ABSTRACT 225: IMPACT OF HIV-RELATED STIGMA ON TREATMENT ADHERENCE: SYSTEMATIC REVIEW AND META-SYNTHESIS

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I have no financial conflicts of interest

Background & Study Objective

- Adherence critical determinant of health outcomes
 - May be contingent upon social forces
- Stigma adversely affects engagement in care
 Mechanisms poorly understood

Objective: Assess the relationship between HIV-related stigma and ART adherence **Operational Definitions of Stigma**

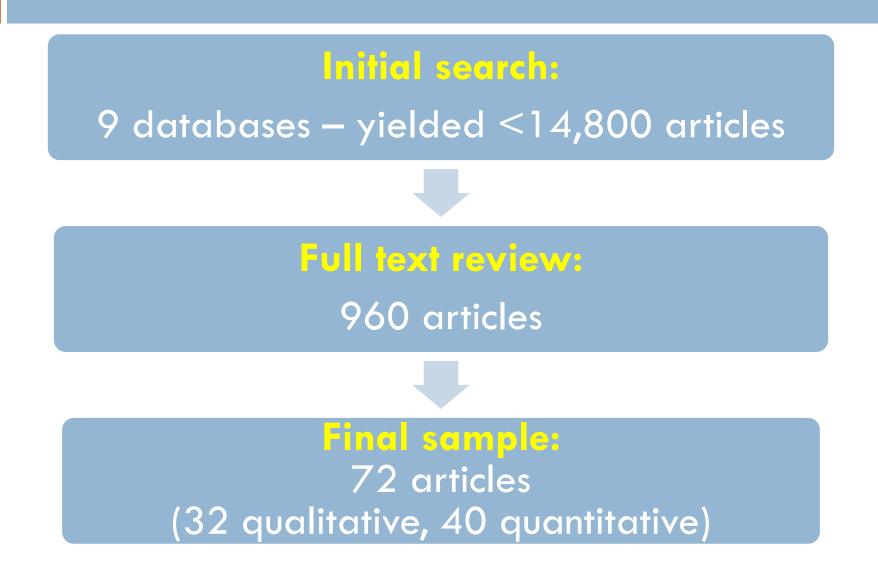
Enacted Stigma

Overt acts of discrimination against HIV-positive person

Internalized Stigma

Accepting as valid these stigmatizing beliefs

Methods - Search Strategy



Methods – Data Synthesis

Qualitative studies: Summarized using meta-synthesis (Noblit & Hare, 1988)

Quantitative studies: Examined patterns in the estimated associations

Results - Qualitative Analysis

- Over 1,200 participants, 26 countries
- Meta Synthesis: identified constructs based on quotes- grouped into themes:
 - 1) Social Support
 - 2) Self-identity
 - 3) Poverty
 - 4) Coping
 - 5) Health Systems

Theme 1: Social Support

Spousal or familial support critical for overcoming stigma and obstacles to care :

"A person without a family is like a single tree struggling for life. My children and my wife are my backbone. Now I have brought changes in myself and want to achieve many things"

> 45 year-old HIV-positive rice dealer in Chennai, India (Tarakeshwar N et al, AIDS Behavior. 2007)

Theme 1 cont: Social Support

HIV illness or treatment could compromised relationships

Concealment and medication side effects contributed to interruptions:

"[ART] has given more side-effects for me such as vomiting, herpes and skin rashes. I have lost my sight in my right eye and my left eye also has poor vision."

> HIV-positive woman from far western Nepal (Wasti SP et al, PLoS One. 2012)

Theme 2: Self-Identity

Norms undercut self-identity and willingness to disclose:

"I often hear my friends speak negatively about people being HIV-positive...What I dislike most is when they call people names like fagot, whore, and junkie. Whenever I go out with them... I don't take my medications. I could never let them know I'm positive."

> HIV-positive African-American woman in Baltimore (Edwards LV et al, Qual Health Res. 2006)

Theme 2 cont: Self-Identity

- Unique stigma for people identifying as: Being part of a sexual minority Acquiring HIV outside of marriage Active illicit substance-users Low self-efficacy made adherence challenging Contrast to participants who accepted
 - status

Theme 3: Poverty

 Poverty and stigma: mutually reinforcing
 Viewed as unproductive members of society and excluded from networks of mutual aid:

"They see it as useless to assist someone who has a shorter time to live. It's like wasting money. Why assist someone who is going to die?"

HIV-positive person living in Dar es Salaam, Tanzania
 O'Laughlin KN, AIDS Behav. 2012

Theme 3 cont: Poverty







Attempt to manage stigma and adhere to ART

Maladaptive coping strategies:
 ART misconceptions and conspiracy beliefs
 Substances further compromised adherence

Theme 4 cont: Coping

- Adaptive coping strategies:
 - Treatment for depression and anxiety
 Acceptance of one's diagnosis
 Spirituality and faith in God:

"I am a Christian and a believer, I know that God exists but those medicines also were inspired by God. God is the one who gave inspiration to doctors to make those medicines for us."

> 59-year-old man from the Democratic Republic of Congo Musumari PM et al, AIDS Care. 2013

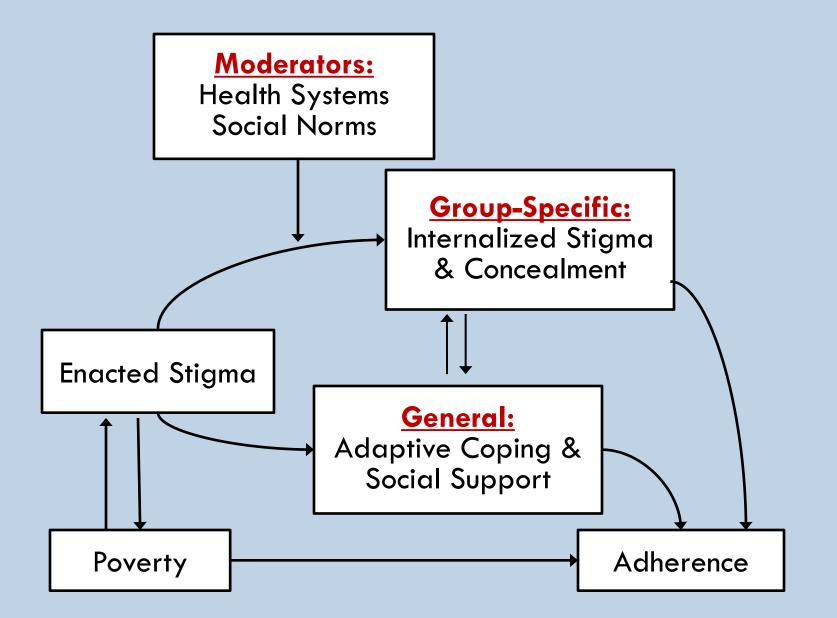
Theme 5: Health Systems

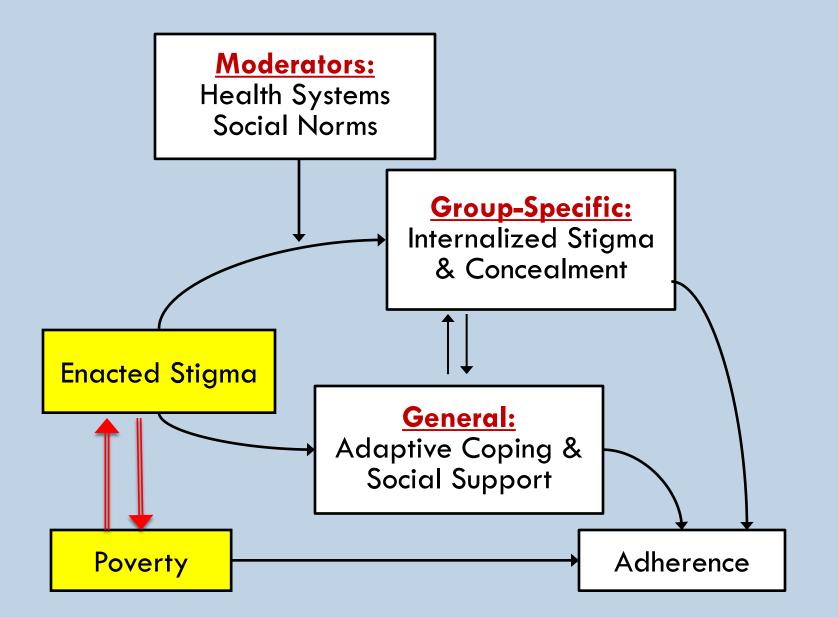
Doctors and nurses established trust
 Empowered patients to overcome stigma

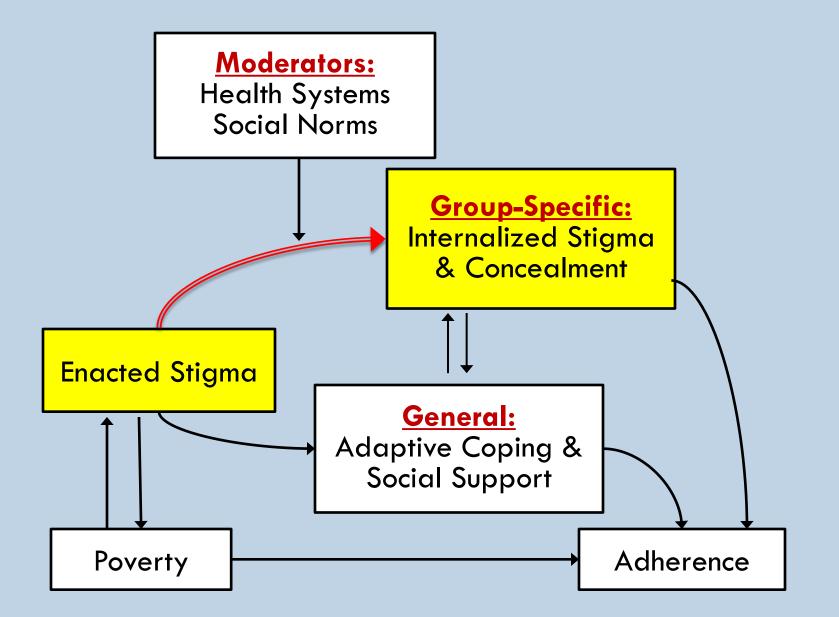
Family-driven treatment programs

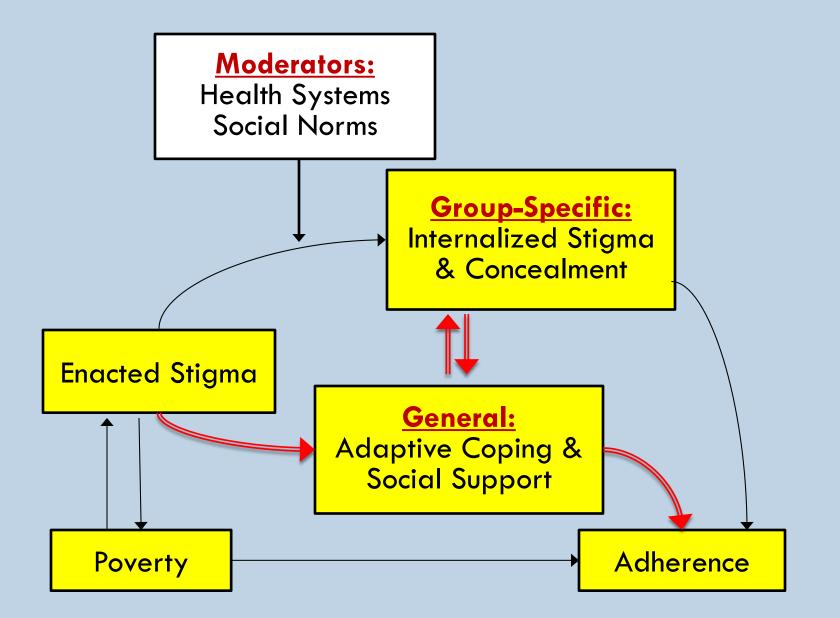
Quantitative Analysis

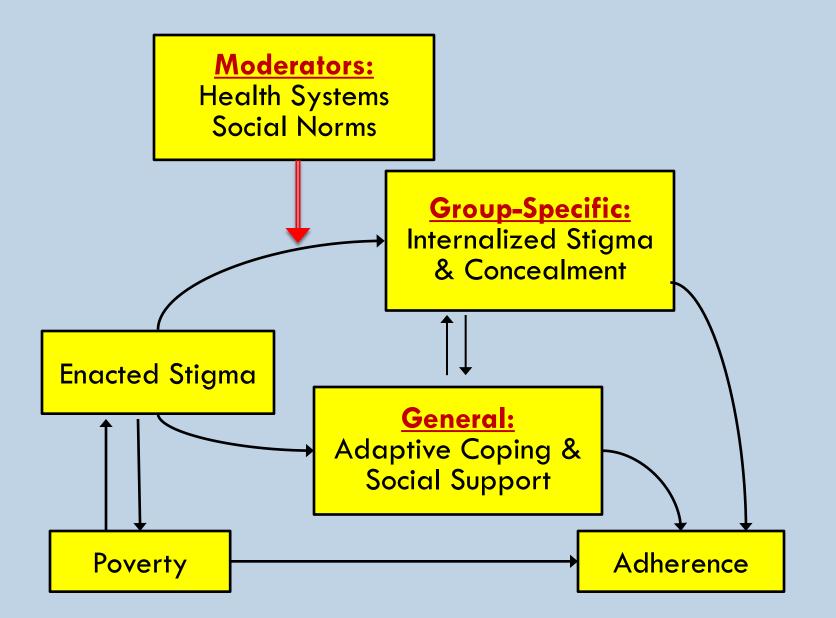
- 34 cross-sectional & 6 longitudinal
 - >24,700 participants in 18 countries
- 60% showed stigma worsened ART adherence
- Association mediated by:
 - Self-efficacy
 - Mental health
 - Family function













HIV-related stigma compromised ART adherence by undermining social support and adaptive coping

Reflects centrality of social integration

Implications for Interventions

- Effects of stigma operate at multiple levels:
 - Intrapersonal
 - Interpersonal
 - Structural
- Interventions could fail to address larger social forces
- Multifaceted interventions would likely yield greatest impact

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