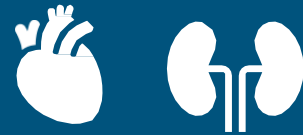


Finerenone in Clinical Practice



KO KO
UM(1)

Outline

- 1. Why MR overactivation is important in pathogenesis of DKD**
- 2. What is Finerenone**
- 3. Differences between Steroidal and Non steroidal MRA**
- 4. Indications of Finerenone**
- 5. Finerenone in guidelines**
- 6. Finerenone in clinical trials**
- 7. How to give finerenone,,Doses,Titration and monitorings**
- 8. Side effects of Finerenone**
- 9. 4 pillars of DKD**
- 10.Is combinations is better**
- 11.Can SGLT2 I combine with finerenone**
- 12.Sequences of combinations Therapy**

Combination Medical Therapy: A New Standard of Cardio-Renal-Metabolic Care

HFrEF

*“Quadruple
Therapy”*

- β -blocker
- ACEi/ARB/ARNI
- *Non-Steroidal* MRA
- SGLT-2 Inhibitor



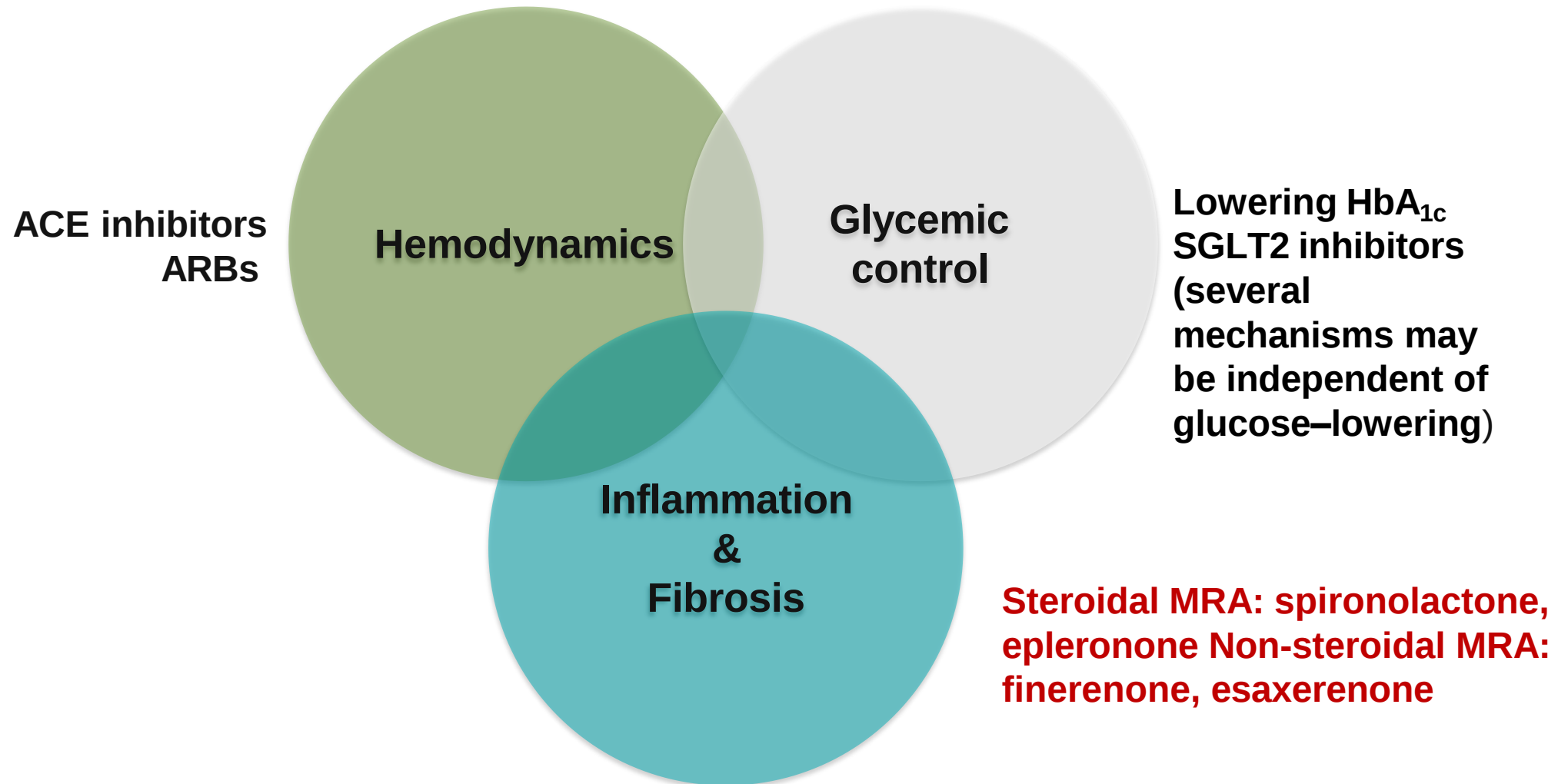
CKD

*“Quadruple”
Therapy*

- ACEi/ARB
- *Non-Steroidal* MRA
- SGLT-2 Inhibitor
- GLP-1RA

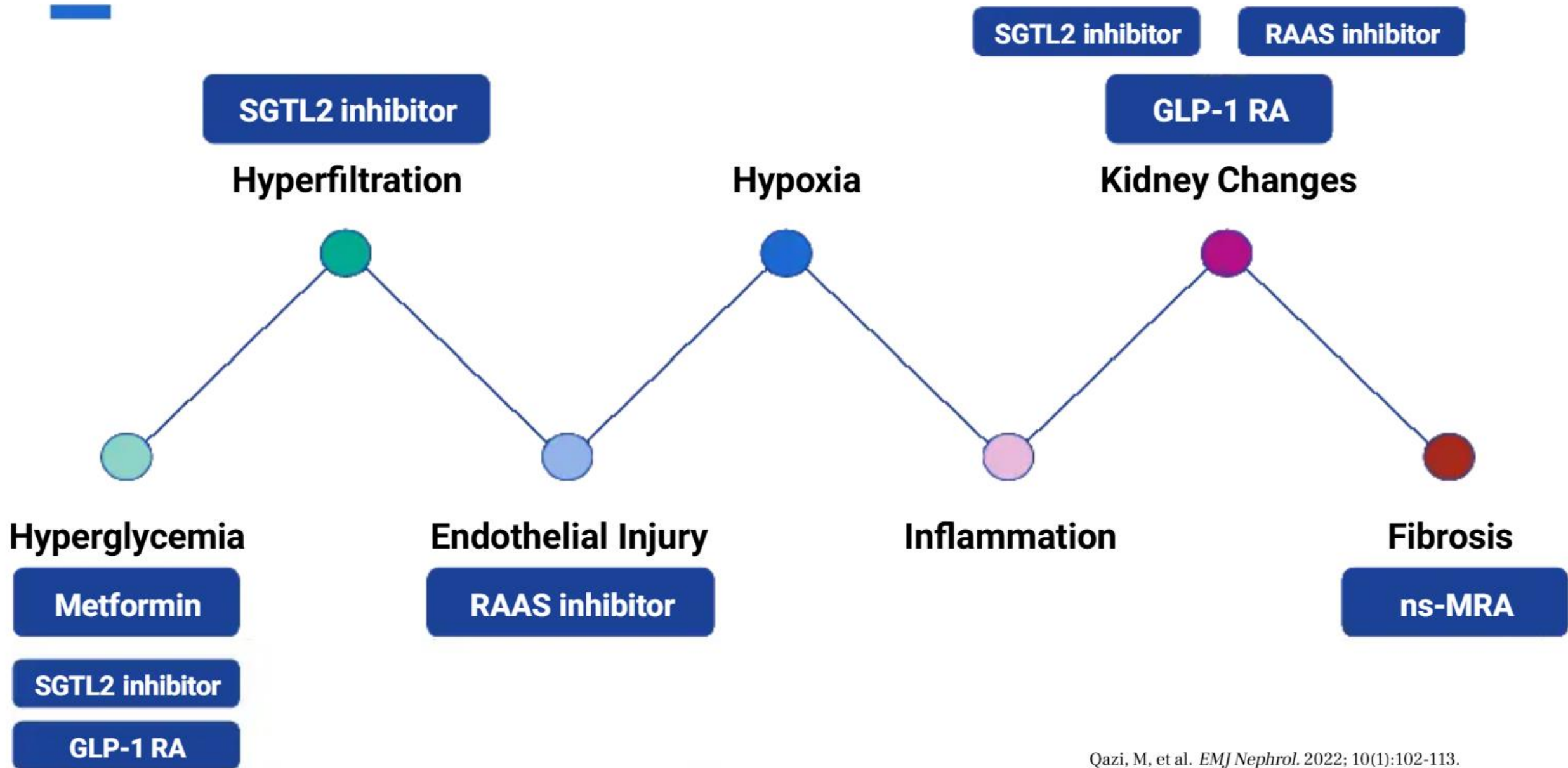


Strategies to Slow Progression of CKD



- Kolkhof P, et al. *Mol Cell Endocrinol*. 2012;350:310–317; Kolkhof P, et al. *J Endocrinol*. 2017;234:T125-T140.

DKD Overview – Treatment Targeting the Pathophysiology



Qazi, M, et al. *EMJ Nephrol.* 2022; 10(1):102-113.
Lin YC, et al. *J Formos Med Assoc.* 2018; 117(8):662-675.

MR Overactivation as a Central Driver of Inflammation and Fibrosis in the Heart and Kidneys



Hans Selye, 1907-1982,
Born Vienna, Austria-Hungary
Source: Wikipedia

MALIGNANT HYPERTENSION PRODUCED BY TREATMENT WITH DESOXYCORTICOSTERONE ACETATE AND SODIUM CHLORIDE*

By Hans Selye, M.D., Ph.D., D.Sc., F.R.S.C.,
C. E. Hall,† M.Sc. and E. M. Rowley, B.Sc.

Montreal

- Selye H, et al. *Can Med Assoc J.* 1943;49:88-92.

How MR Overactivation leads to Kidney Damage

Mineralocorticoid Receptor (MR) Overactivation: Key Driver of Kidney Damage

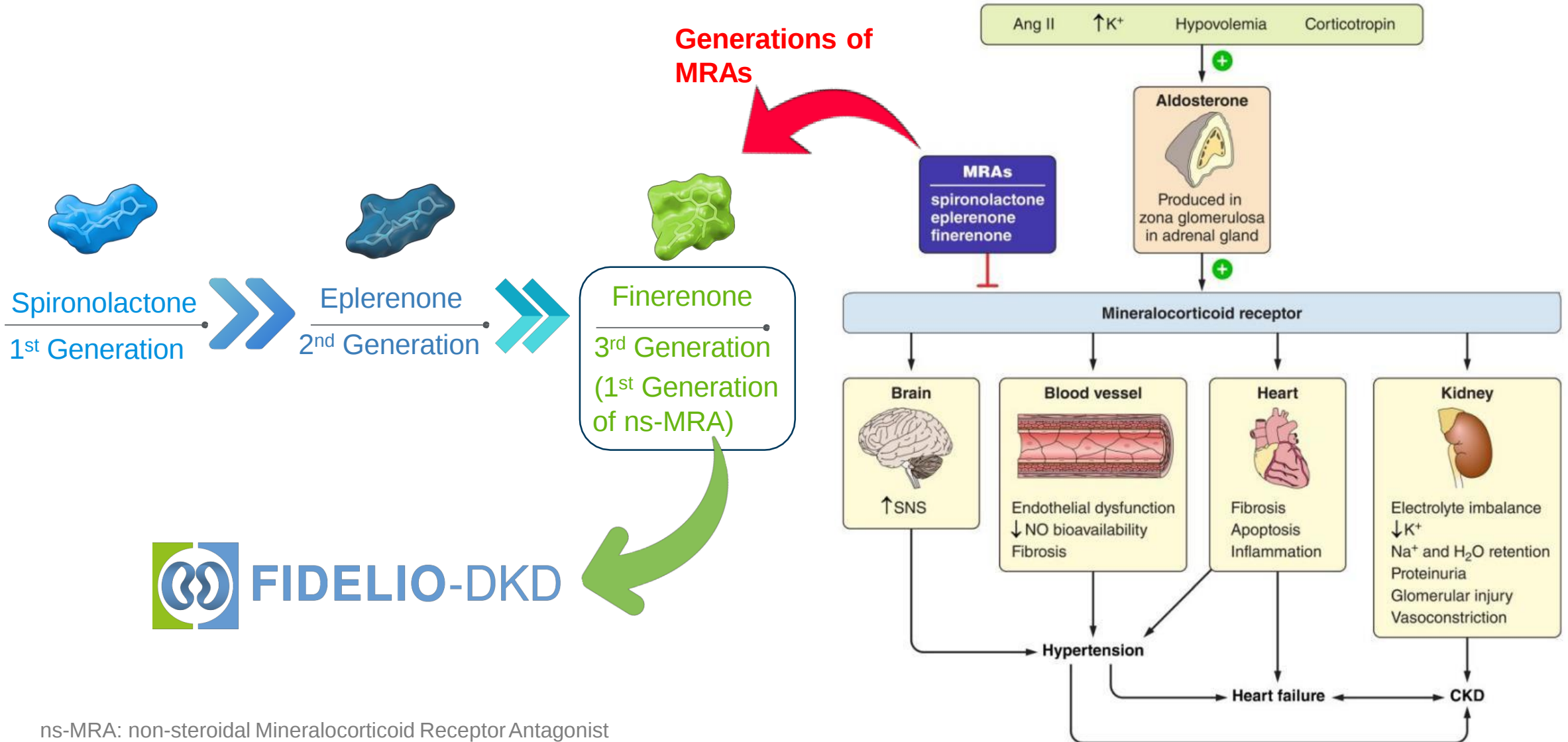
Mineralocorticoid receptors
regulate gene expression through cofactor recruitment¹

In kidney disease, multiple factors overactivate the MR
including aldosterone, Rac1, cortisol, and others^{2,3}

Overactivation of the MR signalling pathway drives inflammation and fibrosis
via proinflammatory cytokines and fibrotic proteins,
eg, TNF- α , IL-1b, and IL-6^{1,2}

MR overactivation results in deleterious effects on the heart and kidney, promoting cardiac remodeling and progression of both kidney and cardiovascular disease²

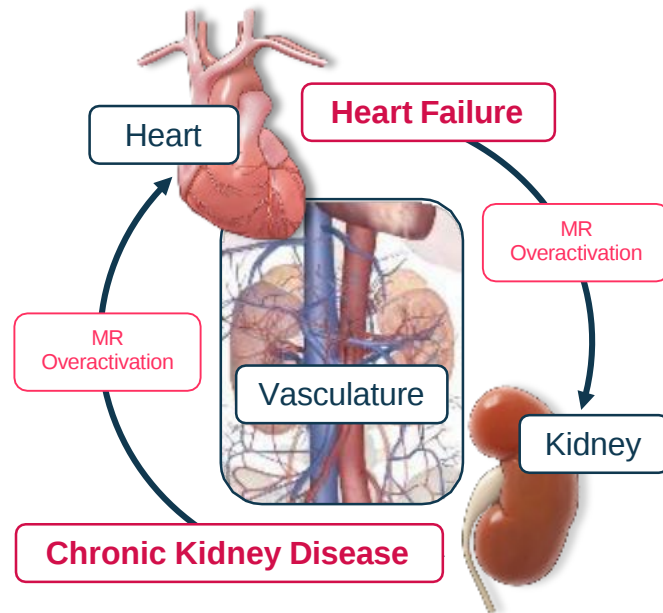
Mechanisms of MRA-Mediated Cardiovascular and Renal Protection via Inhibition of Aldosterone-Induced MR Overactivation



ns-MRA: non-steroidal Mineralocorticoid Receptor Antagonist
 Curr Diab Rep. 2019 Jan 23;19(1):4.

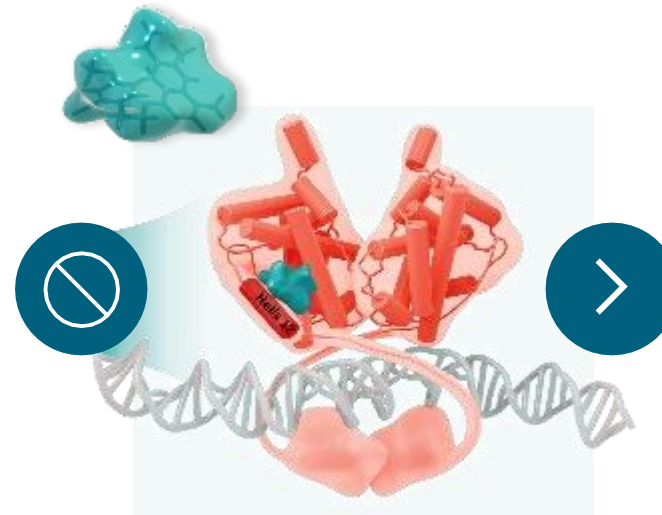
Highly Selective Inhibition of MR Overactivation With Finerenone to Address Fundamental Drivers of Disease Progression

Vicious Cycle of Worsening Disease



Pathophysiologic Heart-kidney Interplay

Finerenone



- ✓ Reduces Fibrosis
- ✓ Reduces Inflammation
- ✓ Reduces Oxidative Stress
- ✓ Improves Endothelial Function

Halting the Vicious Cycle by Blocking MR Overactivation

- // Highly selective inhibition of the MR receptor – reducing MR overactivation¹
- // Improved heart and kidney health²
- // Improved patient outcomes²
- // Breaking the MR-induced spiral of pathogenic heart-kidney damage^{2,3}
- // Address fundamental drivers of end-organ damage in HF and LVEF $\geq 40\%$ ^{2,3}

HF: Heart failure; LVEF: Left ventricular ejection fraction; MR: Mineralocorticoid receptor

¹ Kolkhof P, et al. Handb Exp Pharmacol 2017;243:271–305 ² Kolkhof P, et al. Int J Mol Sci 2022, 23(16):9243 ³ Epstein M, et al. Am J Kidney Dis 2022;80(5):658-666

Due to Its Distinct Structural and Pharmacological Properties, Finerenone's Clinical Profile Significantly Differs from Other MRAs

Structural and pharmacological properties of MRAs²

	Spironolactone	Eplerenone	Finerenone
MRA Class	Steroidal	Steroidal	Non-steroidal
Potency	High	Low	High
Selectivity	Low	Medium	High
Metabolites	Multiple, active	No active	No active
Tissue distribution ³	Kidney>>heart (>6-fold)	Kidney>heart (~3-fold)	Balanced (1:1)



Indication and key studies



HF with LVEF ≥40%: TOPCAT study failed⁴



HF with LVEF ≥40%: not tested



Significant risk reduction in HF with LVEF ≥40% and patients with CKM



HF with LVEF <40%: class 1 recommendation¹⁻³ (RALES study)



HF with LVEF <40%: class 1 recommendation¹⁻³ (EPHESUS study)



First launch

1960

2002

2021
in CKD/T2D

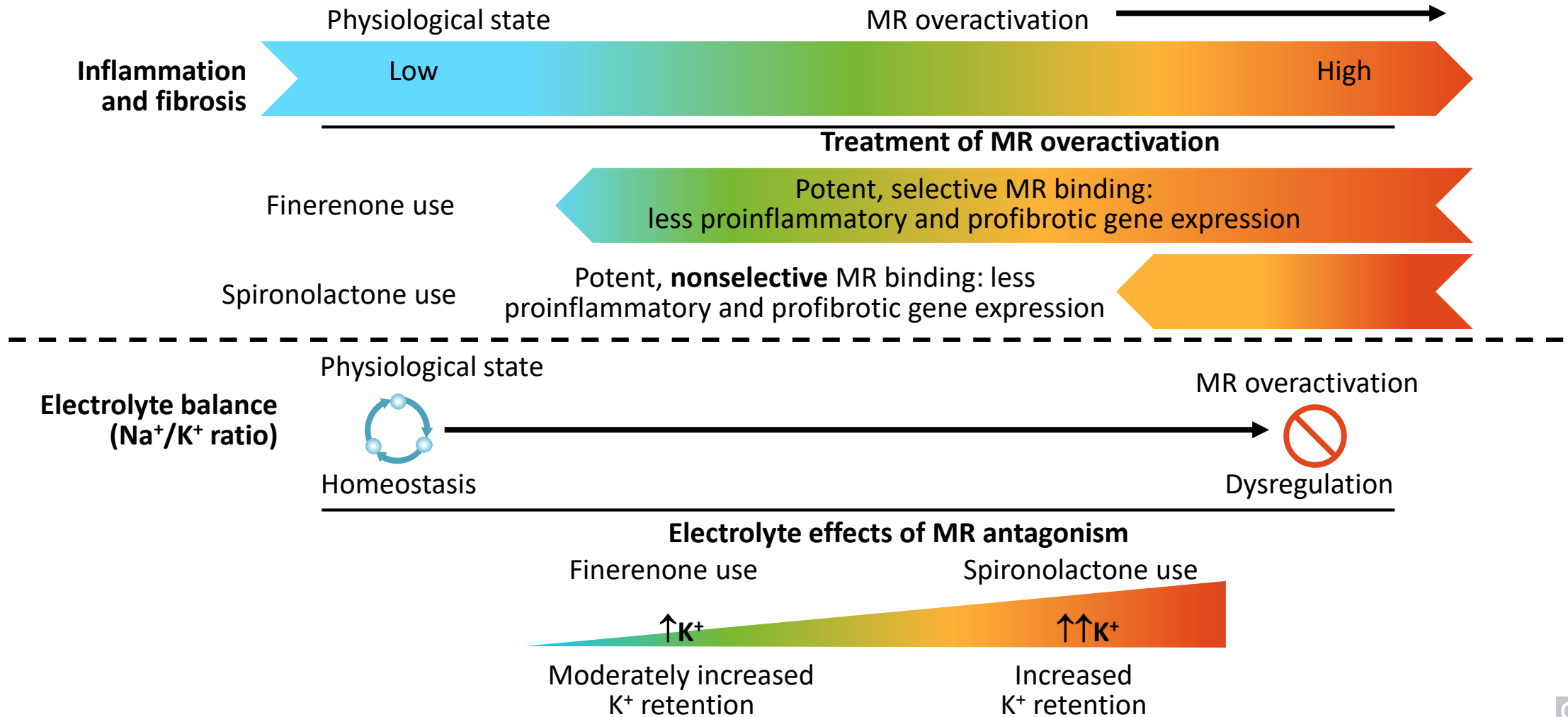
Characteristics of Finerenone

- // Significant molecular and pharmacological differences that explain cardiorenal clinical effects⁴
- // High selectivity for the MR over other steroid hormone receptors, which prevents antiandrogenic and progestational side effects⁴
- // Balanced cardiac and kidney distribution
- // Low incidence of hyperkalaemia-related adverse events with clinical impact and permanent treatment discontinuation⁵

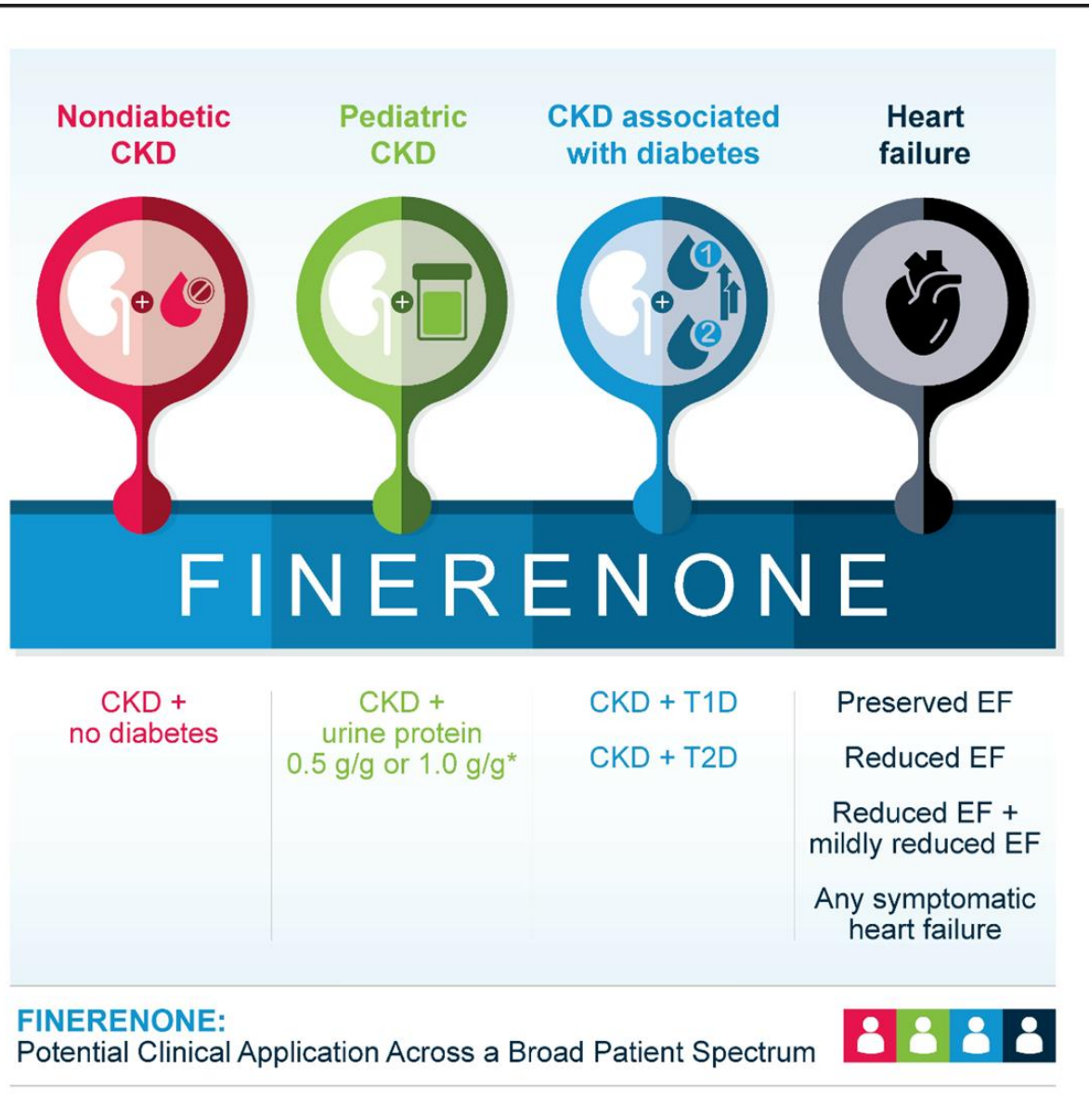
CKM: Cardiovascular-kidney-metabolic; HFpEF: Heart Failure with preserved ejection fraction; HFrEF: Heart Failure with reduced ejection fraction; LVEF: Left ventricular ejection fraction; MRA: Mineralocorticoid receptor antagonist

¹ Kolkhof P, Nowack C, Eitner F. Curr Opin Nephrol Hypertens. 2015;24:417-424. ² Modified from: Kolkhof B, Borden SA. Mol Cell Endocrinol. 2012;350:310-317. ³ Determined in rodents. ⁴ Kintscher U, Bakris GL, Kolkhof P. Novel non-steroidal mineralocorticoid receptor antagonists in cardiorenal disease. Br J Pharmacol. 2022 Jul;179(13):3220-3234. ⁵ Agarwal R, Filippatos G, Pitt B, Anker SD, Rossing P, Joseph A, Kolkhof P, Nowack C, Gebel M, Ruilope LM, Bakris GL; FIDELIO-DKD and FIGARO-DKD investigators. Cardiovascular and kidney outcomes with finerenone in patients with type 2 diabetes and chronic kidney disease: the FIDELITY pooled analysis. Eur Heart J. 2022 Feb 10; 43(6):474-484. doi: 10.1093/eurheartj/ehab777. Erratum in: Eur Heart J. 2022 May 21;43(20):1989.

MRAs: Selectivity and Effects on Potassium



Finerenone Indications and Guidelines



FDA Approval

KERENDIA

Finerenone tablets

Indication:
To reduce the risk of sustained eGFR decline, end stage kidney disease, cardiovascular death, non-fatal myocardial infarction, and hospitalization for HF in adult patients with chronic kidney disease (CKD) associated with T2D

Dosage:
10 mg or 20 mg orally once daily based on eGFR and serum potassium thresholds

Adverse Effects:
Hyperkalemia, hypotension, and hyponatremia

DAILYROUNDS

FDA Indications

KERENDIA (finerenone) is indicated to reduce the risk of: cardiovascular death, hospitalization for heart failure, and urgent heart failure visits in adult patients with heart failure with left ventricular ejection fraction (HF LVEF) $\geq 40\%$ (10mg, 20mg, 40mg tablets)

Finerenone: Indication

- **FDA approved in 2021**

- **Indication**

- Indicated to reduce the risk of sustained eGFR decline, ESKD, CV death, nonfatal MI, and hospitalization for heart failure in adult patients with CKD associated with type 2 diabetes

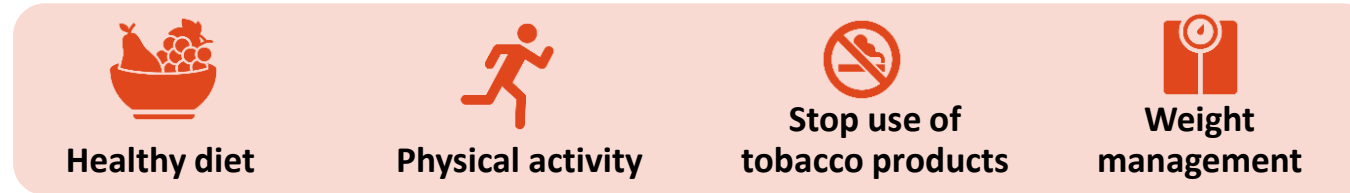
In Europe, finerenone is indicated for the treatment of chronic kidney disease (stage 3 and 4 with albuminuria) associated with type 2 diabetes in adults.

“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.”

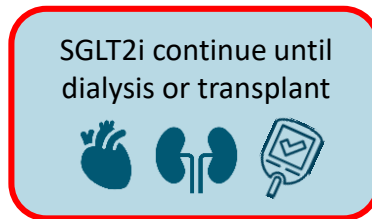
ADA Recommendation for Finerenone

KDIGO 2024: RASi and SGLT2i First Line in CKD: Role of GLP-1 RA Therapy Likely to Change!

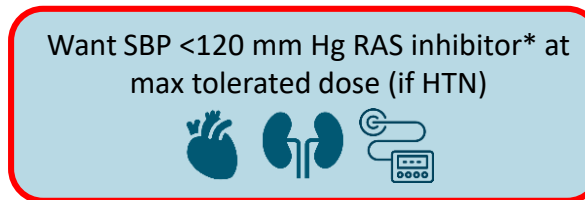
Lifestyle



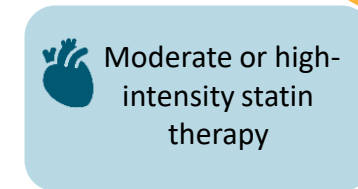
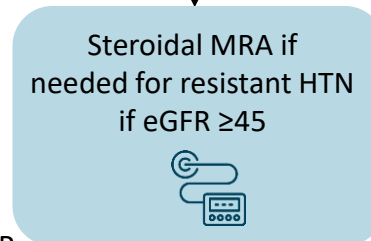
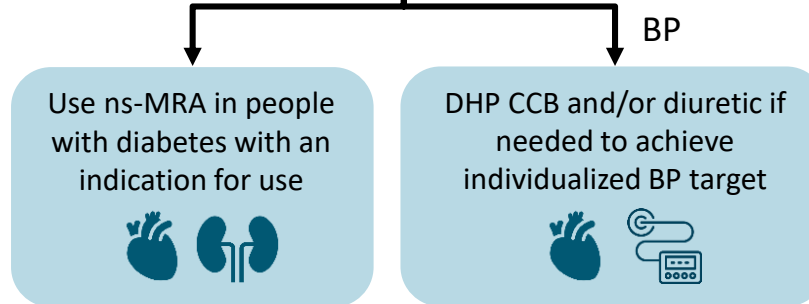
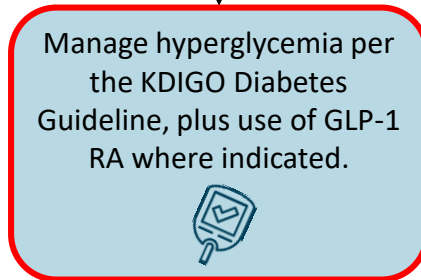
First-line drug therapy for most patients



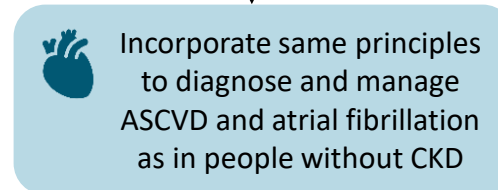
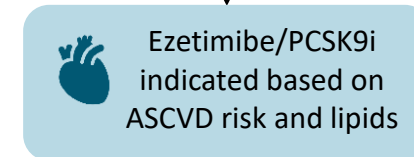
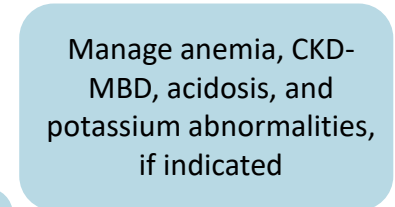
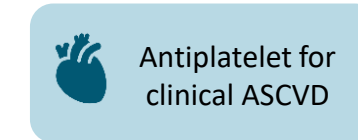
+



Targeted therapies for complications



ASCVD risk, lipids

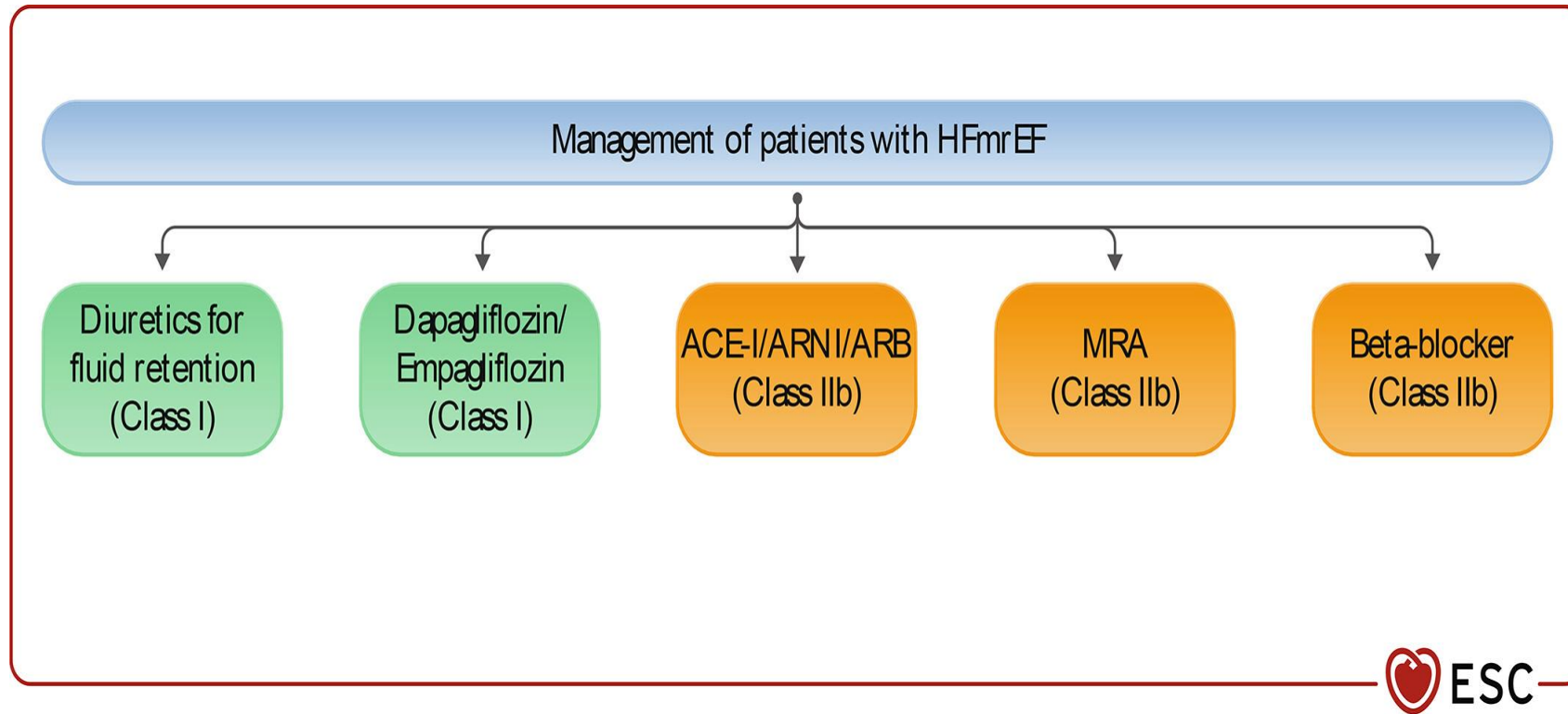


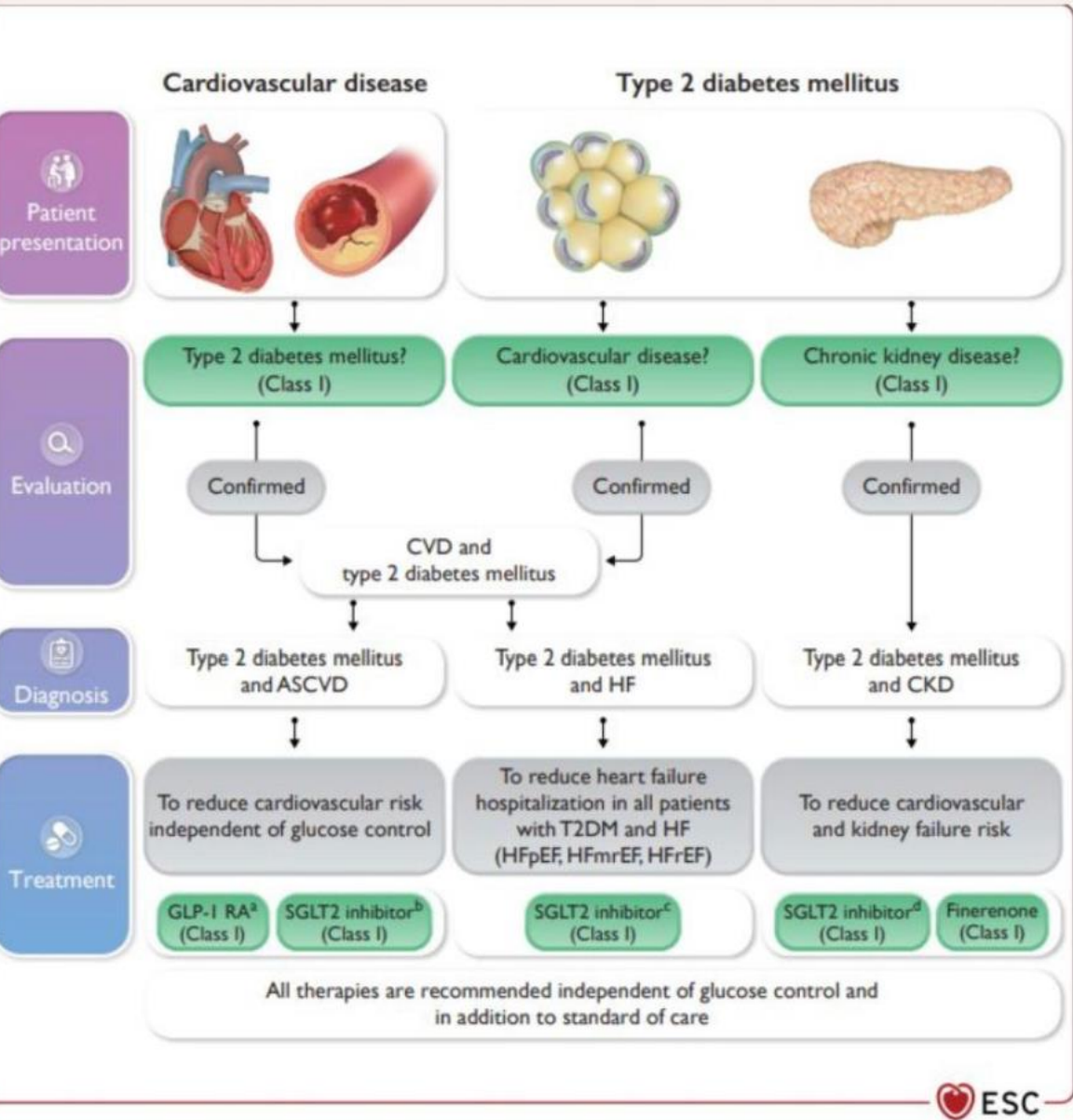
*ACEI or ARB are first-line therapy for BP control when albuminuria present; otherwise DHP CCB or diuretic can be considered

Kidney Disease: Improving Global Outcomes (KDIGO) CKD Work Group. Kidney Int. 2024;105:S117.

Slide credit: [clinicaleducationalalliance.com](https://www.clinicaleducationalalliance.com):

2023 Focused Update of the 2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure





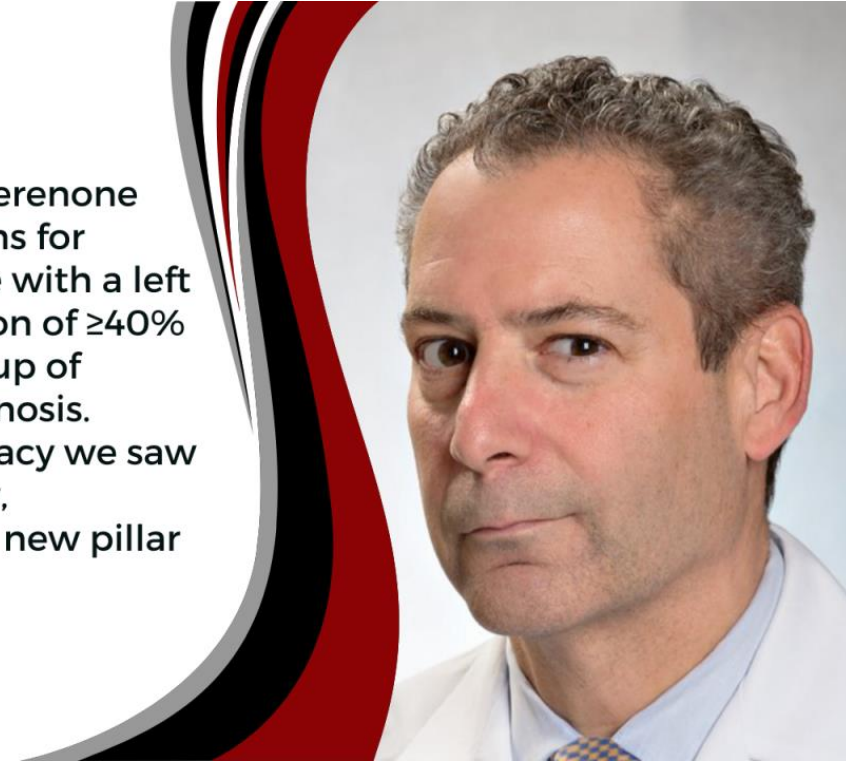
escardio.org • 1 min read

2023 ESC Guidelines for the management of cardiovascular disease in patients with diabetes

HCPLive®

“The FDA’s approval of finerenone expands treatment options for patients with heart failure with a left ventricular ejection fraction of $\geq 40\%$ – a large and growing group of patients with a poor prognosis. Based on the clinical efficacy we saw in the FINEARTS-HF study, finerenone can become a new pillar of comprehensive care.”

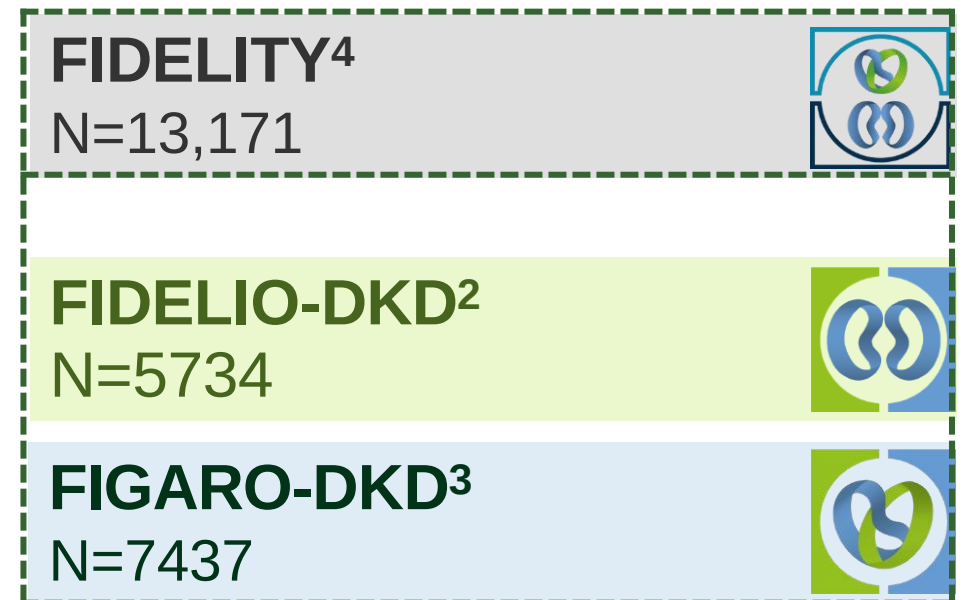
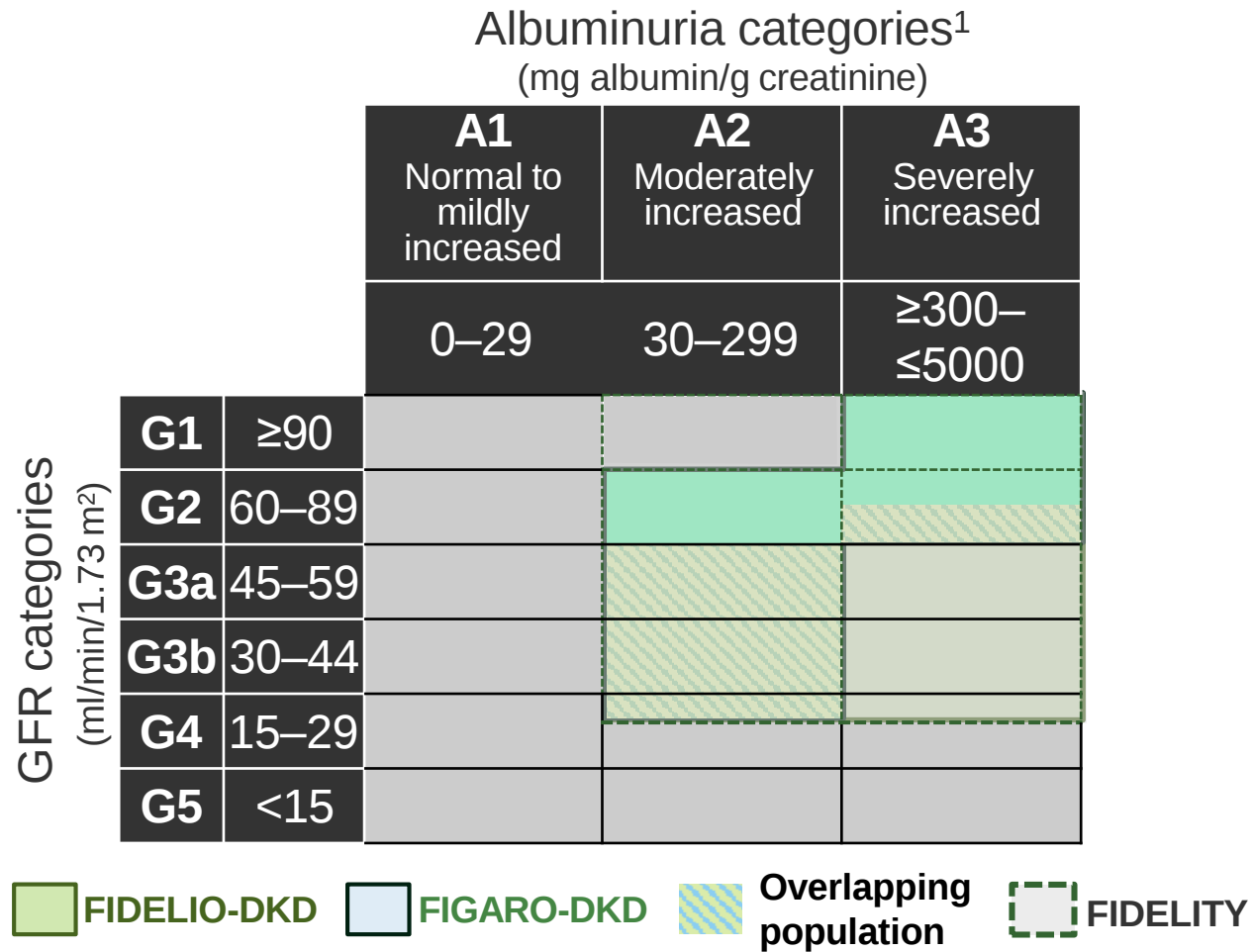
Scott D. Solomon, MD
Harvard Medical School, Mass General Brigham



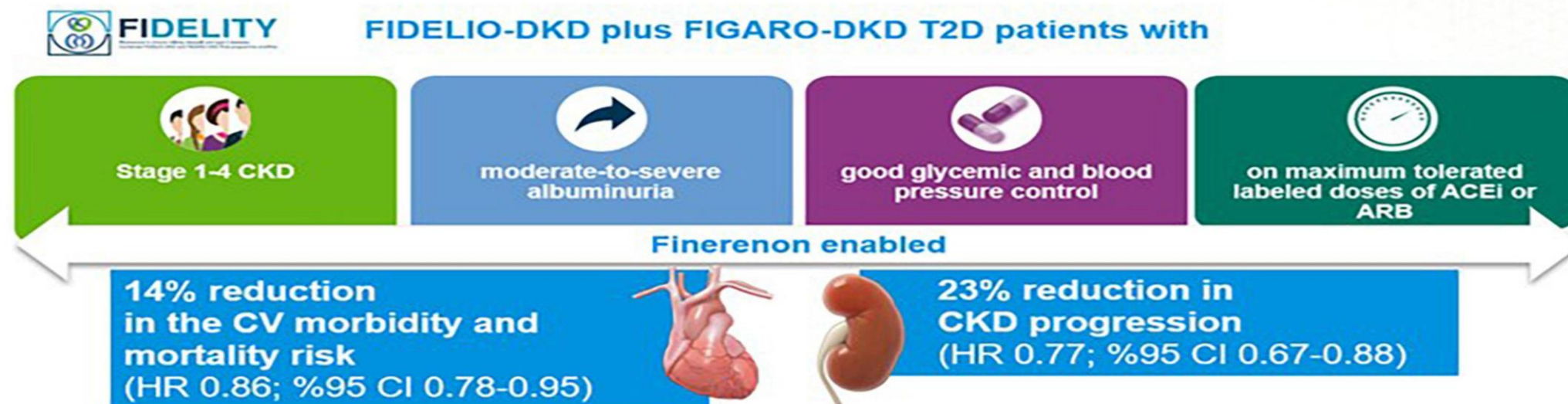
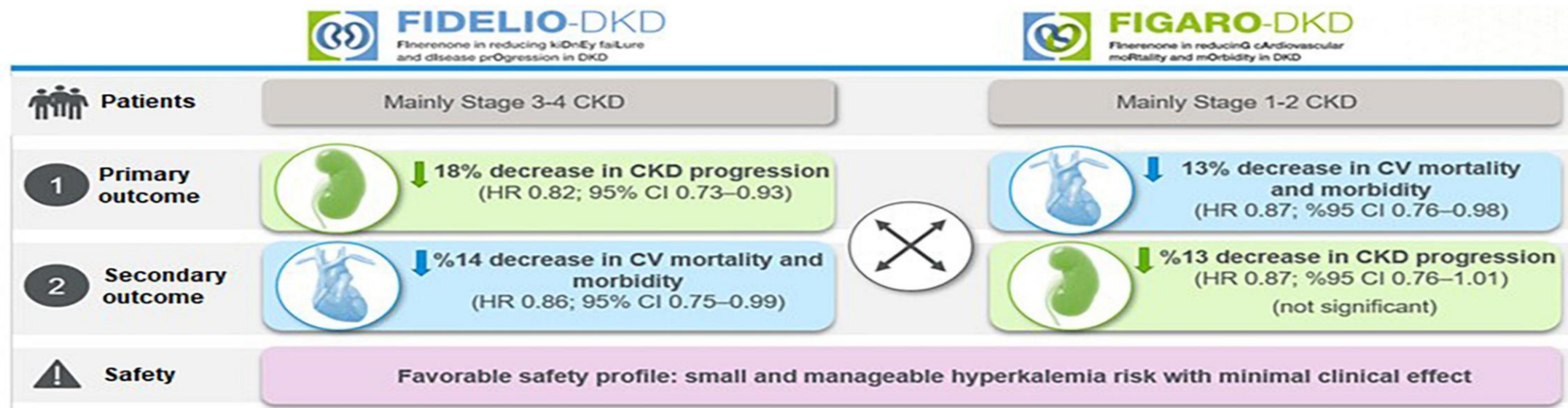
Trials of MR Antagonism in HF and CKD

	SPIRIT-HF	SPIRRIT	FINEARTS-HF	FIND-CKD
Therapy	Spironolactone	Spironolactone	Finerenone	Finerenone
Sample Size	1300	3200	5500	1500
Population	HF and LVEF ≥ 40%	HF and LVEF ≥ 40%	HF and LVEF ≥ 40%	Non-diabetic CKD
Primary Endpoint	CV Death + Total HF Hospitalization	CV Death + Total HF Hospitalizations	CV Death + Total HF Events	Change in eGFR Slope
Estimated Completion Date	2024	2022	2024	TBD

Evaluation of Finerenone Across the Spectrum of Kidney Disease in Type 2 Diabetes(Finerenone in Clinical Trials)



Finerenone in Clinical Trials



Finerenone is an effective treatment option in T2D patients with stage 1-4 CKD for renal and CV protection

Pooled Safety Data from 2 Pivotal RCTs of Finerenone in CKD



Finerenone had a modest effect on blood pressure

Overall difference in mean SBP between groups:

	Month 4	Month 12
FIDELIO-DKD ¹	−3.9 mmHg	−3.0 mmHg
FIGARO-DKD ²	−3.5 mmHg	−3.0 mmHg
FIDELITY ³	−3.7 mmHg	−3.0 mmHg



HbA1c levels and body weight were similar in both groups throughout the study



There were no differences in acute kidney injury between groups



Sexual side effects (e.g. gynaecomastia) were rare and balanced between groups

FIDELITY pooled analysis: NNT to prevent one kidney outcome event at 3 years

HR (95% CI)	ARR (95% CI) at 36 months	NNT (95% CI) at 36 months
0.77 (0.67–0.88)	–1.7% (–2.6 to –0.7)	60 (38–142)

- Hazard ratio = **0.77** – equivalent to a **23%** relative risk reduction
- Absolute risk reduction = **1.7%** at 3 years
- NNT to prevent one kidney outcome event was **60** at 3 years



FINEOVATE to Further Support Finerenone's Ambition as a Foundational Treatment Across the Spectrum of CKD and HF



FINEOVATE



Paediatric CKD



September 2028*



March 2027*

Nondiabetic CKD



February 2026*

CKD and T1D



October 2025*

CKD and T2D



February 2025*



January 2028*

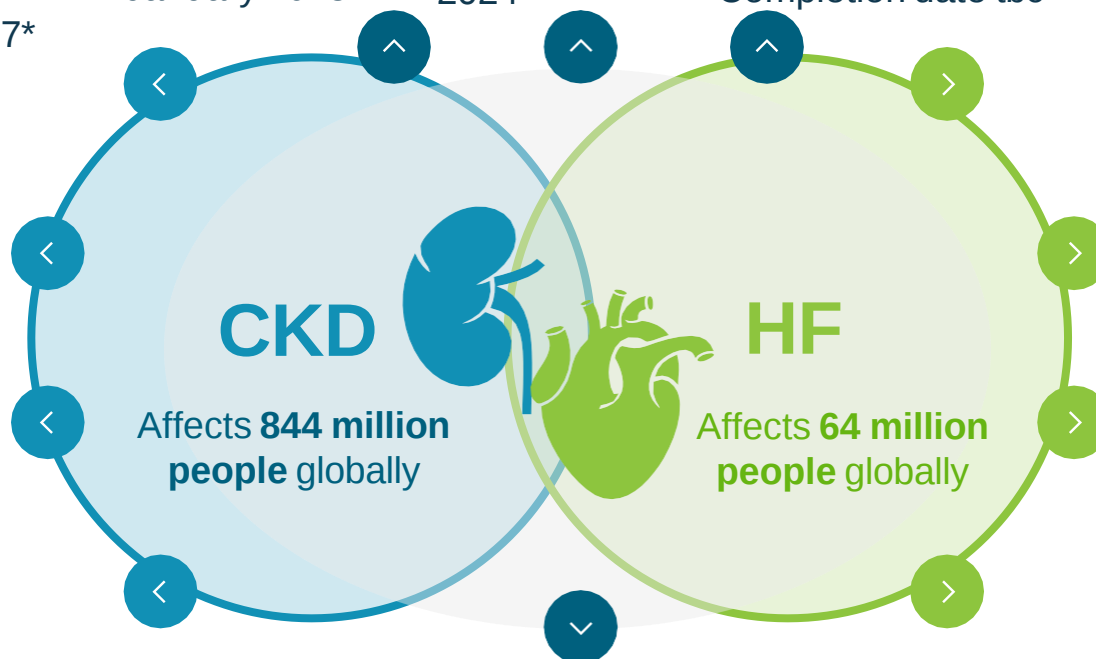
Real-world evidence



2024#



Completion date tbc



HF (LVEF ≤ 40) not on or not eligible to steroidal MRAs



January 2028*

Hospitalised for HF (LVEF $\geq 40\%$)



April 2026*

Hospitalised for HF independent of LVEF



SGLT2i combination therapy
August 2025*



FIDELIO-DKD



Symptomatic HF (LVEF $\geq 40\%$)



CKD: Chronic kidney disease; HF: Heart failure; HFREF: Heart failure with reduced ejection fraction; LVEF: Left ventricular ejection fraction; MRA: Mineralocorticoid receptor antagonist; SGLT2i: Sodium-glucose cotransporter-2 inhibitors; T1D: Type 1 diabetes mellitus; T2D: Type 2 diabetes mellitus
*Estimated study completion date; #estimated study completion dates for the FIRST-2 and FINEGUST studies are June 2024 and June 2025, respectively. All dates based on CT.gov – last accessed Aug 2024
Kerendia Investor Webinar /// September 2, 2024

Finerenone Dosing and Monitoring

1 INITIATE

Measure serum potassium

Do not initiate KERENDIA if serum potassium >5.0 mEq/L.

If >4.8 to 5.0 mEq/L, initiation may be considered with additional potassium monitoring within the first 4 weeks based on clinical judgment and serum potassium levels.



Measure eGFR to determine recommended starting dose

10 mg | eGFR ≥ 25 to < 60 mL/min/1.73 m²

20 mg | eGFR ≥ 60 mL/min/1.73 m²

Not recommended | eGFR < 25 mL/min/1.73 m²



2 CHECK LABS

After initiation, restart, or dose adjustment of KERENDIA:



In 4 weeks, check serum potassium



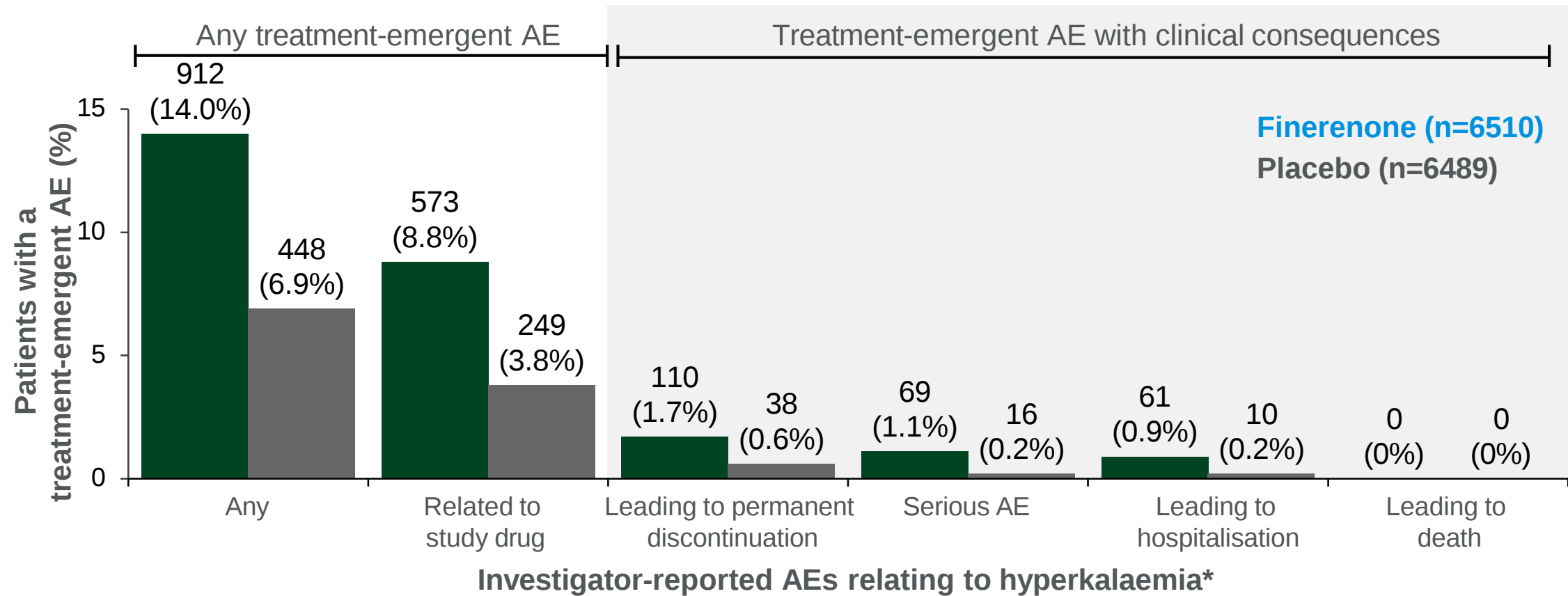
3 ADJUST: Target daily dose of KERENDIA is 20 mg daily

Current serum potassium (mEq/L)	Current dose 10 mg once daily	Current dose 20 mg once daily
≤ 4.8	Increase the dose to 20 mg once daily*	Maintain 20 mg once daily
> 4.8 to 5.5	Maintain 10 mg once daily	Maintain 20 mg once daily
> 5.5	Withhold KERENDIA. Consider restarting at 10 mg once daily when serum potassium ≤ 5.0 mEq/L	Withhold KERENDIA. Restart at 10 mg once daily when serum potassium ≤ 5.0 mEq/L

*if eGFR has decreased by more than 30% compared to previous measurement, maintain 10 mg dose.



Finerenone Impact on Hyperkalemia in Pivotal RCTs

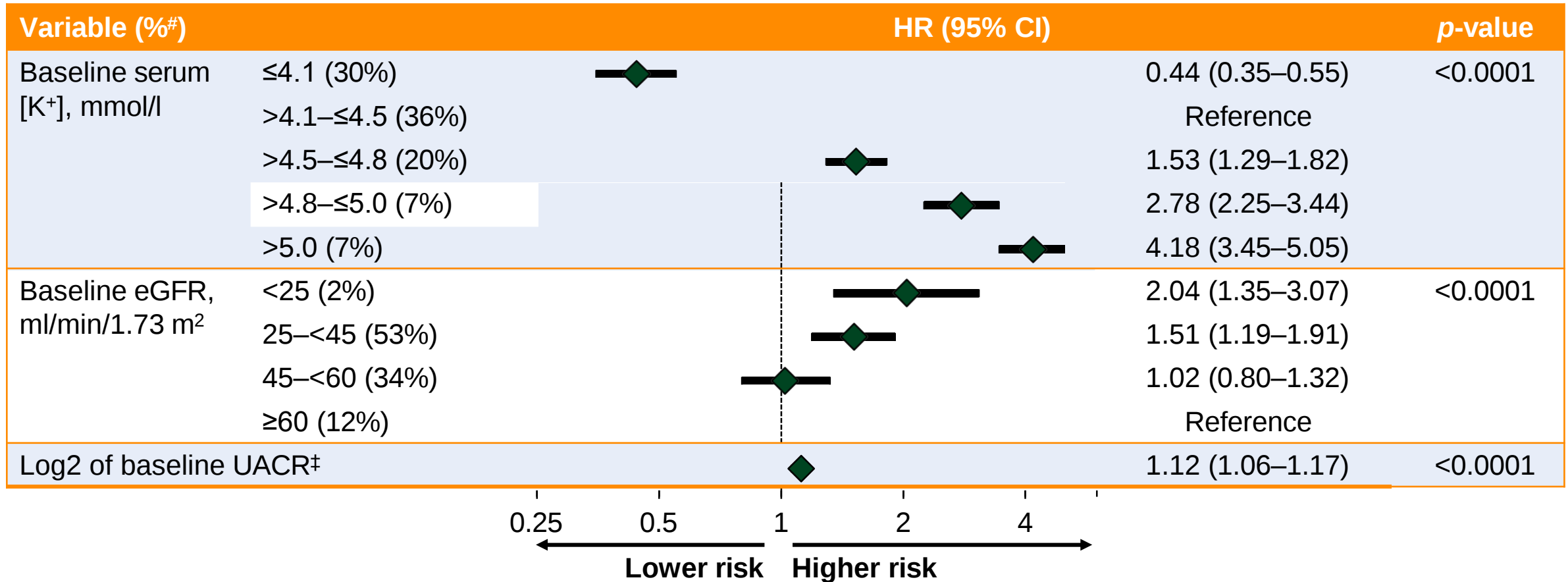


There were no deaths due to hyperkalaemia, and the incidences of treatment discontinuation or hospitalisation due to hyperkalaemia were low

*Investigator-reported AEs using the MedDRA preferred terms 'hyperkalemia' and 'blood potassium increased'.
MedDRA, Medical Dictionary for Regulatory Activities

Higher baseline [K⁺], lower eGFR and higher UACR were associated with higher risk of hyperkalaemia*

FIDELIO-DKD



After adjustment for age, sex, baseline UACR, baseline eGFR, baseline serum [K⁺], baseline medication use (diuretic use, β -blocker use and SGLT-2i use) and treatment assignment (finerenone vs placebo); #

Frequency of potassium monitoring

Finerenone USPI label recommendations regarding potassium measurement¹

- **Measure serum potassium and eGFR in all patients before initiation of treatment with finerenone and dose accordingly. Do not initiate finerenone if serum potassium is >5.0 mmol/l**
- **Measure serum potassium periodically during treatment with finerenone and adjust dose accordingly**
- **More frequent monitoring** may be necessary for patients at **risk for hyperkalaemia**, including those on **concomitant medications** that impair potassium excretion or increase serum potassium

		Current finerenone dose	
		10 mg once daily	20 mg once daily
Current serum potassium (mmol/l)	≤4.8	Increase the dose to 20 mg once daily*	Maintain 20 mg once daily
	>4.8 – 5.5	Maintain 10 mg once daily	Maintain 20 mg once daily
	>5.5	Withhold finerenone. Consider restarting at 10 mg once daily when serum potassium ≤5.0 mmol/l	Withhold finerenone. Restart at 10 mg once daily when serum potassium ≤5.0 mmol/l

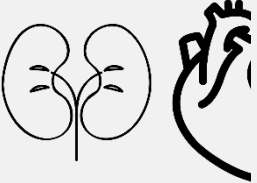
KDIGO practical guidance²

- Changes in **BP, serum creatinine, and serum potassium** should be checked **within 2–4 weeks of initiation** or increase in the dose of a RASi, depending on the current eGFR and serum potassium.
- In patients at **risk for hyperkalemia**, measuring **serum potassium before and at 1–2 weeks after initiation of RASi is recommended**

ESC guidance^{3,4}

- Check **blood chemistry** at **1 and 4 weeks after starting/up-titrating MRA**
- **Potassium binders may be considered** in patients with **HF with or without CKD to manage hyperkalaemia**
- **Potassium binders** may be **considered** in selected **patients with HF with or without CKD** to allow **up-titration of MRAs** while avoiding hyperkalaemia

Finerenone : Less Serum K Change with Finerenone Compared to Spironolactone

Program		Patients	Comparator	Δ Serum K
ARTS ^[a]		CKD and HF	Spironolactone	↓
ARTS-HF ^[b]		HFrEF	Eplerenone	↔
ARTS-DN ^[c]		CKD + A2/A3	Placebo	↑

- Bakris GL, et al. *JAMA*. 2015;314:884-894; Filippatos G, et al. *Eur Heart J*. 2016;37:2105-2114; Pitt B, et al. *Eur Heart J*. 2013;34:2453-2463.

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Clinical Trials Evaluating the Safety and Efficacy of Finerenone in Patients with Heart Failure, Chronic Kidney Disease and/or Type 2 Diabetes

Citation: Cardiac Failure Review 2024;10:e19.
<https://doi.org/10.15420/cfr.2024.11>

Parameter	ARTS 2013 ³¹	ARTS-HF 2016 ³²
Study population	HFrEF and mild to moderate CKD	HFrEF and T2D and/or CKD
Sample size, n	Part A: 65 Part B: 392	1,066
Mean age, years	Part A: 66.3 Part B: 72.1	71.2
Active arm	Part A: finerenone dose: 2.5, 5, or 10 mg once daily. Part B: finerenone dose: 2.5, 5, or 10 mg once daily or 5 mg twice daily.	Once daily finerenone dose: 2.5, 5, 7.5, 10, or 15 mg (on day 30, finerenone dose uptitrated to: 5, 10, 15, 20, or 20 mg respectively)
Control arm	Placebo (part A and B); or oral spironolactone (open-label) (once daily 25 or 50 mg) (Part B only)	Eplerenone (25 mg every other day, on day 30, titrated up to 25/day and on day 60, up to 50 mg/day)
Follow-up	28 days	90 days
Primary outcome	Change in serum potassium	Efficacy and safety of finerenone at different doses. The proportion of patients with reduction of plasma NT-proBNP (>30%) from baseline to day 90.
Findings	Finerenone demonstrated comparable efficacy to spironolactone 25 or 50 mg/day in diminishing of haemodynamic stressors while exhibiting fewer cases of hyperkalaemia	Finerenone was well tolerated and resulted in a comparable proportion of patients achieving a ≥30% decrease in NT-proBNP levels compared with eplerenone

CKD = chronic kidney disease; HF = heart failure; HFrEF = heart failure with reduced ejection fraction; NT-proBNP = N-terminal pro-B-type natriuretic peptide; T2D = type 2 diabetes.

A Primary Care Guide to the Management of Chronic Kidney Disease in People Living With Type 2 Diabetes



This review summarizes consensus recommendations for optimal screening and treatment of CKD in diabetes from an international group of experts representing multiple specialties.

Background — Diabetes is the leading cause of CKD worldwide; however CKD is underdiagnosed in people with diabetes.

People with CKD in the U.S. unaware they have the disease:



9 out of 10 people

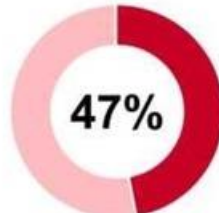
Underdiagnosed CKD

People with diabetes who have CKD:



CKD

People with ESKD due to diabetes:



ESKD

CardioRenal Initiative Meeting — Primary care advisory board: 40 experts from around the globe

Developed recommendations for:



Screening



CKD management

Based on:



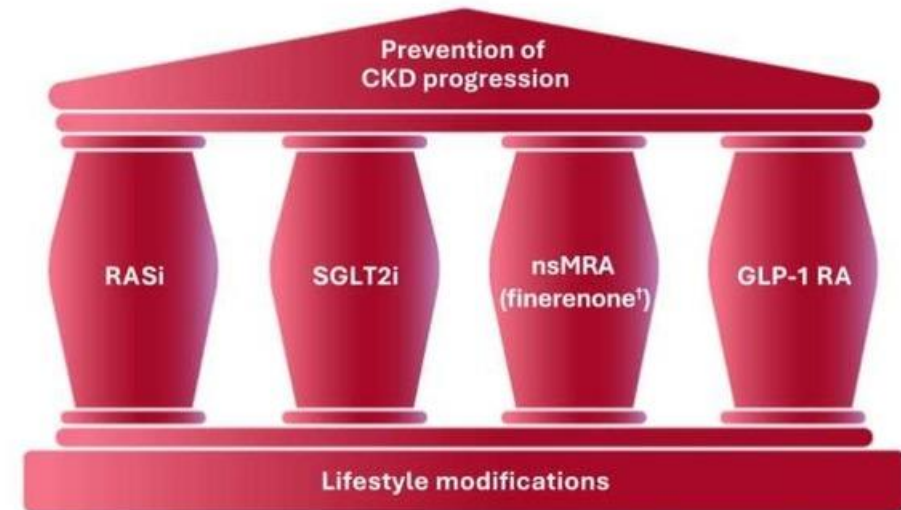
ADA and KDIGO guidelines

CKD screening recommendations

At-risk individuals should be screened regularly for impaired kidney function and kidney damage by measurement of eGFR and UACR.



Pillared approach for CKD management in T2D



*Finerenone is the only nsMRA approved for people with CKD and T2D.

Wright E et al., *Clinical Diabetes* 2025.

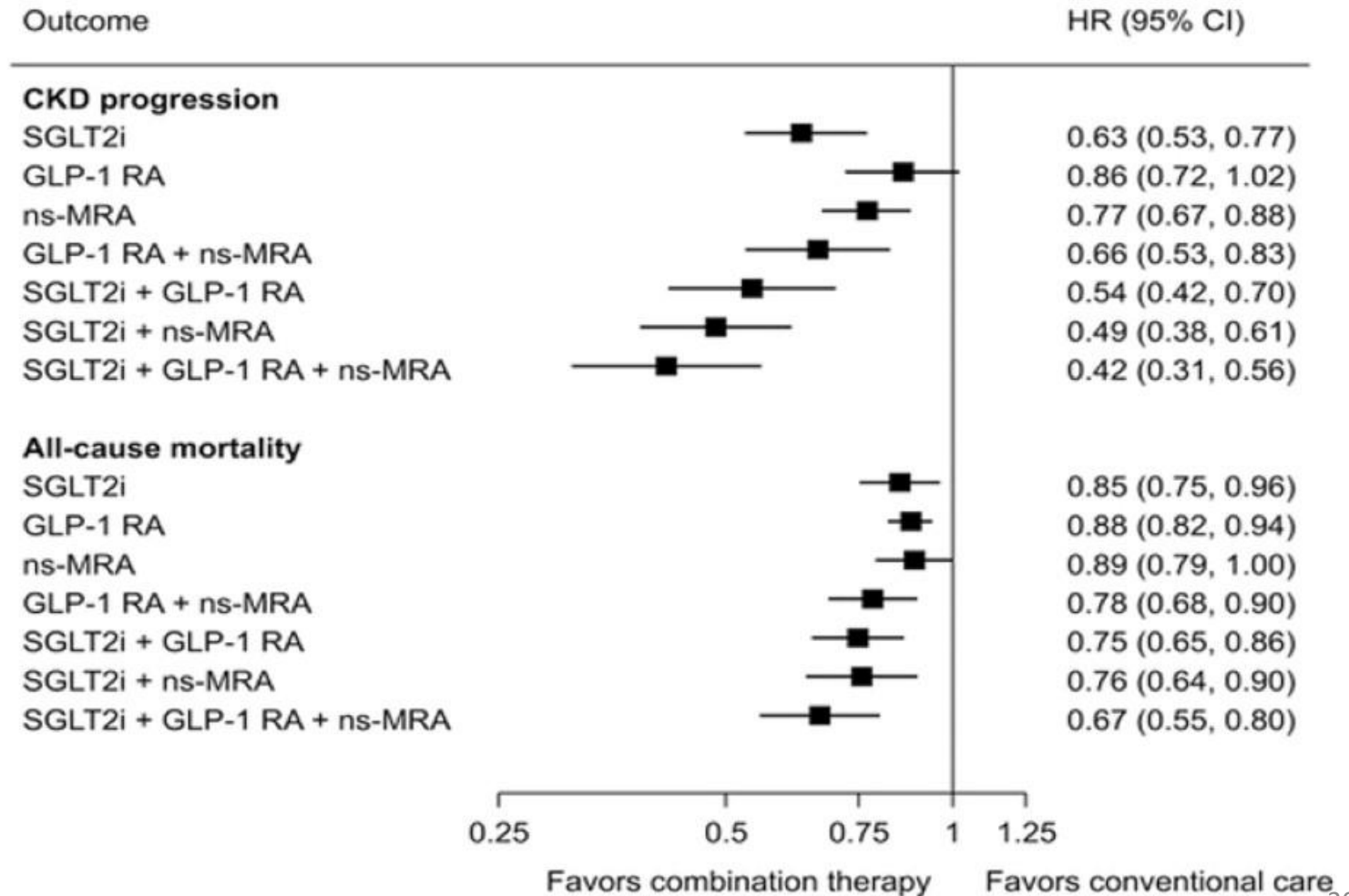


Individuals with T2D should be screened regularly for CKD.
Lifestyle modifications and a pillared approach are recommended to manage CKD.

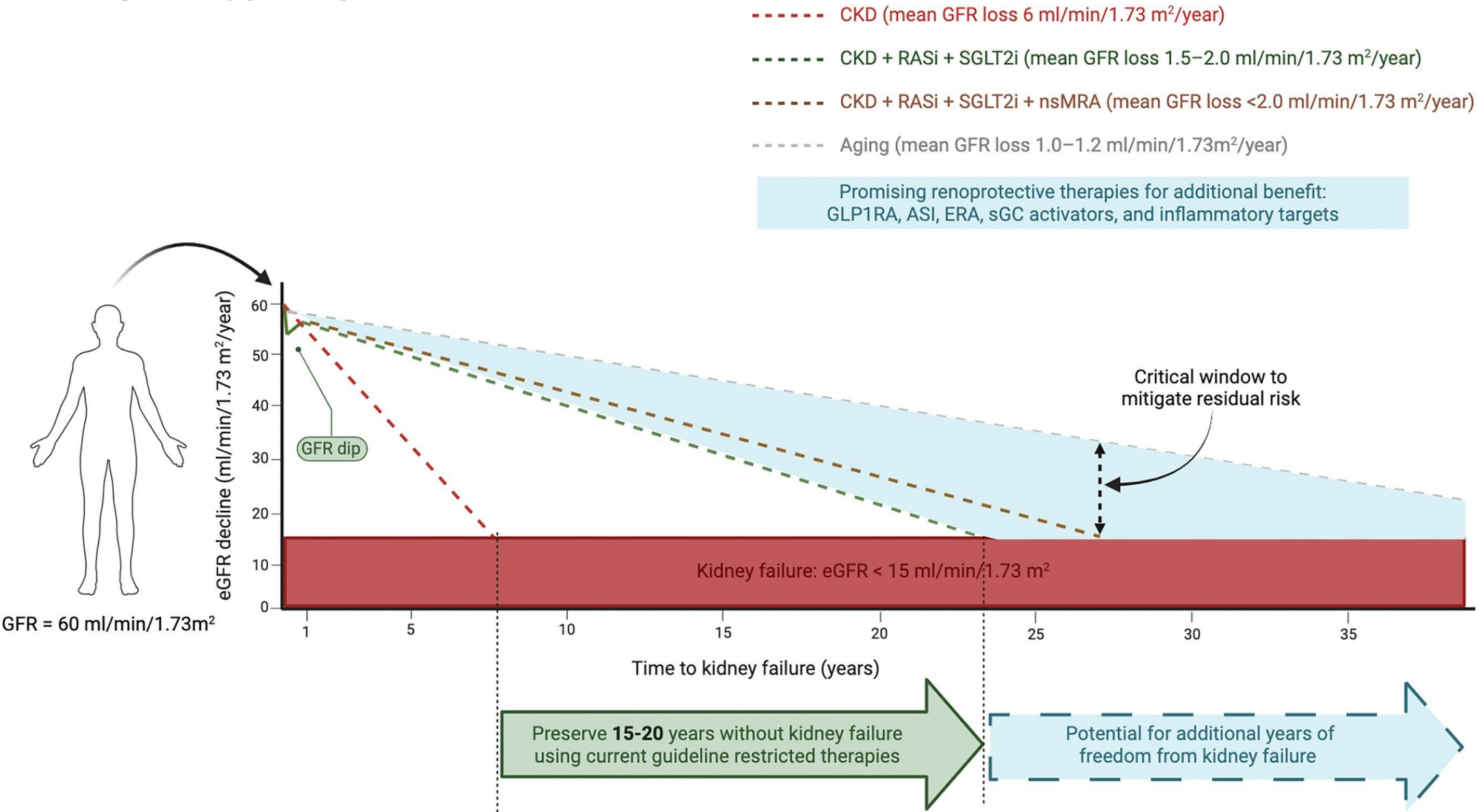
Combination Treatment Improves Renal and CV Prognosis in Patients With T2D

- **Pooled individual-level data of patients with T2D and UACR ≥ 30 mg/g**
- **2 SGLT2 inhibitor trials**
 - (N = 14,543); CANVAS and CREDENCE
- **2 ns-MRA trials**
 - (N = 13,026); FIDELIO-DKD and FIGARO-DKD
- **8 GLP-1 RA trials**
 - (N = 60,080)
- **Combination vs conventional care (RAS inhibitor)**

Estimated Treatment Effects on CKD Progression and All-Cause Mortality



Effect of combination drug therapy on eGFR decline in a prototypical patient with CKD





+/- Inodilator

IV diuretic

PO diuretic

Acute decompensation:

- Normalize hemodynamics
- Perform diagnostic workup
- Treat reversible triggers

PIONEER-HF

Inpatient initiation
eGFR ≥ 30 , EF $\leq 40\%$

SOLOIST-WHF

Inpatient initiation
eGFR ≥ 30 , any EF

ARNI^a
ACE/ARB

Beta-blocker

SGLTi

Hospital
discharge



MRA

GDMT up-titration

Clinical stabilization:

- Introduce sequential GDMT
- Discuss adherence/lifestyle
- Set up outpatient care

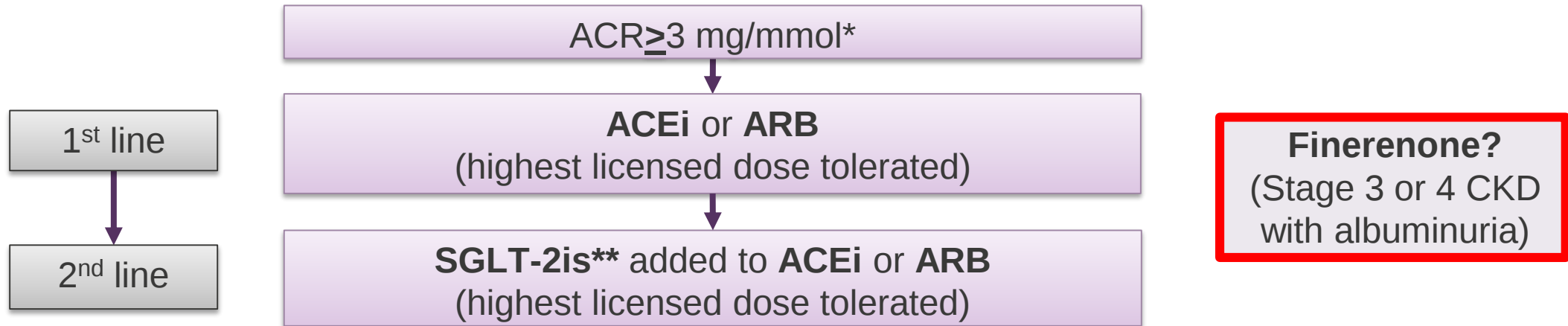
Outpatient optimization:

- Maximize clinical benefit
- $\uparrow$ Adherence $\downarrow$ Readmission
- Treat underlying etiology

Time

Treatment pathway – CKD & T2D

Finerenone as an add-on to existing treatment pathway and at a max dose angiotensin converting enzyme inhibitors (ACEi)/ angiotensin receptor blockers (ARBs)



- Does the treatment pathway reflect the expected positioning of finerenone in NHS clinical practice?
- Would finerenone be used instead of, or in combination with, an SGLT2i? Or both?

* **NICE guidelines 28 (NG28)** recommends SGLT2is *offered* if ACR >30 mg/mmol & *considered* if ACR is 3-30 mg/mmol, & meets licence criteria including eGFR thresholds. **Technology appraisal 775 (TA775)** recommends dapagliflozin (an SGLT-2i) as add-on if eGFR 25 to 75 ml/min/1.73 m² **and** T2D, **or** ACR ≤ 22.6 mg/mmol

Panel A

TRADITIONAL APPROACH

Maximise RAS blockade, add SGLT2i, re-assess in 3-6 months, add ns-MRA, consider GLP-1 RA
Limitations: Ignores excess early cardiovascular risk, very high risk of therapeutic inertia

RAPID SEQUENCE APPROACH

Simultaneous or rapid implementation of GDMT for type 2 diabetes and CKD
Considerations: Assumes all patients with CKD are at equally high risk, cost-effectiveness and early safety uncertain

ACCELERATED RISK-BASED APPROACH

Identify patients at highest risk using validated risk score, prioritise accelerated implementation of GDMT for type 2 diabetes and CKD
Appeal: Match intensity of treatment to risk, prioritise patients likely to obtain greatest absolute benefits

Implementation of combination GDMT in Type 2 diabetes and CKD

Panel B

Accelerated risk-based implementation of GDMT for type 2 diabetes and CKD

Stratify risk using validated risk score
(e.g. KDIGO heat map or KFRE)



Very high/high risk

- Early nephrology referral
- Up-front, accelerated sequence combination therapy

Moderate/low risk

- Primary care management
- As needed specialist referral
- Traditional, sequential add-on therapy

Accelerated Implementation to Maximize Cardiokidney Benefits

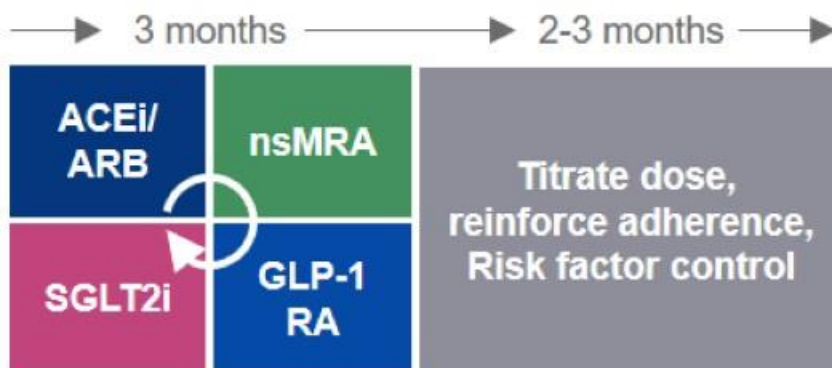
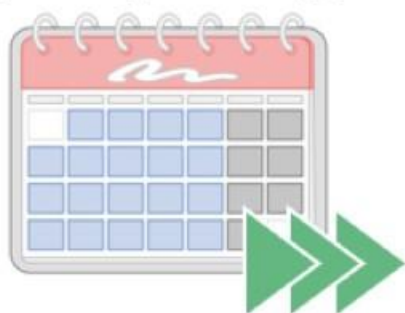
Traditional/conservative approach



Accelerated approach



Rapid sequence approach



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It can take 12 to 18 months until
guideline-directed medical
therapy for T2D
and CKD is fully implemented

How will finerenone be used with SGLT2is?
 Would finerenone be used in combination with an SGLT2i?
 Would finerenone be used instead of an SGLT2i when an SGLT2i is contraindicated?
 Would finerenone be used instead of an SGLT2i when an SGLT2i could be used instead?

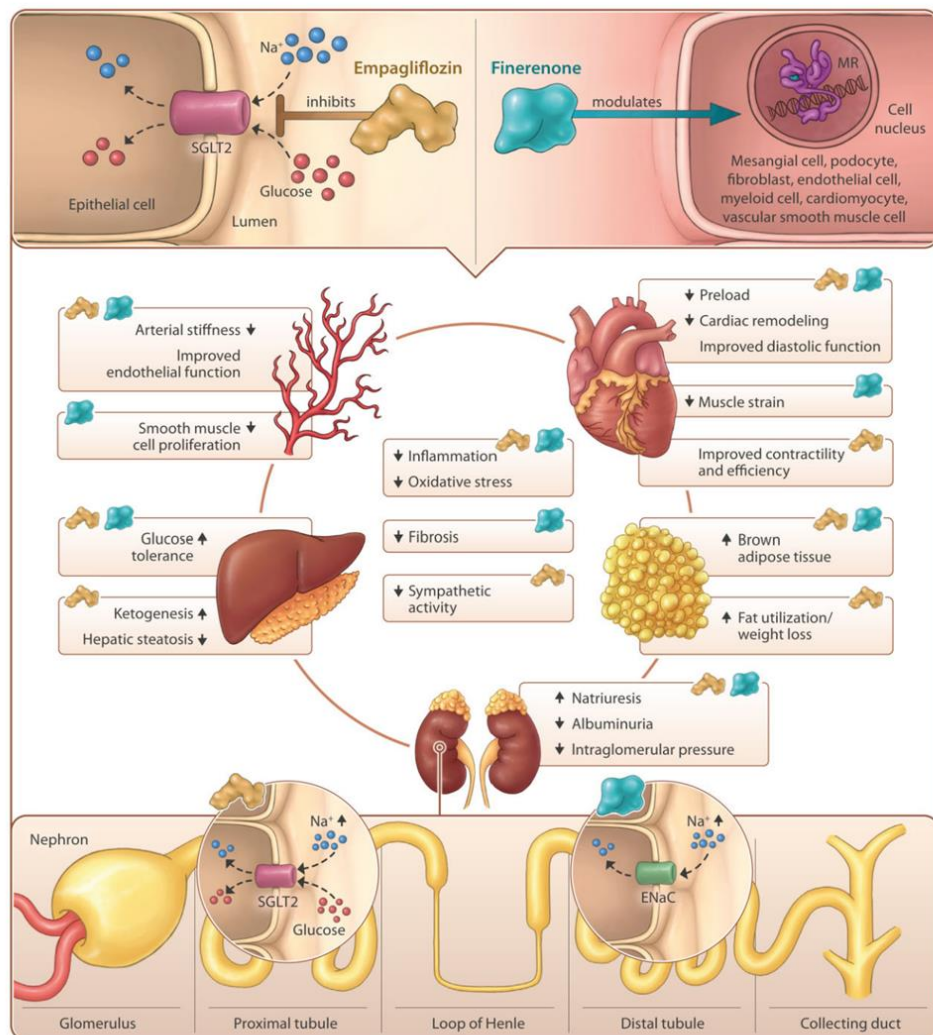


FIGURE 1: Proposed mechanisms for reducing adverse cardiovascular- and kidney-related outcomes based on preclinical and clinical studies

Design of the COMbination effect of FInerenone and Empagliflozin in participants with chronic kidney disease and type 2 diabetes using a UACR Endpoint study (CONFIDENCE)

Background

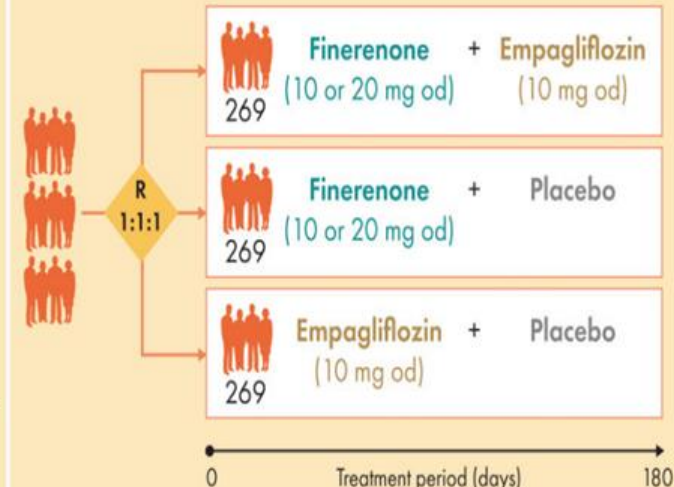
Both finerenone (nonsteroidal MRA) and empagliflozin (SGLT2i) can reduce kidney and cardiovascular events in people with CKD and T2D.

CONFIDENCE (NCT05254002) investigates whether dual therapy with finerenone and empagliflozin is superior to either agent alone in reducing albuminuria.

Participants

- 807 participants
- 125 centres
- 13 countries
- ≥ 18 years
- T2D, CKD stage 2–3
- UACR ≥ 300 to < 5000 mg/g
- T1D
- Serum K⁺ > 4.8 mmol/L
- Treatment with SGLT1/2i or MRA

Treatment arms



Primary outcomes

Relative change in UACR from baseline to 180 days in:

Dual therapy vs. Finerenone

Dual therapy vs. Empagliflozin

Conclusion

Should an additive effect be shown, early and efficient intervention with dual finerenone and SGLT2i therapy could slow disease progression and provide long-term benefits for people with CKD and T2D.

Finerenone and empagliflozin: is the combination better than either agent alone in CKD and Type 2 Diabetes?

Methods



Randomized,
double-blind trial



CKD + T2D



14 countries



98% ACEi/ARB users
23% GLP-1RA users



Stratified according
to eGFR and UACR

	UACR drop at day 180	Hyperkalemia	> 30% eGFR drop at day 30
 Empagliflozin 	29% ↓	3.8%	1.1%
Finerenone 	32% ↓	11.4%	3.8%
Empagliflozin & Finerenone 	52% ↓	9.3%	6.3%

! No unexpected adverse events

Conclusion: Among persons with both chronic kidney disease and type 2 diabetes, initial therapy with finerenone plus empagliflozin led to a greater reduction in the urinary albumin-to-creatinine ratio than either treatment alone.

VA by Michelle Fravel

Agarwal R, Green JB, Heerspink HJL, et al; CONFIDENCE Investigators. Finerenone with Empagliflozin in Chronic Kidney Disease and Type 2 Diabetes. N Engl J Med. 2025 Jun 5.

Finerenone: Who Should Prescribe It for CKD? Physician Associates (PA) Perspectives

Becky M. Ness MPAS, PA-C, Assistant Professor of Medicine, Mayo Clinic College of Medicine, Department of Nephrology, Rochester, MN, USA; and Heidi Webb MMS, PA-C, CAQ-HM, Bahl & Bahl Medical Associates, Pittsburgh, PA, USA

BACKGROUND



30-40%

of all patients with diabetes are affected by **Diabetic Kidney Disease**



Finerenone

was approved by the FDA for adults with **CKD associated with T2D** to reduce the risk of **kidney** and **CV** outcomes.

Physician Associates

should be empowered in **GDMT prescription** and other **kidney protection strategies**

KEY MESSAGE

Physician associates play a vital role in **diagnosing, monitoring, and managing** chronic kidney disease, diabetes mellitus, and cardiovascular disease.

Finerenone Benefits in DKD



Efficacy and Safety
tested in FIDELIO-DKD
and FIGARO-DKD



FDA Approval

to reduce the risk of sustained
eGFR decline, ESKD, CV
death, non-fatal MI, and
hospitalization for HF



Independent Benefit
with other CKD-T2D
GDMT

Role of Physician Associates



Early CKD Journey
identification and
prevention



Late CKD Journey
routinely monitor CKD
and its related conditions



Continuity of Care
ensuring treatment,
information, communication,
and management continuity

Barriers to Optimum Care



**Insufficient Patient
Engagement**
need to continue
discussing and educating



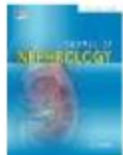
**Cost and Lack of
Referral Coordination**
disparities are major
challenges



**Unstandardized
Guidelines**
consensus is
increasing

CONCLUSION

Based on the proposed multidisciplinary guidelines, PAs should be more comfortable **implementing care and goal-directed therapies** to prevent the advancement of DKD.



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Conclusions

- **Mineralocorticoid receptor over-activation is a central driver of progression of heart and kidney disease**
- **Steroidal MRAs (spironolactone and eplerenone) form backbone therapy for patients with HFrEF, but do potentiate hyperkalemia**
- **Nonsteroidal MRAs (finerenone) slows kidney disease progression in CKD and may have lower risks of hyperkalemia**
- **MRAs can be easily combined with other effective therapies in HF and CKD**
- **Ongoing trials are underway evaluating finerenone in HFpEF and non-diabetic CKD**

Knowledge Check

Q7: Would you want to see a patient with CKD associated with T2DM on finerenone?

- A) Yes, given they are on first-line standard-of-care therapy**
- B) No, I do not see enough benefit**
- C) Depends**



Thank You For Kind Attention

