



# Resolution

of the Federal Joint Committee on an Amendment of the  
Pharmaceuticals Directive:

Annex XII – Benefit Assessment of Medicinal Products with  
New Active Ingredients according to Section 35a SGB V  
Nivolumab (new therapeutic indication: Gastric, gastro-  
oesophageal junction or oesophageal adenocarcinoma, CPS  $\geq$   
5, HER2-negative, first-line, combination with  
fluoropyrimidine- and platinum-based combination  
chemotherapy)

of 19 May 2022

At its session on 19 May 2022, 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 by the publication of the  
resolution of D Month YYYY (Federal Gazette, BAnz AT DD.MM.YYYY BX), as follows:

- I. In Annex XII, the following information shall be added after No. 4 to the information on  
the benefit assessment of Nivolumab in accordance with the resolution of 17 February  
2022:

Benefit assessment procedure comprises several resolutions.  
Please note the current version of the Pharmaceuticals Directive/Annex XII.

## **Nivolumab**

Resolution of: 19 May 2022

Entry into force on: 19 May 2022

Federal Gazette, BAnz AT DD. MM YYYY Bx

### **New therapeutic indication (according to the marketing authorisation of 19 October 2021):**

OPDIVO in combination with fluoropyrimidine- and platinum-based combination chemotherapy is indicated for the first-line treatment of adult patients with HER2-negative advanced or metastatic gastric, gastro-oesophageal junction or oesophageal adenocarcinoma whose tumours express PD-L1 with a combined positive score (CPS)  $\geq 5$ .

### **Therapeutic indication of the resolution (resolution of 19 May 2022):**

See new therapeutic indication according to marketing authorisation.

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

Adults with locally advanced or metastatic HER2-negative gastric, gastro-oesophageal junction or oesophageal adenocarcinoma which cannot be treated curatively and whose tumours express PD-L1 (combined positive score (CPS)  $\geq 5$ ); first-line therapy

##### **Appropriate comparator therapy:**

- Therapy according to doctor's instructions

**Extent and probability of the additional benefit of Nivolumab in combination with FOLFOX (5-fluorouracil + folinic acid + oxaliplatin) or XELOX (capecitabine + oxaliplatin) compared to FOLFOX or XELOX:**

Hint of a considerable additional benefit

##### **Study results according to endpoints:**

Adults with locally advanced or metastatic HER2-negative gastric, gastro-oesophageal junction or oesophageal adenocarcinoma which cannot be treated curatively and whose tumours express PD-L1 (combined positive score (CPS)  $\geq 5$ ); first-line therapy

## Summary of results for relevant clinical endpoints

| Endpoint category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Direction of effect/<br>risk of bias | Summary                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------|
| Mortality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ↑                                    | Advantage in overall survival                                                                   |
| Morbidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | n.a.                                 | There are no usable data for the benefit assessment                                             |
| Health-related quality of life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ↑                                    | Advantage in the FACT-Ga endpoint                                                               |
| Side effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ↓                                    | Disadvantages in the endpoint discontinuation due to AEs as well as in detail with specific AEs |
| <p>Explanations:</p> <p>↑: statistically significant and relevant positive effect with low/unclear reliability of data</p> <p>↓: statistically significant and relevant negative effect with low/unclear reliability of data</p> <p>↑↑: statistically significant and relevant positive effect with high reliability of data</p> <p>↓↓: statistically significant and relevant negative effect with high reliability of data</p> <p>↔: no statistically significant or relevant difference</p> <p>∅: There are no usable data for the benefit assessment.</p> <p>n.a.: not assessable</p> |                                      |                                                                                                 |

### CheckMate 649 study:<sup>1,2</sup>

- randomised, controlled, open study
- Nivolumab in combination with FOLFOX (5-FU + folinic acid + oxaliplatin) or XELOX (capecitabine + oxaliplatin) vs FOLFOX or XELOX
- Relevant sub-population: PD-L1-positive population (patients with CPS ≥ 5; 60.4 % of the total study population)

<sup>1</sup> Data from the dossier assessment of the IQWiG (A21-146) and from the addendum (A22-44), unless otherwise indicated.

<sup>2</sup> Data cut-off from 27.05.2021

## Mortality

| Endpoint                | Nivolumab + chemotherapy (FOLFOX or XELOX) |                                                                             | Chemotherapy (FOLFOX or XELOX) |                                                                             | Intervention vs control                                                   |
|-------------------------|--------------------------------------------|-----------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                         | N                                          | Median time to event in months [95% CI]<br><i>Patients with event n (%)</i> | N                              | Median time to event in months [95% CI]<br><i>Patients with event n (%)</i> | Hazard ratio [95% CI]<br>p value<br>Absolute difference (AD) <sup>a</sup> |
| <b>Overall survival</b> |                                            |                                                                             |                                |                                                                             |                                                                           |
|                         | 473                                        | 14.39 [13.08; 16.23]<br>363 (76.7)                                          | 482                            | 11.10 [10.02; 12.09]<br>416 (86.3)                                          | 0.70 [0.61; 0.81]<br>< 0.001<br>3.29 months                               |

## Morbidity

| Endpoint                                           | Nivolumab + chemotherapy (FOLFOX or XELOX) |                                                                             | Chemotherapy (FOLFOX or XELOX) |                                                                             | Intervention vs control                                                   |
|----------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                                                    | N                                          | Median time to event in months [95% CI]<br><i>Patients with event n (%)</i> | N                              | Median time to event in months [95% CI]<br><i>Patients with event n (%)</i> | Hazard ratio [95% CI]<br>p value<br>Absolute difference (AD) <sup>a</sup> |
| <b>Progression-free survival (PFS)<sup>b</sup></b> |                                            |                                                                             |                                |                                                                             |                                                                           |
|                                                    | 473                                        | 7.69 [7.03; 9.17]<br>328 (69.3)                                             | 482                            | 6.05 [5.55; 6.90]<br>350 (72.6)                                             | 0.68 [0.56; 0.81]<br><0.0001<br>1.64 months                               |
| <b>Disease symptomatology</b>                      |                                            |                                                                             |                                |                                                                             |                                                                           |
| Not assessed                                       |                                            |                                                                             |                                |                                                                             |                                                                           |
| <b>Health status</b>                               |                                            |                                                                             |                                |                                                                             |                                                                           |
| <b>EQ-5D VAS</b>                                   |                                            |                                                                             |                                |                                                                             |                                                                           |
| No usable data available                           |                                            |                                                                             |                                |                                                                             |                                                                           |

## Health-related quality of life

| Endpoint                                                                                        | Nivolumab + chemotherapy (FOLFOX or XELOX) |                                                                             | Chemotherapy (FOLFOX or XELOX) |                                                                             | Intervention vs control                                                   |
|-------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------|
|                                                                                                 | N                                          | Median time to event in months [95% CI]<br><i>Patients with event n (%)</i> | N                              | Median time to event in months [95% CI]<br><i>Patients with event n (%)</i> | Hazard ratio [95% CI]<br>p value<br>Absolute difference (AD) <sup>a</sup> |
| <b>Health-related quality of life - time to first deterioration under treatment<sup>c</sup></b> |                                            |                                                                             |                                |                                                                             |                                                                           |
| <b>FACT-Ga (Functional Assessment of Cancer Therapy-Gastric)</b>                                |                                            |                                                                             |                                |                                                                             |                                                                           |
| FACT-Ga                                                                                         | 387                                        | n.a.<br>56 (14.5)                                                           | 354                            | n.a.<br>[21.03; n.c.]<br>69 (19.5)                                          | 0.59<br>[0.41; 0.84]<br>0.006                                             |
| PWB (physical wellbeing)                                                                        | 393                                        | 9.79<br>[7.06; n.c.]<br>160 (40.7)                                          | 359                            | 7.39<br>[5.55; 17.77]<br>144 (40.1)                                         | 0.81<br>[0.64; 1.02]                                                      |
| SWB (social wellbeing)                                                                          | 393                                        | 15.57<br>[10.91; 38.47]<br>137 (34.9)                                       | 359                            | 11.07<br>[7.23; 16.66]<br>116 (32.3)                                        | 0.79<br>[0.61; 1.03]                                                      |
| EWB (emotional wellbeing)                                                                       | 389                                        | n.a.<br>[16.43; n.c.]<br>115 (29.6)                                         | 358                            | 15.54<br>[9.72; n.c.]<br>100 (27.9)                                         | 0.77<br>[0.58; 1.02]                                                      |
| FWB (functional wellbeing)                                                                      | 389                                        | 22.24<br>[11.56; n.c.]<br>134 (34.4)                                        | 358                            | 15.54<br>[10.28; n.c.]<br>116 (32.4)                                        | 0.89<br>[0.69; 1.16]                                                      |
| GaCS (Gastric Cancer Subscale)                                                                  | No data available <sup>d</sup>             |                                                                             |                                |                                                                             |                                                                           |

Benefit assessment procedure comprises several resolutions of the Pharmacovigilance Directive/Annex XII.  
Please note the current version of the Pharmacovigilance Directive/Annex XII.

## Side effects

| Endpoint                                                         | Nivolumab + chemotherapy<br>(FOLFOX or XELOX) |                                                                             | Chemotherapy<br>(FOLFOX or XELOX) |                                                                             | Intervention vs<br>control                                                      |
|------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|                                                                  | N                                             | Median<br>in months<br>[95% CI]<br><br><i>Patients with event n<br/>(%)</i> | N                                 | Median<br>in months<br>[95% CI]<br><br><i>Patients with event n<br/>(%)</i> | Hazard ratio<br>[95% CI]<br>p value<br>Absolute<br>difference (AD) <sup>a</sup> |
| <b>Adverse events (AEs) (presented additionally)<sup>e</sup></b> |                                               |                                                                             |                                   |                                                                             |                                                                                 |
|                                                                  | 468                                           | 0.13<br>[0.10; 0.20]<br>466 (99.6)                                          | 465                               | 0.16<br>[0.13; 0.20]<br>453 (97.4)                                          |                                                                                 |
| <b>Serious adverse events (SAE)<sup>e</sup></b>                  |                                               |                                                                             |                                   |                                                                             |                                                                                 |
|                                                                  | 468                                           | 8.74<br>[7.10; 12.29]<br>255 (54.5)                                         | 465                               | 11.04<br>[9.20; 19.09]<br>206 (44.3)                                        | 1.17<br>[0.97; 1.41]<br>0.107                                                   |
| <b>Severe adverse events (CTCAE grade ≥ 3)<sup>e</sup></b>       |                                               |                                                                             |                                   |                                                                             |                                                                                 |
|                                                                  | 468                                           | 2.79<br>[2.43; 3.19]<br>373 (79.7)                                          | 465                               | 3.25<br>[2.76; 3.71]<br>327 (70.3)                                          | 1.10<br>[0.95; 1.28]<br>0.194                                                   |
| <b>Discontinuation due to AEs<sup>e, f</sup></b>                 |                                               |                                                                             |                                   |                                                                             |                                                                                 |
|                                                                  | 468                                           | 7.75<br>[6.74; 10.51]<br>234 (50.0)                                         | 465                               | 15.18<br>[9.49; n.c.]<br>157 (33.8)                                         | 1.39<br>[1.13; 1.71]<br>0.002<br>7.43 months                                    |
| <b>Specific adverse events</b>                                   |                                               |                                                                             |                                   |                                                                             |                                                                                 |
| Immune-mediated AEs <sup>g</sup><br>(presented additionally)     | 468                                           | 1.48<br>[1.38; 1.74]<br>376 (80.3)                                          | 465                               | 2.89<br>[2.10; 4.01]<br>285 (61.3)                                          | -                                                                               |
| Immune-mediated SAEs <sup>g</sup>                                | 468                                           | n.a.<br>63 (13.5)                                                           | 465                               | n.a.<br>24 (5.2)                                                            | 2.59<br>[1.60; 4.18]<br>< 0.001                                                 |
| Immune-mediated severe AEs <sup>g</sup>                          | 468                                           | n.a.<br>[31.15; n.c.]<br>114 (24.4)                                         | 465                               | n.a.<br>58 (12.5)                                                           | 1.81<br>[1.31; 2.51]<br>< 0.001                                                 |
| Skin and subcutaneous tissue disorders (SOC, AE)                 | 468                                           | 12.58<br>[9.66; n.c.]<br>202 (43.2)                                         | 465                               | n.a.<br>119 (25.6)                                                          | 1.67<br>[1.33; 2.10]<br>< 0.001                                                 |
| Immune system disorders (SOC, AE)                                | 468                                           | n.a.<br>53 (11.3)                                                           | 465                               | n.a.<br>20 (4.3)                                                            | 2.50<br>[1.49; 4.18]<br>< 0.001                                                 |

| Endpoint                              | Nivolumab + chemotherapy (FOLFOX or XELOX) |                                                               | Chemotherapy (FOLFOX or XELOX) |                                                               | Intervention vs control                                                   |
|---------------------------------------|--------------------------------------------|---------------------------------------------------------------|--------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------|
|                                       | N                                          | Median in months [95% CI]<br><i>Patients with event n (%)</i> | N                              | Median in months [95% CI]<br><i>Patients with event n (%)</i> | Hazard ratio [95% CI]<br>p value<br>Absolute difference (AD) <sup>a</sup> |
| Amylase elevated (PT, severe AE)      | 468                                        | n.a.<br>14 (3.0)                                              | 465                            | n.a.<br>1 (0.2)                                               | 13.01<br>[1.70; 99.64]<br>0.001                                           |
| Peripheral neuropathy (PT, severe AE) | 468                                        | n.a.<br>28 (6.0)                                              | 465                            | n.a.<br>10 (2.2)                                              | 2.40<br>[1.16; 4.94]<br>0.015                                             |

<sup>a</sup> Indication of absolute difference (AD) only in case of statistically significant difference; own calculation

<sup>b</sup> Data from: European Medicines Agency. Assessment report: Opdivo; data cut-off from 27.05.2020

<sup>c</sup> Time to first deterioration under treatment. A decrease in the score by  $\geq 15\%$  of the scale range compared to start of the study is considered clinically relevant deterioration (scale range FACT-Ga: 0 to 184, PWB: 0 to 28, SWB: 0 to 28, EWB: 0 to 24, FWB: 0 to 28, GaCS: 0 to 76).

<sup>d</sup> The pharmaceutical company does not submit any evaluations over time for this subscale, over which the total score was calculated.

<sup>e</sup> Without detection of progression of the underlying disease

<sup>f</sup> Discontinuation of at least one active ingredient

<sup>g</sup> In each case, the operationalisation of the pharmaceutical company specific MedDRA PT collection from the endpoint "specific adverse events" ("select AEs") is used.

Abbreviations used:

AD = absolute difference; CTCAE = Common Terminology Criteria for Adverse Events; EWB = emotional wellbeing; FACT-Ga = Functional Assessment of Cancer Therapy-Gastric; FOLFOX = 5 fluorouracil + folinic acid + oxaliplatin; FWB = functional well-being; GaCS = Gastric Cancer Subscale; HR = hazard ratio; n.d. = no data available; CI = confidence interval; MedDRA = Medical Dictionary for Regulatory Activities; N = number of patients evaluated; n = number of patients with (at least one) event; n. c. = not calculable; n. a. = not achieved; PD-L1 = programmed cell death ligand 1; PT = preferred term; PWB = physical wellbeing; RCT = randomised controlled trial; SOC = system organ class; SWB = social well-being; VAS = visual analogue scale; vs = versus; XELOX = capecitabine + oxaliplatin

Benefit assessment procedure comprises 5 steps. Resolutions Annex III.  
Please note the current status of the pharmaceutical products.

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

Adults with locally advanced or metastatic HER2-negative gastric, gastro-oesophageal junction or oesophageal adenocarcinoma which cannot be treated curatively and whose tumours express PD-L1 (combined positive score (CPS)  $\geq$  5); first-line therapy

approx. 500 – 3,100 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 Opdivo (active ingredient: nivolumab) at the following publicly accessible link (last access: 4 March 2022):

[https://www.ema.europa.eu/en/documents/product-information/opdivoepar-product-information\\_en.pdf](https://www.ema.europa.eu/en/documents/product-information/opdivoepar-product-information_en.pdf)

Treatment with nivolumab should only be initiated and monitored by specialists in internal medicine, haematology, and oncology, internal medicine and gastroenterology, and specialists participating in the Oncology Agreement experienced in the treatment of adults with gastric, gastroesophageal junction or oesophageal carcinoma.

In accordance with the Medicines Agency requirements regarding additional risk minimisation measures, the pharmaceutical company must provide healthcare professionals and patients with a patient card. The patient card contains, in particular, instructions on the management of immune-mediated side effects potentially occurring with nivolumab as well as on infusion-related reactions. The prescribing doctors must discuss the risks of therapy with nivolumab with the patients.

## 4. Treatment costs

### Annual treatment costs<sup>3</sup>:

Adults with locally advanced or metastatic HER2-negative gastric, gastro-oesophageal junction or oesophageal adenocarcinoma which cannot be treated curatively and whose tumours express PD-L1 (combined positive score (CPS)  $\geq$  5); first-line therapy

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<sup>3</sup> The annual treatment costs shown refer to the first year of treatment.



| Designation of the therapy                                                                               | Annual treatment costs/ patient |
|----------------------------------------------------------------------------------------------------------|---------------------------------|
| Medicinal product to be assessed:                                                                        |                                 |
| <i>Nivolumab in combination with 5-fluorouracil and folinic acid and oxaliplatin (FOLFOX-4)</i>          |                                 |
| Nivolumab                                                                                                | € 76,217.74                     |
| 5-fluorouracil                                                                                           | € 1,841.09                      |
| Folinic acid                                                                                             | € 7,908.30                      |
| Oxaliplatin                                                                                              | € 9,894.77                      |
| Total                                                                                                    | € 95,861.91                     |
| <i>Nivolumab in combination with 5-fluorouracil and folinic acid and oxaliplatin (modified FOLFOX-6)</i> |                                 |
| Nivolumab                                                                                                | € 76,217.74                     |
| 5-fluorouracil                                                                                           | € 1,171.11                      |
| Folinic acid                                                                                             | € 7,298.87                      |
| Oxaliplatin                                                                                              | € 9,894.77                      |
| Total                                                                                                    | € 94,582.49                     |
| <i>Nivolumab in combination with capecitabine and oxaliplatin (XELOX)</i>                                |                                 |
| Nivolumab                                                                                                | € 76,217.74                     |
| Capecitabine                                                                                             | € 2,089.64                      |
| Oxaliplatin                                                                                              | € 13,102.90                     |
| Total                                                                                                    | € 91,410.28                     |
| Appropriate comparator therapy:                                                                          |                                 |
| Therapy according to doctor's instructions <sup>4</sup>                                                  |                                 |
| <i>Cisplatin in combination with 5-fluorouracil</i>                                                      |                                 |
| Cisplatin                                                                                                | € 2,277.14                      |
| 5-fluorouracil                                                                                           | € 1,811.34                      |
| Total                                                                                                    | € 4,088.48                      |
| Additionally required SHI services                                                                       | € 328.58 - € 421.62             |
| <i>Cisplatin in combination with 5-fluorouracil and folinic acid</i>                                     |                                 |
| Cisplatin                                                                                                | € 2,277.14                      |
| 5-fluorouracil                                                                                           | € 1,811.34                      |
| Folinic acid                                                                                             | € 4,865.91                      |
| Total                                                                                                    | € 8,954.39                      |
| Additionally required SHI services                                                                       | € 328.58 - € 421.62             |

<sup>4</sup> The costs are presented for the active ingredients that are each approved for at least one of the present localisations. The following medicinal product combinations are only approved for the treatment of gastric carcinoma: Cisplatin + capecitabine (XP), oxaliplatin + 5-fluorouracil + folinic acid (FOLFOX-4 and mod. FOLFOX-6), oxaliplatin + 5-fluorouracil + folinic acid (FLO), oxaliplatin + capecitabine (XELOX), docetaxel + cisplatin + 5-fluorouracil (DCF), docetaxel + oxaliplatin + infusional 5-fluorouracil + folinic acid (FLOT), epirubicin + cisplatin + capecitabine (ECX), epirubicin + oxaliplatin + capecitabine (EOX), epirubicin + cisplatin + 5-fluorouracil (ECF), epirubicin + oxaliplatin + 5-fluorouracil and S-1 (tegafur/gimeracil/oteracil) + cisplatin.

| Designation of the therapy                                                                  | Annual treatment costs/ patient |
|---------------------------------------------------------------------------------------------|---------------------------------|
| <i>Cisplatin in combination with capecitabine (XP)</i>                                      |                                 |
| Cisplatin                                                                                   | € 2,277.14                      |
| Capecitabine                                                                                | € 2,089.64                      |
| Total                                                                                       | € 4,366.78                      |
| Additionally required SHI services                                                          | € 328.58 - € 421.62             |
| <i>Oxaliplatin in combination with 5-fluorouracil and folinic acid (FOLFOX-4)</i>           |                                 |
| Oxaliplatin                                                                                 | € 9,894.77                      |
| 5-fluorouracil                                                                              | € 1,841.09                      |
| Folinic acid                                                                                | € 7,908.30                      |
| Total                                                                                       | € 19,644.17                     |
| <i>Oxaliplatin in combination with 5-fluorouracil and folinic acid (mod. FOLFOX-6)</i>      |                                 |
| Oxaliplatin                                                                                 | € 9,894.77                      |
| 5-fluorouracil                                                                              | € 1,171.11                      |
| Folinic acid                                                                                | € 7,298.87                      |
| Total                                                                                       | € 18,364.74                     |
| <i>Oxaliplatin in combination with 5-fluorouracil and folinic acid (FLO)</i>                |                                 |
| Oxaliplatin                                                                                 | € 9,894.77                      |
| 5-fluorouracil                                                                              | € 793.96                        |
| Folinic acid                                                                                | € 3,954.15                      |
| Total                                                                                       | € 14,642.88                     |
| <i>Oxaliplatin in combination with capecitabine (XELOX)</i>                                 |                                 |
| Oxaliplatin                                                                                 | € 13,102.90                     |
| Capecitabine                                                                                | € 2,089.64                      |
| Total                                                                                       | € 15,192.54                     |
| <i>Docetaxel in combination with cisplatin and 5-fluorouracil (DCF)</i>                     |                                 |
| Docetaxel                                                                                   | € 13,742.17                     |
| Cisplatin                                                                                   | € 1,991.08                      |
| 5-fluorouracil                                                                              | € 1,811.34                      |
| Total                                                                                       | € 17,544.59                     |
| <i>Docetaxel in combination with oxaliplatin and 5-fluorouracil and folinic acid (FLOT)</i> |                                 |
| Docetaxel                                                                                   | € 13,069.58                     |
| Oxaliplatin                                                                                 | € 9,894.77                      |
| 5-fluorouracil                                                                              | € 793.96                        |
| Folinic acid                                                                                | € 3,954.15                      |
| Total                                                                                       | € 27,712.46                     |
| <i>Epirubicin in combination with cisplatin and capecitabine (ECX)</i>                      |                                 |

| Designation of the therapy                                               | Annual treatment costs/ patient |
|--------------------------------------------------------------------------|---------------------------------|
| Epirubicin                                                               | € 4,964.22                      |
| Cisplatin                                                                | € 1,783.85                      |
| Capecitabine                                                             | € 2,285.87                      |
| Total                                                                    | € 9,033.94                      |
| Additionally required SHI services                                       | € 328.58 - € 421.62             |
| <i>Epirubicin in combination with oxaliplatin and capecitabine (EOX)</i> |                                 |
| Epirubicin                                                               | € 4,964.22                      |
| Oxaliplatin                                                              | € 13,102.90                     |
| Capecitabine                                                             | € 2,285.87                      |
| Total                                                                    | € 20,352.99                     |
| <i>Epirubicin in combination with cisplatin and 5-fluorouracil (ECF)</i> |                                 |
| Epirubicin                                                               | € 4,964.22                      |
| Cisplatin                                                                | € 1,783.85                      |
| 5-fluorouracil                                                           | € 4,427.45                      |
| Total                                                                    | € 11,175.52                     |
| Additionally required SHI services                                       | € 328.58 - € 421.62             |
| <i>Epirubicin in combination with oxaliplatin and 5-fluorouracil</i>     |                                 |
| Epirubicin                                                               | € 4,964.22                      |
| Oxaliplatin                                                              | € 13,102.90                     |
| 5-fluorouracil                                                           | € 4,427.45                      |
| Total                                                                    | € 22,531.11                     |
| <i>S-1 (tegafur/gimeracil/oteracil) in combination with cisplatin</i>    |                                 |
| S-1 (tegafur/ gimeracil/ oteracil)                                       | € 3,839.39                      |
| Cisplatin                                                                | € 686.58                        |
| Total                                                                    | € 4,525.97                      |
| Additionally required SHI services                                       | € 113.30 - € 145.39             |

Costs after deduction of statutory rebates (LAUER-TAXE® as last revised: 1 May 2022)

Please note: The current version of the pharmaceuticals Directive/Annex XII. Benefit assessment procedure comprises several resolutions.

**Other SHI services:**

| Designation of the therapy                                                                               | Type of service                                                                         | Costs/ unit | Number/ cycle | Number/ patient / year | Costs/ Patient/ year |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------|---------------|------------------------|----------------------|
| <b>Medicinal product to be assessed</b>                                                                  |                                                                                         |             |               |                        |                      |
| <i>Nivolumab in combination with 5-fluorouracil and folinic acid and oxaliplatin (FOLFOX 4)</i>          |                                                                                         |             |               |                        |                      |
| Nivolumab                                                                                                | Surcharge for the preparation of a parenteral solution containing monoclonal antibodies | € 71        | 1             | 26.1                   | € 1,853.10           |
| 5-fluorouracil<br><i>Bolus</i>                                                                           | Surcharge for production of a parenteral preparation containing cytostatic agents       | € 81        | 2             | 52.2                   | € 4,228.20           |
| 5-fluorouracil<br><i>22 h infusion</i>                                                                   | Surcharge for production of a parenteral preparation containing cytostatic agents       | € 81        | 2             | 52.2                   | € 4,228.20           |
| Folinic acid                                                                                             | Surcharge for production of a parenteral calcium folinate solution                      | € 39        | 2             | 52.2                   | € 2,035.80           |
| Oxaliplatin                                                                                              | Surcharge for production of a parenteral preparation containing cytostatic agents       | € 81        | 1             | 26.1                   | € 2,114.10           |
| <i>Nivolumab in combination with 5-fluorouracil and folinic acid and oxaliplatin (modified FOLFOX 6)</i> |                                                                                         |             |               |                        |                      |
| Nivolumab                                                                                                | Surcharge for the preparation of a parenteral solution containing monoclonal antibodies | € 71        | 1             | 26.1                   | € 1,853.10           |
| 5-fluorouracil<br><i>Bolus</i>                                                                           | Surcharge for production of a parenteral preparation containing cytostatic agents       | € 81        | 1             | 26.1                   | € 2,114.10           |
| 5-fluorouracil<br><i>46 h infusion</i>                                                                   | Surcharge for production of a parenteral preparation                                    | € 81        | 1             | 26.1                   | € 2,114.10           |

Please note that the current version of the Pharmaceuticals Directive/Annex XII. Benefit assessment procedure comprises several resolutions.

|                                                                           |                                                                                         |      |   |      |            |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------|---|------|------------|
|                                                                           | containing cytostatic agents                                                            |      |   |      |            |
| Folinic acid                                                              | Surcharge for production of a parenteral calcium folinate solution                      | € 39 | 1 | 26.1 | € 1,017.90 |
| Oxaliplatin                                                               | Surcharge for production of a parenteral preparation containing cytostatic agents       | € 81 | 1 | 26.1 | € 2,114.10 |
| <i>Nivolumab in combination with capecitabine and oxaliplatin (XELOX)</i> |                                                                                         |      |   |      |            |
| Nivolumab                                                                 | Surcharge for the preparation of a parenteral solution containing monoclonal antibodies | € 71 | 1 | 17.4 | € 1,235.40 |
| Oxaliplatin                                                               | Surcharge for production of a parenteral preparation containing cytostatic agents       | € 81 | 1 | 17.4 | € 1,409.40 |
| Appropriate comparator therapy:                                           |                                                                                         |      |   |      |            |
| <i>Cisplatin in combination with 5-fluorouracil</i>                       |                                                                                         |      |   |      |            |
| Cisplatin                                                                 | Surcharge for production of a parenteral preparation containing cytostatic agents       | € 81 | 1 | 17.4 | € 1,409.40 |
| 5-fluorouracil                                                            | Surcharge for production of a parenteral preparation containing cytostatic agents       | € 81 | 5 | 87   | € 7047.00  |
| <i>Cisplatin in combination with 5-fluorouracil and folinic acid</i>      |                                                                                         |      |   |      |            |
| Cisplatin                                                                 | Surcharge for production of a parenteral preparation containing cytostatic agents       | € 81 | 1 | 17.4 | € 1,409.40 |
| 5-fluorouracil                                                            | Surcharge for production of a parenteral preparation                                    | € 81 | 5 | 87   | € 7,047.00 |

|                                                                                        |                                                                                   |      |   |      |            |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|---|------|------------|
|                                                                                        | containing cytostatic agents                                                      |      |   |      |            |
| Folinic acid                                                                           | Surcharge for production of a parenteral calcium folinate solution                | € 39 | 1 | 17.4 | € 678.60   |
| <i>Cisplatin + capecitabine (XP)</i>                                                   |                                                                                   |      |   |      |            |
| Cisplatin                                                                              | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |
| <i>Oxaliplatin in combination with 5-fluorouracil and folinic acid (FOLFOX-4)</i>      |                                                                                   |      |   |      |            |
| Oxaliplatin                                                                            | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 26.1 | € 2,114.10 |
| 5-fluorouracil<br><i>Bolus</i>                                                         | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 2 | 52.2 | € 4,228.20 |
| 5-fluorouracil<br><i>22 h infusion</i>                                                 | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 2 | 52.2 | € 4,228.20 |
| Folinic acid                                                                           | Surcharge for production of a parenteral calcium folinate solution                | € 39 | 2 | 52.2 | € 2,035.80 |
| <i>Oxaliplatin in combination with 5-fluorouracil and folinic acid (mod. FOLFOX-6)</i> |                                                                                   |      |   |      |            |
| Oxaliplatin                                                                            | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 26.1 | € 2,114.10 |
| 5-fluorouracil<br><i>Bolus</i>                                                         | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 26.1 | € 2,114.10 |
| 5-fluorouracil<br><i>46 h infusion</i>                                                 | Surcharge for production of a                                                     | € 81 | 1 | 26.1 | € 2,114.10 |

|                                                                              |                                                                                   |      |   |      |            |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|---|------|------------|
|                                                                              | parenteral preparation containing cytostatic agents                               |      |   |      |            |
| Folinic acid                                                                 | Surcharge for production of a parenteral calcium folinate solution                | € 39 | 1 | 26.1 | € 1,017.90 |
| <i>Oxaliplatin in combination with 5-fluorouracil and folinic acid (FLO)</i> |                                                                                   |      |   |      |            |
| Oxaliplatin                                                                  | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 26.1 | € 2,114.10 |
| 5-fluorouracil                                                               | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 26.1 | € 2,114.10 |
| Folinic acid                                                                 | Surcharge for production of a parenteral calcium folinate solution                | € 39 | 1 | 26.1 | € 1,017.90 |
| <i>Oxaliplatin in combination with capecitabine (XELOX)</i>                  |                                                                                   |      |   |      |            |
| Oxaliplatin                                                                  | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |
| <i>Docetaxel in combination with cisplatin and 5-fluorouracil (DCF)</i>      |                                                                                   |      |   |      |            |
| Docetaxel                                                                    | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |
| Cisplatin                                                                    | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |
| 5-fluorouracil                                                               | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 5 | 87   | € 7,047.00 |

| <i>Docetaxel in combination with oxaliplatin and 5-fluorouracil and folinic acid (FLOT)</i> |                                                                                   |      |   |      |            |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|---|------|------------|
| Docetaxel                                                                                   | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 26.1 | € 2,114.10 |
| Oxaliplatin                                                                                 | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 26.1 | € 2,114.10 |
| 5-fluorouracil                                                                              | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 26.1 | € 2,114.10 |
| Folinic acid                                                                                | Surcharge for production of a parenteral calcium folinate solution                | € 39 | 1 | 26.1 | € 1,017.90 |
| <i>Epirubicin in combination with cisplatin and capecitabine (ECX)</i>                      |                                                                                   |      |   |      |            |
| Epirubicin                                                                                  | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |
| Cisplatin                                                                                   | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |
| <i>Epirubicin in combination with oxaliplatin and capecitabine (EOX)</i>                    |                                                                                   |      |   |      |            |
| Epirubicin                                                                                  | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |
| Oxaliplatin                                                                                 | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |



| <i>Epirubicin in combination with cisplatin and 5-fluorouracil (ECF)</i> |                                                                                   |      |   |      |            |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|---|------|------------|
| Epirubicin                                                               | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |
| Cisplatin                                                                | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |
| 5-fluorouracil                                                           | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 365  | € 29,565   |
| <i>Epirubicin in combination with oxaliplatin and 5-fluorouracil</i>     |                                                                                   |      |   |      |            |
| Epirubicin                                                               | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |
| Oxaliplatin                                                              | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 17.4 | € 1,409.40 |
| 5-fluorouracil                                                           | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 365  | € 29,565   |
| <i>S-1 (tegafur/gimeracil/oteracil) in combination with cisplatin</i>    |                                                                                   |      |   |      |            |
| Cisplatin                                                                | Surcharge for production of a parenteral preparation containing cytostatic agents | € 81 | 1 | 6    | € 486      |

Please note that the current version of the Pharmaceuticals Directive/Annex XII. Benefit assessment procedure comprises several resolutions.

**II. The resolution will enter into force on the day of its publication on the website of the G-BA on 19 May 2022.**

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, 19 May 2022

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

Prof. Hecken

*Benefit assessment procedure comprises several resolutions.  
Please note the current version of the Pharmaceuticals Directive/Annex XII.*