

# Kerendia (finerenone)



**NEW PRODUCT SLIDESHOW**

**MPR**

# Introduction

- **Brand name:** Kerendia
- **Generic name:** Finerenone
- **Pharmacologic class:** Nonsteroidal mineralocorticoid receptor antagonist (MRA)
- **Strength and Formulation:** 10mg, 20mg; tablets
- **Manufacturer:** Bayer HealthCare Pharmaceuticals
- **How supplied:** Tabs—30, 90
- **Legal Classification:** Rx

# Indication

- To reduce the risk of **sustained eGFR decline, end stage kidney disease, cardiovascular death, non-fatal myocardial infarction, and hospitalization for heart failure** in adults with chronic kidney disease associated with type 2 diabetes.

# Dosage and Administration

- Swallow whole.
- If unable to swallow, tabs may be crushed and mixed with water or soft foods (eg, applesauce).
- Measure serum  $K^+$  levels and estimated glomerular filtration rate (eGFR) prior to initiation.
- Do not initiate treatment if serum  $K^+$  is  $>5.0\text{mEq/L}$ .
- Recommended starting dosage based on eGFR:
  - eGFR ( $\geq 60\text{mL/min/1.73m}^2$ ): initially 20mg once daily.
  - eGFR ( $\geq 25$  to  $<60\text{mL/min/1.73m}^2$ ): initially 10mg once daily.
  - eGFR ( $<25\text{mL/min/1.73m}^2$ ): not recommended.
- Target daily dose is 20mg.

# Dosage and Administration

## Monitoring and Dose Adjustment

- Measure serum K<sup>+</sup> 4 weeks after initiation, periodically during treatment, and adjust dose as needed.
- Dose adjustment based on current serum K<sup>+</sup> and current dose:

		Current Kerendia Dose	
		10mg once daily	20mg once daily
Current Serum Potassium (mEq/L)	≤4.8	Increase to 20mg once daily*	Maintain 20mg once daily
	>4.8–5.5	Maintain 10mg once daily	Maintain 20mg once daily
	>5.5	Withhold. Consider restarting at 10mg once daily when ≤5.0mEq/L.	Withhold. Restart at 10mg once daily when ≤5.0mEq/L.

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

# Considerations for Specific Populations

- **Pregnancy:** No available data to evaluate drug-associated risk of major birth defects, miscarriage, or adverse maternal or fetal outcomes.
- **Nursing mothers:** Avoid breastfeeding during and 1 day after treatment.
- **Pediatric:** <18years: not established.
- **Geriatrics:** No overall differences observed between younger patients and patients 65 years of age and older.
- **Hepatic impairment:** Avoid use in severe hepatic impairment (Child Pugh C). Consider additional serum K<sup>+</sup> monitoring in patients with moderate hepatic impairment (Child Pugh B).

# Contraindications

- Concomitant treatment with strong CYP3A4 inhibitors (eg, itraconazole).
- Patients with adrenal insufficiency.

# Warnings and Precautions

- Increased risk of hyperkalemia in patients with decreasing kidney function and higher baseline potassium levels.
- Measure serum K<sup>+</sup> and eGFR in all patients prior to initiation and adjust dose accordingly.

# Interactions

- Potentiated by strong CYP3A4 inhibitors (eg, itraconazole): see Contraindications.
- Avoid concomitant grapefruit or grapefruit juice.
- Potentiated by moderate or weak CYP3A4 inhibitors (eg, erythromycin, amiodarone); monitor and adjust dose appropriately.
- Antagonized by strong or moderate CYP3A4 inducers (eg, efavirenz, rifampicin); avoid.
- Concomitant use with drugs or supplements that increase serum  $K^+$ ; monitor serum  $K^+$  more frequently.

# Adverse Reactions

- **Most common ( $\geq 1\%$  and more frequently than placebo):** Hyperkalemia, hypotension, hyponatremia.

# Mechanism of Action

- **Finerenone** is a nonsteroidal, selective antagonist of the mineralocorticoid receptor (MR), which blocks MR-mediated sodium reabsorption and MR overactivation in both epithelial (eg, kidney) and nonepithelial (eg, heart, blood vessels) tissues.
- MR overactivation is thought to contribute to fibrosis and inflammation.
- Finerenone has a high potency and selectivity for the MR and has no relevant affinity for androgen, progesterone, estrogen, and glucocorticoid receptors.

# Pharmacokinetics

- Steady-state reached after 2 days of dosing.
- **Absorption:**  $C_{max}$ : 0.5 to 1.25 hours after dosing.
- **Distribution:** Plasma protein binding: 92% (primarily to serum albumin, in vitro).
- **Metabolism:** CYP3A4 (primary; 90%), and CYP2C8 (minor; 10%).
- **Elimination:** Terminal half-life: 2 to 3 hours.
- **Excretion:** Renal (80%), fecal (20%).

# Clinical Trials

- Approval was based on the randomized, double-blind, placebo-controlled, multicenter phase 3 FIDELIO-DKD study that evaluated the efficacy and safety of finerenone, in addition to standard of care, in 5674 patients with chronic kidney disease associated with type 2 diabetes.
- Patients were randomly assigned 1:1 to receive finerenone (n=2833) or placebo (n=2841).
- The **primary composite endpoint** was time to first occurrence of kidney failure, a sustained decrease of at least 40% in eGFR from baseline, or renal death.

# Clinical Trials

## ■ Patient demographics

- Mean age: 66 years.
- 70% Male; 63% White; 25% Asian; 5% Black.
- At baseline:
  - Mean eGFR: 44mL/min/1.73m<sup>2</sup>, with 55% of patients having an eGFR <45mL/min/1.73m<sup>2</sup>.
  - Median urine albumin-to-creatinine ratio: 852mg/g.
  - Mean glycated hemoglobin A1c (HbA1c): 7.7%.
  - 99.8% were treated with an angiotensin-converting enzyme inhibitor (ACEi) or angiotensin receptor blocker (ARB).
  - 97% were on an antidiabetic agent; 74% were on a statin; 57% were on an antiplatelet agent.
- Approximately 46% had a history of atherosclerotic cardiovascular disease.

# Clinical Trials

- After a median follow-up of 2.6 years, results showed that finerenone reduced the incidence of the **primary composite endpoint** of kidney failure, sustained eGFR decline  $\geq 40\%$ , or renal death by 17.8% (n=504/2833) compared with 21.1% (n=600/2841) in patients treated with placebo (hazard ratio [HR], 0.82; 95% CI, 0.73-0.93;  $P = .001$ ).
- Treatment with finerenone was also associated with a lower incidence of the **secondary composite endpoint** of cardiovascular death, non-fatal myocardial infarction, non-fatal stroke, or hospitalization for heart failure compared with patients treated with placebo (13% [n=367/2833] vs 14.8% [n=420/2841]; HR, 0.86; 95% CI, 0.75-0.99;  $P = .034$ ).

# New Product Monograph

- For more information view the product monograph available at:

<https://www.empr.com/drug/kerendia/>