

## Finerenone for Treating Chronic Kidney Disease (stage 3 and 4 with Albuminuria) associated with Type 2 Diabetes in Adults - Full Clinical Guideline

Reference no.:CG-CLIN/4212/23

- Finerenone is a non-steroidal, selective mineralocorticoid receptor antagonist
- Clinical study showed that in patients with CKD (chronic kidney disease) and type 2 diabetes, treatment Finerenone resulted in **lower risks of CKD progression and cardiovascular events than placebo.**
- NICE [TA877] recommends Finerenone as an add-on to optimised standard care, if:
  - eGFR between  $\geq 25$  ml/min/1.73m<sup>2</sup> to  $< 60$  ml/min/1.73m<sup>2</sup> and
  - CKD associated with **Type 2 diabetes and**
  - **Urine albumin-creatinine ratio (uACR) > 3mg/mmol and**
  - Patient already receiving the highest tolerated licensed doses of, unless they are unsuitable:
    - **angiotensin-converting enzyme (ACE) inhibitors or angiotensin-receptor blockers (ARBs) and**
    - **sodium-glucose co-transporter-2 (SGLT2) inhibitor and**

### Treatment initiation

Serum potassium level (mmol/L)	
$\leq 4.8$	Start finerenone 10mg daily
<b>4.9 to 5.0</b>	Finerenone may be considered with additional serum potassium monitoring within the first 4 weeks, based on the patient's co-morbidities and subsequent potassium levels.
$> 5.0$	Do not start finerenone
eGFR (mL/min/1.73m <sup>2</sup> )	
$\geq 25$ to $< 60$	Start 10mg daily
$< 25$	Do not start finerenone

The starting dose is 10mg once daily. The recommended target dose is 20mg once daily.

### Treatment continuation and dose adjustment

Serum potassium (mmol/L)	Finerenone dose (once daily)	
	10mg	20mg
$\leq 4.8$	Consider increasing to 20mg OD	Maintain 20mg OD
<b><math>&gt; 4.8</math> to <math>5.5</math></b>	Maintain 10mg OD	Maintain 20mg OD

>5.5	Withhold Finerenone  Consider restarting at 10mg once daily when serum potassium $\leq$ 5.0 mmol/L
<b>eGFR</b>	
If eGFR decrease is > 30% from the previous measurement, to recheck U+E in 5-7 days. If further decline of eGFR on repeat U+E, to stop Finerenone.	

A transient decline in eGFR ((mean 2 mL/min/1.73 m<sup>2</sup>) and a drop in blood pressure (2-4 mm Hg) may be observed upon initiating treatment. Both are reversible during continuous treatment.

Due to limited clinical data, Finerenone should be discontinued in patients who have progressed to end-stage renal disease (eGFR < 15 ml/min/1.73m<sup>2</sup>).

### Monitoring

- serum potassium and eGFR must be rechecked **4 weeks after**: initiation of treatment, increment of dose or restarting of treatment.
- Thereafter, serum potassium should be remeasured periodically and as needed based on patient characteristics and serum potassium levels.

### Contraindications

- An eGFR of less than 25 mL/min/1.73m<sup>2</sup>.
- Serum potassium level greater than 5.0 mmol/L.
- Severe hepatic impairment.
- Addison's disease
- Finerenone should not be used during pregnancy unless there has been careful consideration of the benefit for the mother and the risk to the foetus

### Drug Interactions

Finerenone should not be taken concomitantly with

- Grapefruit or grapefruit juice
  - Strong CYP3A4 inhibitors (i.e., clarithromycin, ritonavir, itraconazole)
- Strong CYP3A4 inducers (i.e., rifampicin, carbamazepine, phenytoin, phenobarbital, St John's Wort)

## 5. References (including any links to NICE Guidance etc.)

- 1) Bakris G, Agarwal R and Anker S et al. Effect of Finerenone on Chronic Kidney Disease Outcomes in Type 2 Diabetes. *N Engl J Med* 2020;383:2219–2229
- 2) NICE TA – Finerenone for treating CKD in type 2 diabetes. Technology appraisal guidance [TA877] Published: 23 March 2023
- 3) SPC for Kerendia 10 mg film-coated tablets. Last updated on 21MAR2023. Accessed via <https://www.medicines.org.uk/emc/product/13437/smpc#gref>
- 4) Pitt B, Filippatos G, Agarwal R, Anker SD, Bakris GL, Rossing P, et al. Cardiovascular events with Finerenone in kidney disease and type 2 diabetes. *New England Journal of Medicine*. 2021;385(24):2252–63.

**Documentation Controls** (these go at the end of the document but before any appendices)

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## 1. Appendices