VETERANS HEALTH ADMINISTRATION

Office of Health Equity

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OFFICE OF HEALTH EQUITY

Created in 2012

Vision: To ensure that VHA provides appropriate individualized health care to each Veteran in a way that-

- Eliminates disparate health outcomes and
- Assures health equity

OFFICE OF HEALTH EQUITY GOALS

- 1. Leadership: Strengthen VA leadership to address health inequalities and reduce health disparities.
- 2. Awareness: Increase awareness of health inequalities and disparities.
- 3. Health Outcomes: Improve outcomes for Veterans experiencing health disparities.
- **4. Workforce Diversity:** Improve cultural and linguistic competency and diversity of the VHA workforce.
- **5. Data, Research and Evaluation:** Improve data and diffusion of research to achieve health equity.

OFFICE OF HEALTH EQUITY POPULATIONS

Veterans who experience greater obstacles to health related to:

- Race or ethnicity
- Gender
- Age
- Geographic location
- Religion
- Socio-economic status

- Sexual orientation
- Mental health
- Military era
- Cognitive /sensory / physical disability

OFFICE OF HEALTH EQUITY WEBSITE

https://www.va.gov/healthequity



Learn what the PACT Act means for your VA benefits >>

TODAY'S CYBERSEMINAR

Racial and Ethnic Differences in the Prescription of SGLT2 Inhibitors and GLP1 Receptor Agonists Among Patients With Type 2 Diabetes in the Veterans Health Administration System



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Prescription Patterns of Cardiovascular and Kidney Protective Therapies Among Patients with Type 2 Diabetes in the VHA

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Presenter Disclosure



Research Support:

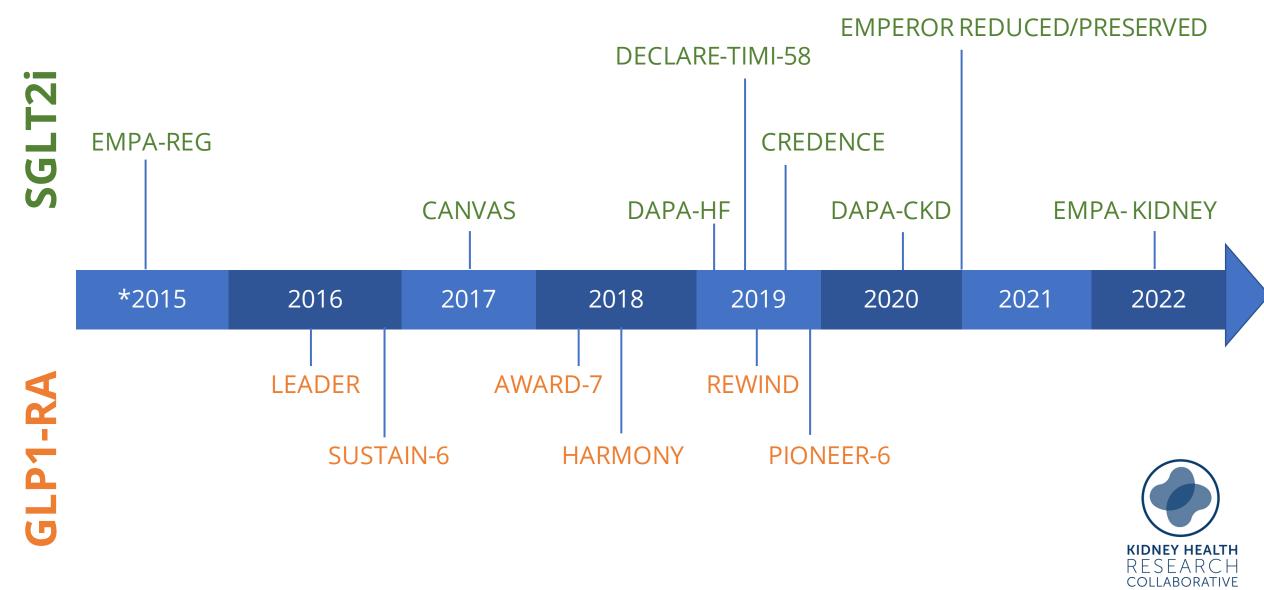
- NHLBI K99/R00 career development award
- Bayer Pharmaceuticals (Kidney Health Research Collaborative UCSF/SFVA)

Outline



- Discuss paradigm shift in cardiac and kidney preventive care among patients with type 2 diabetes
- Explain racial and ethnic disparities in prescription
- Identify other structural barriers to the adequate implementation of these therapies

Timeline of key SGLT2i and GLP1-RA clinical trials



^{*2008:} FDA guidance for new diabetic therapies on CVD risk

Cardiac and kidney protective effects of SGLT2i and GLP1-RA



- Reduction in cardiovascular mortality
- Reduction in atherosclerotic cardiovascular events
- Reduction in incident and progressive heart failure
- Reduction in chronic kidney disease progression

Paradigm shift in cardiac and kidney prevention among patients with type 2 diabetes



- Current ADA guidelines recommend a sodium glucose cotransporter 2 inhibitor (SGLT2i) and/or a glucagon-like receptor 1 agonist (GLP1-RA) irrespective of glycemic control among patients with T2D <u>and</u>:
 - Atherosclerotic cardiovascular disease (ASCVD) or high ASCVD risk
 - Heart failure: SGLT2i
 - Chronic kidney disease (CKD):
 - -SGLT2i if eGFR 20-60 ml/min/1.73 m² or ACR>30 mg/g
 - -GLP1-RA otherwise

Given the implications of this paradigm shift for Veteran health and existing health disparities in cardiovascular and kidney diseases, we sought to address the following questions:



- Are there racial and ethnic disparities in SGLT2i and GLP1-RA prescriptions?
- If so, are these disparities explained by patient- and/or systemrelated factors?



Research

JAMA | Original Investigation

Association of Race and Ethnicity With Prescription of SGLT2 Inhibitors and GLP1 Receptor Agonists Among Patients With Type 2 Diabetes in the Veterans Health Administration System

Julio A. Lamprea-Montealegre, MD, MPH, PhD; Erin Madden, MPH; Sri Lekha Tummalapalli, MD, MBA, MAS; Carmen Peralta, MD, MAS; Torsten B. Neilands, PhD; Paola K. Garcia, MD; Anthony Muiru, MD, MPH; Leah Karliner, MD; Michael G. Shlipak, MD, MPH; Michelle M. Estrella, MD, MHS

Prescription of SGLT2i and GLP1-RA by race and ethnicity in the VHA system



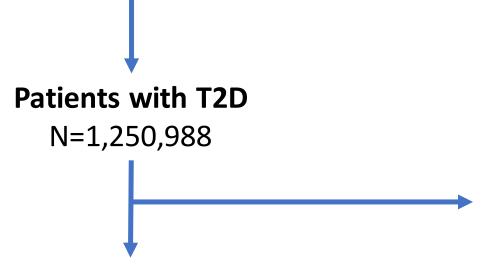
- STUDY SETTING: Veterans Health Administration System (VHA)
- STUDY DESIGN:
 - Cross-sectional analyses of SGLT2i and GLP1-RA prescription
 - January 1st, 2019 to December 31st, 2020
- EXPOSURE: Self-identified race and ethnicity categories
- **OUTCOME:** Prevalent prescription, defined as any active prescription of SGLT2i or GLP1-RA during the study period

Study population: VHA 2019-2020



Patients with ≥2 outpatient primary care encounters in 2019-2020





Patients with T2D remaining after exclusions

N=1,197,914

SGLT2i: 128,523 (11%)

GLP1-RA: 92,497 (8%)

Exclusions:

- Post-kidney transplant
- ESKD on dialysis
- •CKD and eGFR<15
- Patients in hospice

Low Prescription of SLGT2i and GLP1-RA in key co-morbid conditions across the VHA









ASCVD (n=307,467) SGLT2i GLP1-RA Heart Failure (n=79,991) SGLT2i GLP1-RA

CKD (n=331,031) SGLT2i GLP1-RA

14%

9%

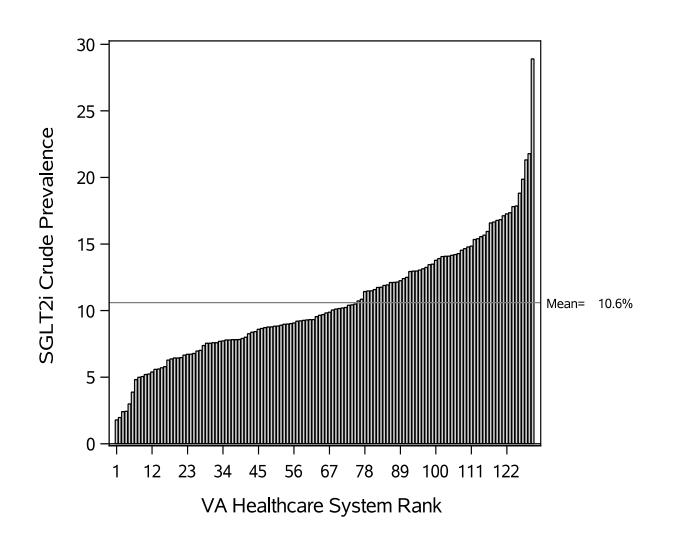
14%

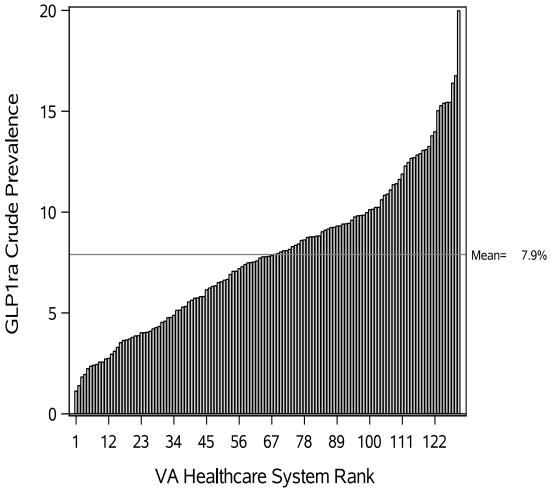
12%

11% 10%

High variability in SGLT2i and GLP1-RA prescriptions across VHA stations







Lamprea-Montealegre et al. JAMA 2022. Sep 6;328(9):861-871

Select demographic and clinical characteristics by race categories



Characteristic	White (n=850,648)	Black (n=234,932)	Asian, Native Hawaiian, or Other Pacific Islander (n=24,633)	American Indian or Alaska Native (n=10,127)	Unknown (n=67,749)
Age (mean); years	69	63	64	65	68
Hispanic or Latino ethnicity	8%	2%	8%	13%	19%

Black Veterans have lower likelihood of being prescribed SGLT2i

Race group	Patients prescribed SGLT2i (%)	Adjusted OR (95% CI)
White	11.3	Reference
Black or African American	8.8	
Demographic factors only		0.69 (0.68, 0.70)
Additional patient-level characteristics		0.73 (0.71, 0.74)
Additional system-level characteristics		0.72 (0.71, 0.74)

Black and Hispanic Veterans have lower likelihood of being prescribed SGLT2i

Race group	Patients prescribed SGLT2i (%)	Adjusted OR (95% CI)
White	11.3	Reference
Black or African American	8.8	
Demographic factors only		0.69 (0.68, 0.70)
Additional patient-level characteristics		0.73 (0.71, 0.74)
Additional system-level characteristics		0.72 (0.71, 0.74)
Not Hispanic or Latino	10.7	Reference
Hispanic or Latino	11.0	
Demographic factors only		0.96 (0.94, 0.99)
Additional patient-level characteristics		0.90 (0.88, 0.93)
Additional system-level characteristics		0.90 (0.88, 0.93)

Black Veterans have lower likelihood of being prescribed a GLP1-RA

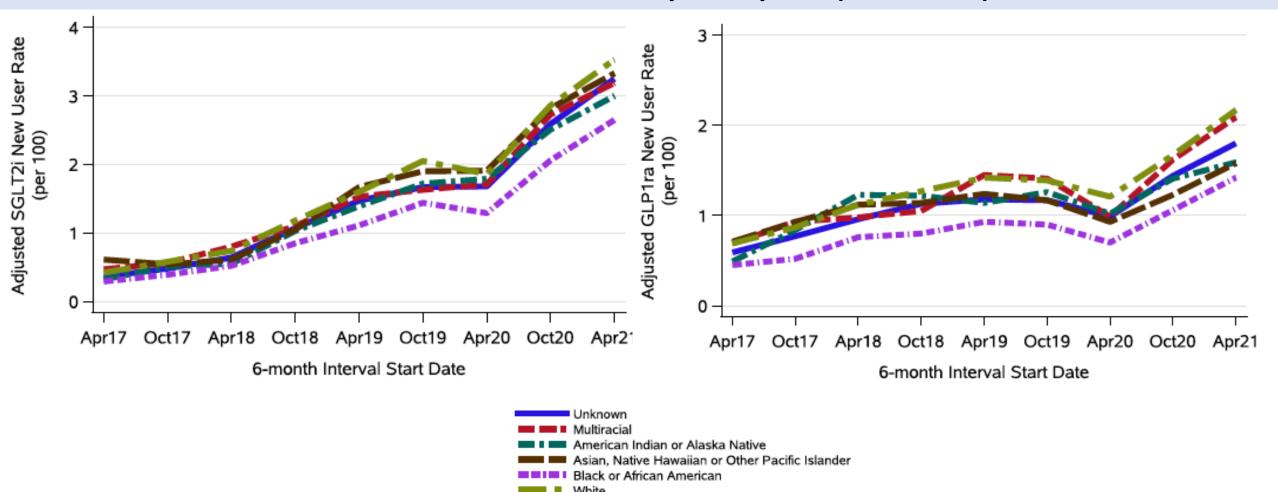
Race group	Patients prescribed SGLT2i (%)	Adjusted OR (95% CI)
White	8.2	Reference
Black or African American	6.1	
Demographic factors only		0.64 (0.63, 0.66)
Additional patient-level characteristics		0.64 (0.63, 0.66)
Additional system-level characteristics		0.64 (0.63, 0.66)

Black and Hispanic Veterans have lower likelihood of being prescribed a GLP1-RA

Race group	Patients prescribed SGLT2i (%)	Adjusted OR (95% CI)
White	8.2	Reference
Black or African American	6.1	
Demographic factors only		0.64 (0.63, 0.66)
Additional patient-level characteristics		0.64 (0.63, 0.66)
Additional system-level characteristics		0.64 (0.63, 0.66)
Not Hispanic or Latino	7.8	Reference
Hispanic or Latino	7.1	
Demographic factors only		0.95 (0.92, 0.98)
Additional patient-level characteristics		0.88 (0.85, 0.91)
Additional system-level characteristics		0.88 (0.85, 0.91)

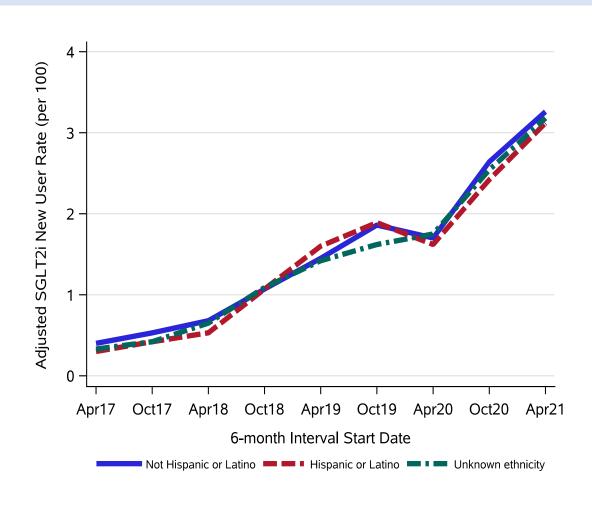
Lower <u>incident SGLT2</u>i and GLP1-RA prescription among racial minorities

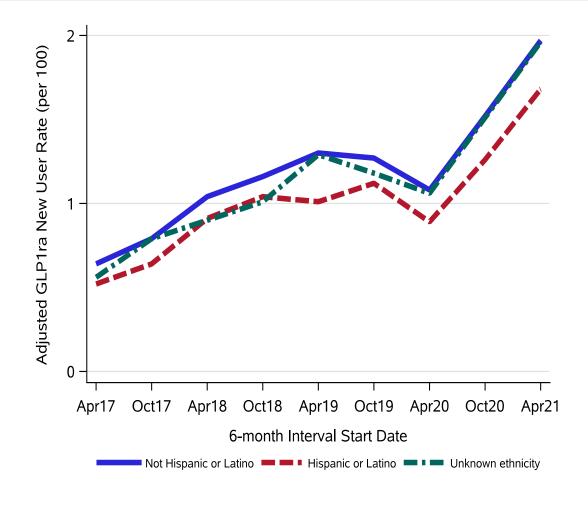
Incident SGLT2i and GLP1-RA prescription (2017-2021)



Lower <u>incident SGLT2</u>i and GLP1-RA prescription among patients of Hispanic ethnicity

Incident SGLT2i and GLP1-RA prescription (2017-2021)





Other structural barriers to implementation



- Novelty
- Need for PCP centered multidisciplinary teams of care

Marked increase in SGLT2i and GLP1-RA prescriptions among Veterans receiving endocrinology care



	SGLT2i		GLP1-RA	
Endocrine care	% prescribed	Multivariable model Odds Ratio (95% CI)	% prescribed	Multivariable model Odds Ratio (95% CI)
No. of visits				
0*	9%	Reference	6%	Reference
1	16%	1.26 (1.21, 1.07)	12%	1.37 (1.29, 1.45)
2	18%	1.37 (1.30, 1.44)	15%	1.55 (1.44, 1.66)
3+	28%	2.02 (1.86, 2.19)	29%	2.70 (2.44, 1.99)

^{*0} endocrine visits=1,037,983 (86% of the sample)

Other structural barriers to implementation



- Novelty
- Need for PCP centered multidisciplinary teams of care
- Historical barriers to adequate CKD care
 - Albuminuria detection gap: ~50% of patients with T2D do not get yearly albuminuria testing
 - Treatment gap (ACEI/ARBs are under-prescribed) even in patients with albuminuria

Albuminuria associated with lower likelihood of SGLT2i and GLP1-RA prescription



	SGLT2i		GLP1-RA		
KDIGO Stage	% prescribed	Odds Ratio		Multivariable model Odds Ratio (95% CI)	
Urinary albumin to creatinine ratio (mg/g)					
A1: <30	11%	Reference	9%	Reference	
A2: 30-300	13%	0.96 (0.94, 0.98)	10%	1.00 (0.98, 1.02)	
A3: >300	11%	0.89 (0.87, 0.91)	11%	0.95 (0.93, 0.98)	

Conclusions



- Prescription of SGLT2i and GLP1-RA is low among Veterans with T2D.
- There are pervasive racial and ethnic disparities in SGLT2i and GLP1-RA prescriptions, even after accounting for a wide array of patientand system-level characteristics.
- Need to contextualize quantitative findings on racial and ethnic disparities: mixed methods research.
- Adequate implementation of these therapies requires coordinated efforts to overcome barriers to care.





- Erin Madden, MPH.
- Michael G. Shlipak. MD, MPH.
- Michelle M. Estrella. MD, MHS.
- Colleagues at the SFVA/UCSF KHRC.

Discussion

Looking forward: VA, novel diabetes medications, and how we can advance health equity

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KEY TAKEAWAYS

- Known racial/ethnic disparities exist in non-VA studies for the prescription of SGLT2i and GLP1-RA medications
- Within VA, Dr. Lamprea-Montealegre's study also suggests overall racial/ethnic disparities in the prescription of both classes of medications and a wide variation in overall prescribing of these medication classes across VA facilities
- Financial constraints do not alone account for these disparities
- Additionally, these classes of medications are under-prescribed nationally as well as across VHA among those eligible for diabetes treatment intensification and for whom additional kidney and cardiovascular benefits would support their use

VA RESPONSE

- Office of Health quickly added a call for QI project proposals to its annual QI Pilot Award RFP process for FY23
- Awarded pilot projects represent diverse geography and focus on decreasing racial/ethnic disparities, rural/urban disparities, and increasing overall utilization of SGTL2i and GLP-1 RA medications
- OHE is convening a QI collaborative/community of practice for the awardee cohort

PROMOTING PHARMACOEQUITY

In your clinical practice:

- Examine utilization of these medications among your eligible patients
- Understand and be able to address potential patient concerns around taking newer medications
- Address potential clinical assumptions/bias around patient adherence
- Overcome clinical therapeutic inertia through clinical team/PACT education
- Leverage pharmacist-driven approaches to intensifying treatment where possible

QUESTIONS

Discussant Q&A

Audience Q&A

Thank you!