

پنام خداوند جان و خرد

Finerinone

from clinical needs to clinical application

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Background

- Type 2 diabetes is the leading cause of chronic kidney disease (CKD) worldwide.
- International guidelines for the management of CKD in patients with type 2 diabetes recommend control of hypertension and hyperglycemia, as well as the use of a renin–angiotensin system (RAS) blocker (an angiotensin-converting–enzyme [ACE] inhibitor or angiotensin-receptor blocker [ARB]) and, more recently, a sodium–glucose cotransporter 2 (SGLT2) inhibitor.
- Nonetheless, despite recommended treatment, a risk of CKD progression remains, and newer therapies are needed.

Introduction

- Evidence supports a pathophysiological role for overactivation of the mineralocorticoid receptor in cardiorenal diseases, including CKD and diabetes, through inflammation and fibrosis that lead to progressive kidney and cardiovascular dysfunction.
- Although a meta-analysis showed a 31% reduction in urinary protein or albumin excretion after treatment with a steroidal mineralocorticoid receptor antagonist in patients with CKD, data on hard clinical outcomes are lacking.
- Finerenone, a nonsteroidal, selective mineralocorticoid receptor antagonist, had more potent antiinflammatory and antifibrotic effects than steroidal mineralocorticoid receptor antagonists in preclinical models.

Introduction

- 💡 In the Finerenone in Reducing Kidney Failure and Disease Progression in Diabetic Kidney Disease (FIDELIO-DKD) trial, finerenone improved kidney outcomes in patients with predominantly stage 3 or 4 CKD with severely elevated albuminuria and type 2 diabetes, a population with high kidney risk.
- 💡 In the Finerenone in Reducing Cardiovascular Mortality and Morbidity in Diabetic Kidney Disease (FIGARO-DKD) trial, they evaluated whether treatment with finerenone would lead to lower risks of cardiovascular events and death from cardiovascular causes among patients with either stage 2 to 4 CKD and moderately elevated albuminuria or stage 1 or 2 CKD and severely increased albuminuria — a patient population at high cardiovascular risk that was excluded from or understudied in the FIDELIO-DKD trial.

Table I Pooled analysis study details

Study name	FIDELIO-DKD ⁷	FIGARO-DKD ¹⁰
Publication year	2020	2021
Study design	Phase III, randomized, double-blind, placebo-controlled, multicentre clinical trial	Phase III, randomized, double-blind, placebo-controlled, multicentre clinical trial
Sample size ^a	5734	7437
Inclusion criteria	<ul style="list-style-type: none">• Age ≥ 18 years• T2D and CKD defined as UACR 30–<300 mg/g, eGFR 25–<60 mL/min/1.73 m², and diabetic retinopathy, or UACR 300–5000 mg/g and eGFR 25–<75 mL/min/1.73 m²• Maximum tolerated dose of an RAS inhibitor• Serum potassium ≤ 4.8 mmol/L	<ul style="list-style-type: none">• Age ≥ 18 years• T2D and CKD defined as UACR 30–<300 mg/g and eGFR 25–90 mL/min/1.73 m², or UACR 300–5000 mg/g and eGFR ≥ 60 mL/min/1.73 m²• Maximum tolerated dose of an RAS inhibitor• Serum potassium ≤ 4.8 mmol/L
Exclusion criteria	<ul style="list-style-type: none">• Non-diabetic kidney disease• Uncontrolled hypertension^b• HbA1c $>12\%$• SBP <90 mmHg• Chronic symptomatic HFrEF^c• Recent CV event• Dialysis for acute kidney failure• Kidney transplant	<ul style="list-style-type: none">• Non-diabetic kidney disease• Uncontrolled hypertension^b• HbA1c $>12\%$• SBP <90 mmHg• Chronic symptomatic HFrEF^c• Recent CV event• Dialysis for acute kidney failure• Kidney transplant
Follow-up period, median	2.6 years	3.4 years
Primary outcome	Time to kidney failure, sustained $\geq 40\%$ decrease in eGFR from baseline, or renal death	Time to CV death, non-fatal MI, non-fatal stroke, or HHF
Secondary outcome	Time to CV death, non-fatal MI, non-fatal stroke, or HHF	Time to kidney failure, sustained $\geq 40\%$ decrease in eGFR from baseline, or renal death
Trial registry information	NCT02540993	NCT02545049



Effect of Finerenone on Chronic Kidney Disease Outcomes in Type 2 Diabetes(FIDELIO-DKD)

FIDELIO-DKD

- Finerenone has been shown to reduce the urinary albumin-to-creatinine ratio in patients with CKD treated with an RAS blocker, while having smaller effects on serum potassium levels than spironolactone.
- The Finerenone in Reducing Kidney Failure and Disease Progression in Diabetic Kidney Disease (FIDELIO-DKD) trial was designed to test the hypothesis that finerenone slows CKD progression and reduces cardiovascular morbidity and mortality among patients with advanced CKD and type 2 diabetes.

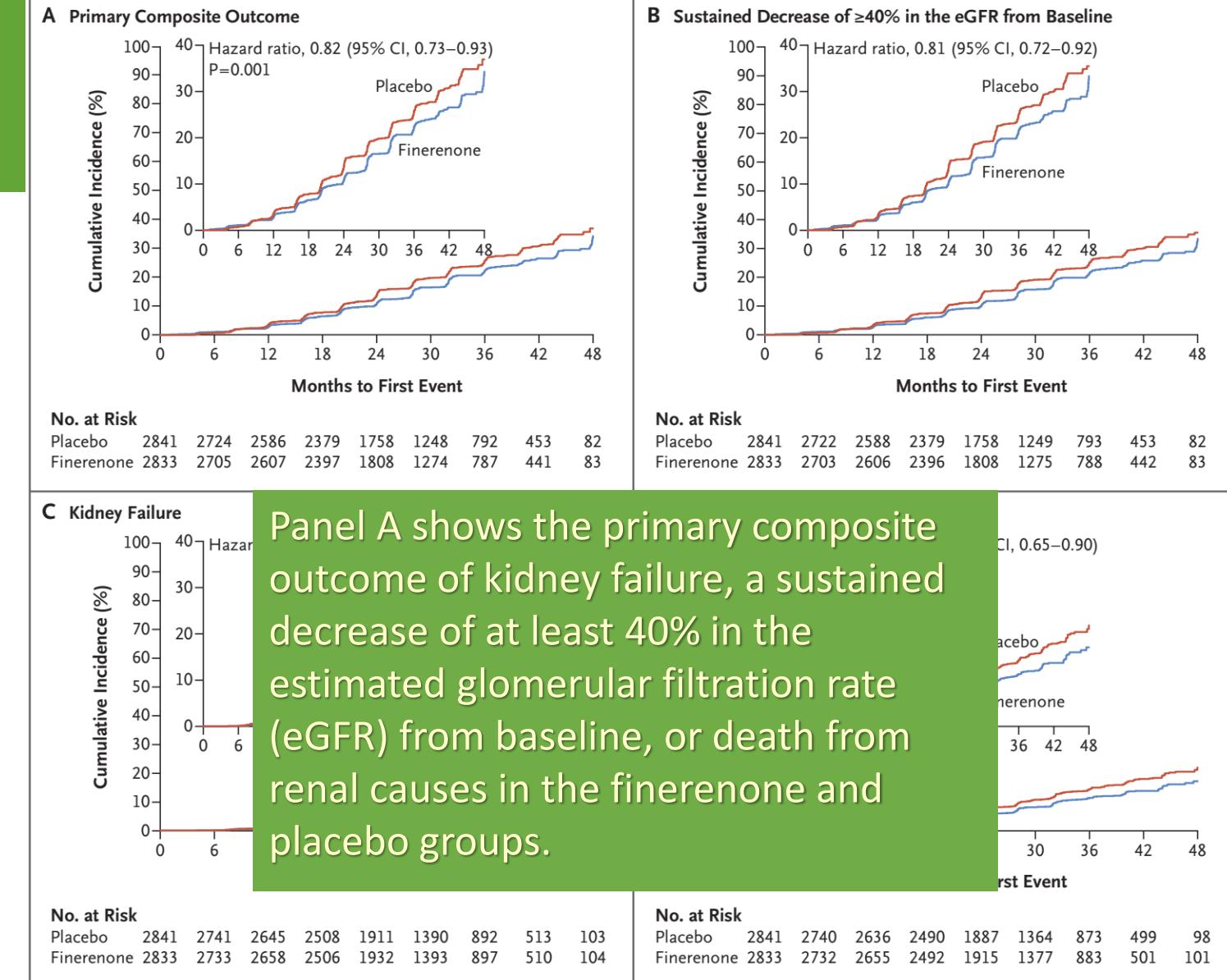
Outcomes were assessed in time-to-event analyses.

Panel A shows the primary composite outcome of kidney failure, a sustained decrease of at least 40% in the estimated glomerular filtration rate (eGFR) from baseline, or death from renal causes in the finerenone and placebo groups.

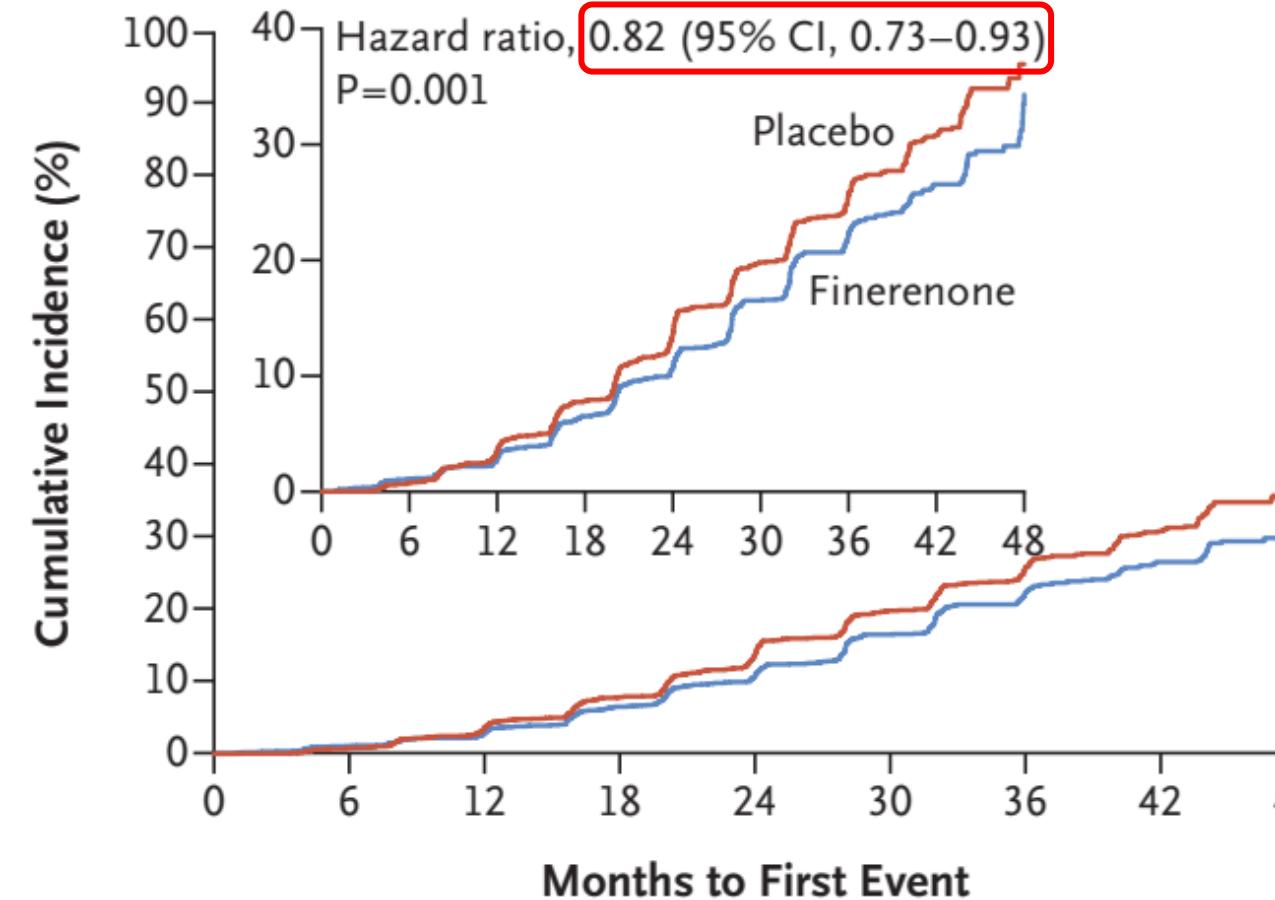
Panel B shows a sustained decrease of at least 40% in the eGFR from baseline maintained for at least 4 weeks (a component of the primary composite outcome).

Panel C shows kidney failure (defined as end-stage kidney disease or a sustained eGFR of <15 ml per minute per 1.73 m 2 of body-surface area, confirmed by a second measurement ≥ 4 weeks after the initial measurement); endstage kidney disease was defined as the initiation of long-term dialysis or kidney transplantation.

Panel D shows the secondary composite kidney outcome of kidney failure, a sustained decrease of at least 57% in the eGFR from baseline (equivalent to a doubling of the serum creatinine level) maintained for at least 4 weeks, or death from renal causes. Insets show the same data on an enlarged y axis. CI denotes confidence interval.



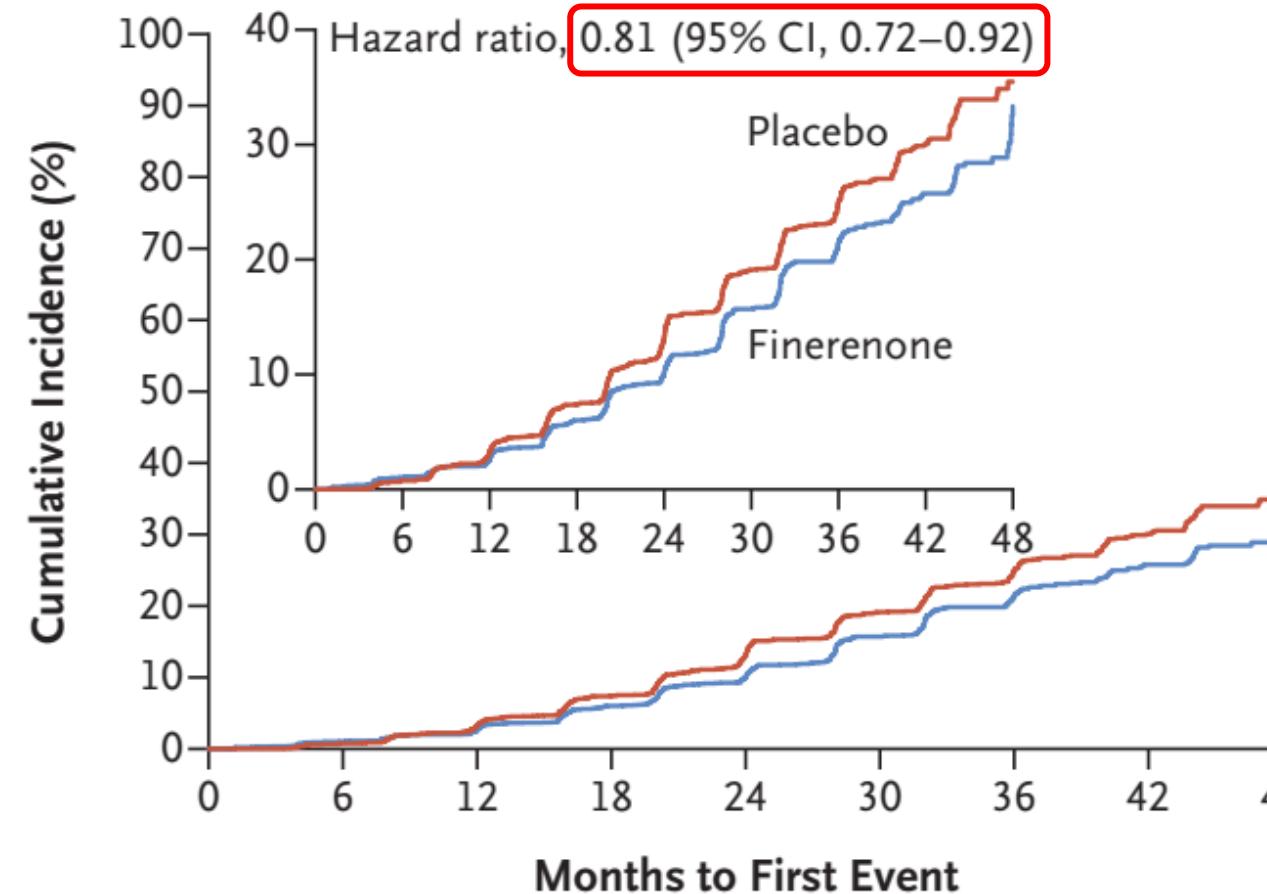
A Primary Composite Outcome



No. at Risk

Placebo	2841	2724	2586	2379	1758	1248	792	453	82
Finerenone	2833	2705	2607	2397	1808	1274	787	441	83

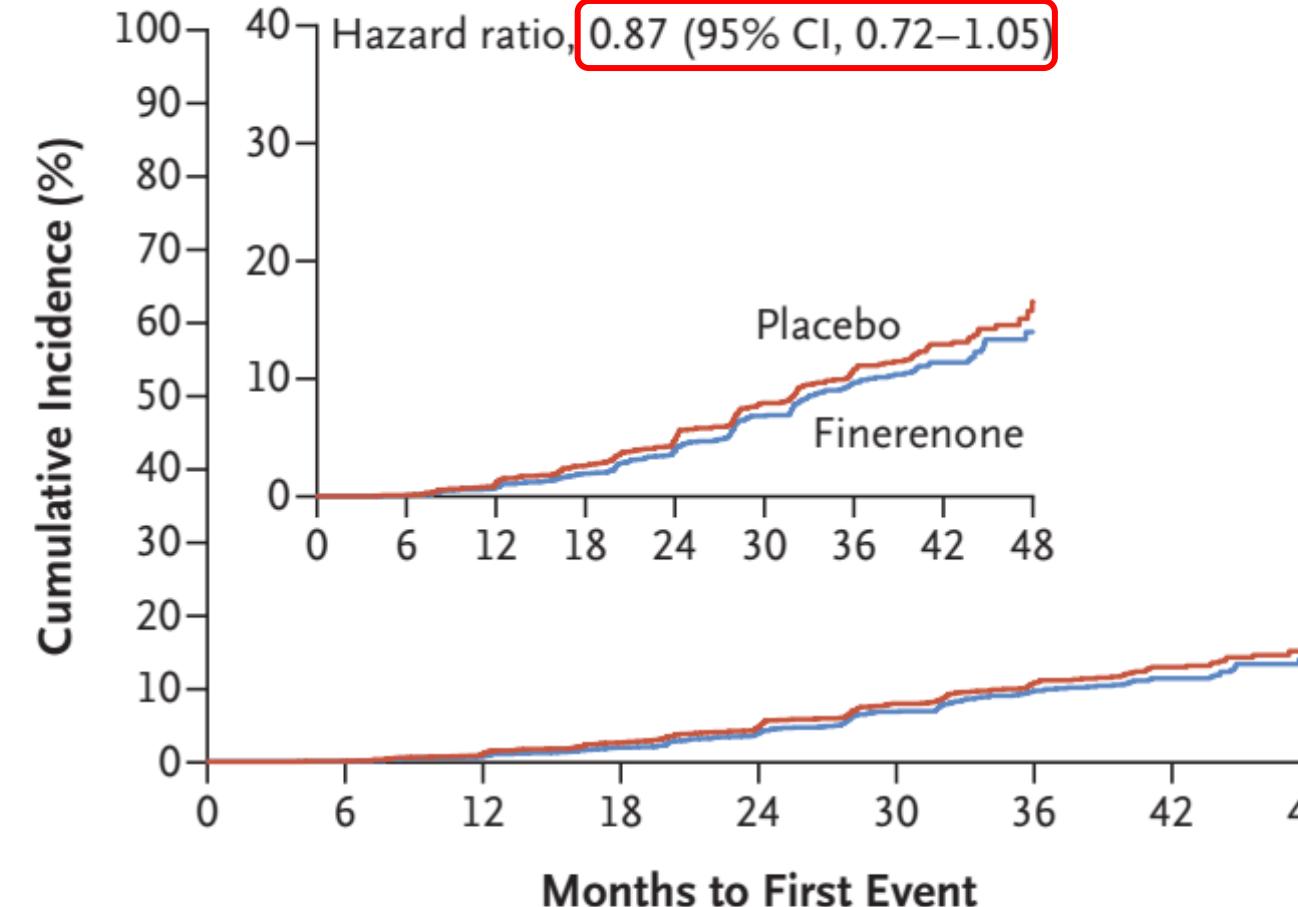
B Sustained Decrease of $\geq 40\%$ in the eGFR from Baseline



No. at Risk

Placebo	2841	2722	2588	2379	1758	1249	793	453	82
Finerenone	2833	2703	2606	2396	1808	1275	788	442	83

C Kidney Failure

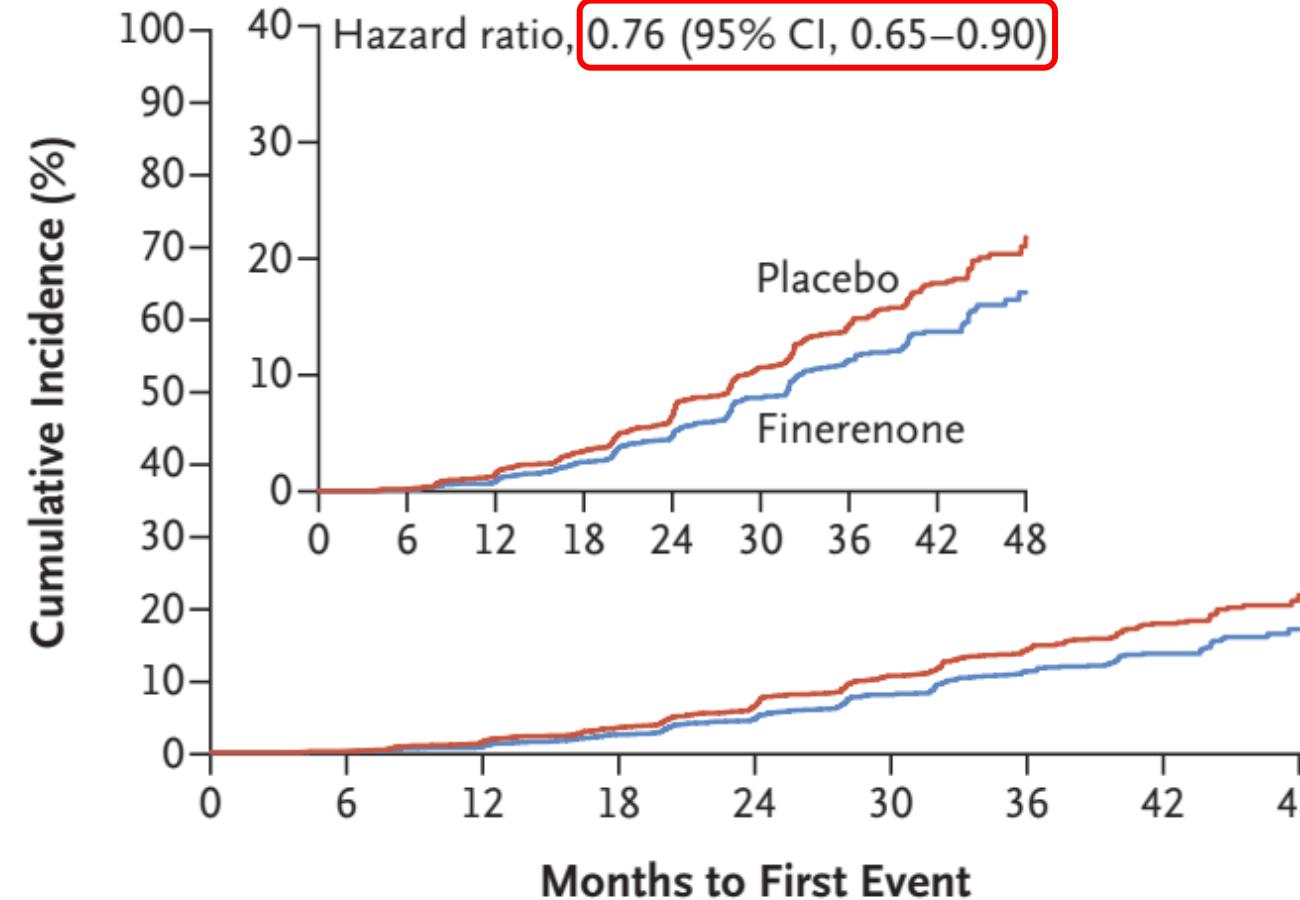


No. at Risk

Placebo	2841	2741	2645	2508	1911	1390	892	513	103
Finerenone	2833	2733	2658	2506	1932	1393	897	510	104

Panel D shows the secondary composite kidney outcome of kidney failure, a sustained decrease of at least 57% in the eGFR from baseline (equivalent to a doubling of the serum creatinine level) maintained for at least 4 weeks, or death from renal causes.

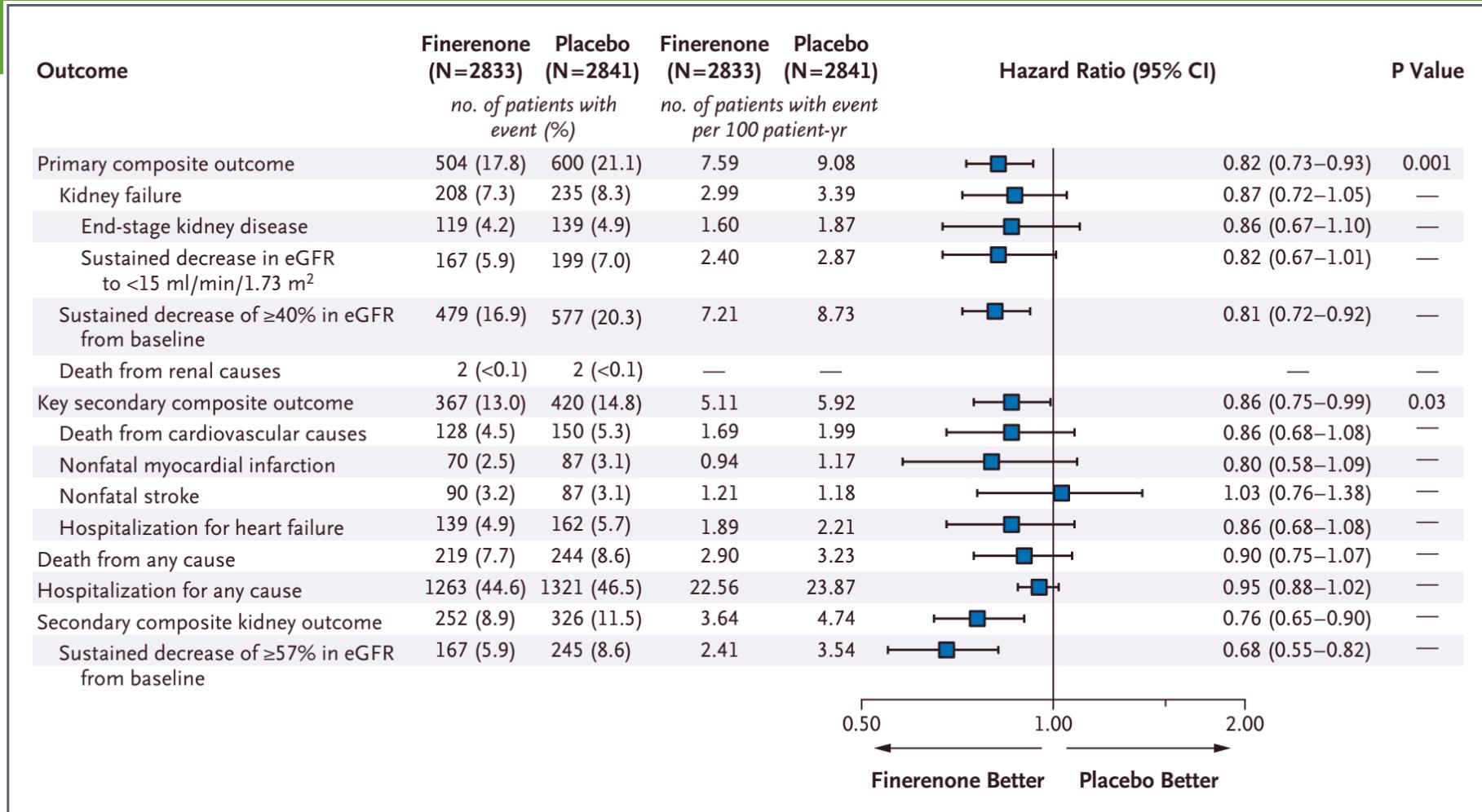
D Secondary Composite Outcome



No. at Risk

Placebo	2841	2740	2636	2490	1887	1364	873	499	98
Finerenone	2833	2732	2655	2492	1915	1377	883	501	101

Shown are the hierarchical prespecified efficacy outcomes of the trial, including the components of the composite outcomes. Outcomes were assessed in time-to-event analyses. The key secondary outcome was a composite of death from cardiovascular causes, nonfatal myocardial infarction, nonfatal stroke, or hospitalization for heart failure.



Primary composite outcome

Kidney failure

End-stage kidney disease

Sustained decrease in eGFR
to $<15 \text{ ml/min/1.73 m}^2$

Sustained decrease of $\geq 40\%$ in eGFR
from baseline

Death from renal causes

Key secondary composite outcome

Death from cardiovascular causes

Nonfatal myocardial infarction

Nonfatal stroke

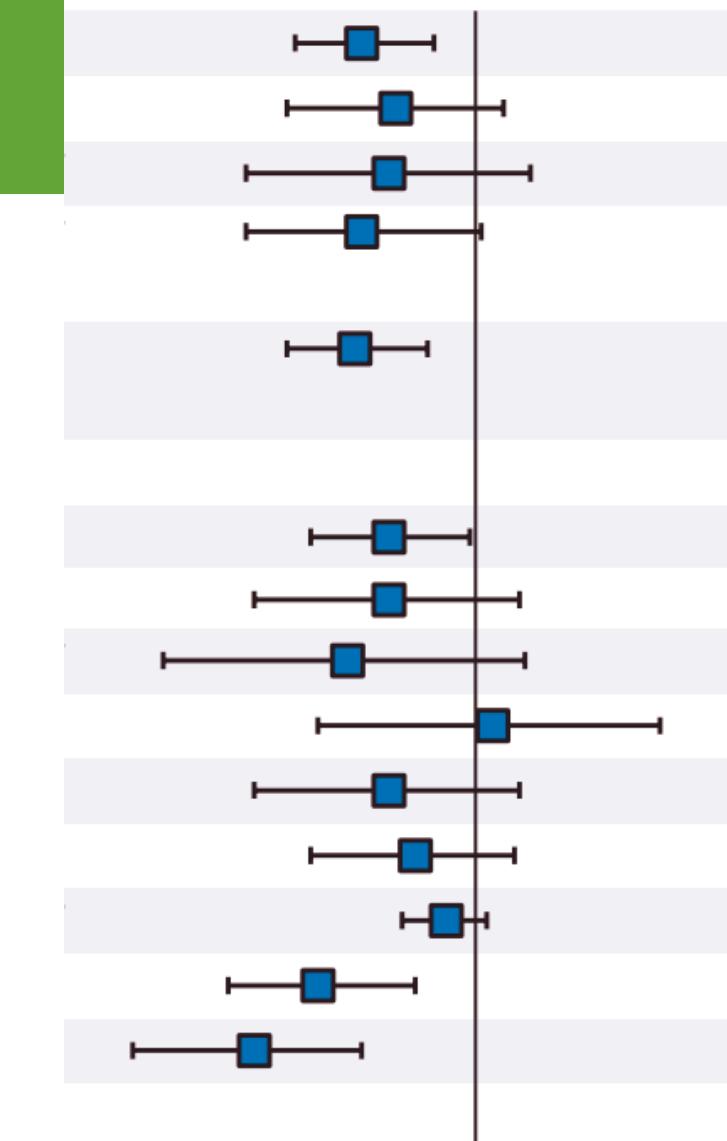
Hospitalization for heart failure

Death from any cause

Hospitalization for any cause

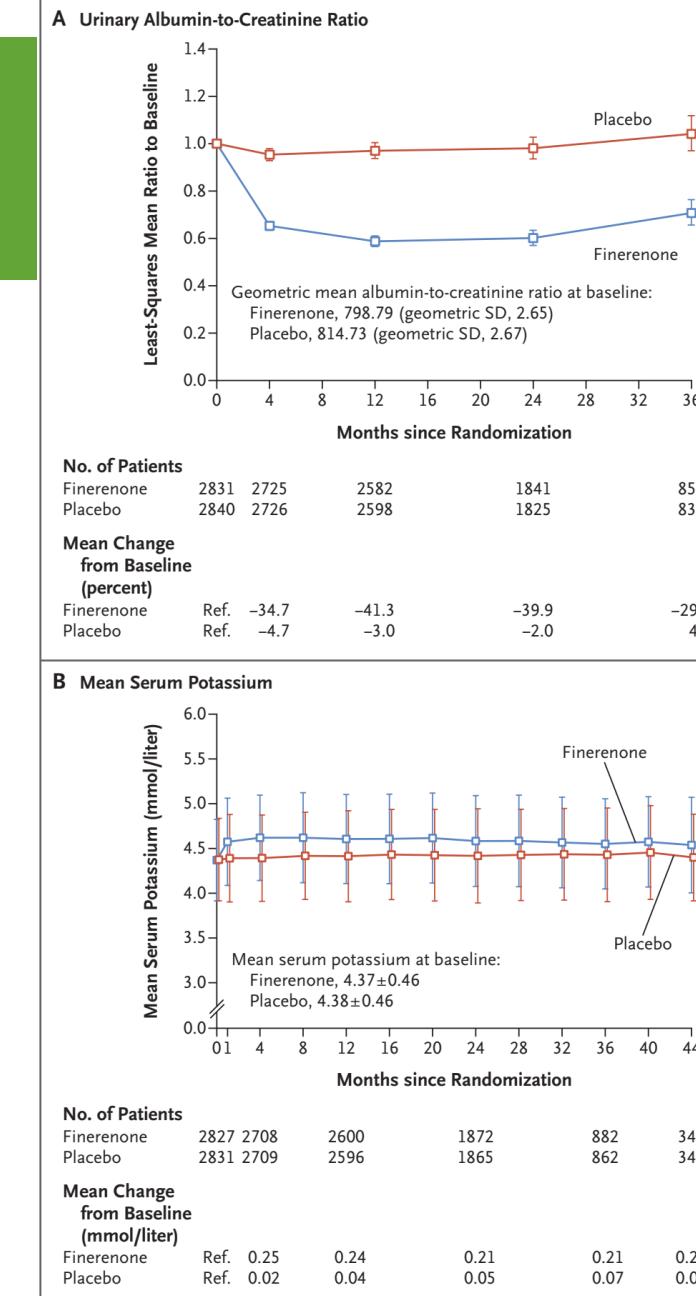
Secondary composite kidney outcome

Sustained decrease of $\geq 57\%$ in eGFR
from baseline

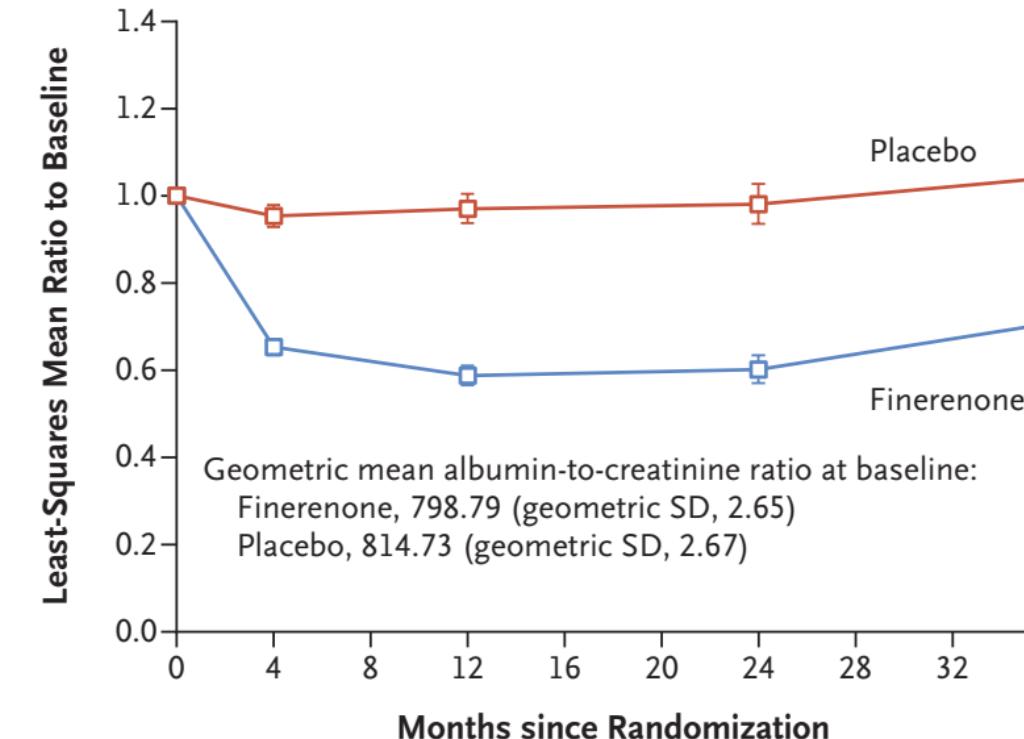


Effects on Albuminuria and Serum Potassium over Time

Potassium over Time. Panel A shows the effects of finerenone and placebo on the urinary albumin-to-creatinine ratio in the full analysis set. The urinary albumin-to-creatinine ratio was calculated with albumin measured in milligrams and creatinine measured in grams. Shown is the ratio of the urinary albumin-to-creatinine ratio at specific time points to the urinary albumin-to-creatinine ratio at baseline. Panel B shows the effects of finerenone and placebo on serum potassium levels in the safety analysis set. Plus-minus values are means \pm SD. The I bars indicate 95% confidence intervals.



A Urinary Albumin-to-Creatinine Ratio



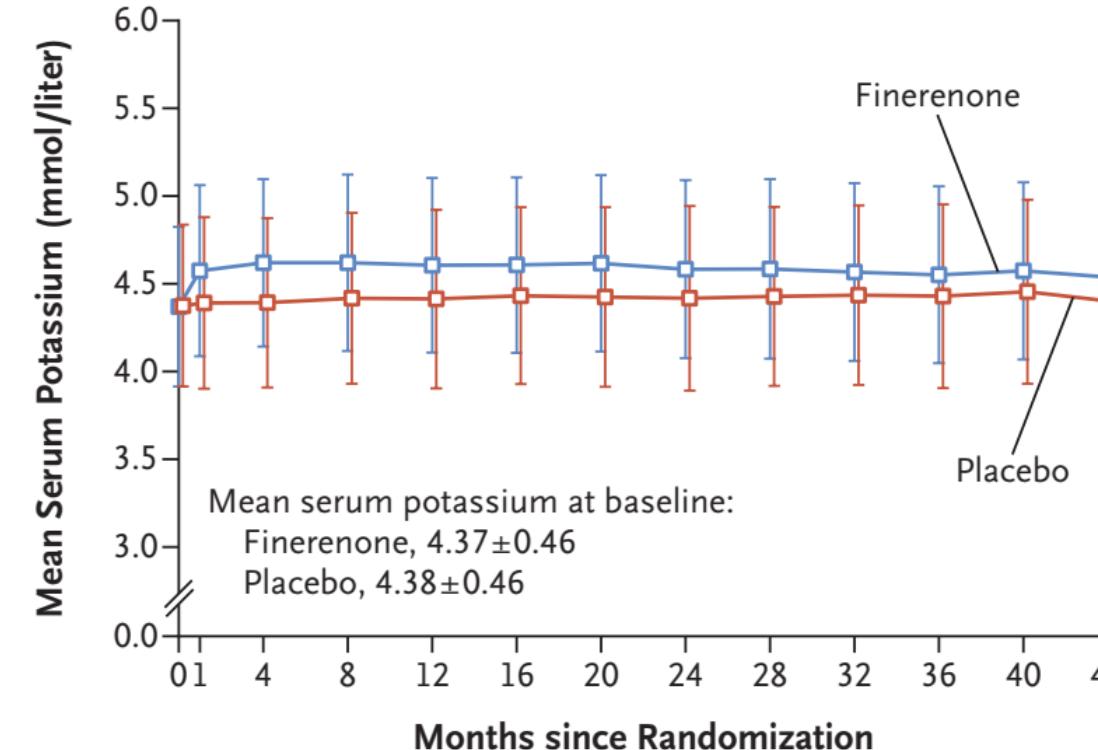
No. of Patients

Finerenone	2831	2725	2582	1841	856
Placebo	2840	2726	2598	1825	834

Mean Change from Baseline (percent)

Finerenone	Ref.	-34.7	-41.3	-39.9	-29.3
Placebo	Ref.	-4.7	-3.0	-2.0	4.1

B Mean Serum Potassium



No. of Patients

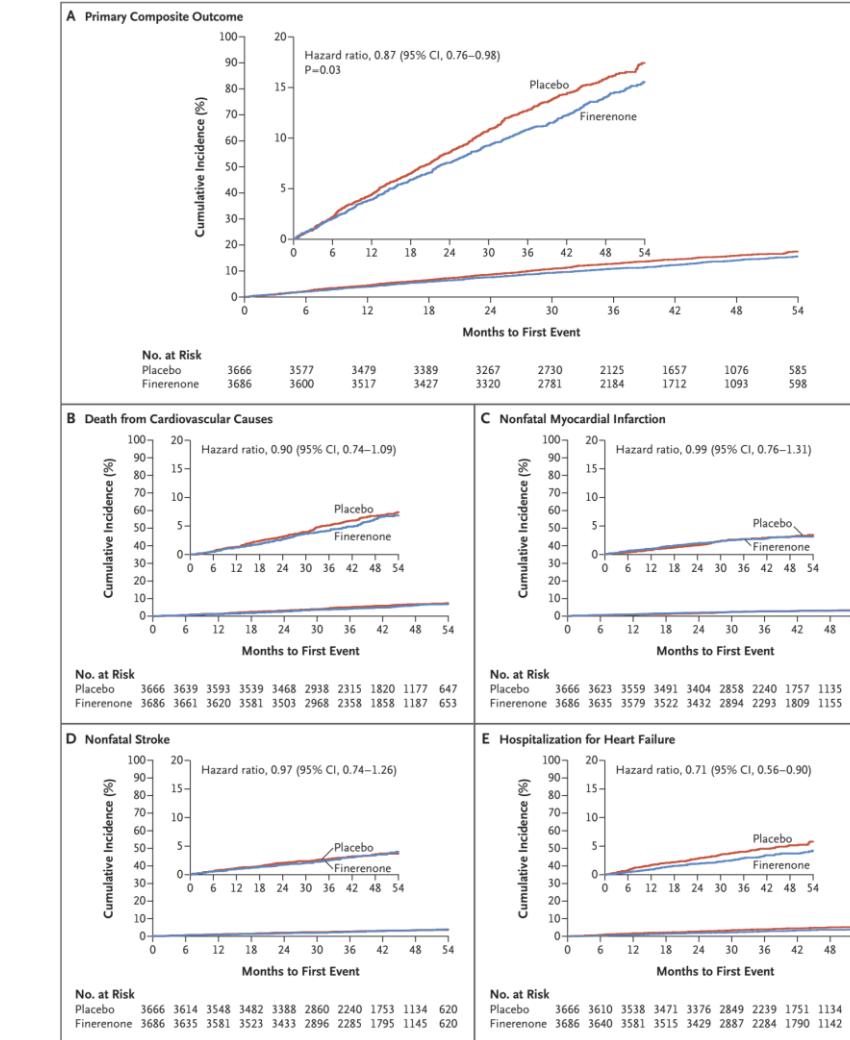
Finerenone	2827	2708	2600	1872	882	344
Placebo	2831	2709	2596	1865	862	348

Mean Change from Baseline (mmol/liter)

Finerenone	Ref.	0.25	0.24	0.21	0.21	0.20
Placebo	Ref.	0.02	0.04	0.05	0.07	0.07

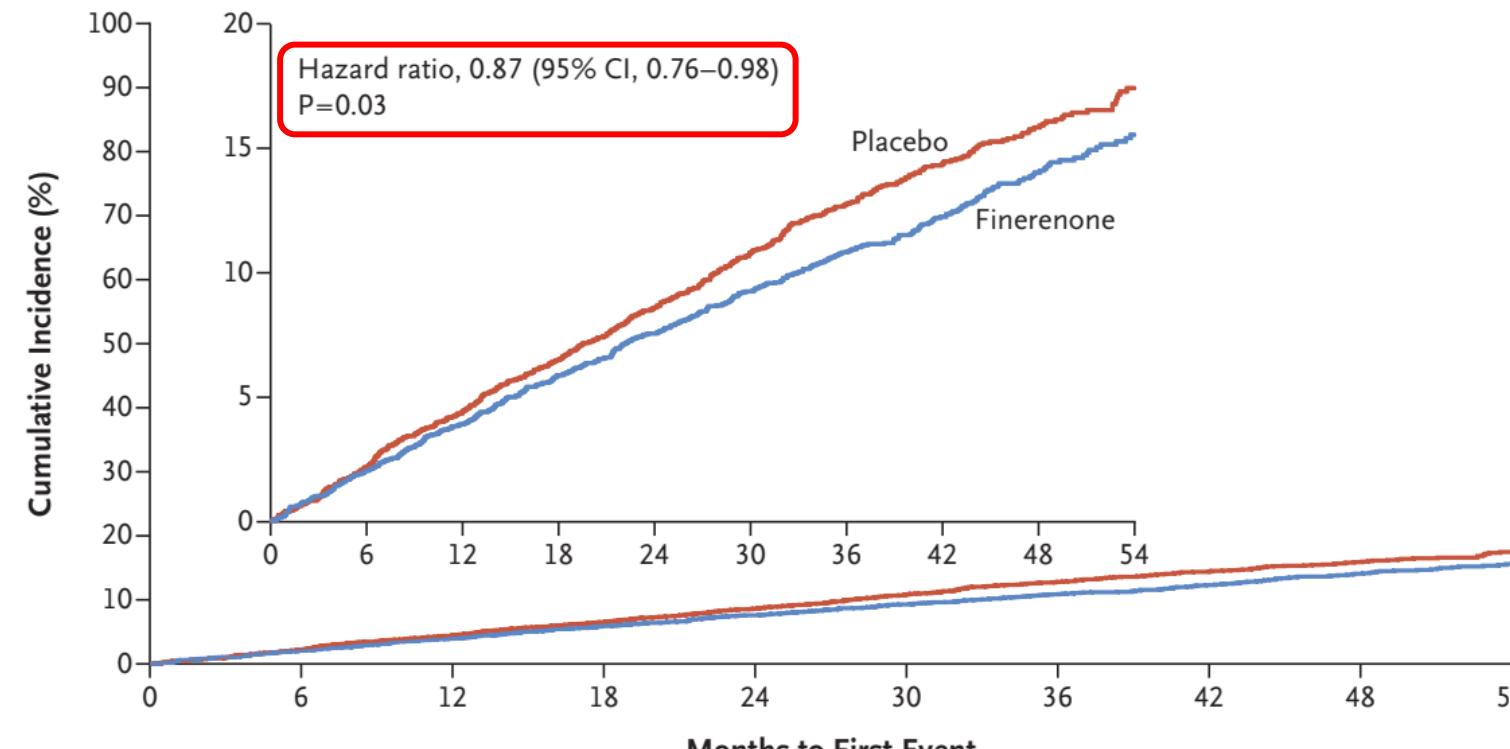
FIGARO DKD

Cardiovascular Outcomes.
Outcomes were assessed in time-to-event analyses.
The primary outcome was a composite of death from cardiovascular causes, nonfatal myocardial infarction, nonfatal stroke, or hospitalization for heart failure. Insets show the same data on an enlarged y axis.



FIGARO DKD

A Primary Composite Outcome

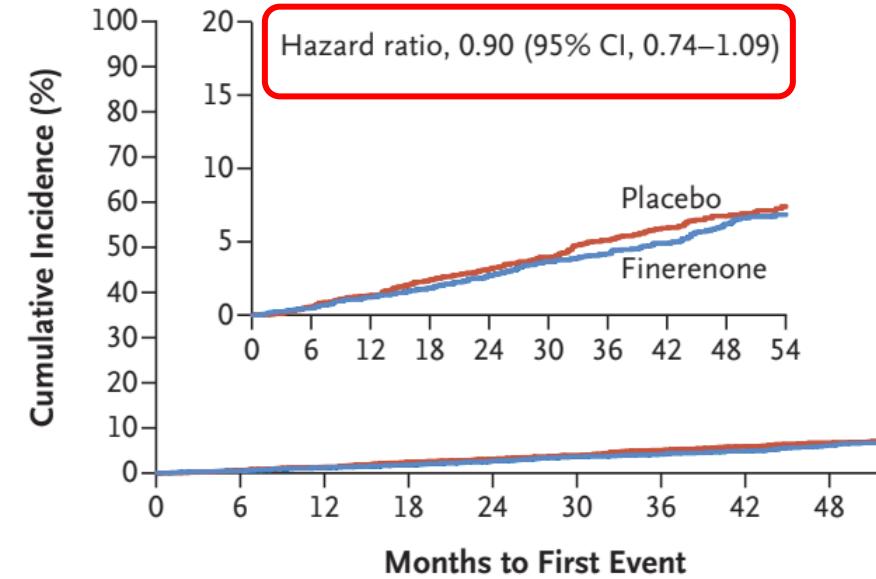


No. at Risk

Placebo	3666	3577	3479	3389	3267	2730	2125	1657	1076	585
Finerenone	3686	3600	3517	3427	3320	2781	2184	1712	1093	598

FIGARO DKD

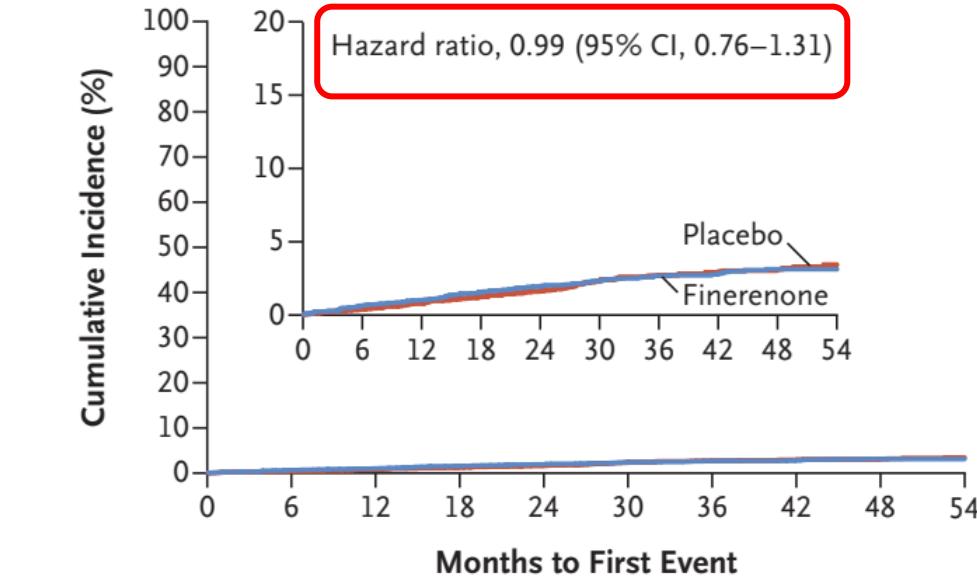
B Death from Cardiovascular Causes



No. at Risk

Placebo	3666	3639	3593	3539	3468	2938	2315	1820	1177	647
Finerenone	3686	3661	3620	3581	3503	2968	2358	1858	1187	653

C Nonfatal Myocardial Infarction

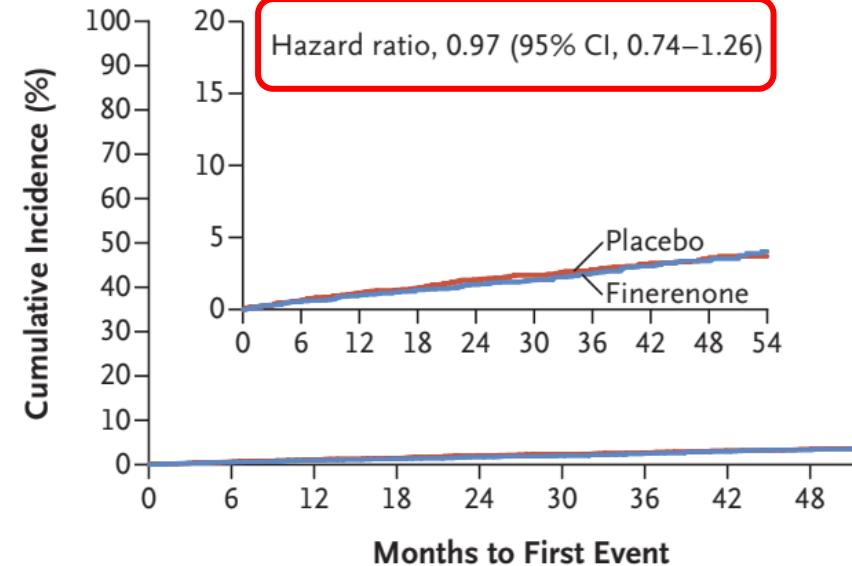


No. at Risk

Placebo	3666	3623	3559	3491	3404	2858	2240	1757	1135	620
Finerenone	3686	3635	3579	3522	3432	2894	2293	1809	1155	632

FIGARO DKD

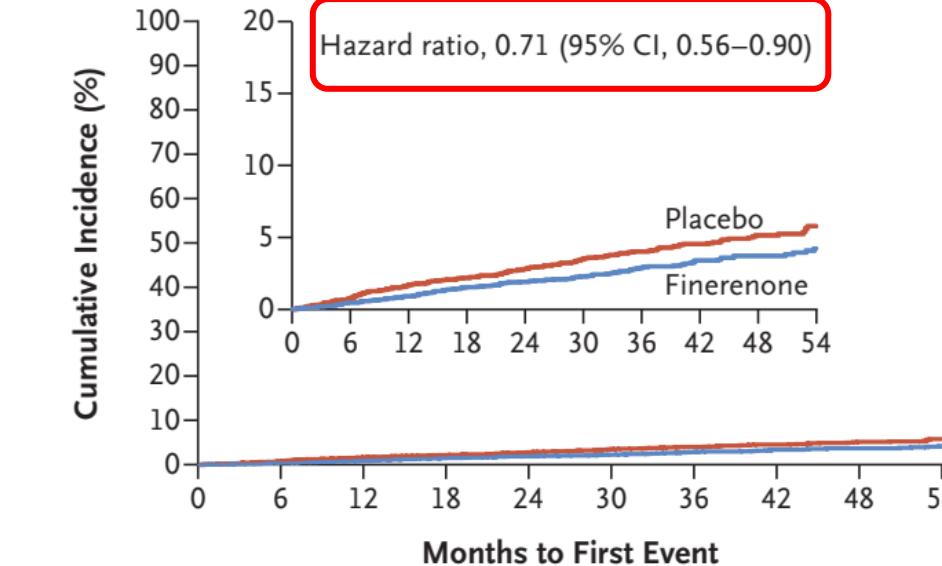
D Nonfatal Stroke



No. at Risk

Placebo	3666	3614	3548	3482	3388	2860	2240	1753	1134	620
Finerenone	3686	3635	3581	3523	3433	2896	2285	1795	1145	620

E Hospitalization for Heart Failure

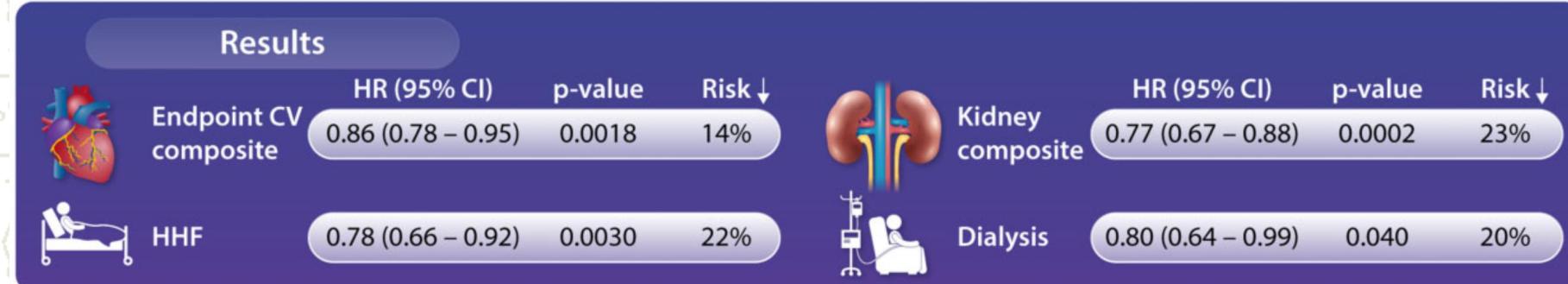
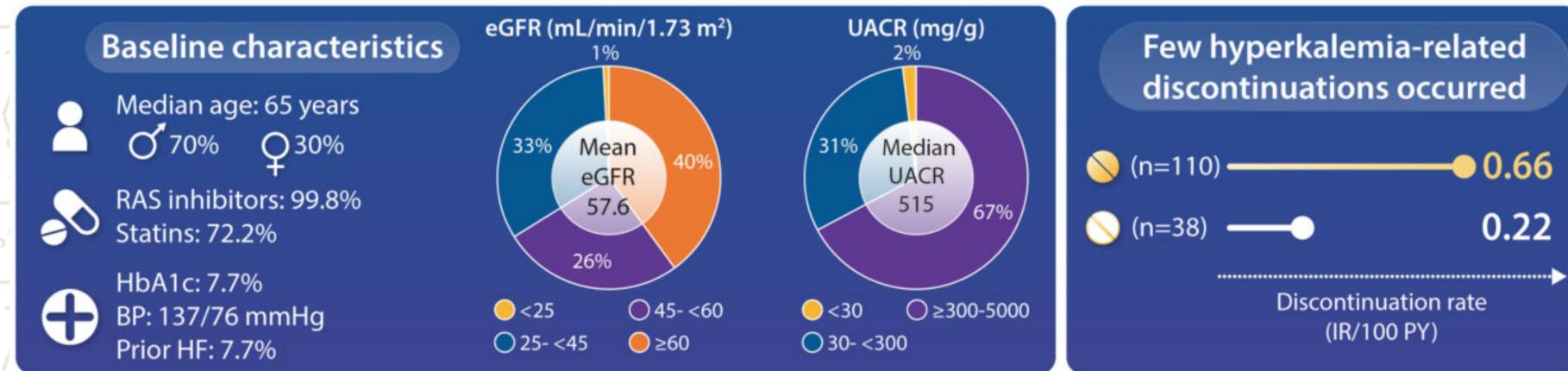
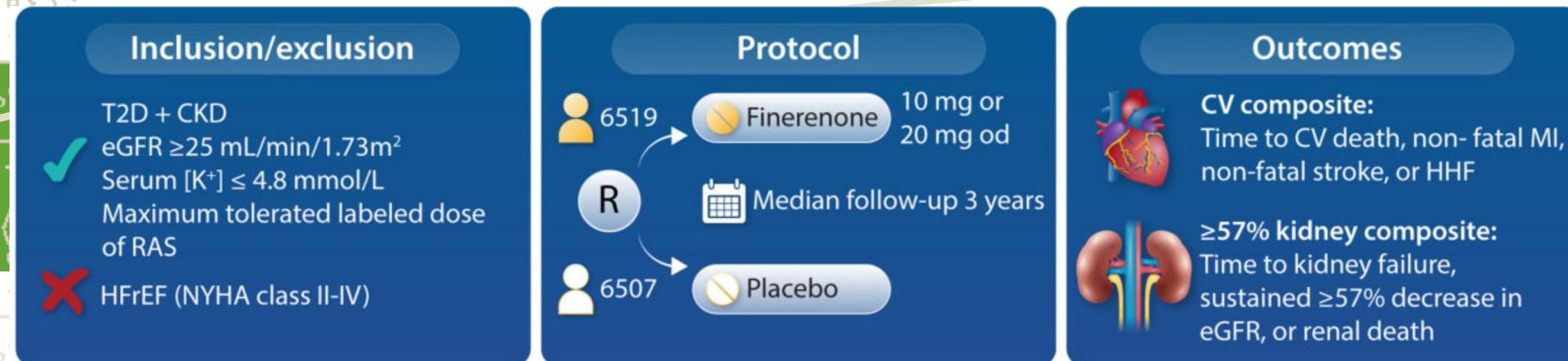


No. at Risk

Placebo	3666	3610	3538	3471	3376	2849	2239	1751	1134	619
Finerenone	3686	3640	3581	3515	3429	2887	2284	1790	1142	629

FIDELITY pooled analysis

- The FIDELIO-DKD trial was designed to detect a treatment effect of finerenone on kidney failure endpoints, whereas the FIGARO-DKD trial aimed to detect an effect on a cardiovascular composite primary endpoint.
The FInerenone in chronic kiDney diseasE and type 2 diabetes: Combined FIDELIO-DKD and FIGARO-DKD Trial programme analYsis (FIDELITY) pools these complementary studies with similar designs, assessments, and conduct.
- The aim of the FIDELITY prespecified pooled analysis was to provide more robust estimates of finerenone efficacy and safety across the spectrum of patients with CKD and type 2 diabetes, to provide reassurance regarding outcomes in a wide range of patients with a degree of precision that was not possible to obtain by considering the two trials separately.



Conclusion

Finerenone on top of standard of care reduces the risk of clinically meaningful cardiovascular and kidney outcomes in patients with type 2 diabetes over a broad spectrum of chronic kidney disease

Inclusion/exclusion

- ✓ T2D + CKD
eGFR ≥ 25 mL/min/1.73m²
- ✓ Serum [K⁺] ≤ 4.8 mmol/L
- ✓ Maximum tolerated labeled dose of RAS
- ✗ HFrEF (NYHA class II-IV)

Protocol



Outcomes

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

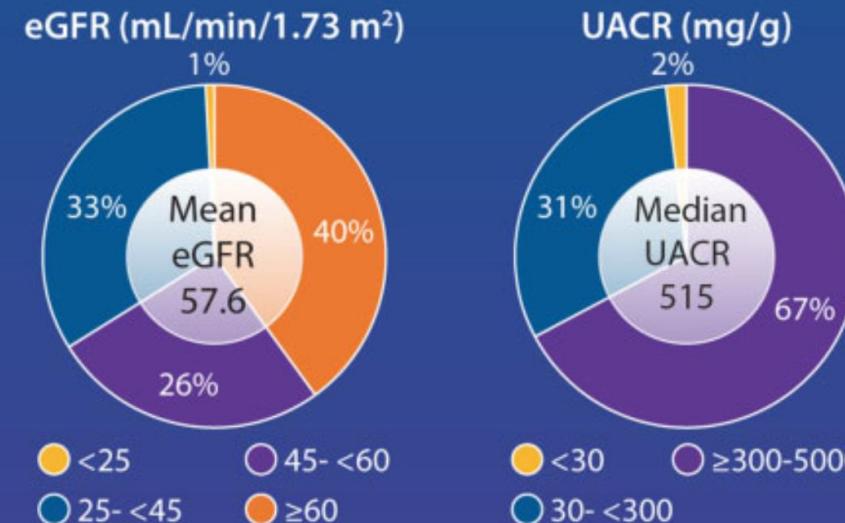


≥57% kidney composite:
Time to kidney failure, sustained $\geq 57\%$ decrease in eGFR, or renal death



Baseline characteristics

- Median age: 65 years
♂ 70% ♀ 30%
- RAS inhibitors: 99.8%
- Statins: 72.2%
- HbA1c: 7.7%
- BP: 137/76 mmHg
- Prior HF: 7.7%



Few hyperkalemia-related discontinuations occurred



Discontinuation rate
(IR/100 PY)

Results



Endpoint CV

HR (95% CI)

p-value

Risk ↓

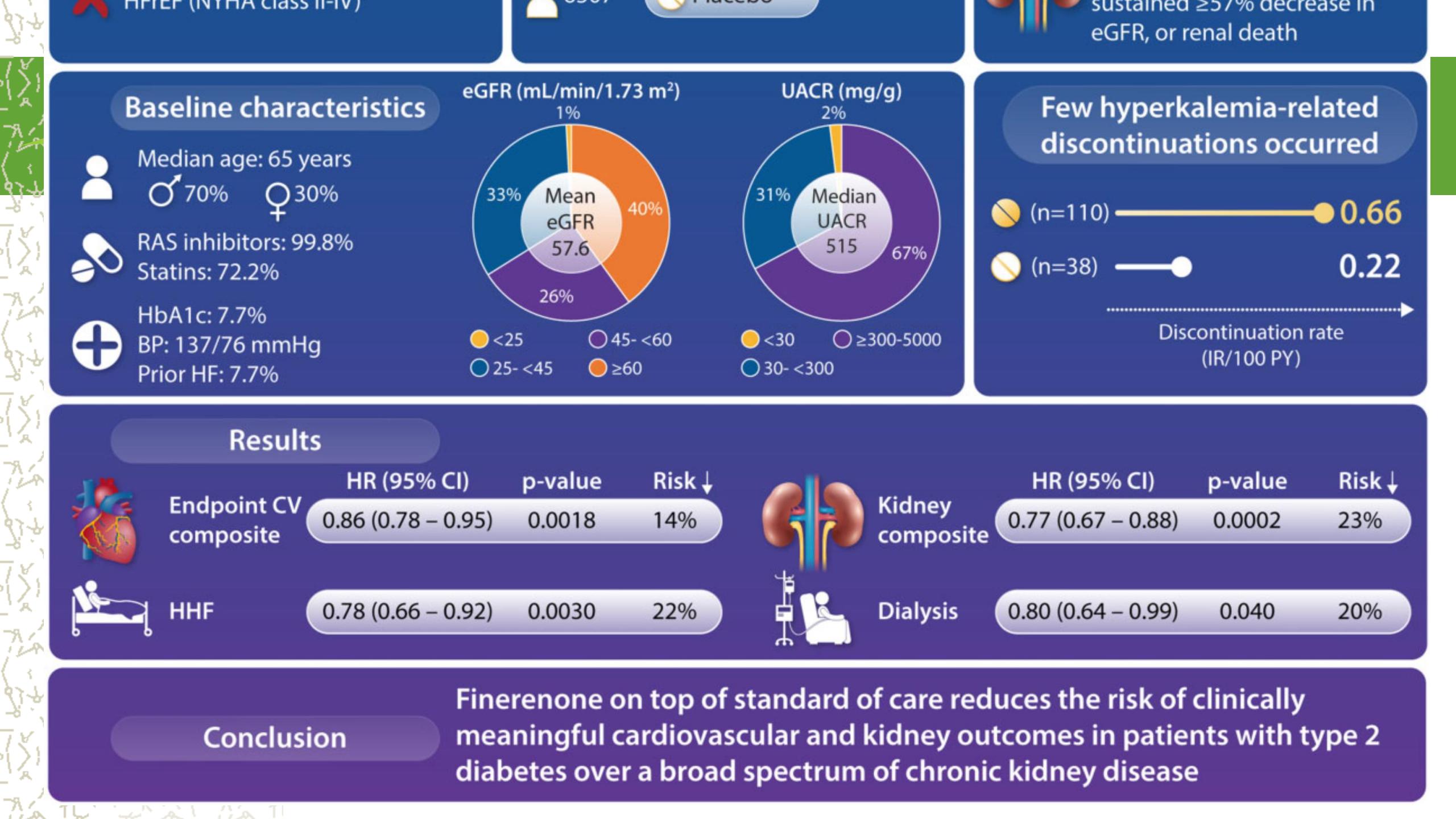


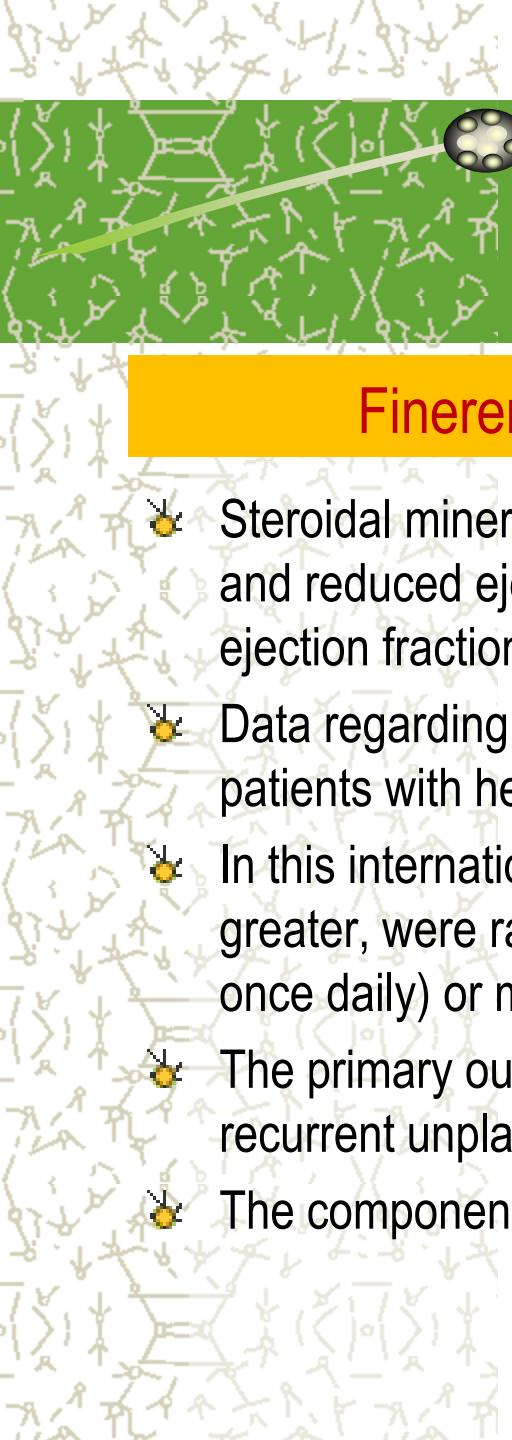
Kidney

HR (95% CI)

p-value

Risk ↓





FINEARTS HF

Finerenone in Heart Failure with Mildly Reduced or Preserved Ejection Fraction

- Steroidal mineralocorticoid receptor antagonists reduce morbidity and mortality among patients with heart failure and reduced ejection fraction, but their efficacy in those with heart failure and mildly reduced or preserved ejection fraction has not been established.
- Data regarding the efficacy and safety of the nonsteroidal mineralocorticoid receptor antagonist finerenone in patients with heart failure and mildly reduced or preserved ejection fraction are needed.
- In this international, double-blind trial, patients with heart failure and a left ventricular ejection fraction of 40% or greater, were randomly assigned in a 1:1 ratio, to receive finerenone (at a maximum dose of 20 mg or 40 mg once daily) or matching placebo, in addition to usual therapy.
- The primary outcome was a composite of total worsening heart failure events (with an event defined as a first or recurrent unplanned hospitalization or urgent visit for heart failure) and death from cardiovascular causes.
- The components of the primary outcome and safety were also assessed.

FINEARTS HF

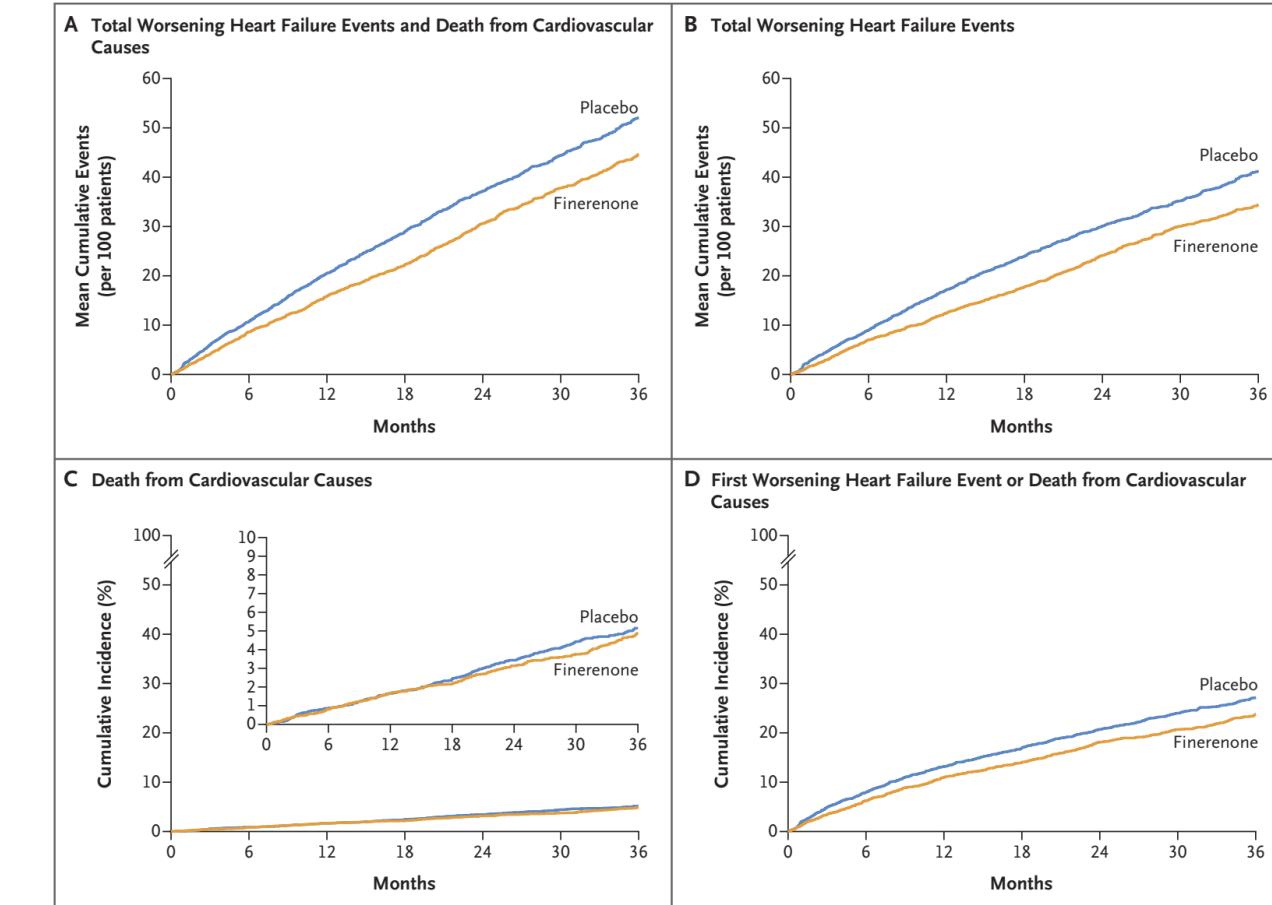
Primary Outcome and Its Components.

Panel A shows the cumulative-incidence plot for the composite of total worsening heart failure events and death from cardiovascular causes (the primary outcome).

Panel B shows the cumulative-incidence plot for total worsening heart failure events.

Panel C shows the Kaplan–Meier plot for death from cardiovascular causes. The inset shows the same data on an enlarged y axis.

Panel D shows the Kaplan–Meier plot for the composite of the first worsening heart failure event or death from cardiovascular causes.



FINEARTS HF

Primary Outcome and Its Components.

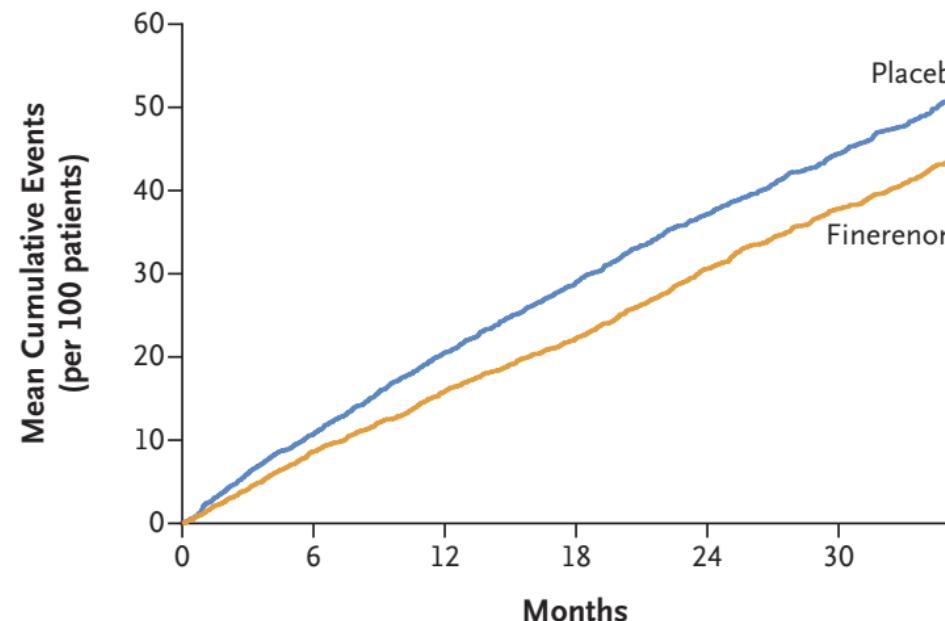
Panel A shows the cumulative-incidence plot for the composite of total worsening heart failure events and death from cardiovascular causes (the primary outcome).

Panel B shows the cumulative-incidence plot for total worsening heart failure events.

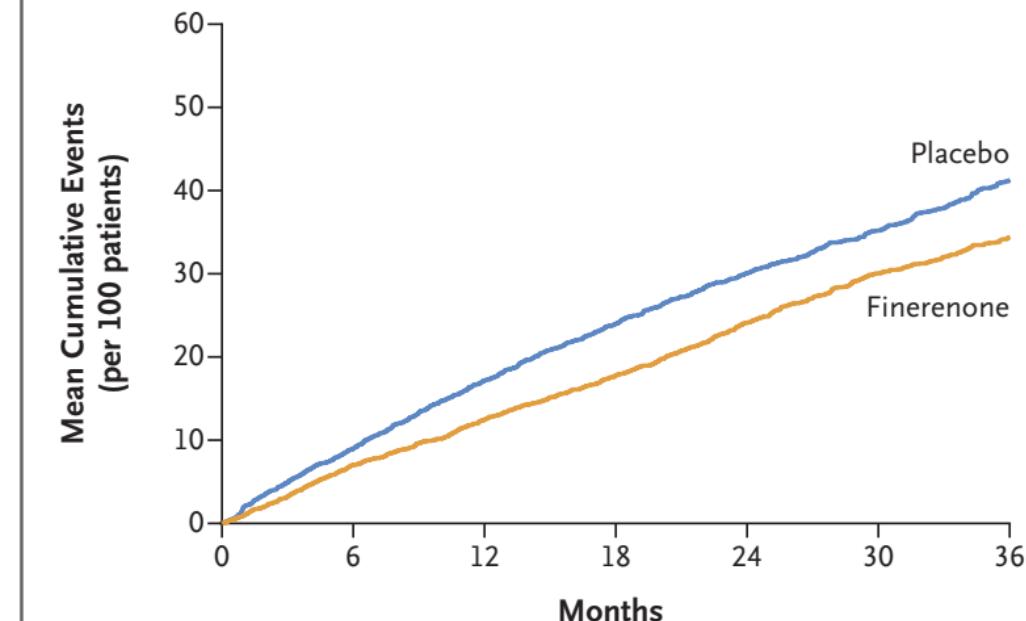
Panel C shows the Kaplan-Meier plot for death from cardiovascular causes. The inset shows the same data on an enlarged y axis.

Panel D shows the Kaplan-Meier plot for the composite of the first worsening heart failure event or death from cardiovascular causes.

A Total Worsening Heart Failure Events and Death from Cardiovascular Causes



B Total Worsening Heart Failure Events



FINEARTS HF

Primary Outcome and Its Components.

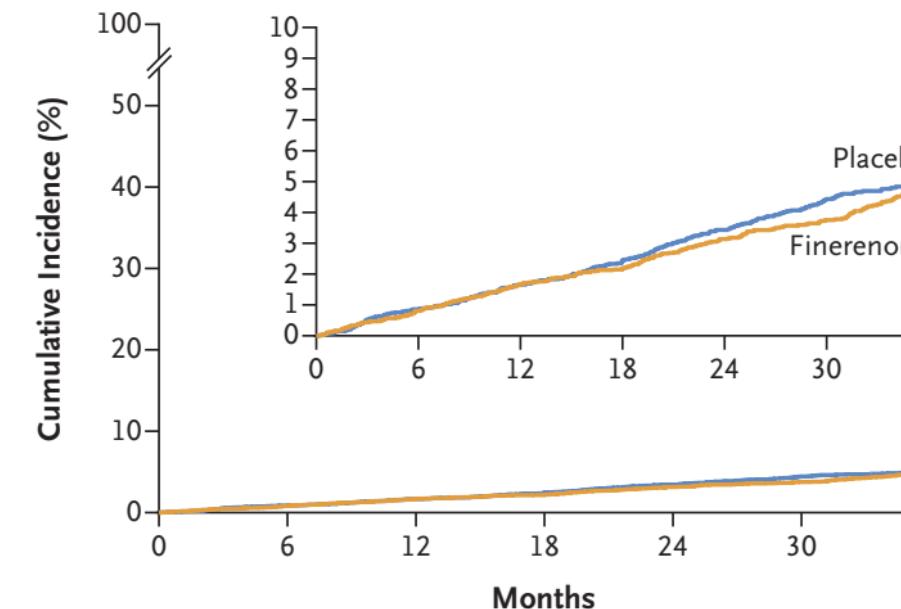
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Panel B shows the cumulative-incidence plot for total worsening heart failure events.

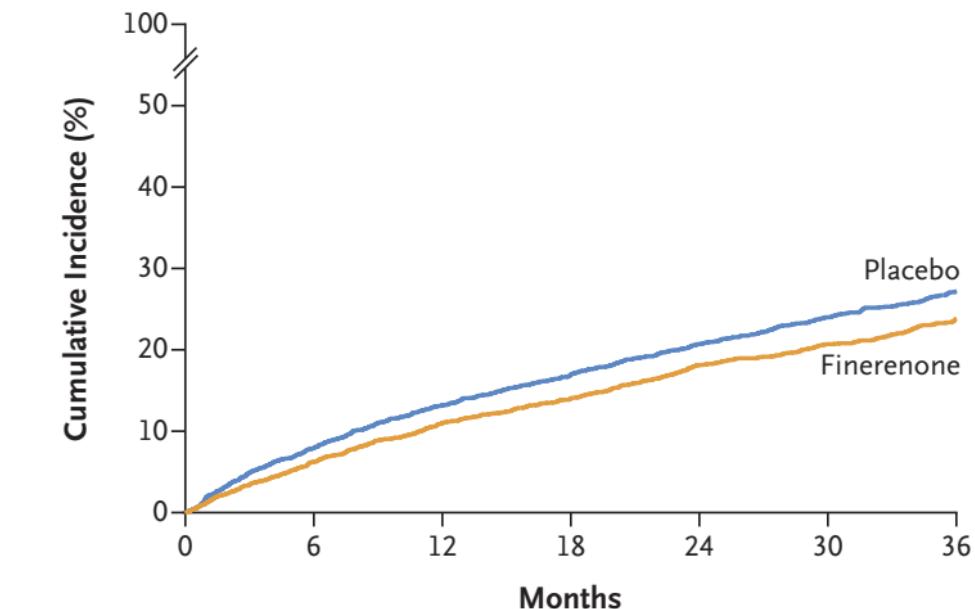
Panel C shows the Kaplan-Meier plot for death from cardiovascular causes. The inset shows the same data on an enlarged y axis.

Panel D shows the Kaplan-Meier plot for the composite of the first worsening heart failure event or death from cardiovascular causes.

C Death from Cardiovascular Causes



D First Worsening Heart Failure Event or Death from Cardiovascular Causes



FINEARTS HF

Primary and Secondary Outcomes.

Table 2. Primary and Secondary Outcomes.*

Outcome	Finerenone (N=3003)	Placebo (N=2998)	Finerenone vs. Placebo
Primary outcome and components			
Total worsening heart failure events and death from cardiovascular causes			
Total no. of events†	1083	1283	—
Events per 100 patient-yr	14.9	17.7	—
Rate ratio (95% CI)	—	—	0.84 (0.74–0.95)
P value	—	—	0.007
Total worsening heart failure events			
Total no. of events	842	1024	—
Rate ratio (95% CI)	—	—	0.82 (0.71–0.94)
P value	—	—	0.006
Death from cardiovascular causes			
No. of patients (%)	242 (8.1)	260 (8.7)	—

Rate ratio (95% CI)	—	—	0.82 (0.71–0.94)
P value	—	—	0.006
Death from cardiovascular causes			
No. of patients (%)	242 (8.1)	260 (8.7)	—
Hazard ratio (95% CI)	—	—	0.93 (0.78–1.11)
Secondary outcomes			
Change from baseline in KCCQ total symptom score at 6, 9, and 12 mo‡			
Estimate across 6, 9, and 12 mo	8.0±0.3	6.4±0.3	—
Difference (95% CI)	—	—	1.6 (0.8–2.3)
P value	—	—	<0.001
Improvement in NYHA functional class at 12 mo			
No. of patients/total no. (%)	557/3002 (18.6)	553/2998 (18.4)	—
Odds ratio (95% CI)	—	—	1.01 (0.88–1.15)
Kidney composite outcome§			
No. of patients (%)	75 (2.5)	55 (1.8)	—
Hazard ratio (95% CI)	—	—	1.33 (0.94–1.89)
Death from any cause			
No. of patients (%)	491 (16.4)	522 (17.4)	—
Hazard ratio (95% CI)	—	—	0.93 (0.83–1.06)
First worsening heart failure event or death from cardiovascular causes			
No. of patients (%)	624 (20.8)	719 (24.0)	—
Hazard ratio (95% CI)	—	—	0.84 (0.76–0.94)

Dosage Guidelines (Patients with Diabetes + CKD)

- 💡 Indication: Adults with Type 2 diabetes mellitus and chronic kidney disease (with albuminuria), already on maximally tolerated ACE inhibitor or ARB.
- 💡 Administration, Oral, once daily, With or without food, Tablets should not be crushed or split

Baseline eGFR (mL/min/1.73 m ²)	Starting Dose	Target / Max Dose
≥ 60	20 mg once daily	20 mg once daily
25 to < 60	10 mg once daily	Increase to 20 mg once daily if K ⁺ allows
< 25	✗ Not recommended	—

Serum Potassium (mmol/L)	Action
≤ 4.8	Initiate or up-titrate
> 4.8 to ≤ 5.5	Maintain current dose
> 5.5	Withhold finerenone
≤ 5.0 after withholding	Restart at 10 mg once daily

Potassium-Based Dose Adjustment

Baseline eGFR (mL/min/1.73 m ²)	Starting Dose	Target / Max Dose
≥ 60	20 mg once daily	20 mg once daily
25 to < 60	10 mg once daily	Increase to 20 mg once daily if K ⁺ allows
< 25	✗ Not recommended	—

Serum Potassium (mmol/L)	Action
≤ 4.8	Initiate or up-titrate
> 4.8 to ≤ 5.5	Maintain current dose
> 5.5	Withhold finerenone
≤ 5.0 after withholding	Restart at 10 mg once daily

Monitoring Recommendations (Diabetic Patients)

• Baseline (Before Initiation)

- Serum potassium
- eGFR / serum creatinine
- Urine albumin-to-creatinine ratio (UACR)
- Confirm patient is on ACEi or ARB (unless contraindicated)

• After Initiation

- Serum potassium & eGFR:
 - At 4 weeks
 - After any dose change
 - Periodically thereafter (every 3–4 months in stable patients)

• High-Risk Patients (require closer monitoring)

- eGFR $< 45 \text{ mL/min/1.73 m}^2$
- Baseline potassium $> 4.8 \text{ mmol/L}$
- Elderly patients
- Concomitant potassium-raising drugs

Contraindications (Critical for Diabetic Patients)

Absolute Contraindications

Condition	Reason
Serum potassium > 5.0 mmol/L at initiation	High risk of life-threatening hyperkalemia
eGFR < 25 mL/min/1.73 m²	Insufficient safety data; increased risk
Concomitant use of strong CYP3A4 inhibitors (e.g., ketoconazole, itraconazole, clarithromycin, ritonavir)	Markedly increases finerenone levels
Adrenal insufficiency	Risk of worsening mineralocorticoid deficiency

Contraindications (Critical for Diabetic Patients)

Relative Contraindications / Use With Caution

- ✿ History of recurrent hyperkalemia
- ✿ Concomitant potassium supplements
- ✿ Potassium-sparing diuretics (e.g., amiloride, triamterene)
- ✿ Advanced heart failure with unstable renal function
- ✿ Severe hepatic impairment (Child-Pugh C)

Drug Interactions Relevant to Diabetes Care

Drug Class	Recommendation
ACE inhibitors / ARBs	<input checked="" type="checkbox"/> Required background therapy
SGLT2 inhibitors	<input checked="" type="checkbox"/> Safe and additive cardiorenal benefit
GLP-1 receptor agonists	<input checked="" type="checkbox"/> No significant interaction
NSAIDs (chronic use)	 Increased risk of renal dysfunction
Potassium supplements	 Avoid unless absolutely necessary

Adverse Effects (Diabetic Population)

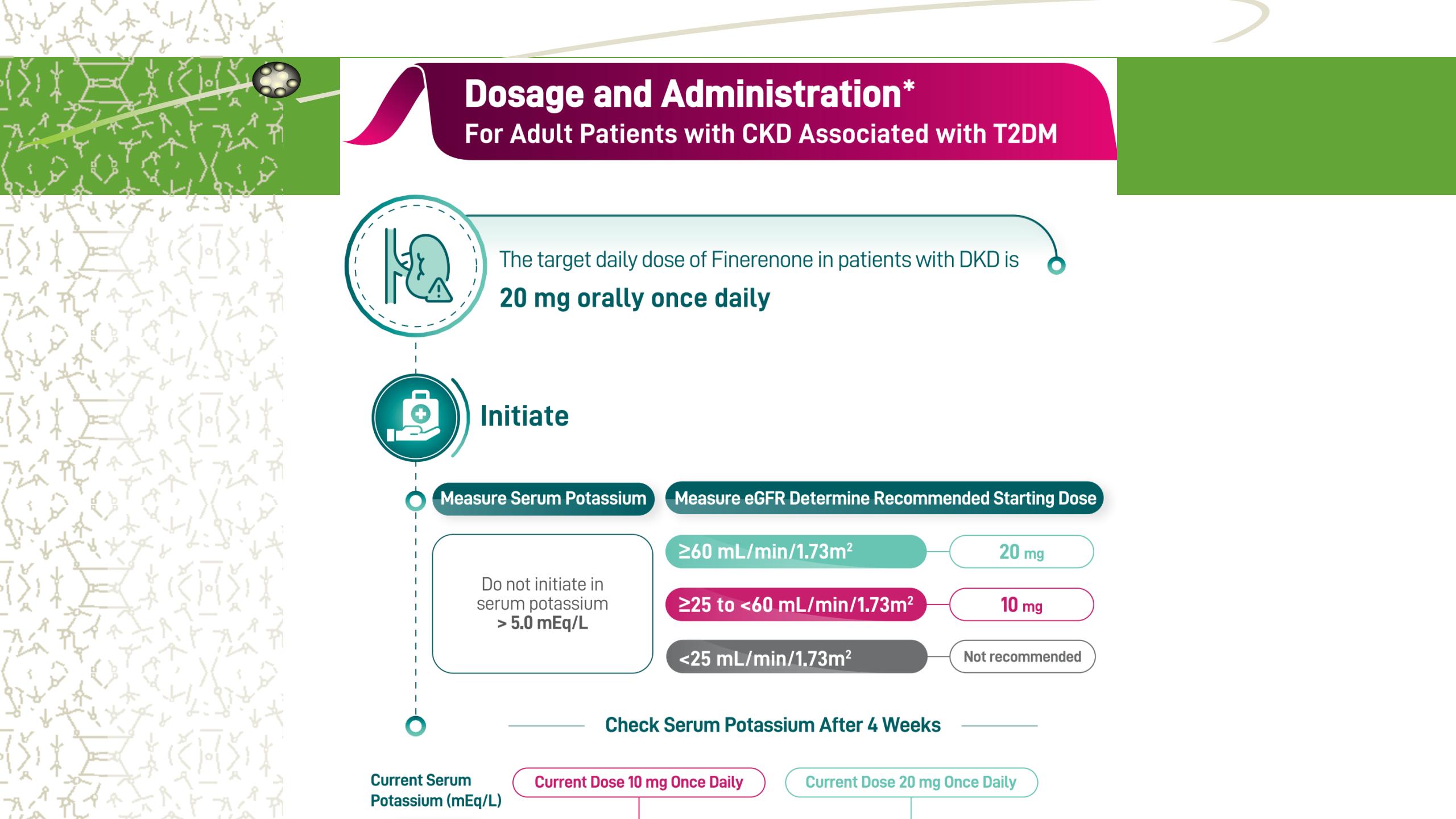
- Hyperkalemia (most common, dose-dependent)
- Mild decline in eGFR early (usually stabilizes)
- Hypotension (uncommon)
- No significant effects on:
 - HbA1c
 - Body weight
 - Lipids

Comparison: Finerenone vs Spironolactone vs Eplerenone

As a clinical decision point, when we should prescribe Spironolactone, Eplerenone or Finerenone?

Feature	Finerenone	Spironolactone	Eplerenone
Class	Non-steroidal mineralocorticoid receptor antagonist (MRA)	Steroidal MRA	Steroidal MRA (selective)
FDA-approved indication in diabetes	CKD associated with T2D (renal + CV risk reduction)	✗ None specific to diabetes	✗ None specific to diabetes
Primary clinical role	Cardiorenal protection	Resistant hypertension, HF	HF (HFrEF, post-MI)
Blood pressure reduction	Mild (~2–4 mmHg SBP)	Strong (~10–20 mmHg SBP in resistant HTN)	Moderate
Renal outcomes in diabetes	↓ CKD progression, ↓ albuminuria	No outcome-driven CKD data	No outcome-driven CKD data
Cardiovascular outcomes in diabetes	↓ CV death, ↓ HF hospitalization	HF benefit (non-diabetic trials)	HF benefit (non-diabetic trials)
Effect on albuminuria	Significant, early and sustained	Reduces albuminuria but limited long-term data	Modest
Mechanism emphasis	Anti-inflammatory, anti-fibrotic	Natriuresis + aldosterone blockade	Selective aldosterone blockade
Endocrine side effects	None	Gynecomastia, impotence, menstrual irregularities	Minimal
Hyperkalemia risk	Moderate	High (especially CKD, diabetes)	Moderate
Use in advanced CKD	Approved down to eGFR 25	Limited by hyperkalemia	Limited by hyperkalemia
Dosing frequency	Once daily	Once or twice daily	Once or twice daily
Drug interactions	CYP3A4 inhibitors	Few CYP interactions	CYP3A4 substrates
Effect on glucose metabolism	Neutral	May worsen insulin resistance	Neutral

Feature	Finerenone	Spironolactone	Eplerenone
Class	Non-steroidal mineralocorticoid receptor antagonist (MRA)	Steroidal MRA	Steroidal MRA (selective)
FDA-approved indication in diabetes	CKD associated with T2D (renal + CV risk reduction)	✗ None specific to diabetes	✗ None specific to diabetes
Primary clinical role	Cardiorenal protection	Resistant hypertension, HF	HF (HFrEF, post-MI)
Blood pressure reduction	Mild (\approx 2–4 mmHg SBP)	Strong (\approx 10–20 mmHg SBP in resistant HTN)	Moderate
Renal outcomes in diabetes	\downarrow CKD progression, \downarrow albuminuria	No outcome-driven CKD data	No outcome-driven CKD data
Cardiovascular outcomes in diabetes	\downarrow CV death, \downarrow HF hospitalization	HF benefit (non-diabetic trials)	HF benefit (non-diabetic trials)
Effect on albuminuria	Significant, early and sustained	Reduces albuminuria but limited long-term data	Modest
Mechanism emphasis	Anti-inflammatory, anti-fibrotic	Natriuresis + aldosterone blockade	Selective aldosterone blockade
Endocrine side effects	None	Gynecomastia, impotence, menstrual irregularities	Minimal
Hyperkalemia risk	Moderate	High (especially CKD, diabetes)	Moderate
Use in advanced CKD	Approved down to eGFR 25	Limited by hyperkalemia	Limited by hyperkalemia
Dosing frequency	Once daily	Once or twice daily	Once or twice daily
Drug interactions	CYP3A4 inhibitors	Few CYP interactions	CYP3A4 substrates
Effect on glucose metabolism	Neutral	May worsen insulin resistance	Neutral



Dosage and Administration*

For Adult Patients with CKD Associated with T2DM



The target daily dose of Finerenone in patients with DKD is

20 mg orally once daily



Initiate

Measure Serum Potassium

Measure eGFR Determine Recommended Starting Dose

Do not initiate in
serum potassium
 $> 5.0 \text{ mEq/L}$

$\geq 60 \text{ mL/min/1.73m}^2$

20 mg

$\geq 25 \text{ to } < 60 \text{ mL/min/1.73m}^2$

10 mg

$< 25 \text{ mL/min/1.73m}^2$

Not recommended

Check Serum Potassium After 4 Weeks

Current Serum
Potassium (mEq/L)

Current Dose 10 mg Once Daily

Current Dose 20 mg Once Daily

The target daily dose of Finerenone in patients with DKD is

20 mg orally once daily



Initiate

Measure Serum Potassium

Do not initiate in serum potassium $> 5.0 \text{ mEq/L}$

Measure eGFR Determine Recommended Starting Dose

$\geq 60 \text{ mL/min/1.73m}^2$

20 mg

$\geq 25 \text{ to } < 60 \text{ mL/min/1.73m}^2$

10 mg

$< 25 \text{ mL/min/1.73m}^2$

Not recommended



Check Serum Potassium After 4 Weeks

Current Serum Potassium (mEq/L)

≤ 4.8

Current Dose 10 mg Once Daily

Increase to 20 mg

Current Dose 20 mg Once Daily

Maintain 20 mg

$> 4.8 \text{ to } 5.5$

Maintain 10 mg

Maintain 20 mg

> 5.5

Withhold Finerenone, Consider Restarting at 10 mg when Serum Potassium $\leq 5.0 \text{ mEq/L}$

Withhold Finerenone, Restart at 10 mg when Serum Potassium $\leq 5.0 \text{ mEq/L}$

Dosage and Administration*

For Adult Patients with HF LVEF $\geq 40\%$



- The target daily dose is **40 mg orally** once daily if eGFR at initiation is $\geq 60 \text{ mL/min/1.73m}^2$
- The target daily dose is **20 mg orally** once daily if eGFR at initiation is $\geq 25 \text{ to } < 60 \text{ mL/min/1.73m}^2$



After 4 Weeks:
Dose Adjustment Based on Current Serum Potassium, eGFR and Current Daily Dose

Current Finerenone Dose

Current Serum Potassium (mEq/L)

10 mg Once Daily

20mg Once Daily

40 mg Once Daily

<5.0

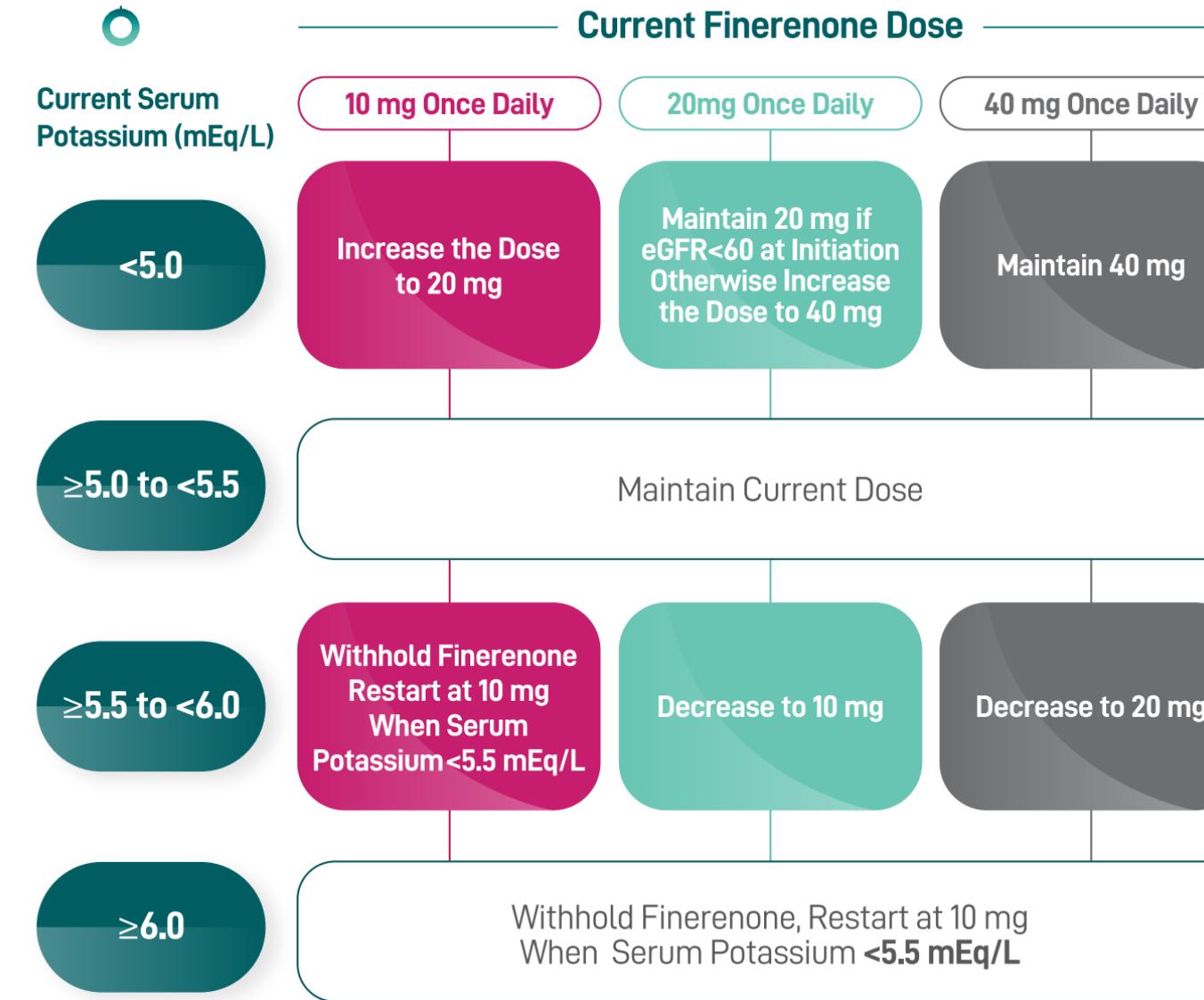
Increase the Dose to 20 mg

Maintain 20 mg if eGFR<60 at Initiation
Otherwise Increase the Dose to 40 mg

Maintain 40 mg



After 4 Weeks: Dose Adjustment Based on Current Serum Potassium, eGFR and Current Daily Dose



Key Clinical Take-Home Points

- ★ Finerenone is not a glucose-lowering drug
- ★ It is used for renal and cardiovascular protection
- ★ Benefits occur independent of blood pressure reduction
- ★ Careful potassium monitoring is essential
- ★ Particularly useful in diabetic patients with:
 - Persistent albuminuria
 - High cardiovascular risk
 - CKD progression despite ACEi/ARB ± SGLT2 inhibitor



Thank you and hope for a good rain