

Enfortumab Vedotin (urothelial cancer, pretreated with platinum-containing chemotherapy and PD-(L)1 Inhibitor)

Resolution of: 1 December 2022/ 24 January 2023 Entry Valid until: unlimited
into force on: 1 December 2022/ 26 January 2023 Federal
Gazette, BAnz AT 31 01 2023 B6/ BAnz AT 03 05 2023 B2

Therapeutic indication (according to the marketing authorisation of 13 April 2022):

Padcev as monotherapy is indicated for the treatment of adult patients with locally advanced or metastatic urothelial cancer who have previously received a platinum-containing chemotherapy and a programmed death receptor-1 or programmed death-ligand 1 inhibitor

Therapeutic indication of the resolution (resolution of 1 December 2022):

See therapeutic indication according to marketing authorisation.

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

- a) Adults with locally advanced or metastatic urothelial cancer who have previously received a platinum-containing chemotherapy and a PD-1 or PD-L1 inhibitor and who are eligible for chemotherapy

Appropriate comparator therapy:

Chemotherapy according to doctor's instructions

Extent and probability of the additional benefit of enfortumab vedotin compared to chemotherapy according to doctor's instructions:

Hint for a major additional benefit

- b) Adults with locally advanced or metastatic urothelial cancer who have previously received a platinum-containing chemotherapy and a PD-1 or PD-L1 inhibitor and who are ineligible for chemotherapy

Appropriate comparator therapy:

- Best supportive care

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

An additional benefit is not proven.

Study results according to endpoints:¹

- a) Adults with locally advanced or metastatic urothelial cancer who have previously received a platinum-containing chemotherapy and a PD-1 or PD-L1 inhibitor and who are eligible for chemotherapy

Hint for a major additional benefit

Summary of results for relevant clinical endpoints

| Endpoint category | Direction of effect/ risk of bias | Summary |
|--|-----------------------------------|--|
| Mortality | ↑ | Advantage in overall survival. |
| Morbidity | ↔ | No relevant differences for the benefit assessment. |
| Health-related quality of life | ↑ | Advantages in the functional scales of global health status, physical functioning, role functioning and emotional functioning. |
| Side effects | ↔ | No relevant differences for the benefit assessment. |
| 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.c.: not calculable | | |

EV-301 study:

- Study design: RCT, open-label, parallel
- Comparison: Enfortumab vedotin **vs** docetaxel or vinflunine or paclitaxel, at the discretion of the treating physician
- Data cut-offs:
 - 1st data cut-off from 15.07.2020 (overall survival, morbidity, health-related quality of life and side effects)
 - 2nd data cut-off from 30.07.2021 (overall survival and side effects)

¹ Data from the dossier assessment of the IQWiG (A22-61) and from the addendum (A22-107), unless otherwise indicated.

Mortality

| Endpoint | Enfortumab vedotin | | Chemotherapy according to doctor's instructions ^a | | Enfortumab vedotin vs chemotherapy according to doctor's instructions |
|---|--------------------|---|--|---|---|
| | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | Effect estimator [95% CI] p value Absolute difference (AD) ^b |
| Mortality | | | | | |
| Overall survival (2nd data cut-off from 30.07.2021) | 301 | 12.91 [11.01; 14.92] 207 (68.8) | 307 | 8.94 [8.25; 10.25] 237 (77.2) | 0.70 [0.58; 0.85] 0.001 AD = +3.97 months |

Morbidity

| Endpoint | Enfortumab vedotin | | Chemotherapy according to doctor's instructions ^a | | Enfortumab vedotin vs chemotherapy according to doctor's instructions |
|---|--------------------|---|--|---|---|
| | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | Effect estimator [95% CI] p value Absolute difference (AD) ^b |
| Progression-free survival 1 (PFS1)^c | | | | | |
| 1st data cut-off from 15.07.2020 | 301 | 5.55 [5.32; 5.82] 201 (66.8%) | 307 | 3.71 [3.52; 3.94] 231 (75.2%) | 0.62 [0.51; 0.75] < 0.0001 AD = +1.84 months |
| 2nd data cut-off from 30.07.2021 | 301 | 5.55 [5.32; 6.28] 231 (76.7%) | 307 | 3.71 [3.52; 3.94] 248 (80.8%) | 0.63 [0.53; 0.76] < 0.0001 AD = +1.84 months |

| Endpoint | Enfortumab vedotin | | Chemotherapy according to doctor's instructions ^a | | Enfortumab vedotin vs chemotherapy according to doctor's instructions |
|--|---------------------------------------|---|--|---|---|
| | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | Effect estimator [95% CI] p value Absolute difference (AD) ^b |
| EORTC QLQ-C30 (1st data cut-off from 15.07.2020)^d | | | | | |
| Fatigue | 301 | 0.76 [0.59; 0.89] <i>197 (65.4)</i> | 307 | 0.72 [0.49; 0.82] <i>180 (58.6)</i> | 0.88 [0.71; 1.09] 0.226 |
| Nausea and vomiting | 301 | 1.71 [1.41; 2.37] <i>140 (46.5)</i> | 307 | 1.28 [0.99; 1.87] <i>141 (45.9)</i> | 0.83 [0.65; 1.05] 0.121 |
| Pain | 301 | 1.08 [0.95; 1.54] <i>165 (54.8)</i> | 307 | 1.08 [0.95; 1.38] <i>159 (51.8)</i> | 0.87 [0.69; 1.09] 0.220 |
| Dyspnoea | 301 | 4.44 [1.71; n.c.] <i>118 (39.2)</i> | 307 | 1.94 [1.51; 2.60] <i>130 (42.3)</i> | 0.78 [0.61; 1.01] 0.055 |
| Insomnia | 301 | 1.81 [1.05; 2.60] <i>139 (46.2)</i> | 307 | 1.48 [1.08; 2.33] <i>134 (43.6)</i> | 0.85 [0.67; 1.09] 0.194 |
| Appetite loss | 301 | 1.08 [0.82; 1.51] <i>164 (54.5)</i> | 307 | 1.15 [0.99; 1.71] <i>142 (46.3)</i> | 1.00 [0.80; 1.26] 0.969 |
| Constipation | No usable data available ^e | | | | |
| Diarrhoea | 301 | 2.14 [1.45; 7.49] <i>129 (42.9)</i> | 307 | 2.79 [1.58; 7.69] <i>114 (37.1)</i> | 1.01 [0.78; 1.30] 0.938 |
| Health status (EQ-5D VAS, 1st data cut-off from 15.07.2020)^f | | | | | |
| | 301 | 2.53 [1.68; 5.52] <i>132 (43.9)</i> | 307 | 2.10 [1.51; 2.53] <i>136 (44.3)</i> | 0.79 [0.62; 1.01] 0.069 |

Health-related quality of life

| Endpoint | Enfortumab vedotin | | Therapy according to doctor's instructions ^a | | Enfortumab vedotin vs therapy according to doctor's instructions |
|---|--------------------|---|---|---|---|
| | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | Effect estimator [95% CI] p value Absolute difference (AD) ^b |
| EORTC QLQ-C30 (1st data cut-off from 15.07.2020)^g | | | | | |
| Global health status | 301 | 1.41 [1.02; 1.91] 162 (53.8) | 307 | 0.99 [0.79; 1.18] 156 (50.8) | 0.79 [0.63; 0.99] 0.046 AD = +0.42 months |
| Physical functioning | 301 | 1.87 [1.25; 2.66] 153 (50.8) | 307 | 1.45 [1.12; 1.68] 151 (49.2) | 0.78 [0.62; 0.99] 0.041 AD = +0.42 months |
| Role functioning | 301 | 0.99 [0.79; 1.38] 174 (57.8) | 307 | 0.79 [0.72; 0.99] 175 (57.0) | 0.76 [0.62; 0.95] 0.015 AD = +0.20 months |
| Emotional functioning | 301 | 5.45 [2.46; 6.54] 116 (38.5) | 307 | 2.43 [1.48; 4.17] 124 (40.4) | 0.73 [0.56; 0.95] 0.019 AD = +3.02 months |
| Cognitive functioning | 301 | 1.71 [1.28; 2.20] 155 (51.5) | 307 | 1.45 [1.02; 1.64] 143 (46.6) | 0.91 [0.72; 1.14] 0.401 |
| Social functioning | 301 | 1.02 [0.79; 1.41] 167 (55.5) | 307 | 0.89 [0.76; 1.08] 156 (50.8) | 0.87 [0.69; 1.09] 0.203 |

Side effects^h

| Endpoint | Enfortumab vedotin | | Therapy according to doctor's instructions ^a | | Enfortumab vedotin vs therapy according to doctor's instructions |
|--|--------------------------|---|---|---|---|
| | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | Effect estimator [95% CI] p value Absolute difference (AD) ^b |
| Total adverse events (presented additionally) | | | | | |
| | 296 | 0.20 [0.16; 0.23] 290 (98.0) | 291 | 0.13 [0.10; 0.16] 288 (99.0) | - |
| Serious adverse events (SAE) | | | | | |
| | 296 | 14,36 [5,45; n.c.] 143 (48.3) | 291 | n.a. [5,26; n.c.] 135 (46.4) | 0.94 [0.75; 1.20] 0.643 |
| Severe adverse eventsⁱ | | | | | |
| | 296 | 1.77 [1.28; 2.27] 216 (73.0) | 291 | 1.41 [0.95; 2.14] 200 (68.7) | 0.96 [0.79; 1.17] 0.734 |
| Discontinuation due to AEs | | | | | |
| | 296 | n.a. 62 (20.9) | 291 | n.a. 61 (21.0) | 0.93 [0.65; 1.33] 0.697 |
| Specific adverse events | | | | | |
| Constipation | No usable data available | | | | |
| Peripheral neuropathy (SMQ, AEs) | 296 | 5.68 [4.63; 8.34] 153 (51.7) | 291 | n.a. 104 (35.7) | 1.40 [1.09; 1.81] 0.008 |
| Febrile neutropenia (PT, severe AEs ⁱ) | 296 | n.a. 4 (1.4) | 291 | n.a. 16 (5.5) | 0.23 [0.08; 0.70] 0.005 |
| Hyperglycaemia (PT, severe AEs ⁱ) | 296 | n.a. 21 (7.1) | 291 | n.a. 3 (1.0) | 6.93 [2.07; 23.25] < 0.001 |
| Eye disorders (SOC, AEs) | 296 | n.a. 86 (29.1) | 291 | n.a. 26 (8.9) | 3.67 [2.36; 5.70] < 0.001 |

| Endpoint | Enfortumab vedotin | | Therapy according to doctor's instructions ^a | | Enfortumab vedotin vs therapy according to doctor's instructions |
|---|--------------------|---|---|---|---|
| | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | Effect estimator [95% CI] p value Absolute difference (AD) ^b |
| Gait disorder (PT, AEs) | 296 | n.a. 10 (3.4) | 291 | n.a. 0 (0) | n.c. 0.004 |
| Myalgia (PT, AEs) | 296 | n.a. 15 (5.1) | 291 | n.a. 35 (12.0) | 0.40 [0.22; 0.73] 0.002 |
| Dysgeusia (PT, AEs) | 296 | n.a. 75 (25.3) | 291 | n.a. 24 (8.2) | 3.28 [2.07; 5.21] < 0.001 |
| Acute kidney injury (PT, SAEs) | 296 | n.a. 20 (6.8) | 291 | n.a. 9 (3.1) | 2.17 [0.99; 4.77] 0.048 |
| Blood and lymphatic system disorders (SOC, severe AEs) ^j | 296 | n.a. 32 (10.8) | 291 | n.a. 71 (24.4) | 0.38 [0.25; 0.58] < 0.001 |
| Nervous system disorders (SOC, severe AEs) ^k | 296 | n.a. 32 (10.8) | 291 | n.a. 14 (4.8) | 2.03 [1.08; 3.82] 0.026 |
| Skin and subcutaneous tissue disorders (SOC, SAEs) | 296 | n.a. 14 (4.7) | 291 | n.a. 1 (0.3) | 14.23 [1.87; 108.27] < 0.001 |
| Infections and infestations (SOC, severe AEs) ^l | 296 | n.a. 58 (19.6) | 291 | n.a. 35 (12.0) | 1.62 [1.07; 2.47] 0.022 |
| Investigations (SOC, severe AEs) ^m | 296 | n.a. 46 (15.5) | 291 | n.a. 64 (22.0) | 0.61 [0.42; 0.90] 0.012 |

| Endpoint | Enfortumab vedotin | | Therapy according to doctor's instructions ^a | | Enfortumab vedotin vs therapy according to doctor's instructions |
|----------|--------------------|---|---|---|---|
| | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | N | Median time to event in months [95% CI] <i>Patients with event n (%)</i> | Effect estimator [95% CI] p value Absolute difference (AD) ^b |

- a In the EV-301 study, the chemotherapies vinflunine, paclitaxel and docetaxel were available.
- b Indication of absolute difference (AD) only in case of statistically significant difference; own calculation
- c Information from the dossier of the pharmaceutical company
- d Time to first deterioration; an increase in score by ≥ 10 points compared to the start of the study is considered a clinically relevant deterioration (scale range 0 to 100)
- e the results on constipation are not usable
- f Time to first deterioration; an increase in score by ≥ 15 points compared to the start of the study is considered a clinically relevant deterioration (scale range 0 to 100)
- g Time to first deterioration; a decrease in score by ≥ 10 points compared to the start of the study is considered a clinically relevant deterioration (scale range 0 to 100)
- h including events due to progression of the underlying disease
- i operationalised as CTCAE grade ≥ 3
- j including the PTs "anaemia", "febrile neutropenia" and "neutropenia" as the most frequent symptoms
- k including "peripheral sensory neuropathy" as the most frequent symptom
- l including the PTs "pneumonia" and "bacterial urinary tract infection" as the most frequent symptoms
- m including the PTs "neutropenia" and "leukopenia" as the most frequent symptoms

Abbreviations used:

AD = absolute difference; CTCAE = Common Terminology Criteria for Adverse Events; EORTC QLQ-C30 = European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire – Core 30; HR = hazard ratio; CI = confidence interval; N = number of patients evaluated; n = number of patients with (at least one) event; n.c. = not calculable; n.a. = not achieved; PT = preferred term; SOC = system organ class; SAE: serious adverse event; AE: adverse event; VAS = visual analogue scale; vs = versus

Study results according to endpoints:²

- b) Adults with locally advanced or metastatic urothelial cancer who have previously received a platinum-containing chemotherapy and a PD-1 or PD-L1 inhibitor and who are ineligible for chemotherapy

An additional benefit is not proven.

Summary of results for relevant clinical endpoints

| Endpoint category | Direction of effect/ risk of bias | Summary |
|--------------------------------|--------------------------------------|--|
| Mortality | ∅ | There are no usable data for the benefit assessment. |
| Morbidity | ∅ | There are no usable data for the benefit assessment. |
| Health-related quality of life | ∅ | There are no usable data for the benefit assessment. |
| Side effects | ∅ | There are no usable data for the benefit assessment. |

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.c.: not calculable

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

- a) Adults with locally advanced or metastatic urothelial cancer who have previously received a platinum-containing chemotherapy and a PD-1 or PD-L1 inhibitor and who are eligible for chemotherapy

approx. 190 - 590 patients

- b) Adults with locally advanced or metastatic urothelial cancer who have previously received a platinum-containing chemotherapy and a PD-1 or PD-L1 inhibitor and who are ineligible for chemotherapy

approx. 220 - 660 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 Padcev (active ingredient: enfortumab vedotin) at the following publicly accessible link (last access: 5 September 2022):

² Data from the dossier assessment of the IQWiG (A22-61) and from the addendum (A22-107), unless otherwise indicated.

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

Therapy with enfortumab vedotin should only be initiated and monitored by specialists in internal medicine, haematology, and oncology, who are experienced in the treatment of patients with locally advanced or metastatic urothelial cancer as well as specialists in urology, and other specialists participating in the Oncology Agreement.

In accordance with the EMA requirements regarding additional risk minimisation measures, the pharmaceutical company must provide training material that contains information for medical professionals and patients as well as a patient card. The patient is requested to carry the patient card with him/her at all times. The training material for health professionals and the patient card contain, in particular, instructions on how to deal with the skin reactions including severe skin reactions that can potentially occur with enfortumab vedotin.

4. Treatment costs

The costs for the first year of treatment are presented.

Annual treatment costs:

- a) Adults with locally advanced or metastatic urothelial cancer who have previously received a platinum-containing chemotherapy and a PD-1 or PD-L1 inhibitor and who are eligible for chemotherapy

| Designation of the therapy | Annual treatment costs/ patient |
|---|---------------------------------|
| Medicinal product to be assessed: | |
| Enfortumab vedotin | € 141,589.50 |
| Appropriate comparator therapy: | |
| Chemotherapy according to doctor's instructions ^a | |
| <i>Vinflunine</i> | |
| Vinflunine | € 71,224.29 |
| <i>Cisplatin in combination with gemcitabine</i> | |
| Cisplatin | € 1,506.05 |
| Gemcitabine | € 7,014.54 |
| Cisplatin + gemcitabine | € 8,520.59 |
| Additionally required SHI costs | € 242.72 - € 311.31 |
| ^a The active ingredients docetaxel and paclitaxel are suitable comparators for the present benefit assessment in the context of a chemotherapy according to doctor's instructions. However, these medicinal products are not approved in the present therapeutic indication, and therefore, no costs are presented for these medicinal products. | |

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

Other SHI services:

| Designation of the therapy | Type of service | Costs/ unit | Number/ cycle | Number/ patient/ year | Costs/ patient/ year |
|----------------------------|---|-------------|---------------|-----------------------|----------------------|
| Enfortumab vedotin | Surcharge for production of a parenteral preparation containing cytostatic agents | € 100 | 3 | 39 | € 3,900.00 |
| Cisplatin | Surcharge for production of a parenteral preparation containing cytostatic agents | € 100 | 1 | 13.0 | € 1,300.00 |
| Gemcitabine | Surcharge for production of a parenteral preparation containing cytostatic agents | € 100 | 3 | 39 | € 3,900.00 |
| Vinflunine | Surcharge for production of a parenteral preparation containing cytostatic agents | € 100 | 1 | 17.4 | € 1,740.00 |

- b) Adults with locally advanced or metastatic urothelial cancer who have previously received a platinum-containing chemotherapy and a PD-1 or PD-L1 inhibitor and who are ineligible for chemotherapy

| Designation of the therapy | Annual treatment costs/ patient |
|-----------------------------------|-----------------------------------|
| Medicinal product to be assessed: | |
| Enfortumab vedotin | € 141,589.50 |
| Best supportive care | Different from patient to patient |
| Appropriate comparator therapy: | |
| Best supportive care | Different from patient to patient |

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

Other SHI services:

| Designation of the therapy | Type of service | Costs/unit | Number/cycle | Number/patient/year | Costs/patient/year |
|----------------------------|---|------------|--------------|---------------------|--------------------|
| Enfortumab vedotin | Surcharge for production of a parenteral preparation containing cytostatic agents | € 100 | 3 | 39 | € 3,900.00 |

5. Medicinal products with new active ingredients pursuant to Section 35a, paragraph 3, sentence 4 SGB V that can be used in a combination therapy with enfortumab vedotin

Medicinal products with new active ingredients pursuant to Section 35a, paragraph 3, sentence 4 SGB V are medicinal products with the following new active ingredients which, on the basis of the marketing authorisation under Medicinal Products Act, can be used in a combination therapy with enfortumab vedotin for the treatment of adult patients with locally advanced or metastatic urothelial cancer who have previously received platinum-containing chemotherapy and a PD-1 or PD-L1 inhibitor:

- a) Adults with locally advanced or metastatic urothelial cancer who have previously received a platinum-containing chemotherapy and a PD-1 or PD-L1 inhibitor and who are eligible for chemotherapy

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

- b) Adults with locally advanced or metastatic urothelial cancer who have previously received a platinum-containing chemotherapy and a PD-1 or PD-L1 inhibitor and who are ineligible for chemotherapy

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