



**THE NIMH DIRECTOR'S
INNOVATION SPEAKER SERIES
2020-2021**

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INNOVATION

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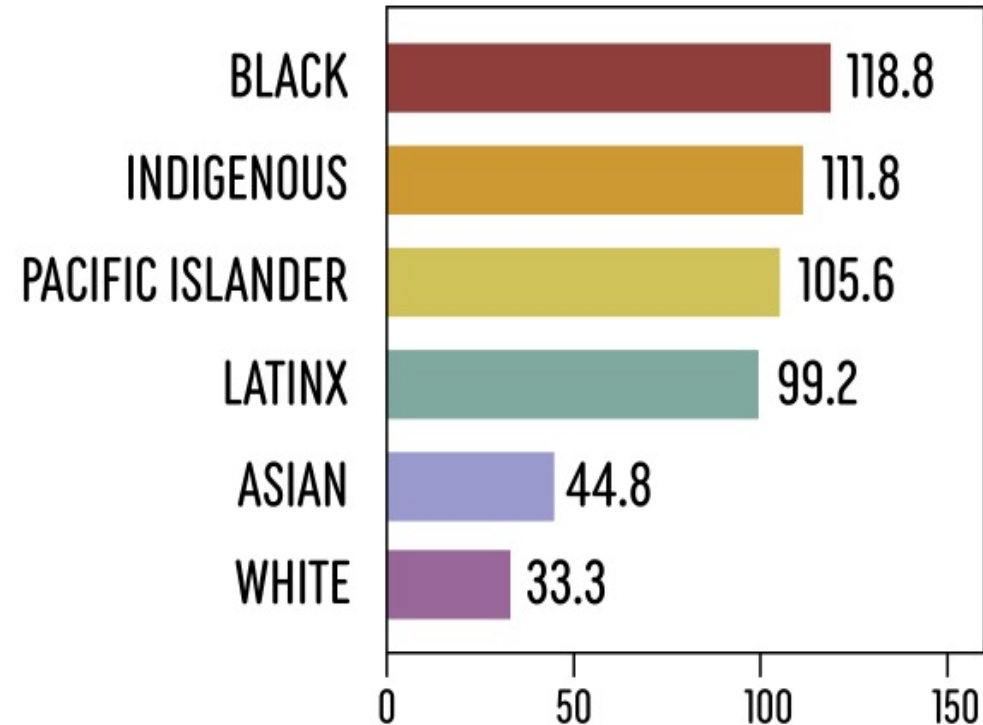
**ADDRESSING ETHNORACIAL
DISPARITIES IN MENTAL
HEALTH RISK, ASSESSMENT,
AND SERVICE DELIVERY**

Takeaway

Causes & pathways of ethnoracial disparities in mental health (MH) are complex

Multi-level studies and strategies are needed to address disparities in:

- Risk of mental disorders
- Access to and use, quality & outcomes of MH care



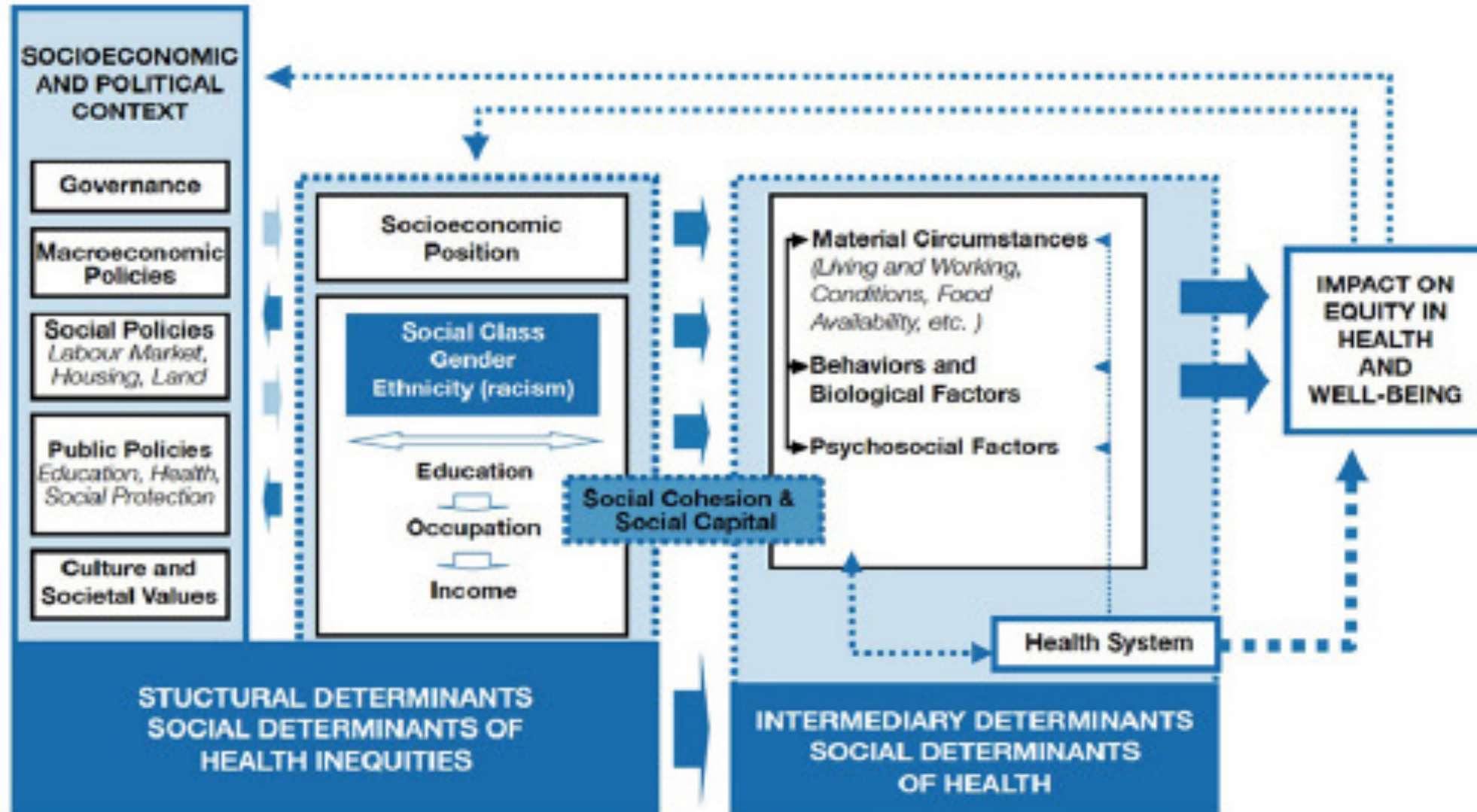
AGE-ADJUSTED COVID-19 DEATHS
PER 100,000 AMERICANS THROUGH AUG 18, 2020

Outline

- Conceptual basis of disparities
- Promising topics for research on disparities in MH:
 - I. Risk
 - II. Assessment
 - III. Service access & delivery

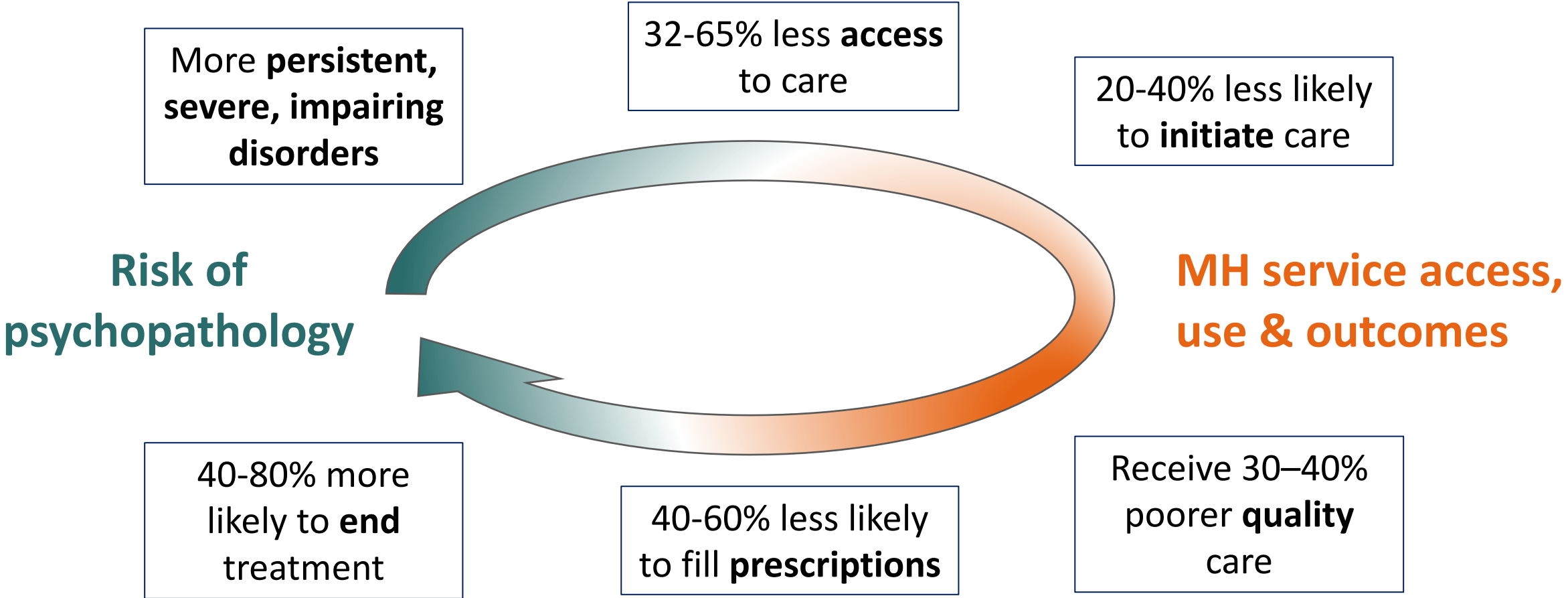
Health disparities are preventable and unjust differences in health status, outcomes, and burden of disease that adversely affect socially disadvantaged populations

Multi-Level Causes & Pathways of Disparities



Disparities in MH & MH Care Continuum

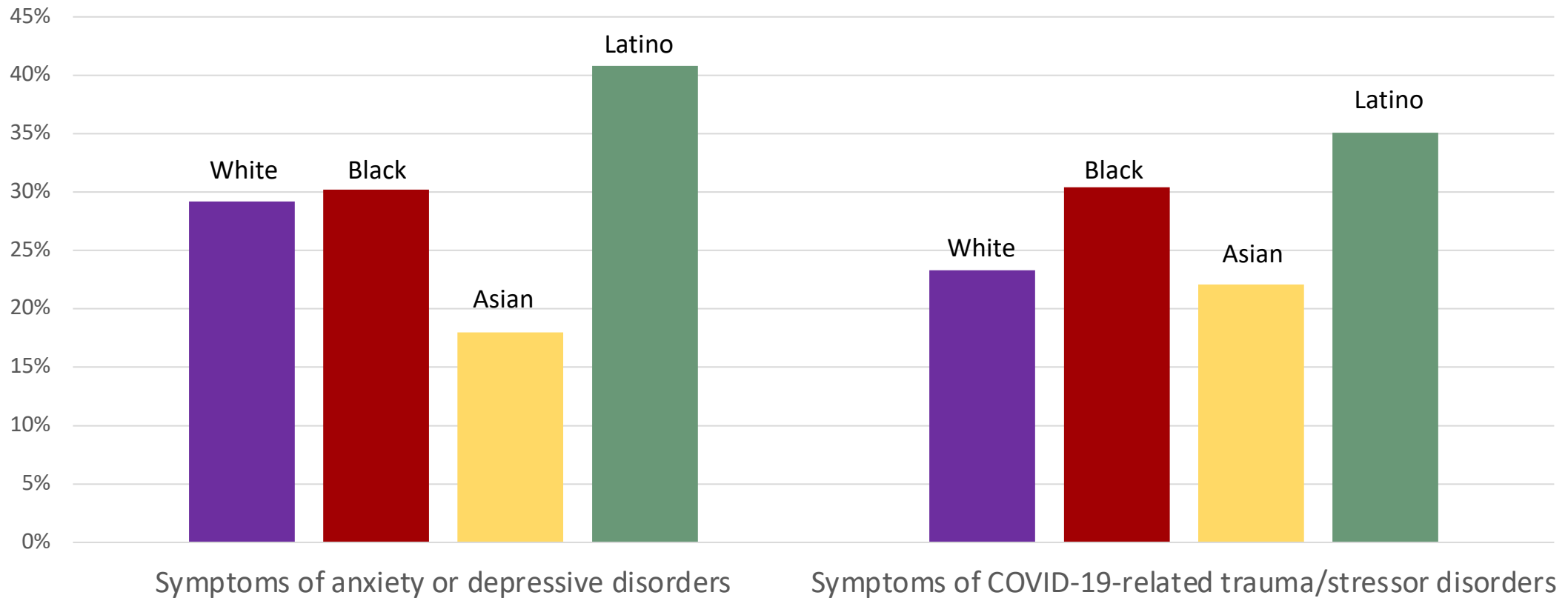
Black, Indigenous and People of Color (BIPOC) individuals...



AHRQ 2019; Aggarwal et al., 2016; SAMHSA, 2018; US Office of Minority Health 2018; Vilsaint et al. 2019

Complex Ethnoracial Disparity Patterns

Prevalence of Adverse Mental Health Outcomes April-June 2020 (N=5,470)



Research Areas

1

Mental Health
Risk

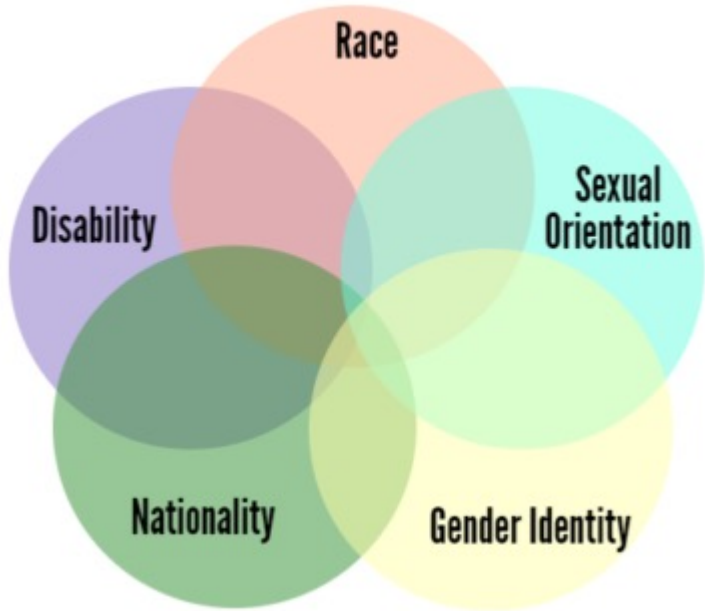
2

Mental Health
Assessment

3

Mental Health
Service Access &
Delivery

Mental Health Risk



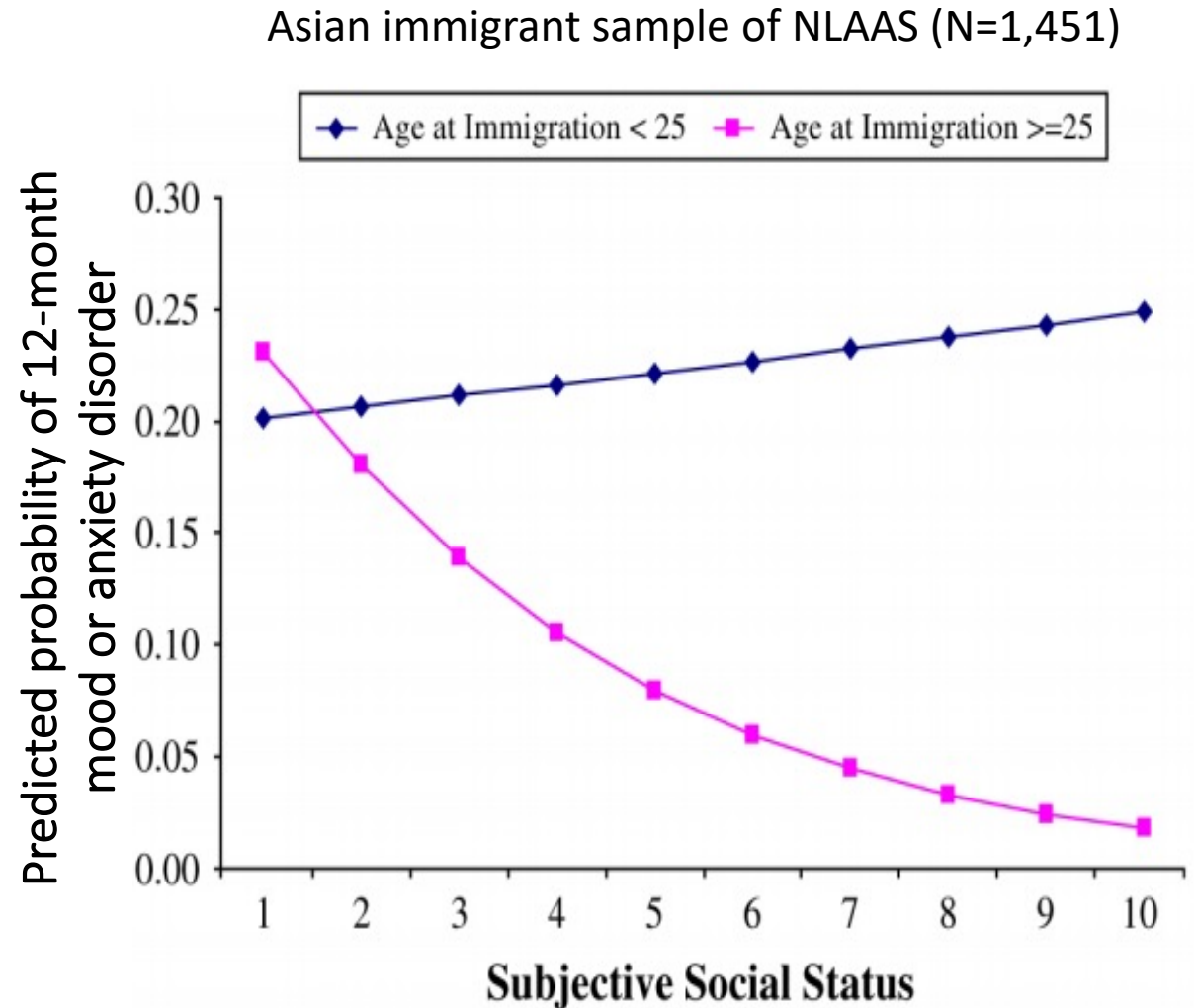
Intersectionality

Subjective appraisal

Societal structure

Intersectionality

- Simultaneous impact of multiple aspects of identity & social position
- Emergent effects
- Compounds & modifies risk/protective factors
- Helps explain intra- and inter-group disparities



Methods to Examine Intersectionality

- Regressions – Interactions, group stratification, intersection terms
- Trajectories & critical periods over the life course
- Network analysis
- Typologies derived from latent class models
- Decomposition analysis

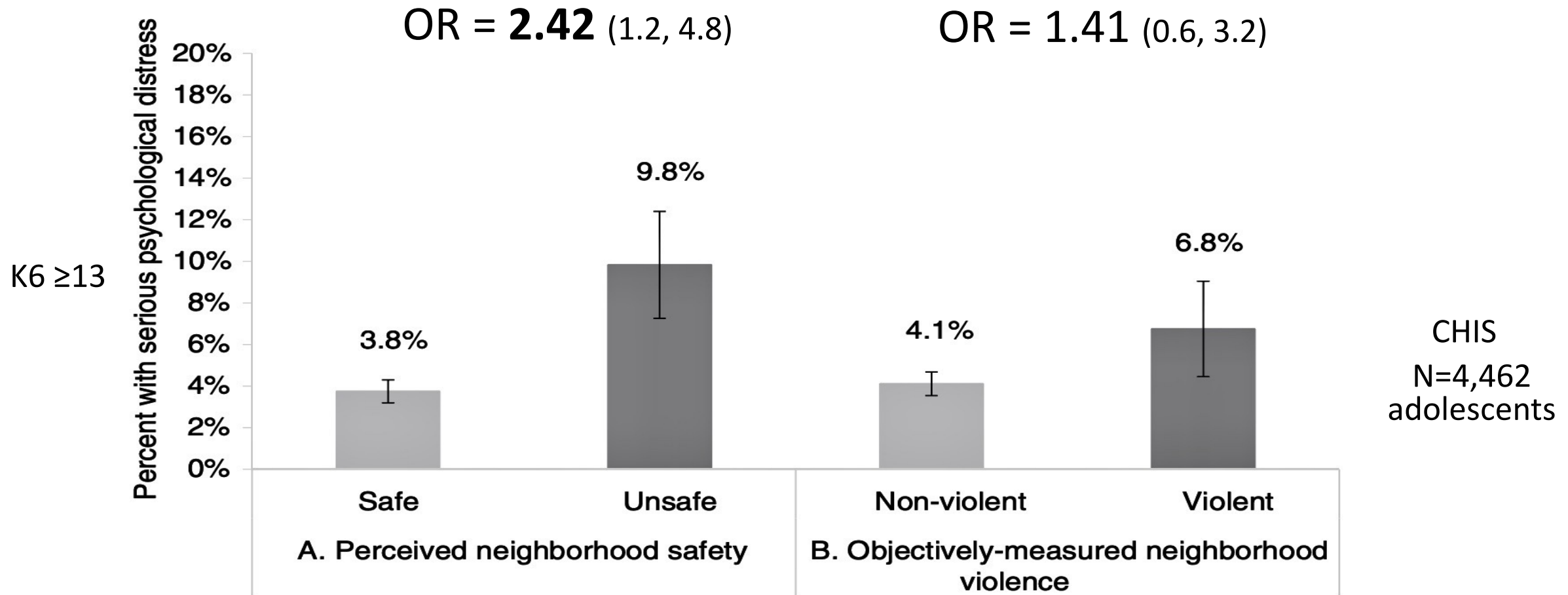
Subjective Appraisal

- Person's own interpretation of experience affecting how they respond
- Modify impact of objectively assessed stressors



- Helps explain intra- & inter-ethnoracial group variability in association between objective measures of adversity and MH disparities

Subjective Appraisal vs. Objectivity



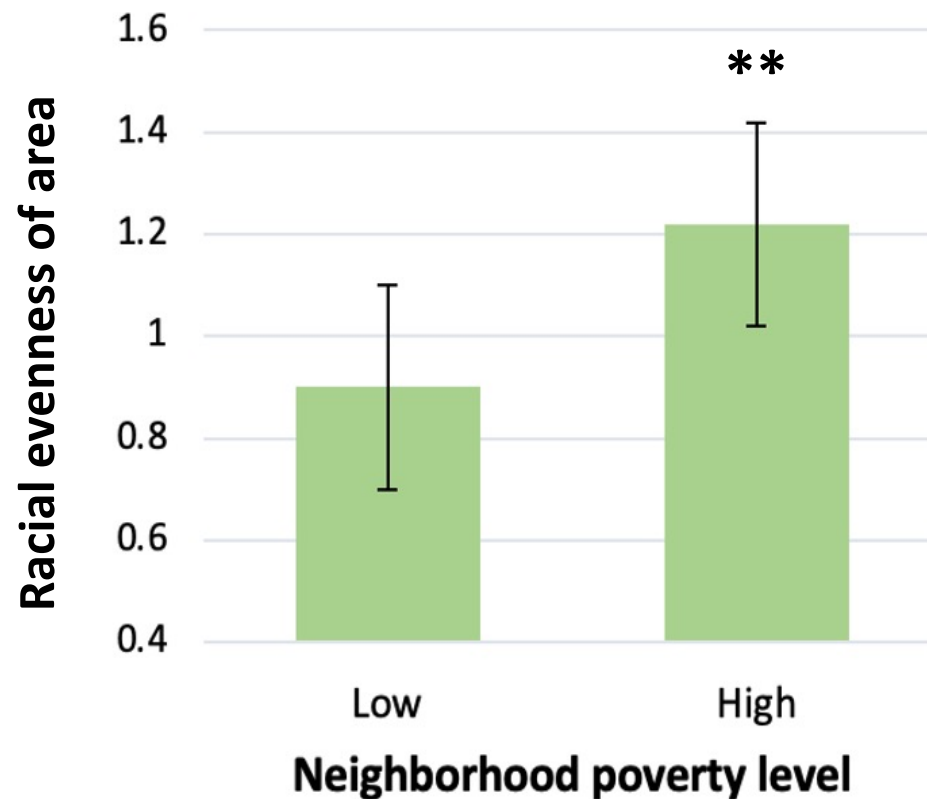
Societal Structure

- Ways societies are organized
 - Foundational social forces (e.g., laws)
 - Built environment (e.g., transportation)
 - Social environment (e.g., social contact)
- Key role of structural racism
 - E.g., racialized residential segregation
- Helps explain impact of social position on intra- & inter-group disparities



Racialized Residential Segregation

Probability of serious psychological distress



N=16,461 Blacks

K6 \geq 13

NHIS

*p<.05

Understanding Mechanisms of Disparities in Risk

- Longitudinal multi-level examinations in diverse populations
- Need population-level designs and tailored approaches
- Expand beyond symptoms to examine disorders
- Innovative methods to examine intersectionality
- Examine intergenerational effects

Research Areas

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Risk

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Assessment

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Mental Health
Service Access &
Delivery

Mental Health Assessment



**Person-centered
contextual
assessment**



**Communication
and implicit bias**

Person-Centered Contextual Assessment

- Includes a person's wants, needs, abilities & circumstances
- From perspective of person & significant others
- Obtains information on intersectionality, appraisal & societal structure
- Complements generic assessment in research and clinical work

Complements Usual Assessment Formats

Generic

Intersectionality

- Demographic indicators

Appraisal

- Symptom experience

Structure

- Living arrangements
- Food insecurity

Person-centered

Intersectionality

- Most relevant aspects of own identity

Appraisal

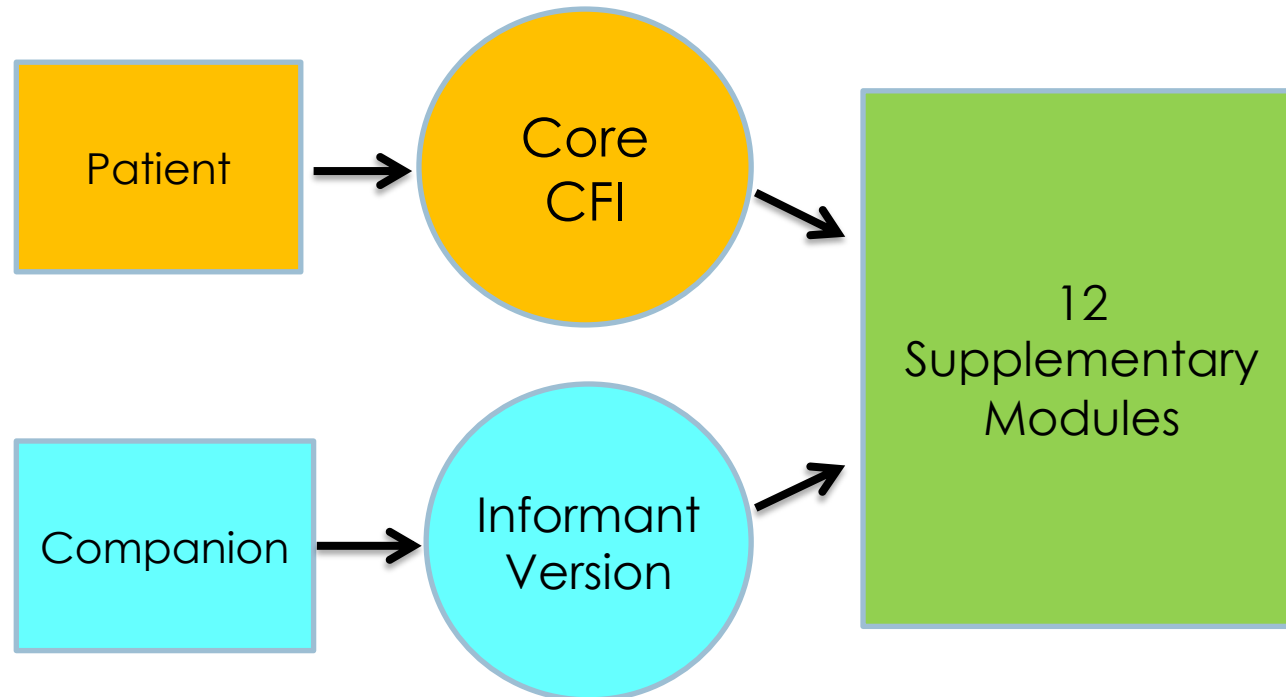
- Most troubling aspects of problem
- Own experiences of discrimination

Structure

- Perceived barriers to care
- Scared to walk in neighborhood

DSM-5 Cultural Formulation Interview

- Sociocultural assessment for evaluation & treatment planning
- Based on Cultural Formulation framework
- Three components:



Cultural Formulation Interview Domains

1. CULTURAL DEFINITION OF PROBLEM

- A. Person's definition of problem

2. CULTURAL PERCEPTIONS OF CAUSE, CONTEXT, AND SUPPORT

- B. Causes
- C. Stressors and supports
- D. Role of cultural identity

3. CULTURAL FACTORS AFFECTING COPING AND HELP SEEKING

- E. Self-coping
- F. Past help-seeking
- G. Barriers to help-seeking

4. CURRENT HELP SEEKING

- H. Preferences
- I. Clinician-patient relationship

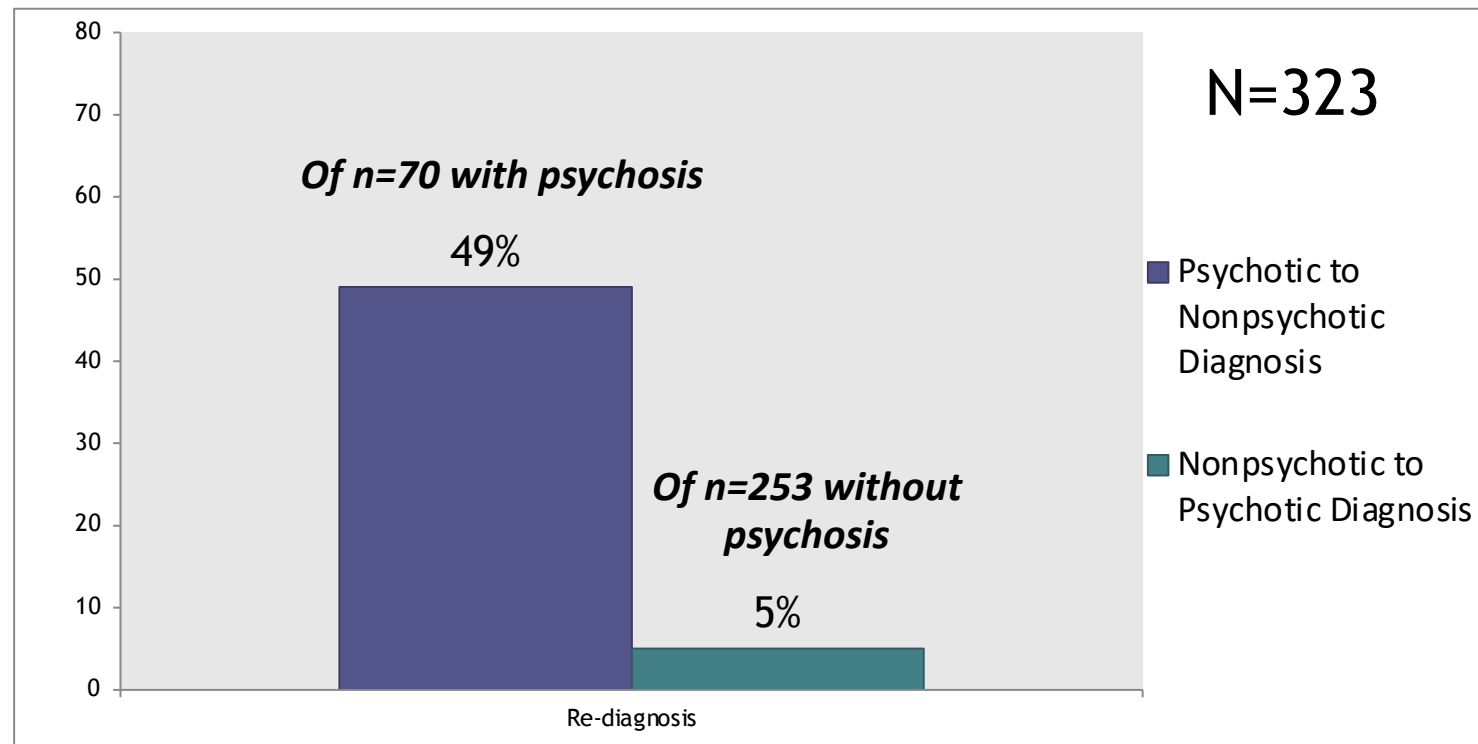
Research on CFI

- DSM-5 Field Trial found CFI:
 - Feasible, acceptable & useful
 - Enhanced rapport, communication & expressions of caring
- CFI advances cultural competence of psychiatric trainees



Research on Cultural Formulation

- Improves accuracy & completeness of diagnostic evaluation



Variation in Experience of Distress

DSM-5 diagnoses

Major Depression

GAD

PTSD

Panic Disorder

Schizophrenia

Other Specified Dissociative D/o

Conversion Disorder

Borderline Personality D/o

Latinx Caribbean concepts of distress

Ataques de nervios

Altered perceptions

Suffer from nerves

Be sick with nerves

Be *loco*

Have *facultades*

Suffer from a demon

Be nervous since childhood

Poor Communication & Implicit Bias

- Affect clinicians seeing BIPOC patients
- Associated with lower quality of care & patient disengagement
- May respond to intervention

**African
American
Children**



**European
American
Children**



**pleasant
words**

smile

**unpleasant
words**

disaster

Implicit Association Test

Future Directions for MH Research

Understanding & Eliminating Disparities in Assessment

- Association btw implicit bias, observed clinician behavior & patient outcomes
- Impact of sociocultural assessment on longitudinal patient outcomes
- Best implementation strategies in routine care
- Longitudinal effects of clinician training
- Test alternative approaches for improving clinician behavior

Research Areas

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Disparity-Reduction Strategies in MH Services

1. Engaging with Communities

2. Tailoring for a Specific Subgroup

3. Leveraging Technology to Reduce Disparities

4. Improving Patient-Provider Communication

5. Intervening on Social Inequities

Engaging with Communities

- **1° targets:** intersectionality, appraisal, structure, &/or communication/bias
- **Approaches:**
 - Be aware of multiple forces at all levels
 - Invest in community participation
 - Prioritize community MH & social outcomes
- **Key areas:**

Multi-sector collaborative care	Criminal justice
Early psychosis interventions	Global mental health
School-based interventions	MH promotion & secondary prevention
Homeless services	

Community Partners in Care

- **Problem:** limited access to MDD care in low-income communities
- Multi-sectoral coalition-building to ↑ use of collaborative care services
- Coalition co-led, implemented, monitored MDD services
- RCT vs. program-level implementation of toolkit & technical assistance
 - 95 programs, N=1018 (predominantly BIPOC and low income)
 - At 6 months: improved clinically & community-defined outcomes
 - At 4 years:

Indicator	CEP vs. RS	OR
≥3 chronic medical conditions		0.46
Clinical remission		1.73
Community-defined remission		2.43

Tailoring for a Specific Subgroup

- **1^o target:** intersectionality
- **Approach:** tailoring services for a specific community subgroup
- Typically organized around aspects of identity or structural position
 - E.g., faith-based, schools, criminal justice system, homeless programs
- Leverage subgroup commonalities to address disparities

Church-Based MH Services

- **Problem:** Blacks w/MDD: 30-50% as likely as Whites to receive treatment
- Value of screening & referral services in faith-based settings
- Screening in 3 NYC churches (N=122)
 - 20% probable MDD (PHQ-9 \geq 10)
 - But no participant accepted MH treatment referral
- Currently funded NIMH R01
 - Cluster-randomized clinical trial of SBIRT vs. Enhanced Usual Care
 - Church-based Community Health Workers (CHWs) are interventionists
 - Outcomes: Treatment engagement, quality of life, MDD symptoms
 - Mixed-methods process evaluation of screening/referral facilitators & barriers

Leveraging Technology to Reduce Disparities

- **1^o target:** structural barriers and appraisal
- **Approach:** facilitating remote access/engagement in services & self-help
- Modalities:
 - Telemental health: remote delivery of traditional MH services
 - Technology-mediated self-help: on-demand interactive applications / websites
 - Technological adjuncts: enhance interventions (e.g., reminders, virtual reality)
- Clinically effective & can reduce logistical barriers, stigma
- Digital divide

Text Messaging to Increase CBT Engagement

- **Problem:** Poor BIPOC engagement in CBT, limiting effectiveness
- Automated text messaging to ↑ engagement/CBT effect in Latinx w/ MDD
- RCT of 16-session group CBT for MDD with/without text messaging adjunct

Engagement measure	Intervention N=45	Control (N=40)	p-value
Mean time in CBT (wks)	13.5	3	.03

- Self-rated mood via text:
 - Correlated significantly with PHQ-9
 - Significantly predicted next-day CBT session attendance

Improving Patient-Provider Communication

- **1^o targets:** patient appraisal, clinician bias & dyadic communication
- **Approach:** enhancing communication content & context
 - Content: exchange of ideas about illness and treatment
 - Context: interpersonal/situational influences affecting this exchange
- Examples of patient concerns:

Content

- MH services not useful or inappropriate
- Stigma

Context

- Discordant communication styles
- Discomfort discussing emotions w/ strangers

DECIDE

- **Problem:** Poor participatory nature of BIPOC MH txt → poor care/outcomes
- Training to enhance patient activation & shared decision making
 - Patient: 3 coaching sessions to identify own priorities & ask questions of clinician
 - Clinician: workshop + up to 6 coaching calls to address patient's questions

Patient + clinician coaching
4-arm RCT, N=312 patients, 74 clinicians

Outcome	Cohen's <i>d</i>	p-value
Any clinician coaching on blinded-coder shared decision making	0.29	<0.05
Maximal clinician coaching on blinded-coder SDM	0.78	0.001
Maximal patient + clinician coaching on patient quality of care	0.62	<0.05

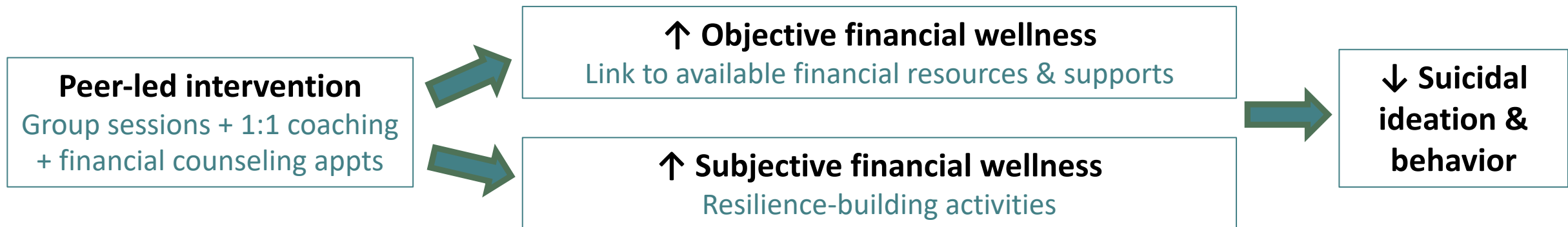
Intervening on Social Inequities

- **1^o target:** structural factors
- **Approach:** connect person to resources
 - E.g., access to housing, education, employment, financial resources, insurance
- Partner with stakeholders to identify best intervention targets
- Assess mechanisms & process factors
- Include longitudinal evaluation & sustainability

From Hardship to Hope

- **Problem:** High objective financial hardship in BIPOC & → suicide-related outcomes
Elevated suicidal ideation & attempts in some BIPOC groups
- Financial empowerment intervention to ↓ suicidal ideation & behavior
- Addresses suicide risk by targeting non-clinical economic determinants

Mechanisms of action in pilot trial



Future Directions

Understanding & Eliminating Disparities in Service Access & Delivery

- Research on implementation strategies to:
 - Reconcile community & academic views of 1^o targets for intervention
 - Identify optimal partnership structures for multi-sector collaboration
 - Address diversity of risk within population-wide interventions
 - Assemble parsimonious but multi-level intervention packages
 - Balance scalability & effectiveness in early intervention designs

Conclusions

- Causes & pathways of ethnoracial disparities are complex
 - Affected by intersectionality, appraisal, societal structure & communication/bias
- Need research designs in partnership with communities that:
 - Are longitudinal, multi-level, and multi-sectoral
 - Target community + individual and objective + subjective factors
- Tailor interventions & implementation strategies to specific contexts
 - Assess mechanisms & processes to guide replicability & sustainability
- Implement what is known, fill knowledge gaps & iteratively reassess

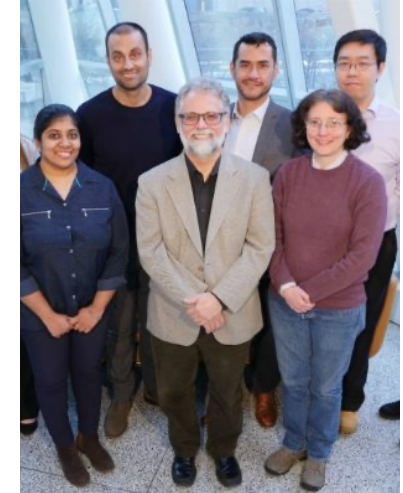
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