IMPACT OF FINERENONE ON CARDIAC BIOMARKERS IN PATIENTS WITH T2D AND CKD -

A PRESPECIFIED FIDELITY BIOMARKER SUBSTUDY

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DISCLOSURES

Mario Berger, Katja Rohwedder, Frank Kramer, Karen Paraschin, Laura Goea, Peter Kolkhof, and Adam Skubala are employees of Bayer AG, Germany.

Andrea Scalise is an employee of Bayer Hispania SL.

Sebastian Voss is an employee of CHRESTOS Concept GmbH & Co. KG, Germany, a contract partner of Bayer.

Faiez Zannad has received personal fees from Boehringer Ingelheim during the conduct of the study; has received personal fees from Amgen, Applied Therapeutics, AstraZeneca, Bayer, Boston Scientific, Cardior, Cellprothera, Cereno Pharmaceutical, CVRx, Fresenius, Janssen, Merck, Novartis, and Vifor; and is the co-founder of CVCT and Cardiorenal, outside of the submitted work.

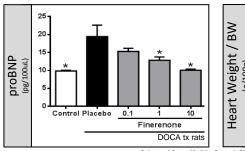
Peter Rossing has received grants from AstraZeneca, Bayer, and Novo Nordisk A/S, as well as consulting fees from Astellas, AstraZeneca, Bayer, Boehringer Ingelheim, Gilead, Merck, Mundipharma, Novo Nordisk A/S, and Sanofi. All fees to Steno Diabetes Center Copenhagen.

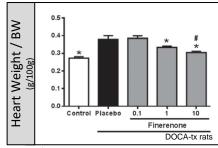
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RATIONALE

Confirming preclinical findings that finerenone protects heart (and kidney)¹ by measuring biomarkers of <u>cardiac stress and injury</u> in human plasma samples from two phase III studies (FIDELITY analysis)





Adapted from Kolkhof et al. 20141

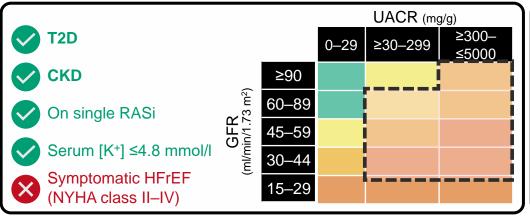
Finerenone reduces **proBNP** plasma levels and cardiac hypertrophy (HW/BW) in a chronic rat model of hyperaldosteronism-induced end-organ damage



FIDELITY IS A LARGE, POOLED PRESPECIFIED DATA ANALYSIS¹ OF FIDELIO-DKD² AND FIGARO-DKD³



Key eligibility criteria



CV composite

Time to CV death, nonfatal MI, nonfatal stroke, or HHF



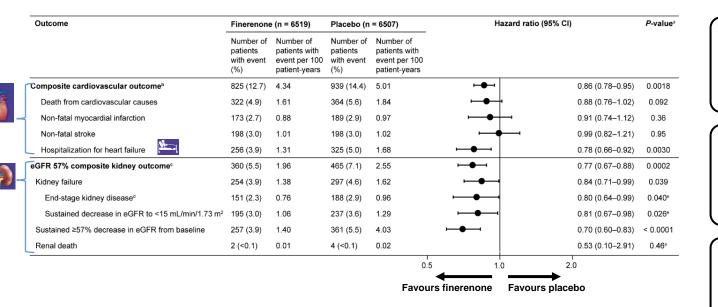
57% eGFR kidney composite

Time to kidney failure,[#] sustained ≥57% decrease in eGFR from baseline, or kidney-related death





KEY LEARNINGS FROM FIDELITY



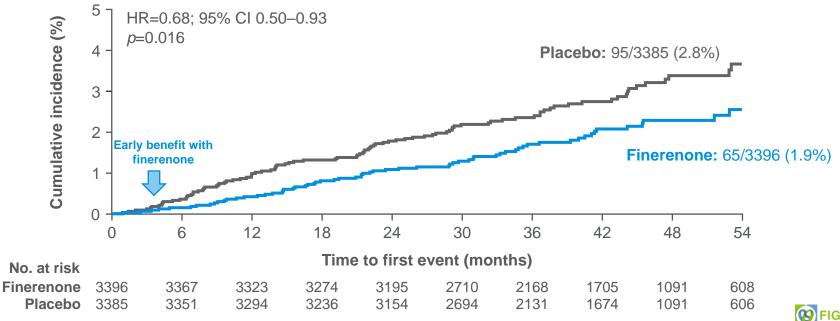
Finerenone reduced the risk of CV morbidity and mortality by 14% (NNT=46)

The CV benefit of finerenone was primarily driven by 22% reduction in HHF

Finerenone reduced the risk of CKD progression by 23% (NNT=60)



FINERENONE SIGNIFICANTLY REDUCED THE RISK OF NEW-ONSET HF BY 32% IN PATIENTS WITHOUT A HISTORY OF HF AT BASELINE



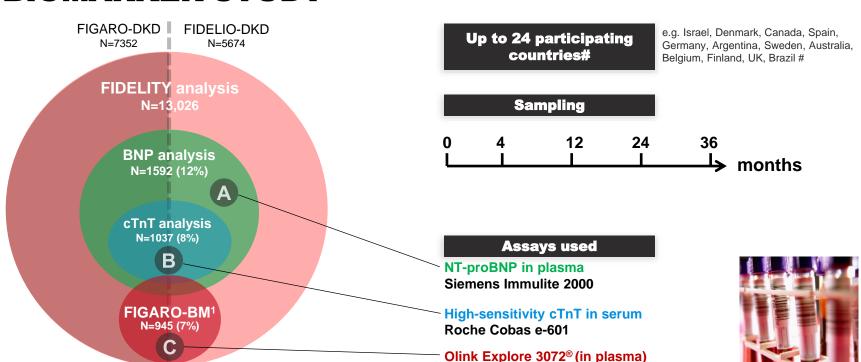


FINERENONE HAS A 1A RECOMMENDATION TO PREVENT HF IN PATIENTS WITH CKD AND T2D

Recommendations	Class*	Level*	
In patients with T2DM and CKD, [†] SGLT2 inhibitors (dapagliflozin or empagliflozin) are recommended to reduce the risk of HF hospitalization or CV death.	ı	Α	
In patients with T2DM and CKD, [†] finerenone is recommended to reduce the risk of HF hospitalization.	1	Α	© ESC 2023

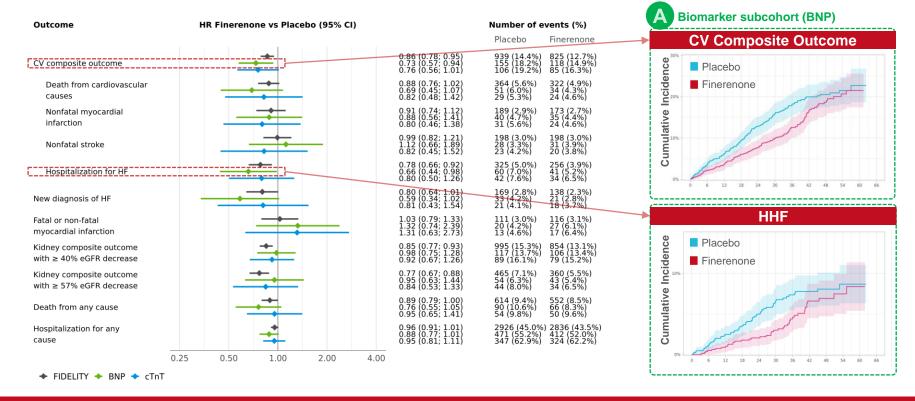


COMPOSITION OF COHORTS AND BIOANALYTICS IN BIOMARKER STUDY





BIOMARKER SUBPOPULATIONS ARE REPRESENTATIVE OF FIDELITY COHORT



Unpublished data

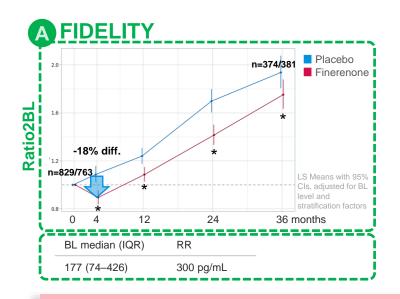


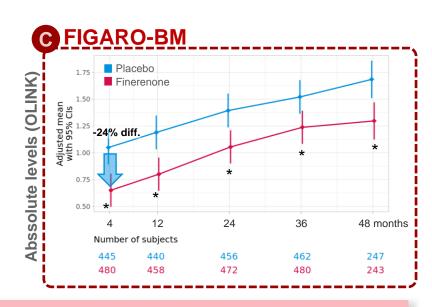
BASELINE CHARACTERISTICS

	FIDELITY	BNP population		cTnT population	
Characteristic	Total (N=13026)	Finerenone (N=793)	Placebo (N=853)	Finerenone (N=521)	Placebo (N=552)
Age [years], mean ± SD	64.8 ± 9.5	66.4 ± 8.5	66.8 ± 8.8	66.8 ± 8.1	67.3 ± 8.5
Male sex, n (%)	9088 (69.8%)	609 (76.8%)	670 (78.5%)	416 (79.8%)	439 (79.5%)
White race/ethnicity	8869 (68.1)	733 (92.4)	789 (92.5)	495 (95.0)	520 (94.2)
BMI [kg/m²], mean ± SD	31.3 ± 6.0	32.1 ± 5.6	32.1 ± 5.7	32.3 ± 5.4	32.1 ± 5.7
History of CV disease, n (%)	5935 (45.6%)	386 (48.7%)	409 (47.9%)	243 (46.6%)	255 (46.2%)
SBP [mmHg], mean ± SD	136.7 ± 14.2	138.3 ± 15.1	138.2 ± 15.1	137.8 ± 14.6	137.2 ± 15.0
eGFR [mL/min/1.73m²], mean ± SD	57.6 ± 21.7	55.9 ± 20.8	55.4 ± 20.5	53.8 ± 18.9	53.3 ± 18.9
UACR [mg/g]*	515 (198 - 1147)	407 (135 - 975)	440 (134 - 1015)	379 (116 - 925)	347 (106 - 894)
Serum potassium [mmol/L]*	4.3 (4.1 - 4.6)	4.3 (4.1 - 4.6)	4.3 (4.1 - 4.6)	4.3 (4.0 - 4.6)	4.3 (4.1 - 4.6)
Serum sodium [mmol/L]*	139 (137 - 141)	138 (137 - 140)	138 (137 - 140)	138 (137 - 140)	138 (137 - 140)
hsCRP [mg/L]*	2.21 (0.95 - 5.13)	2.36 (1.00 - 5.28)	2.32 (1.08 - 5.20)	2.38 (1.00 - 5.15)	2.32 (1.07 - 5.20)
HbA1C [%]*	7.5 (6.7 - 8.5)	7.5 (6.7 - 8.4)	7.5 (6.8 - 8.4)	7.5 (6.7 - 8.4)	7.5 (6.8 - 8.3)
NT-proBNP [pg/mL]*	-	177 (78 - 422)	177 (72 - 431)	177 (74 - 421)	177 (70 - 429)
(hs) cTnT [pg/mL]*	-	-	-	17.7 (6.5 - 25.0)	19.0 (6.5 - 28.2)



NT-PROBNP LEVELS IMPROVE UPON FINERENONE TREATMENT (1/2)

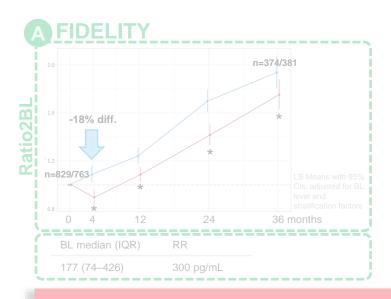


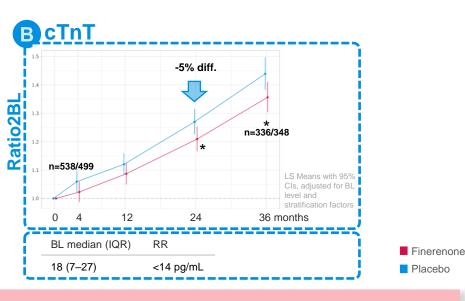


In the FIDELITY subcohort (A), levels of NT-proBNP were reduced by ~18% early and persistently in the finerenone arm (vs placebo). In FIGARO-BM (C), these findings were confirmed!



CTNT LEVELS IMPROVE UPON FINERENONE TREATMENT (2/2)

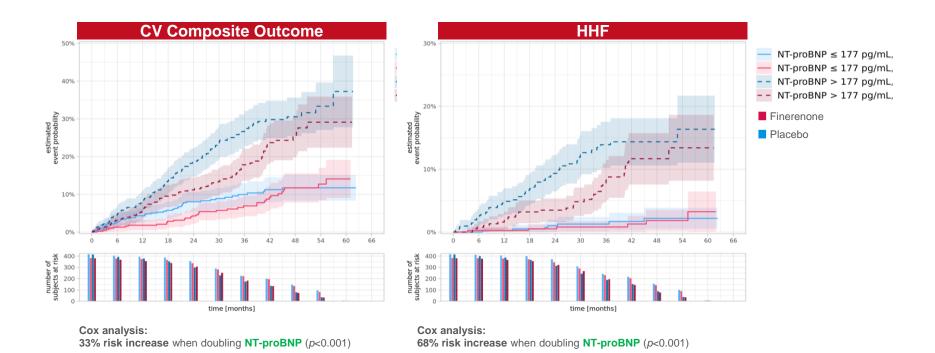




- Significant reduction in both cardiac markers of cardiac stress and injury upon finerenone treatment (vs placebo)
- Biomarker findings are consistent with overall heart and kidney benefits in phase III studies



NT-PROBNP AT BASELINE IS PROGNOSTIC FOR CV COMPOSITE AND HOSPITALIZATION FOR HF

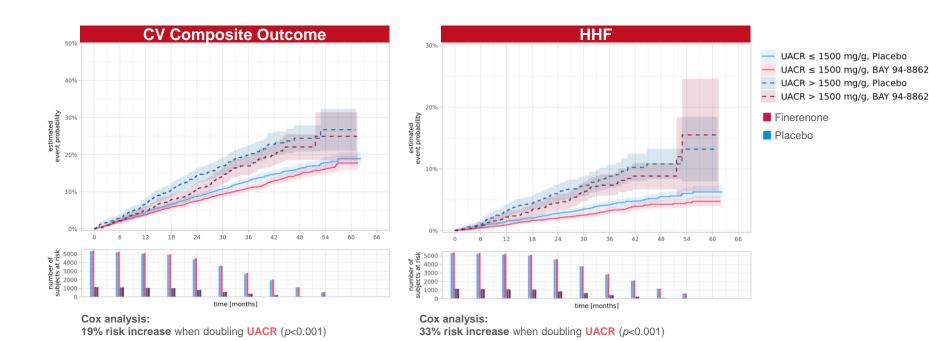


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BASELINE UACR IS PROGNOSTIC FOR CV COMPOSITE AND HOSPITALIZATION FOR HF



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TAKE-HOME MESSAGES

- Finerenone led to an early and persisting reduction in NT-proBNP plasma levels compared with placebo, on top of maximum tolerated labeled doses of RASi
- Likewise, finerenone improved (high-sensitivity) cTnT serum levels significantly after ≥24 months of treatment
- Our biomarker findings are in line with outcome data from phase III studies showing a 22% risk reduction for HHF (FIDELITY)¹ and a 32% risk reduction of new-onset HF in patients without a history of HF at baseline (FIGARO-DKD)²
- Altogether, our findings are suggestive of reduced adverse cardiac remodeling
- These data further substantiate the 1A recommendation to use finerenone to prevent HF in patient with CKD and T2D³
- Finerenone is currently tested in HF patients, as part of the MOONRAKER program, which includes more than 15,000 patients across clinical settings and ejection fractions.

THANK YOU





#AHA23