

Today's Webinar Agenda			
Time	Title	Speaker	
00:00 - 00:10	Introductions and Announcements	Nicolas Cuttriss, MD, MPH, FAAP	
00:10 - 00:25	Halting CKD Progression: From Optimizing Hypertension Management to Newer Agents	Joseph Vassalotti, MD	
00:25 - 00:30	Presentation Q & A	Questions submitted via Q & A by attendees	
00:30 - 00:35	Case presentation	Pablo Fragoso, RPh	
00:35 – 00:55	Case questions and recommendations	Hub team faculty & attendees Please provide your clarifying questions and recommendations via the Q&A	
00:55 - 01:00	Wrap-up and announcements	Nicolas Cuttriss, MD, MPH, FAAP	

# Learning Objectives

Participants should be able to:

- Enhance hypertension detection and management in your patients with type 2 diabetes
- Describe the role of SGLT2 inhibitors in minimizing CKD progression in patients with type 2 diabetes
- Use the latest clinical evidence regarding the use of nonsteroidal mineralocorticoid receptor antagonists for treating patients with hypertension and type 2 diabetes

### Presenting Faculty

Joseph Vassalotti, MD



Clinical Professor of Medicine Icahn School of Medicine at Mount Sinai, New York, NY Chief Medical Officer National Kidney Foundation

# **Disclosure Information**

Boston University School of Medicine asks all individuals involved in the development and presentation of Accredited Continuing Education activities to disclose all financial relationships with ineligible companies. This information is disclosed to all activity participants prior to the start of the educational activity. Boston University School of Medicine has procedures to mitigate all relevant financial relationships with ineligible companies. In addition, faculty members are asked to disclose when any unapproved use of pharmaceuticals and devices is being discussed.

In accordance with the Standards for Integrity and Independence in Accredited Continuing Education, all relevant financial relationships with ineligible companies that faculty, planners, authors and anyone who may be in control of content have been mitigated. Faculty members do not plan on discussing unlabeled/investigational uses of a commercial product.

Faculty Presenters			
Robert Gabbay, MD, PhD	Presenting Faculty	Consulting fees/advisory boards: Lark, Health Reveal, Vida Health, Onduo	
Crystal A. Gadegbeku, MD	Presenting Faculty	Consulting fees/advisory boards: Fresenius Kidney Care. Research Study	
		Advisory Board: Bristol Myers Squibb	
George Thomas, MD	Presenting Faculty	Consulting fees: Up to Date	
		Contracted research: Boehringer Ingelheim	
Katherine R. Tuttle, MD, FASN, FACP,	Presenting Faculty	Consulting fees/advisory boards: AstraZeneca, Bayer HealthCare	
FNKF		Pharmaceuticals, Boehringer Ingelheim, Eli Lilly and Company, Gilead Sciences,	
		Inc., Goldfinch Bio, Inc., Novo Nordisk	
		Contracted research: Bayer HealthCare Pharmaceuticals, Goldfinch Bio, Inc.,	
		Travere Therapeutics, Inc.	
Joseph Vassalotti, MD	Presenting Faculty	Consulting fees/advisory boards: Boehringer Ingelheim, Eli Lilly and Company,	
		Renalytix	

## Disclosure Information, cont.

Nicolas Cuttriss, MD, MPH, FAAP	Course Director, Core Faculty	Nothing to disclose	
Nayan Arora, MD	Core Faculty	Consulting fees/advisory boards: George Clinical	
Matthew Bouchonville, MD, CDCES	Core Faculty	Nothing to disclose	
Kelly Close, MBA	Patient Advocate, Core Faculty	Founder: The DiaTribe Foundation and Close Concerns,	
		education, advocacy and news service organizations	
Phyllisa Deroze, PhD	Patient Advocate, Core Faculty	Nothing to disclose	
Korey Hood, PhD	Core Faculty	Consulting fees/advisory boards: Cecelia Health, Insulet	
		Corporation, LifeScan Diabetes Institute	
Sean Oser, MD	Core Faculty	Consulting fees/advisory boards: Dexcom, Inc.	
Daniel Saltman, MD	Core Faculty	Nothing to disclose	
Jay H. Shubrook, DO	Core Faculty	Consulting fees/advisory boards: Abbott, AstraZeneca,	
		Bayer HealthCare Pharmaceuticals Inc., Eli Lilly and	
		Company, Novo Nordisk	
Lisa Taylor, DNP, FNP-BC, BC-ADM, CDCES	CNE Nurse Advisor, Core Faculty	Nothing to disclose	
Julie Valdes, PharmD	Core Faculty	Nothing to disclose	
Planning Committee			
Linda G. Baer, MSPH, CHCP	Planning Committee Member	Nothing to disclose	
Michael Burk, BS	BU, Senior Program Manager	Nothing to disclose	
Samantha Gordon, MS	Manager, Accreditation	Nothing to disclose	
Ilana Hardesty, MLA	BU, Assistant Director	Nothing to disclose	
Catherine Sullivan, MD	BU, CME Accreditation Reviewer	Nothing to disclose	
Sara C. Miller, MS, CPHQ	Planning Committee Member	Nothing to disclose	
Julie White, MS, CHCP	Director, CME	Nothing to disclose	

### Accreditation

#### Physicians:

Gio Addressing Disparities in Diabetes With Project ECHO: A Focus on Diabetes-Related CKD SESSIONS ON THE THIRD WEDNESDAY OF THE MONTH

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Boston University School of Medicine and the ECHO Diabetes Action Network. Boston University School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Boston University School of Medicine designates this live activity for a maximum of 1.0 AMA PRA Category 1 Credit(s)<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

#### Nurses:

This educational activity has been provided by Boston University School of Medicine Continuing Nursing Education and jointly-provided by the ECHO Diabetes Action Network.

Boston University School of Medicine Continuing Nursing Education is accredited with distinction as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation.

#### Contact Hours: 1.0

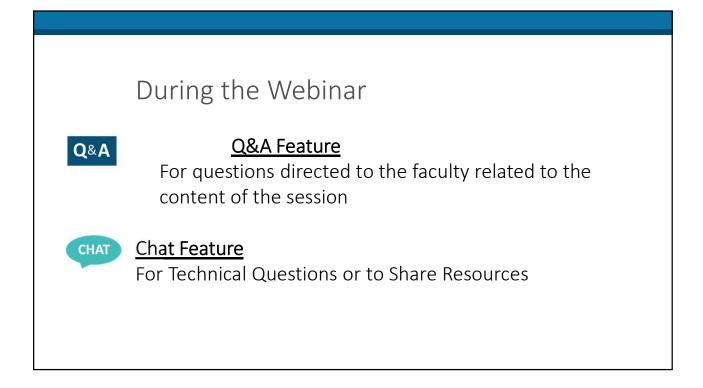
Project ECHO® collects registration and participation data for some teleECHO® programs. Your individual data will be kept confidential. These data may be used for reports, maps, communications, surveys, quality assurance, evaluation, research, and to inform new initiatives.

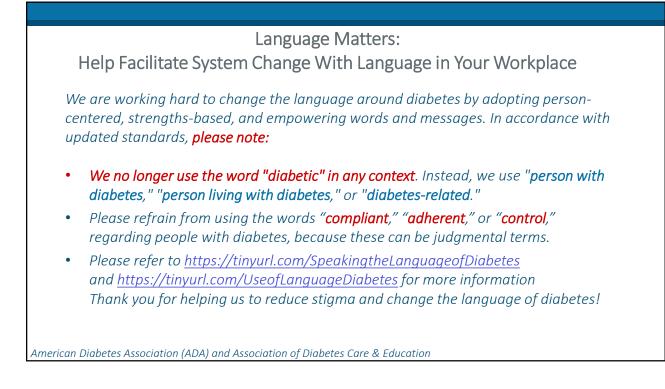
# Assessment, Evaluation and How to Claim CME/CE Credit

In order to successfully complete this activity, you are required to attend the entire live virtual presentation and complete a posttest assessment and evaluation. A link to the assessment will be provided at the end of the presentation and in a follow-up email you will receive after the program. Upon completing the assessment, you will be provided with a link to complete the evaluation and claim your credit on Boston University School of Medicine's website.

#### **Presentation Slides**

A link to today's slides can be found in the Chat and in the Announcement email sent yesterday.



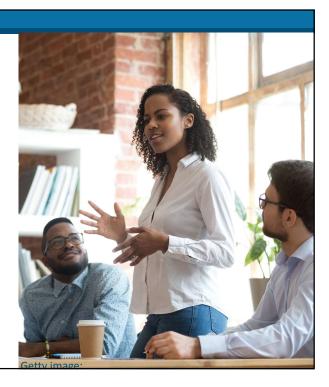


Our ECHO is a safe space for everyone.

We have a zero-tolerance policy for language that is discriminatory, disrespectful, racist, sexist, bullying, or offensive. As such, any participant will be removed from the webinar if you engage in any such behavior.

Thank you for keeping our ECHO a safe space for all.

Thank you for joining us. The program will begin shortly.





Addressing Disparities in Diabetes With Project ECHO:

A Focus on Diabetes-Related CKD SESSIONS ON THE THIRD WEDNESDAY OF THE MONTH Thank you for joining us. The program will begin shortly.

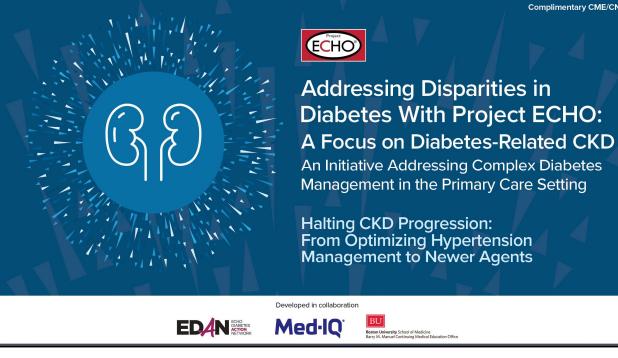
Questions? Looking for resources or more information?

Visit our websites: https://cvent.me/qvDxg3 https://www.echodiabetes.org/

# Acknowledgment of Commercial Support

This activity is supported by an educational grant from Bayer HealthCare Pharmaceuticals.

Complimentary CME/CNE





Addressing Disparities in **Diabetes With** Project ECHO:

A Focus on Diabetes-Related CKD SESSIONS ON THE THIRD WEDNESDAY OF THE MONTH

#### Welcome! Thank you for joining!

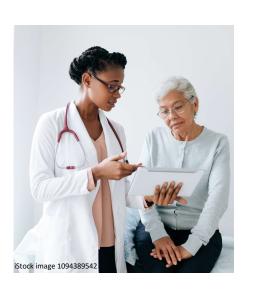
#### Acknowledgment

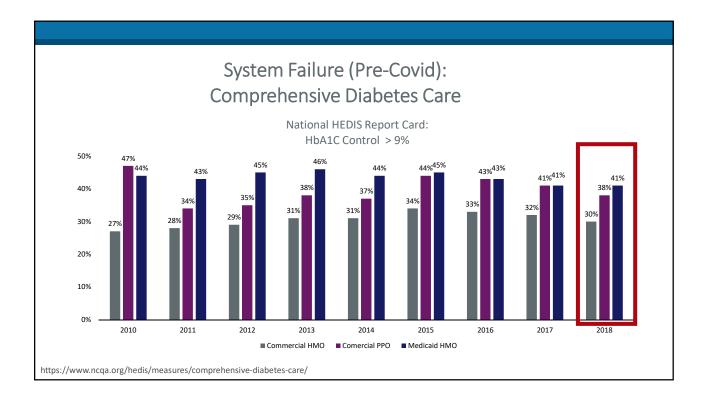
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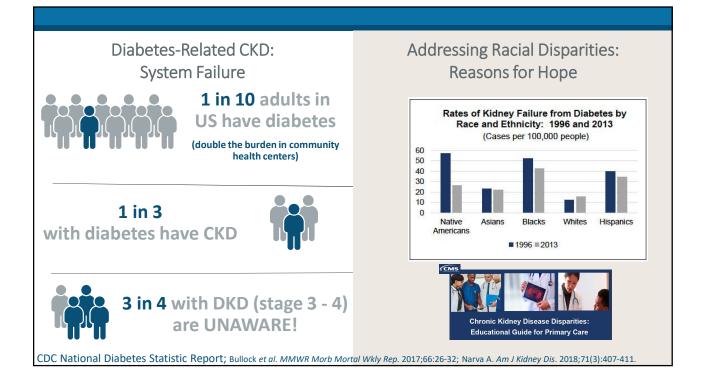
### Our Goal

Address the urgent and persistent needs of vulnerable populations of people with diabetes complicated by CKD.

We seek to engage clinicians in the primary care setting by empowering and increasing their capacity to screen, diagnose, and manage renal complications of diabetes using the Project ECHO<sup>®</sup> (Extension for Community Healthcare Outcomes) model.







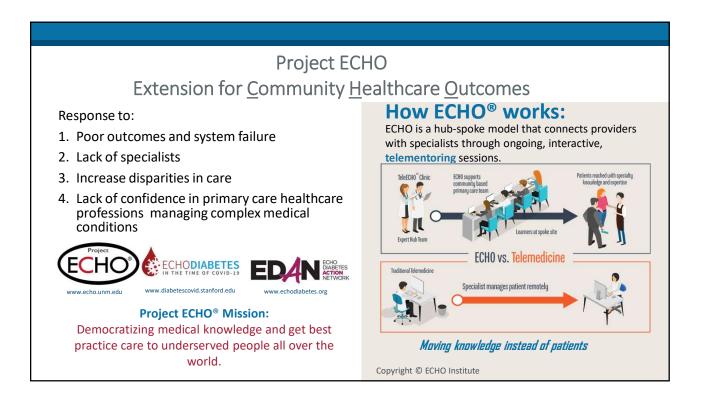


#### Language Matters: Help Facilitate System Change With Language in Your Workplace

We are working hard to change the language around diabetes by adopting personcentered, strengths-based, and empowering words and messages. In accordance with updated standards, **please note:** 

- We no longer use the word "diabetic" in any context. Instead, we use "person with diabetes," "person living with diabetes," or "diabetes-related."
- Please refrain from using the words "compliant," "adherent," or "control," regarding people with diabetes, because these can be judgmental terms.
- Please refer to <u>https://tinyurl.com/SpeakingtheLanguageofDiabetes</u> and <u>https://tinyurl.com/UseofLanguageDiabetes</u> for more information Thank you for helping us to reduce stigma and change the language of diabetes!

American Diabetes Association (ADA) and Association of Diabetes Care & Education



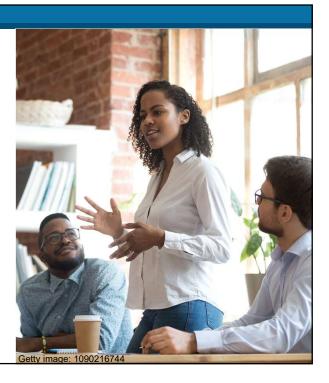
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00:55 - 01:00	Wrap-up and announcements Nicolas Cuttriss, MD, MPH, FAAP		

	Housekeeping Items for Webinar
Q&A	For questions about the <i>content</i> of the Webinar or case presentations, please use the Q & A Feature
CHAT	For questions about <b>technical issues or for sharing resources</b> , please use the <b>Chat Feature</b>
	<u>https://cvent.me/qvDxg3</u> website will have additional resources related to diabetes and CKD in primary care
Evaluation	Please complete the <b>assessment</b> at the end of the session (essential for CME/CE credit)

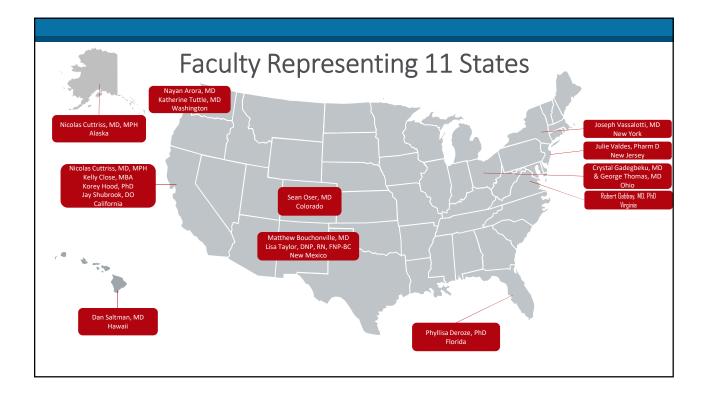
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Thank you for joining us!



### **Series** Topics



January 19: Approaches to Identifying CKD & the New Kidney Health Evaluation

Katherine R. Tuttle, MD, FASN, FACP, FNKF, Providence Health Care



February 16: Looking Beyond Glucose Control: Best Practices to Address Diabetes-Related CKD

Robert Gabbay, MD, PhD, FACP, American Diabetes Association





March 16: Addressing CKD Disparities and Social Determinants of Health to Achieve Diabetes Management Goals

Crystal Gadegbeku, MD, Cleveland Clinic George Thomas, MD, Cleveland Clinic



April 20: Halting CKD Progression: From Optimizing Hypertension Management to Newer Agents

Joseph Vassalotti, MD, National Kidney Foundation

#### Joseph Vassalotti, MD



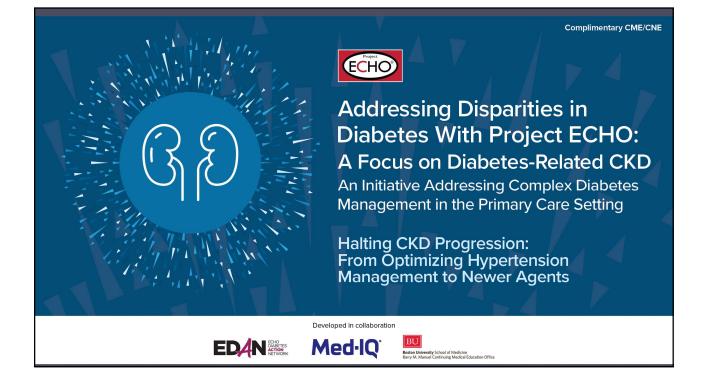
Clinical Professor of Medicine Icahn School of Medicine at Mount Sinai, New York, NY Chief Medical Officer National Kidney Foundation

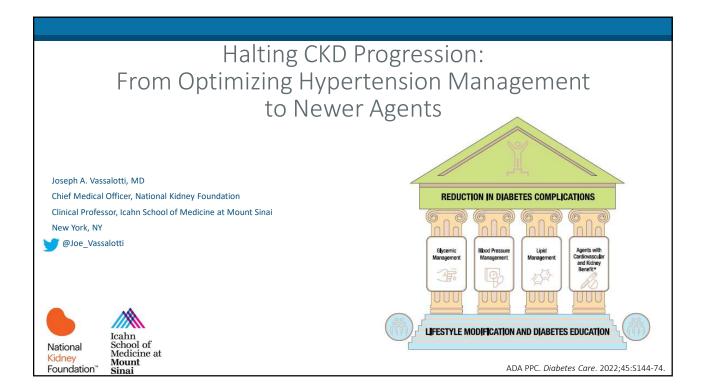
Presents: Halting CKD Progression: From Optimizing Hypertension Management to Newer Agents



Addressing Disparities in Diabetes With Project ECHO:

A Focus on Diabetes-Related CKD SESSIONS ON THE THIRD WEDNESDAY OF THE MONTH

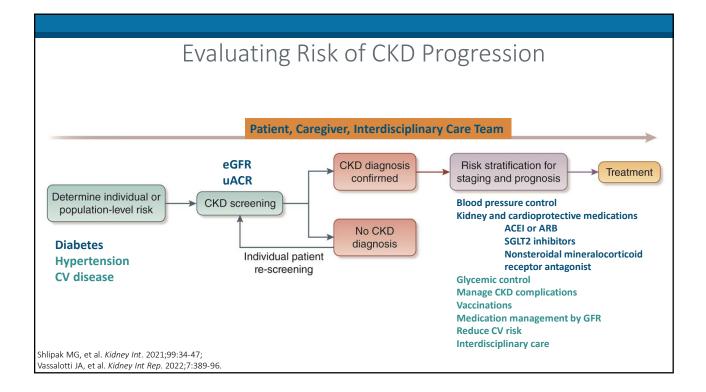




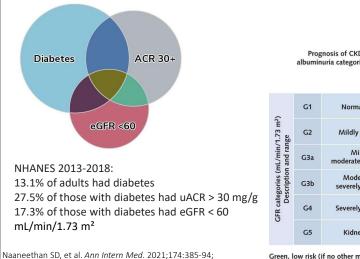
## Learning Objectives

Upon completion, participants should be able to:

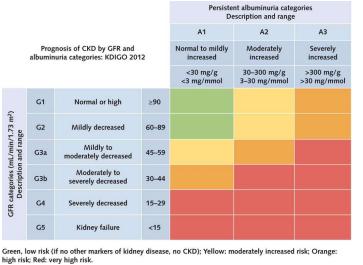
- Enhance hypertension detection and management in your patients with type 2 diabetes
- Describe the role of SGLT2 inhibitors in minimizing CKD progression in patients with type 2 diabetes
- Use the latest clinical evidence regarding the use of nonsteroidal mineralocorticoid receptor antagonists for treating patients with hypertension and type 2 diabetes

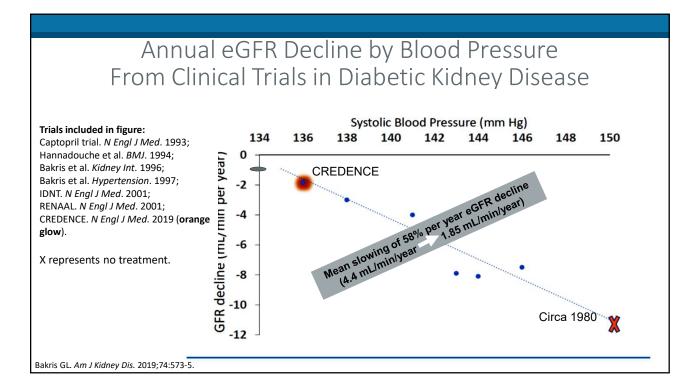






USRDS. https://adr.usrds.org/2021.



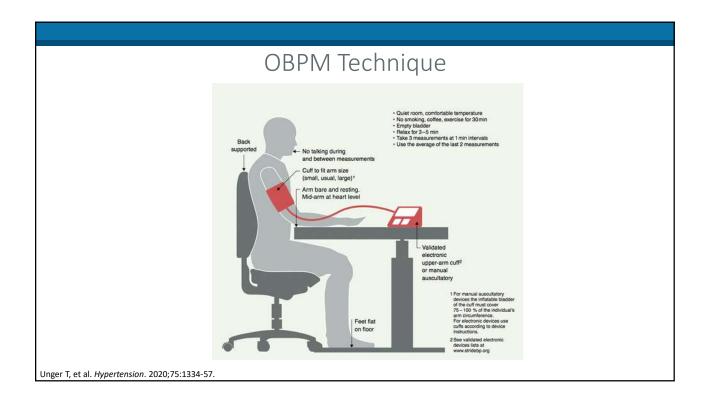


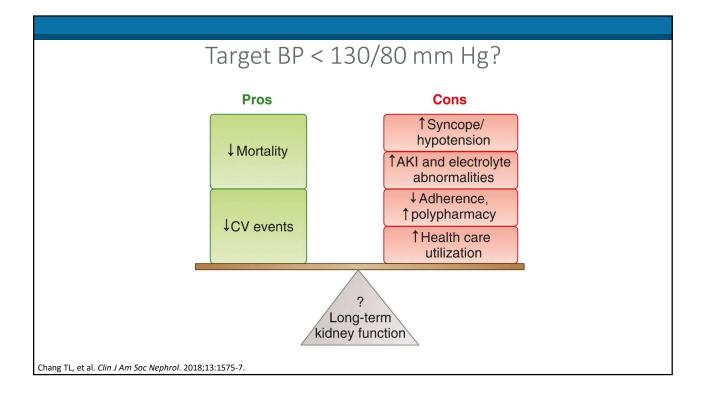
Methods of BP Measurement

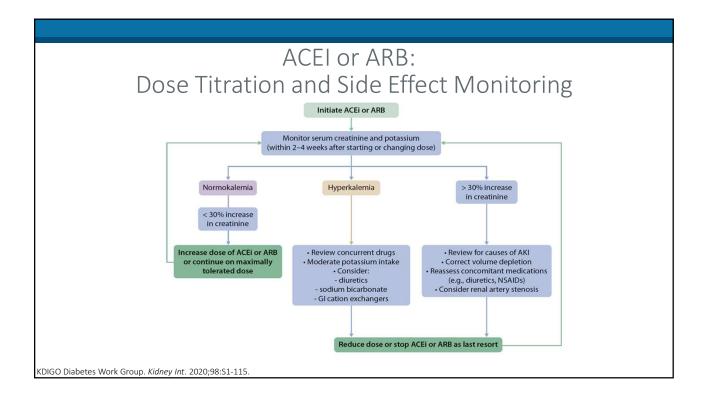
Office BP Monitoring (OBPM)

Home BP Monitoring (HBPM)

Ambulatory BP Monitoring (ABPM)



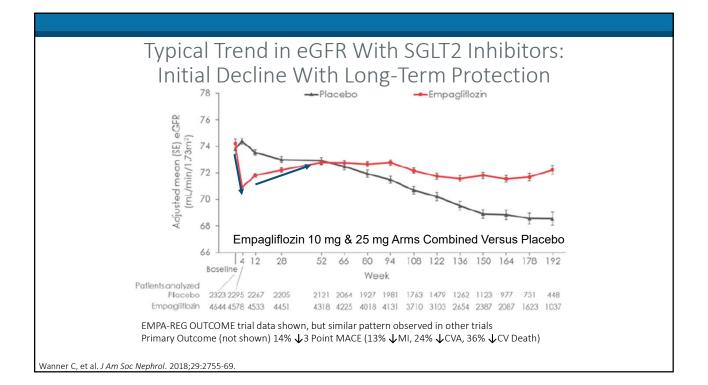


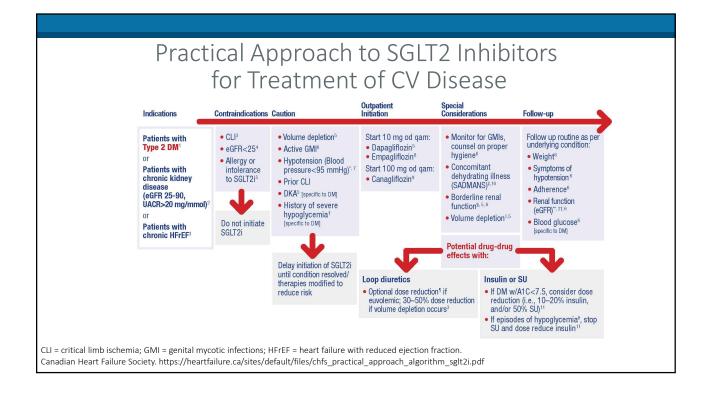


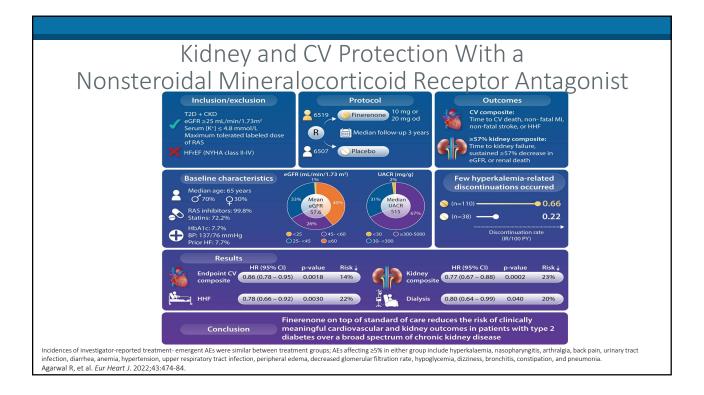
Kidney and CV Protection				
With SGLT2 Inhibitors				
	DAPA-CKD <sup>1</sup>	CREDENCE <sup>2</sup>		
Composite Kidney/CV Outcome <sup>a</sup>	HR (95% Cl): 0.61 (0.51-0.72); <i>P</i> < .001	HR (95% CI): 0.70 (0.59-0.82); <i>P</i> = .00001		
Composite Kidney Outcome <sup>b</sup>	0.56 (0.45-0.68); <i>P</i> < .001	0.66 (0.53-0.81); <i>P</i> < .001		
CV Death or Hospitalization for HF	0.71 (0.55-0.92); P = .009	0.69 (0.57-0.83); <i>P</i> < .001		
All-Cause Mortality	0.69 (0.53-0.88); P = .004	0.83 (0.68-1.02); <i>P</i> = NR		
Comparison of studies should be interpreted with caution due to differences in study design				

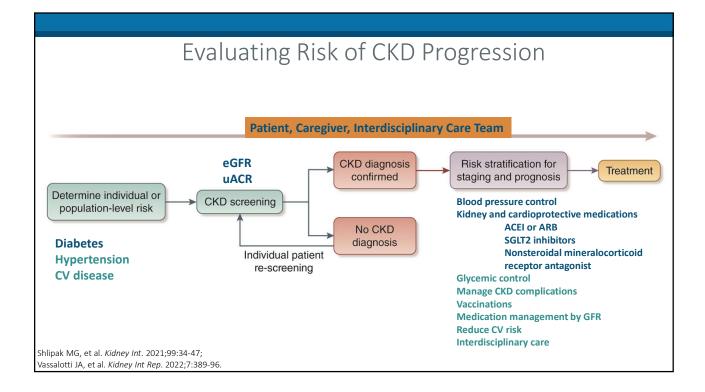
<sup>a</sup>Composite consisted of sustained ≥ 50% eGFR decline, ESKD, or renal or CV death in DAPA-CKD and doubling of serum creatinine, ESKD, or renal or CV death in CREDENCE. <sup>b</sup>Composite consisted of sustained ≥ 50% eGFR decline, ESKD, or renal death in DAPA-CKD and doubling of serum creatinine, ESKD, or renal death in CREDENCE.

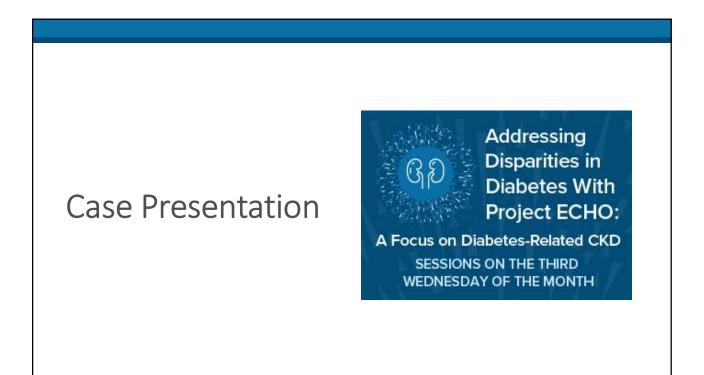
<sup>1</sup>Heerspink HJL, et al. N Engl J Med. 2020;383:1436-46; <sup>2</sup>Perkovic V, et al. N Engl J Med. 2019;380:2295-306. <sup>1</sup>Incidences of SAEs and Aes were overall similar in the dapagliflozin and placebo groups; <sup>2</sup>Rates of SAEs and Aes were similar in canagliflozin and placebo groups; fracture and lower-limb amputations were not different between groups; DKA were low but higher in the canagliflozin group











70 year-old Afro-Hispanic female with type 2 diabetes (T2D) complicated by CKD, obesity, depression and elevated liver function. She has lost 2 adult children and currently relies on her living daughter to care for her. Although physically able, she stays in bed all day until her daughter returns home. Behavioral health consultation pending and currently on anti-depressant but CBT and counseling challenging due to language barrier. LFTs also increased (ALT61, AST 51, GGT 297) and considering Gl referral. Most recent Alt (8.7%) increased from 6 months prior (7.9%) and most recent random fasting glucose (168) increased from previous (136). Kidney disease/Cardiometabolic disease:

• CKD: recent eGFR 43mL/min/1.73m<sup>2</sup>; 24hr UCr clearance 10 mL/min (Ucr 35, Ur 24rc r 177, Cr 1.27)

- ASCVD: Yes (22.5%) Heart Failure: No
- Hypertension: Yes Hypercholesterolemia: Yes
- Recent BP: 130/74 mmHg BMI: 34 Weight 79 kg Recent lipid panel: TC:158, LDL 72, HDL 66, TG 116
- Diabetes: Diagnosed with T2D ~15 years ago with last A1c 8.7% and currently on SGLT2i, DPP4i and metformin therapy. CGM recently prescribed but not using yet. Previously on insulin bad experience but open to retrying.

#### Current Medication Management:

- Lisinopril-HCTZ (Prinzide<sup>®</sup>) 20mg-25mg
- Metoprolol tartrate (Lopressor®) 100mg BID
- Atorvastatin (Lipitor®) 20mg
- Duloxetine HCl (Cymbalta<sup>®</sup>) 60mg DR
- ASA 81mg

#### Social support and concerns:

• Last PQH-9: 8 (Higher when preformed by Spanish-speaking pharmacist vs. by daughter translating) Last PHQ-2: 2

- Last Diabetes Distress Scale: Not reported
- Barriers: Language. CBT challenging due to translation services.

• **Support:** Lives with daughter + grandchildren. Relies on daughter for translation and care. Interested in home health aid but unsure if qualifies <u>Questions to the ECHO Diabetes Community</u>: Are there any additional labs to order from nephrology perspective? How urgent is hepatology evaluation/referral? A1c rising – should thyroid be evaluated for staying in bed all day or other non dietary/lifestyle changes be looked into? How to approach depression and behavioral health while awaiting referral?

- Vit C 1000mgOmeprazole 40mg
- Glucose-lowering agent(s):
- SGLT2i: Empagliflozin (Jardiance®) 25mg daily
- DPP4i: Sitagliptin (Junuvia®) 100mg daily
- Metformin 1000mg BID