



# Management of Diabetes and CKD –circa 2022

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The 6th Annual

## HEART IN DIABETES

CME Conference – June 24-26, 2022

Loews Philadelphia Hotel – 1200 Market St, Philadelphia PA 19107

Also Interactive Online Streaming and On-Demand are Available





# Disclosures

- Professor Rossing has received the following:
  - Consultancy and/or speaking fees (to his institution) from Astellas, AstraZeneca, Bayer, Boehringer Ingelheim, Eli Lilly, Gilead, MSD, Mundipharma, Novo Nordisk, Vifor, and Sanofi Aventis
  - Research grants from AstraZeneca and Novo Nordisk

# Living Guidelines

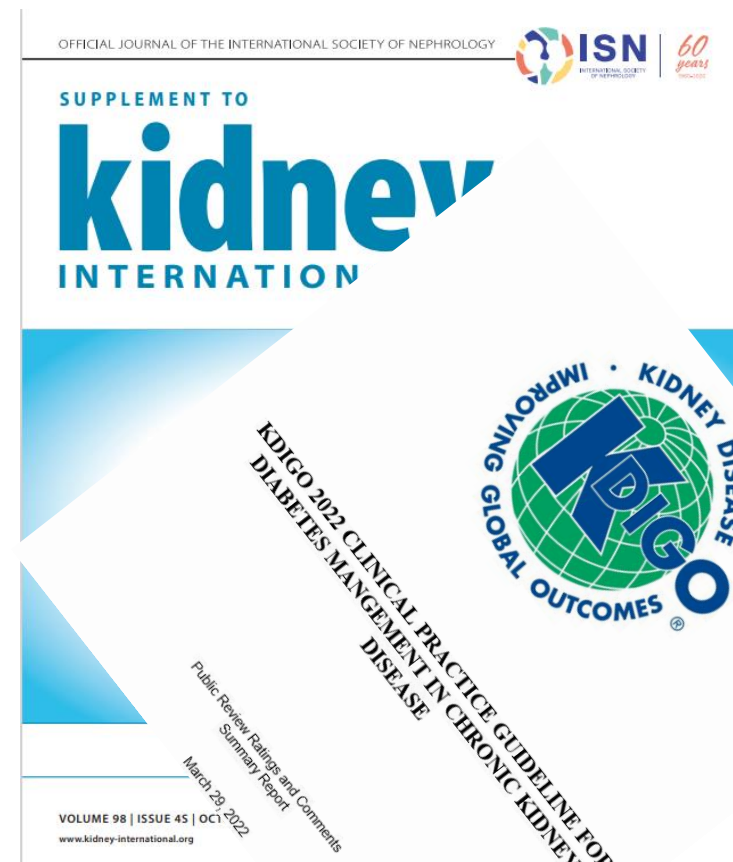


### Living Standards Updates

31 May 2022. Sections 10 and 11 have been updated to include evidence from trials of medication effects in patients with type 2 diabetes on heart failure, cardiovascular, and chronic kidney disease outcomes, including EMPEROR-Preserved, PRESERVED-HF, FIDELIO-DKD, and FIGARO-DKD, and to remove information associated with the discontinued trial PROMINENT.

The changes are described in detail in: **Addendum. 10. Cardiovascular Disease and Risk Management: Standards of Medical Care in Diabetes—2022.** *Diabetes Care* 2022;45(Suppl. 1):S144–S174.

And in: **Addendum. 11. Chronic Kidney Disease and Risk Management: Standards of Medical Care in Diabetes—2022.** *Diabetes Care* 2022;45(Suppl. 1):S175–S184.





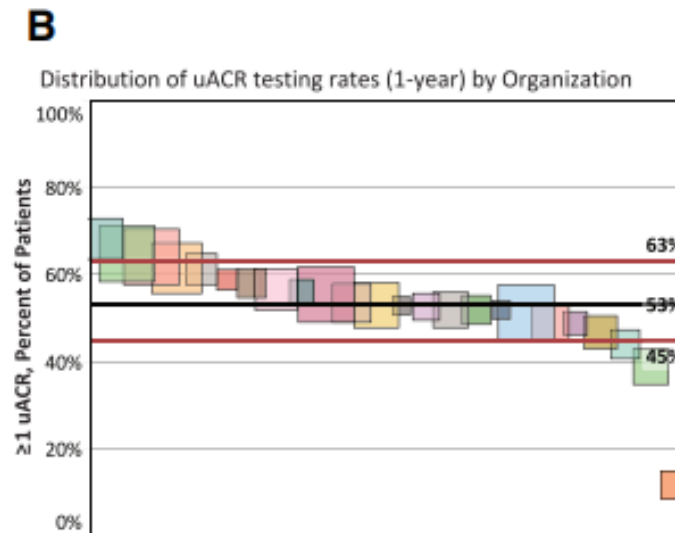
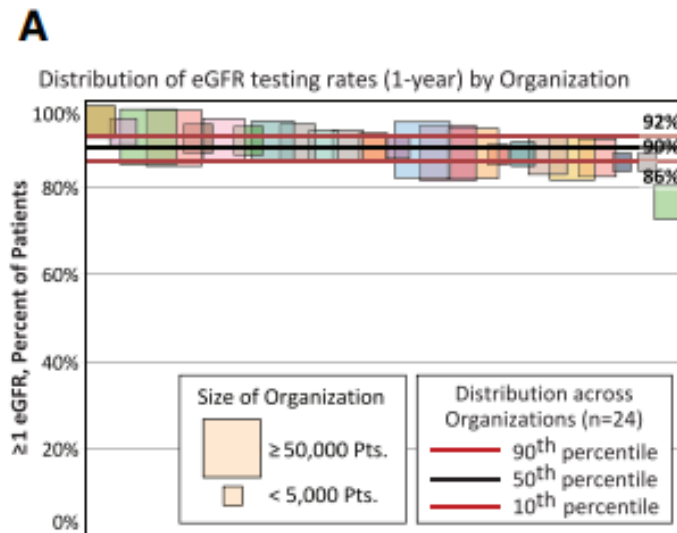
# Chronic Kidney Disease Testing Among Primary Care Patients With Type 2 Diabetes Across 24 U.S. Health Care Organizations

*Diabetes Care* 2021;44:2000–2009 | <https://doi.org/10.2337/dc20-2715>

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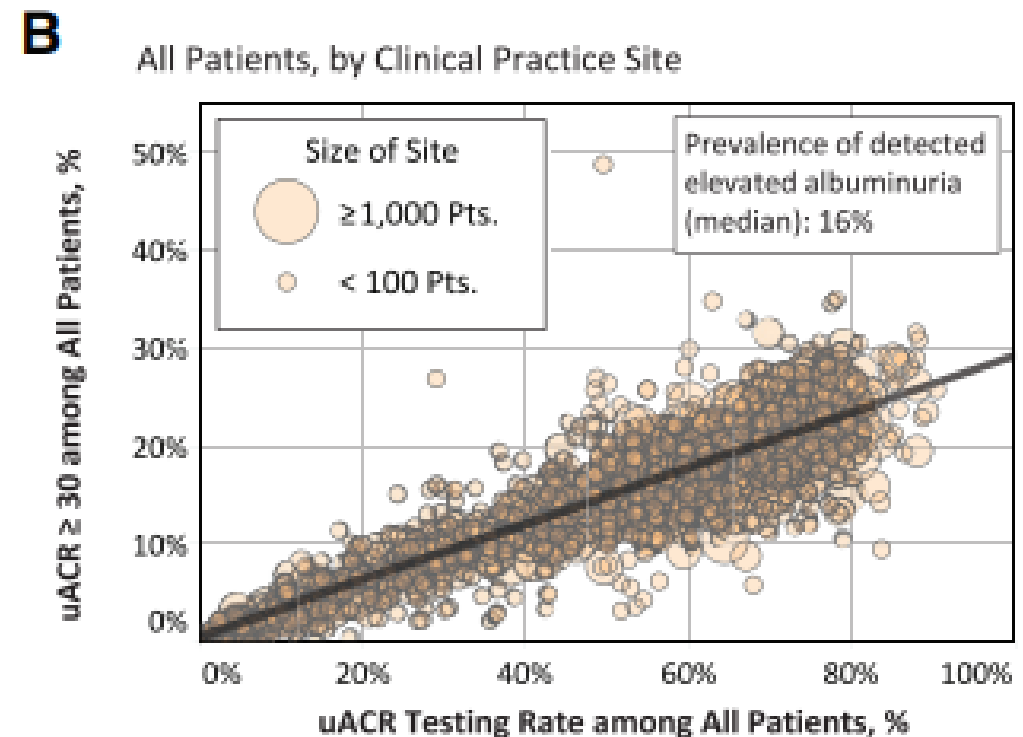
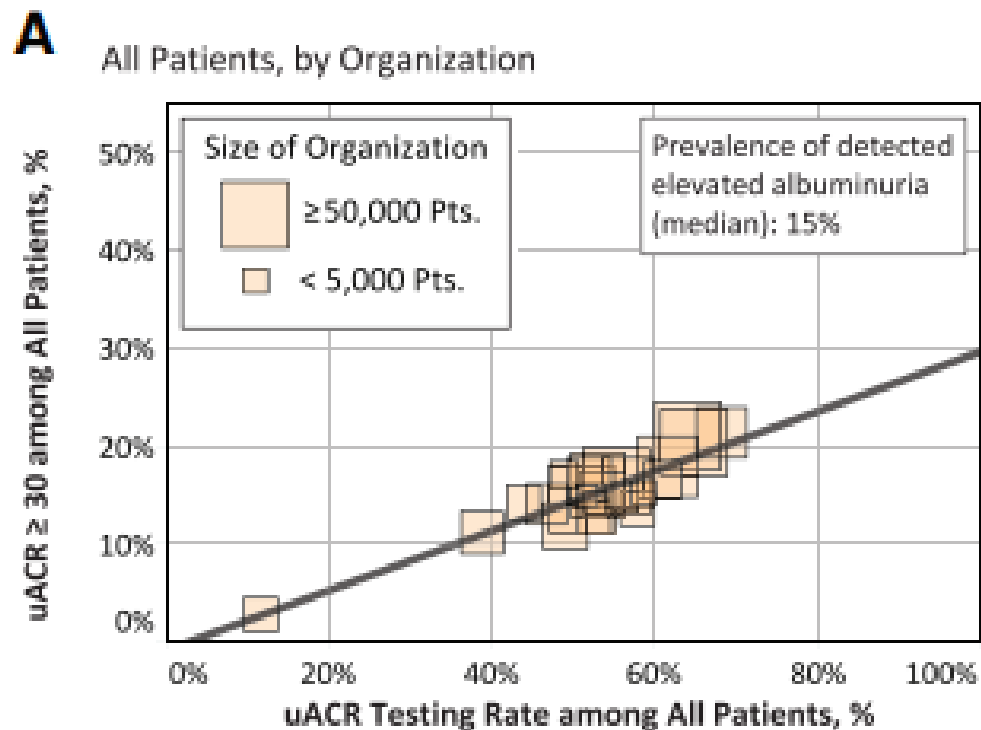
2006 CKD Testing in Type 2 Diabetes

*Diabetes Care* Volume 44, September 2021



Only 50% are tested within 1 year for UACR and eGFR

# You only find what you are looking for (and you don't treat what you don't find)



# Screening for CKD in people living with diabetes

## Who and when to screen?

**T1D** Yearly starting 5 years after diagnosis

**T2D** Yearly starting at diagnosis

## How to screen?



Spot urine albumin–creatinine ratio (ACR)

and



Estimated glomerular filtration rate (eGFR)

## What to do with a positive result?



### Repeat and confirm:

- Evaluate possible temporary or spurious causes
- Consider using cystatin C and creatinine to more precisely estimate GFR
- Only persistent abnormalities define CKD



Initiate evidence-based treatments

## What defines CKD diagnosis?



Persistent urine ACR  $\geq 30$  mg/g



Persistent eGFR  $< 60$  mL/min/1.73 m<sup>2</sup>



Other evidence of kidney damage

# Risk of CKD progression, frequency of visits, and referral to nephrology according to GFR and albuminuria

**CKD is classified based on:**

- Cause (C)
- GFR (G)
- Albuminuria (A)

				Albuminuria categories		
				Description and range		
				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 categories (ml/min/1.73 m <sup>2</sup> )	Description and range	
G1	Normal or high	≥ 90	Screen 1		Treat 1	Treat and refer 3
G2	Mildly decreased	60–89	Screen 1		Treat 1	Treat and refer 3
G3a	Mildly to moderately decreased	45–59	Treat 1		Treat 2	Treat and refer 3
G3b	Moderately to severely decreased	30–44	Treat 2		Treat and refer 3	Treat and refer 3
G4	Severely decreased	15–29	Treat and refer* 3		Treat and refer* 3	Treat and refer 4+
G5	Kidney failure	< 15	Treat and refer 4+	Treat and refer 4+	Treat and refer 4+	

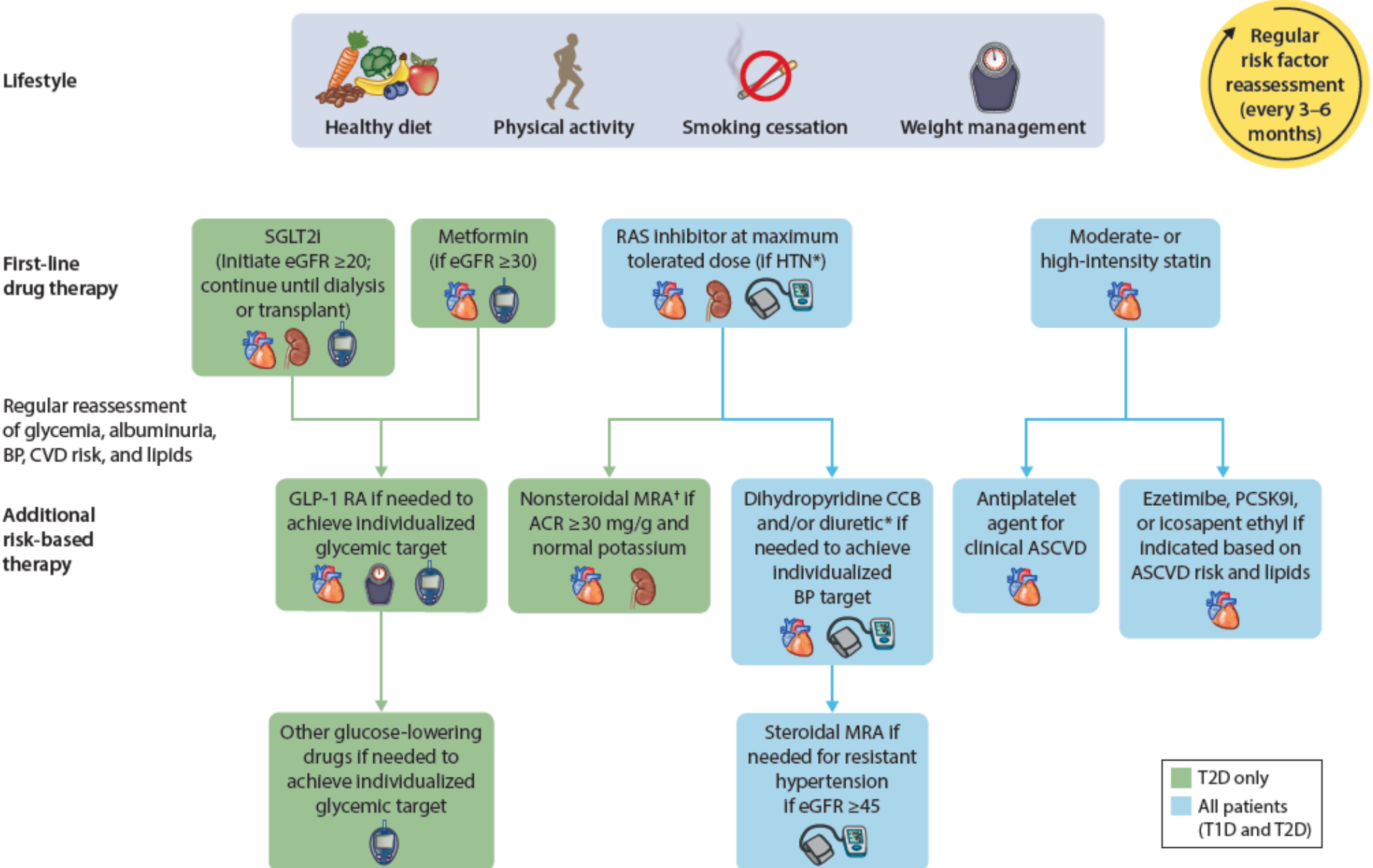
■ Low risk (if no other markers of kidney disease, no CKD)

■ High risk

/ increased risk

■ Very high risk

# Holistic approach for improving outcomes in patients with diabetes and CKD





Lifestyle



Healthy diet



Physical activity



Smoking cessation



Weight management

Regular risk factor reassessment (every 3–6 months)

First-line drug therapy

SGLT2i  
(Initiate eGFR  $\geq 20$ ;  
continue until dialysis  
or transplant)



Metformin  
(if eGFR  $\geq 30$ )



RAS inhibitor at maximum  
tolerated dose (if HTN\*)



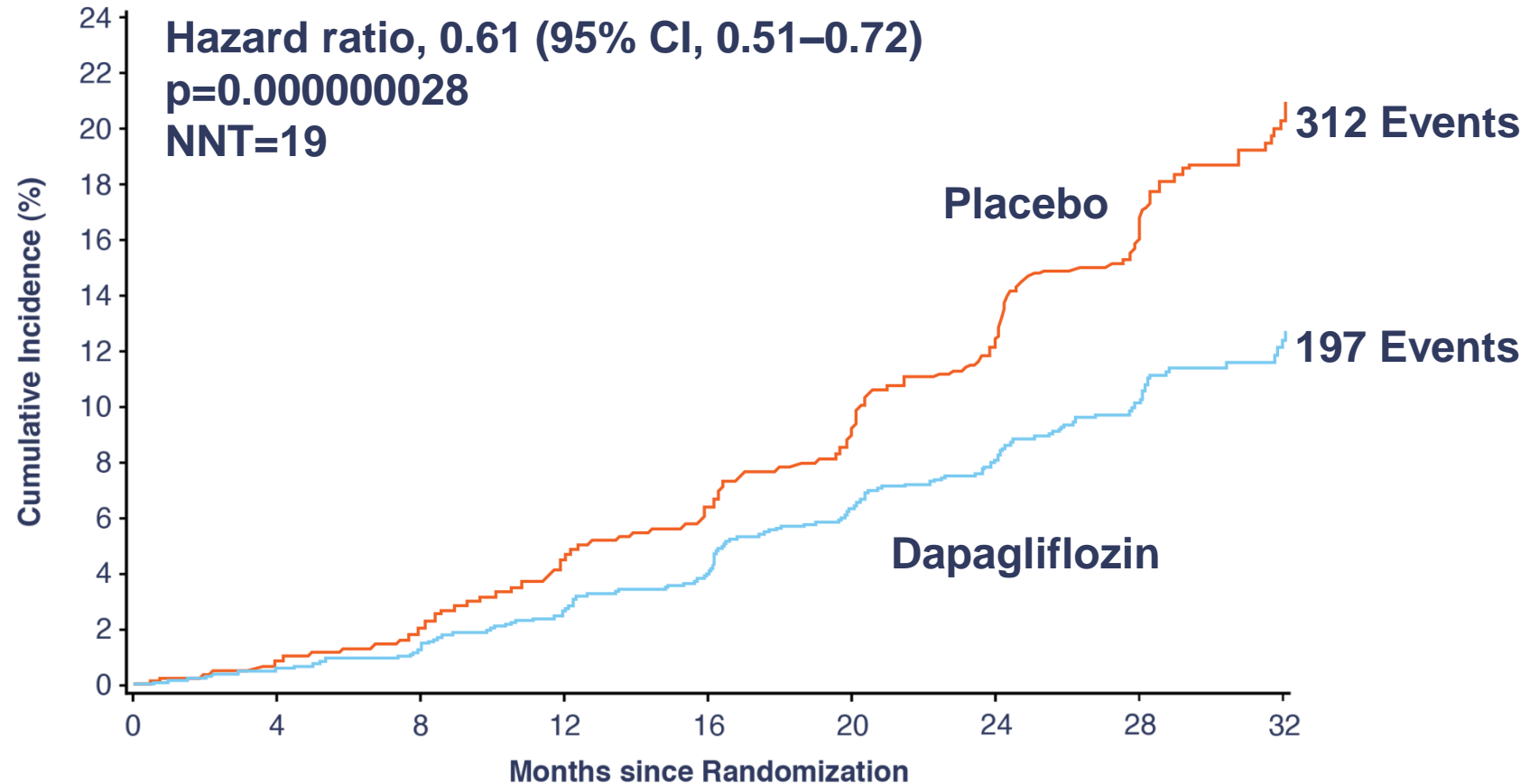
Moderate- or  
high-intensity statin



- **Consensus statement:**
- An SGLT2 inhibitor with proven kidney or cardiovascular benefit is recommended for patients with T2D, CKD, and an eGFR  $\geq 20$  mL/min/1.73 m<sup>2</sup>.
- Once initiated, the SGLT2 inhibitor can be continued at lower levels of eGFR.

# Primary outcome:

## Sustained $\geq 50\%$ eGFR decline, ESKD, renal or cardiovascular death

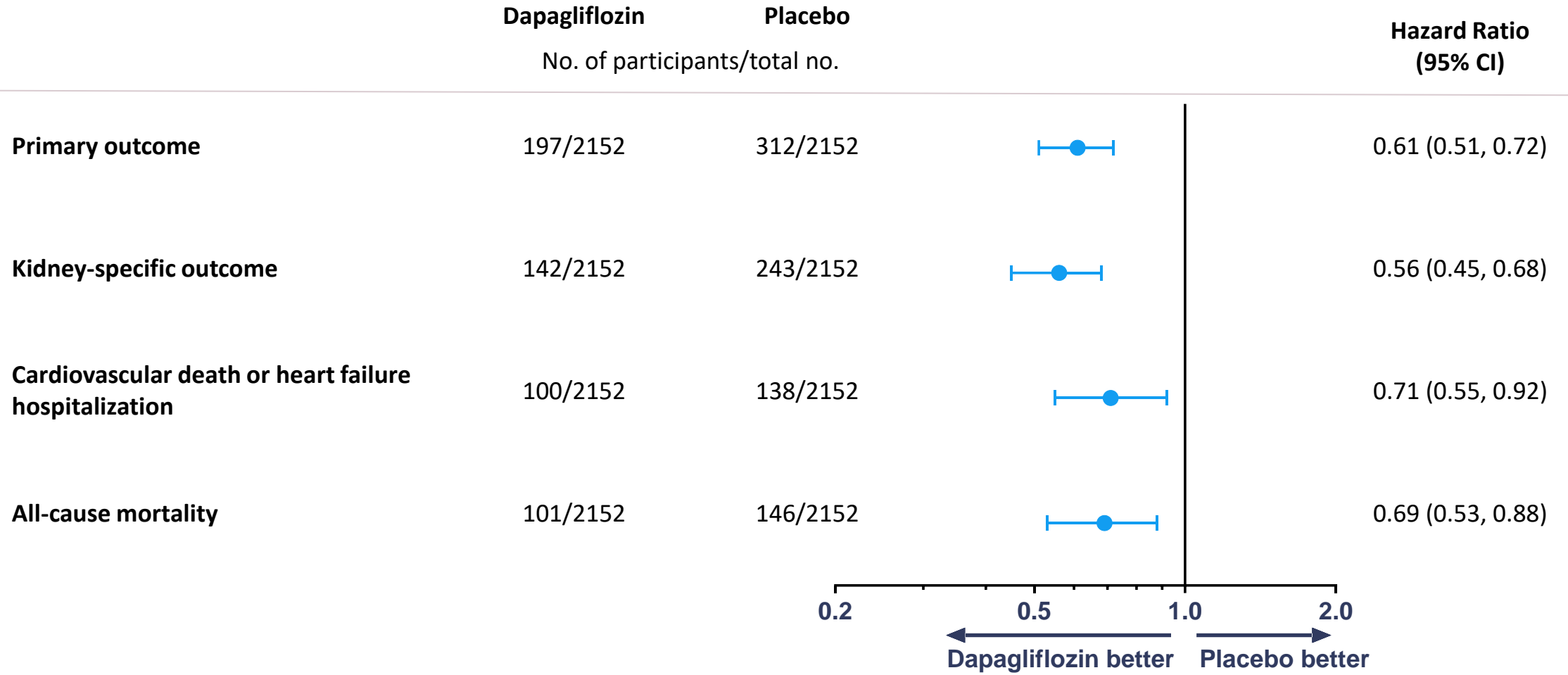


### No. at Risk

Dapagliflozin	2152	2001	1955	1898	1841	1701	1288	831	309
Placebo	2152	1993	1936	1858	1791	1664	1232	774	270



# Primary and secondary outcomes<sup>1</sup>

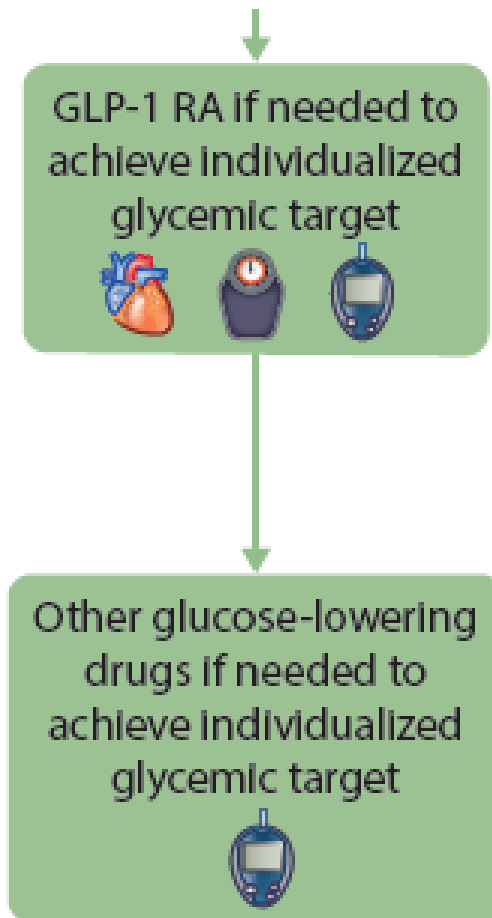


Primary outcome: sustained ≥50% eGFR decline, ESKD, renal or cardiovascular death; Kidney-specific outcome: sustained ≥50% eGFR decline, ESKD, renal death

eGFR, estimated glomerular filtration rate; ESKD, end-stage kidney disease

1: Heerspink HJL. et.al. *N Engl J Med* 2020;383:1436-1446.

# GLP-1 RA when glucose control is not at target



## Consensus statement:

A GLP-1 receptor agonist with proven cardiovascular benefit is recommended for patients with T2D and CKD who do not meet their individualized glycemic target with metformin and/or an SGLT2 inhibitor or because they are unable to use these drugs.

# IMPORTANCE OF GLYCEMIC CONTROL

Averting symptomatic hyperglycemia

Substantial and enduring reduction in microvascular complications

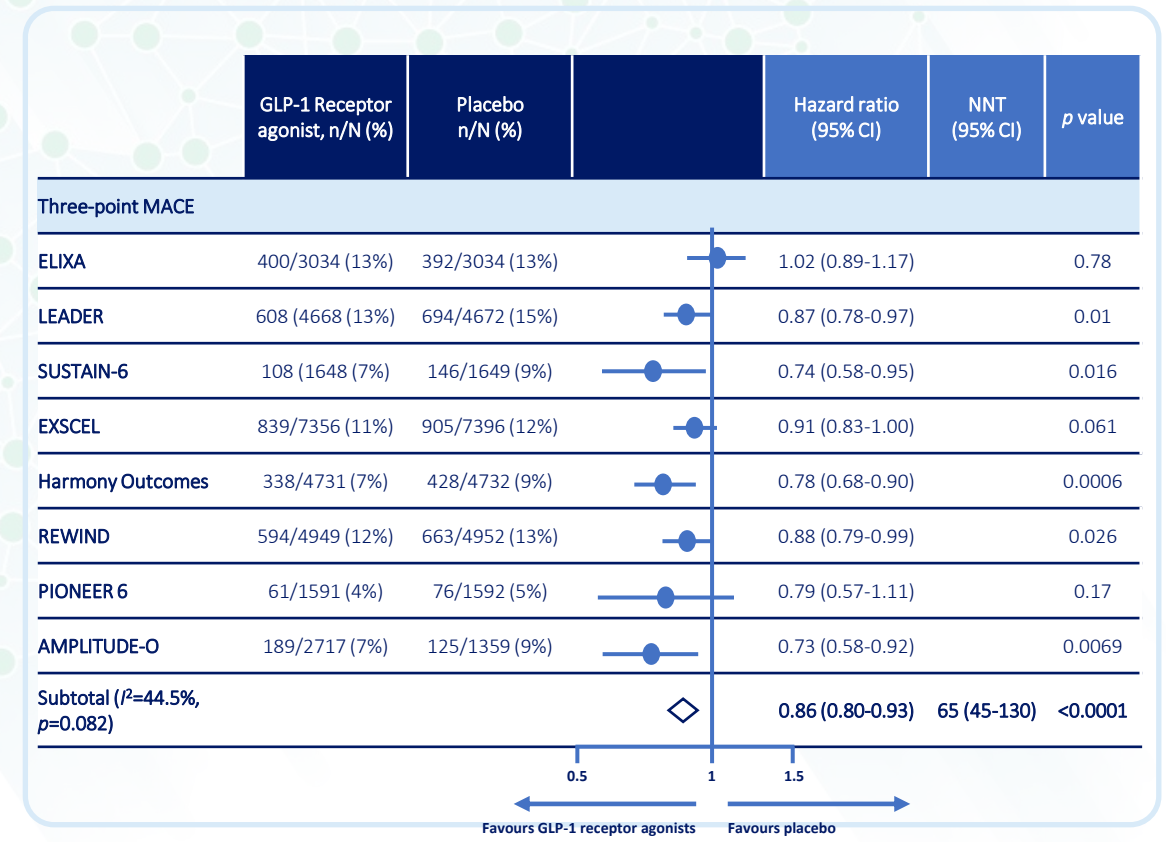
- 50-76% reduction DCCT with A1c 7% vs 9%
- 25% reduction UKPDS with A1C 7% vs 7.9%
- Greatest benefit with reduction from higher levels of A1C

Uncertainty regarding macrovascular benefit of BG control in T2D

Benefits emerge slowly while harms of glucose control medications can be more immediate

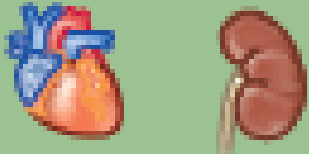
# GLP-1 RECEPTOR AGONISTS CARDIOVASCULAR OUTCOMES TRIALS IN TYPE 2 DIABETES

- Reduce risk of major adverse CVD events.
  - Atherosclerotic events
  - CVD death
  - Decrease macroalbuminuria.
- Reduce eGFR decline from early- to late-stage CKD.
- CVD and CKD benefits and safety have been demonstrated in patients with pre-existing CKD.



# Nonsteroidal MRA after RASi in T2D with residual kidney and CV risk

Nonsteroidal MRA<sup>†</sup> if  
ACR  $\geq$ 30 mg/g and  
normal potassium



## Consensus statement

A nonsteroidal mineralocorticoid receptor antagonist with proven kidney and cardiovascular benefit is recommended for patients with T2D, an eGFR  $\geq$ 25 mL/min/1.73 m<sup>2</sup>, normal serum potassium concentration, and albuminuria (ACR  $\geq$ 30 mg/g) despite maximum tolerated dose of RAS inhibitor.

# The FIDELITY prespecified pooled analysis combined data from FIDELIO-DKD and FIGARO-DKD, including patients across a broad spectrum of eGFR and CKD categories

## Key inclusion criteria

- Aged  $\geq 18$  years with T2D
- On maximum tolerated dose of RAS inhibitor for  $\geq 4$  weeks
- Diabetic retinopathy for patients with A2 albuminuria (FIDELIO-DKD only)
- Moderately/severely increased albuminuria
- Serum  $[K^+] \leq 4.8$  mmol/l



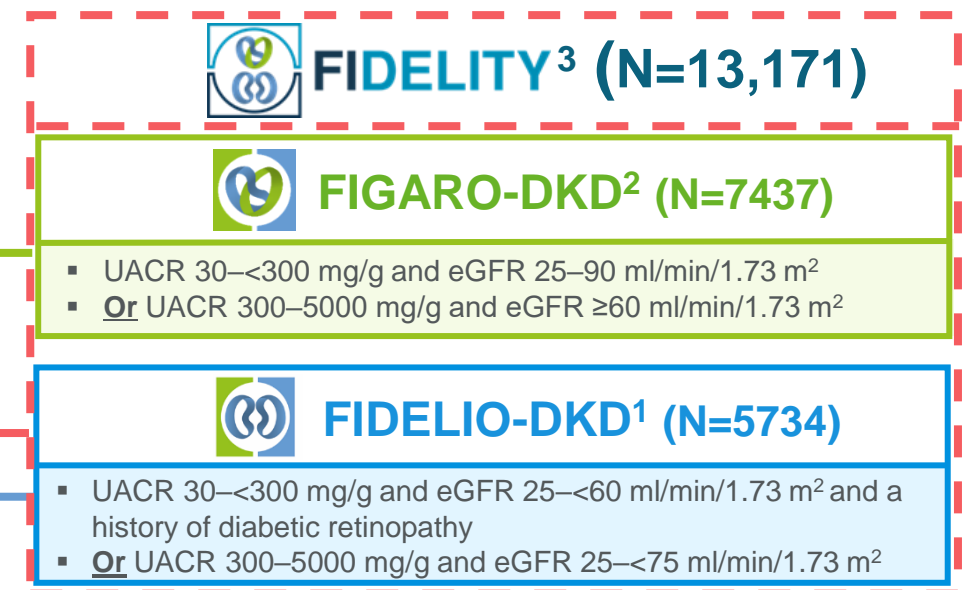
## Key exclusion criteria

- HFrEF with NYHA Class II–IV
- HbA1c  $>12\%$
- Uncontrolled arterial hypertension
- Other kidney disease



## Albuminuria categories (mg albumin/g creatinine)

		A1 Normal to mildly increased	A2 Moderately increased	A3 Severely increased
		0–29	30–299	$\geq 300$ –5000
GFR categories (ml/min/1.73 m <sup>2</sup> )	G1	>90		
	G2	60–89		
	G3a	45–59		
	G3b	30–44		
	G4	15–29		
	G5	<15		



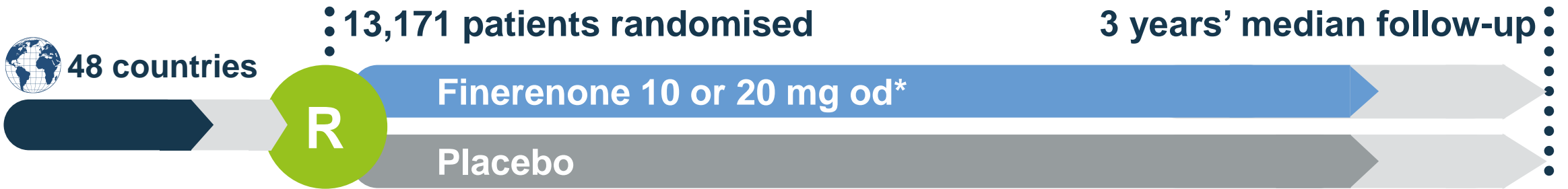
HbA1c, glycated haemoglobin; HFrEF, heart failure with reduced ejection fraction;  $[K^+]$ , potassium concentration; NYHA, New York Heart Association; RAS, renin–angiotensin system

1. Bakris G, et al. *N Engl J Med* 2020;383:2219–2229; 2. Ruilope LM, et al. *Am J Nephrol* 2019;50:345–356; 3. Filippatos G, et al. *ESC* 2021; abstract 7161





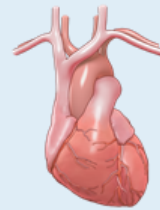
# FIDELITY is a prespecified pooled analysis of FIDELIO-DKD and FIGARO-DKD



## Key outcomes

### CV composite

Time to CV death, non-fatal MI, non-fatal stroke, or HHF



### 57% eGFR kidney composite

Time to kidney failure,<sup>#</sup> sustained  $\geq 57\%$  decrease in eGFR from baseline, or renal death



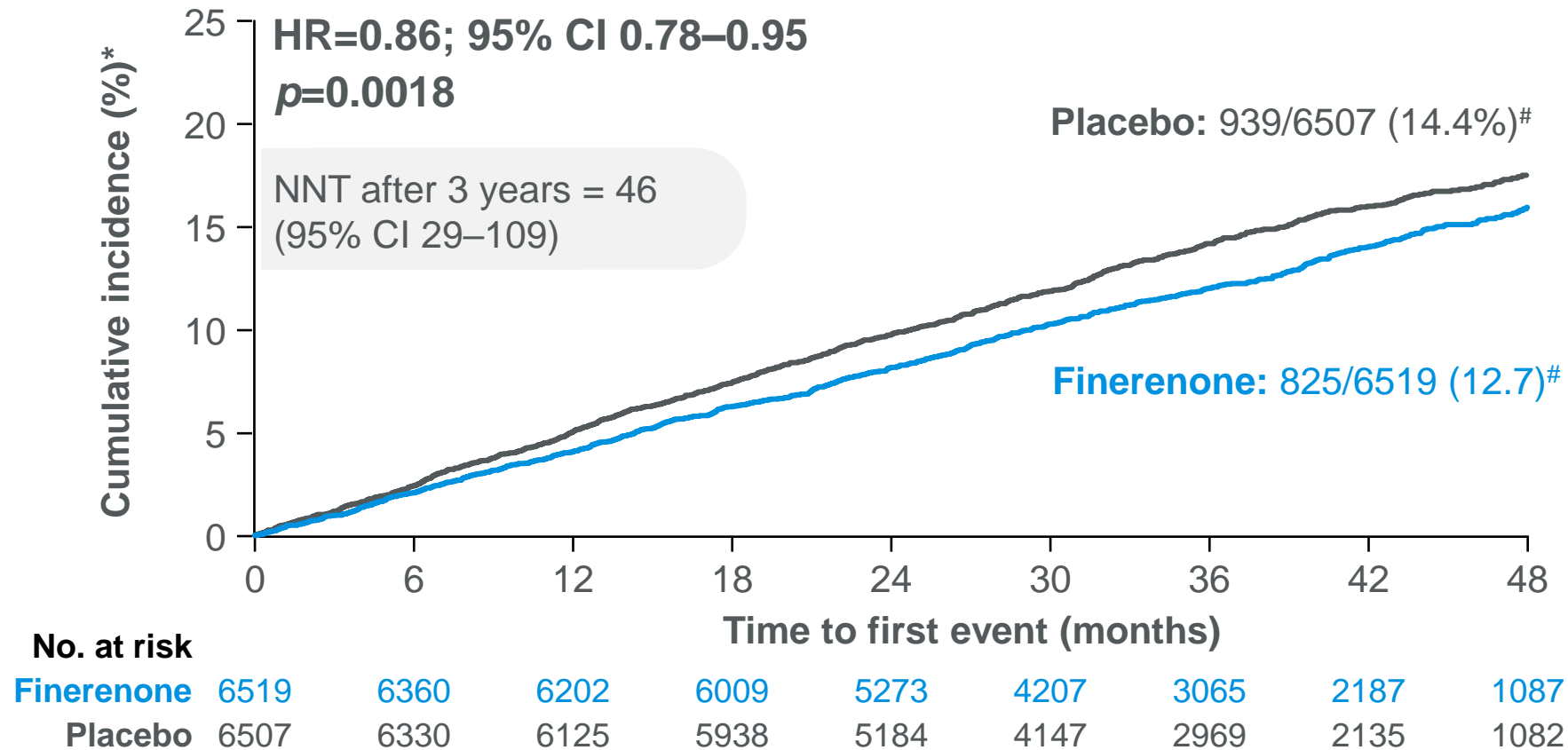
## Other outcomes

- Time to first occurrence of onset of kidney failure, a sustained  $\geq 40\%$  decrease of eGFR from baseline,\* or renal death<sup>#</sup>
- Time to death from any cause
- Time to hospitalisation for any cause
- Change in UACR from baseline to month 4

\*10 mg if screening eGFR 25– $<60$  ml/min/1.73 m<sup>2</sup>; 20 mg if  $\geq 60$  ml/min/1.73 m<sup>2</sup>, up-titration encouraged from month 1 if serum potassium  $\leq 4.8$  mEq/l and eGFR stable; <sup>#</sup>kidney failure defined as either ESKD (initiation of chronic dialysis for  $\geq 90$  days or kidney transplant) or sustained decrease in eGFR  $< 15$  ml/min/1.73 m<sup>2</sup>  
CV, cardiovascular; HHF, hospitalisation for heart failure; MI, myocardial infarction; od, once daily

# On top of optimised RAS blockade, finerenone significantly reduced the risk of the composite CV outcome by 14%

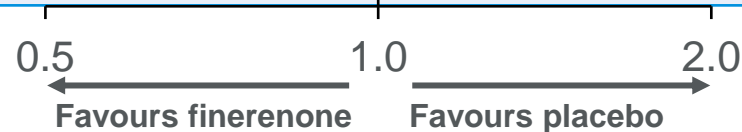
## Time to CV death, non-fatal MI, non-fatal stroke, or hospitalisation for HF



\*Cumulative incidence calculated by Aalen–Johansen estimator using deaths due to other causes as competing risk; #number of patients with an event over a median of 3.0 years of follow-up  
 CI, confidence interval; CV, cardiovascular; HF, heart failure; HR, hazard ratio; MI, myocardial infarction; NNT, number needed to treat; RAS, renin–angiotensin system

# The CV benefits of finerenone were primarily driven by reduction in HHF, and also CV death

Outcome	Finerenone	Placebo	HR (95% CI)	p-value
	(n=6519) n (%)	(n=6507) n (%)		
Composite CV outcome	825 (12.7)	939 (14.4)		0.0018
HHF	256 (3.9)	325 (5.0)		0.0030
CV death	322 (4.9)	364 (5.6)		0.092
Non-fatal MI	173 (2.7)	189 (2.8)		0.36
Non-fatal stroke	198 (3.0)	198 (3.0)		0.95



CI, confidence interval; CV, cardiovascular; HHF, hospitalisation for heart failure; HR, hazard ratio; MI, myocardial infarction  
 Filippatos G. Abstract 7161 presented at the European Society of Cardiology 2021 (ESC 2021)

# The CV benefits of finerenone were consistent regardless of baseline eGFR or UACR, and use of SGLT-2is or GLP-1RAs

Category	Finerenone (n=6519)	Placebo (n=6507)	HR (95% CI)	P <sub>interaction</sub>
	n/N (n/100PY)	n/N (n/100PY)		
Baseline eGFR, ml/min/1.73 m <sup>2</sup>				0.14
<25	11/81 (5.2)	23/81 (12.2)	0.48 (0.22–1.03)	
25–<45	321/2117 (5.7)	331/2115 (5.8)	0.94 (0.81–1.10)	
45–<60	197/1717 (4.0)	247/1717 (5.1)	0.80 (0.66–0.97)	
≥60	295/2603 (3.6)	337/2592 (4.2)	0.87 (0.74–1.01)	
Baseline UACR, mg/g				0.41
<30	10/120 (2.4)	15/110 (4.3)	0.59 (0.24–1.45)	
30–<300	260/1076 (3.8)	292/2023 (4.4)	0.86 (0.73–1.02)	
≥300	554/4321 (4.7)	631/4371 (5.4)	0.89 (0.79–1.00)	
Baseline SGLT-2i				0.41
No	786/6081 (4.4)	887/6068 (5.1)	0.87 (0.79–0.96)	
Yes	39/438 (3.0)	52/439 (4.1)	0.63 (0.40–<1.00*)	
Baseline GLP-1RA				0.63
No	767/6022 (4.4)	875/6060 (5.0)	0.87 (0.79–0.96)	
Yes	58/497 (3.8)	64/447 (4.9)	0.76 (0.52–1.11)	



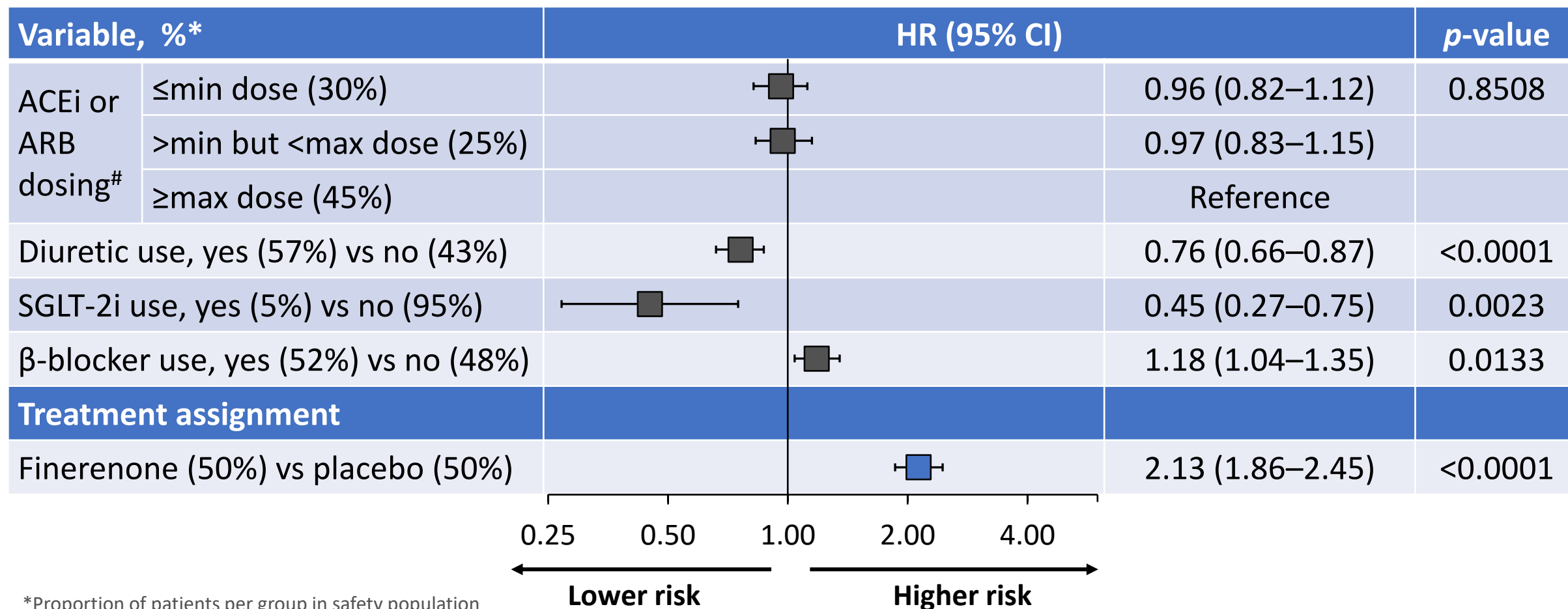
\*Upper CI=0.996

CI, confidence interval; CV, cardiovascular; eGFR, estimated glomerular filtration rate; GLP-1RA, glucagon-like peptide-1 receptor agonist; HR, hazard ratio; PY, patient-years;

SGLT-2i, sodium-glucose co-transporter-2 inhibitor; ; UACR, urine albumin-to-creatinine ratio

Filippatos G. Abstract 7161 presented at the European Society of Cardiology 2021 (ESC 2021)

# SGLT2i and diuretic use at baseline, but not RASi dosing was associated with lower risk of hyperkalemia



\*Proportion of patients per group in safety population

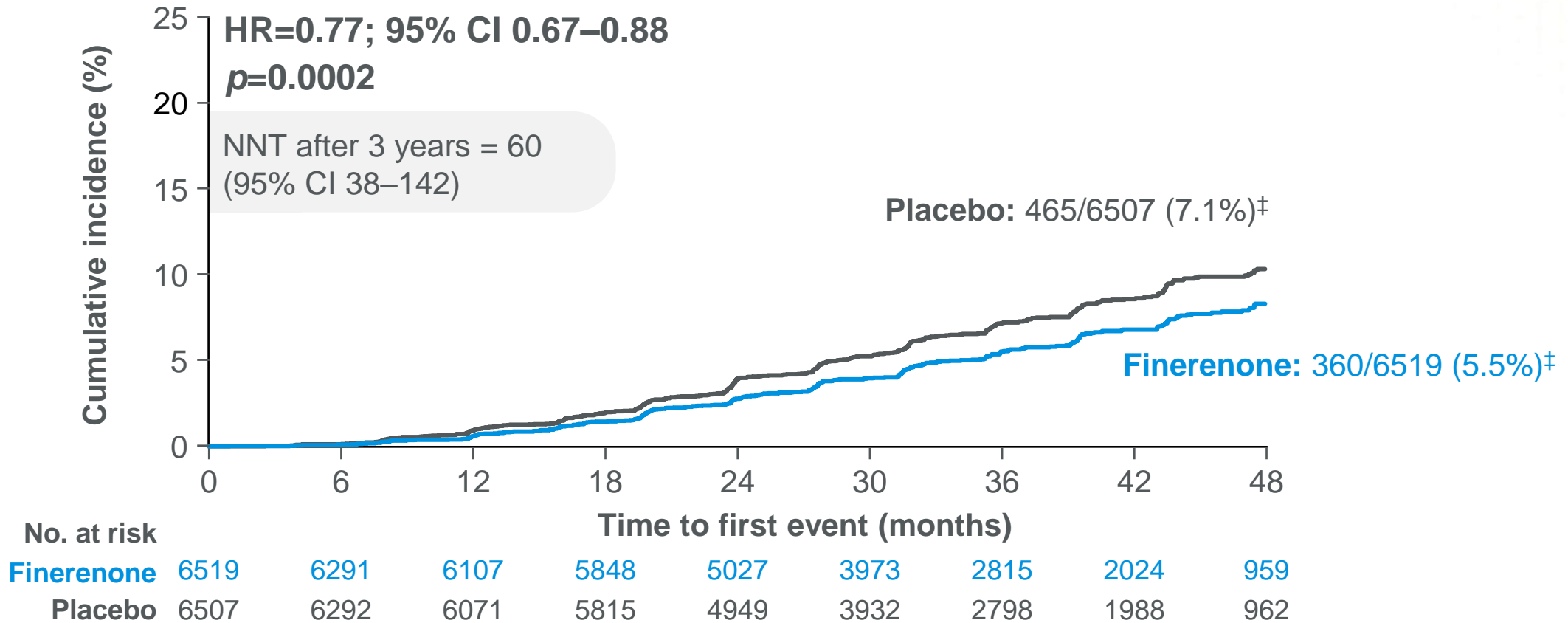
<sup>#</sup>According to dose recommended by the product label; dosing information was missing for 0.3% of patients

ACEi, angiotensin-converting enzyme inhibitor; ARB, angiotensin receptor blocker; CI, confidence interval; HR, hazard ratio;

RASi, renin-angiotensin system inhibitor; SGLT-2i, sodium-glucose co-transporter-2 inhibitor

# Finerenone significantly reduced the risk of the $\geq 57\%$ eGFR kidney composite outcome by 23%

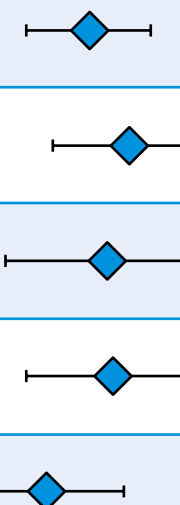

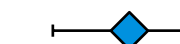




Time to kidney failure,\* sustained  $\geq 57\%$  decrease in eGFR from baseline, or renal death#



\*ESKD or an eGFR  $<15$  ml/min/1.73 m<sup>2</sup>; #events were classified as renal death if: (1) the patient died; (2) kidney replacement therapy had not been initiated despite being clinically indicated; and (3) there was no other likely cause of death; <sup>‡</sup>cumulative incidence calculated by Aalen–Johansen estimator using deaths due to other causes as competing risk; <sup>¶</sup>number of patients with an event over a median of 3.0 years of follow-up

CI, confidence interval; eGFR, estimated glomerular filtration rate; ESKD, end-stage kidney disease; HR, hazard ratio; NNT, number needed to treat  
 Filippatos G. Abstract 7161 presented at the European Society of Cardiology 2021 (ESC 2021)

# Finerenone significantly reduced the incidences of all components of the kidney composite outcome including ESKD (except renal death\*)

Outcome	Finerenone (n=6519)	Placebo (n=6507)		HR (95% CI)	p-value
	n (%)	n (%)			
eGFR 57% composite kidney outcome	360 (5.5)	465 (7.1)		0.77 (0.67–0.88)	0.0002
Kidney failure	254 (3.9)	297 (4.6)		0.84 (0.71–0.99)	0.039
ESKD <sup>#</sup>	151 (2.3)	188 (2.9)		0.80 (0.64–0.99)	0.040 <sup>‡</sup>
eGFR <15 ml/min/1.73 m <sup>2</sup> <sup>¶</sup>	195 (3.0)	237 (3.6)		0.81 (0.67–0.98)	0.026 <sup>‡</sup>
≥57% decrease in eGFR from baseline <sup>¶</sup>	257 (3.9)	361 (5.5)		0.70 (0.60–0.83)	<0.0001
Renal death	2 (<0.1)	4 (<0.1)		0.53 (0.10–2.91)	–

≥57% decrease in eGFR is equivalent to doubling of serum creatinine

0.5 1.0 2.0

Favours finerenone Favours placebo

\*Only 6 patients experienced renal death; <sup>#</sup>initiation of chronic dialysis for ≥90 days or kidney transplant; <sup>‡</sup>analysis for p-values not prespecified; <sup>¶</sup>confirmed by two eGFR measurements ≥4 weeks apart  
 CI, confidence interval; eGFR, estimated glomerular filtration rate; ESKD, end-stage kidney disease; HR, hazard ratio  
 Filippatos G. Abstract 7161 presented at the European Society of Cardiology 2021 (ESC 2021)

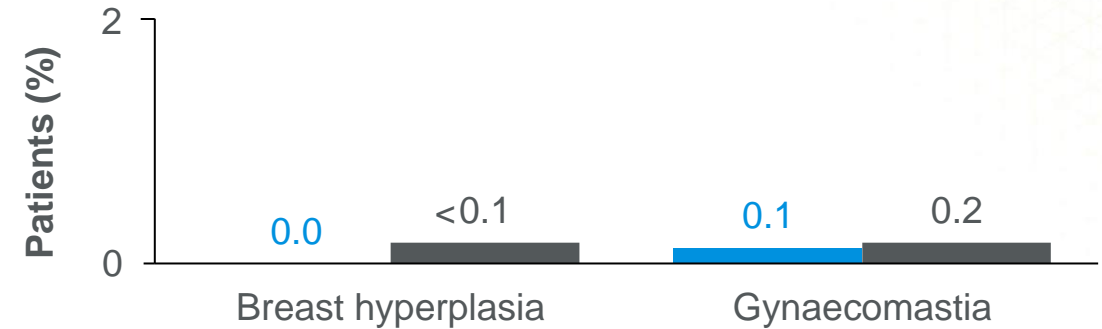
# Finerenone showed modest effects on SBP and no sexual side effects. Hyperkalaemia was increased but clinical impact was low

## Modest effect on systolic blood pressure

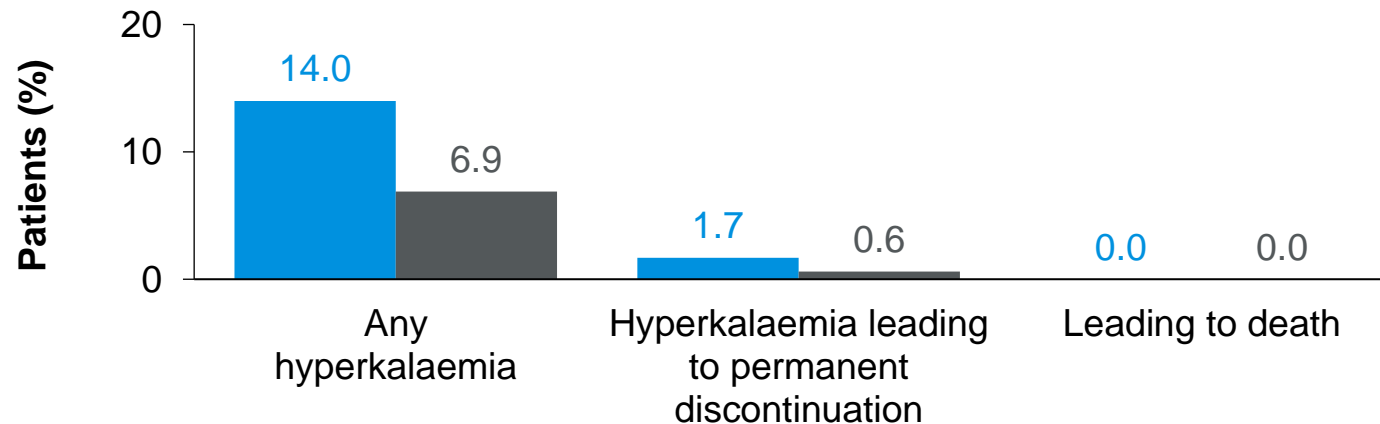


Placebo-corrected change in mean SBP of **-3.7 mmHg** at 4 months

## No sexual side-effects



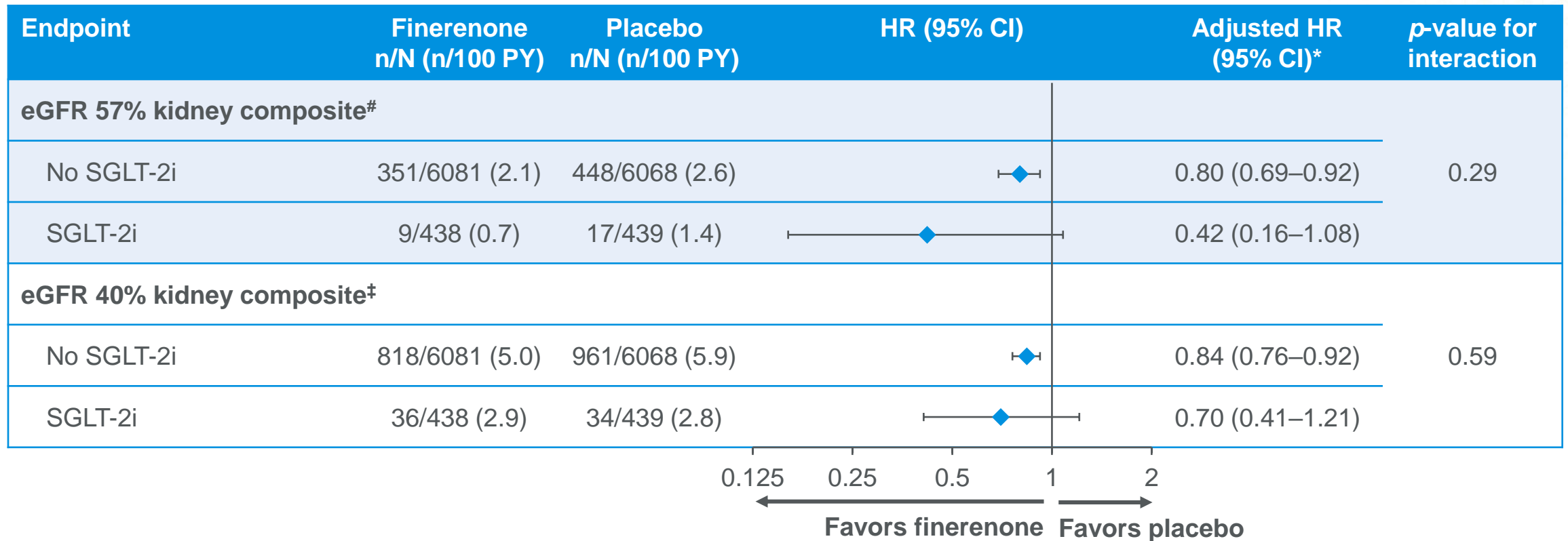
## Increased hyperkalaemia with minimal impact



**Finerenone (n=6510)**  
**Placebo (n=6489)**

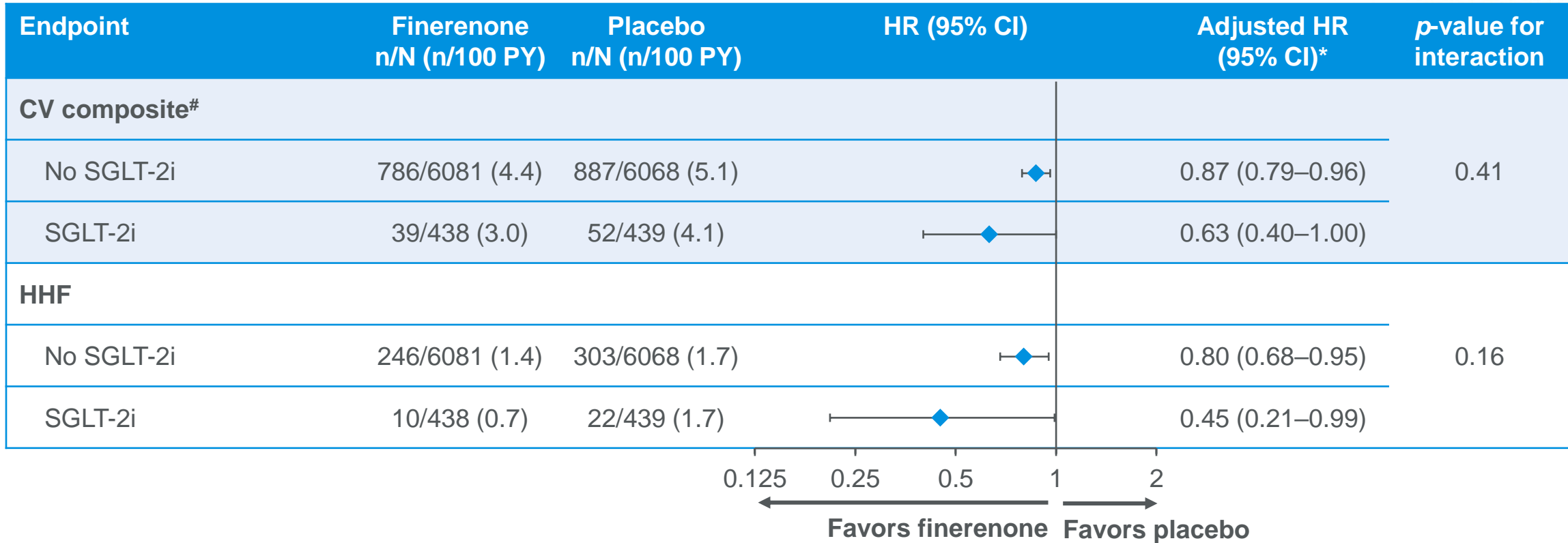


# Finerenone reduced the risk of the kidney composite endpoint outcomes irrespective of SGLT-2i use



\*Adjusted HR for HbA1c, SBP, UACR at baseline (log-transformed), eGFR at baseline; <sup>#</sup>eGFR 57% kidney composite outcome defined as kidney failure (ESKD or eGFR <15 ml/min/1.73 m<sup>2</sup>), a sustained ≥57% decrease in eGFR from baseline (equivalent to a doubling of serum creatinine) for ≥4 weeks, or renal death; <sup>‡</sup> eGFR 40% kidney composite outcome defined as kidney failure (ESKD or eGFR <15 ml/min/1.73 m<sup>2</sup>), a sustained ≥40% decrease in eGFR from baseline maintained for ≥4 weeks, or renal death  
 CI, confidence interval; eGFR, estimated glomerular filtration rate; ESKD, end-stage kidney disease; HbA1c, glycated hemoglobin; HR, hazard ratio; PY, patient-years; SBP, systolic blood pressure; SGLT-2i, sodium-glucose co-transporter-2 inhibitor; UACR, urine albumin-to-creatinine ratio

# The CV benefit of finerenone was consistent irrespective of SGLT-2i use



\*Adjusted HR for HbA1c, SBP, UACR at baseline (log-transformed), eGFR at baseline; <sup>#</sup>CV composite defined as composite of CV death, non-fatal MI, non-fatal stroke, or HHF  
 CI, confidence interval; CV, cardiovascular; eGFR, estimated glomerular filtration rate; HbA1c, glycated hemoglobin; HHF, hospitalization for heart failure; HR, hazard ratio;  
 MI, myocardial infarction; PY, patient-years; SBP, systolic blood pressure; SGLT-2i, sodium-glucose co-transporter-2 inhibitor; UACR, urine albumin-to-creatinine ratio

# Finerenone reduced the risk of the CV and kidney composite outcomes compared with placebo, irrespective of GLP-1RA use

## Composite efficacy outcomes by GLP-1RA use at baseline

Endpoint	n/N (%)		n events per 100 PY		Hazard ratio (95% CI)	$P_{\text{interaction}}$
	Finerenone	Placebo	Finerenone	Placebo		
<b>Composite CV outcome*</b>						
Overall	825/6519 (12.6)	939/6507 (14.4)	4.34	5.01	0.86 (0.78–0.95)	0.63
GLP-1RA use at baseline	58/497 (11.7)	64/447 (14.3)	3.79	4.90	0.76 (0.52–1.11)	
No GLP-1RA use at baseline	767/6022 (12.7)	875/6060 (14.4)	4.38	5.02	0.87 (0.79–0.96)	
<b>Kidney composite outcome#</b>						
Overall	360/6519 (5.5)	465/6507 (7.1)	1.96	2.55	0.77 (0.67–0.88)	0.79
GLP-1RA use at baseline	22/497 (4.4)	27/447 (6.0)	1.47	2.10	0.82 (0.45–1.48)	
No GLP-1RA use at baseline	338/6022 (5.6)	438/6060 (7.2)	2.01	2.59	0.77 (0.67–0.89)	

Time-varying analyses showed that finerenone reduced the risk of the composite CV outcome and kidney composite outcome vs. placebo regardless of GLP-1RA use at any time during the study and not just at baseline ( $P_{\text{interaction}}=0.40$  and  $P_{\text{interaction}}=0.33$ , respectively)

\*Included time to CV death, non-fatal MI, non-fatal stroke or HHF; #Included time to kidney failure, sustained  $\geq 57\%$  eGFR decline from baseline or renal death  
PY, patient-years

# Chronic Kidney Disease—Treatment (continued)

- 11.3c** In patients with chronic kidney disease who are at increased risk for cardiovascular events or chronic kidney disease progression or are unable to use a sodium–glucose cotransporter 2 inhibitor, a nonsteroidal mineralocorticoid receptor antagonist (finerenone) is recommended to reduce chronic kidney disease progression and cardiovascular events (Table 9.2).**A**

**APPROVED BY FDA AND EMA  
RECOMMENDED IN GUIDELINES!!**

# Summary for finerenone



Overall, AEs were balanced between finerenone and placebo<sup>1,2</sup>



Modest reduction in SBP with finerenone<sup>1,2</sup>



Finerenone has no effects on HbA1c<sup>1,2</sup>



Sexual side effects were balanced between groups<sup>1-3</sup>

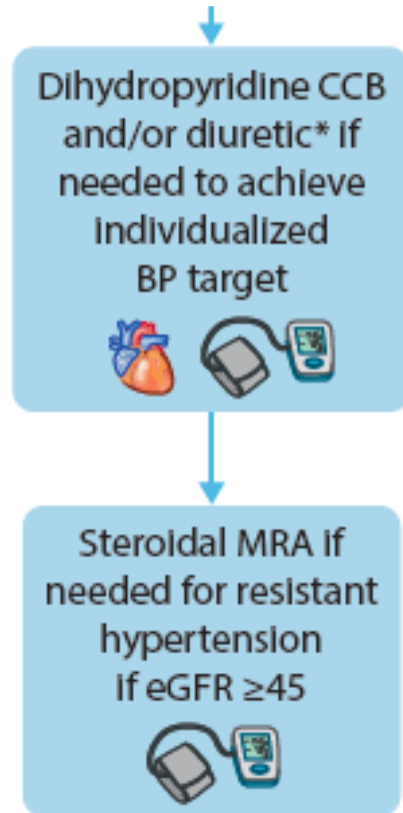


Routine serum [K<sup>+</sup>] monitoring minimised the clinical impact of hyperkalaemia with low rates of finerenone discontinuation due to hyperkalaemia<sup>1-4</sup>

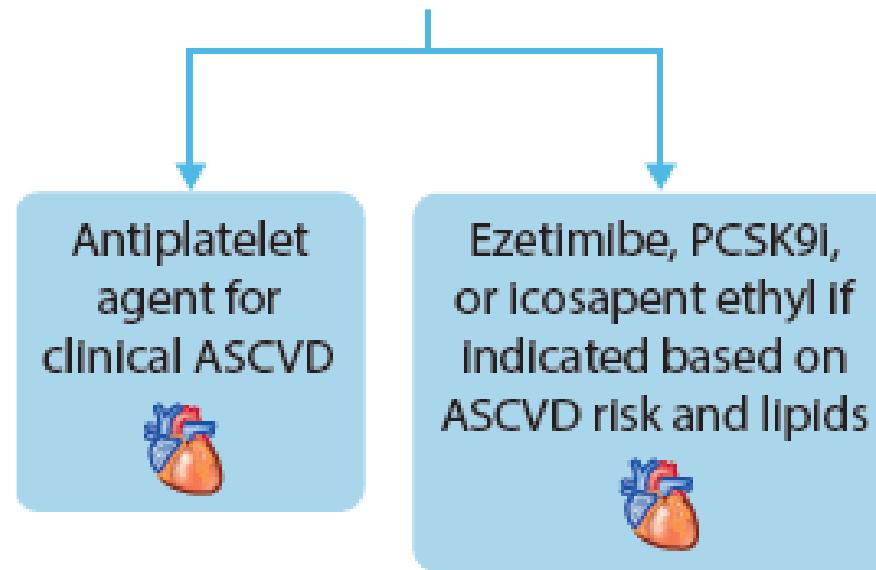
**Finerenone shows long-term kidney and CV benefits in patients with CKD and T2D<sup>1-3</sup>  
Elevations in serum [K<sup>+</sup>] are predictable and manageable through routine monitoring<sup>5</sup>**

1. Bakris GL, et al. *N Engl J Med* 2020;383:2219–2229; 2. Pitt B, et al. *N Engl J Med* 2021; doi: 10.1056/NEJMoa2110956; 3. Filippatos G and Agarwal R, presented at the ESC Congress presented at ESC Congress 2021 Hot Line session 28 August 2021 available at: <https://esc365.escardio.org/presentation/238815>; 4. Agarwal R. WCN 2021; abstract WCN21-0607

# Control of BP after RASi



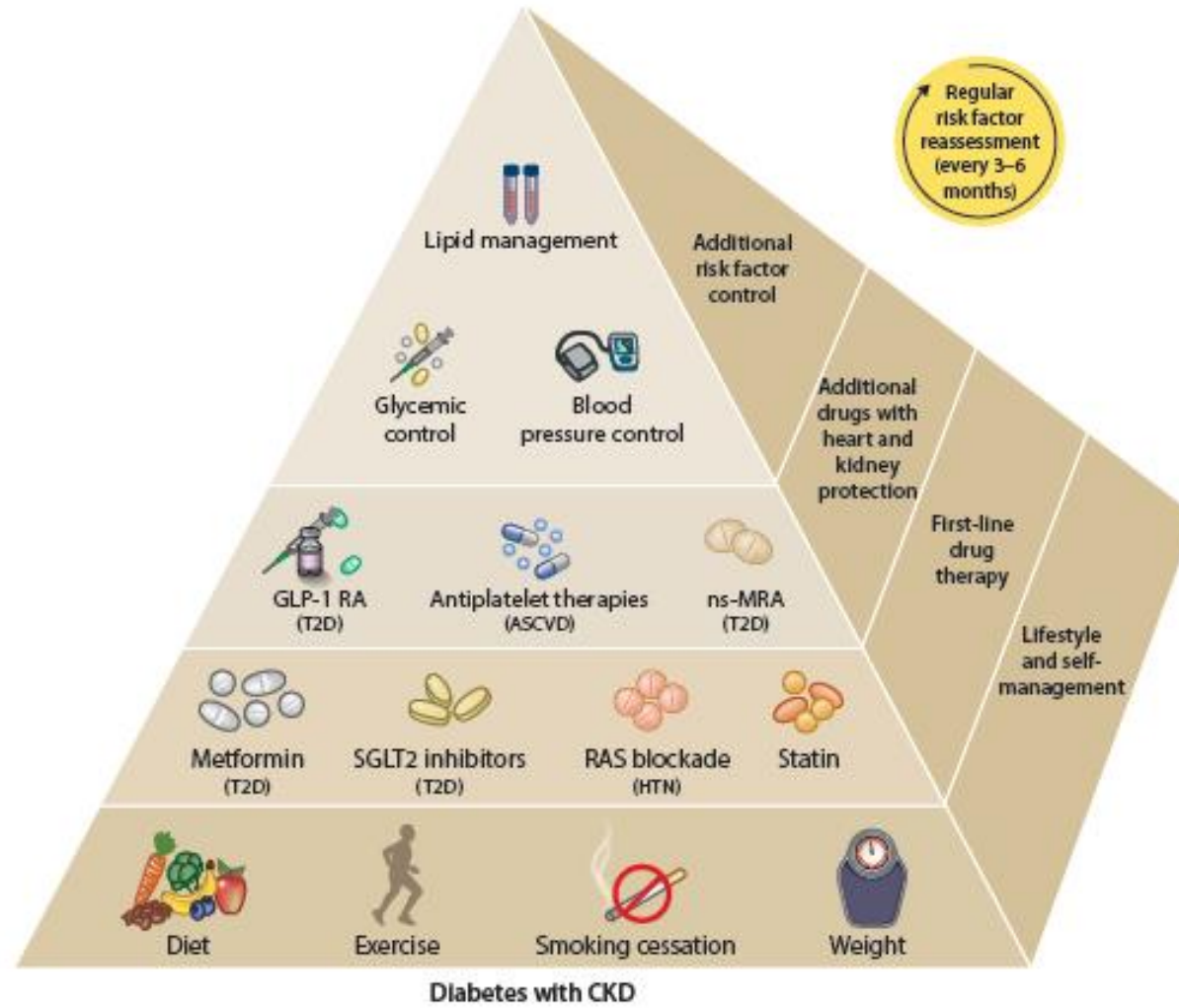
# Optimize lipid and ASCVD prevention



# . *Overcoming barriers to management of CKD in patients with diabetes*



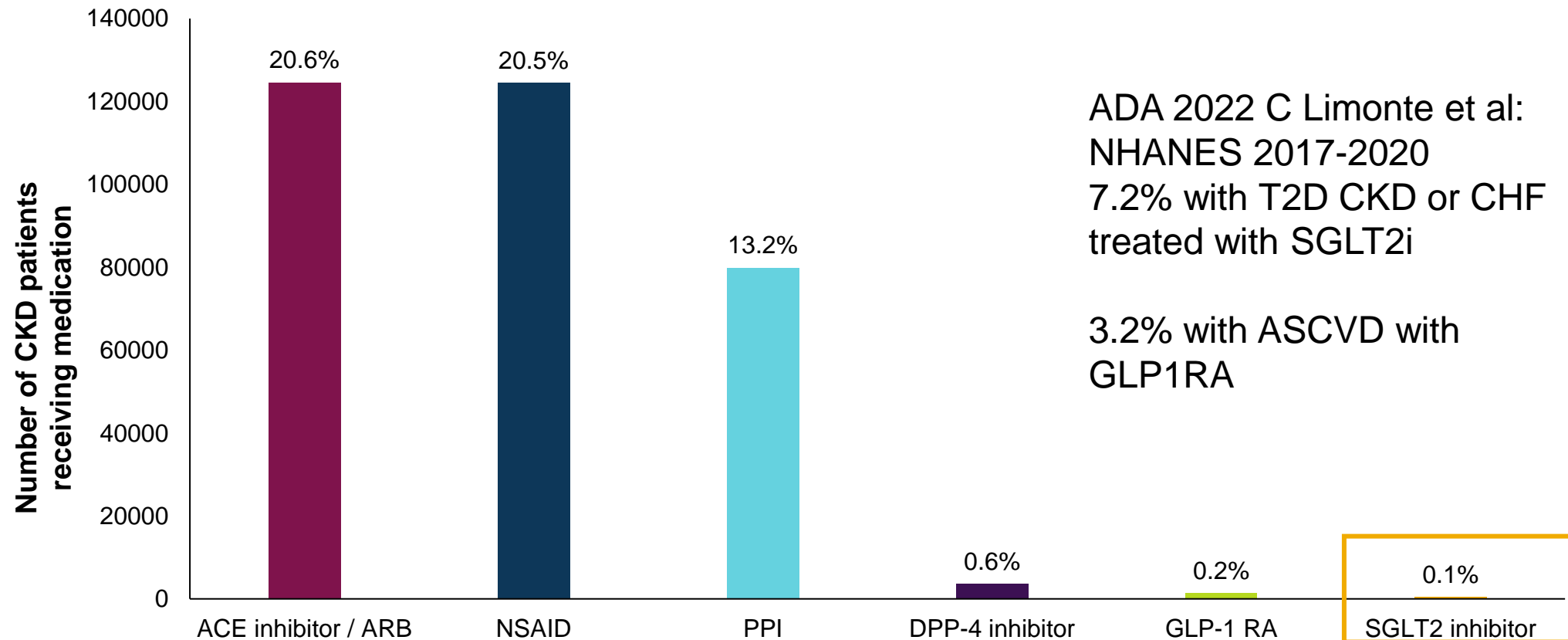




# The uptake of SGLT2 inhibitors in CKD is lower compared with other glycemic and nonglycemic agents

- The CURE-CKD registry investigated prescription patterns of 606,064 adult US CKD patients

## Prevalence of prescription medication use in CKD patients<sup>1,a</sup>



<sup>a</sup>CKD was defined as: eGFR <60 mL/min/1.73 m<sup>2</sup>, UACR >30 mg/g, UPCR >150 mg/g, or an ICD-9 or ICD-10 diagnosis code

ACE, angiotensin-converting enzyme; ARB, angiotensin receptor blocker; CKD, chronic kidney disease; DPP-4, dipeptidyl peptidase-4; eGFR, estimated glomerular filtration rate; GLP-1 RA, glucagon-like peptide-1 receptor agonist; ICD, International Classification of Diseases; NSAID, nonsteroidal anti-inflammatory drug; PPI, proton pump inhibitor; SGLT2, sodium-glucose co-transporter 2; UACR, urine albumin:creatinine ratio; UPCR, urine protein:creatinine ratio

1. Tuttle KR, et al. *JAMA Netw Open* 2019;2:e1918169;

# Key take away points

- Remember to screen for CKD with eGFR and UACR
- Healthy lifestyle and education foundation
- First line therapy includes SGLT2i, RASi, metformin and statins
- CKD and CVD protection with SGLT2i and nsMRA, and CVD protection with GLP1-RA
- Organisation of care is key to overcoming barriers to implementation and treatment inertia



# Thank you

