

Ohio Cardiovascular and Diabetes Health Collaborative





Cardi-OH ECHO Your Patient with Diabetes at Risk for Heart Disease: A Series of Case Discussions

October 28, 2021

Cardi-OH ECHO Team and Presenters

FACILITATOR

Goutham Rao, MD Case Western Reserve University

LEAD DISCUSSANTS

Karen Bailey, MS, RDN, LD, CDCES Ohio University

Jim Werner, PhD Case Western Reserve University

DIDACTIC PRESENTER

Adam Perzynski, PhD Case Western Reserve University

CASE PRESENTERS

Angelique Bermudez, CNP Heart of Ohio Family Health

Mohammad Shalabe, MD University of Toledo Comprehensive Clincis



Disclosure Statements



- The following planners, speakers, and/or content experts of the CME activity have financial relationships with commercial interests to disclose:
 - Marilee Clemons reports receiving consulting fees from Novo Nordisk.
 - Kathleen Dungan, MD, MPH reports receiving consulting fees from Eli Lilly, Novo Nordisk and Boehringer, research support from Sanofi, Viacyte, and Abbott and presentation honoraria from UpToDate, Elsevier, ACHL, and CMHC.
 - Adam T. Perzynski, PhD reports being co-owner of Global Health Metrics LLC, a Cleveland-based software company and royalty agreements for book authorship with Springer Nature publishing and Taylor Francis publishing.
 - Christopher A. Taylor, PhD, RDN, LD, FAND reports grant funding for his role as a researcher and presenter for Abbott Nutrition and grant funding for research studies with both the National Cattleman's Beef Association and the American Dairy Association Mideast.
 - Jackson T. Wright, Jr., MD, PhD reports receiving fees for serving as an advisor to Medtronic.
 - These financial relationships are outside the presented work.
- All other planners, speakers, and/or content experts of the CME activity have no financial relationships with commercial interests to disclose.

Person-Centered Language Recommendations

The ADA and the APA recommend language that emphasizes inclusivity and respect:

- <u>Gender</u>: Gender is a social construct and social identity; use term "gender" when referring to people as a social group. Sex refers to biological sex assignment; use term "sex" when referring to the biological distinction.
- <u>Race</u>: Race is a social construct that is broadly used to categorize people based on physical characteristics, behavioral patterns, and geographic location. Race is not a proxy for biology or genetics. Examining health access, quality, and outcome data by race and ethnicity allows the healthcare system to assist in addressing the factors contributing to inequity and ensure that the health system serves the needs of all individuals.
- <u>Sexual Orientation</u>: Use the term "sexual orientation" rather than "sexual preference" or "sexual identity." People choose partners regardless of their sexual orientation; however, sexual orientation is not a choice.
- **<u>Disability</u>**: The nature of a disability should be indicated when it is relevant. Disability language should maintain the integrity of the individual. Language should convey the expressed preference of the person with the disability.
- <u>Socioeconomic Status</u>: When reporting SES, provide detailed information about a person's income, education, and occupation/employment. Avoid using pejorative and generalizing terms, such as "the homeless" or "inner-city."

Flanagin A et al., 2021, JAMA; Dickinson JK et al., Diabetes Care, 2017; American Psychological Association, 2021; ODM, 2021.



Impact on Minority Populations



Adam Perzynski, PhD

Associate Professor of Medicine and Sociology Center for Health Care Research and Policy

The MetroHealth System

Case Western Reserve University

Learning Objectives



- Describe the impact of hypertension and type 2 diabetes upon minority populations in the U.S.
- List and describe key factors driving cardiovascular risk and heart disease in minority populations.
- Describe what is known about culturally sensitive approaches to heart disease prevention in minority populations.

Disparities Span the Continuum of Diabetes

> Detection Diagnosis

Prev & nce

Severity

Self Management

Clinical nent

Hypo/hyperglycemic events

Glycemic Control

Complications

CARDI•OH Ohio Cardiovascular and Diabetes Health Collaborative

Cardiovascular events cular

1. Promoting Health and Reducing Disparities in Populations

Diabetes Care 2017;40(Suppl. 1):S6-S10 | DOI: 10.2337/dc17-S004

TAILORING TREATMENT TO REDUCE DISPARITIES

Recommendations

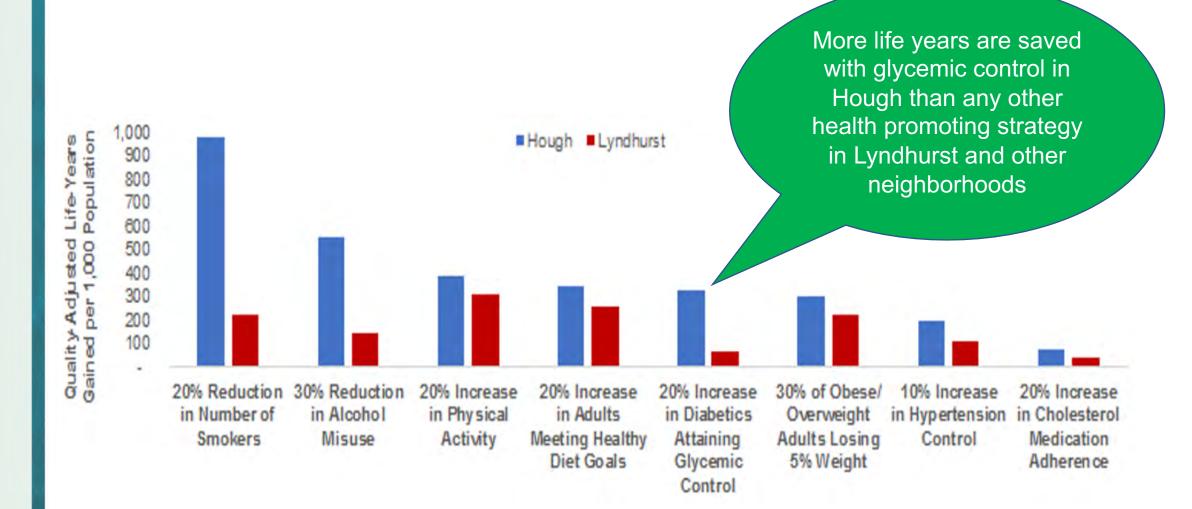
- Providers should assess social context, including potential food insecurity, housing stability, and financial barriers, and apply that information to treatment decisions. A
- Patients should be referred to local community resources when available. B
- Patients should be provided with selfmanagement support from lay health coaches, navigators, or community health workers when available. A

Mortality

Improvements in Glycemic Control and Self-Management Behaviors can have Massive Consequences for Population Health

Unpublished simulation analysis from Taksler, Dalton and Perzynski using data on 3 million outpatients in Northeast Ohio.







Root Causes

"The 5 Whys"

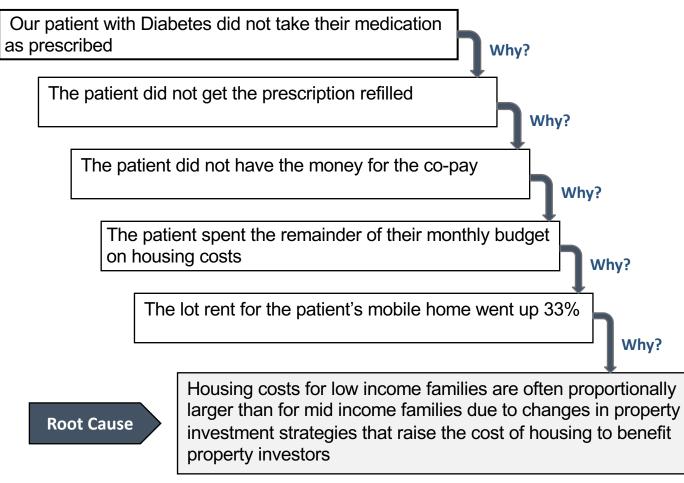
Health Care Provider-Patient Communication

Non-Medical Health Related Social Needs

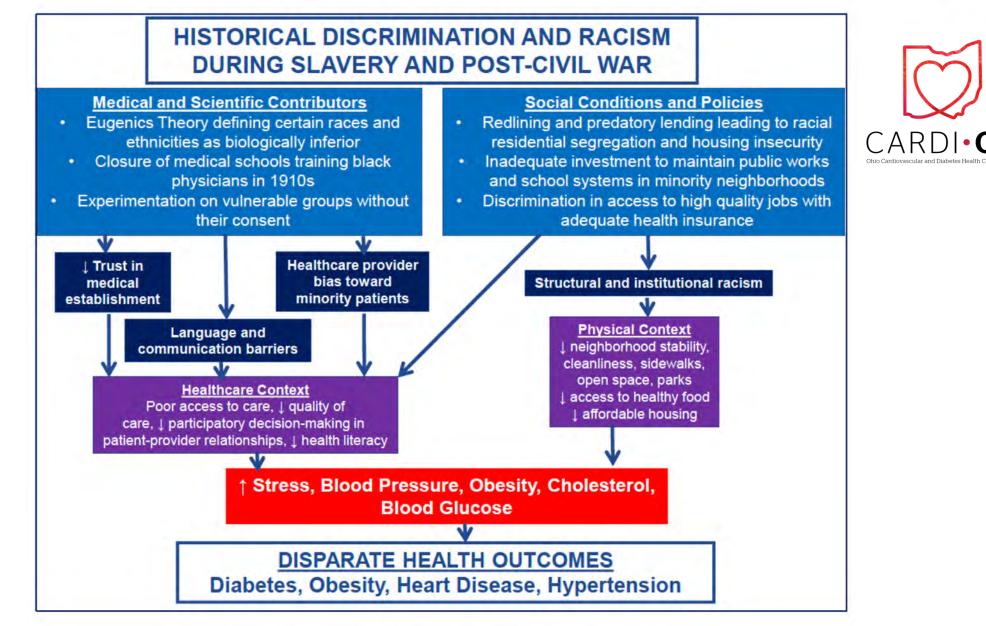
Cultural Humility/Implicit Bias/Discrimination



5 Whys (example)



<u>Caution</u>: If your last answer is something you cannot control, go back up to previous answer



Golden SH, Joseph JJ, Hill-Briggs F. Casting a health equity lens on endocrinology and diabetes. The Journal of Clinical Endocrinology & Metabolism. 2021 Apr;106(4):e1909-16.



Root Causes

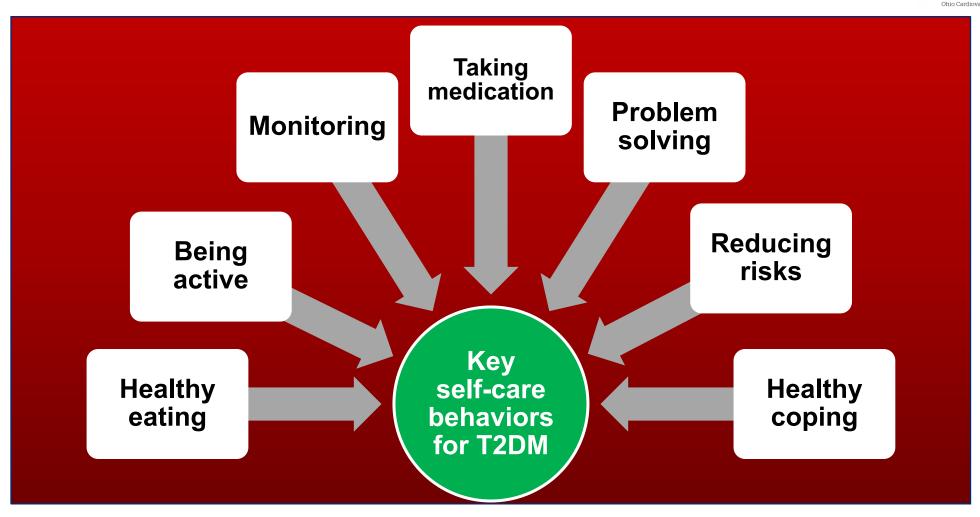
"The 5 Whys"

Health Care Provider-Patient Communication

Non-Medical Health Related Social Needs

Cultural Humility/Implicit Bias/Discrimination

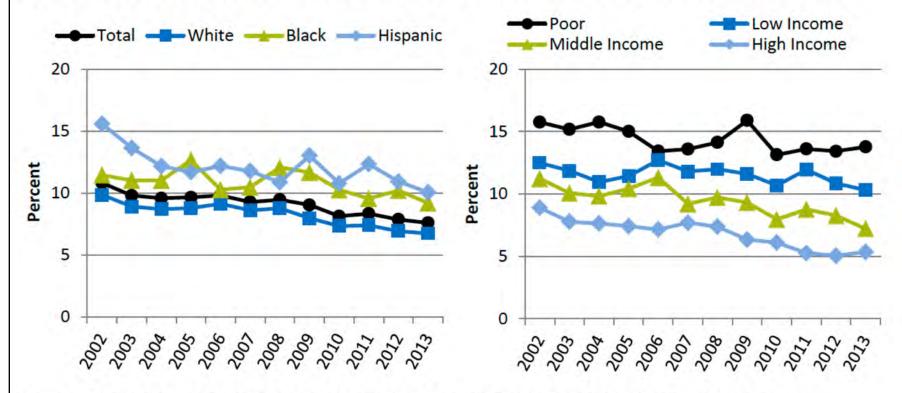
Self-Management Is Essential to Optimizing Health for Individuals With Chronic Conditions



AADE. 7 self-care behaviors (www.diabeteseducator.org/patient-resources/aade7-self-care-behaviors). 14

CARDI•





Source: Agency for Healthcare Research and Quality, Medical Expenditure Panel Survey, 2002-2013. **Note:** Adults who reported that their health providers *sometimes or never* listened carefully, explained things clearly, showed respect for what they had to say, or spent enough time with them are considered to have poor communication.



The Evidence on Concordance is Nuanced



- "There is inconclusive evidence to support that patient-provider raceconcordance is associated with positive health outcomes for minorities."
- "Communication rated as more collaborative in race-discordant relationships was associated with better adherence, while communication rated as less collaborative was associated with poor adherence. There was no significant association between adherence and communication in race-concordant relationships (p = 0.24)."
- Experimental studies suggest that race/sex discordant providers practicing empathy, collaborative communication and self-disclosure can build similar levels of trust as concordant providers

Diamond L, Izquierdo K, Canfield D, Matsoukas K, Gany F. A systematic review of the impact of Patient–Physician non-English language concordance on quality of care and outcomes. Journal of general internal medicine. 2019 Aug 1:1-6.

Schoenthaler A, Allegrante JP, Chaplin W, Ogedegbe G. The effect of patient–provider communication on medication adherence in hypertensive black patients: does race concordance matter?. Annals of Behavioral Medicine. 2012 Jun 1;43(3):372-82.

Nazione S, Perrault EK, Keating DM. Finding Common Ground: Can Provider-Patient Race Concordance and Self-disclosure Bolster Patient Trust, Perceptions, and Intentions?. Journal of racial and ethnic health disparities. 2019 Oct 1;6(5):962-72.



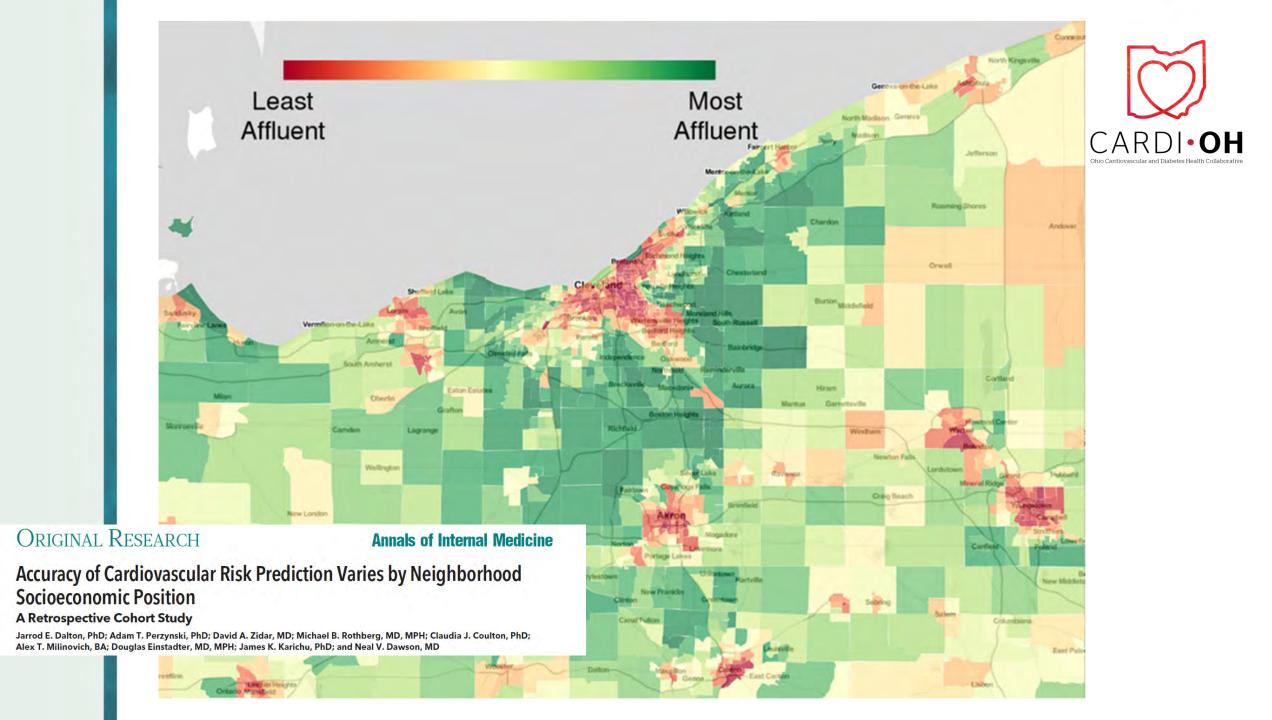
Root Causes

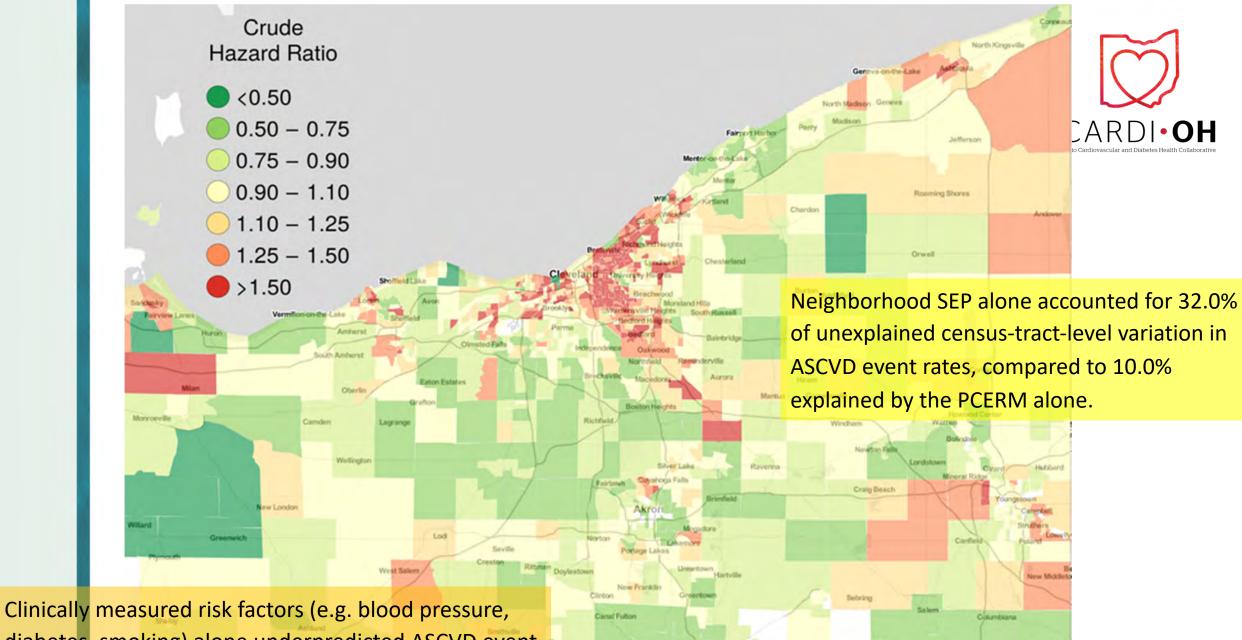
"The 5 Whys"

Health Care Provider-Patient Communication

Non-Medical Health Related Social Needs

Cultural Humility/Implicit Bias/Discrimination

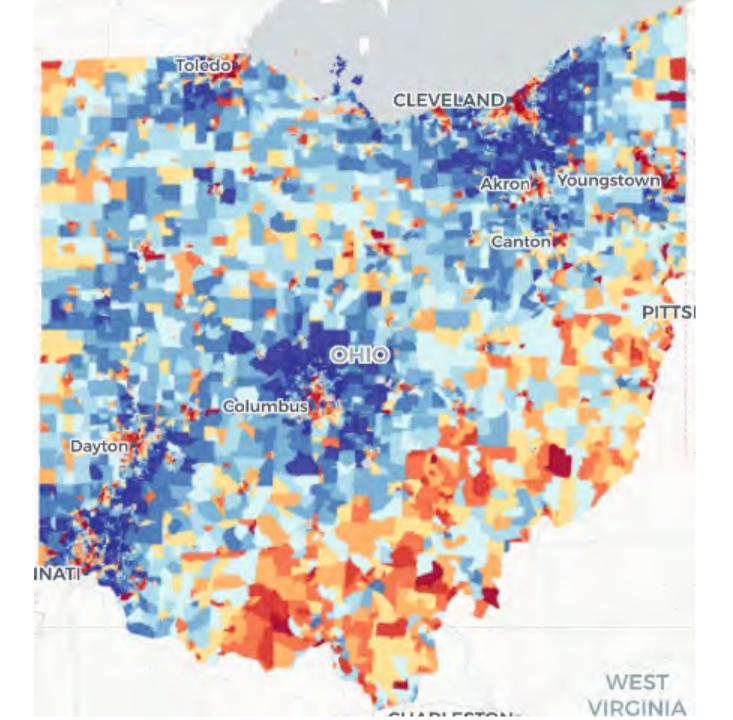


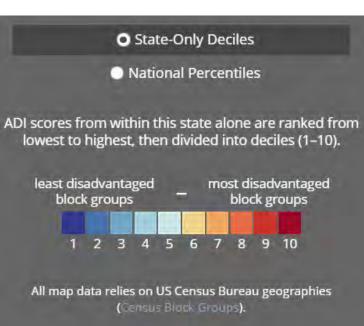


Dalton

East Pale

diabetes, smoking) alone underpredicted ASCVD event risk among low-SEP communities.







The burden of social needs is severe in many Ohio Communities



Figure 1. Percent with Social Needs by Age Cohort at the MetroHealth Study Site in 2020. N=16088								
Age	Social Isolation	Food Insecurity	• •	No Internet Connectivity	Transportation Insecurity	Financial Strain	Housing Insecurity	Domestic Abuse
Total	44	33	21	20	17	12	8	4
0-24	52	42	23	12	20	12	8	9
25-34	51	30	21	4	15	10	10	7
35-54	47	39	28	9	19	16	11	6
55-64	41	37	22	22	19	14	7	3
65+	35	22	12	36	13	7	3	1



Root Causes

"The 5 Whys"

Health Care Provider-Patient Communication

Non-Medical Health Related Social Needs

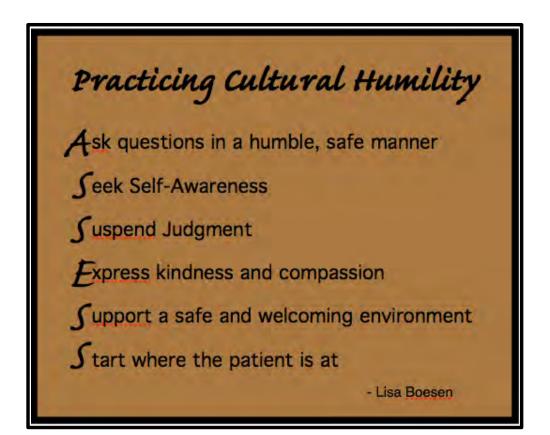
Cultural Humility/Implicit Bias/Discrimination

Pursue Cultural Humility



• "Cultural humility is the ability to maintain an interpersonal stance that is other-oriented (or open to the other) in relation to aspects of cultural identity that are most important to the person"

• Difficulty in following healthy recommendations can have complex origins outside the patient's control.



23

Potential Solutions



Mitigation of Implicit Bias / Effective Patient Communication / Building Trust

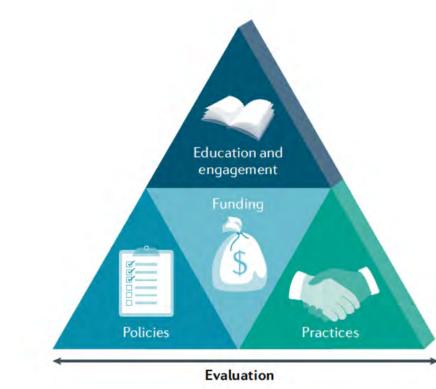
National Culturally and Linguistically Appropriate Services (CLAS) Standards

Streamlined Evaluation & Referrals to Address Nonmedical health related social needs

Community Health Workers – Social Needs and Diabetes Education

Making Anti-Racism A Core Value





- Elevate the cause
- Engage stakeholders
- Equip communities, employees, and learners
- Empower those who are marginalized or oppressed
- Evaluation and accountability are key

Gray II, D., **Joseph, J.,** Glover, A., Olayiwola, J. (2020.) How academia should respond to racism. *Nature Reviews Gastroenterology & Hepatology*. <u>https://doi.org/10.1038/s41575-020-0349-x</u>

J. Nwando Olayiwola, **Joshua J. Joseph**, Autumn R. Glover, Harold L. Paz, Darrell M. Gray, II "Making Anti-Racism A Core Value In Academic Medicine, " *Health Affairs* Blog, August 25, 2020. DOI: 10.1377/hblog20200820.931674



26

- Establish a **collaborative relationship** and to assess and address selfmanagement barriers **without blaming patients** for "noncompliance" or "nonadherence" when the outcomes of self-management are not optimal.
- "noncompliance" and "nonadherence" denote a passive,
 obedient role for a person with diabetes in "following doctor's orders" that is at odds with the active role people with diabetes take in directing the day-to-day decision making, planning, monitoring, evaluation, and problem-solving involved in diabetes self-management.
- Using a nonjudgmental approach that normalizes periodic lapses in self-management may help minimize patients' resistance to reporting problems with self-management.
- Use evidenced-based approaches like Motivational Interviewing

Potential Solutions



Mitigation of Implicit Bias / Effective Patient Communication / Building Trust

National Culturally and Linguistically Appropriate Services (CLAS) Standards

Streamlined Evaluation & Referrals to Address Non-medical health related social needs

Community Health Workers – Social Needs and Diabetes Education





- The National Standards for Culturally and Linguistically Appropriate Services in Health and Health Care (The National CLAS Standards) aim to improve health care quality and advance health equity by establishing a framework for organizations to serve the nation's increasingly diverse communities.
- Advancing Health Equity At Every Point of Contact

Potential Solutions



Mitigation of Implicit Bias / Effective Patient Communication / Building Trust

National Culturally and Linguistically Appropriate Services (CLAS) Standards

Streamlined Evaluation & Referrals to Address Non-medical health related social needs

Community Health Workers – Social Needs and Diabetes Education

Screen and Refer models of caring for social needs show potential for improving outcomes



- Vendor-based systems (pathways community hub)
- Simple EHR-based screening protocols (EPIC, PRAPARE, Health Leads)
- Think about existing processes (esp. forms) where you are already providing social care!

Potential Solutions



Mitigation of Implicit Bias / Effective Patient Communication / Building Trust

National Culturally and Linguistically Appropriate Services (CLAS) Standards

Streamlined Evaluation & Referrals to Address Non-medical health related social needs

Community Health Workers – Social Needs and Diabetes Education

Community Health Workers



- Frontline public health workers
- Trusted community members
- Possess a deep understanding of the communities they serve.

 The American Association of Diabetes Educators defines CHWs, as complementary healthcare workers who interact with people with diabetes or those at risk of diabetes.¹

Community Health Worker – High Intensity Interventions Improve A1C



- Spencer et al, 2011 diabetes self-management education and regular home visits, and accompanied them to a clinic visit during the 6-month intervention period
- Rothschild et al, 2015 delivering self-management training through 36 home visits over 2 years
- Perez-Escamilla et al, 2017 The CHW intervention comprised 17 individual sessions delivered at home by CHWs over a 12-month period. Sessions addressed T2D complications, healthy lifestyles, nutrition, healthy food choices and diet for diabetes, blood glucose selfmonitoring, and medication adherence.

Pérez-Escamilla R, Damio G, Chhabra J, Fernandez ML, Segura-Pérez S, et al impact of a community health workers–led structured program on blood glucose control among Latinos with type 2 diabetes: the DIALBEST trial. *Diabetes Care* 2015;38(2):197-205. <u>https://pubmed.ncbi.nlm.nih.gov/25125508/</u>

Rothschild SK, Martin MA, Swider SM, Tumialán Lynas CM, Janssen I, et al. Mexican American trial of community health workers: a randomized controlled trial of a community health worker intervention for Mexican Americans with type 2 diabetes mellitus. *American Journal of Public Health* 2014;104(8):1540-8. <u>https://pubmed.ncbi.nlm.nih.gov/23947316/</u>

Spencer MS, Rosland AM, Kieffer EC, Sinco BR, Valerio M, et al. Effectiveness of a community health worker intervention among African American and Latino adults with type 2 diabetes: a randomized controlled trial. *American Journal of Public Health* 2011;101(12):2253-60. <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3222418/</u>

Potential Solutions



- There are many other possible solutions.
- Critical to think through those aspects of social needs, community factors and health disparities that are most relevant in the hyper-local circumstances of your clinic and the neighborhoods that it serves.



Thank you!

Questions/Discussion