

# Structural Competency Training for Kidney Healthcare Professionals

The End Stage Renal Disease National Coordinating Center (ESRD NCC)

*Using a structurally proficient approach in the field of kidney care plays a significant role in **enhancing patient outcomes** and aiding kidney healthcare professionals in **gaining a deeper understanding of their patients.***



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# Module 3

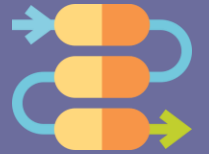
Imagining and Implementing Structural Interventions to Advance Health Equity in the Kidney Community

# Learning Objectives

Describe historical or contemporary examples of an intervention that addressed structural violence and vulnerability in care



Define and understand the six levels of intervention for addressing harmful social structures in kidney care



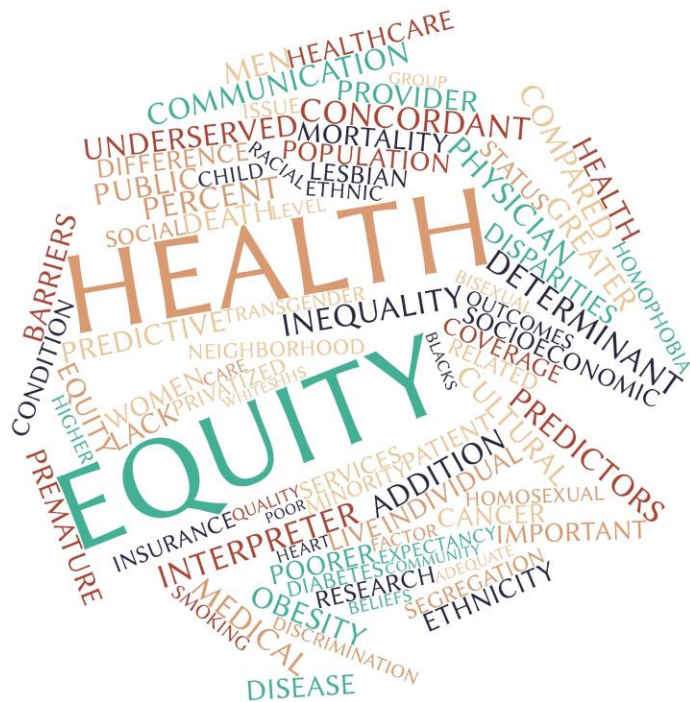
Identify interventions and strategies that address structural causes of kidney disease and kidney care inequities



**Describe interventions  
that addressed structural violence  
and vulnerability in care**

# Equity Curriculum In Action

- Immersion training for residents (e.g., taking public transportation to a clinic)
  - Yale University School of Medicine
- Special webinars and reading groups among medical students (e.g., inequities in health)
  - University of California, Riverside School of Medicine



Hansen, H., Braslow, J. & Rohrbaugh, R. M. From Cultural to Structural Competency—Training Psychiatry Residents to Act on Social Determinants of Health and Institutional Racism. *JAMA Psychiatry* (2018), 75 (2), 117-118. Structural Competency Working Group. Retrieved from [www.structcomp.org](http://www.structcomp.org).  
University of California, Riverside. Center for Health Disparities Research. 2023. Retrieved from <https://healthdisparities.ucr.edu/>.  
Yale School of Medicine. Social Justice and Health Equity Curriculum. 2023. Retrieved from <https://medicine.yale.edu/psychiatry/education/social/justice/>.

# Strategies for Increasing Structural Competency

## Knowledge

- Build vocabulary for dialogue and awareness.

Davis, S. & O'Brien, A. Let's Talk About Racism: Strategies for Building Structural Competency in Nursing. *Academic Medicine*. 2020. 95 (12S); S58-S65.  
Structural Competency Working Group. Retrieved from [www.structcomp.org](http://www.structcomp.org).



# Strategies for Increasing Structural Competency

## Knowledge

- Build vocabulary for dialogue and awareness.

## Attitudes

- Combat implicit biases. Engage in critical self-examination.

Davis, S. & O'Brien, A. Let's Talk About Racism: Strategies for Building Structural Competency in Nursing. *Academic Medicine*. 2020. 95 (12S); S58-S65. Structural Competency Working Group. Retrieved from [www.structcomp.org](http://www.structcomp.org).

# Strategies for Increasing Structural Competency

## Knowledge

- Build vocabulary for dialogue and awareness.

## Attitudes

- Combat implicit biases. Engage in critical self-examination.

## Skills

- Lead difficult conversations. Maintain mutual trust, respect, and a shared vision.

Davis, S. & O'Brien, A. Let's Talk About Racism: Strategies for Building Structural Competency in Nursing. *Academic Medicine*. 2020. 95 (12S); S58-S65.  
Structural Competency Working Group. Retrieved from [www.structcomp.org](http://www.structcomp.org).



# Define and understand the six levels of intervention in kidney care

# Opportunities to Improve Equitable Care

## Individual

- Combat implicit biases
- Gain knowledge of structures and health

## Interpersonal

- Use person-first language
- Connect patients with resources

## Clinic/Cooperation

- Ensure inclusive policy and procedures
- Increase staff trainings



## Community

- Create partners (e.g., Area Agency of Aging, food pantries)
- Engage with patient professional orgs. (e.g., American Association of Kidney Patients)





**Identify interventions and strategies  
that address kidney care inequities**

# The Patient Voice: Barriers and Solutions

Barriers	Solutions
<p>Access to dialysis facilities</p> 	<ul style="list-style-type: none"><li>• Collaborate with transportation service providers</li><li>• Increase telemedicine services</li><li>• Evaluate for home dialysis</li></ul>
<p>Financial constraints and healthcare coverage</p> 	<ul style="list-style-type: none"><li>• Provide information about insurance options, financial aid programs</li><li>• Provide easy-to-understand resources about Medicaid and Medicare</li></ul>





Gee, P. Expert review needed: Structural competency training. *Microsoft Outlook*. 2023.

# The Patient Voice: Barriers and Solutions (Cont.)

Barriers	Solutions
<p>Social isolation/mental health challenges</p> 	<ul style="list-style-type: none"><li>• Establish support groups or facilitate access to counseling services</li><li>• Engage the community to raise awareness about ESRD</li><li>• Using a multidisciplinary team approach to engage with and empower patients</li></ul>
<p>Insufficient patient educational information</p> 	<ul style="list-style-type: none"><li>• Improve access to patient education programs</li><li>• Use multimedia resources, support groups, and trained educators<ul style="list-style-type: none"><li>▪ NCC patient mobile tool, audio recordings, podcasts</li></ul></li></ul>

Gee, P. Expert review needed: Structural competency training. *Microsoft Outlook*. 2023.

# What Is Your Level of Proficiency in Structural Competency?

Level 1 	Level 2 	Level 3 	Level 4 
Ability to connect health problems to social risk factor domains	Knowledge of resources that can help patients	Ability to address unconscious biases within ourselves	Ability to become thought leaders and actively contribute



Andress, L., & Purtil, M. Shifting the gaze of the physician from the body to the body in a place: A qualitative analysis of a community-based photovoice approach to teaching place-health concepts to medical students. *PLOS ONE*. 2020. 15(2), e0228640. Structural Competency Working Group. Retrieved from [www.structcomp.org](http://www.structcomp.org).

# How Can Kidney Professionals Become More Structurally Competent?



- Use person-first language.
- Create alliances between kidney professionals who serve the same vulnerable patients.
- Address clinical structural problems by investigating the details when patient-provider conflicts occur.

Capel, A. (n.d). Do patients care about the cultural competence of healthcare providers? *Medical Bag*. Retrieved from <https://www.medicalbag.com/home/news/do-patients-care-about-the-cultural-competence-of-healthcare-providers/>  
Metzl, J., & Roberts, D. Structural competency meets structural racism: Race, politics, and the structure of medical knowledge. *American Medical Association Journal of Ethics*. September 2014. 16(9), 674-690.



# Examples of Impact on Health Systems



**Unstable Housing**



**Food Insecurity**

## Community Partners in Care and the Health Neighborhoods Initiative (Los Angeles, CA)

- Address mental health disparities using a broadened definition of mental health “treatment.”
- Include structural factors that can be intervened upon (e.g., unstable housing, unemployment, safety concern, school dropout, incarceration).
- Goals: To improve mental wellness, increase housing stability, and reduce hospitalizations for adults with depression.

Brown, A. F., Ma, G. X., Miranda, J., Eng, E., Castille, D., Brockie, T., Jones, P., Airhihenbuwa, C. O., Farhat, T., Zhu, L., & Trinh-Shevrin, C. (2019). Structural Interventions to Reduce and Eliminate Health Disparities. *American Journal of Public Health*, 109(S1), January 2019, S72–S78. <https://doi.org/10.2105/AJPH.2018.304844>.

Castillo, E. G., Ijadi-Maghsoodi, R., Shadravan, S., Moore, E., Mensah, M. O., Docherty, M., ... & Wells, K. B. (2019). Community interventions to promote mental health and social equity. *Current Psychiatry Reports*, 21, 1-14, 2019. <https://doi.org/10.1176/appi.focus.18102>

# Creating Beloved Community

- Responsibility
- Shared power
- Deep respect for all people, places, and things



Lewis, J. (2021). What is beloved community? *Community Matters*. Retrieved from <https://jonelewis.substack.com/p/what-is-beloved-community->.



**Mount  
Sinai**

# Imagining and Implementing Structural Interventions for Kidney Professionals

DINUSHIKA MOHOTTIGE, MD, MPH

## DISCLOSURES

Member: ESRD National Coordinating Center Health Equity Taskforce, National Kidney Foundation Health Equity Advisory Committee, National Kidney Foundation Transplant Advisory Committee, NKF Greater NY Medical Advisory Board, Healio Nephrology Board

Funding: National Kidney Foundation Young Investigator Award, Mario Family Foundation Award, Reach Equity Career Development Award, Supported by NIMHD U54MD012530, NHGRI Award under HG010248, NIDDK Award under DK137259.

## THE WHY?



## Dismantling structural racism as a root cause of racial disparities in COVID-19 and transplantation

Tanjala S. Purnell ✉, Dineen C. Simpson, Clive O. Callender, L. Ebony Boulware

 SOCIAL AND ETHICAL ISSUES IN 2020

## Stony the road we trod: towards racial justice in kidney care

O. N. Ray Bignall II and Deidra C. Crews

POLICY FORUM PERSPECTIVE | VOLUME 77, ISSUE 6, P951-962, JUNE 01, 2021

### Racism and Kidney Health: Turning Equity Into a Reality

Dinushika Mohottige ✉, Clarissa J. Diamantidis • Keith C. Norris • L. Ebony Boulware

June 6, 2022

## Race-Free Estimation of Kidney Function Clearing the Path Toward Kidney Health Equity

L. Ebony Boulware, MD, MPH<sup>1</sup>; Dinushika Mohottige, MD, MPH<sup>2</sup>; Matthew L. Maciejewski, PhD<sup>1,3,4</sup>

» Author Affiliations

JAMA. 2022;327(23):2289-2291. doi:10.1001/jama.2022.7310

Year in Review | [Published: 07 December 2021](#)

SOCIAL AND ETHICAL ISSUES IN 2021

## Staying on track to achieve racial justice in kidney care

[Dinushika Mohottige](#) & [Keisha Gibson](#) ✉

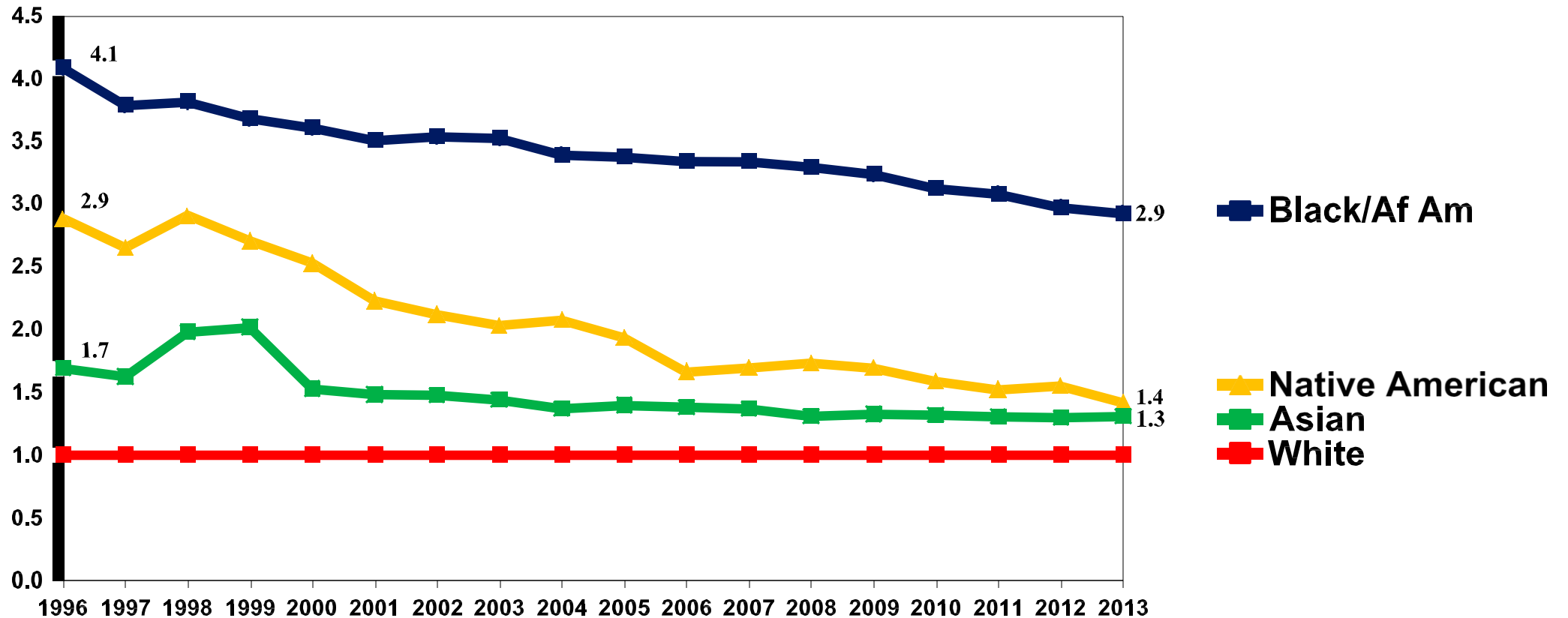
[Nature Reviews Nephrology](#) 18, 72–73 (2022) | [Cite this article](#)

# ESKD RACE DISPARITIES

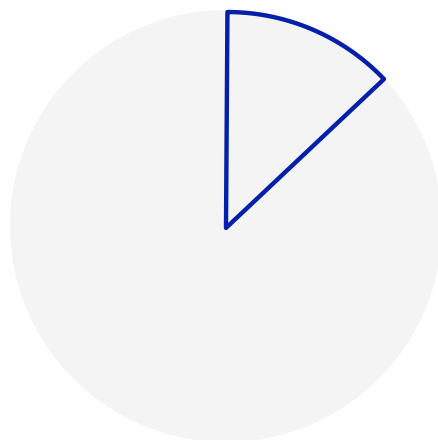
## Social Determinants of Racial Disparities in CKD

Jenna M. Norton,<sup>\*†</sup> Marva M. Moxey-Mims,<sup>\*†</sup> Paul W. Eggers,<sup>\*†</sup> Andrew S. Narva,<sup>\*†</sup>  
Robert A. Star,<sup>\*†</sup> Paul L. Kimmel,<sup>\*†</sup> and Griffin P. Rodgers<sup>†‡</sup>

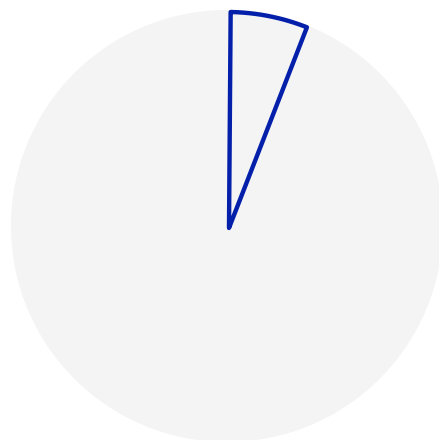
Adjusted ESKD incident rate by race in U.S.



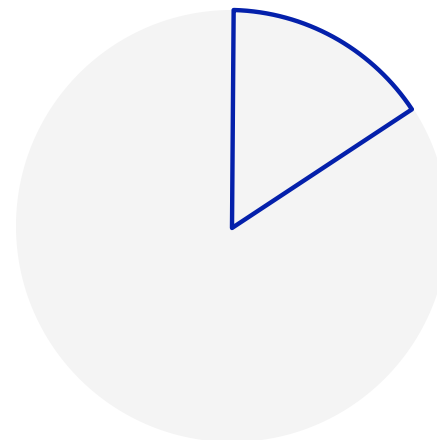
# A CALL TO ACTION



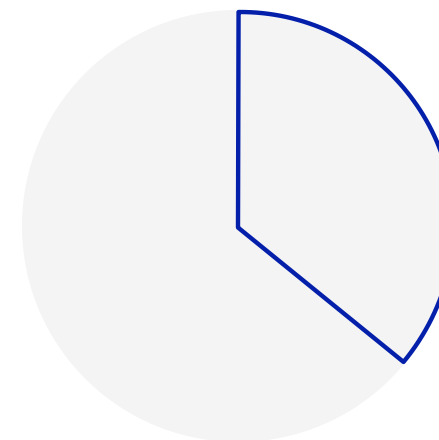
Black % of U.S. population



CKD III in Black vs. 11.5% Whites (VA)

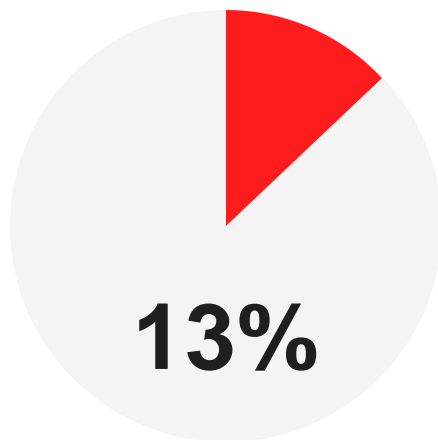


CKD I-IV in Black vs. 13% Whites (NHANES)

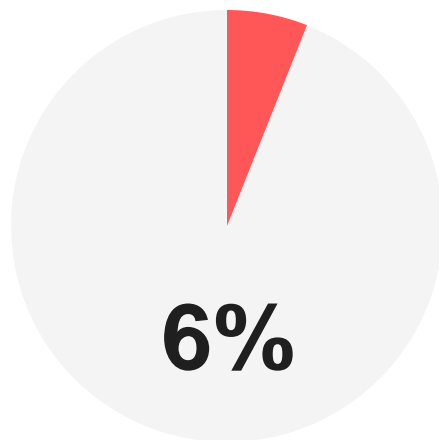


% Black of U.S. on dialysis

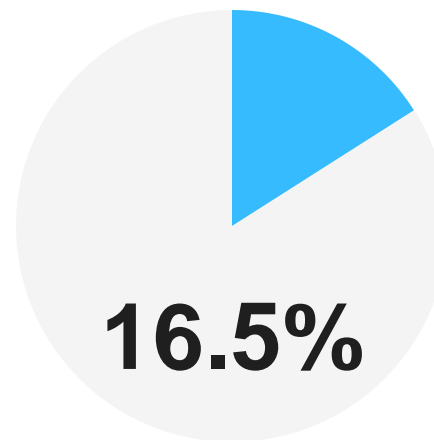
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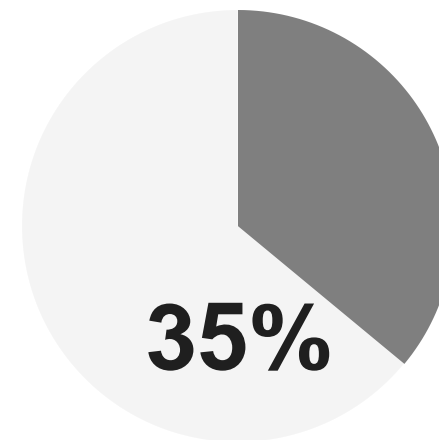
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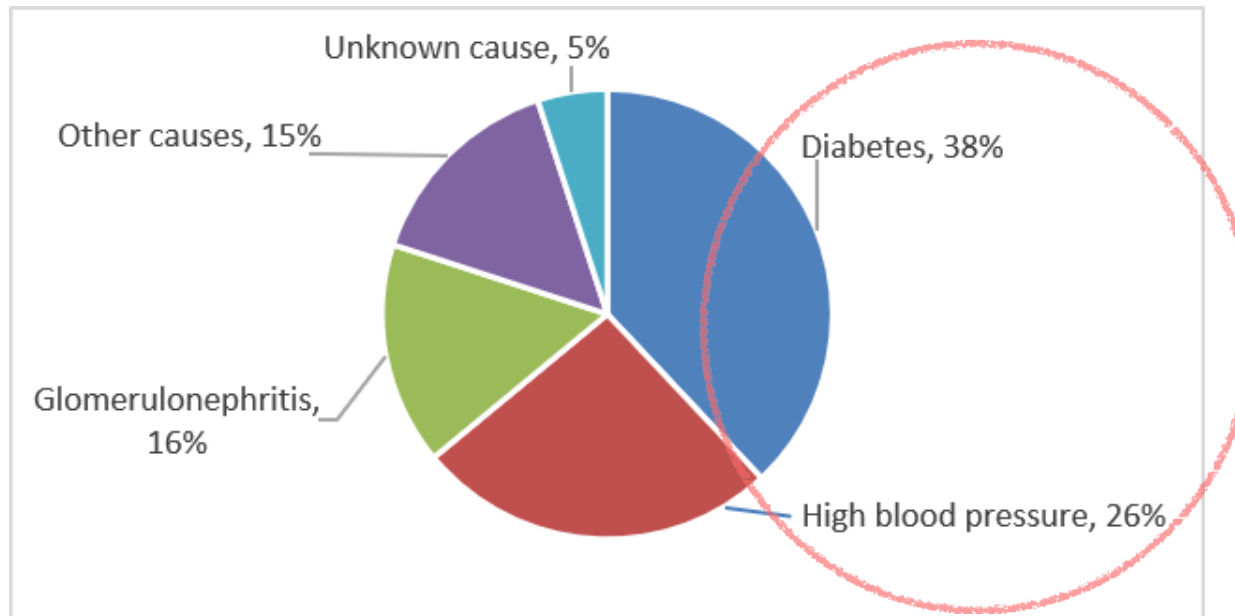
CKD I-IV in Black vs. 13% Whites (NHANES)



% Black of U.S. on dialysis



# CKD "RISKS": NOT RACE



Is race the driver of risk?

# U.S. CKD "RISKS"

## Uninsured Rates for the Nonelderly Population by Race and Ethnicity, 2010-2018

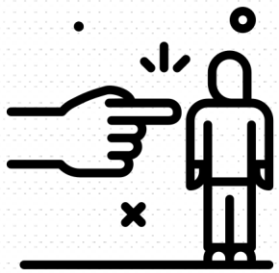


Where do social contexts and social drivers including racism fit in our understanding of risk?

Implicating  
cultural  
“differences”



Blaming a behavior  
(e.g. med non-  
adherence”) for all  
the problems



**Inequality is often  
“neutralized” or  
“naturalized” without  
naming structural harm:  
this allows for the status  
quo of structural  
inequalities to persist  
unchecked**

Racial categories  
and implied  
genetic  
differences



# STRUCTURAL COMP.

Individual behaviors  
(medication adherence) —  
are a product of an  
individual's sociopolitical  
context

Avoid a lens which places  
blame or full responsibility  
on the individual



## Kidney Health Disparities

**SDOH inequalities**  
(Poverty, housing  
education inequality)

## Social Structures

**Policies, Economic Systems and  
Social hierarchies**

(racism, sexism, ableism,  
religious and political persecution,  
transphobia...)





How do  
algorithmic  
**structures**  
**impact** kidney  
care?






## RACE AND “RISK”



National  
Kidney  
Foundation™

Race, sex, and age related differences in estimated GFR are components of prior patient-facing educational materials which previously reinforced the idea that **race confers fundamental biological difference in kidney function**

THE SAME SERUM CREATININE: VERY DIFFERENT eGFR			
	 22-YR-OLD BLACK MAN	 58-YR-OLD WHITE MAN	 80-YR-OLD WHITE WOMAN
Serum creatinine	1.2 mg/dL	1.2 mg/dL	1.2 mg/dL
GFR as estimated by the MDRD equation	98 mL/min/1.73 m <sup>2</sup>	66 mL/min/1.73 m <sup>2</sup>	46 mL/min/1.73 m <sup>2</sup>
Kidney function	Normal GFR <i>or</i> stage 1 CKD if kidney damage is also present	Stage 2 CKD if kidney damage is also present	Stage 3 CKD

# RACIALIZED HARMS



**981,038** new individuals with GFR 30-59 (RAS-I, SGLT2-inhibitor use)

**67,957** with new GFR <30 who need KRT education and discussion re: LDKT

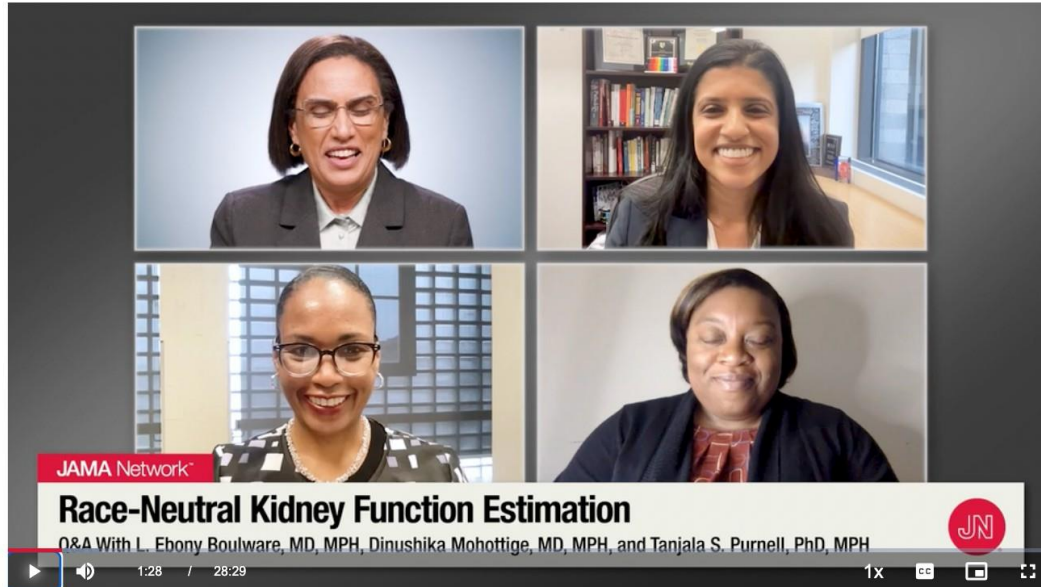
**Removal of Black race coefficient** resulted in reduction by **1.9** years in median wait time for transplant eligibility (eGFR <20)

CKD is classified based on:				Albuminuria categories		
				Description and range		
<ul style="list-style-type: none"> <li>• Cause (C)</li> <li>• GFR (G)</li> <li>• Albuminuria (A)</li> </ul>				A1	A2	A3
				Normal to mildly increased	Moderately increased	Severely increased
				<30 mg/g <3 mg/mmol	30-299 mg/g 3-29 mg/mmol	≥300 mg/g ≥30 mg/mmol
				GFR category (ml/min/1.73 m <sup>2</sup> ) Description and range	G1	Normal or high
G2	Mildly decreased	60-89	1 if CKD		Treat 1	Refer* 2
G3a	Mildly to moderately decreased	45-59	Treat 1		Treat 2	Refer 3
G3b	Moderately to severely decreased	30-44	Treat 2		Treat 3	Refer 3
G4	Severely decreased	15-29	Refer* 3		Refer* 3	Refer 4+
G5	Kidney failure	<15	Refer 4+		Refer 4+	Refer 4+

Bragg-Gresham J, Zhang X, Le D, et al. Prevalence of Chronic Kidney Disease Among Black Individuals in the US After Removal of the Black Race Coefficient From a Glomerular Filtration Rate Estimating Equation. *JAMA Netw Open.* 2021;4(1):e2035636. doi:10.1001/jamanetworkopen.2020.35636. Diao JA, Wu GJ, Taylor HA, et al. Clinical Implications of Removing Race From Estimates of Kidney Function. *Jama.* 2020. doi:10.1001/jama.2020.35636. Zelnick LR, Leica N, Young B, Bansal N. Association of the estimated glomerular filtration rate with vs without a coefficient for race with time to eligibility for kidney transplant. *JAMA Netw Open.* 2021;4(1):e2034004. Vassalotti J, Joseph A, et al. Practical approach to detection and management of chronic kidney disease for the primary care clinician. *The American journal of medicine.* 129(2) (2016): 153-162. Norris KC, Eneanya ND, Boulware LE. Removal of Race From Estimates of Kidney Function: First Do No Harm. *Jama.* 2020. doi:10.1001/jama.2020.35636. Hoening M, P, et al. (2022). "Removal of the Black race coefficient from the estimated glomerular filtration equation improves transplant eligibility for Black patients at a single center." *Clin Transplant* 36(2): e14467. Inker, L. A., et al. (2021). "New Creatinine- and Cystatin C-Based Equations to Estimate GFR without Race." *New England Journal of Medicine* 385(19): 1737-1749. Boulware LE, Purnell TS, Moholige D. Systemic Kidney Transplant Inequities for Black Individuals: Examining the Contribution of Racialized Kidney Function Estimating Equations. *JAMA Netw Open.* 2021;4(1):e2034630.

## RESTORATIVE POLICY

### Race-Neutral Estimates of Kidney Function: Enhancing Equity



In January 2023, the US Organ Procurement & Transplantation Network (OPTN) required transplant centers to modify transplant list wait times for Black patients. JAMA Editor in Chief Kirsten Bibbins-Domingo, PhD, MD, MAS, and L. Ebony Boulware, MD, MPH, Dinushika Mohottige, MD, MPH, and Tanjala S. Purnell, PhD, MPH, discuss why the OPTN mandate is a valuable model for reforming race-based practices.

# UNOS<sup>SM</sup>

UNITED NETWORK FOR ORGAN SHARING

*Saving lives together*

January 11, 2023 | 1 min read

SAVE 

## Black patients impacted by eGFR race coefficient can modify transplant waitlist time







How do structural barriers impact kidney health and CKD risk?



# Structural Violence



**Structural violence is one way of describing social arrangements that put individuals and populations in harms' way...The arrangements are structural because they are embedded in the political and economic organization of our social world; they are violent because they cause injury to people**

**|| Farmer et al.**

# STRUCTURAL INEQUITY

Environmental, and occupational inequity



Inequity in health care access and delivery



Psychosocial stressors



Targeted marketing of health-harming products



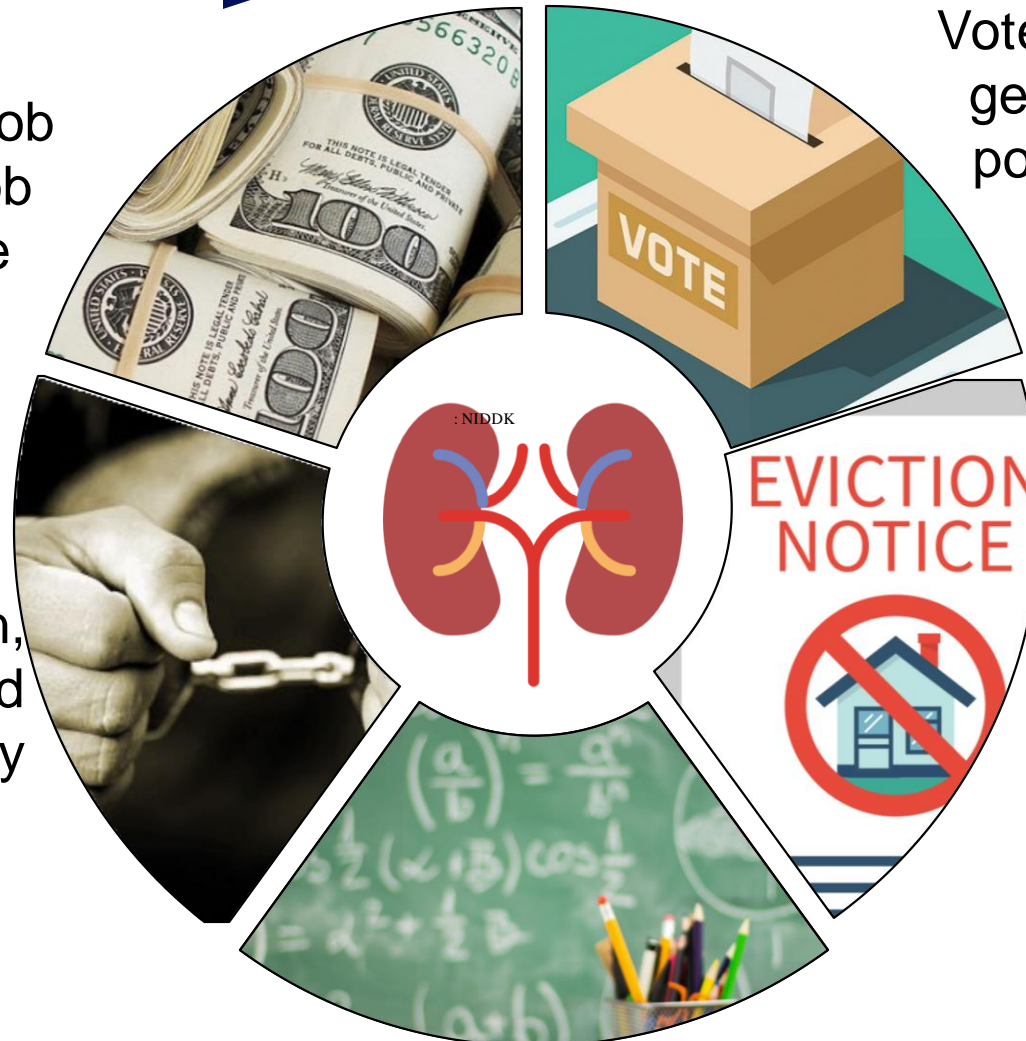
Neighborhood resources: redlining and disinvestment



# STRUCTURAL INEQUITY

Economic inequity, job discrimination, job segregation, wage inequity

Criminalization, policing and neighborhood safety

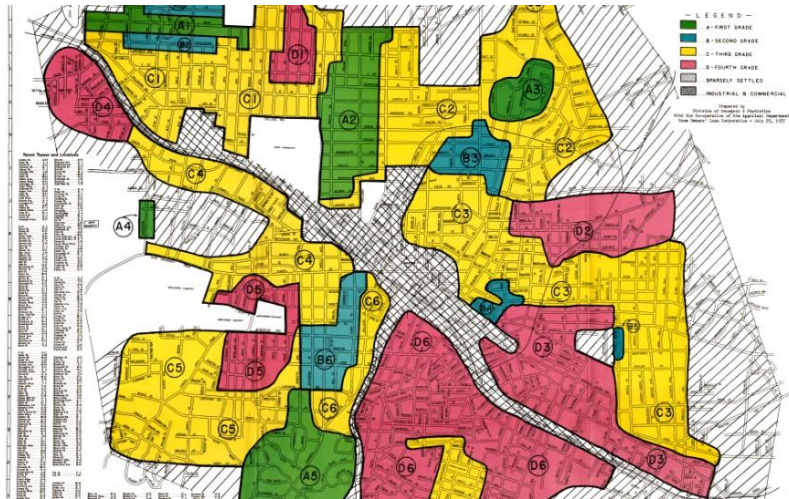


Voter disenfranchisement/ gerrymandering/lack of political representation

Housing insecurity/ unregulated gentrification and racialized disinvestment

Educational inequity

# HOUSING: STRATIFIED

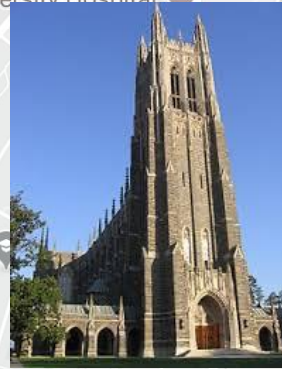


1937 Federal HOLC red-lining in Durham (segregation and disinvestment persists today)

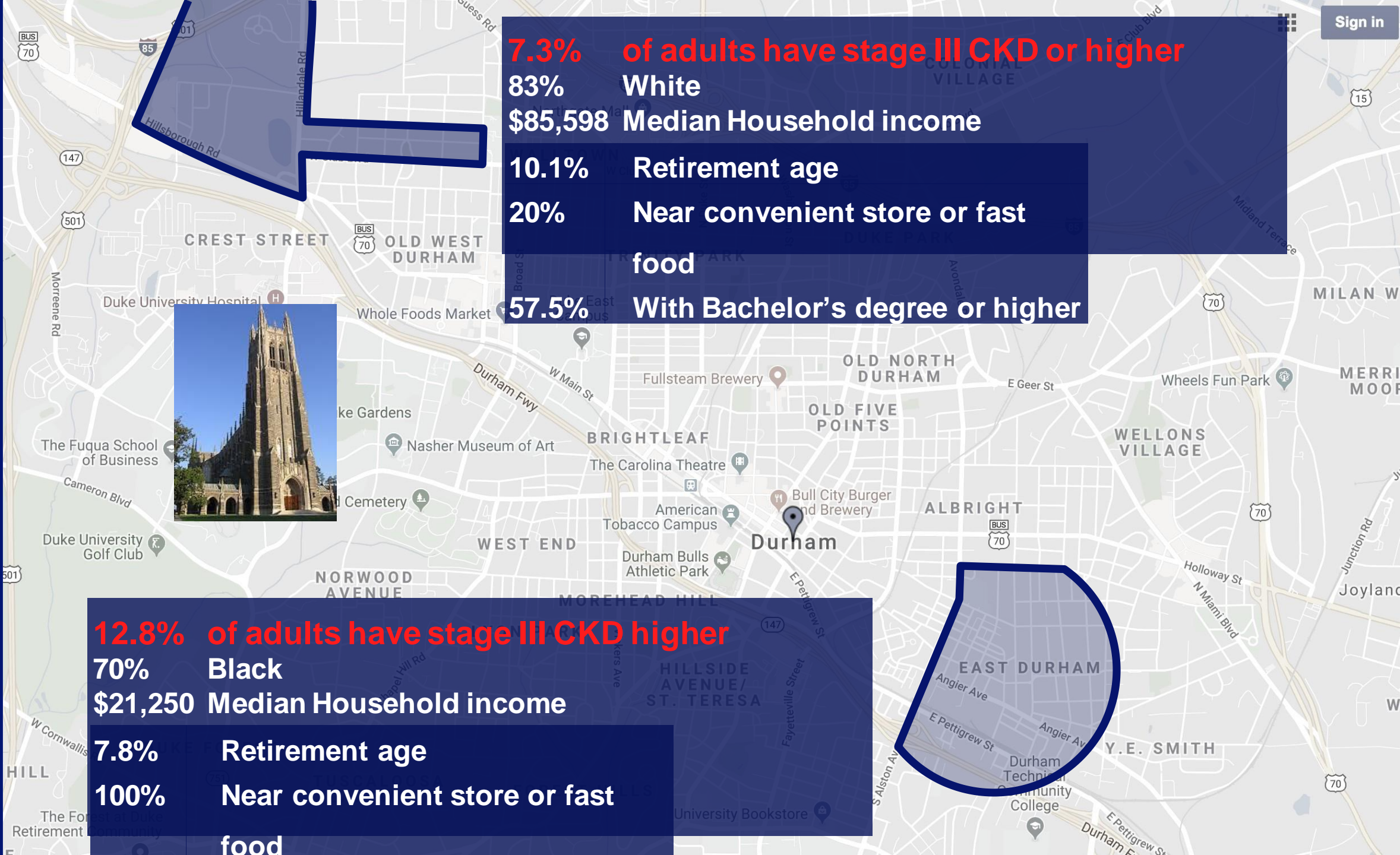
Racialized disinvestment in infrastructure and racialized resources including health care

14. **RACIAL RESTRICTIONS**...No property in said addition shall at any time be sold, conveyed, rented or leased in whole or in part to any person or persons not of the White or Caucasian race. No person other than one of the White or Caucasian race shall be permitted to occupy any property in said addition or portion thereof or building thereon except a domestic servant actually employed by a person of the White or Caucasian race where the latter is an occupant of such property.

**7.3%** of adults have stage III CKD or higher  
**83%** White  
**\$85,598** Median Household income  
**10.1%** Retirement age  
**20%** Near convenient store or fast food  
**57.5%** With Bachelor's degree or higher



**12.8%** of adults have stage III CKD higher  
**70%** Black  
**\$21,250** Median Household income  
**7.8%** Retirement age  
**100%** Near convenient store or fast food



**Structural racism is associated with CKD, Diabetes, and Hypertension prevalence in a study of 150 Durham, NC neighborhoods**

**Table 3. Association of Composite and Discrete Structural Racism Constructs With Neighborhood Chronic Kidney Disease, Diabetes, and Hypertension Prevalence, Adjusted for Median Age of Residential Neighborhood Population and Spatial Correlation**

Measure	Estimated adjusted prevalence ratio (95% highest density interval) <sup>a</sup>		
	Chronic kidney disease	Diabetes	Hypertension
<b>Composite measures of structural racism</b>			
Percentage of White population, per 1-SD decrease	1.27 (1.18-1.35)	1.43 (1.37-1.52)	1.19 (1.14-1.25)
White ≥\$100 000 ICE-RI, per 1-SD decrease	1.27 (1.20-1.35)	1.35 (1.28-1.43)	1.14 (1.09-1.19)
ADI	1.25 (1.18-1.32)	1.35 (1.30-1.43)	1.15 (1.10-1.19)
<b>Discrete measures of structural racism</b>			
Child care centers	1.10 (1.03-1.17)	1.14 (1.07-1.22)	1.08 (1.03-1.13)
Homes near bus stops	1.05 (0.97-1.14)	1.08 (0.99-1.17)	0.97 (0.92-1.03)
Tree cover, per 1-SD decrease	1.04 (0.96-1.12)	1.04 (0.96-1.12)	0.96 (0.92-1.01)
Violent crimes	1.15 (1.07-1.23)	1.20 (1.13-1.28)	1.08 (1.02-1.14)
Impervious area	1.01 (0.94-1.09)	0.99 (0.92-1.07)	0.93 (0.88-0.98)
Eviction rate	1.09 (1.02-1.17)	1.14 (1.07-1.22)	1.07 (1.02-1.12)
Primary election participation, per 1-SD decrease	1.15 (1.06-1.23)	1.32 (1.23-1.41)	1.06 (1.01-1.14)
Median household income, per 1-SD decrease	1.19 (1.12-1.28)	1.25 (1.18-1.33)	1.08 (1.03-1.14)
Poverty rate	1.14 (1.06-1.22)	1.23 (1.15-1.31)	1.07 (1.02-1.13)
Percentage with Bachelor's degree, per 1-SD decrease	1.22 (1.15-1.3)	1.3 (1.23-1.37)	1.16 (1.12-1.22)
Percentage unemployed	1.09 (1.02-1.16)	1.15 (1.08-1.22)	1.06 (1.01-1.11)
Percentage uninsured	1.13 (1.05-1.21)	1.24 (1.17-1.32)	1.10 (1.05-1.16)
Police shootings	1.01 (0.95-1.08)	1.06 (0.99-1.13)	1.02 (0.98-1.07)

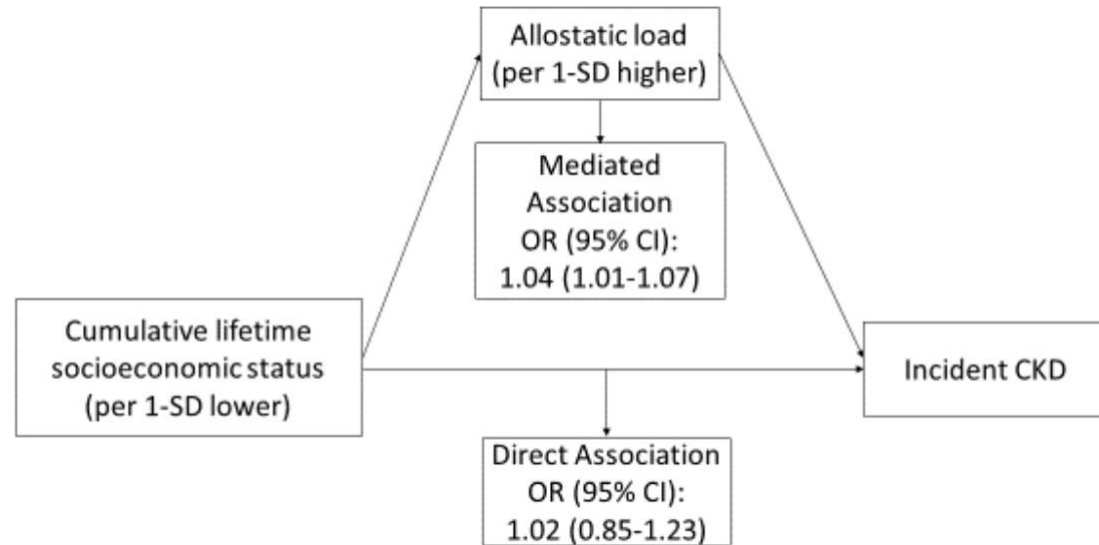


How do  
structures  
influence pre-  
dialysis and  
dialysis  
disparities?

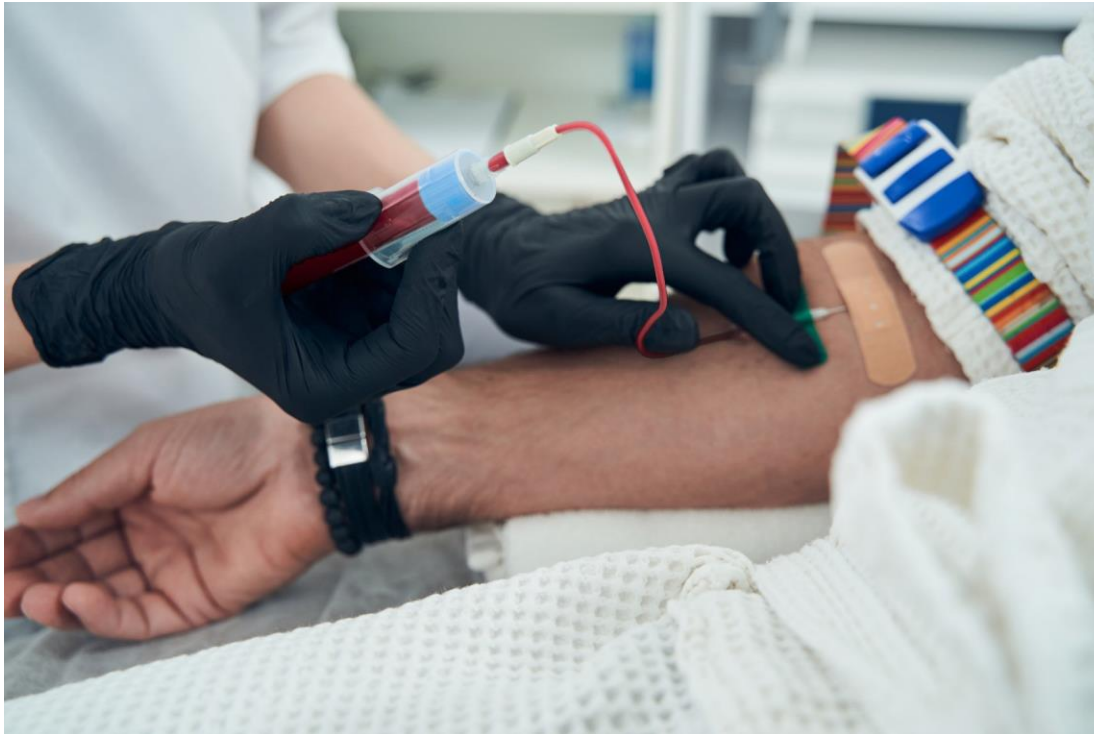


## CKD: WEATHERING

Lower cumulative lifetime SES was **associated with CKD prevalence** and modestly with CKD incidence and eGFR decline via baseline allostatic load



## PRE-DIALYSIS CARE



Racial and ethnic disparities in receipt of 12 months of nephrology care did not improve between 2005-2015 among individuals with ESKD

Purnell TS, Bae S, Luo X, Johnson M, Crews DC, Cooper LA, Henderson ML, Greer RC, Rosas SE, Boulware LE, Segev DL. National Trends in the Association of racial and ethnic disparities in receipt of at least 12 months of predialysis nephrology care did not improve from 2005 to 2015, suggesting that national strategies to address these disparities are needed. 2020





## HOUSING STABILITY



Homeless adults with CKD 3-5 have higher risk ESKD or death **HR 1.28** (CI 1.04-1.58), even **after** controlling for sociodemographic, co-morbid and lab factors

# UNEQUAL PRESCRIBING

## Predictors, Disparities, and Facility-Level Variation: SGLT2 Inhibitor Prescription Among US Veterans With CKD

Setting & Participants	Variables & Outcomes	Results
 Retrospective cohort  N = 174,443 US veterans  Comorbidities: T2DM, CKD, ASCVD  Primary care visit between Jan-Dec 2020	<p><b>Race:</b> Black vs White</p> <p><b>Sex:</b> Women vs Men</p> <p><b>Individual VA location:</b> Median rate ratios (MRR) <i>(likelihood that 2 randomly selected VA facilities differ in SGLT2i use among similar patients)</i></p>	<p>SGLT2i prescription was low N = 20,024 (11.5%)</p> <p>Lower odds of prescription was seen in Black vs White patients OR = 0.87 (0.83-0.91)</p> <p>Lower odds of prescription among women vs men OR = 0.59 (0.52-0.67)</p> <p>Large variations exist between VA facilities MRR = 1.58 (1.48-1.67)</p>

**CONCLUSION:** Prescription for SGLT2 inhibitors was low among likely eligible patients, with evident disparities by sex and race and between individual VA facilities.

L. Parker Gregg, David J. Ramsey, Julia M. Akeroyd, et al

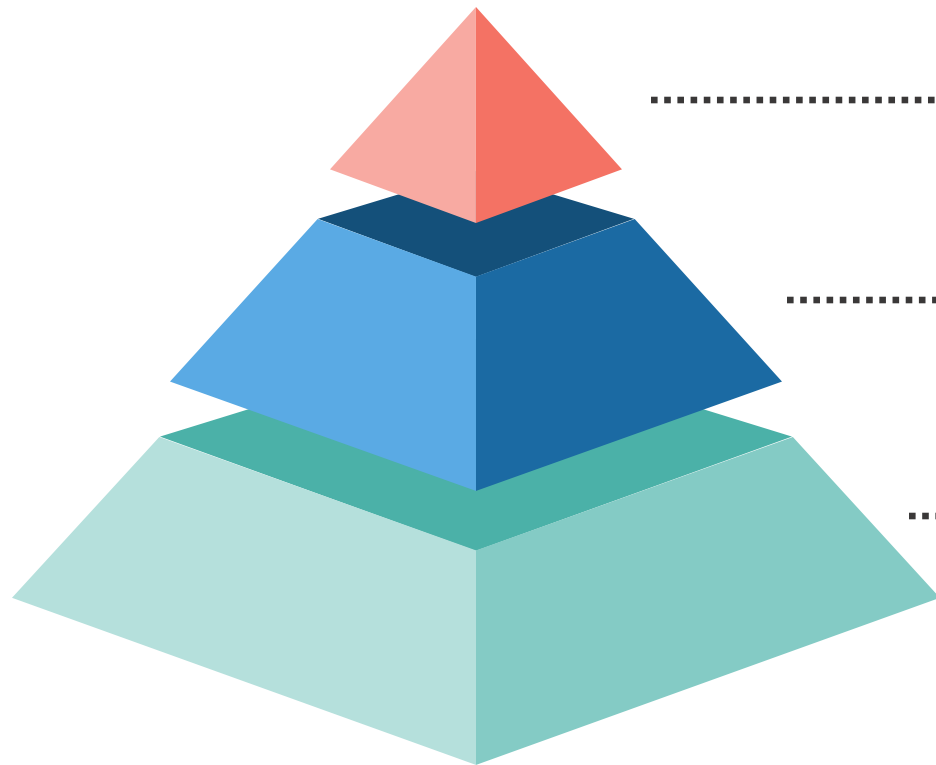
@AJKDonline | DOI: 10.1053/j.ajkd.2022.11.017



What are the  
impacts of  
**unequal  
structures** on  
kidney  
transplantation  
?



# High demand for the optimal treatment



**16,500**



Individuals received DDKT

**35,000**

Individuals with ESKD added to transplant waitlist



**786,000**

Individuals living with ESKD



**7,500**

Individuals **died** or **became too sick** to transplant while on the waitlist

# CASCADING BARRIERS

## Pre-transplant care

- \* Disparate co-morbidities
- \* Poorer access to care
- \* Poorer CKD awareness
- \* Suboptimal CKD discussions

Pre-tpx  
care

## Referral for transplant

- \* Racialized eGFR equations
- \* Structured inequities in insurance, housing
- \* Disparate referral patterns and transplant education

Referral

Evaluate

## Evaluation

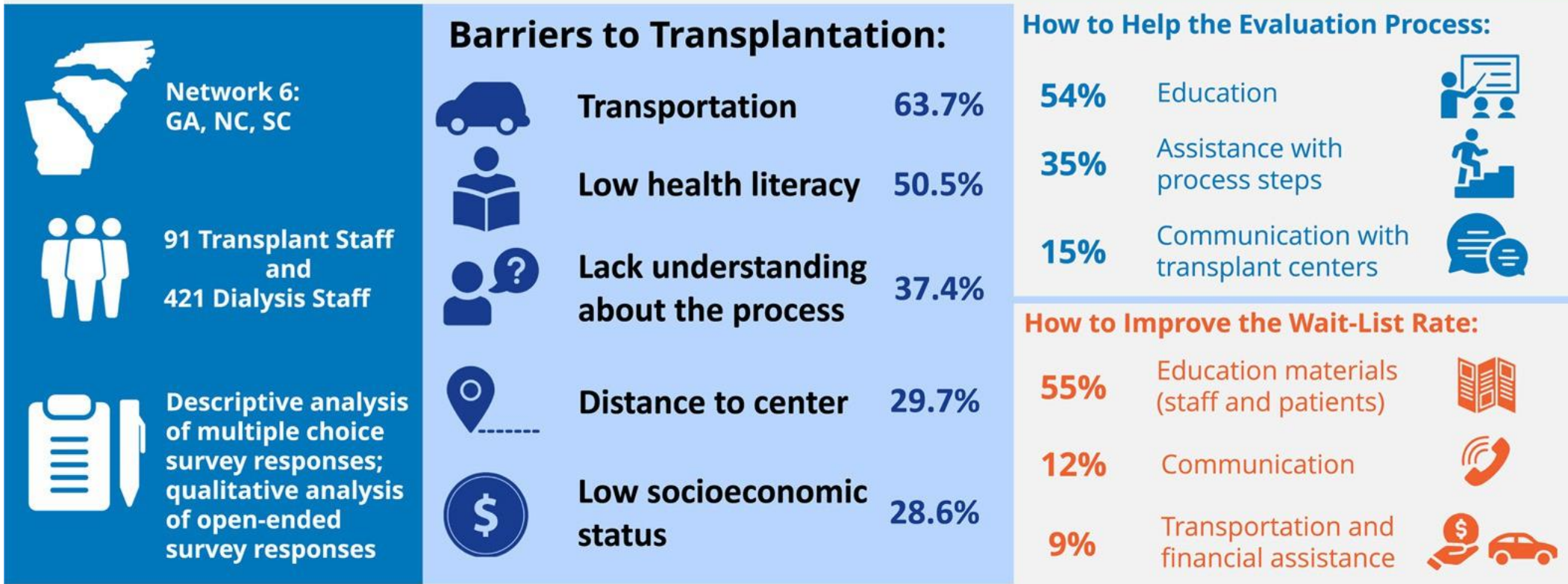
- \* Prior discrimination
- \* Bias in evaluation process including implementation of key criteria (e.g. adherence, substance use)

Waitlist

## Waitlisting

- \* Longer time to waitlist and completion of key elements for evaluation
- \* Disparities in reasons for waitlist inactivation
- \* Structured inequities impede evaluation steps

# How can access to kidney transplantation be improved in the Southeastern United States?



**Conclusion:** Dialysis units, transplant centers, and ESRD Networks can work together to help patients address key barriers to transplantation to improve the transplantation rate in the US.

**Reference:** Browne T, McPherson L, Retzlaff S, et al. Improving access to kidney transplantation: perspectives from dialysis and transplant staff in the Southeastern United States. *Kidney Medicine*, 2021.

Visual Abstract by Brian Rifkin MD

brian\_rifkin



## ROOT CAUSES: RACISM

Demographics  
Comprehensiveness of health insurance coverage  
Etiology of ESRD  
Medical comorbidities  
Perceived health status  
Time on dialysis before presenting for transplant  
Psychological health  
Medical mistrust  
Burden of kidney disease

Transplant education received prior to evaluation onset  
Transplant knowledge  
Perceived benefits and disadvantages of transplant  
Attitudinal willingness to get a transplant  
Number of living donors coming forward for patient



# EVERY DAY RACISM



## HEALTH EQUITY

By Michael Sun, Tomasz Oliwa, Monica E. Peek, and Elizabeth L. Tung

### Negative Patient Descriptors: Documenting Racial Bias In The Electronic Health Record

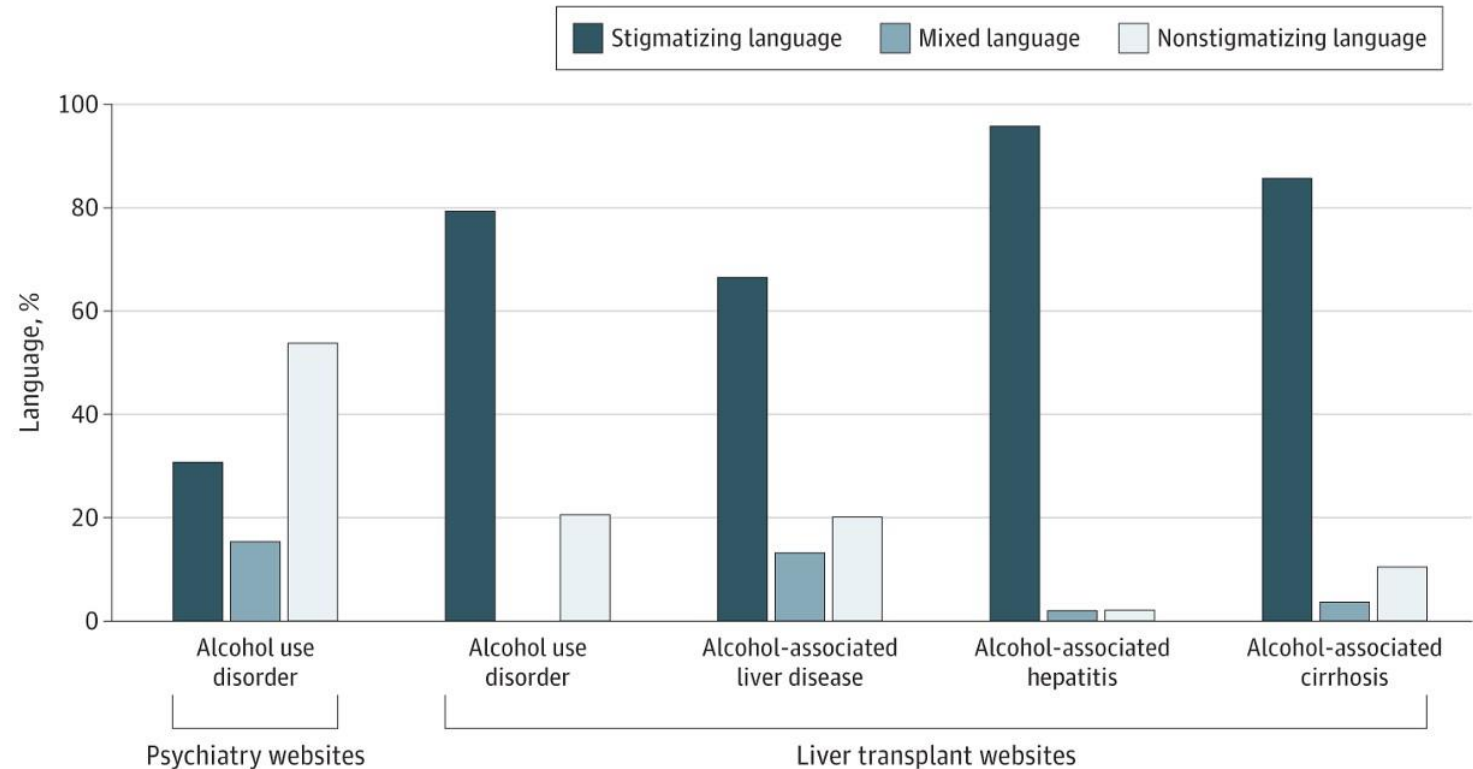
Compared with White patients, Black patients had **2.54 times** the odds of having at least one negative descriptor in the history and physical notes

# ADDRESS LANGUAGE

From: **Stigmatizing Language for Alcohol Use Disorder and Liver Disease on Liver Transplant Center Websites**

JAMA Netw Open. 2024;7(2):e2355320. doi:10.1001/jamanetworkopen.2023.55320

Stigmatizing language impacts patient-facing resources and may impact access to and perceptions of care opportunities



## UNEQUAL DISCUSSIONS

Black individuals, women and people who made less than \$20,000 a year were less likely to have a transplant discussion than dialysis





## PROVIDER EQUITY CONCERNS

Those who have less resources are suffering the most; it's not fair that you can't get transplanted if you don't have a caregiver or can't take a day off work, no money to show up in the right outfit

I coach them {candidates} before the eval to be early, to take notes, what to wear, what to say. I always do that because I want them to succeed and I know how hard it is sometimes to get through the process

A woman with her hair in a bun, wearing sunglasses and a black top, stands on a bridge with a metal railing. She is holding a large, dark sign in front of her. The background shows a cityscape with a bridge and a street lamp.

“

Oh when I've gone in and I've been dressed a certain way. When I was dressed nicely I got treated better. And let's say I would go in looking rough because I was so sick, I was treated differently. I felt less than. From health care to the grocery store to big chain stores...I saw it as any other day

|| Different treatment within the medical system

## A **cascade** of challenges to transplant referral and evaluation

- Trauma, Discrimination (explicit or implicit)
- Financial/employment instability
- Mental health and substance use
- Un-insurance and underinsurance

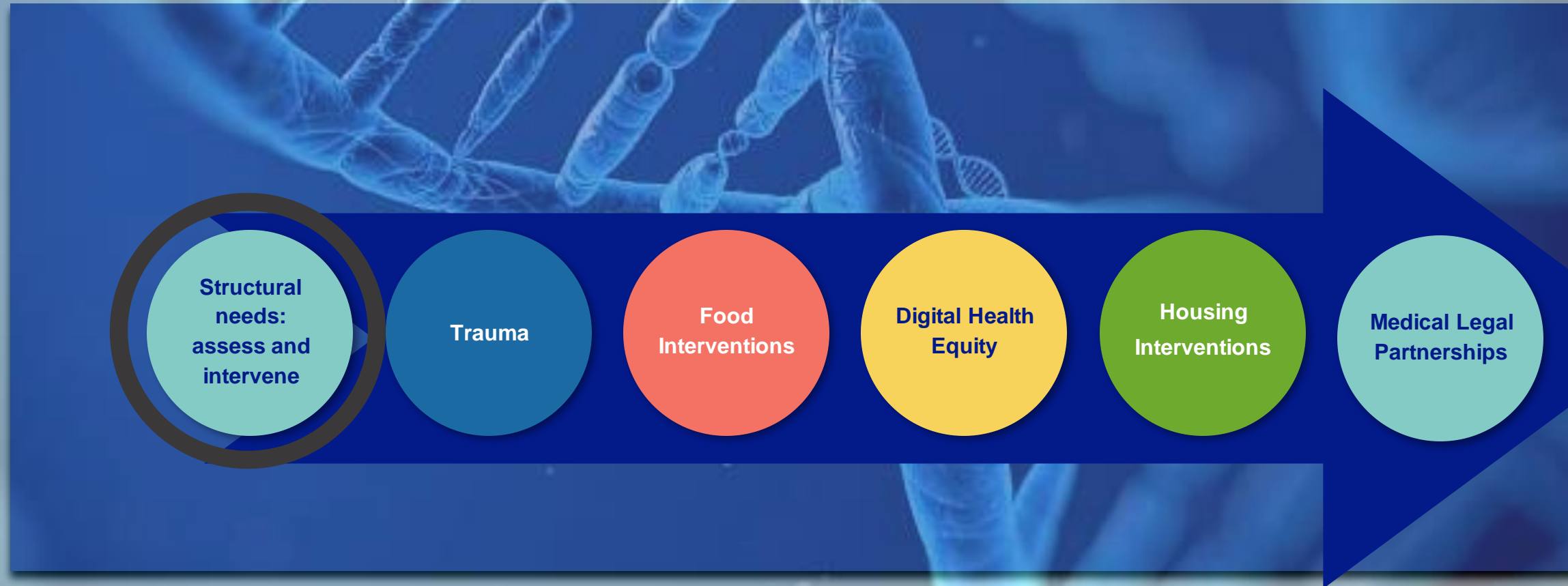


“I had concerns about the money and the cost of the meds. ... the coordinator gave a sheet about different non profit agencies to help fundraise.”

- Food insecurity
- Transportation barriers



# Key Structural Interventions







**Many people I care for may have experienced discrimination in their health care experiences. What have been your experiences?**

**Have their been experiences that caused you to lose trust in the health care system?**

**Structural  
needs tool**

**Asking about discriminatory  
experiences**



# Race based trauma and empowerment groups.

Veterans Health Administration recognition of racial trauma and its impacts on physical mental and

- Empowerment
- Value based goal setting
- Taking charge of emotions
- Social support
- Media balance

Trauma

**VA**

U.S. Department  
of Veterans Affairs



**Instead of Mr. X continues to be late to his dialysis visits ...**

**Mr. X has had repeated experiences with trauma and the police — therefore every time he comes into the building and has to pass the security screening, he feels high stress. We have plans to have him see our psychologists re: this racial trauma, as it has impacted his treatments and experience during dialysis.**

**Implement  
the structural  
needs tool**

**Person centered-care**



What can we  
do to create  
address  
structural  
inequity?



# THE PATH FORWARD

## TRY THIS

Person with a substance use disorder

Positive/negative drug screen

Return to use, recurrence

Not tolerating treatment, declined treatment at this time

Treatment failed the patient

Patient with complex health issues

Patient with diabetes, sickle cell disease, schizophrenia, ESRD, PAD, asthma

## NOT THAT

Addict, druggie, IVDA, substance abuse/abuser

Dirty/clean drug screen

Relapsed

Refused treatment

Patient failed treatment

Frequent flyer

Diabetic, sickler, schizophrenic, dialysis player, vasculopath, asthmatic



## THE PATH FORWARD

**Am I reinforcing stereotypes?**

**Does this blame the patient?**

**Does this include extraneous information?**

**Is the language biased or harmful?**

**How would my patient or their loved one feel if they read this?**

# NEEDS SCREENERS

Structural needs tool

Collect data regarding social needs and structural factors impacting care and then link this to actual resources



# CHW AS NAVIGATORS

Address Structural needs via CHW

## Contributors to Disparities



- Kidney disease knowledge (i.e. awareness of risk of kidney disease, of strategies to reduce progression of kidney disease, of kidney replace therapy options)
- Social challenges (e.g. poverty, access to food and housing, chronic toxic stress, immigration status, and caregiver burden)
- Psychosocial challenges
- Medical mistrust and discrimination
- Health literacy
- Primary language
- Health insurance



- Lack of training and comfort in discussing kidney disease, kidney replacement therapy, or patient-centered goals of care
- Patient-provider communication issues (e.g. insufficient time and use of language interpreters)
- Lack of culturally responsive training and care leading to bias and racism
- Lack of diverse healthcare workforce



- Availability of language interpreters
- Availability of comprehensive resources and support
- Complex navigation of health system
- Incentive and reimbursement structures
- Health insurance policies

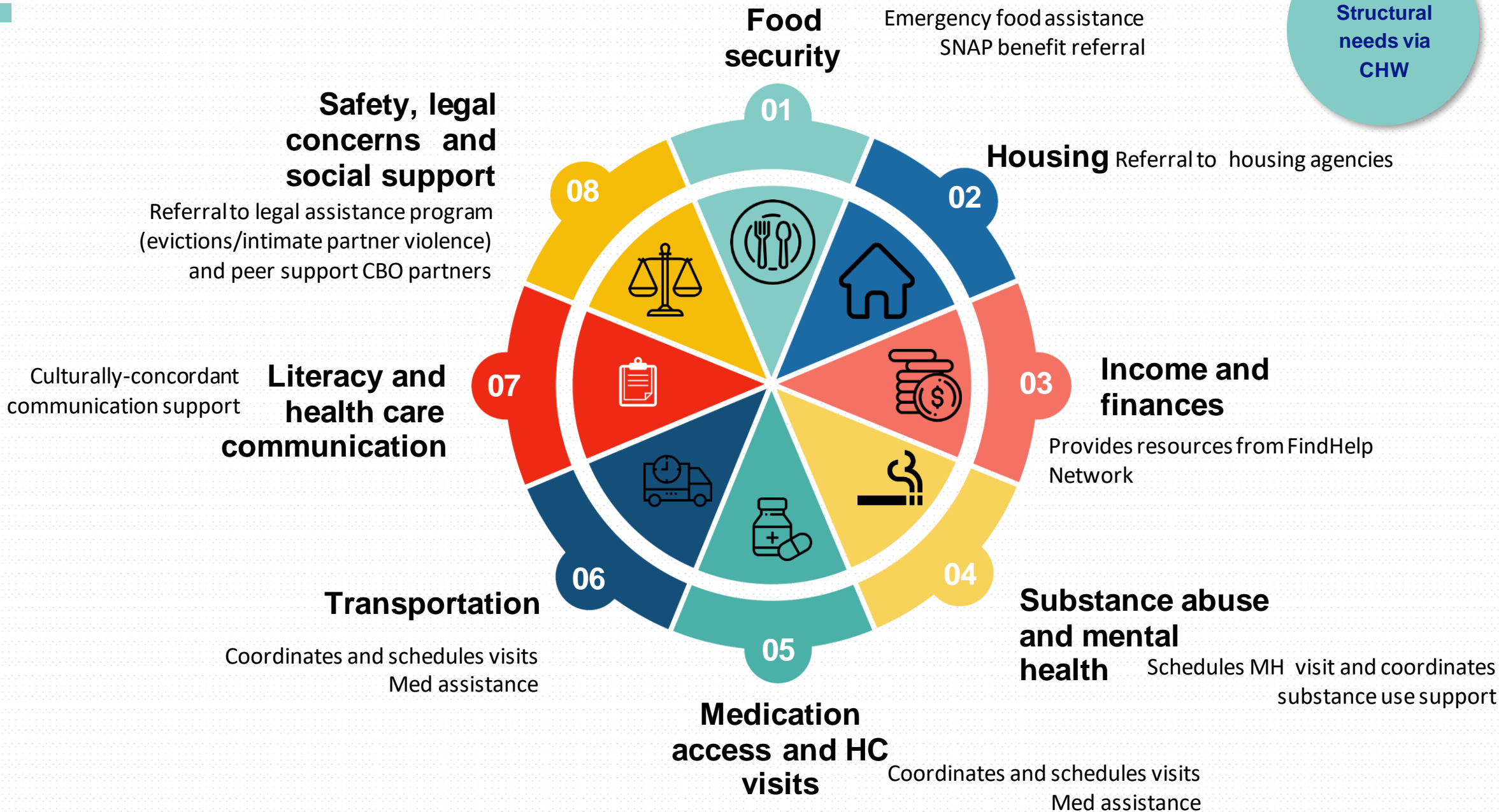


### Community-Health Workers

- Improve kidney disease knowledge and decision-making by providing culturally and language concordant education that is not rushed and meets individuals where they are at with respect to kidney disease-related health literacy
- Address social challenges by assessing for social risks and providing support with social challenges
- Reduce medical mistrust and discrimination by serving as a bridge to healthcare
- Providing support with language interpretation during key kidney-disease related visits
- Connect patients to care by referring to health insurance enrollment specialist and providing support with enrollment
- Improve patient activation and engagement in health by using motivational interviewing and patient activation skills
- Improve navigation of healthcare system



Address Structural needs via CHW



# ACCOUNTABILITY TO ACT



HEDIS moving to assess whether systems were able to both screen and then intervene on a positive social need

Interventions defined by Gravity Project value sets, and fall into 8 categories of intervention type.



Members who **received a corresponding intervention with in 30 days** of first positive screen

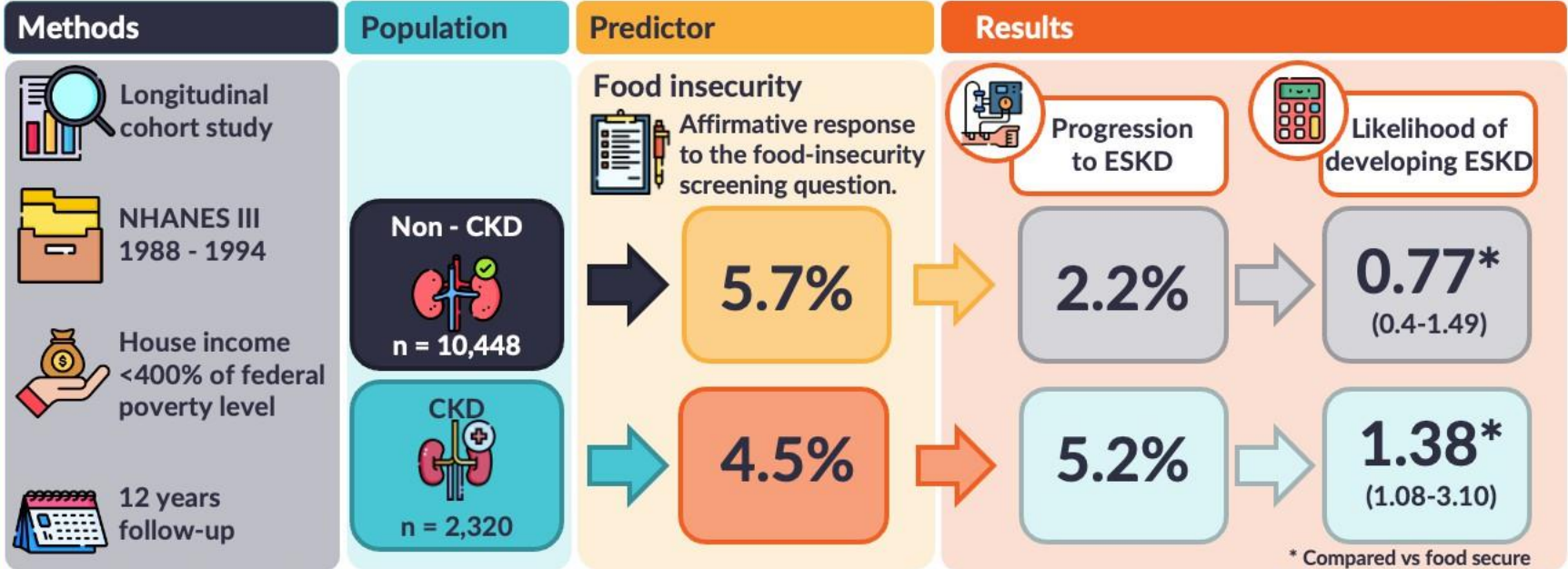
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Members with at least 1 positive result for food, housing, transportation

# FOOD AS MEDICINE



## Is food insecurity associated with progression to kidney failure in adults with CKD?



NHANES III, National Health and Nutrition Examination Survey; CKD, chronic kidney disease; ESKD, end-stage kidney disease

**Conclusion:** Among adults with CKD, food insecurity was independently associated with a higher likelihood of developing ESKD. Innovative approaches to address food insecurity should be tested for their impact on CKD outcomes.

Reference: Banerjee et al. *Food Insecurity, CKD, and Subsequent ESRD in US Adults*. 2017. 10.1053/j.ajkd.2016.10.035  
 Visual abstract by Denisse Arellano MD



Ms. Y has expressed that she has had ongoing difficulties eating meals in the morning.

We provided her a referral to the food pantry and will follow up with her next visit regarding the provided services

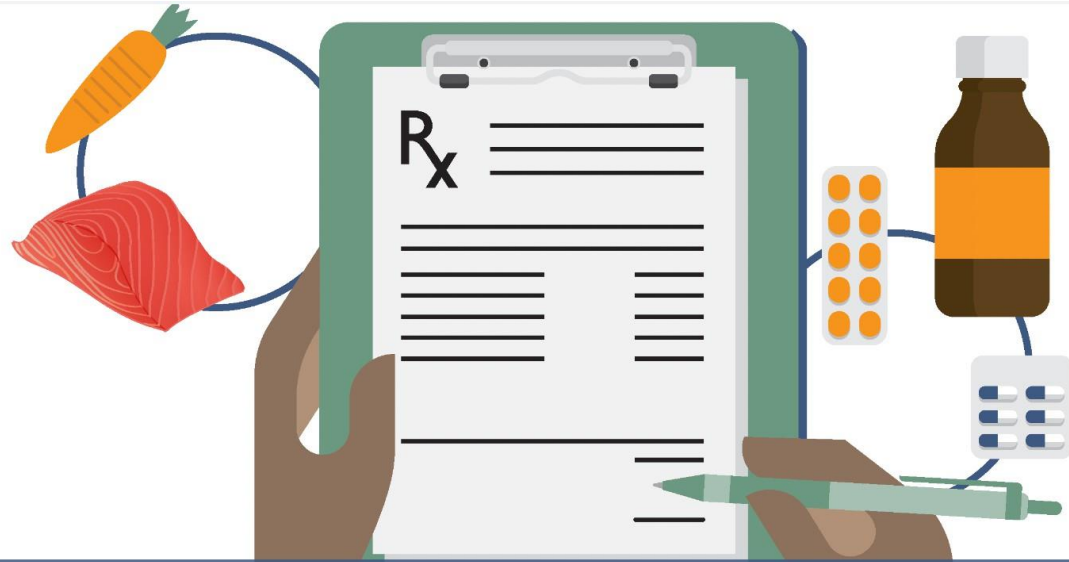


**Education and Outreach:** Some Ohio foodbanks have dieticians on staff or other community-based partnerships to promote nutrition education alongside hunger relief programs. The Ohio Association of Foodbanks network is also committed to connecting clients with federal nutrition programs, [like SNAP](#), that make adequate nutrition more affordable.

|| Address the social need and plan for addressing the need in the note

## FOOD AS MEDICINE

Move to ensure EHRs and systems are integrated with referral programs that can allow for screening and provide direct referrals



**Referrals and Food Pharmacies:** Foodbanks can facilitate connections between health care providers and the hunger relief network. Advanced partnerships include the *Food Pharmacy* model, which allows providers to screen patients for food insecurity and refer them directly to a designated community-based food pantry or on-site food pantry.



**What language is best to communicate with you in?**



**Have you had difficulty understanding the documents needed to access services? How about difficulty understanding these documents about your care?**

# DIGITAL EQUITY KEYS



# FIRST STEPS TO TRANSPLANT



6.

FIRST STEPS TO TRANSPLANT

## Important Things to Consider



There are risks to transplant surgery.



You will have a higher risk for infections and certain types of cancer.



You will need to take anti-rejection medicines for as long as your new kidney is working. The medications may cause side effects.



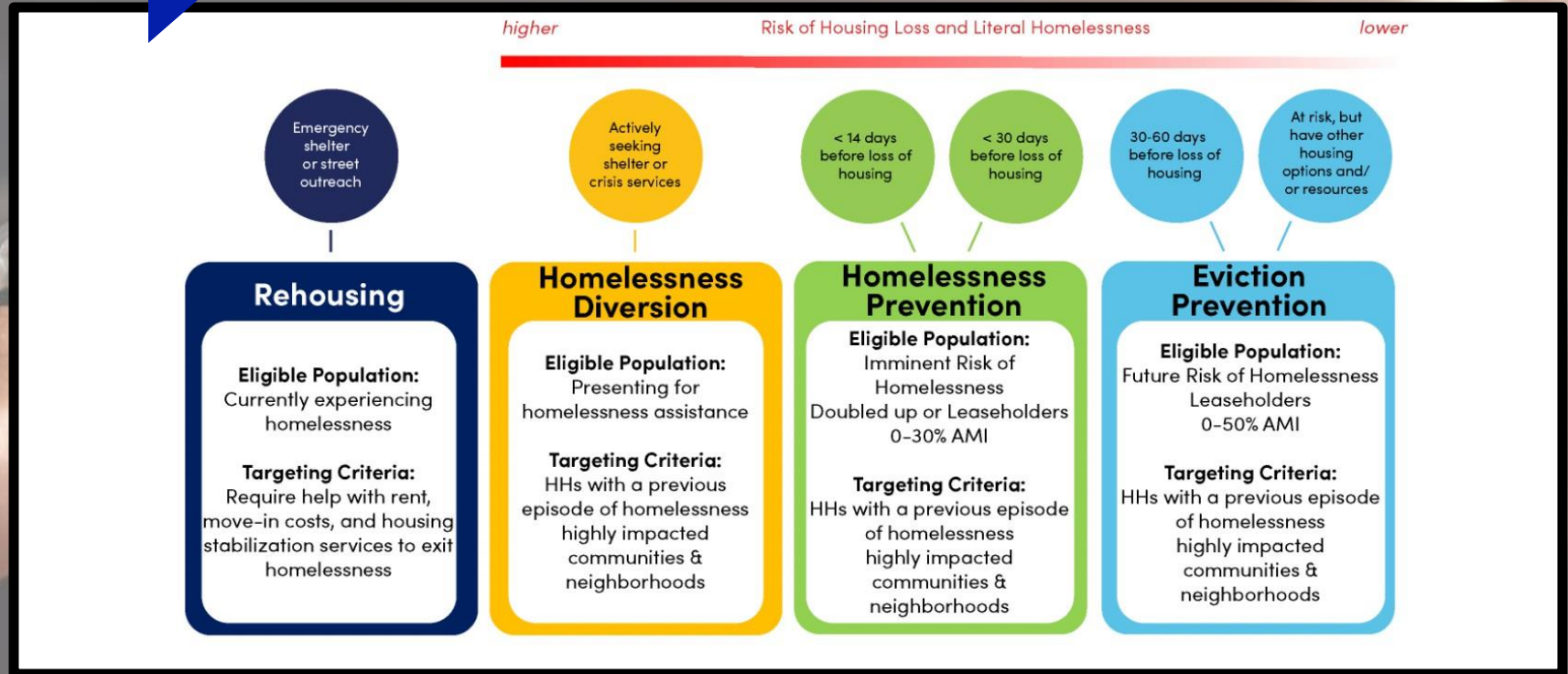
Although most transplants are successful and last for many years, how long they last can vary.



Thelma, Kidney Recipient



# HOUSING IS MEDICINE



## Housing First: A Cost-Effective Strategy

	Daily Cost per person	30 day cost per person
Supportive Housing	\$68	\$2,040
Shelter	\$136	\$4,080
Incarceration at Rikers Island	\$1,414	\$42,420
Hospitalization	\$3,609	\$108,270 <sup>[4]</sup>



<https://nashp.org/health-and-housing-introduction-to-cross-sector-collaboration/>

## LEGAL NEEDS



Some people describe that they have had legal challenges...

Are you concerned about the police or law enforcement?  
How can we help access public services?

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We referred Ms. Y to our medical legal team given ongoing concerns regarding her safety, and to address her recent job loss. We hope legal services may help address key barriers which have impacted her ability to get to her dialysis treatments.

|| Assess Legal Needs

# LEGAL NEEDS & MLP

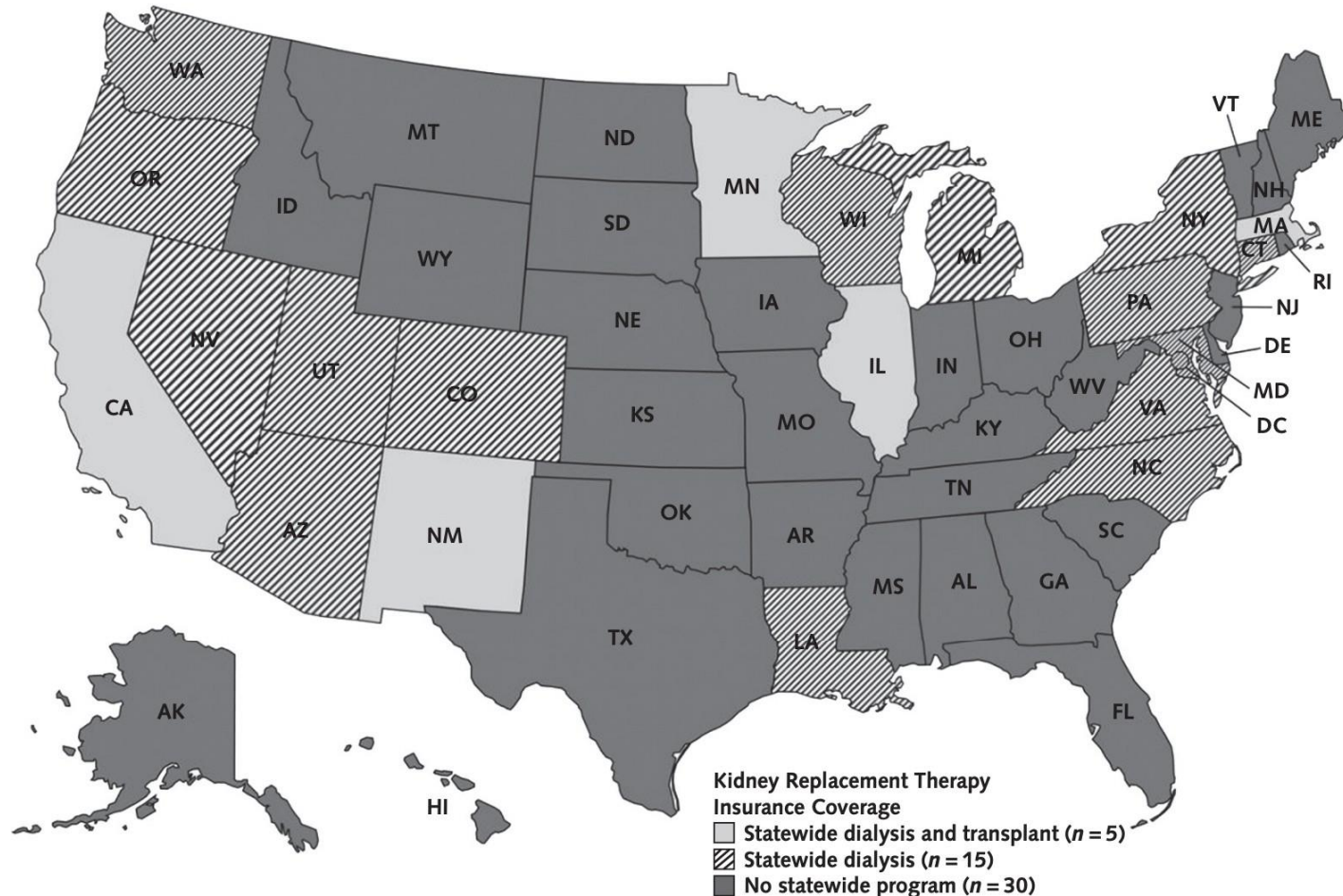
## Medical Legal Partnerships

Medical legal partnerships can address key structural factors that impair kidney care across multiple dimensions including housing, insurance, etc.

Common Social Determinant of Health	How Legal Services Can Help	Impact of Legal Services on Health / Health Care
<b>INCOME</b> Resources to meet daily basic needs 	<ul style="list-style-type: none"> <li>Appeal denials of food stamps, health insurance, cash benefits, and disability benefits</li> </ul>	<ol style="list-style-type: none"> <li>Increasing someone's income means s/he makes fewer trade-offs between affording food and health care, including medications.</li> <li>Being able to afford enough healthy food helps people manage chronic diseases and helps children grow and develop.</li> </ol>
<b>HOUSING &amp; UTILITIES</b> A healthy physical environment 	<ul style="list-style-type: none"> <li>Secure housing subsidies</li> <li>Improve substandard conditions</li> <li>Prevent evictions</li> <li>Protect against utility shut-off</li> </ul>	<ol style="list-style-type: none"> <li>A stable, decent, affordable home helps a person avoid costly emergency room visits related to homelessness.</li> <li>Consistent housing, heat and electricity helps people follow their medical treatment plans.</li> </ol>
<b>EDUCATION &amp; EMPLOYMENT</b> Quality educational and job opportunities 	<ul style="list-style-type: none"> <li>Secure specialized education services</li> <li>Prevent and remedy employment discrimination</li> <li>Enforce workplace rights</li> </ul>	<ol style="list-style-type: none"> <li>A quality education is the single greatest predictor of a person's adult health.</li> <li>Consistent employment helps provide money for food and safe housing, which also helps avoid costly emergency health care services.</li> <li>Access to health insurance is often linked to employment.</li> </ol>
<b>LEGAL STATUS</b> Access to jobs 	<ul style="list-style-type: none"> <li>Resolve veteran discharge status</li> <li>Clear criminal / credit histories</li> <li>Assist with asylum applications</li> </ul>	<ol style="list-style-type: none"> <li>Clearing a person's criminal history or helping a veteran change their discharge status helps make consistent employment and access to public benefits possible.</li> <li>Consistent employment provides money for food and safe housing, which helps people avoid costly emergency health care services.</li> </ol>
<b>PERSONAL &amp; FAMILY STABILITY</b> Safe homes and social support 	<ul style="list-style-type: none"> <li>Secure restraining orders for domestic violence</li> <li>Secure adoption, custody and guardianship for children</li> </ul>	<ol style="list-style-type: none"> <li>Less violence at home means less need for costly emergency health care services.</li> <li>Stable family relationships significantly reduce stress and allow for better decision-making, including decisions related to health care.</li> </ol>

# POLICY BARRIERS

Medical Legal Partnerships



**5 States** cover kidney transplant for undocumented individuals who account for **8-9% of kidney donors** yet only **< 1%** of kidney transplant recipients

## ADVOCACY MATTERS



Engage with multi stakeholder partners to advance equity enhancing policy including 1332 State Innovation Waiver



### NYLPI RELEASES STATEMENT ON NEW TRANSPLANT EQUITY LEGISLATION INTRODUCED BY NY CITY COUNCIL

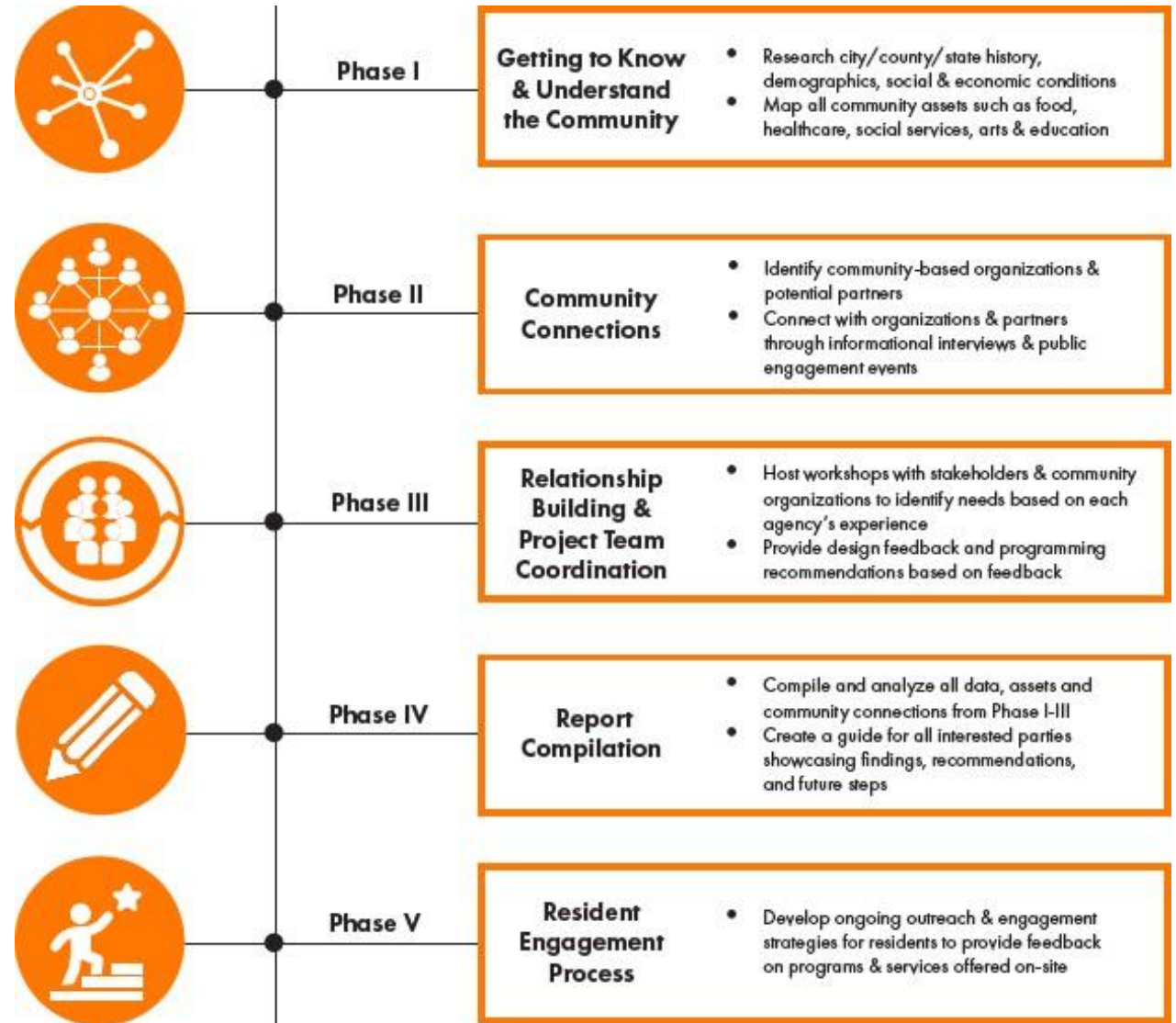
November 17, 2023

Disability Justice, Health Justice, Immigrant Justice, Media Coverage, News, Transplant Equity



# ABCD

ABCD = Asset based community development can enhance care engagement strategies and is essential for advancing structurally competent care



## **Name structural violence**

Carefully distinguish root causes and name structural factors when describing causes of patient behaviors (e.g. missed dialysis, etc)

## **Center patient-community expertise**

Center patient and community stakeholders throughout research with attention to transparency and the use of data

## **Invest in structural solutions**

Invest in sustainable partnerships with CBOs and community facing organizations caring for individuals with kidney disease

## **Promote Cross-Sector Solutions**

Expand funding for collaborative partnerships; cross sector collaborations are essential for rigor innovation and equity

THANK YOU

**Our generous patients and caregivers**





# Person-Centered Care

**Michael Mace**

Renal Social Worker & Transplant Recipient



# Examples of Person-Centered Care

- Could you please share examples and steps kidney professionals can take, to provide equitable care for individuals with ESKD who have unmet health-related social needs?

# Person-Centered Care Key Considerations

- Could you please share key considerations how kidney professionals can do, to look beyond the symptoms and diseases that represent the downstream consequences due to upstream factors?

# Q & A

# Thank you for attending the Structural Competency Training Series for Kidney Professionals!

- Please complete the training evaluation
- Obtain your CE credits via the link on the evaluation form



Recorded presentation and slides for Module 1 and 2 are available at:  
[esrdncc.org/professional/healthequity](https://esrdncc.org/professional/healthequity)

Facebook: @ESRD.NCC | Instagram: @ESRD\_NCC | X: @ESRDNCC

