

Finerenone in Heart Failure with Mildly Reduced or Preserved Ejection Fraction: The FINEARTS-HF Trial

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FINEARTS-HF

Finerenone trial to investigate Efficacy and sAfeTy
superioR to placebo in paTientS with Heart Failure



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ORIGINAL ARTICLE

Finerenone in Heart Failure with Mildly Reduced or Preserved Ejection Fraction

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FINEARTS-HF Study Design

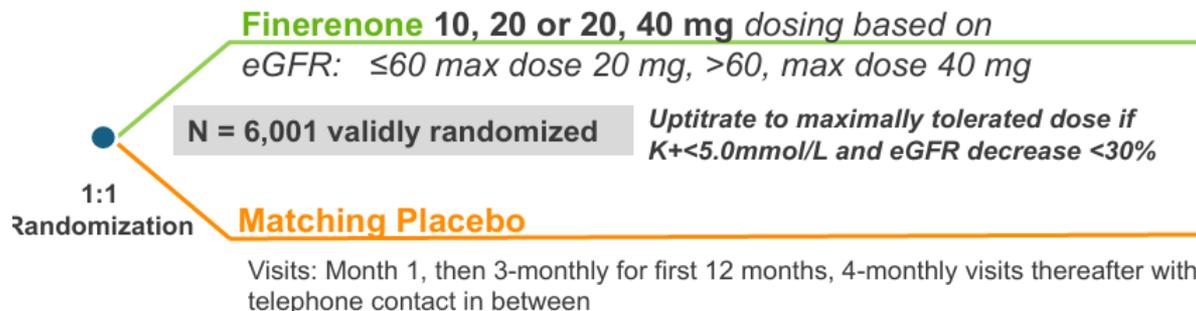
Randomized, double-blind, placebo-controlled trial testing the hypothesis that finerenone would reduce cardiovascular death and total worsening heart failure events in patients with heart failure and mildly reduced or preserved ejection fraction

Key Inclusion Criteria

- Symptomatic HF (NYHA class II-V) with LVEF \geq 40%
- Hospitalized, recently hospitalized, or ambulatory
- Elevated natriuretic peptide levels
- Structural heart disease (LA Enlargement or LVH)
- Diuretics in the 30d prior to randomization

Key Exclusion Criteria

- Potassium $>$ 5.0 mmol/L; eGFR $<$ 25 mL/min/1.73 m²
- MRA use 30d prior to randomization
- History of peripartum, chemotherapy induced, or infiltrative cardiomyopathy (e.g., amyloidosis)
- Alternative causes of signs or symptoms



Study Endpoints

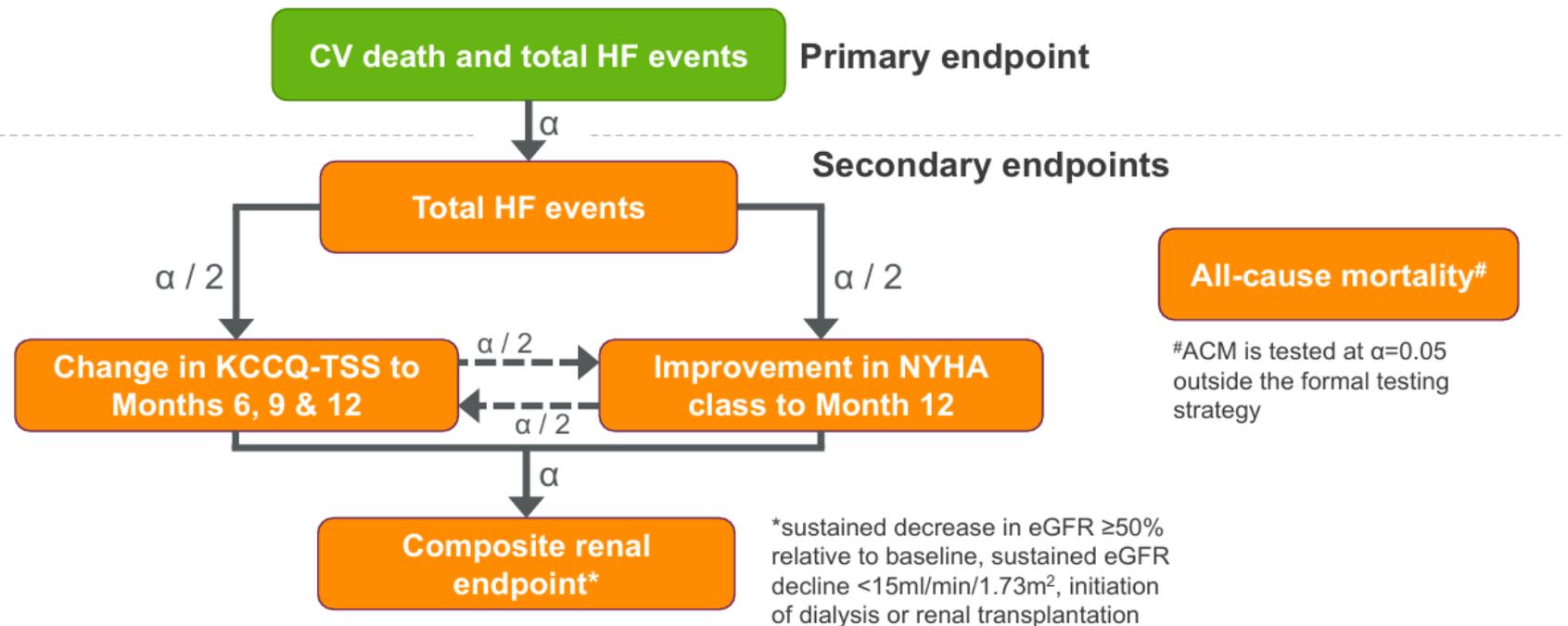
Primary Endpoint

- CV death and total HF events (hospitalizations/urgent visits)

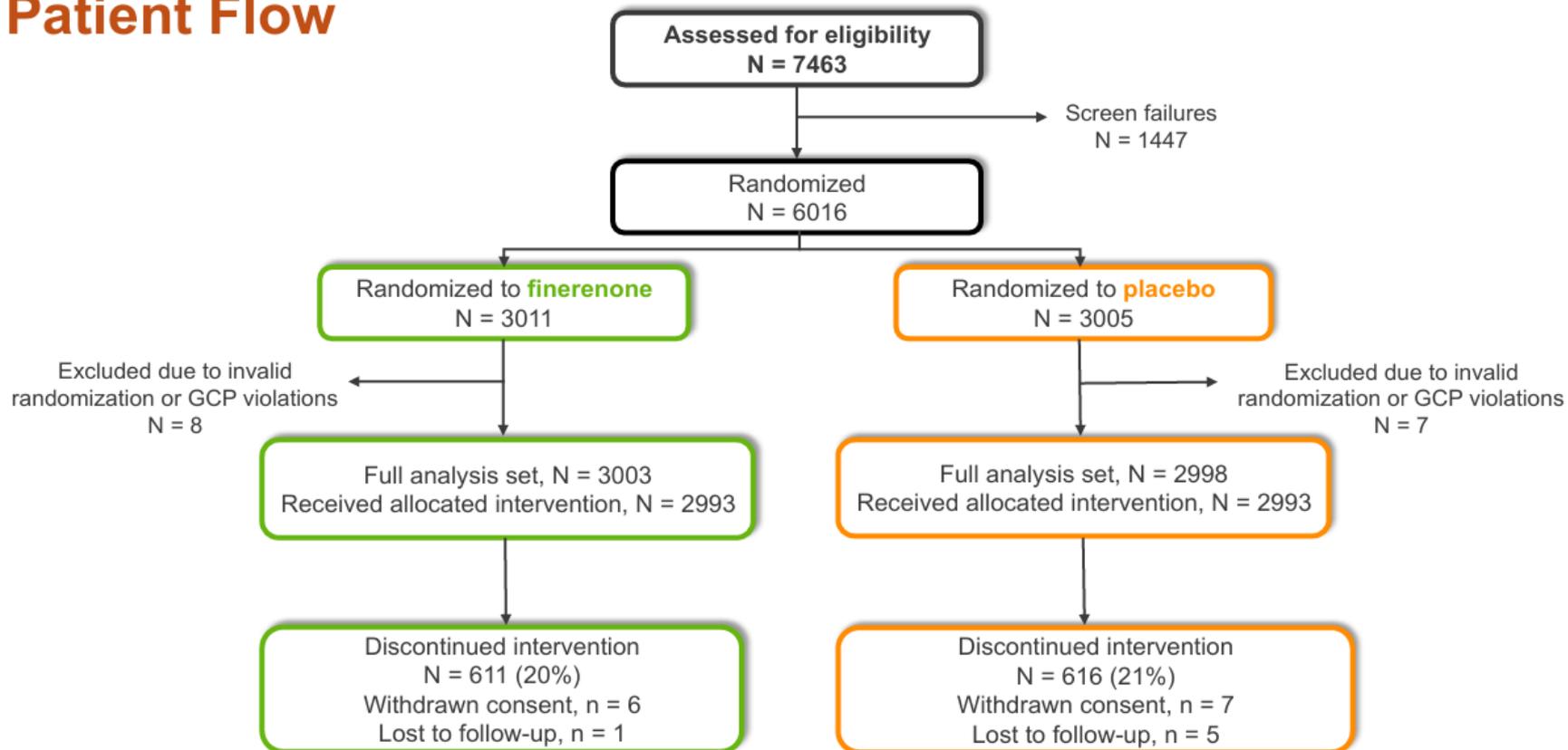
Secondary Endpoints

- Total HF events
- KCCQ-TSS at 6,9, and 12 months
- NYHA class at 12 months
- Renal composite endpoint
- All-cause mortality

Endpoints and Analysis Plan



Patient Flow



GCP, good clinical practice

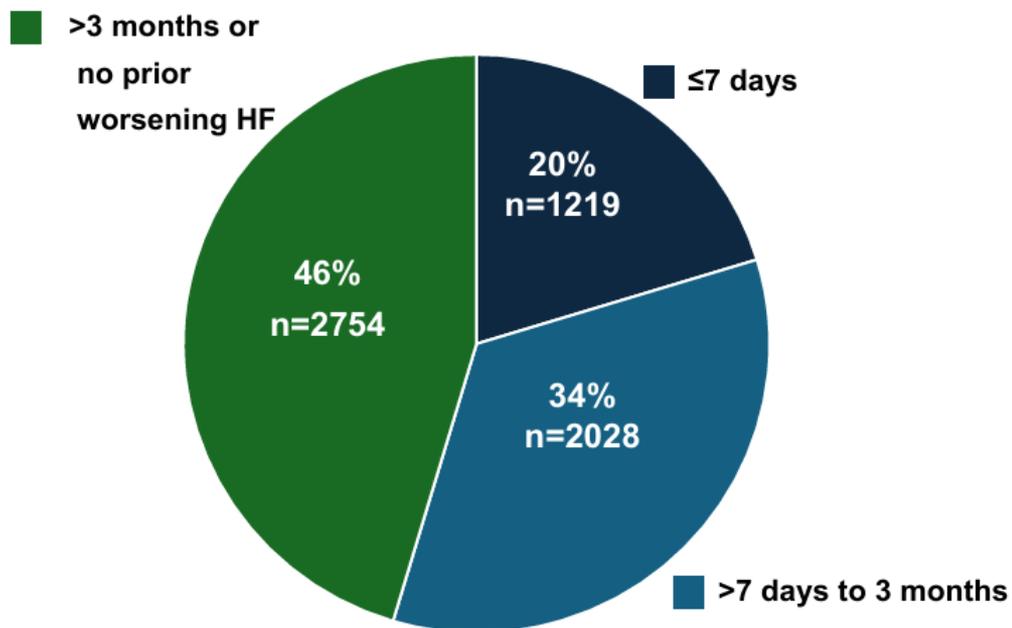
Baseline Characteristics

Well-balanced between treatment groups

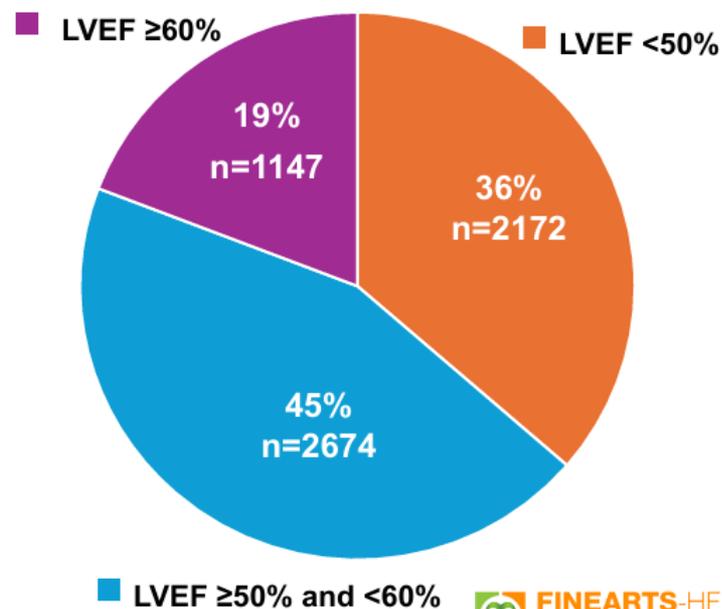
	Finerenone N = 3003	Placebo N = 2998		Finerenone N = 3003	Placebo N = 2998
 Age	72±10	72±10		1052	1028
Female Sex	45%	46%		[467, 1937]	[433, 1963]
<u>Race</u>			NT-proBNP (ng/L) (median)		
Asian	17%	17%	eGFR (mL/min/1.73m²)	62±19	62±20
Black	2%	1%	eGFR < 60	48%	48%
Other	3%	3%	UACR (mg/g)	18 [7,67]	19 [7,66]
White	79%	79%			
<u>Region</u>			Prior HF Hospitalization	60%	61%
Asia	16%	16%	History of LVEF ≤40%	5%	4%
Eastern Europe	44%	44%	Type II Diabetes	41%	41%
Latin America	11%	11%	Atrial Fibrillation on ECG	38%	38%
North America	8%	8%	History of Hypertension	88%	90%
Western Europe, Oceania and Others	21%	21%	History of Myocardial Infarction	26%	25%
<u>NYHA class</u>					
II	69%	69%	Loop Diuretic	87%	87%
III	30%	30%	Beta-blocker	85%	85%
IV	1%	1%	ACE Inhibitor	36%	36%
KCCQ-TSS	68±24	67±24	ARB	35%	35%
LVEF (%)	53±8	53±8	ARNI	9%	9%
Systolic Blood Pressure (mmHg)	130±15	129±15			
			Calcium Channel Blockers	32%	34%
			SGLT2 Inhibitor	13%	14%

Randomization timing relative to the most recent worsening HF event and LVEF status on randomization

20% of participants were randomized during or within 7 days of a worsening HF event

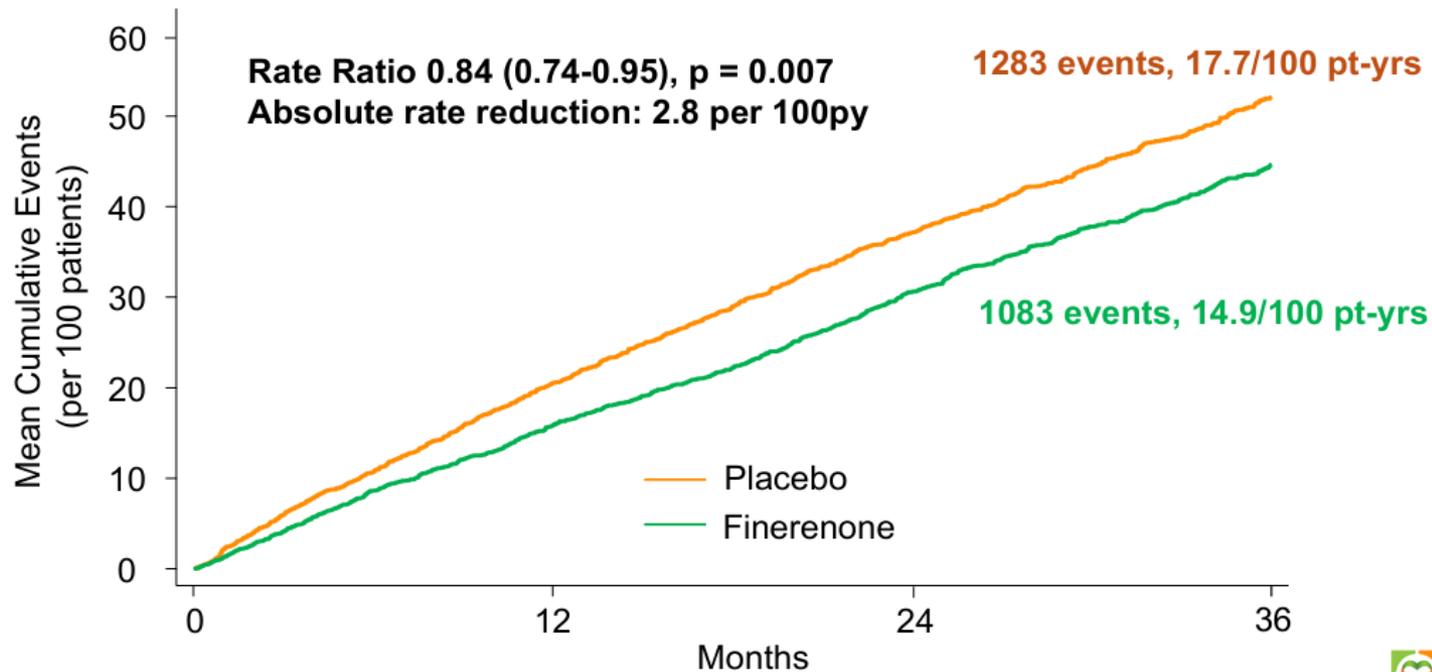


Mean LVEF status on randomization was 53% across both treatment arms

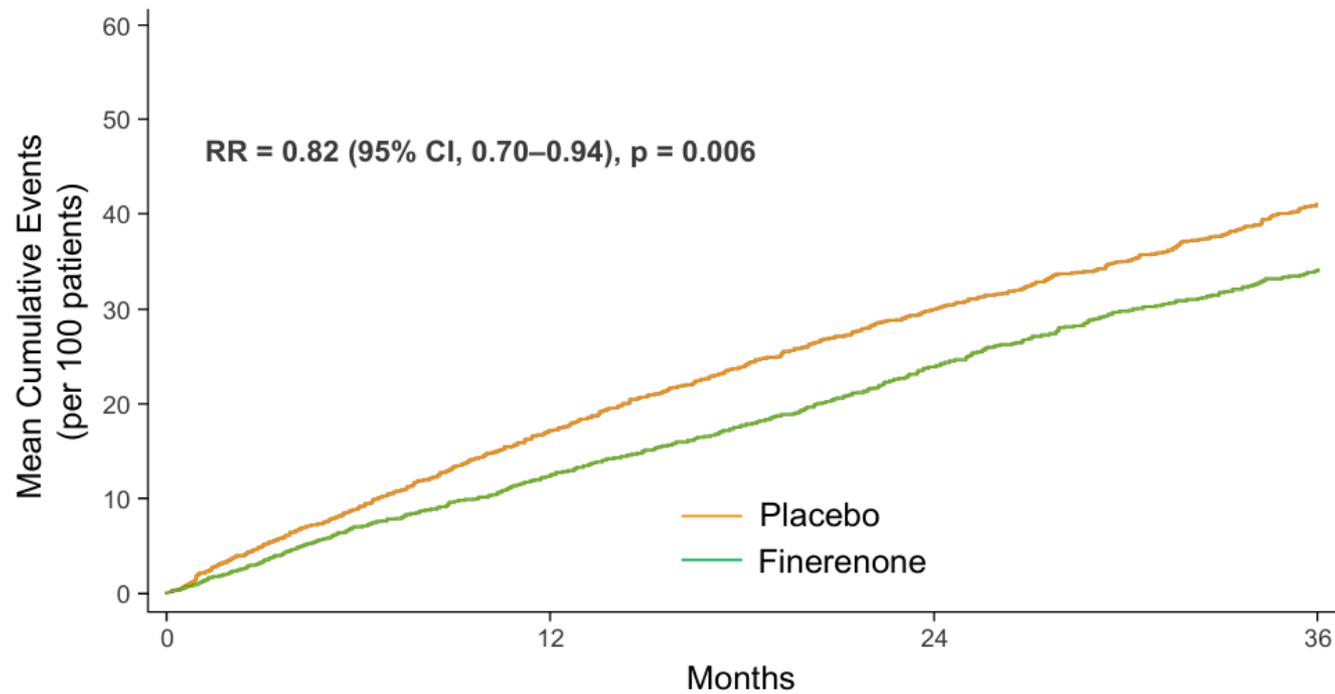


Primary Endpoint: CV Death and Total HF Events

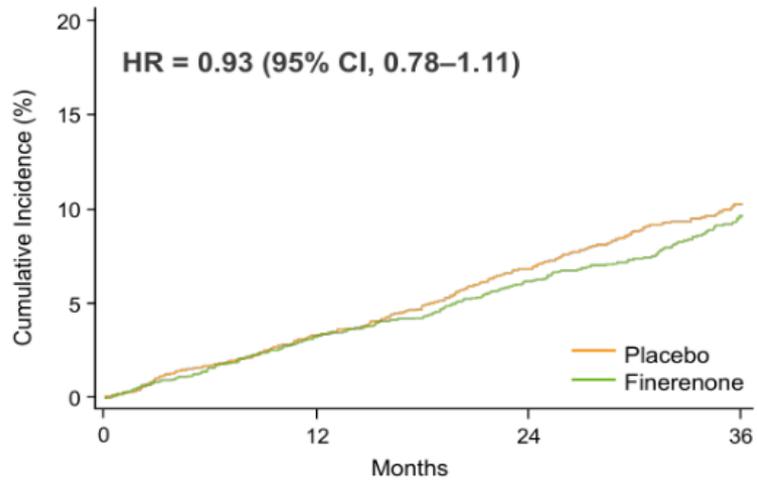
Finerenone reduced cardiovascular death and total worsening heart failure events over median follow-up of 32 months



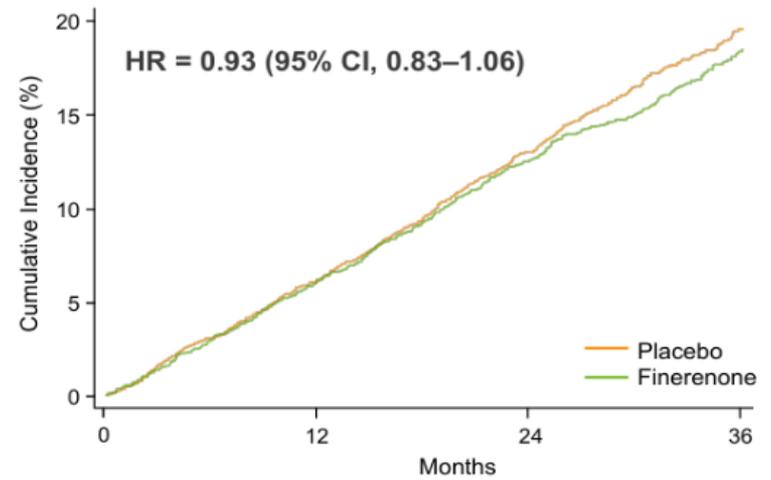
Secondary Endpoint: Total HF Events



Cardiovascular Death

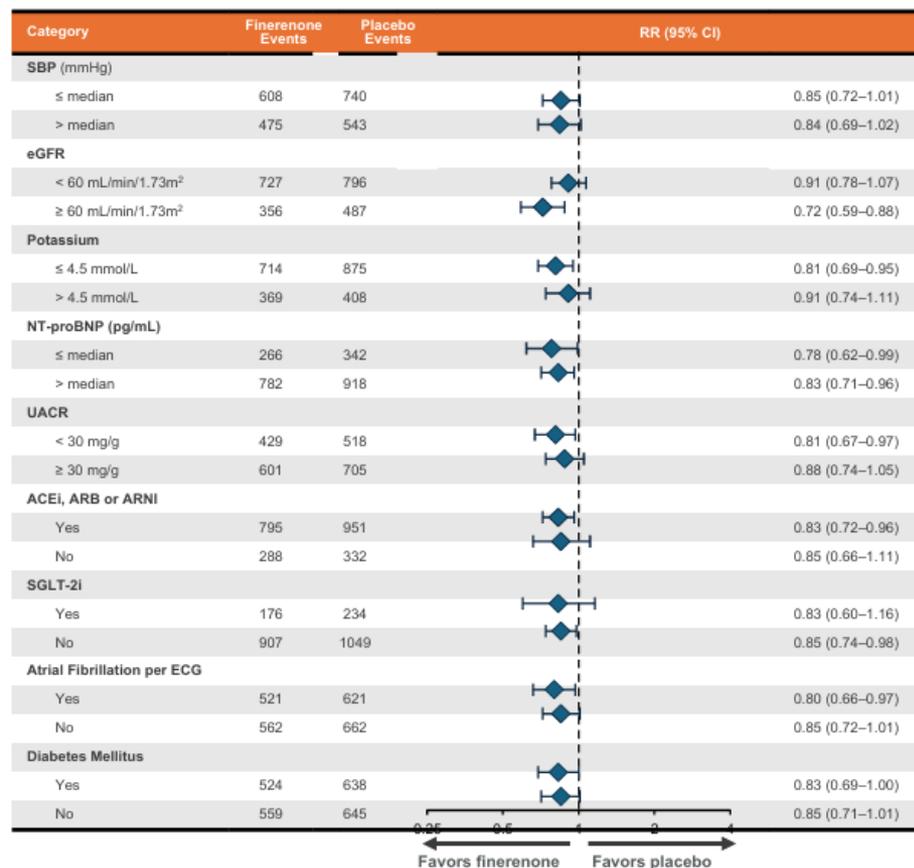
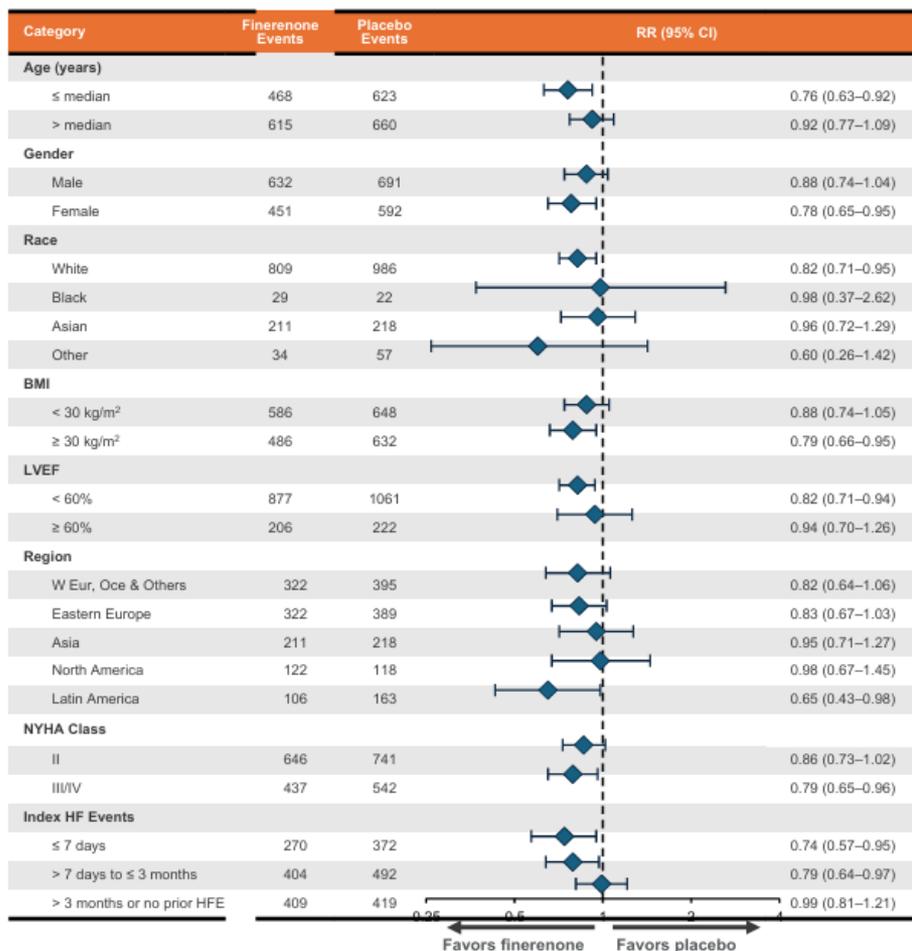


All-Cause Death



Prespecified Subgroups for Primary Outcome

Consistent treatment effects across all pre-specified subgroups, including ejection fraction and SGLT2-inhibitor use



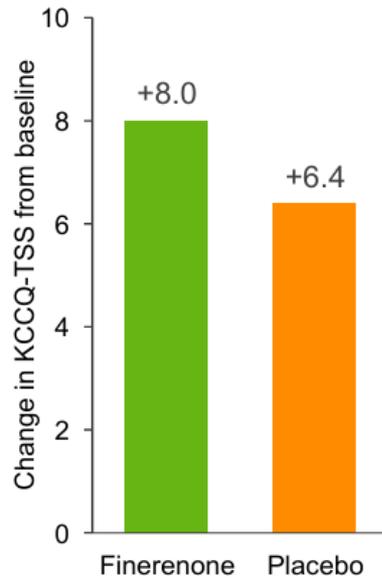
Change in KCCQ-TSS

6, 9, 12 Months

Improvement in Symptom Burden

Between-arm difference: +1.6 (0.8–2.3)

P<0.001

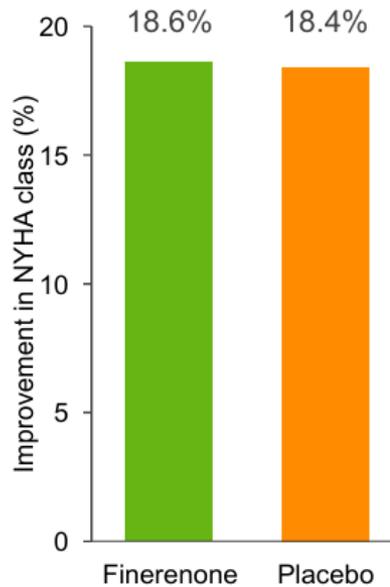


Improvement in NYHA Class

At 12 Months

No improvement in NYHA Class

OR 1.01 (95% CI, 0.88–1.15)



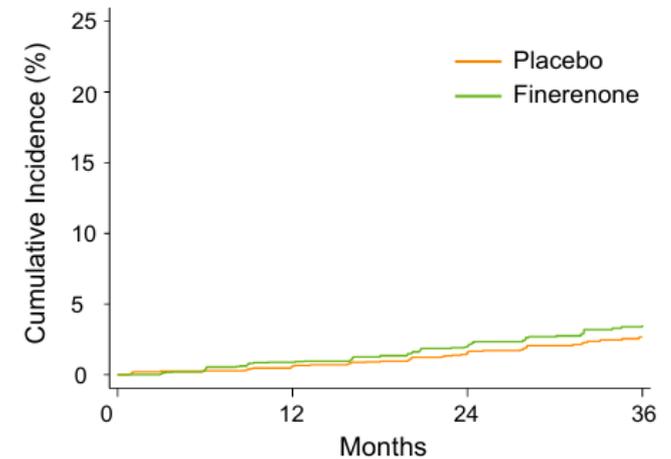
Renal Composite Outcome

Small number of Events; No significant difference

Finerenone events 75 (2.5%)

Placebo events 55 (1.8%)

HR 1.33 (95% CI, 0.94-1.89)



Safety

Treatment Emergent Safety Outcome	Finerenone (N=2993)	Placebo (N=2993)
Any Serious Adverse Event (SAE)	38.7%	40.5%
Serum creatinine ≥ 3.0 mg/dl	2.0%	1.2%
Serum potassium		
>5.5 mmol/l	14.3%	6.9 %
>6.0 mmol/l	3.0 %	1.4 %
<3.5 mmol/l	4.4 %	9.7 %
Investigator-reported hyperkalemia	9.7%	4.2%
Leading to hospitalization	0.5%	0.2%
Leading to death	0%	0%
Systolic blood pressure <100 mmHg	18.5%	12.4%

Conclusions

- Among patients with heart failure and a mildly reduced or preserved ejection fraction, finerenone reduced the risk of the primary composite outcome of cardiovascular death and total heart failure events, reduced total heart failure events, and improved overall health status
- These findings were consistent across prespecified subgroups, including across LVEF and in those on SGLT2 inhibitors
- Hyperkalemia was more common, and hypokalemia less common, in those receiving finerenone
- These data support the use of finerenone in patients with heart failure with mildly reduced or preserved ejection fraction

