

**USE OF THE MEDICAL PRODUCT OPDIVO 100 mg capsules for solution for injection**

**2. QUALITATIVE AND QUANTITATIVE COMPOSITION** Each mL of concentrate for solution for injection contains 10 mg of nivolumab. One vial of 4 mL contains 40 mg of nivolumab. One vial of 10 mL contains 100 mg of nivolumab. One vial of 12 mL contains 120 mg of nivolumab. One vial of 24 mL contains 240 mg of nivolumab. Nivolumab is produced in Chinese hamster ovary cells by recombinant DNA technology, using known effect cells of concentrate contents 0.1 mmol (or 2.5 mg) sodium. For the full list of excipients, see section 6.1. **3. PHARMACEUTICAL FORM** Concentrate for solution for injection (sterile concentrate). Clear, to opalescent, colourless to pale yellow liquid that may contain few light particles. The solution has a pH of approximately 6.0 and an osmolality of approximately 340 mOsm/kg. **4. CLINICAL PARTICULARS**

**4.1 Therapeutic indications** **Melanoma** OPDIVO as monotherapy or in combination with ipilimumab is indicated for the treatment of advanced (unresectable or metastatic) melanoma in adults. Relative to nivolumab monotherapy, an increase in progression-free survival (PFS) and overall survival (OS) for the combination of nivolumab with ipilimumab is established only in patients with low tumour PD-L1 expression (see sections 4.4 and 5.1). **Adjuvant treatment of melanoma** OPDIVO as monotherapy is indicated for the adjuvant treatment of adults with melanoma with involvement of lymph nodes or metastatic disease who have undergone complete resection (see section 5.1). **Non-small cell lung cancer (NSCLC)** OPDIVO in combination with ipilimumab and 2 cycles of platinum-based chemotherapy is indicated for the first-line treatment of metastatic non-small cell lung cancer in adults whose tumours have no sensitising EGFR mutation or ALK translocation. OPDIVO as monotherapy is indicated for the treatment of locally advanced or metastatic non-small cell lung cancer after prior chemotherapy in adults. **Malignant pleural mesothelioma (MPM)** OPDIVO in combination with ipilimumab is indicated for the first-line treatment of adult patients with unresectable malignant pleural mesothelioma. **Renal cell carcinoma (RCC)** OPDIVO as monotherapy is indicated for the treatment of advanced renal cell carcinoma after prior therapy in adults. OPDIVO in combination with ipilimumab is indicated for the first-line treatment of adult patients with intermediate-/poor-risk advanced renal cell carcinoma (see section 5.1). OPDIVO in combination with cabozantinib is indicated for the first-line treatment of adult patients with advanced renal cell carcinoma (see section 5.1). **Classical Hodgkin lymphoma (cHL)** OPDIVO as monotherapy is indicated for the treatment of adult patients with relapsed or refractory classical Hodgkin lymphoma after autologous stem cell transplant (ASCT) and treatment with etoposide/breast. Squamous cell cancer of the head and neck (SCCHN) OPDIVO as monotherapy is indicated for the treatment of recurrent or metastatic squamous cell cancer of the head and neck in adults progressing on or after platinum-based therapy (see section 5.1). **Urothelial carcinoma** OPDIVO as monotherapy is indicated for the treatment of locally advanced unresectable or metastatic urothelial carcinoma in adults after failure of prior platinum-containing therapy. **Mismatch repair deficient (dMMR) or microsatellite instability high (MSI-H) colorectal cancer (CRC)** OPDIVO in combination with ipilimumab is indicated for the treatment of adult patients with mismatch repair deficient or microsatellite instability high metastatic colorectal cancer after prior fluoropyrimidine-based combination chemotherapy (see section 5.1). **Desmoplastic squamous cell carcinoma (DSCL)** OPDIVO as monotherapy is indicated for the treatment of adult patients with unresectable advanced, recurrent or metastatic desmoplastic squamous cell carcinoma after prior fluoropyrimidine- and platinum-based combination chemotherapy. **Adjuvant treatment of oesophageal or gastro-oesophageal junction cancer (GC or GEJC)** OPDIVO as monotherapy is indicated for the treatment of adult patients with oesophageal or gastro-oesophageal junction cancer who have residual pathologic disease following prior adjuvant chemotherapy (see section 5.1). **Gastric, gastro-oesophageal junction (GEJ) or oesophageal adenocarcinoma** 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)  $\geq 5$ . **4.2 Posology and method of administration** Treatment should be initiated and supervised by physicians experienced in the treatment of cancer. **PD-L1 testing** is specified in the indication, patient selection for treatment with OPDIVO based on the tumour expression of PD-L1 should be confirmed by a validated test (see sections 4.1, 4.4 and 5.1). **Posology OPDIVO as monotherapy** The recommended dose of OPDIVO is 240 mg intravenously over 90 minutes every 2 weeks for 4 dosing cycles (see section 5.1) depending on the indication, as presented in Table 1. **Table 1. Recommended dose and infusion time for intravenous administration of nivolumab monotherapy indication** **Melanoma (advanced or adjuvant treatment)**, **Renal cell carcinoma OPDIVO as monotherapy**: 240 mg every 2 weeks over 30 minutes or 480 mg every 4 weeks over 60 minutes; **Desmoplastic squamous cell carcinoma** Recommended dose and infusion time: 240 mg every 2 weeks over 30 minutes **As per monotherapy indication in section 4.1**. If melanoma or RCC, GC or GEJC patients need to be switched from the 240 mg every 2 weeks schedule to the 480 mg every 4 weeks schedule, the first 480 mg dose should be administered two weeks after the last 240 mg dose. Conversely, if patients need to be switched from the 480 mg every 4 weeks schedule to the 240 mg every 2 weeks schedule, the first 240 mg dose should be administered four weeks after the last 480 mg dose. **OPDIVO in combination with ipilimumab Melanoma** The recommended dose is 1 mg/kg nivolumab in combination with 3 mg/kg ipilimumab administered intravenously every 3 weeks for the first 4 doses. This is then followed by a second phase in which nivolumab monotherapy is administered intravenously at either 240 mg every 2 weeks or 480 mg every 4 weeks, as presented in Table 2. For the monotherapy phase, the first dose of nivolumab should be administered 3 weeks after the last dose of the combination of nivolumab and ipilimumab. **OPDIVO in combination with ipilimumab Melanoma** The recommended dose is 1 mg/kg nivolumab in combination with 3 mg/kg ipilimumab administered intravenously every 3 weeks for the first 4 dosing cycles; 1 mg/kg over 30 minutes. **OPDIVO in combination with cabozantinib Renal cell carcinoma** The recommended dose is nivolumab administered intravenously at either 240 mg every 2 weeks or 480 mg every 4 weeks in combination with 40 mg cabozantinib administered orally every day. **RCC 4. Recommended dose and infusion times for intravenous administration of nivolumab in combination with ipilimumab for melanoma** Nivolumab Combination phase, every 3 weeks for 4 dosing cycles: 1 mg/kg over 30 minutes Monotherapy phase, 240 mg every 2 weeks over 30 minutes or 480 mg every 4 weeks over 60 minutes **Cabozantinib** Combination phase, 40 mg once daily **OPDIVO in combination with ipilimumab and chemotherapy** **Non-small cell lung cancer** The recommended dose is 360 mg nivolumab administered intravenously over 30 minutes every 3 weeks in combination with 1 mg/kg ipilimumab administered intravenously over 30 minutes every 6 weeks. **Desmoplastic squamous cell carcinoma** Recommended dose and infusion time: 240 mg every 2 weeks over 30 minutes or 480 mg every 4 weeks over 60 minutes **Cabozantinib** Combination phase, 40 mg once daily **OPDIVO in combination with ipilimumab and chemotherapy** **Non-small cell lung cancer** The recommended dose is 360 mg nivolumab administered intravenously over 30 minutes every 3 weeks in combination with 1 mg/kg ipilimumab administered intravenously over 30 minutes every 6 weeks; and platinum-based chemotherapy administered every 3 weeks. After completion of 2 cycles of chemotherapy, treatment is continued with 360 mg nivolumab administered intravenously every 3 weeks in combination with 1 mg/kg ipilimumab every 6 weeks. Treatment is recommended until disease progression, unacceptable toxicity, or up to 24 months in patients without disease progression. **OPDIVO in combination with chemotherapy Gastric, gastro-oesophageal junction or oesophageal adenocarcinoma** The recommended dose is 360 mg nivolumab administered intravenously over 30 minutes in combination with fluoropyrimidine- and platinum-based combination chemotherapy administered every 3 weeks or 240 mg nivolumab administered intravenously over 30 minutes in combination with fluoropyrimidine- and platinum-based combination chemotherapy administered every 2 weeks (see section 5.1). Treatment with nivolumab is recommended until disease progression, unacceptable toxicity, or up to 24 months in patients without disease progression. **Duration of treatment** treatment with OPDIVO, either as a monotherapy or in combination with ipilimumab, should be continued as long as clinical benefit is observed or until treatment is no longer tolerated by the patient (and up to maximum duration of therapy if specified for an indication). For adjuvant therapy, the maximum treatment duration with OPDIVO is 12 months. For OPDIVO in combination with cabozantinib, OPDIVO should be continued until disease progression, unacceptable toxicity, or up to 24 months in patients without disease progression. Cabozantinib should be continued until disease progression or unacceptable toxicity. Refer to the Summary of Product Characteristics (SPC) for cabozantinib. **Adverse reactions** (i.e., an initial transient increase in tumour size or small new lesions within the first few months followed by tumour shrinkage) have been observed. It is recommended to continue treatment with nivolumab or nivolumab in combination with ipilimumab for clinically stable patients with initial evidence of disease progression until disease progression is confirmed. Dose escalation or reduction is not recommended for OPDIVO as monotherapy or in combination with other therapeutic agents. Dosing delay or discontinuation may be required based on individual safety and tolerability. Guidelines for permanent discontinuation or withholding of doses are described in Table 5. Detailed guidelines for the management of immune-related adverse reactions are described in section 4.4. When nivolumab is administered in combination with other therapeutic agents, refer to the SPC of these other combination therapy agents regarding dosing. **Table 5. Recommended treatment modifications for OPDIVO or OPDIVO in combination** **Immune-related pneumonitis** Severity: Grade 2 pneumonitis (treatment modification: Withhold dose(s) until symptoms resolve, radiographic abnormalities improve, and management with corticosteroids is complete) Severity: Grade 3 or 4 pneumonitis (treatment modification: Permanently discontinue treatment) **Immune-related colitis** Severity: Grade 2 diarrhoea or colitis (treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids, if needed, is complete) Severity: Grade 3 diarrhoea or colitis (treatment modification: Permanently discontinue treatment) **Immune-related hepatitis** Severity: Grade 2 hepatitis (treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids is complete) Severity: Grade 3 hepatitis (treatment modification: Permanently discontinue treatment) **Immune-related endocrinopathy** Severity: Grade 2 endocrinopathy (treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids, if needed, is complete) Severity: Grade 3 endocrinopathy (treatment modification: Permanently discontinue treatment) **Immune-related dermatitis** Severity: Grade 2 dermatitis (treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids is complete) Severity: Grade 3 dermatitis (treatment modification: Permanently discontinue treatment) **Immune-related nephritis** Severity: Grade 2 nephritis (treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids is complete) Severity: Grade 3 nephritis (treatment modification: Permanently discontinue treatment) **Immune-related myositis** Severity: Grade 2 myositis (treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids is complete) Severity: Grade 3 myositis (treatment modification: Permanently discontinue treatment) **Immune-related vasculitis** Severity: Grade 2 vasculitis (treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids is complete) Severity: Grade 3 vasculitis (treatment modification: Permanently discontinue treatment) **Other immune-related adverse reactions** Severity: Grade 3 first occurrence (treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids, if needed, is complete) Severity: Grade 4 or recurrent Grade 3 or persistent Severity: Grade 2 or 3 despite treatment modification; inability to reduce corticosteroid dose to 10 mg prednisone or equivalent per day (treatment modification: Permanently discontinue treatment) Toxicity grades are in accordance with National Cancer Institute Common Terminology Criteria for Adverse Events Version 4.0 (NCCTCAE v4.0). During administration of the second phase of treatment (nivolumab monotherapy) following combination treatment, permanently discontinue treatment if Grade 3 diarrhoea or colitis occurs. **Recommendation for the use of hormone replacement therapy is provided in section 4.4.** The safety of re-initiating nivolumab or nivolumab in combination with ipilimumab therapy in patients previously experiencing immune-related myositis is not known. OPDIVO as monotherapy or in combination with other therapeutic agents should be permanently discontinued for Grade 4 or recurrent Grade 3 adverse reactions, Persistent Grade 2 or 3 adverse reactions despite management. Patients treated with OPDIVO must be given the patient alert card and be informed about the risks of OPDIVO (see also package leaflet). When OPDIVO is administered in combination with ipilimumab, if either agent is withheld, the other agent should also be withheld. If dosing is resumed after a delay, either the combination treatment or OPDIVO monotherapy could be resumed based on the evaluation of the individual patient. When OPDIVO is administered in combination with chemotherapy, refer to the SPC of the other combination therapy agents regarding dosing. Dose escalation or reduction is not recommended for OPDIVO. If any agents are withheld, the other agents may be continued. If dosing is resumed after a delay, either the combination treatment, OPDIVO monotherapy or chemotherapy alone could be resumed based on the evaluation of the individual patient. **OPDIVO in combination with cabozantinib in RCC** When OPDIVO is used in combination with cabozantinib, the above treatment modifications in Table 5 also apply to the OPDIVO component. In addition, for liver enzyme elevations, in patients with RCC being treated with OPDIVO in combination with cabozantinib:  $\text{ALT}$  or  $\text{AST}$   $\geq 3$  times ULN  $\geq 10$  times ULN with concurrent total bilirubin  $\geq 2$  times ULN, both OPDIVO and cabozantinib should be withheld until these adverse reactions recover to Grades  $\leq 1$ . Corticosteroid therapy may be considered. Rechallenge with a single molecule or rechallenge with both medicines after recovery may be attempted, if rechallenging with cabozantinib, refer to cabozantinib SPC.  $\text{ALT}$  or  $\text{AST}$   $\geq 3$  times ULN  $\geq 10$  times ULN  $\geq 3$  times ULN with concurrent total bilirubin  $\geq 2$  times ULN, both OPDIVO and cabozantinib should be permanently discontinued and corticosteroid therapy may be considered. **Special populations Paediatric population** The safety and efficacy of OPDIVO in children below 18 years of age have not been established. Currently available



[illegible]



Grade 1, 5/Grade 2, 7/Grade 3, and 1/Grade 4), hypophosphatemia (5/Grade 2 and 1/Grade 3), adrenal insufficiency (including secondary adrenocortical insufficiency and adrenocortical insufficiency acute) (1/Grade 1, 15/Grade 2, and 8/Grade 3), diabetes mellitus (including Type 1 diabetes mellitus) (1/Grade 1, 4/Grade 2 and 2/Grade 3), and diabetic ketoacidosis (2/Grade 3) were reported. Median time to onset of these endocrinopathies was 2.7 months (range: 0.3-29.1). Resolution occurred in 239 patients (48.7%). Time to resolution ranged from 0.4 to 150.0+ weeks. In patients treated with nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma, the incidence of thyroid disorders was 25.2% (113/448). Grade 2 and Grade 3 thyroid disorders were reported in 14.5% (65/448) and 1.3% (6/448) of patients, respectively. Grade 2 and Grade 3 hypophysitis (including lymphocytic hypophysitis) occurred in 5.8% (26/448) and 2.0% (9/448) of patients, respectively. Grade 2 and Grade 3 hypophysitis occurred in 0.4% (2/448) and 0.7% (3/448) of patients, respectively. Grade 2, Grade 3, and Grade 4 adrenal insufficiency (including secondary adrenocortical insufficiency) occurred in 1.6% (7/448), 1.3% (6/448) and 0.2% (1/448) of patients, respectively. Grade 1, Grade 2, Grade 3, and Grade 4 diabetes mellitus and Grade 4 diabetic ketoacidosis were each reported in 0.2% (1/448) of patients. Median time to onset of these endocrinopathies was 1.9 months (range: 0.0-28.1). Resolution occurred in 64 patients (45.4%). Time to resolution ranged from 0.4 to 155.4+ weeks. In patients treated with nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI-H CRC, the incidence of thyroid disorders was 26.9% (179/666). Grade 2 and Grade 3 thyroid disorders were reported in 15.3% (102/666) and 1.7% (11/666) of patients, respectively. Hypophysitis occurred in 3.9% (26/666) of patients. Grade 2, Grade 3, and Grade 4 cases were reported in 0.8% (5/666), 2.3% (15/666), and 0.3% (2/666) of patients, respectively. Grade 2 hypophysitis occurred in 0.5% (3/666) of patients. Grade 2, Grade 3, and Grade 4 adrenal insufficiency (including secondary adrenocortical insufficiency) occurred in 3.5% (23/666), 2.0% (13/666) and 0.3% (2/666) of patients, respectively. Diabetes mellitus including Type 1 diabetes mellitus (2/Grade 2, 1/Grade 3, and 2/Grade 4), and diabetic ketoacidosis (1/Grade 4) were reported. Median time to onset of these endocrinopathies was 2.1 months (range: 0.0-27.2). Resolution occurred in 89 patients (41.4%). Time to resolution ranged from 0.4 to 257.1+ weeks. In patients treated with nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in MPN, the incidence of thyroid disorders was 14% (43/300). Grade 2 and Grade 3 thyroid disorders were reported in 9.3% (28/300) and 1.3% (4/300) of patients, respectively. Hypophysitis occurred in 2% (6/300) of patients. Grade 2 cases were reported in 1.3% (4/300) of patients. Grade 2 and Grade 3 hypophysitis occurred in 1.0% (3/300) and 1.0% (3/300) of patients, respectively. Grade 2 and Grade 3 adrenal insufficiency occurred in 1.7% (5/300) and 0.3% (1/300) of patients, respectively. Median time to onset of these endocrinopathies was 2.8 months (range: 0.5-20.8). Resolution occurred in 17 patients (32.7%). Time to resolution ranged from 0.3 to 144.1+ weeks. In patients treated with nivolumab 240 mg or 360 mg in combination with chemotherapy in gastric, GEJ or oesophageal adenocarcinoma, the incidence of thyroid disorders was 12.3% (96/782). Grade 2 thyroid disorder was reported in 6% (47/782) patients. Grade 3 hypophysitis occurred in 0.1% (1/782) of patients. Grade 2 and Grade 3 hypophysitis occurred in 0.3% (2/782) and 0.3% (2/782) of patients, respectively. Grade 2 and Grade 3 adrenal insufficiency occurred in 0.4% (3/782) and 0.1% (1/782) of patients, respectively. Grade 2 and Grade 3 diabetes mellitus including Type 1 diabetes mellitus were reported in 0.3% (2/782) of patients. Median time to onset of these endocrinopathies was 15.0 weeks (range: 2.0-124.3). Resolution occurred in 46 patients (43%). Time to resolution ranged from 0.4 to 139.1+ weeks. In patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 6 weeks and chemotherapy in NSCLC, the incidence of thyroid disorders was 24% (86/358). Grade 2 and Grade 3 thyroid disorders were reported in 12.3% (44/358) and 0.3% (1/358) of patients, respectively. Hypophysitis occurred in 1.4% (5/358) of patients. Grade 2 and Grade 3 cases were reported in 0.6% (2/358) and 0.8% (3/358) of patients, respectively. Grade 2 hypophysitis occurred in 0.3% (1/358) of patients. Grade 2 and Grade 3 adrenal insufficiency occurred in 1.7% (6/358) and 1.4% (5/358) of patients, respectively. Diabetes mellitus including Type 1 diabetes mellitus was not reported. Median time to onset of these endocrinopathies was 12.1 weeks (range: 1.9-58.3). Resolution occurred in 30 patients (35.3%). Time to resolution ranged from 1.4 to 72.4+ weeks. In patients treated with nivolumab 240 mg in combination with cabozantinib 40 mg in RCC, the incidence of thyroid disorders was 43.1% (138/320). Grade 2 and Grade 3 thyroid disorders were reported in 23.1% (74/320) and 0.9% (3/320) of patients, respectively. Hypophysitis occurred in 0.6% (2/320) of patients. Adrenal insufficiency (including secondary adrenocortical insufficiency) occurred in 4.7% (15/320) of patients. Grade 2 and Grade 3 adrenal insufficiency cases were reported in 2.2% (7/320) and 1.9% (6/320) of patients, respectively. Median time to onset of these endocrinopathies was 12.3 weeks (range: 2.0-89.7 weeks). Resolution occurred in 50 patients (35.2%). Time to resolution ranged from 0.9 to 132.0+ weeks. **Immunorelated skin adverse reactions** In patients treated with nivolumab monotherapy, the incidence of rash was 28.4% (1072/3771). The majority of cases were Grade 1 in severity reported in 21.7% (818/3771) of patients. Grade 2 and Grade 3 cases were reported 5.4% (204/3771) and 1.3% (50/3771) of patients respectively. Median time to onset was 1.4 months (range: 0.0-27.9). Resolution occurred in 677 patients (63.7%) with a median time to resolution of 18.4 weeks (0.1-163.1). In patients treated with nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma, the incidence of rash was 65.0% (291/448). Grade 2 and Grade 3 cases were reported in 20.3% (91/448) and 7.6% (34/448) of patients, respectively. Median time to onset was 0.5 months (range: 0.0-19.4). Resolution occurred in 191 patients (65.9%) with a median time to resolution of 11.4 weeks (range: 0.1-150.1). In patients treated with nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI-H CRC, the incidence of rash was 47.7% (318/666). Grade 2 and Grade 3 cases were reported in 13.7% (91/666) and 3.9% (26/666) of patients, respectively. Median time to onset was 1.0 months (range: 0.0-33.8). Resolution occurred in 228 patients (71.9%) with a median time to resolution of 12.1 weeks (range: 0.1-268.7). In patients treated with nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in MPN, the incidence of rash was 36.0% (108/300). Grade 2 and Grade 3 cases were reported in 10.3% (31/300) and 3.0% (9/300) of patients, respectively. Median time to onset was 1.6 months (range: 0.0-22.3). Resolution occurred in 71 patients (66.4%) with a median time to resolution of 12.1 weeks (range: 0.4-146.4). In patients treated with nivolumab 240 mg or 360 mg in combination with chemotherapy in gastric, GEJ or oesophageal adenocarcinoma, the incidence of rash was 27.4% (214/782). Grade 2 and Grade 3 cases were reported in 7% (55/782) and 3.3% (26/782) of patients, respectively. Median time to onset was 9.6 weeks (range: 0.1-97.4). Resolution occurred in 124 patients (57.9%) with a median time to resolution of 23.4 weeks (range: 0.1-153.6). In patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 6 weeks and chemotherapy in NSCLC, the incidence of rash was 37.7% (135/358). Grade 2, Grade 3, and Grade 4 cases were reported in 11.5% (41/358), 4.2% (14/358), and 0.3% (1/358) of patients, respectively. Median time to onset was 3.3 weeks (range: 0.1-83.1). Resolution occurred in 96 patients (71.6%) with a median time to resolution of 9.4 weeks (range: 0.1+84.1). In patients treated with nivolumab 240 mg in combination with cabozantinib 40 mg in RCC, the incidence of rash was 62.8% (201/320). Grade 2 and Grade 3 cases were reported in 23.1% (74/320) and 10.6% (34/320) of patients, respectively. Median time to onset was 6.14 weeks (range: 0.1-104.4 weeks). Resolution occurred in 137 patients (68.2%) with a median time to resolution of 18.1 weeks (range: 0.1-130.6+ weeks). Rare cases of SJS and TEN some of them with fatal outcome have been observed (see sections 4.2 and 4.4). **Infusion reactions** In patients treated with nivolumab monotherapy, the incidence of hypersensitivity/infusion reactions was 3.8% (144/3771), including 7 Grade 3 and 3 Grade 4 cases. In patients treated with nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma, the incidence of hypersensitivity/infusion reactions was 3.8% (17/448); all were Grade 1 or 2 in severity. Grade 2 cases were reported in 2.4% (16/666) of patients. Median time to onset was 0.7 months (range: 0.0-22.6). Resolution occurred in 23 patients (92.0%) with a median time to resolution of 0.1 weeks (range: 0.1-79.1). In patients treated with nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in MPN, the incidence of hypersensitivity/infusion reactions was 12% (36/300). Grade 2 and Grade 3 cases were reported in 5.0% (15/300) and 1.3% (4/300) of patients, respectively. In patients treated with nivolumab 240 mg or 360 mg in combination with chemotherapy in gastric, GEJ or oesophageal adenocarcinoma, the incidence of hypersensitivity/infusion reactions was 14.2% (111/782). Grade 2, Grade 3, and Grade 4 cases were reported in 8.8% (69/782), 1.9% (15/782) and 0.3% (2/782) of patients, respectively. In patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 6 weeks and chemotherapy in NSCLC, the incidence of hypersensitivity/infusion reactions was 4.7% (17/358). Grade 2, Grade 3, and Grade 4 cases were reported in 2.8% (10/358), 0.3% (1/358), and 0.3% (1/358) of patients, respectively. In patients treated with nivolumab 240 mg in combination with cabozantinib 40 mg in RCC, the incidence of hypersensitivity/infusion reactions was 2.5% (8/320). In 8 patients were Grade 1 or 2 in severity. Grade 2 cases were reported in 0.3% (1/320) of patients. **Complications of allogeneic HCT in classical Hodgkin lymphoma** Rapid onset of GVHD has been reported with nivolumab use before and after allogeneic HCT (see section 4.4). In 62 evaluated patients from two cHL studies who underwent allogeneic HCT after discontinuing nivolumab monotherapy, Grade 3 or 4 acute GVHD was reported in 17/62 patients (27.4%). Hypocytute GVHD, defined as acute GVHD occurring within 14 days after stem cell infusion, was reported in four patients (6%). A steroid-requiring febrile syndrome, without an identified infectious cause, was reported in six patients (12%) within the first 6 weeks post-transplantation. Steroids were used in four patients and three patients responded to steroids. Hepatic veno-occlusive disease occurred in two patients, one of whom died of GVHD and multi-organ failure. Nineteen of 62 patients (30.6%) died from complications of allogeneic HCT after nivolumab. The 62 patients had a median follow-up from subsequent allogeneic HCT of 38.5 months (range: 0-68 months). **Elevated liver enzymes when nivolumab is combined with cabozantinib in RCC** In a clinical study of previously untreated patients with RCC receiving nivolumab in combination with cabozantinib, a higher incidence of Grades 3 and 4 ALT increased (10.1%) and AST increased (8.2%) were observed relative to nivolumab monotherapy in patients with advanced RCC. In patients with Grade ≥2 increased ALT or AST (n=85): median time to onset was 10.1 weeks (range: 2.0 to 106.6 weeks), 26% received corticosteroids for median duration of 1.4 weeks (range: 0.9 to 75.3 weeks), and resolution to Grades 0-1 occurred in 91% with median time to resolution of 2.3 weeks (range: 0.4 to 108.1+ weeks). Among the 45 patients with Grade ≥2 increased ALT or AST who were rechallenged with either nivolumab (n=10) or cabozantinib (n=10) administered as a single agent or with both (n=25), recurrence of Grade ≥2 increased ALT or AST was observed in 3 patients receiving OPDIVO, 4 patients receiving cabozantinib, and 8 patients receiving both OPDIVO and cabozantinib. **Laboratory abnormalities** In patients treated with nivolumab monotherapy, the proportion of patients who experienced a shift from baseline to a Grade 3 or 4 laboratory abnormality was as follows: 4.1% for anaemia (all Grade 3), 0.8% for thrombocytopenia, 0.8% for leucopenia, 10.3% for lymphopenia, 1.0% for neutropenia, 1.9% for increased alkaline phosphatase, 2.6% for increased AST, 2.3% for increased ALT, 1.0% for increased total bilirubin, 0.6% for increased creatinine, 2.7% for hyperglycaemia, 1.2% for hypoglycaemia, 3.5% for increased amylase, 6.7% for increased lipase, 5.3% for hypocalcaemia, 1.4% for hypercalcaemia, 1.5% for hypocalcaemia, 1.3% for hypercalcaemia, 0.6% for hypermagnesaemia, 0.4% for hypomagnesaemia, 0.7% for hypocalcaemia, 0.9% for hyponatremia, and <0.1% for hyponatraemia. In patients treated with nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma, the proportion of patients who experienced a worsening from baseline to a Grade 3 or 4 laboratory abnormality was as follows: 2.8% for anaemia (all Grade 3), 1.2% for thrombocytopenia, 0.5% for leucopenia, 6.7% for lymphopenia, 0.7% for neutropenia, 4.3% for increased alkaline phosphatase, 12.4% for increased AST, 15.3% for increased ALT, 1.2% for increased total bilirubin, 2.4% for increased creatinine, 5.3% for hyperglycaemia, 8.7% for increased amylase, 19.5% for increased lipase, 1.2% for hypocalcaemia, 0.2% each for hypernatremia and hypercalcaemia, 0.5% for hyperkalemia, 0.3% for hypomagnesaemia, 4.8% for hypocalcaemia, and 9.5% for hyponatraemia. In patients treated with nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI-H CRC, the proportion of patients who experienced a worsening from baseline to a Grade 3 or 4 laboratory abnormality was as follows: 4.3% for anaemia (all Grade 3), 0.8% for thrombocytopenia, 0.5% for leucopenia, 5.3% for lymphopenia, 1.1% for neutropenia, 2.8% for increased alkaline phosphatase, 6.7% for increased AST, 7.8% for increased ALT, 1.8% for increased total bilirubin, 2.3% for increased creatinine, 7.2% for hyperglycaemia, 2.2% for hypoglycaemia, 11.1% for increased amylase, 20.2% for increased lipase, 0.5% for hypocalcaemia, 1.2% for hypercalcaemia, 2.2% for hyperkalemia, 0.9% for hypomagnesaemia, 0.3% for hypomagnesaemia 2.2% for hypocalcaemia, and 9.2% for hyponatraemia. In patients treated with nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in MPN, the proportion of patients who experienced a worsening from baseline to a Grade 3 or 4 laboratory abnormality was as follows: 2.4% for anaemia, 1.0% each for thrombocytopenia and leucopenia, 8.4% for lymphopenia, 1.3% for neutropenia, 3.1% for increased alkaline phosphatase, 7.1% each for increased AST and increased ALT, 1.7% for increased total bilirubin, 0.3% for increased creatinine, 2.8% for hyperglycaemia, 5.4% for increased amylase, 12.8% for increased lipase, 0.7% for hypernatremia, 8.1% for hyponatraemia, 4.1% for hyperkalemia, 2.0% for hypocalcaemia, and 0.3% for hypocalcaemia. In patients treated with nivolumab 240 mg or 360 mg in combination with chemotherapy in gastric, GEJ or oesophageal adenocarcinoma, the proportion of patients who experienced a worsening from baseline to a Grade 3 or 4 laboratory abnormality was as follows: 13.9% for anaemia, 6.8% for thrombocytopenia, 11.8% leucopenia, 12.2% for lymphopenia, 29.3% neutropenia, 4.6% for increased AST, 3.4% for increased ALT, 3.0% for increased bilirubin, 1.0% for increased creatinine, 0.5% for hypernatremia, 6.3% for hyponatraemia, 1.4% for hyperkalemia, 6.5% for hypocalcaemia, 0.3% for hypercalcaemia, 1.6% for hypocalcaemia, 4.2% for hyperglycaemia, and 0.7% for hypoglycaemia. In patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 6 weeks and chemotherapy in NSCLC, the proportion of patients who experienced a worsening from baseline to a Grade 3 or 4 laboratory abnormality was as follows: 9.2% for anaemia, 4.3% for thrombocytopenia, 9.8% for leucopenia, 5.8% for lymphopenia, 14.7% for neutropenia, 1.2% for increased alkaline phosphatase, 3.5% for increased AST, 4.3% for increased ALT, 0% for increased total bilirubin, 1.2% for increased creatinine, 7.1% for hyperglycaemia, 0% for hypoglycaemia, 6.7% for increased amylase, 11.9% for increased lipase, 1.4% for hypercalcaemia, 1.2% for hypercalcaemia, 1.7% for hyperkalemia, 0.3% for hypomagnesaemia, 1.2% for hypomagnesaemia 3.5% for hypocalcaemia, and 10.7% for hyponatraemia. In patients treated with nivolumab 240 mg in combination with cabozantinib 40 mg in RCC, the proportion of patients who experienced a worsening from baseline to a Grade 3 or 4 laboratory abnormality was as follows: 3.5% for anaemia (all Grade 3), 0.3% for thrombocytopenia, 0.3% for leucopenia, 7.5% for lymphopenia, 3.5% for neutropenia, 3.2% for increased alkaline phosphatase, 8.2% for increased AST, 10.1% for increased ALT, 1.3% for increased total bilirubin, 1.3% for increased creatinine, 11.9% for increased amylase, 15.6% for increased lipase, 3.5% for hyperglycaemia, 0.8% for hypoglycaemia, 2.2% for hypercalcaemia, 0.3% for hypercalcaemia, 5.4% for hyperkalemia, 4.2% for hypomagnesaemia, 1.9% for hypomagnesaemia 3.2% for hypocalcaemia, 12.3% for hyponatraemia, and 21.2% for hypophosphatemia. **Immunogenicity** Of the 3224 patients who were treated with nivolumab monotherapy 3 mg/kg or 240 mg every 2 weeks and evaluable for the presence of anti-product antibodies, 286 patients (8.9%) tested positive for treatment emergent anti-product antibodies with sixteen patients (0.5%) testing positive for neutralising antibodies. Co-administration with chemotherapy did not affect nivolumab immunogenicity. Of the patients who were treated with nivolumab 240 mg every 2 weeks or 360 mg every 3 weeks in combination with chemotherapy and evaluable for the presence of anti-product-antibodies, 8.8% tested positive for treatment emergent anti-product-antibodies with 0.3% tested positive for neutralising antibodies. Of the patients who were treated with nivolumab in combination with ipilimumab and evaluable for the presence of anti-nivolumab antibodies, the incidence of anti-nivolumab antibodies was 26.0% with nivolumab 3 mg/kg and ipilimumab 1 mg/kg every 3 weeks, 25.7% with nivolumab 3 mg/kg every 2 weeks and ipilimumab 1 mg/kg every 6 weeks, and 37.8% with nivolumab 1 mg/kg and ipilimumab 3 mg/kg every 3 weeks. The incidence of neutralising antibodies against nivolumab was 0.8% with nivolumab 3 mg/kg and ipilimumab 1 mg/kg every 3 weeks, 0.7% with nivolumab 3 mg/kg every 2 weeks and ipilimumab 1 mg/kg every 6 weeks, and 4.6% with nivolumab 1 mg/kg and ipilimumab 3 mg/kg every 3 weeks. Of patients evaluable for the presence of anti-ipilimumab antibodies, the incidence of anti-ipilimumab antibodies ranged from 6.3 to 13.7% and neutralising antibodies against ipilimumab ranged from 0 to 0.4%. Of the patients who were treated with nivolumab in combination with ipilimumab and chemotherapy and evaluable for the presence of anti-nivolumab antibodies or neutralising antibodies against nivolumab, the incidence of anti-nivolumab antibodies was 33.8% and the incidence of neutralising antibodies was 2.6%. Of the patients who were treated with nivolumab in combination with ipilimumab and chemotherapy and evaluable for the presence of anti-ipilimumab antibodies or neutralising antibodies against ipilimumab, the incidence of anti-ipilimumab antibodies was 7.5%, and the neutralising antibodies was 1.6%. Although the clearance of nivolumab was increased by 20% when anti-nivolumab-antibodies were present, there was no evidence of loss of efficacy or altered toxicity profile in the presence of nivolumab antibodies based on the pharmacokinetic and exposure-response analyses for both monotherapy and combination. Paediatric population Only limited safety data of nivolumab as monotherapy or in combination with ipilimumab in children below 18 years of age are available (see section 5.1). No new safety signals were observed in clinical study CA209908 of 151 paediatric patients with high-grade primary central nervous system (CNS) malignancies, relative to data available in adult studies across indications. **Elderly** No overall differences in safety were reported between elderly (≥ 65 years) and younger patients (< 65 years). Data from SCCNH, adjuvant melanoma, and adjuvant OC or GEC patients 75 years of age or older are too limited to draw conclusions on this population (see section 5.1). Data from dMMR or MSI-H CRC patients 75 years of age or older are limited (see section 5.1). Data from cHL patients 65 years of age or older are too limited to draw conclusions on this population (see section 5.1). In MPN patients, there was a higher rate of serious adverse reactions and discontinuation rate due to adverse reactions in patients 75 years of age or older (68% and 35%, respectively) relative to all patients who received nivolumab in combination with ipilimumab (54% and 28%, respectively). For patients treated with nivolumab in combination with cabozantinib, data from RCC patients 75 years of age or older are too limited to draw conclusions on this population (see section 5.1). **Hepatic or renal impairment** In the non-squamous NSCLC study (CA209057), the safety profile in patients with baseline renal or hepatic impairment was comparable to that in the overall population. These results should be interpreted with caution due to the small sample size within the subgroups. **Reporting of suspected adverse reactions** Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in listed in Appendix V.7. **MARKETING AUTHORISATION HOLDER** Bristol-Myers Squibb Pharma EEIG Plaza 254 Blanchardstown Corporate Park 2 Dublin 15, D15 1867 Ireland **8. MARKETING AUTHORISATION NUMBER(S)** EU/1/15/1014/001 EU/1/15/1014/002 EU/1/15/1014/003 EU/1/15/1014/004 **9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION** Date of first authorisation: 19 June 2015 Date of latest renewal: 23 April 2020 **10. DRUG DISPENSING CLASSIFICATION** Medicinal product subject to restricted medical prescription **11. DATE OF REVISION OF THE TEXT** 07 December 2021 Detailed information on this medicinal product is available on the website of the European Medicines Agency <http://www.ema.europa.eu>