

**Finerenon** (new therapeutic indication: chronic kidney disease in type 2 diabetes, stages 1 and 2 with albuminuria)

Resolution of: 17 August 2023/ 16 November 2023 Valid until: unlimited Entry into force on: 17 August 2023/ 16 November 2023
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### Therapeutic indication (according to the marketing authorisation of 6 February 2023):

Kerendia is indicated for the treatment of chronic kidney disease (with albuminuria) associated with type 2 diabetes in adults.

### Therapeutic indication of the resolution (resolution of 17 August 2023):

Kerendia is indicated for the treatment of chronic kidney disease (stages 1 and 2 with albuminuria) associated with type 2 diabetes in adults.

# 1. Additional benefit of the medicinal product in relation to the appropriate comparator therapy

Adults with chronic kidney disease (stages 1 and 2 with albuminuria) associated with type 2 diabetes

### **Appropriate comparator therapy:**

An optimised standard therapy for the treatment of chronic kidney disease and type 2 diabetes mellitus, taking into account the underlying disease(s) and common comorbidities (such as dyslipoproteinaemia, hypertension, anaemia, heart failure).

Extent and probability of the additional benefit of finerenone compared to the appropriate comparator therapy:

Hint for a non-quantifiable additional benefit

### Study results according to endpoints:1

Adults with chronic kidney disease (stages 1 and 2 with albuminuria) associated with type 2 diabetes

<sup>&</sup>lt;sup>1</sup> Data from the dossier assessment of the IQWiG (A23-14) and from the addendum (A23-69), unless otherwise indicated.

### Summary of results for relevant clinical endpoints

Endpoint category	Direction of effect/ risk of bias	Summary
Mortality	$\uparrow$	Advantage in overall mortality
Morbidity	<b>↑</b>	Advantages in case of renal failure and confirmed deterioration of CKD to stage 4 or 5
Health-related quality	$\leftrightarrow$	No relevant differences for the benefit
of life		assessment
Side effects	n.a.	There are no assessable data.

### **Explanations:**

↑: statistically significant and relevant positive effect with low/unclear reliability of data

↓: statistically significant and relevant negative effect with low/unclear reliability of data

个个: statistically significant and relevant positive effect with high reliability of data

 $\downarrow \downarrow$ : statistically significant and relevant negative effect with high reliability of data

 $\leftrightarrow$ : no statistically significant or relevant difference

 $\varnothing$ : There are no usable data for the benefit assessment.

n.a.: not assessable

**FIDELIO-DKD and FIGARO-DKD studies**: Finerenone vs placebo (each in addition to optimised standard therapy<sup>2</sup>)

### Mortality

Endpoint category Endpoint	Fi	nerenone		Placebo	Finerenone vs placebo
Study	N	Median time to event in months [95% CI] Patients with event n (%)	N	Median time to event in months [95% CI] Patients with event n (%)	HR [95% CI]; p value <sup>a</sup>
Overall mortality					
FIDELIO-DKD	211	n.r. 17 (8.1)	221	n.r. 14 (6.3)	1.28 [0.63; 2.60]; 0.490
FIGARO-DKD	2,327	n.r. 166 (7.1)	2,304	n.r. 211 (9.2)	0.77 [0.63; 0.95] 0.013
Total <sup>b</sup>					0.80 [0.66; 0.98]; 0.029

<sup>2</sup> Patient-individual standard therapy according to local guidelines for the treatment of both kidney disease and other comorbidities such as cardiovascular disease or type 2 diabetes mellitus

### Morbidity

Endpoint category Endpoint		Finerenone		Placebo	Finerenone vs placebo
Study	N	Median time to event in months [95% CI] Patients with event n (%)	N	Median time to event in months [95% CI] Patients with event n (%)	HR [95% CI]; p value <sup>a</sup>
Renal morbidity with eGFR	decrease	e ≥ 57% (composite e	ndpoint	t) (presented additio	nally)
FIDELIO-DKD	211	n.r. 7 (3.3)	221	n.r. 16 (7.2)	0.43 [0.18; 1.05] 0.056
FIGARO-DKD	2,327	61.90 [n.c.] 73 (3.1)	2,30 4	n.r. 108 (4.7)	0.66 [0.49; 0.89] 0.006
Total <sup>b</sup>					0.63 [0.48; 0.84]; 0.001
Kidney failure <sup>c, d</sup>					
FIDELIO-DKD	211	n.r. 2 (0.9)	221	n.r. 8 (3.6)	0.25 [0.05; 1.20] 0.062
FIGARO-DKD	2,327	n.r. 22 (0.9)	2,30 4	n.r. 38 (1.6)	0.57 [0.34; 0.96] 0.032
Total <sup>b</sup>					0.52 [0.32; 0.85]; 0.008
Persistent decrease in	eGFR to	< 15 ml/min/1.73 m <sup>2</sup>	С		
FIDELIO-DKD	211	n.r. 1 (0.5)	221	n.r. 6 (2.7)	0.17 [0.02; 1.43] 0.064
FIGARO-DKD	2,327	n.r. 12 (0.5)	2,30 4	n.r. 21 (0.9)	0.56 [0.27; 1.13] 0.102
Total <sup>b</sup>					0.48 [0.25; 0.93]; 0.026
ESRD <sup>c, e</sup>					
FIDELIO-DKD	211	n.r. 1 (0.5)	221	n.r. 5 (2.3)	0.21 [0.02; 1.81] 0.118
FIGARO-DKD	2,327	n.r. 17 (0.7)	2,30 4	n.r. 34 (1.5)	0.49 [0.27; 0.87] 0.013
Total <sup>b</sup>					0.46 [0.26; 0.80]; 0.005
eGFR decrease ≥ 57% <sup>c</sup> (p	resented	additionally)			
FIDELIO-DKD	211	n.r. 6 (2.8)	221	n.r. 16 (7.2)	0.37 [0.14; 0.95] 0.031
FIGARO-DKD	2,327	n.r. 69 (3.0)	2,30 4	n.r. 97 (4.2)	0.70 [0.51; 0.95] 0.021
Total <sup>b</sup>					0.65 [0.48; 0.87]; 0.004

Endpoint category Endpoint	Finerenone			Placebo	Finerenone vs placebo
Study	N	Median time to event in months [95% CI] Patients with event n (%)	N	Median time to event in months [95% CI] Patients with event n (%)	HR [95% CI]; p value <sup>a</sup>
Renal death <sup>c</sup> (presented	additiona	·lly)			
FIDELIO-DKD	211	n.r. 0 (0)	221	n.r. 0 (0)	n.c.
FIGARO-DKD	2,327	n.r. 0 (0)	2,30 4	n.r. 1 (< 0.1)	0.00 [0.00; n.d.]; 0.365
Total <sup>b</sup>					-
Confirmed deterioration o	f CKD to s	tage 4 or 5°			
FIDELIO-DKD	211	n.r. 11 (5.2)	221	n.r. 18 (8.1)	0.62 [0.29; 1.31] 0.204
FIGARO-DKD	2,327	n.r. 56 (2.4)	2,30 4	n.r. 79 (3.4)	0.69 [0.49; 0.97]; 0.031
Total <sup>b</sup>					0.67 [0.49; 0.91]; 0.011
Cardiovascular morbidity (	composite	e endpoint <sup>g</sup> ) (present	ted addi	tionally)	
FIDELIO-DKD	211	n.r. 34 (16.1)	221	n.r. 33 (14.9)	1.08 [0.67; 1.75] 0.740
FIGARO-DKD	2,327	n.r. 263 (11.3)	2,30 4	n.r. 291 (12.6)	0.89 [0.75; 1.05] 0.169
Totalb					0.91 [0.78; 1.06]; 0.238
Cardiovascular death <sup>c</sup>					
FIDELIO-DKD	211	n.r. 13 (6.2)	221	n.r. 12 (5.4)	1.15 [0.52; 2.52] 0.729
FIGARO-DKD	2,327	<i>n.r.</i> 105 (4.5)	2,30 4	n.r. 124 (5.4)	0.83 [0.64; 1.08]; 0.166
Total <sup>b</sup>					0.86 [0.67; 1.10]; 0.225
Non-fatal myocardial inf	farction <sup>c</sup>				
FIDELIO-DKD	211	n.r. 8 (3.8)	221	n.r. 9 (4.1)	0.93 [0.36; 2.41] 0.876
FIGARO-DKD	2,327	n.r. 55 (2.4)	2,30 4	n.r. 49 (2.1)	1.11 [0.75; 1.63] 0.599
Total <sup>b</sup>					1.10 [0.77; 1.57]; 0.608
Non-fatal stroke <sup>c</sup>					
FIDELIO-DKD	211	n.r. 8 (3.8)	221	n.r. 11 (5.0)	0.77 [0.31; 1.91] 0.572

Endpoint category Endpoint		Finerenone		Placebo	Finerenone vs placebo		
Study	Z	Median time to event in months [95% CI] Patients with event n (%)	N	Median time to event in months [95% CI] Patients with event n (%)	HR [95% CI]; p value <sup>a</sup>		
FIGARO-DKD	2,327	n.r. 76 (3.3)	2,30 4	n.r. 65 (2.8)	1.15 [0.83; 1.61] 0.400		
Total <sup>b</sup>					1.11 [0.81; 1.51]; 0.514		
Severe heart failure ever	its (opera	tionalised as hospita	lisation	due to heart failure)	С		
FIDELIO-DKD	211	n.r. 9 (4.3)	221	n.r. 13 (5.9)	0.72 [0.31; 1.68] 0.442		
FIGARO-DKD	2,327	n.r. 59 (2.5)	2,30 4	n.r. 91 (3.9)	0.64 [0.46; 0.89]; 0.008		
Total <sup>b</sup>					0.65 [0.48; 0.88]; 0.005		
Serious cardiovascular eve	nts (prese	nted additionally) <sup>g</sup>					
FIDELIO-DKD	211	n.d. <sup>h</sup>	221	n.d. <sup>h</sup>	n.d.		
FIGARO-DKD	2,327	n.d. <sup>h</sup>	2,30 4	n.d. <sup>h</sup>	n.d.		
Total <sup>d</sup>					0.99 [0.86; 1.13]; 0.839		
Total hospitalisation	Total hospitalisation						
FIDELIO-DKD	211	47.43 [n. c.] 87 (41.2)	221	45.83 [n. c.] 94 (42.5)	0.94 [0.70; 1.26] 0.662		
FIGARO-DKD	2,327	n.r. 903 (38.8)	2,30 4	57.10 [n. c.] 918 (39.8)	0.97 [0.88; 1.06] 0.506		
Total <sup>b</sup>					0.97 [0.78; 1.20]; 0.758		

Study Endpoint category	Finerenone				Plac	Finerenone vs placebo	
Endpoint	Ni	Values at start of study MV (SD)	Mean change in the course of the study MV <sup>i</sup> [95% CI]	Ni	Values at start of study MV (SD)	Mean change in the course of study MV <sup>i</sup> [95% CI]	MD [95% CI]; p value <sup>j</sup>
Health status (EQ-5D VAS) <sup>k</sup>							
FIDELIO-DKD	194	74.6 (16.2)	0.12 [-2.22; 2.45]	205	75.0 (16.5)	0.04 [-2.10; 2.19]	0.07 [-2.28; 2.43] 0.952
FIGARO-DKD	2,15 1	73.1 (16.9)	0.43 [-0.26; 1.12]	2,13 3	74.4 (16.5)	0.41 [-0.30; 1.12]	0.02 [-0.72; 0.77] 0.956
Total <sup>m</sup>							0.10 [-0.57; 0.77]; 0.766

## Health-related quality of life

Study Endpoint category		Finerenone			Plac	cebo	Finerenone vs placebo
Endpoint	Ni	Values at start of study MV (SD)	Mean change in the course of study MV <sup>j</sup> [95% CI]	Ni	Values at start of study MV (SD)	Mean change in the course of study MV <sup>i</sup> [95% CI]	MD [95% CI]; p value <sup>j</sup>
KDQOL-36 <sup>l</sup>							
PCS							
FIDELIO-DKD	193	43.4 (9.9)	-0.44 [-1.68; 0.81]	202	43.6 (9.9)	-2.24 [-3.59; -0.89]	1.80 [0.37; 3.24] 0.014
FIGARO-DKD	2,13 7	43.4 (9.8)	-1.25 [-1.66; -0.84]	2,12 2	43.7 (9.8)	-1.24 [-1.66; -0.82]	-0.01 [-0.45; 0.43]; 0.964
Total <sup>m</sup>							0.13 [-0.26; 0.52]; 0.509
MCS							
FIDELIO-DKD	193	51.3 (9.4)	-0.28 [-1.67; 1.12]	202	52.8 (9.3)	-1.37 [-2.72; -0.01]	1.09 [-0.36; 2.55]; 0.141
FIGARO-DKD	2,13 7	50.8 (10.0)	-0.37 [-0.81; 0.06]	2,12 2	51.0 (9.8)	-0.32 [-0.76; 0.13]	-0.06 [-0.53; 0.41]; 0.804
Total <sup>m</sup>							0.04 [-0.38; 0.46]; 0.855
Disease burden o	Disease burden of kidney disease						
FIDELIO-DKD	194	75.2 (25.9)	4.24 [1.11; 7.37]	205	76.2 (25.1)	2.88 [-0.49; 6.24]	1.37 [-2.05; 4.78]; 0.432
FIGARO-DKD	2,14 8	75.4 (26.2)	1.47 [0.38; 2.55]	2,12 8	76.1 (25.1)	0.95 [-0.15; 2.05]	0.51 [-0.63; 1.66]; 0.381
Total <sup>m</sup>							0.60 [-0.49; 1.68]; 0.281 <sup>n</sup>

Study Endpoint category	Finerenone				Plac	Finerenone vs placebo	
Endpoint	Ni	Values at start of study MV (SD)	Mean change in the course of study MV <sup>i</sup> [95% CI]	Ni	Values at start of study MV (SD)	Mean change in the course of study MV <sup>i</sup> [95% CI]	MD [95% CI]; p value <sup>j</sup>
Symptoms and problems of kidney disease							
FIDELIO-DKD	194	82.6 (15.4)	-0.19 [-1.82; 1.45]	205	84.5 (13.6)	-2.25 [-3.97; -0.53]	2.06 [0.24; 3.88]; 0.027
FIGARO-DKD	2,15 1	83.1 (15.6)	-1.01 [-1.61; -0.42]	2,13 3	83.9 (15.0)	-1.04 [-1.63; -0.44]	0.02 [-0.61; 0.65]; 0.944
Total <sup>m</sup>							0.16 [-0.41; 0.73]; 0.586
Effects of kidney	disease	e on daily l	ife				
FIDELIO-DKD	194	87.5 (14.5)	0.62 [-1.11; 2.34]	205	88.7 (14.3)	-1.72 [-3.62; 0.18]	2.34 [0.36; 4.31]; 0.021
FIGARO-DKD	2,14 3	87.2 (15.9)	0.46 [-0.18; 1.10]	2,12 8	87.4 (15.4)	-0.05 [-0.72; 0.61]	0.52 [-0.17; 1.20]; 0.139
Total <sup>m</sup>							0.34 [-0.28; 0.96]; 0.288

- a. HR [95% CI] for the individual studies from Cox regression model, stratified by region, and for the FIGARO-DKD study, additionally by UACR at the time of screening and cardiovascular history; p value: Log-rank test stratified by the same factors
- b. Calculation from IPD meta-analysis with study factor as fixed effect (for model, see footnote "a"); stratified by region, UACR at time of screening and cardiovascular history
- c. The presentation of the individual components does not include the qualifying events, but all events that occurred during the study.
- d. Renal failure was defined as the occurrence of ESRD or an eGFR < 15 ml/min/1.73 m², confirmed by a 2nd measurement ≥ 4 weeks after the 1st measurement.
- e. An ESRD was defined according to Module 4 B as:
  - Kidney transplant
  - Peritoneal or haemodialysis required for at least 30 days and for which it is not apparent that treatment can be stopped after 90 days.
  - Acute kidney damage leading to dialysis or death and occurring during dialysis treatment
  - Renal replacement therapy indicated for symptomatic uraemia (eGFR of < 15 ml/min/1.73m2 for at least 30 days) or asymptomatic uraemia (eGFR of < 8 ml/min/1.73m2) but not available or accessible, rejected or considered futile; ESRD is then diagnosed even without initiation of renal replacement therapy.</li>
- f. A death was classified as renal if the patient dies and has not received clinically indicated renal replacement therapy and there is no other probable cause of death.
- g. Composite endpoint consisting of hospitalisation due to heart failure, other cardiovascular hospitalisation (unstable angina pectoris, arrhythmias, peripheral artery occlusive disease) or adjudicated cardiovascular event associated with hospitalisation (cardiovascular death, new onset of atrial fibrillation or flutter, non-fatal myocardial infarction, non-fatal stroke, transient ischaemic attack)
- h. In the IPD meta-analysis, 428 (16.9%) patients in the intervention arm and 430 (17.0%) patients in the comparator arm had an event.
- i. Number of patients who were taken into account in the evaluation for calculating the effect estimate; the values at start of study can be based on other patient numbers.
- j. Changes and mean difference of the individual studies: MMRM with the covariates treatment group, region, eGFR at the time of screening, time, interaction between treatment and time, baseline value and interaction between baseline value and time, and for the FIDELIO-DKD study, additionally the covariate UACR at the time of screening or for the FIGARO-DKD study, additionally the covariate history of cardiovascular disease

Study Endpoint category	Finerenone			Placebo			Finerenone vs placebo
Endpoint	Ni	Values at start of study MV (SD)	Mean change in the course of study MV <sup>i</sup> [95% CI]	N <sup>i</sup>	Values at start of study MV (SD)	Mean change in the course of study MV <sup>i</sup> [95% CI]	MD [95% CI]; p value <sup>i</sup>

- k. Higher (increasing) values mean better symptomatology; positive effects (intervention minus control) mean an advantage for the intervention (scale range 0 to 100).
- I. Higher (increasing) values mean better symptomatology/ health-related quality of life; positive effects (intervention minus control) mean an advantage for the intervention (scale range: PCS 13 to 69 points; MCS 10 to 70 points; kidney disease burden, symptoms and problems of kidney disease, and impact of kidney disease on daily life each 0 to 100 points).
- m. Calculation from IPD meta-analysis: MMRM with covariates study, treatment group, region, eGFR at time of screening, UACR at time of screening, history of cardiovascular disease, time, interaction between treatment and time, baseline value and interaction between baseline value and time.
- n. Own calculation from aggregated data. Results from IPD meta-analysis are not available.
- o. Decrease in eGFR by  $\geq$  25% to < 30 ml/min/1.73 m² or to < 15 ml/min/1.73m² compared to baseline, which had to be confirmed in a 2nd measurement,  $\geq$  4 weeks after the 1st measurement

#### Abbreviations used:

eGFR: estimated glomular filtration rate; ESRD: end-stage renal disease; HR: hazard ratio; IPD: individual patient data; KDQOL: Kidney Disease Quality of Life; CI: confidence interval; MCS: mental component summary score; MD: mean difference; MMRM: mixed model for repeated measures; MV: mean value; n: number of patients with (at least 1) event; N: Number of patients evaluated; n.c.: not calculable; n.r. = not reached; PCS: physical component summary score; RCT: randomised controlled trial; SD: standard deviation; SMD: standardised mean difference; UACR: urine albumin-creatinine ratio; VAS: visual analogue scale

### Side effects

No suitable data available.

### 2. Number of patients or demarcation of patient groups eligible for treatment

Adults with chronic kidney disease (stages 1 and 2 with albuminuria) associated with type 2 diabetes

approx. 436,400 - 493,750 patients

### 3. Requirements for a quality-assured application

The requirements in the product information are to be taken into account. The European Medicines Agency (EMA) provides the contents of the product information (summary of product characteristics, SmPC) for Kerendia (active ingredient: finerenone) at the following publicly accessible link (last access: 27 April 2023):

https://www.ema.europa.eu/en/documents/product-information/kerendia-epar-product-information en.pdf

No patients with symptomatic chronic heart failure with reduced left ventricular ejection fraction (HFrEF; NYHA stages II to IV) were studied.

#### 4. Treatment costs

### Annual treatment costs:

Adults with chronic kidney disease (stages 1 and 2 with albuminuria) associated with type 2 diabetes

Designation of the therapy	Annual treatment costs/ patient
Medicinal product to be assessed:	
Finerenone	€ 1,195.71
+ optimised standard therapy	Different from patient to patient
Appropriate comparator therapy:	
Optimised standard therapy	Different from patient to patient

Costs after deduction of statutory rebates (LAUER-TAXE®) as last revised: 1 July 2023)

Costs for additionally required SHI services: not applicable

Medicinal products with new active ingredients according to Section 35a, paragraph 3, sentence 4 SGB V that can be used in a combination therapy with the assessed medicinal product

In the context of the designation of medicinal products with new active ingredients pursuant to Section 35a, paragraph 3, sentence 4 SGB V, the following findings are made:

Adults with chronic kidney disease (stages 3 and 4 with albuminuria) associated with type 2 diabetes

No medicinal product with new active ingredients that can be used in a combination therapy that fulfils the requirements of Section 35a, paragraph 3, sentence 4 SGB V.

The designation of combinations exclusively serves the implementation of the combination discount according to Section 130e SGB V between health insurance funds and pharmaceutical companies. The findings made neither restrict the scope of treatment required to fulfil the medical treatment mandate, nor do they make statements about expediency or economic feasibility.