

The Ohio State University College of Pharmacy Journal Club

Background and Overview				
Title	FIGARO-DKD			
	 Pitt B, Filippatos G, Agarwal R, et al. Cardiovascular events with finerenone in kidney disease and type 2 diabetes. N Engl J Med. doi: 10.1056 The Impact Factor for the New England Journal of Medicine is 91.245 and this research is appropriate for this journal as it publishes a wide range of clinical research for new therapies and practices 			
Funding Source	 This trial was funded by Bayer HealthCare The authors on this study receive consultant and speaking fees from Bayer HealthCare 			
Introduction/ Background	 Diabetic kidney disease (DKD) is a clinical syndrome in patients with diabetes characterized by albuminuria on at least 2 separate occasions separated by 3 months accompanied by hypertension, a progressive increase in proteinuria, and declining renal function There is a strong correlation between cardiovascular disease (CVD) and increased 			
	 mortality in patients with DKD with increased albuminuria and decreased glomerular filtration rate (GFR) Guidelines and Therapeutics Kidney Disease Improving Global Outcomes (KDIGO) 2020 Clinical Practice Guideline for Diabetes Management in Chronic Kidney Disease Treatment emphasizes risk reduction via lifestyle modifications including smoking cessation, diet and weight loss, glycemic control, and management of dyslipidemia and hypertension The standard of care (SoC) is ACE inhibitors which have been shown to slow but not prevent the progression of DKD with a significant reduction in all-cause mortality/morbidity, overall survival benefit is NOT demonstrated with ARBs (RENAAL/IDNT) Long-term use of ACE-i/ARBs result in incomplete suppression of aldosterone leading to an "aldosterone escape" phenomenon in which mineralocorticoid receptor antagonists (MRAs) have been shown to improve kidney outcomes such as proteinuria No large, long-term studies have examined if MRAs can slow the progression of CKD or prevent cardiovascular (CV) events Finerenone is a novel, non-steroidal selective antagonist of the mineralocorticoid receptor (MR) that blocks MR mediated sodium reabsorption and MR overactivation in both epithelial (e.g., kidney) and nonepithelial tissues (e.g., heart and blood vessels) Shown to reduce cardiac and renal hypertrophy along with a greater reduction in serum BNP levels and proteinuria compared to eplerenone 			

Objective(s)	
	Methods
	 Prospective, Randomized, Superiority, Double-blind, Placebo-controlled, Parallel- group, Multicenter, Event-driven Phase 3 Trial Independent data and safety monitoring committee oversaw patient safety and conducted one planned efficacy interim analysis Outcomes:
Study Design	 Primary: composite of death from cardiovascular causes, nonfatal myocardial infarction, nonfatal stroke, or hospitalization for heart failure Secondary: composite of the first occurrence of kidney failure, a sustained decrease from baseline of at least 40% in the eGFR for a period of at least 4 weeks, or death from renal causes Hospitalization for any cause, death from any cause, change in the urinary albumin-to creatinine ratio from baseline to month 4; and a kidney composite outcome
	 Efficacy & Safety ARTS-DN trial: finerenone doses ranging from 1.25-20 mg were investigated for safety and efficacy in patients with T2DM and a clinical diagnosis of CKD, all doses were found to be well-tolerated and resulted in statistically significant reductions in albuminuria compared to placebo
	 Interventions: 4-16 week run in period to optimize ACE-i/ARB therapy Wash out period starting at discontinuation of study drug at end of study visit and follow up post-treatment visit in 33 days Patients received either 10 or 20 mg finerenone oral tablets based on eGFR with titration to 20 mg if tolerated Ancillary treatments included ACEi/ARB (99%), SGLT-2 inhibitors (8.4%), and GLP-1 receptor agonists (7.5%) The mean adherence to finerenone and the placebo were 91.5% and 92.9% respectively
	 Median follow-up of 3.4 years Intention-to-treat analysis
Study Population	 Subjects were identified based on inclusion/exclusion criteria at approximately 600 study centers worldwide 1:1 randomization stratified by region, type of albuminuria, eGFR, and CVD history following the run-in period Inclusion Criteria: ≥18 years old, DM II, CKD treated with maximum titrated dose of ACE/ARB, persistent high/very high albuminuria, and a serum potassium ≤4.8 mmol/L Exclusion Criteria: serum K >4.8 mmol/L, non-diabetic kidney disease, UACR >5000 mg/g, A1c >12%, uncontrolled hypertension (SBP ≥170 mmHg, DBP ≥110 mmHg), hypotension (SBP <90 mmHg), clinical diagnosis of HFrEF and persistent symptoms, stroke, transient ischemic cerebral attack, acute coronary syndrome, or hospitalization for worsening HF in the past 30 days, receiving dialysis, Addison's disease, renal allograft in place or scheduled for a kidney transplant within 12 months, hepatic insufficiency classified as Child–Pugh C, known drug allergy to the study treatment, active malignancy, or pregnancy/breast-feeding

Statistical Analysis	the duration of	t time of scre ds models fo outcome of o A model d measures of nges from th ments of urin the study, us analyzed as 20% lower ri	eening, ar r primary change in (MMRM) e baselin e albumi sing MMF each me sk of a pr	nd presence/abso subgroup analys UACR from baso procedure was u e eGFR n and creatinine RM is reasonable asurement is not	ence of cardiovascular ses eline to month 4 was used as a sensitivity e were conducted for e since data gathered t considered to be
	•	Results	.05		
Results of Study	 Baseline characteristics 7.7%, median systolic B eGFR of ~68 mL/min/1. Baseline medications — no. (%) 	of note: me P of ~136, 45	5% of pati	ents with histor tients eGFR ≥60	y of CVD, and mean
		agencies.			
	Renin-angiotensin system inhib	itor	3681 (99.	1. Same	and the second se
	Diuretic		1748 (47.	4) 1748 (4	47.7) 3496 (47.6)
	Statin		2552 (69.2) 2632 (71.8)		71.8) 5184 (70.5)
	Glucose-lowering therapy		3607 (97.	9) 3589 (9	97.9) 7196 (97.9)
	Insulin		2023 (54.	9) 1970 (5	53.7) 3993 (54.3)
	GLP-1 receptor agonist		308 (8.4	242 (6	5.6) 550 (7.5)
	SGLT2 inhibitor		314 (8.5	2	
	Outcome	Finerenone (N=3686)	Placebo (N=3666)		
		no. of patients	with event (%	Hazard Ratio (95% CI)	
	Primary composite outcome	458 (12.4)	519 (14.2)	0.87 (0.76-0.98)	
	Death from cardiovascular causes	194 (5.3)	214 (5.8)	0.90 (0.74-1.09)	
	Nonfatal myocardial infarction	103 (2.8)	102 (2.8)	0.99 (0.76-1.31) 0.97 (0.74-1.26)	
	Nonfatal stroke Hospitalization for heart failure	108 (2.9) 117 (3.2)	111 (3.0) 163 (4.4)	0.71 (0.56-0.90)	
	Kidney composite outcome with 240% decrease in eGFR	350 (9.5)	395 (10.8)	0.87 (0.76-1.01)	
	Kidney failure	46 (1.2)	62 (1.7)	0.72 (0.49-1.05)	
	End-stage kidney disease	32 (0.9)	49 (1.3)	0.64 (0.41-0.995)	
	Sustained decrease in eGFR of <15 ml/min/1.73 m ²	28 (0.8)	38 (1.0)	0.71 (0.43-1.16)	
	Sustained ≥40% decrease in eGFR from baseline Death from renal causes	338 (9.2) 0	385 (10.5)	0.87 (0.75-1.00)	
	Hospitalization for any cause	1573 (42.7)	2 (0.1) 1605 (43.8)	0.97 (0.90-1.04)	
	Death from any cause	333 (9.0)	370 (10.1)	0.89 (0.77-1.04)	
	Kidney composite outcome with	108 (2.9)	139 (3.8)	0.77 (0.60-0.99)	
	≥57% decrease in eGFR Sustained ≥57% decrease in eGFR	90 (2.4)	116 (3.2)	0.76 (0.58-1.00)	
	from baseline				

	Event	Finerenone (N = 3683)	Placebo (N = 3658)
	Investigator-reported adverse events — no. (%)		1
	Any adverse event	3134 (85.1)	3129 (85.5)
	Adverse event related to finerenone or placebo	560 (15.2)	413 (11.3)
	Adverse event leading to discontinuation of trial regimen	207 (5.6)	183 (5.0)
	Any serious adverse event	1158 (31.4)	1215 (33.2)
	Serious adverse event related to finerenone or placebo	35 (1.0)	27 (0.7)
	Serious adverse event leading to discontinuation of trial regimen	70 (1.9)	76 (2.1)
	Adverse event with outcome of death	79 (2.1)	100 (2.7)
	Hyperkalemia†	396 (10.8)	193 (5.3)
	Hyperkalemia related to finerenone or placebo	240 (6.5)	114 (3.1)
	Serious hyperkalemia	25 (0.7)	4 (0.1)
	Hospitalization due to hyperkalemia	21 (0.6)	2 (0.1)
	Permanent discontinuation of trial regimen due to hyperkalemia	46 (1.2)	13 (0.4)
	Central laboratory assessments — no./total no. (%)		
	Serum potassium level		
	>5.5 mmol/liter	495/3677 (13.5)	233/3655 (6.4
	>6.0 mmol/liter	86/3677 (2.3)	43/3655 (1.2
	 Overall incidences of any serious adverse event groups with hyperkalemia being twice as likely these adverse events led to death Patients in the finerenone group had a lower ri outcome driven mainly by a significant reduction failure (3.2% vs 4.4%) 	in the finerenone sk for the primary	group, none
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Conclusion/ Recommendations for practice site	 Patient recruitment- external validity may be more limited due to homogenous patient population, less than 10% of patients were on either an SGLT-2 inhibitor or GLP-1 receptor agonist Study design- patients could be titrated up or down on their dose of finerenone depending on changes in their eGFR or serum potassium, approximately 10% of patients receiving finerenone experienced hyperkalemia which would warrant a dose decrease skewing results towards being less significant Compared to FIDELIO-DKD, the kidney composite outcome failed to be significant Safety and efficacy were similar to previous findings in ARTS-DN and FIDELIO-DKD Finerenone as an adjunctive therapy shows promise for preventing the progression of CKD with albuminuria in patients with T2DM for which no current therapies exist In clinical practice, lower incidences of hyperkalemia and greater selectivity compared to current MRAs should increase patient compliance via reduction in adverse events and undesirable side effects From a pathophysiology standpoint, long-term use should theoretical be effective for primary prevention of CV events and prevention of CKD in patients with albuminuria A significant reduction in hospitalizations suggests finerenone may have a place in heart failure treatment The number needed to treat (NNT) to prevent one primary outcome event was 47 May see recommendations for finerenone's use be incorporated into the ADA and KDIGO guidelines Finerenone should be added to formulary with restrictions being: Only to be used as an adjunct treatment in patients with T2DM with mild- to-moderate albuminuria who are on maximally tolerated doses of an ACE/ARB
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