

## **bempedoic acid**

Resolution of: 15 April 2021  
Entry into force on: 15 April 2021  
BANz AT 10.05.2021 B2

valid until: unlimited

### **Therapeutic indication (according to the marketing authorisation of 1 April 2020):**

Nilemdo is indicated in adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia, in addition to diet:

- in combination with a statin or a statin together with other lipid-lowering therapies in patients unable to reach LDL-C goals with the maximum tolerated statin dose (see sections 4.2, 4.3 and 4.4)

or

- alone or in combination with other lipid-lowering therapies in patients who are statin-intolerant or for whom a statin is contraindicated.

### **Therapeutic indication of the resolution (resolution from the 15 April 2021):**

see therapeutic indication according to marketing authorisation.

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

- a) Adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia who have not yet exhausted medicinal and dietary options to reduce lipid levels

### **Appropriate comparator therapy:**

- Maximum tolerated medicinal therapy according to the doctor's instructions, taking into account statins, cholesterol absorption inhibitors and anion exchangers

### **Extent and probability of the additional benefit of bempedoic acid compared to the appropriate comparator therapy:**

An additional benefit is not proven.

- b) Adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia who have already exhausted medicinal (except evolocumab) and dietary options to reduce lipid levels

### **Appropriate comparator therapy:**

- Evolocumab<sup>1</sup> or LDL apheresis (as a "ultima ratio" for therapy-refractory courses), if

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<sup>1</sup> The requirements regarding the prescription restriction of the Pharmaceutical Directive (AM-RL) Annex III must be considered.

necessary with concomitant medicinal-based lipid-lowering therapy.

**Extent and probability of the additional benefit of bempedoic acid compared to the appropriate comparator therapy:**

An additional benefit is not proven.

**Study results according to endpoints:<sup>2</sup>**

- a) Adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia who have not yet exhausted medicinal and dietary options to reduce lipid levels

There are no relevant data in comparison with the appropriate comparator therapy that can be assessed.

**Summary of results for relevant clinical endpoints**

Endpoint category	Direction of effect/ Risk of bias	Summary
Mortality	n.a.	No relevant data submitted.
Morbidity	n.a.	No relevant data submitted.
Health-related quality of life	n.a.	No relevant data submitted.
Side effects	n.a.	No relevant data submitted.
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 ↑↑: statistically significant and relevant positive effect with high reliability of data ↓↓: statistically significant and relevant negative effect with high reliability of data ↔: no statistically significant or relevant difference ∅: There are no usable data for the benefit assessment. n.a.: not assessable		

- b) Adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia who have already exhausted medicinal (except evolocumab) and dietary options to reduce lipid levels

There are no data in comparison with the appropriate comparator therapy.

**Summary of results for relevant clinical endpoints**

Endpoint category	Direction of effect/ Risk of bias	Summary
Mortality	∅	No data on benefit assessment are available.

<sup>2</sup> Data from the dossier assessment of the Institute for Quality and Efficiency in Health Care (IQWiG) (A20-92) unless otherwise indicated.

Morbidity	∅	No data on benefit assessment are available.
Health-related quality of life	∅	No data on benefit assessment are available.
Side effects	∅	No data on benefit assessment are available.
<p>Explanations:</p> <p>↑: statistically significant and relevant positive effect with low/unclear reliability of data</p> <p>↓: statistically significant and relevant negative effect with low/unclear reliability of data</p> <p>↑↑: statistically significant and relevant positive effect with high reliability of data</p> <p>↓↓: statistically significant and relevant negative effect with high reliability of data</p> <p>↔: no statistically significant or relevant difference</p> <p>∅: There are no usable data for the benefit assessment.</p> <p>n.a.: not assessable</p>		

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

- a) Adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia who have not yet exhausted medicinal and dietary options to reduce lipid levels
- approx. 271 750 patients
- b) Adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia who have already exhausted medicinal (except evolocumab) and dietary options to reduce lipid levels
- approx. 13 000 to 15 000 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 Nilemdo (active ingredient: bempedoic acid at the following publicly accessible link (last access: 11 March 2021):

[https://www.ema.europa.eu/en/documents/product-information/nilemdo-epar-product-information\\_de.pdf](https://www.ema.europa.eu/en/documents/product-information/nilemdo-epar-product-information_de.pdf)

The prescription restrictions for lipid-lowering agents in accordance with the Pharmaceutical Directive Annex III No. 35 must be taken into account.

#### 4. Treatment costs

##### Annual treatment costs:

- a) Adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia who have not yet exhausted medicinal and dietary options to reduce lipid levels

Designation of the therapy	Annual treatment costs/patient
<b>Medicinal product to be assessed:</b>	
bempedoic acid as monotherapy	€ 1,659.71
Simvastatin <sup>3 4</sup>	€ 52.78 – € 68.77
Colesevelam	€ 2,346.22
Cholestyramine	€ 1,051.42
Ezetimibe	€ 149.43
Bempedoic acid in combination with other lipid-lowering therapies (including statin)	Total:
Bempedoic acid + simvastatin <sup>3 4</sup>	€ 1,712.49 – € 1,728.47
Bempedoic acid+ simvastatin <sup>3, 4</sup> + ezetimibe	€ 1,861.92 – € 1,877.90
Bempedoic acid + simvastatin <sup>3, 4</sup> + colesevelam	€ 4,058.71 – € 4,074.69
Bempedoic acid + simvastatin <sup>3 4</sup> + cholestyramine	€ 2,763.91 – € 2,779.89
Bempedoic acid + simvastatin <sup>3, 4</sup> + colesevelam + ezetimibe	€ 4,208.14 – € 4,224.12
Bempedoic acid+ simvastatin <sup>3, 4</sup> + cholestyramine + ezetimibe	€ 2,913.34 – € 2,929.32
Bempedoic acid in combination with other lipid-lowering therapies (except statin)	Total:
Bempedoic acid + ezetimibe	€ 1,809.14
Bempedoic acid + colesevelam	€ 4,005.93
Bempedoic acid + cholestyramine	€ 2,711.13
Bempedoic acid + colesevelam + ezetimibe	€ 4,155.36
Bempedoic acid+ cholestyramine + ezetimibe	€ 2,860.56
<b>Appropriate comparator therapy:</b>	
Monotherapy	
Simvastatin <sup>3 5</sup>	€ 68.77 – € 98.19
Colesevelam	€ 2,346.22
Cholestyramine	€ 1,051.42

<sup>3</sup> Simvastatin is shown as example for the statin group

<sup>4</sup> Simvastatin is presented in the daily dose range of 20 mg to 40 mg, since, according to the product information for bempedoic acid, the combination therapy with simvastatin specifies a maximum dose of 40 mg simvastatin

<sup>5</sup> Simvastatin is presented in the daily dosage range of 40 mg to 80 mg

Ezetimibe	€ 149.43
Combination therapy	Total:
Simvastatin <sup>3, 5</sup> + ezetimibe	€ 218.20 – € 247.62
Simvastatin <sup>3, 5</sup> + colesvelam	€ 2,414.99 – € 2,444.41
Simvastatin <sup>3, 5</sup> + cholestyramine	€ 1,120.19 – € 1,149.60
Simvastatin <sup>3, 5</sup> + colesvelam + ezetimibe	€ 2,564.42 – € 2,593.84
Simvastatin <sup>3, 5</sup> + cholestyramine + ezetimibe	€ 1,269.62 – € 1,299.03
Ezetimibe + colesvelam	€ 2,495.65
Ezetimibe + cholestyramine	€ 1,200.85

Costs after deduction of statutory rebates (LAUER-TAXE®, as last revised: 15 March 2021).

- b) Adults with primary hypercholesterolaemia (heterozygous familial and non-familial) or mixed dyslipidaemia who have already exhausted medicinal (except evolocumab) and dietary options to reduce lipid levels

Designation of the therapy	Annual treatment costs/patient
Medicinal product to be assessed:	
bempedoic acid as monotherapy	€ 1,659.71
Simvastatin <sup>3, 4</sup>	€ 52.78 – € 68.77
Colesvelam	€ 2,346.22
Ezetimibe	€ 149.43
Cholestyramine	€ 1,051.42
LDL apheresis	€ 23,118.86 – € 67,459.60
Bempedoic acid + LDL apheresis	€ 24,778.57 – € 69,119.31
Bempedoic acid in combination with other lipid-lowering therapies (including statin) including LDL apheresis	Total:
Bempedoic acid + simvastatin <sup>3, 4</sup> + LDL apheresis	€ 24,831.35 – € 69,188.07
Bempedoic acid + simvastatin <sup>3, 4</sup> + ezetimibe + LDL apheresis	€ 24,980.78 – € 69,337.50
Bempedoic acid + simvastatin <sup>3, 4</sup> + colesvelam + LDL apheresis	€ 27,177.57 – € 71,534.29
Bempedoic acid + simvastatin <sup>3, 4</sup> + cholestyramine + LDL apheresis	€ 25,882.77 – € 70,239.49
Bempedoic acid + simvastatin <sup>3, 4</sup> + ezetimibe + colesvelam + LDL apheresis	€ 27,327.00 – € 71,683.72
Bempedoic acid + Simvastatin <sup>3, 4</sup> + ezetimibe + cholestyramine + LDL apheresis	€ 26,032.20 – € 70,388.92
Bempedoic acid in combination with other lipid-lowering therapies (excluding statin) including LDL apheresis	Total
Bempedoic acid + ezetimibe + LDL apheresis	€ 24,928.00 – € 69,268.74

Bempedoic acid + colessevelam + LDL apheresis	€ 27,124.79 – € 71,465.53
Bempedoic acid + cholestyramine + LDL apheresis	€ 25,829.99 – € 70,170.73
Bempedoic acid + ezetimibe + colessevelam + LDL apheresis	€ 27,274.22 – € 71,614.96
Bempedoic acid + ezetimibe + cholestyramine + LDL apheresis	€ 25,979.42 – € 70,320.16
Appropriate comparator therapy:	
Evolocumab as monotherapy	€ 5,885.99 – € 6,345.47
LDL apheresis	€ 23,118.86 – € 67,459.60
Evolocumab if applicable + accompanying medicinal lipid-lowering therapy (including statin)	Total:
Evolocumab if applicable + simvastatin <sup>3, 5</sup>	€ 5,954.75 – € 6,443.66
Evolocumab if applicable + simvastatin <sup>3, 5</sup> + ezetimibe	€ 6,104.18 – € 6,593.09
Evolocumab if applicable + simvastatin <sup>3, 5</sup> + colessevelam	€ 8,300.97 – € 8,789.88
Evolocumab if applicable + simvastatin <sup>3, 5</sup> + cholestyramine	€ 7,006.17 – € 7,495.08
Evolocumab if applicable + simvastatin <sup>3, 5</sup> + ezetimibe + colessevelam	€ 8,450.40 – € 8,939.31
Evolocumab if applicable + simvastatin <sup>3, 5</sup> + ezetimibe + cholestyramine	€ 7,155.60 – € 7,644.51
Evolocumab if applicable + Accompanying medicinal lipid-lowering therapy (except with statin)	Total:
Evolocumab if applicable + ezetimibe	€ 6,035.42 – € 6,494.90
Evolocumab if applicable + colessevelam	€ 8,232.21 – € 8,691.69
Evolocumab if applicable + cholestyramine	€ 6,937.40 – € 7,396.89
Evolocumab if applicable + ezetimibe + colessevelam	€ 8,381.64 – € 8,841.12
Evolocumab if applicable + ezetimibe + cholestyramine	€ 7,086.84 – € 7,546.32
LDL apheresis if necessary + accompanying medication-based lipid-lowering therapy (including statin)	Total:
LDL apheresis if necessary + simvastatin <sup>3, 5</sup>	€ 23,187.63 – € 67,557.79
LDL apheresis if necessary + simvastatin <sup>3, 5</sup> + ezetimibe	€ 23,337.06 – € 67,707.22
LDL apheresis if necessary + simvastatin <sup>3, 5</sup> + colessevelam	€ 25,533.85 – € 69,904.01
LDL apheresis if necessary + simvastatin <sup>3, 5</sup> + cholestyramine	€ 24,239.05 – € 68,609.20
LDL apheresis if necessary + simvastatin <sup>3, 5</sup> + ezetimibe + colessevelam	€ 25,683.28 – € 70,053.44
LDL apheresis if necessary + simvastatin <sup>3, 5</sup> + ezetimibe + cholestyramine	€ 24,388.48 – € 68,758.64
LDL apheresis if necessary + accompanying medication-based lipid-lowering therapy (except statin)	Total:
LDL apheresis if necessary + ezetimibe	€ 23,268.29 – € 67,609.03

LDL apheresis if necessary + colesevelam	€ 25,465.08 – € 69,805.82
LDL apheresis if necessary + cholestyramine	€ 24,170.28 – € 68,511.02
LDL apheresis if necessary + ezetimibe + colesevelam	€ 25,614.51 – € 69,955.25
LDL apheresis if necessary + ezetimibe + cholestyramine	€ 24,319.71 – € 68,660.45

Costs after deduction of statutory rebates (LAUER-TAXE®, as last revised: 15 March 2021).

Costs for additionally required SHI services: not applicable