

The HEAT Syndemic:

A new status neutral framework of the HIV epidemic among transgender women to guide prevention efforts

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NO CONFLICTS

HIV EPIDEMIC AMONG TRANSWOMEN



50 times more likely to be living with HIV globally

estimated **42%** of TGW are living with HIV in the U.S

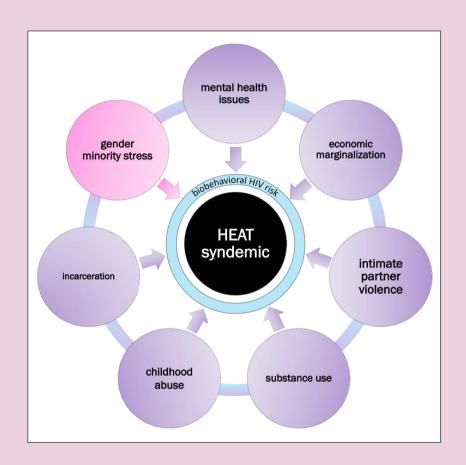
less likely: uptake PrEP receive ART less adherent to ART poorer viral suppression



GAP

frameworks that specifically address unique factors of HIV risk for transwomen to guide intervention on the sustained and complex HIV epidemic

simultaneously addressing both primary and secondary prevention



R36 NIDA

HEAT syndemic

HIV Epidemic Among Transgender women

a new status neutral framework of the HIV epidemic among transgender women to guide prevention efforts

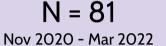
based in: Syndemic Theory Minority Stress Model

established + unique syndemic conditions

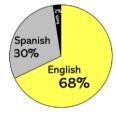
should consider TOGETHER

HEART study

Health & Resilience of Transwomen in Miami



Inclusion: male sex assigned at birth, feminine gender, recent penetrative sex and/or injection behavior

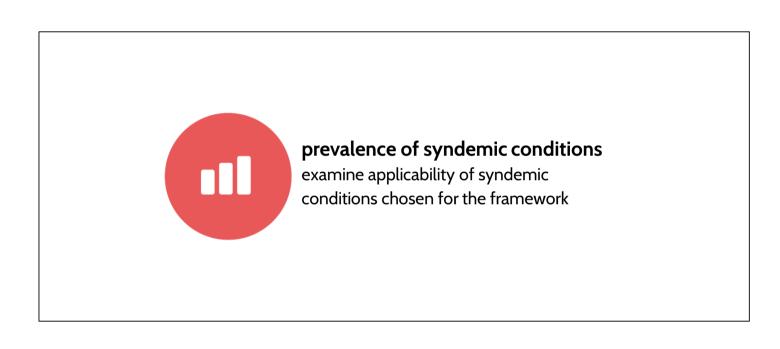


cross-sectional biopsychosocial assessment

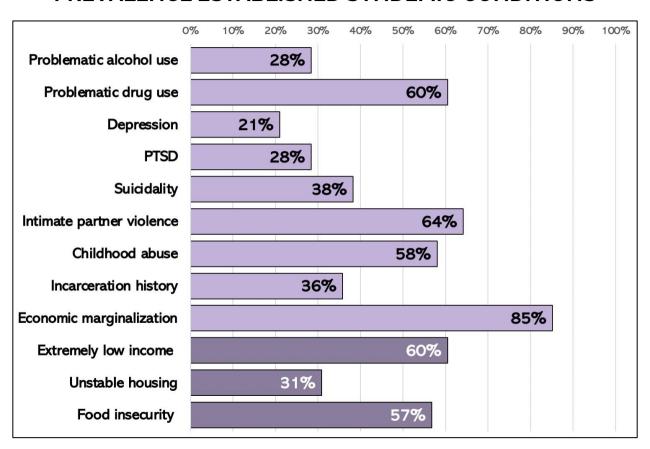
questionnaires on syndemic conditions via CASI **biospecimen collection**: HIV testing, viral load labs

partnered with trans-led CBOs & research staff from community

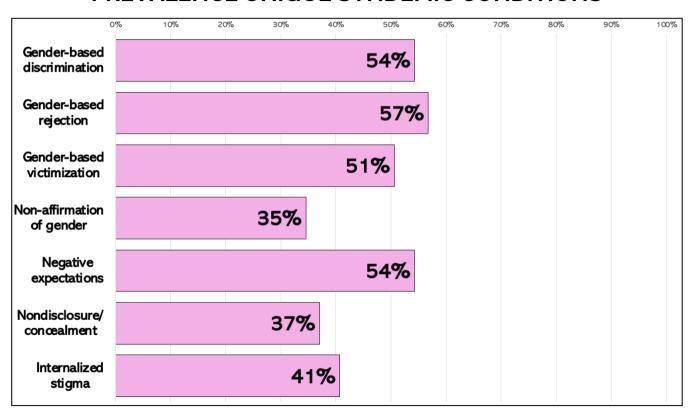
All study procedures received approval from the University of Miami Institutional Review Board (Study# 20191279)

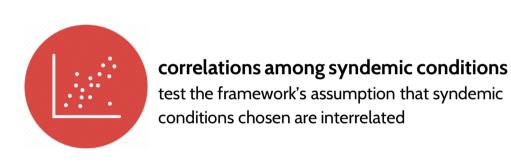


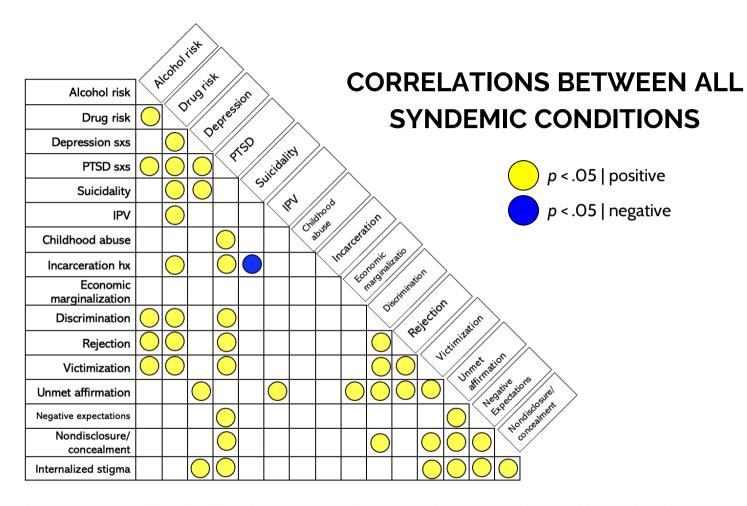
PREVALENCE ESTABLISHED SYNDEMIC CONDITIONS



PREVALENCE UNIQUE SYNDEMIC CONDITIONS





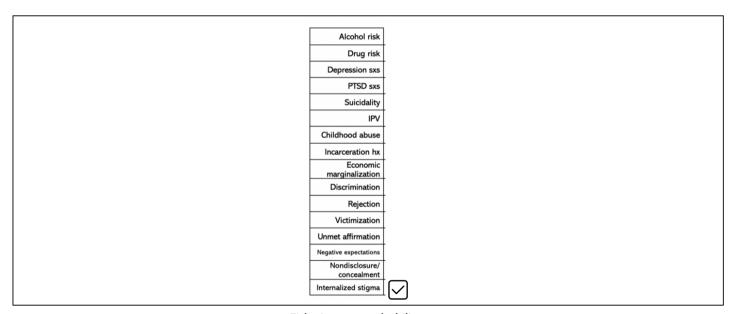




bivariate associations between syndemic conditions and HIV status

check on the appropriateness of proposing the framework as status neutral

DIFFERENCES IN SYNDEMIC CONDITIONS BY HIV STATUS



Fisher's exact probability tests



series of generalized regression models

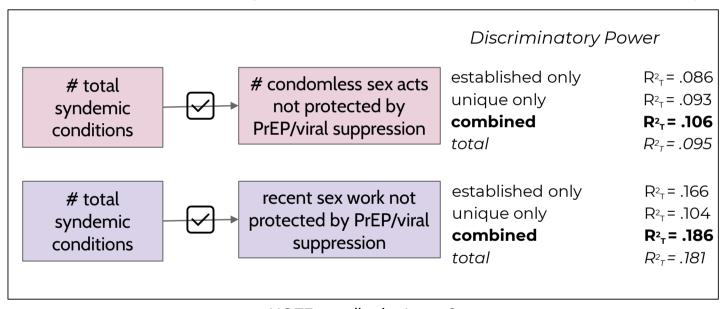
examine association between:

syndemic conditions → biobehavioral HIV acquisition/transmission risk

...as an empirical check on the proposed framework

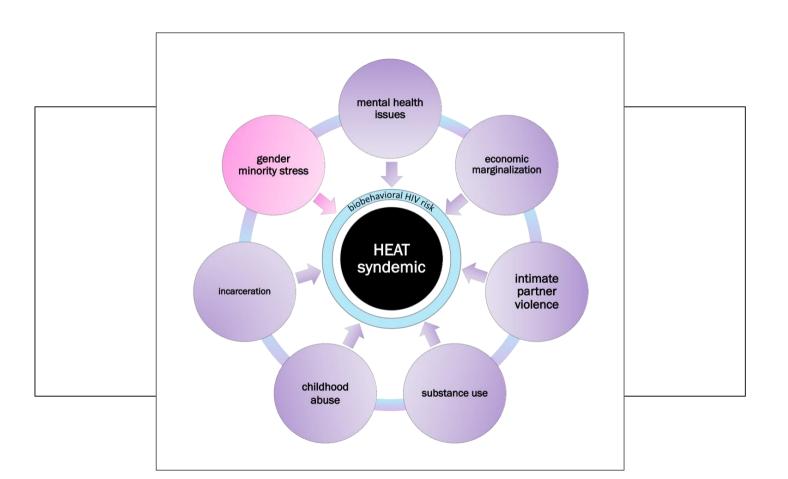
OF SYNDEMIC CONDITIONS PREDICT HIV RISK BEHAVIOR?

model better considering total # vs established and unique separately?

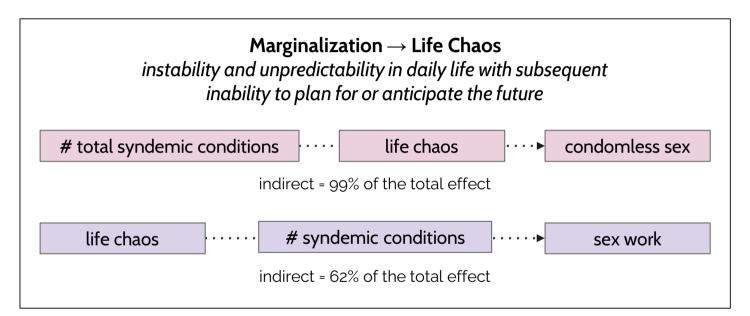


NOTE: needle sharing n=2

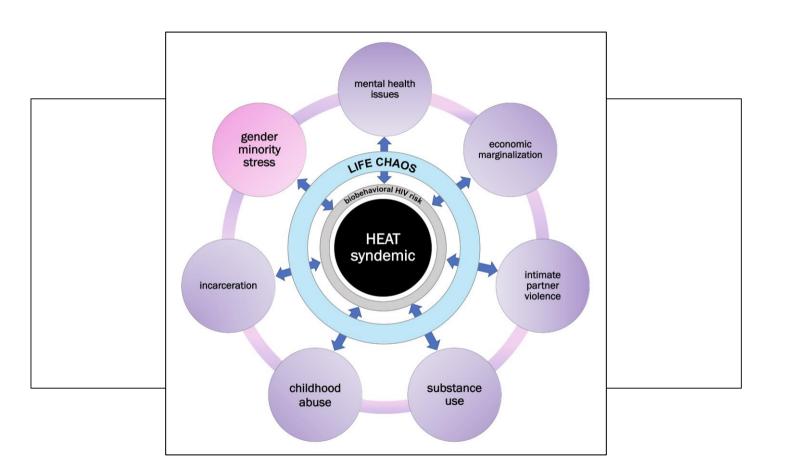
models controlled for race & ethnicity and HIV status no significant covariate effects



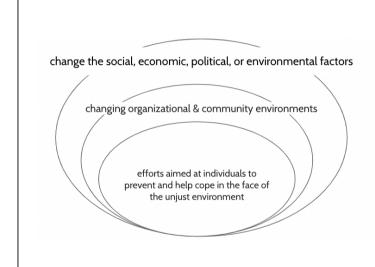
POST-HOC: LIFE CHAOS



causal inference approach



IMPLICATIONS



2025 UNAIDS targets place an emphasis on having "people-centered and context-specific integrated approaches"...

transgender women cannot benefit from HIV interventions if the context of their lives is not addressed.

interventions at the macro-, mezzo- and micro-level are needed

ACKNOWLEDGEMENTS

thank you to all the participants who gave their time, energy, and shared their lived experiences

Nicho Herrera | Norik Kirakosian HPAC Lab | iCARUS Lab | Stevenson Lab | Klatt Lab | Laboratory for Clinical and Biological Studies @ UMMSM

thank you to the community partners who allow me to be a small piece in the amazing work they do







NIDA | R36DA050483 | PI Glynn
Dr. Glynn's time supported by NIAID T32AI007433 | PI Freedberg
NIMH | Miami's Developmental AIDS Research Center [CHARM] | P30MH116867 | PI Safren
NIAID | Miami Center for AIDS Research [CFAR] | P30AI073961 | PI Pahwa

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