

# Resolution

of the Resolution of the Federal Joint Committee (G-BA) on  
an Amendment of the Pharmaceuticals Directive (AM-L):  
Annex XII - Benefit Assessment of Medicinal Products with  
New Active Ingredients according to Section 35a SGB V:  
Fenfluramine (Dravet syndrome,  $\geq 2$  years)

of 15 July 2021

At its session on 15 July 2021, the Federal Joint Committee (G-BA) resolved to amend the Pharmaceuticals Directive (AM-RL) in the version dated 18 December 2008/22 January 2009 (Federal Gazette, BAnz. No. 49a of 31 March 2009), as last amended on DD. Month YYYY (Federal Gazette, BAnz AT DD.MM.YYYY BX), as follows:

- I. Annex XII shall be amended in alphabetical order to include the active ingredient fenfluramine as follows:**

## **Fenfluramine**

Resolution of: 15 July 2021  
Entry into force on: 15 July 2021  
BAZ AT TT. MM YYYY Bx

### **Therapeutic indication (according to the marketing authorisation of 18 December 2020):**

Fintepla is indicated for the treatment of seizures associated with Dravet syndrome as an add-on therapy to other anti-epileptic medicines for patients 2 years of age and older.

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

see therapeutic indication according to marketing authorisation.

## **1. Extend of the additional benefit and significance of the evidence**

Fenfluramine is approved as a medicinal product for the treatment of rare diseases in accordance with Regulation (EC) No. 141/2000 of the European Parliament and the Council of 16 December 1999 on orphan drugs. In accordance with section 35a, paragraph 1, sentence 11, 1st half of the sentence German Social Code, Book Five (SGB V), the additional medical benefit is considered to be proven through the grant of the marketing authorisation.

The Federal Joint Committee (G-BA) determines the extent of the additional benefit for the number of patients and patient groups for which there is a therapeutically significant additional benefit in accordance with Chapter 5, Section 12, paragraph 1, number 1, sentence 2 of its Rules of Procedure (VerfO) in conjunction with Section 5, paragraph 8 AM-NutzenV, indicating the significance of the evidence. This quantification of the additional benefit is based on the criteria laid out in Chapter 5, Section 5, paragraph 7, numbers 1 to 4 of the Rules of Procedure (VerfO).

### Patients 2 years of age and older with seizures associated with Dravet syndrome

#### **Extend of the additional benefit and significance of the evidence of fenfluramine:**

Hint of a considerable additional benefit

## Study results according to endpoints:<sup>1</sup>

Patients 2 years of age and older with seizures associated with Dravet syndrome

### Summary of results for relevant clinical endpoints

| Endpoint category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Direction of effect/<br>risk of bias | Summary                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mortality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ↔                                    | No deaths occurred.                                                                                                                                                                                                                                                            |
| Morbidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ↑                                    | Benefits in reducing seizures and improving health status                                                                                                                                                                                                                      |
| Health-related quality of life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ↔                                    | No relevant difference for the benefit assessment                                                                                                                                                                                                                              |
| Side effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ↔                                    | For Serious Adverse Events (SAE) and Adverse Events of Special Interest (AESI): No relevant difference for the benefit assessment;<br>For severe adverse events (severe AEs) and adverse events that led to discontinuation of study medication: There are no assessable data. |
| Explanations:<br>↑ statistically significant and relevant positive effect with low/unclear reliability of data<br>↓ statistically significant and relevant negative effect with low/unclear reliability of data<br>↑↑ statistically significant and relevant positive effect with high reliability of data<br>↓↓ statistically significant and relevant negative effect with high reliability of data<br>↔ no statistically significant or relevant difference<br>∅: there are no usable data for the benefit assessment.<br>n.a.: not assessable |                                      |                                                                                                                                                                                                                                                                                |

Study 1: RCT 14 weeks.

Study 1504: RCT 15 weeks.

### Mortality

| Endpoint;                | Fenfluramine |                              | Placebo |                              | Fenfluramine vs placebo |
|--------------------------|--------------|------------------------------|---------|------------------------------|-------------------------|
|                          | N            | Patients with event<br>n (%) | N       | Patients with event<br>n (%) | Effect estimator        |
| <b>Overall mortality</b> |              |                              |         |                              |                         |
| Study 1                  | 40           | 0                            | 40      | 0                            | -                       |
| Study 1504               | 43           | 0                            | 44      | 0                            | -                       |

<sup>1</sup>Data from the dossier assessment of the G-BA (published on the 3 May 2021), unless otherwise indicated.

## Morbidity

| Endpoint;<br>Study                                              | Fenfluramine |                                                               |                                      | Placebo                             |                                                               |                                      | Fenfluramine vs placebo                          |                                                     |
|-----------------------------------------------------------------|--------------|---------------------------------------------------------------|--------------------------------------|-------------------------------------|---------------------------------------------------------------|--------------------------------------|--------------------------------------------------|-----------------------------------------------------|
|                                                                 | N            | MV (SD)                                                       | LS Mean Difference (SE) <sup>a</sup> | N                                   | MV (SD)                                                       | LS Mean Difference (SE) <sup>a</sup> | LS Mean Difference <sup>a</sup> [95% CI] p value | Percentage difference <sup>b</sup> [95% CI] p value |
| <b>Frequency of convulsive seizures (normalised to 28 days)</b> |              |                                                               |                                      |                                     |                                                               |                                      |                                                  |                                                     |
| Study 1                                                         | 40           | Baseline:<br>31.35<br>(30.56)<br><br>EoT:<br>18.24<br>(31.92) | 2.00<br>(0.12)                       | 40                                  | Baseline:<br>44.21<br>(40.18)<br><br>EoT:<br>37.50<br>(37.97) | 3.00<br>(0.12)                       | -0.98<br>[-1.30; -0.65]<br>< 0.001               | -62.29<br>[-72.80; -47.72]<br>< 0.001               |
| Study 1504                                                      | 43           | Baseline:<br>27.90<br>(36.94)<br><br>EoT:<br>24.72<br>(72.05) | 1.94<br>(0.13)                       | 44                                  | Baseline:<br>21.62<br>(27.65)<br><br>EoT:<br>20.97<br>(27.70) | 2.72<br>(0.13)                       | -0.78<br>[-1.12; -0.44]<br>< 0.001               | -54.04<br>[-67.23; -35.55]<br>< 0.001               |
| Endpoint;<br>Study                                              | Placebo      |                                                               | Fenfluramine                         |                                     | Placebo vs fenfluramine                                       |                                      |                                                  |                                                     |
|                                                                 | N            | Patients with event<br><i>n</i> (%)                           | N                                    | Patients with event<br><i>n</i> (%) | Relative Risk [95% CI];<br>p value                            |                                      |                                                  |                                                     |
| <b>Reduction in the frequency of convulsive seizures ≥ 25%</b>  |              |                                                               |                                      |                                     |                                                               |                                      |                                                  |                                                     |
| Study 1                                                         | 40           | 14 (35.0)                                                     | 40                                   | 36 (90.0)                           | 0.39 [0.25; 0.60]; < 0.0001                                   |                                      |                                                  |                                                     |
| Study 1504                                                      | 44           | 12 (27.3)                                                     | 43                                   | 30 (69.8)                           | 0.39 [0.23; 0.66]; 0.0004                                     |                                      |                                                  |                                                     |
| Meta-analysis                                                   |              |                                                               |                                      |                                     | 0.39 [0.28; 0.54]; < 0.0001                                   |                                      |                                                  |                                                     |
| <b>Reduction in the frequency of convulsive seizures ≥ 50%</b>  |              |                                                               |                                      |                                     |                                                               |                                      |                                                  |                                                     |
| Study 1                                                         | 40           | 5 (12.5)                                                      | 40                                   | 27 (67.5)                           | 0.19 [0.08; 0.44]; 0.0001                                     |                                      |                                                  |                                                     |
| Study 1504                                                      | 44           | 2 (4.5)                                                       | 43                                   | 23 (53.5)                           | 0.08 [0.02; 0.34]; 0.0004                                     |                                      |                                                  |                                                     |
| Meta-analysis                                                   |              |                                                               |                                      |                                     | 0.15 [0.07; 0.31]; 0.0001                                     |                                      |                                                  |                                                     |
| <b>Reduction in the frequency of convulsive seizures ≥ 75%</b>  |              |                                                               |                                      |                                     |                                                               |                                      |                                                  |                                                     |
| Study 1                                                         | 40           | 1 (2.5)                                                       | 40                                   | 20 (50.0)                           | 0.05 [0.01; 0.36]; 0.0028                                     |                                      |                                                  |                                                     |
| Study 1504                                                      | 44           | 1 (2.3)                                                       | 43                                   | 15 (34.9)                           | 0.06 [0.01; 0.47]; 0.0067                                     |                                      |                                                  |                                                     |

| Endpoint;<br>Study                                                  | Placebo                     |                              | Fenfluramine     |                              | Placebo vs fenfluramine            |                  |                |              |                                     |
|---------------------------------------------------------------------|-----------------------------|------------------------------|------------------|------------------------------|------------------------------------|------------------|----------------|--------------|-------------------------------------|
|                                                                     | N                           | Patients with event<br>n (%) | N                | Patients with event<br>n (%) | Relative Risk [95% CI];<br>p value |                  |                |              |                                     |
| Meta-analysis                                                       | 0.06 [0.01; 0.23]; < 0.0001 |                              |                  |                              |                                    |                  |                |              |                                     |
| <b>Reduction in the frequency of convulsive seizures ≥ 100%</b>     |                             |                              |                  |                              |                                    |                  |                |              |                                     |
| Study 1                                                             | 40                          | 3 (7.5)                      | 40               | 0                            | n.c                                |                  |                |              |                                     |
| Study 1504                                                          | 43                          | 1 (2.3)                      | 44               | 0                            | n.c                                |                  |                |              |                                     |
| Meta-analysis                                                       | n.c                         |                              |                  |                              |                                    |                  |                |              |                                     |
| Endpoint;<br>Study                                                  | Fenfluramine                |                              | Placebo          |                              | Fenfluramine vs placebo            |                  |                |              |                                     |
|                                                                     | N                           | Patients with event<br>n (%) | N                | Patients with event<br>n (%) | Relative Risk [95% CI];<br>p value |                  |                |              |                                     |
| <b>Reduction in the frequency of convulsive seizures &gt; 0%</b>    |                             |                              |                  |                              |                                    |                  |                |              |                                     |
| Study 1                                                             | 40                          | 3 (7.5)                      | 40               | 14 (35.0)                    | 0.21 [0.07; 0.68]; 0.0088          |                  |                |              |                                     |
| Study 1504                                                          | 43                          | 10 (23.3)                    | 44               | 21 (47.7)                    | 0.49 [0.26; 0.91]; 0.0236          |                  |                |              |                                     |
| Meta-analysis                                                       | 0.40 [0.23; 0.70]; 0.0012   |                              |                  |                              |                                    |                  |                |              |                                     |
| Endpoint;<br>Study                                                  | Fenfluramine                |                              |                  |                              | Placebo                            |                  |                |              | Fenfluramine vs placebo             |
|                                                                     | N                           | Baseline MV (SD)             | MV (SD)          | LS Mean (SE)                 | N                                  | Baseline MV (SD) | MV (SD)        | LS Mean (SE) | LS Mean Difference [95% CI] p value |
| <b>Frequency of non-convulsive seizures (normalised to 28 days)</b> |                             |                              |                  |                              |                                    |                  |                |              |                                     |
| Study 1                                                             | 24                          | 330.73 (756.43)              | -207.62 (499.90) | n. v.                        | 21                                 | 67.41 (87.42)    | 66.20 (419.59) | n. v.        | n. v. [n. v.]; 0.046                |

|                                                                                            |              |                               |                                  |                    |                               |                                  |                                       |                            |                                              |
|--------------------------------------------------------------------------------------------|--------------|-------------------------------|----------------------------------|--------------------|-------------------------------|----------------------------------|---------------------------------------|----------------------------|----------------------------------------------|
| Study 1504                                                                                 | 17           | 44.57<br>(74.80)              | 33.52<br>(90.97)                 | n. v.              | 22                            | 132.46<br>(485.24)               | -29.18<br>(113.94)                    | n. v.                      | n. v. [n. v.];<br>0.182                      |
| Endpoint;<br>Study                                                                         | Fenfluramine |                               |                                  |                    | Placebo                       |                                  |                                       |                            | Fenfluramine<br>vs placebo                   |
|                                                                                            | N            | Baseline<br>MV (SD)           | MV (SD)                          | LS<br>Mean<br>(SE) | N                             | Baseline<br>MV (SD)              | MV (SD)                               | LS<br>Mean<br>(SE)<br>(SE) | LS Mean<br>Difference<br>[95% CI]<br>p value |
| <b>Frequency of convulsive and non-convulsive seizures (total) (normalised to 28 days)</b> |              |                               |                                  |                    |                               |                                  |                                       |                            |                                              |
| Study 1                                                                                    | 40           | 229.79<br>(608.66)            | -137.65<br>(401.12)              | n. v.              | 40                            | 79.60<br>(86.06)                 | 30.38<br>(298.35)                     | n. v.                      | n. v. [n. v.];<br>< 0.001                    |
| Study 1504                                                                                 | 43           | 45.52<br>(62.40)              | 10.39<br>(76.74)                 | n. v.              | 44                            | 87.85<br>(344.77)                | -14.88<br>(80.73)                     | n. v.                      | n. v. [n. v.];<br>0.137                      |
| Endpoint;<br>Study                                                                         | Fenfluramine |                               |                                  |                    | Placebo                       |                                  |                                       |                            | Fenfluramine<br>vs placebo                   |
|                                                                                            | N            | Distribution of seizures<br>% |                                  | N                  | Distribution of seizures<br>% |                                  | [Effect estimator<br>95% CI]; p Value |                            |                                              |
|                                                                                            |              | Baseline                      | Treatment<br>period <sup>m</sup> |                    | Baseline                      | Treatment<br>period <sup>m</sup> |                                       |                            |                                              |
| <b>Duration of seizures</b>                                                                |              |                               |                                  |                    |                               |                                  |                                       |                            |                                              |
| Study 1<br>< 2 minutes<br>2– 10<br>minutes<br>> 10 minutes                                 | 40           | 71.6<br>24.2<br>4.2           | N = 39<br>72.3<br>22.9<br>4.8    | 40                 | 69.3<br>26.9<br>3.9           | 71.3<br>26.3<br>2.4              | n. d.                                 |                            |                                              |

|                                                          |                           |                                          |                                             |                                          |                                        |                                             |                                                 |
|----------------------------------------------------------|---------------------------|------------------------------------------|---------------------------------------------|------------------------------------------|----------------------------------------|---------------------------------------------|-------------------------------------------------|
| Study 1504<br>< 2 minutes                                | 43                        | 83.5                                     | N = 42<br>81.2                              | 44                                       | 76.6                                   | 78.1                                        | n. d.                                           |
| 2– 10<br>minutes                                         |                           | 15.9                                     | 17.1                                        |                                          | 22.1                                   | 20.6                                        |                                                 |
| > 10 minutes                                             |                           | 0.6                                      | 1.8                                         |                                          | 1.3                                    | 1.3                                         |                                                 |
|                                                          | <b>N</b>                  | <b>Patients with event<br/>n (%)</b>     |                                             | <b>N</b>                                 | <b>Patients with event<br/>n (%)</b>   |                                             |                                                 |
| <b>Status epilepticus (supplementary)</b>                |                           |                                          |                                             |                                          |                                        |                                             |                                                 |
| Study 1                                                  | 40                        | n. d.                                    | 14 (35.0)                                   | 40                                       | n. d.                                  | 11 (27.5)                                   | n. v. [n. v.]; 0.461                            |
| Study 1504                                               | 43                        | n. d.                                    | 14 (32.6)                                   | 44                                       | n. d.                                  | 8 (18.2)                                    | n. v. [n. v.]; 0.128                            |
| <b>Epilepsy-related hospitalisations (supplementary)</b> |                           |                                          |                                             |                                          |                                        |                                             |                                                 |
| Study 1                                                  | 40                        | n. d.                                    | 6 (15.0)                                    | 40                                       | n. d.                                  | 9 (22.5)                                    | n. v. [n. v.]; 0.568                            |
| Study 1504                                               | 43                        | n. d.                                    | 15 (34.9)                                   | 44                                       | n. d.                                  | 8 (29.5)                                    | n. v. [n. v.]; 0.651                            |
| <b>Endpoint;<br/>Study</b>                               | <b>Placebo</b>            |                                          | <b>Fenfluramine</b>                         |                                          | <b>Placebo vs fenfluramine</b>         |                                             |                                                 |
|                                                          | <b>N</b>                  | <b>Patients with<br/>event<br/>n (%)</b> | <b>N</b>                                    | <b>Patients with<br/>event<br/>n (%)</b> | <b>Relative Risk [95% CI]; p value</b> |                                             |                                                 |
| <b>CGI-I Improvement</b>                                 |                           |                                          |                                             |                                          |                                        |                                             |                                                 |
| Study 1                                                  | 40                        | 12 (30.0)                                | 40                                          | 26 (65.0)                                | 0.47 [0.28; 0.80]; 0.0049              |                                             |                                                 |
| Study 1504                                               | 44                        | 16 (36.4)                                | 43                                          | 26 (60.5)                                | 0.57 [0.36; 0.90]; 0.0156              |                                             |                                                 |
| Meta-<br>analysis                                        | 0.53 [0.37; 0.74]; 0.0002 |                                          |                                             |                                          |                                        |                                             |                                                 |
| <b>Endpoint;<br/>Study</b>                               | <b>Fenfluramine</b>       |                                          | <b>Placebo</b>                              |                                          | <b>Fenfluramine vs placebo</b>         |                                             |                                                 |
|                                                          | <b>N</b>                  | <b>Patients with<br/>event<br/>n (%)</b> | <b>N</b>                                    | <b>Patients with<br/>event<br/>n (%)</b> | <b>Relative Risk [95% CI]; p value</b> |                                             |                                                 |
| <b>CGI-I deterioration</b>                               |                           |                                          |                                             |                                          |                                        |                                             |                                                 |
| Study 1                                                  | 40                        | 5 (12.5)                                 | 40                                          | 10 (25.0)                                | 0.49 [0.18; 1.29]; 0.1478              |                                             |                                                 |
| Study 1504                                               | 43                        | 5 (11.6)                                 | 44                                          | 3 (6.8)                                  | 1.80 [0.46; 7.09]; 0.3982              |                                             |                                                 |
| Meta-<br>analysis <sup>6)</sup>                          | 0.76 [0.34; 1.68]; 0.4931 |                                          |                                             |                                          |                                        |                                             |                                                 |
| <b>Endpoint;<br/>Study</b>                               | <b>Fenfluramine</b>       |                                          |                                             | <b>Placebo</b>                           |                                        |                                             | <b>Fenfluramine<br/>vs placebo</b>              |
|                                                          | <b>N</b>                  | <b>Baseline<br/>MV (SD)</b>              | <b>Change from<br/>baseline<br/>MV (SD)</b> | <b>N</b>                                 | <b>Baseline<br/>MV (SD)</b>            | <b>Change from<br/>baseline<br/>MV (SD)</b> | <b>LS Mean Difference<br/>[95% CI]; p-value</b> |
| <b>BRIEF-P / BRIEF</b>                                   |                           |                                          |                                             |                                          |                                        |                                             |                                                 |
| <b>BRIEF-P - Global Executive Total Score (GEC)</b>      |                           |                                          |                                             |                                          |                                        |                                             |                                                 |

| Endpoint;<br>Study                                     | Fenfluramine |                     |                                    | Placebo |                     |                                    | Fenfluramine<br>vs placebo                                                |
|--------------------------------------------------------|--------------|---------------------|------------------------------------|---------|---------------------|------------------------------------|---------------------------------------------------------------------------|
|                                                        | N            | Baseline<br>MV (SD) | Change from<br>baseline<br>MV (SD) | N       | Baseline<br>MV (SD) | Change from<br>baseline<br>MV (SD) | LS Mean Difference<br>[95% CI]; p-value                                   |
| Study 1                                                | 6            | 127.14<br>(13.87)   | 0.17<br>(22.13)                    | 8       | 138.33<br>(22.57)   | 4.13<br>(7.72)                     | 6.25<br>[-8.67; 21.17] 0.3876                                             |
| Study 1504                                             | 10           | 129.10<br>(20.98)   | -1.10<br>(14.75)                   | 9       | 130.80<br>(18.68)   | -0.56<br>(9.07)                    | 0.10<br>[-13.15; 13.36] 0.9868                                            |
| <b>BRIEF-P - Inhibitory Self-Control Index (ISCI)</b>  |              |                     |                                    |         |                     |                                    |                                                                           |
| Study 1                                                | 6            | 55.43<br>(6.35)     | -3.00<br>(8.69)                    | 8       | 57.89<br>(8.01)     | 1.13<br>(4.49)                     | 4.79<br>[-1.93 11.52]; 0.1500                                             |
| Study 1504                                             | 10           | 55.10<br>(11.23)    | -2.50<br>(7.82)                    | 9       | 54.40<br>(9.52)     | 0.33<br>(6.52)                     | 2.02<br>[-4.69; 8.72] 0.5297                                              |
| <b>BRIEF-P - Flexibility Index (FI)</b>                |              |                     |                                    |         |                     |                                    |                                                                           |
| Study 1                                                | 6            | 35.71<br>(7.78)     | 0.00<br>(9.70)                     | 8       | 40.00<br>(8.62)     | 0.00<br>(3.63)                     | 2.35<br>[-3.83; 8.53] 0.4322                                              |
| Study 1504                                             | 10           | 35.80<br>(9.58)     | -0.40<br>(4.22)                    | 9       | 34.30<br>(8.12)     | 0.11<br>(2.98)                     | -0.30<br>[-4.31; 3.71] 0.8756                                             |
| <b>BRIEF-P - Metacognitive Development Index (EMI)</b> |              |                     |                                    |         |                     |                                    |                                                                           |
| Study 1                                                | 6            | 54.57<br>(10.97)    | 2.00<br>(9.34)                     | 8       | 61.22<br>(13.01)    | 2.50 (2.93)                        | 1.28<br>[-4.98; 7.53] 0.6706                                              |
| Study 1504                                             | 10           | 57.40<br>(10.61)    | 0.30<br>(9.51)                     | 9       | 59.70<br>(8.12)     | 0.11<br>(6.13)                     | 0.11<br>[-7.70; 7.92] 0.9762                                              |
| <b>BRIEF - Global Executive Total Score (GEC)</b>      |              |                     |                                    |         |                     |                                    |                                                                           |
| Study 1                                                | 30           | 181.39<br>(40.87)   | -11.03<br>(29.13)                  | 25      | 177.38<br>(40.19)   | 8.92<br>24.87                      | 18.48<br>[5.85; 31.11] 0.0047<br>Hedges' g [95%-CI]:<br>0.72 [0.17; 1.27] |
| Study 1504                                             | 23           | 183.33<br>(27.92)   | 5.17<br>(28.86)                    | 26      | 189.42<br>(29.39)   | -2.69<br>(30.72)                   | -6.30<br>[-21.61; 9.00] 0.4101                                            |
| <b>BRIEF - Behaviour Regulation Index (BRI)</b>        |              |                     |                                    |         |                     |                                    |                                                                           |
| Study 1                                                | 30           | 75.13<br>(18.27)    | -4.43<br>(10.47)                   | 25      | 73.66<br>(18.13)    | 3.04<br>(8.66)                     | 6.99<br>[2.48; 11.51] 0.0029<br>Hedges' g [95%-CI]:<br>0.76 [0.21; 1.31]  |
| Study 1504                                             | 23           | 74.75<br>(11.19)    | 0.43<br>(9.64)                     | 26      | 76.50<br>(13.62)    | -1.19<br>(9.64)                    | -1.29<br>[-6.87; 4.29] 0.6420                                             |
| <b>BRIEF - Metacognition Index (MI)</b>                |              |                     |                                    |         |                     |                                    |                                                                           |



| Endpoint;<br>Study | Fenfluramine |                     |                                    | Placebo |                     |                                    | Fenfluramine<br>vs placebo                                                |
|--------------------|--------------|---------------------|------------------------------------|---------|---------------------|------------------------------------|---------------------------------------------------------------------------|
|                    | N            | Baseline<br>MV (SD) | Change from<br>baseline<br>MV (SD) | N       | Baseline<br>MV (SD) | Change from<br>baseline<br>MV (SD) | LS Mean Difference<br>[95% CI]; p-value                                   |
| Study 1            | 30           | 106.26<br>(25.00)   | -6.60<br>(20.68)                   | 25      | 103.72<br>(25.12)   | 5.88<br>(19.14)                    | 11.32<br>[2.13; 20.51] 0.0165<br>Hedges' g [95%-CI]:<br>0.62 [0.07; 1.16] |
| Study 1504         | 23           | 108.58<br>(20.96)   | 4.74<br>(22.06)                    | 26      | 112.92<br>(18.46)   | -1.50<br>(22.42)                   | -4.88<br>[-15.73; 5.97] 0.3687                                            |

a) ANCOVA with stratification factor age and treatment group as independent variables, log seizure frequency at baseline as the covariate, and log-transformed seizure frequency during titration and maintenance phases (with addition +1 to avoid logarithm of zero) as a dependent variable.

b) Calculated from LS Mean on the logarithmic scale as follows:  $100 \times [1 - \exp(\text{LS Mean}_{\text{Fenfluramine}} - \text{LS Mean}_{\text{Placebo}})]$ .

For further statistical evaluation methodology and endpoint operationalisation, see Benefit Assessment

Abbreviations used: ANCOVA: Analysis of Covariance; BRIEF(-P): Behaviour Rating Inventory of Executive Function (- Preschool Version); CGI-I: Clinical Global Impression scale - Improvement; CMH: Cochran-Mantel-Haenszel; n.d.: no data; CI: Confidence interval; LS: Least Squares; MV: Mean value; n. c.: not calculable; n. a.: not available; OR: Odds Ratio; RR: Relative Risk; SD: Standard deviation; SE: standard error; SMD: Adverse Event

### Health-related quality of life

| Endpoint;<br>Study                   | Placebo         |                     |                                  | Fenfluramine    |                     |                                  | Placebo<br>vs fenfluramine                             |
|--------------------------------------|-----------------|---------------------|----------------------------------|-----------------|---------------------|----------------------------------|--------------------------------------------------------|
|                                      | n/N<br>(%)      | Baseline<br>MV (SD) | Difference<br>Week 12<br>MV (SD) | n/N<br>(%)      | Baseline<br>MV (SD) | Difference<br>Week 12<br>MV (SD) | LS-MD<br>[95% CI]; p Value<br>Hedges'g [95% CI]        |
| <b>Change of the PedsQL</b>          |                 |                     |                                  |                 |                     |                                  |                                                        |
| <b>QOLCE – Quality of life Total</b> |                 |                     |                                  |                 |                     |                                  |                                                        |
| Study 1                              | 32/40<br>(80.0) | 48.7<br>(18.1)      | 5.9<br>(15.1)                    | 32/40<br>(80.0) | 45.6<br>(17.1)      | -1.6<br>(10.4)                   | -7.58<br>[-13.44; -1.72] 0.012<br>-0.53 [-1.01; -0.04] |

| Endpoint;<br>Study                                                                                                                                                    | Placebo         |                     |                                  | Fenfluramine    |                     |                                  | Placebo<br>vs fenfluramine                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------|----------------------------------|-----------------|---------------------|----------------------------------|-----------------------------------------------------|
|                                                                                                                                                                       | n/N<br>(%)      | Baseline<br>MV (SD) | Difference<br>Week 12<br>MV (SD) | n/N<br>(%)      | Baseline<br>MV (SD) | Difference<br>Week 12<br>MV (SD) | LS-MD<br>[95% CI]; p Value<br>Hedges'g [95% CI]     |
| Study 1504                                                                                                                                                            | 30/43<br>(69.8) | 52.5<br>(12.1)      | -0.9<br>(11.8)                   | 36/44<br>(81.8) | 50.2<br>(16.6)      | -0.3<br>(12.4)                   | -1.17<br>[-7.05; 4.70] 0.691<br>-0.03 [-0.51; 0.46] |
| Pooled<br>Hedges' g                                                                                                                                                   |                 |                     |                                  |                 |                     |                                  | -0.27 [-0.62; 0.07]; p = 0.12                       |
| Abbreviations used: n.d: no data; CI: Confidence interval; MV: Mean value; n. a.: not available; PedsQL: Pediatric Quality of Life Inventory; SD: Standard deviation. |                 |                     |                                  |                 |                     |                                  |                                                     |

### Side effects

| Endpoint; Study    | Fenfluramine |                              | Placebo |                              | Fenfluramine<br>vs placebo   |
|--------------------|--------------|------------------------------|---------|------------------------------|------------------------------|
|                    | N            | Patients with event<br>n (%) | N       | Patients with event<br>n (%) | RR [95% CI]<br>p value       |
| <b>Total rates</b> |              |                              |         |                              |                              |
| <b>AE</b>          |              |                              |         |                              |                              |
| Study 1            | 40           | 38 (95.0)                    | 40      | 26 (65.0)                    | -                            |
| Study 1504         | 43           | 42 (97.7)                    | 44      | 42 (95.5)                    | -                            |
| Meta-analysis      |              |                              |         |                              | -                            |
| <b>severe AE</b>   |              |                              |         |                              |                              |
| Study 1            | 40           | 3 (7.5)                      | 40      | 2 (5.0)                      | n. d                         |
| Study 1504         | 43           | 2 (4.7)                      | 44      | 0 (0)                        | n.c                          |
| Meta-analysis      |              |                              |         |                              | n.c                          |
| <b>SAE</b>         |              |                              |         |                              |                              |
| Study 1            | 40           | 5 (12.5)                     | 40      | 4 (10.0)                     | 1.17 [0.35; 3.92];<br>0.7948 |

|                                                                                                                                                                                                     |    |           |    |           |                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------|----|-----------|------------------------------|
| Study 1504                                                                                                                                                                                          | 43 | 6 (14.0)  | 44 | 7 (15.9)  | 0.87 [0.32; 2.38];<br>0.7849 |
| Meta-analysis                                                                                                                                                                                       |    |           |    |           | 0.98 [0.45; 2.13];<br>0.9659 |
| <b>AE, which led to the discontinuation of the study medication</b>                                                                                                                                 |    |           |    |           |                              |
| Study 1                                                                                                                                                                                             | 40 | 5 (12.5)  | 40 | 0 (0)     | n.c                          |
| Study 1504                                                                                                                                                                                          | 43 | 2 (4.7)   | 44 | 1 (2.3)   | n. d                         |
| Meta-analysis                                                                                                                                                                                       |    |           |    |           | n.c                          |
| <b>AESI</b>                                                                                                                                                                                         |    |           |    |           |                              |
| Study 1                                                                                                                                                                                             | 40 | 18 (45.0) | 40 | 10 (25.0) | 1.84 [0.99; 3.42];<br>0.0526 |
| Study 1504                                                                                                                                                                                          | 43 | 10 (23.3) | 44 | 10 (22.7) | 1.03 [0.48; 2.22];<br>0.9434 |
| Meta-analysis                                                                                                                                                                                       |    |           |    |           | 1.47 [0.91; 2.37];<br>0.1201 |
| Abbreviations used:<br>AESI: AE of special interest End of Treatment; n. d.: no data; CI: Confidence interval; n: Number; n.c.: not calculable; RR: Relative Risk; (S) AE: (Serious) adverse events |    |           |    |           |                              |

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

### Patients 2 years of age and older with seizures associated with Dravet syndrome

approx. 450 to 2450 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 Fintepla (active ingredient: fenfluramine) at the following publicly accessible link (last access: 10 March 2021):

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

Treatment with fenfluramine should only be initiated and monitored by doctors experienced in treating patients with epilepsy.

The European Public Assessment Report (EPAR) states that fenfluramine has not been studied in adults.

In accordance with the European Medicines Agency (EMA) requirements regarding additional measures to risk minimisation, the pharmaceutical company should provide training materials

for all healthcare professionals prescribing, dispensing and administering fenfluramine and to patients receiving fenfluramine.

Educational material for healthcare professionals includes guidance on the risk of valvular heart disease, pulmonary arterial hypertension and non-intended use for weight control.

Patient education materials include a guide regarding the risk of valvular heart disease and pulmonary hypertension.

#### 4. Treatment costs

##### Annual treatment costs:

Patients 2 years of age and older with seizures associated with Dravet syndrome

| Designation of the therapy         | Annual treatment costs/patient |
|------------------------------------|--------------------------------|
| Medicinal product to be assessed:  |                                |
| Fenfluramine                       | € 19,066.83 - € 86,647.23      |
| additionally required SHI services | € 34.15                        |

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

**II. The resolution will enter into force on the day of its publication on the internet on the website of the G-BA on 15 July 2021.**

The justification to this resolution will be published on the website of the G-BA at [www.g-ba.de](http://www.g-ba.de).

Berlin, 15 July 2021

Federal Joint Committee (G-BA)  
in accordance with Section 91 SGB V  
The Chair

Prof. Hecken