectable.

PrEP modality preference: Among participants willing to use >1 modality, ranking a modality first was considered preference for that modality.

Socio-structural HIV vulnerability indicators:

- Unstable housing
- Food insecurity
- Service denial
- Police discrimination
- Healthcare mistreatment
- Harassment
- Low social capital
- Lack of gender-affirming care (GAC)



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