

Avapritinib (new therapeutic indication: systemic mastocytosis, after at least 1 prior therapy)

Resolution of: 15 September 2022 Entry into force on: 15 September 2022 Federal Gazette, BAnz AT 08 11 2022 B1 Valid until: unlimited

## New therapeutic indication (according to the marketing authorisation of 24 March 2022):

AYVAKYT is indicated as monotherapy for the treatment of adult patients with aggressive systemic mastocytosis (ASM), systemic mastocytosis with an associated haematological neoplasm (SM-AHN) or mast cell leukaemia (MCL), after at least one systemic therapy.

### Therapeutic indication of the resolution (resolution of 15 September 2022):

See new therapeutic indication according to marketing authorisation.

### 1. Extent of the additional benefit and significance of the evidence

Avapritinib is approved as a medicinal product for the treatment of rare diseases under 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 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).

Adults with aggressive systemic mastocytosis (ASM), systemic mastocytosis with associated haematological neoplasm (SM-AHN) or mast cell leukaemia (MCL), after at least one systemic therapy

### Extent of the additional benefit and significance of the evidence of avapritinib:

Hint for a non-quantifiable additional benefit since the scientific data does not allow quantification.

# Study results according to endpoints:1

Adults with aggressive systemic mastocytosis (ASM), systemic mastocytosis with associated haematological neoplasm (SM-AHN) or mast cell leukaemia (MCL), after at least one systemic therapy

## Summary of results for relevant clinical endpoints

| Endpoint category   | Direction<br>of<br>effect/<br>risk of<br>bias   | Summary                       |  |  |  |  |
|---|---|-------------------------------|--|--|--|--|
| Mortality   | n.a.  | There are no assessable data. |  |  |  |  |
| Morbidity   | n.a.  | There are no assessable data. |  |  |  |  |
| Health-related<br>quality of life   | n.a.  | There are no assessable data. |  |  |  |  |
| Side effects  | n.a.  | There are no assessable data. |  |  |  |  |
| $\downarrow$ : statistically significant a  | Explanations:<br>$\uparrow$ : statistically significant and relevant positive effect with low/unclear reliability of data<br>$\downarrow$ : statistically significant and relevant negative effect with low/unclear reliability of data<br>$\uparrow$ $\uparrow$ : statistically significant and relevant positive effect with high reliability of data |                               |  |  |  |  |
| $\downarrow \downarrow$ : statistically significant and relevant negative effect with high reliability of data<br>$\leftrightarrow$ : no statistically significant or relevant difference |   |                               |  |  |  |  |
| Ø: There are no usable dat<br>n.a.: not assessable  | a for the bene  | fit assessment.               |  |  |  |  |

PATHFINDER study (pivotal): ongoing, multicentre, open-label and uncontrolled phase II study; data cut-off from 20 April 2021; safety population

EXPLORER study (supportive): ongoing, multicentre, open-label, uncontrolled phase I study with a phase II expansion; data cut-off from 20 April 2021; safety population

Pooled analyses of the EXPLORER and PATHFINDER studies

### Mortality

|            |    | Avapritinib                                |
|------------|----|--|
|            | N  | Median survival time in months<br>[95% CI] |
|            |    | Patients with event n (%) <sup>a</sup>     |
| EXPLORER   | 12 | n.a.<br>[13; n.a.]<br>3 (25%)              |
| PATHFINDER | 67 | n.a.<br>[n.a.; n.a.]<br>11 (16.4)          |

<sup>&</sup>lt;sup>1</sup> Data from the dossier assessment of the G-BA (published on 1. July 2022), unless otherwise indicated.

# Morbidity

| Endpoint                     | Avapritinib    |  |                |                      |                |                      |  |  |
|------------------------------|----------------|--|----------------|----------------------|----------------|----------------------|--|--|
|                              | N              | N Patients with event n (%) <sup>a</sup> |                |                      |                |                      |  |  |
| Complete remissio            | n (CR)         | (additional) <sup>h, i</sup>             |                |                      |                |                      |  |  |
| EXPLORER                     | 11             |  |                | 1 (9.1)              |                |                      |  |  |
| PATHFINDER                   | 47             |  |                | 1 (2.1)              |                |                      |  |  |
| Pooled                       | 58             |  |                | 2 (3.4)              |                |                      |  |  |
| Endpoint                     | PA             | THFINDER study                           | EXPLO          | ORER study           | Р              | ooled                |  |  |
|                              |                | Avapritinib<br>(N = 67)                  |                | apritinib<br>N = 12) |                | ipritinib<br>I = 79) |  |  |
|                              | N <sup>a</sup> | MV (SD)                                  | N <sup>a</sup> | MV (SD)              | N <sup>a</sup> | MV (SD)              |  |  |
| Patient Global Imp           | ressio         | n of Symptom Severi                      | ty (PGIS) –    | Changes from b       | aseline        |                      |  |  |
| Baseline <sup>a, b</sup>     | 60             | 2.6 (1.1)                                | 10             | 2.0 (1.2)            | 70             | 2.5 (1.1)            |  |  |
| Cycle 1, day 15ª             | 52             | -0.6 (1.2)                               | _c             | _ c                  | _ c            | _ c                  |  |  |
| Cycle 2, day 1 <sup>a</sup>  | 53             | -0.9 (1.2)                               | 9              | -0.6 (1.4)           | 62             | -0.8 (1.2)           |  |  |
| Cycle 3, day 1 <sup>a</sup>  | 50             | -1.0 (1.2)                               | 8 <sup>d</sup> | -0.5 (1.2)           | 58             | -1.0 (1.2)           |  |  |
| Cycle 4, day 1 <sup>a</sup>  | _e _e          |  | 9              | -0.6 (1.4)           | - <sup>e</sup> | _ e                  |  |  |
| EORTC QLQ-C30: S             | ympto          | m scales – Changes f                     | rom baseli     | ne                   |                |                      |  |  |
| Fatigue                      |                |  |                |                      |                |                      |  |  |
| Baseline <sup>a, b</sup>     | 60             | 66.1 (29.0)                              | 10             | 65.6 (31.2)          | 70             | 66.0 (29.1)          |  |  |
| Cycle 1, day 15 <sup>ª</sup> | 52             | -12.2 (22.6)                             | _ c            | - c                  | - c            | - c                  |  |  |
| Cycle 2, day 1 <sup>a</sup>  | 54             | -9.7 (26.0)                              | 9              | -25.9 (32.4)         | 63             | -12 (27.3)           |  |  |
| Cycle 3, day 1 <sup>a</sup>  | 50             | -9.3 (26.2)                              | 8 <sup>d</sup> | -26.4 (28.4)         | 58             | -11.7 (26.9)         |  |  |
| Cycle 4, day 1 <sup>a</sup>  | - e            | _ e                                      | 9              | -25.9 (44.8)         | _ e            | _ e                  |  |  |
| Nausea and vomit             | ing            |  |                | ·                    |                |                      |  |  |
| Baseline <sup>a, b</sup>     | 60             | 15 (26.0)                                | 10             | 15 (24.2)            | 70             | 15 (25.6)            |  |  |
| Cycle 1, day 15 <sup>a</sup> | 52             | -1 (22.7)                                | _ c            | _ c                  | _ c            | _ c                  |  |  |
| Cycle 2, day 1 <sup>ª</sup>  | 54             | -3.7 (27.6)                              | 9              | 0 (22.0)             | 63             | -3.2 (26.8)          |  |  |
| Cycle 3, day 1 <sup>a</sup>  | 50             | -4.7 (27.6)                              | 8 <sup>d</sup> | 4.2 (30.5)           | 58             | -3.4 (27.9)          |  |  |
| Cycle 4, day 1ª              | - <sup>e</sup> | _ e                                      | 9              | 1.8 (22.7)           | _ e            | _ e                  |  |  |

| Endpoint                     | PA                      | THFINDER study | EXPLO          | ORER study           | Р                       | ooled          |
|------------------------------|-------------------------|----------------|----------------|----------------------|-------------------------|----------------|
|                              | Avapritinib<br>(N = 67) |                |                | apritinib<br>N = 12) | Avapritinib<br>(N = 79) |                |
| Pain                         |                         |                | -              |                      |                         |                |
| Baseline <sup>a, b</sup>     | 60                      | 40.3 (32.9)    | 10             | 41.7 (33.6)          | 70                      | 40.5 (32.8)    |
| Cycle 1, day 15ª             | 52                      | -14.7 (27.1)   | _ c            | _ c                  | _ c                     | _ c            |
| Cycle 2, day 1 <sup>a</sup>  | 54                      | -13.6 (29.9)   | 9              | -24.1 (31.3)         | 63                      | -15.1 (30.0)   |
| Cycle 3, day 1 <sup>a</sup>  | 50                      | -18.3 (29.8)   | 8 <sup>d</sup> | -10.4 (28.1)         | 58                      | -17.2 (29.4)   |
| Cycle 4, day 1 <sup>a</sup>  | - <sup>e</sup>          | _ e            | 9              | -25.9 (42.6)         | _ e                     | _ e            |
| Dyspnoea                     |                         |                |                | •                    |                         |                |
| Baseline <sup>a, b</sup>     | 60                      | 43.9 (36.0)    | 10             | 43.3 (35.3)          | 70                      | 43.8 (35.7)    |
| Cycle 1, day 15ª             | 52                      | -9.6 (32.6)    | _ c            | _ c                  | _ c                     | _ c            |
| Cycle 2, day 1 <sup>a</sup>  | 54                      | -9.9 (34.6)    | 9              | -18.5 (37.7)         | 63                      | -11.1 (34.9)   |
| Cycle 3, day 1 <sup>a</sup>  | 50                      | -14.7 (35.1)   | 8 <sup>d</sup> | -25.0 (34.5)         | 58                      | -16.1 (34.9)   |
| Cycle 4, day 1 <sup>a</sup>  | - <sup>e</sup>          | _ e            | 9              | -25.9 (27.8)         | _ e                     | _ e            |
| Insomnia                     | •                       |                |                |                      |                         |                |
| Baseline <sup>a, b</sup>     | 60                      | 55.0 (36.7)    | 10             | 46.7 (42.2)          | 70                      | 53.8 (37.3)    |
| Cycle 1, day 15ª             | 52                      | -14.7 (32.6)   | _ c            | _ c                  | _ c                     | - <sup>c</sup> |
| Cycle 2, day 1 <sup>a</sup>  | 54                      | -19.8 (41.7)   | 9              | -22.2 (52.7)         | 63                      | -20.1 (43.0)   |
| Cycle 3, day 1 <sup>a</sup>  | 50                      | -17.3 (39.4)   | 8 <sup>d</sup> | -8.3 (58.4)          | 58                      | -16.1 (42.0)   |
| Cycle 4, day 1 <sup>a</sup>  | - <sup>e</sup>          | _ e            | 9              | -18.5 (50.3)         | _ e                     | _ e            |
| Loss of appetite             | •                       |                |                |                      |                         |                |
| Baseline <sup>a, b</sup>     | 60                      | 41.1 (33.8)    | 10             | 36.7 (39.9)          | 70                      | 40.5 (34.5)    |
| Cycle 1, day 15ª             | 52                      | -16.0 (31.3)   | _ c            | - <sup>c</sup>       | _ c                     | _ c            |
| Cycle 2, day 1 <sup>a</sup>  | 54                      | -18.5 (38.1)   | 9              | -3.7 (51.2)          | 63                      | -16.4 (40.1)   |
| Cycle 3, day 1 <sup>a</sup>  | 50                      | -22.0 (42.9)   | 8 <sup>d</sup> | -4.2 (62.8)          | 58                      | -19.5 (45.9)   |
| Cycle 4, day 1ª              | <b>-</b> <sup>e</sup>   | _ e            | 9              | -3.7 (53.9)          | _ e                     | _ e            |
| Constipation                 |                         |                |                |                      |                         |                |
| Baseline <sup>a, b</sup>     | 60                      | 21.1 (31.3)    | 10             | 16.7 (28.3)          | 70                      | 20.5 (30.7)    |
| Cycle 1, day 15 <sup>ª</sup> | 52                      | -1.3 (24.7)    | _ c            | _ c                  | _ c                     | _ c            |
| Cycle 2, day 1 <sup>a</sup>  | 54                      | -8.6 (29.1)    | 9              | -11.1 (33.3)         | 63                      | -9 (29.5)      |

| Endpoint                    | PA             | THFINDER study          | EXPLO          | ORER study           | Pooled                  |                |  |
|-----------------------------|----------------|-------------------------|----------------|----------------------|-------------------------|----------------|--|
|                             |                | Avapritinib<br>(N = 67) |                | apritinib<br>N = 12) | Avapritinib<br>(N = 79) |                |  |
| Cycle 3, day 1 <sup>a</sup> | 50             | -4.7 (32.3)             | 8 <sup>d</sup> | -12.5 (35.4)         | 58                      | -5.8 (32.5)    |  |
| Cycle 4, day 1 <sup>a</sup> | - <sup>e</sup> | _ e                     | 9              | -14.8 (29.4)         | _ e                     | - <sup>e</sup> |  |
| Diarrhoea                   | Diarrhoea      |                         |                |                      |                         |                |  |
| Baseline <sup>a, b</sup>    | 60             | 34.4 (37.8)             | 10             | 50.0 (45.1)          | 70                      | 36.7 (39.0)    |  |
| Cycle 1, day 15ª            | 52             | -13.5 (39.7)            | - c            | _ c                  | _ c                     | - c            |  |
| Cycle 2, day 1ª             | 54             | -11.1 (39.4)            | 9              | -7.4 (49.4)          | 63                      | -10.6 (40.5)   |  |
| Cycle 3, day 1ª             | 50             | -17.3 (40.5)            | 8 <sup>d</sup> | -4.2 (51.8)          | 58                      | -15.5 (42.0)   |  |
| Cycle 4, day 1 <sup>a</sup> | - <sup>e</sup> | _ e                     | 9              | -18.5 (55.6)         | _ e                     | _ e            |  |

# Health-related quality of life

| Endpoint                     |  | PATHFINDER study                               | EXF            | PLORER study                                   |         | Pooled   |  |  |
|------------------------------|--|--|----------------|--|---------|--|--|--|
|                              | Avapritinib (safety<br>population)<br>(N = 67) |  |                | Avapritinib<br>(safety population)<br>(N = 12) |         | Avapritinib<br>(safety population)<br>(N = 79) |  |  |
| EORTC QLQ-C30: F             | unctio   | onal scales and general h                      | nealth sc      | ale – Changes fror                             | n basel | ine  |  |  |
| General health sta           | atus   |  |                |  |         |  |  |  |
| Baseline <sup>a, b</sup>     | 60   | 38.2 (24.3)                                    | 10             | 44.2 (26.9)                                    | 70      | 39.0 (24.6)                                    |  |  |
| Cycle 1, day 15 <sup>ª</sup> | 52   | 13.1 (22.3)                                    | - <sup>c</sup> | _ c  | - c     | _ c  |  |  |
| Cycle 2, day 1 <sup>a</sup>  | 54   | 13.6 (24.9)                                    | 9              | 25.0 (31.2)                                    | 63      | 15.2 (25.9)                                    |  |  |
| Cycle 3, day 1 <sup>a</sup>  | 50   | 16.8 (28.4)                                    | 8 <sup>d</sup> | 25.0 (31.5)                                    | 58      | 18.0 (28.7)                                    |  |  |
| Cycle 4, day 1 <sup>a</sup>  | - <sup>e</sup>                                 | _ e  | 9              | 24.1 (40.1)                                    | _ e     | _ e  |  |  |
| Physical functioni           | ng   |  |                |  |         |  |  |  |
| Baseline <sup>a, b</sup>     | 60   | 55.4 (26.9)                                    | 10             | 60.0 (28.3)                                    | 70      | 56.1 (27.0)                                    |  |  |
| Cycle 1, day 15 <sup>ª</sup> | 52   | 8.8 (15.6)                                     | - c            | _ c  | - c     | _ c  |  |  |
| Cycle 2, day 1 <sup>ª</sup>  | 54   | 6.8 (19.7)                                     | 9              | 16.3 (23.1)                                    | 63      | 8.2 (20.3)                                     |  |  |
| Cycle 3, day 1 <sup>ª</sup>  | 50   | 7.7 (21.0)                                     | 8 <sup>d</sup> | 17.5 (15.5)                                    | 58      | 9.1 (20.5)                                     |  |  |
| Cycle 4, day 1ª              | - <sup>e</sup>                                 | _ e  | 9              | 20 (22.4)                                      | _ e     | _ e  |  |  |
| Endpoint                     |  | PATHFINDER study                               | EXPLORER study |  | Pooled  |  |  |  |
|                              |  | Avapritinib (safety<br>population)<br>(N = 67) |                | Avapritinib<br>(safety population)<br>(N = 12) |         | Avapritinib<br>(safety population)<br>(N = 79) |  |  |
| Role functioning             | ·  |  |                |  |         |  |  |  |
| Baseline <sup>a, b</sup>     | 60   | 45.6 (32.9)                                    | 10             | 45.0 (29.4)                                    | 70      | 45.5 (32.2)                                    |  |  |
| Cycle 1, day 15 <sup>ª</sup> | 52   | 7.4 (21.0)                                     | - c            | - c  | - c     | _ c  |  |  |
| Cycle 2, day 1 <sup>ª</sup>  | 54   | 8.3 (29.3)                                     | 9              | 31.5 (28.2)                                    | 63      | 11.6 (30.0)                                    |  |  |
| Cycle 3, day 1 <sup>ª</sup>  | 50   | 11 (28.7)                                      | 8 <sup>d</sup> | 20.8 (31.8)                                    | 58      | 12.4 (29.0)                                    |  |  |
| Cycle 4, day 1 <sup>ª</sup>  | - <sup>e</sup>                                 | _ e  | 9              | 25.9 (47.2)                                    | _ e     | _ e  |  |  |
| Emotional functio            | ning   |  |                |  |         |  |  |  |
| Baseline <sup>a, b</sup>     | 60   | 61.5 (27.2)                                    | 10             | 71.7 (25.2)                                    | 70      | 63.0 (27.0)                                    |  |  |
| Cycle 1, day 15 <sup>a</sup> | 52   | 5.6 (20.1)                                     | -              | _ c  | - c     | _ c  |  |  |
| Cycle 2, day 1 <sup>a</sup>  | 54   | 7.4 (23.9)                                     | 9              | 8.3 (26.7)                                     | 63      | 7.5 (24.1)                                     |  |  |

| 0                            |                |             |                |             |                |             |  |
|------------------------------|----------------|-------------|----------------|-------------|----------------|-------------|--|
| Cycle 3, day 1ª              | 50             | 7.7 (21.7)  | 8 <sup>d</sup> | 14.9 (20.5) | 58             | 8.7 (21.6)  |  |
| Cycle 4, day 1 <sup>a</sup>  | - <sup>e</sup> | _ e         | 9              | 14.8 (22.0) | - <sup>e</sup> | _ e         |  |
| Cognitive functioning        |                |             |                |             |                |             |  |
| Baseline <sup>a, b</sup>     | 60             | 73.3 (25.7) | 10             | 73.3 (16.1) | 70             | 73.3 (24.5) |  |
| Cycle 1, day 15 <sup>a</sup> | 52             | 1.3 (13.9)  | - c            | _ c         | - c            | _ c         |  |
| Cycle 2, day 1 <sup>a</sup>  | 54             | -0.9 (19.5) | 9              | 13 (23.2)   | 63             | 1.1 (20.5)  |  |
| Cycle 3, day 1 <sup>a</sup>  | 50             | 0.3 (19.8)  | 8 <sup>d</sup> | 14.6 (18.8) | 58             | 2.3 (20.1)  |  |
| Cycle 4, day 1 <sup>a</sup>  | - <sup>e</sup> | _ e         | 9              | 11.1 (20.4) | - e            | _ e         |  |
| Social functioning           |                |             |                |             |                |             |  |
| Baseline <sup>a, b</sup>     | 60             | 51.7 (31.5) | 10             | 56.7 (32.6) | 70             | 52.4 (31.5) |  |
| Cycle 1, day 15 <sup>a</sup> | 52             | 12.5 (27.2) | -              | _ c         | - c            | _ c         |  |
| Cycle 2, day 1 <sup>a</sup>  | 54             | 13.3 (30.8) | 9              | 22.2 (36.3) | 63             | 14.6 (31.5) |  |
| Cycle 3, day 1 <sup>a</sup>  | 50             | 10.3 (24.9) | 8 <sup>d</sup> | 20.8 (26.4) | 58             | 11.8 (25.2) |  |
| Cycle 4, day 1 <sup>a</sup>  | - <sup>e</sup> | _ e         | 9              | 18.5 (28.2) | - <sup>e</sup> | _ e         |  |

# Side effects

| Endpoint                        | PA                | THFINDER study                            | E       | XPLORER study                             |    | Pooled <sup>f</sup>                       |  |
|---------------------------------|-------------------|---|---------|---|----|---|--|
|                                 |                   | Patients with<br>event n (%) <sup>a</sup> | N       | Patients with<br>event n (%) <sup>a</sup> | N  | Patients with<br>event n (%) <sup>a</sup> |  |
| Adverse events in total         |                   |   |         |   |    |   |  |
|                                 | 67                | 67 (100)                                  | 12      | 12 (100)                                  | 79 | 79 (100)                                  |  |
| Serious adverse events (S       | AEs) <sup>g</sup> |   |         |   |    |   |  |
|                                 | 67                | 27 (40.3)                                 | 12      | 5 (41.7)                                  | 79 | 32 (40.5)                                 |  |
| Severe adverse events (C        | TCAE              | grade 3 or 4) <sup>g</sup>                |         |   |    |   |  |
|                                 | 67                | 48 (71.6)                                 | 12      | 9 (75.0)                                  | 79 | 57 (72.2)                                 |  |
| Therapy discontinuation         | due to            | adverse events <sup>g</sup>               |         |   |    |   |  |
|                                 | 67                | 12 (17.9)                                 | 12      | 0 (0)                                     | 79 | 12 (15.2)                                 |  |
| AESI category<br>Preferred term | PA                | THFINDER study                            | E       | EXPLORER study                            |    | Pooled                                    |  |
|                                 | Ν                 | Patients with event n (%) <sup>a</sup>    | N       | Patients with<br>event n (%) <sup>a</sup> | N  | Patients with<br>event n (%) <sup>a</sup> |  |
| Adverse events of special       | inter             | est                                       |         |   |    |   |  |
| Subjects with at least one      | e AESI            | regardless of seve                        | erity g | rade                                      |    |   |  |
| Cognitive effects               | 67                | 13 (19.4)                                 | 12      | 3 (25.0)                                  | 79 | 16 (20.3)                                 |  |
| Cognitive disorder              | 67                | 8 (11.9)                                  | 12      | 2 (16.7)                                  | 79 | 10 (12.7)                                 |  |
| Impaired<br>memory              | 67                | 3 (4.5)                                   | 12      | 1 (8.3)                                   | 79 | 4 (5.1)                                   |  |
| State of confusion              | 67                | 1 (1.5)                                   | 12      | 0 (0)                                     | 79 | 1 (1.3)                                   |  |
| Intracranial<br>haemorrhage     | 67                | 1 (1.5)                                   | 12      | 1 (8.3)                                   | 79 | 2 (2.5)                                   |  |
| Subdural haematoma              | 67                | 1 (1.5)                                   | 12      | 1 (8.3)                                   | 79 | 2 (2.5)                                   |  |
| Subjects with ≥ 1 severe        | AESI              | ≥ grade 3 <sup>f,g</sup>                  |         |   |    |   |  |
| Cognitive effects               | 67                | 3 (4.5)                                   | 12      | 0 (0)                                     | 79 | 3 (3.8)                                   |  |
| Cognitive disorder              | 67                | 2 (3.0)                                   | 12      | 0 (0)                                     | 79 | 2 (2.5)                                   |  |
| Intracranial<br>haemorrhage     | 67                | 1 (1.5)                                   | 12      | 0 (0)                                     | 79 | 1 (1.3)                                   |  |
| Subdural haematoma              | 67                | 1 (1.5)                                   | 12      | 0 (0)                                     | 79 | 1 (1.3)                                   |  |
| AESI category                   | PA                | THFINDER study                            | E       | EXPLORER study                            | 1  | Pooled                                    |  |

| Preferred term  | N     | Patients with<br>event n (%) <sup>a</sup> | N     | Patients with<br>event n (%) <sup>a</sup> | N      | Patients with<br>event n (%) <sup>a</sup> |  |  |
|---|-------|---|-------|---|--------|---|--|--|
| Subjects with ≥ 1 serious AESI <sup>f,g</sup>   |       |   |       |   |        |   |  |  |
| Intracranial<br>haemorrhage   | 67    | 1 (1.5)                                   | 12    | 1 (8.3)                                   | 79     | 2 (2.5)                                   |  |  |
| Subdural haematoma  | 67    | 1 (1.5)                                   | 12    | 1 (8.3)                                   | 79     | 2 (2.5)                                   |  |  |
| <ul> <li><sup>a</sup> Subjects with available values</li> <li><sup>b</sup> Baseline is defined as the first treatment day (C1D1) in both the PATHFINDER and EXPLORER studies.</li> <li><sup>c</sup> In the EXPLORER study, no assessment takes place at this time.</li> <li><sup>d</sup> A single subject is already enrolled in the EXPLORER study proportionally at 8.3%. Falling short of the return rate of 70% for this individual cycle is low at 3.3%. Therefore, the results for cycle 3 are presented in the EXPLORER study.</li> <li><sup>e</sup> There is no assessment in the PATHFINDER study at this time.</li> <li><sup>f</sup> When interpreting the pooled results, it must be taken into account that the severity grading in the PATHFINDER study is made according to CTCAE version 5.0 and in the EXPLORER study according to version 4.03, so that for some AEs differences in gradations may exist between the two studies.</li> <li><sup>g</sup> Missing severity grade information and/or causality information is not imputed, but is classified as "missing"</li> <li><sup>h</sup> Evaluations for the endpoint "CR" based on the "population with evaluable response according to Study Steering Committee" (SSC-RE in PATHFINDER) and the "population with evaluable response according to Study Steering committee" (SSC-RE in PATHFINDER study and the "population with evaluable response according to Study ORR was defined as a secondary endpoint. The change in the IWG criteria to mIWG criteria was based on preliminary data from the EXPLORER study and was accompanied by inclusion of CRh (complete remission with partial increase in peripheral blood count) as a component of ORR. The inclusion of CRh, based on preliminary data from the EXPLORER study and was accompanied by inclusion of CRh (complete remission (CR) is presented as an alternative to the primary endpoint ORR.</li> </ul> |       |   |       |   |        |   |  |  |
| Abbreviations used:<br>AESI: adverse events of speconfidence interval; MV = mo<br>one) event; n.e. = not evaluation   | ean v | alue; N = number of                       | patie | nts evaluated; n = num                    | ber of |   |  |  |

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

Adults with aggressive systemic mastocytosis (ASM), systemic mastocytosis with associated haematological neoplasm (SM-AHN) or mast cell leukaemia (MCL), after at least one systemic therapy

approx. 270 to 680 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 Ayvakyt (active ingredient: avapritinib) at the following publicly accessible link (last access: 1 July 2022):

https://www.ema.europa.eu/en/documents/product-information/ayvakyt-epar-productinformation\_en.pdf

Treatment with avapritinib should only be initiated and monitored by specialists in internal medicine, haematology and oncology experienced in the treatment of patients with mastocytosis.

This medicinal product was authorised under "special conditions". This means that further evidence of the benefit of the medicinal product is anticipated. The European Medicines Agency will evaluate new information on this medicinal product at a minimum once per year and update the product information where necessary.

Avapritinib has been associated with an increased incidence of haemorrhagic events. The risk of intracranial haemorrhage should be carefully assessed before the start of treatment.

### 4. Treatment costs

### Annual treatment costs:

Adults with aggressive systemic mastocytosis (ASM), systemic mastocytosis with associated haematological neoplasm (SM-AHN) or mast cell leukaemia (MCL), after at least one systemic therapy

| Designation of the therapy        | Annual treatment costs/ patient |  |  |  |  |
|-----------------------------------|---------------------------------|--|--|--|--|
| Medicinal product to be assessed: |                                 |  |  |  |  |
| Avapritinib                       | € 257,970.81                    |  |  |  |  |

Costs after deduction of statutory rebates (LAUER-TAXE®) as last revised: 15 August 2022)

Costs for additionally required SHI services: not applicable