Posology update









SELECT YOUR INDICATION OF INTEREST



MESOTHELIOMA











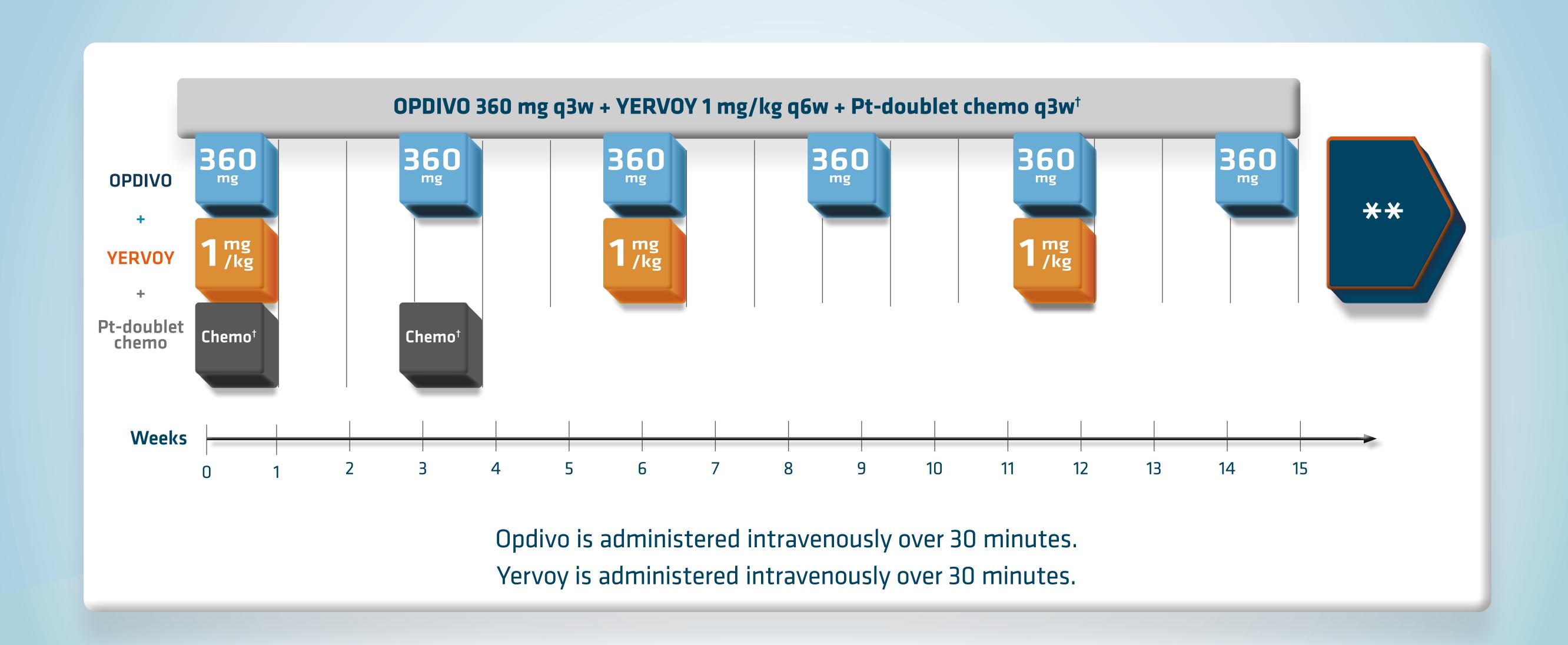








OPDIVO® + YERVOY®: NSCLC in 1st line*



^{*} OPDIVO in combination with YERVOY and 2 cycles of platinum-based chemotherapy is indicated for the first-line treatment of metastatic non-small cell lung cancer (NSCLC) in adults whose tumours have no sensitising EGFR mutation or ALK translocation.

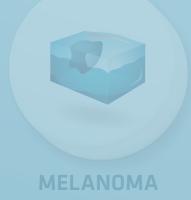
[†] In the 9LA study: Histology-based chemo; SQ patients: carboplatin AUC 6 + paclitaxel 200 mg/m2 at week 0 and week 3; NSQ patients: carboplatin AUC 5 or 6 + pemetrexed 500 mg/m2 at week 0 and week 3; or cisplatin 75 mg/m2 + pemetrexed 500 mg/m2 at week 0 and week 3.







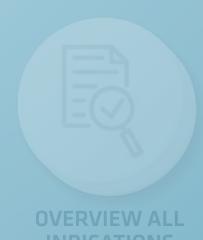


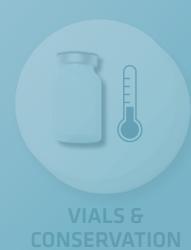








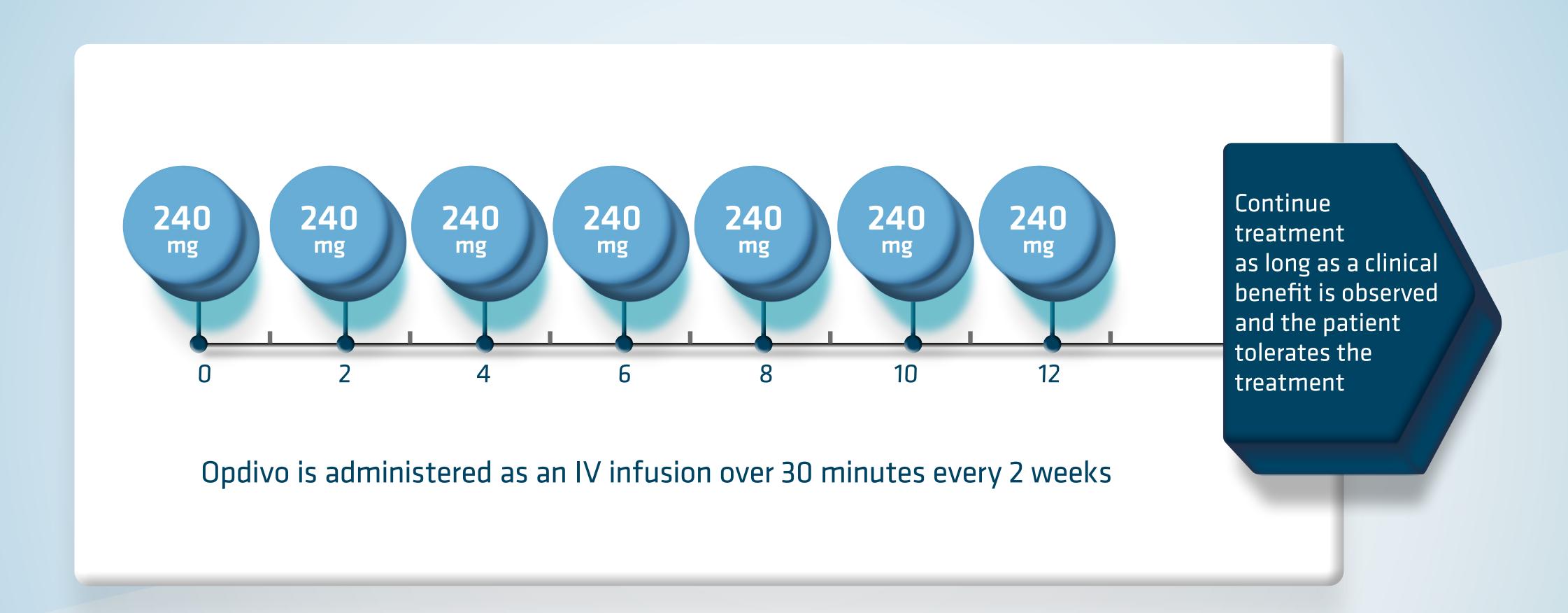






^{**} Treatment is recommended until disease progression, unacceptable toxicity or up to 24 months without disease progression.

OPDIVO® monotherapy: NSCLC in 2nd line*



* OPDIVO as monotherapy is indicated for the treatment of locally advanced or metastatic non-small cell lung cancer (NSCLC) after prior chemotherapy in adults.



















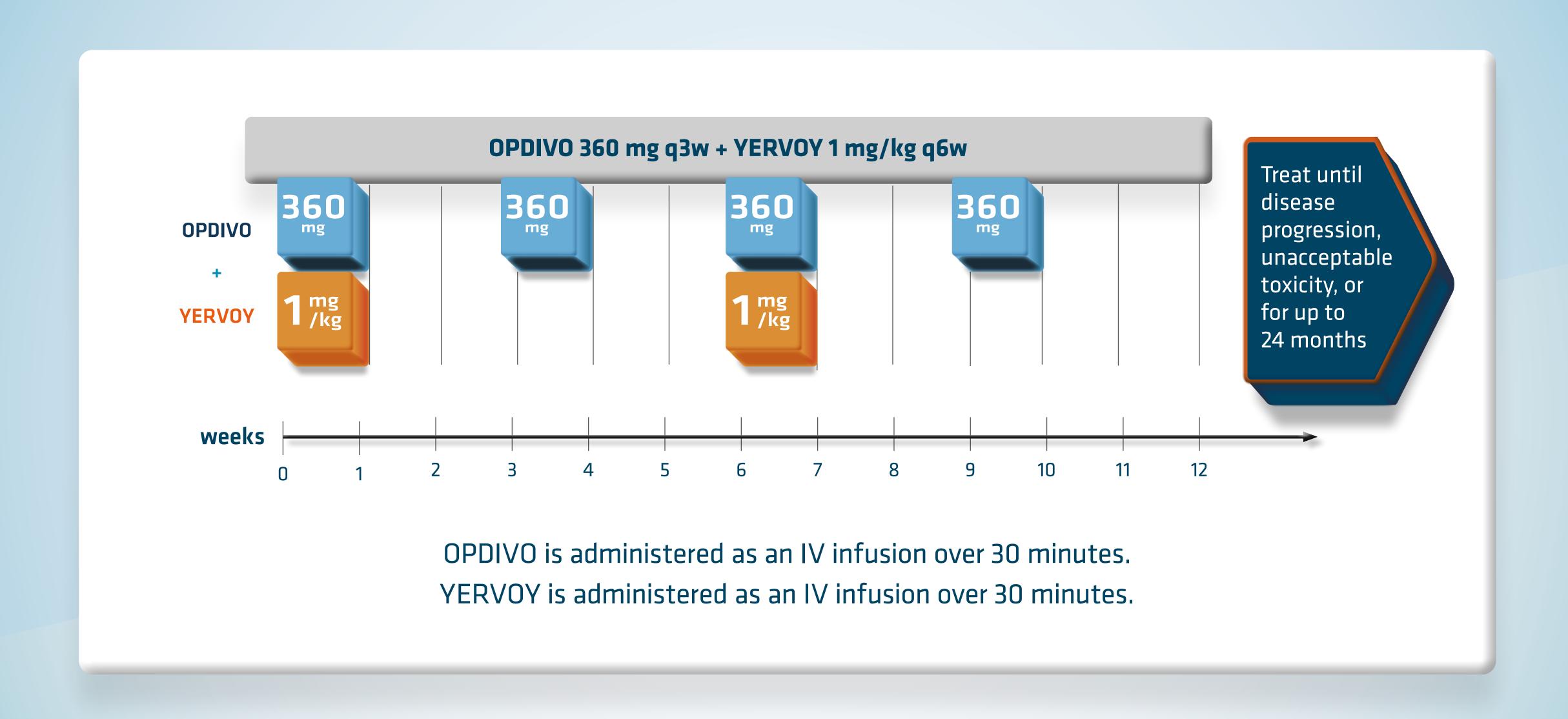








OPDIVO® + YERVOY®: uMPM in 1st line*



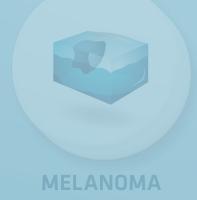
*OPDIVO in combination with YERVOY is indicated for the first-line treatment of adult patients with unresectable malignant pleural mesothelioma (uMPM).







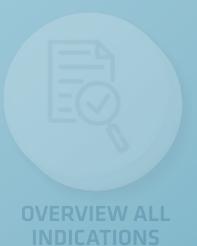








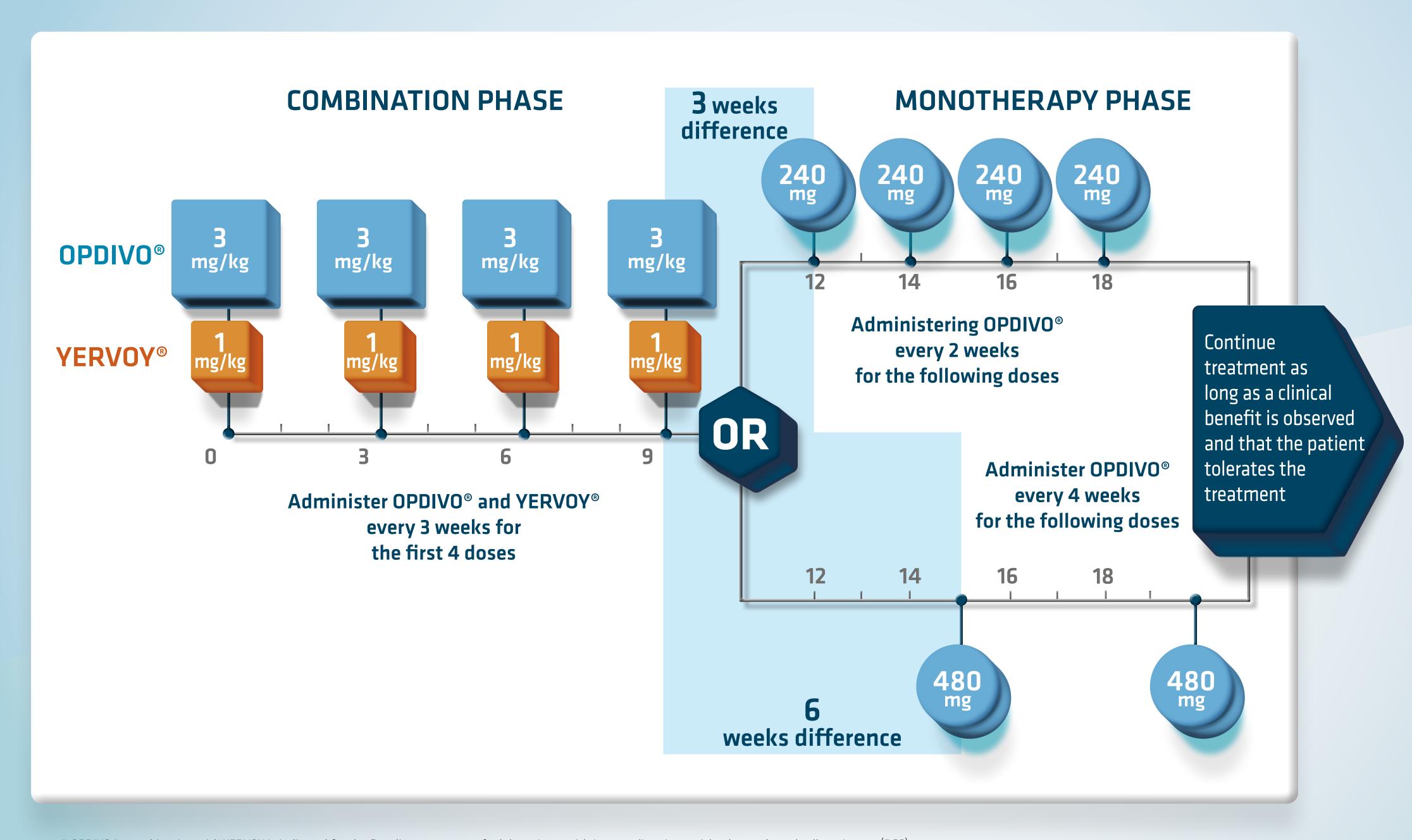








OPDIVO® + YERVOY®: RCC in 1st line*



It is
recommended
that Opdivo® be
continued in
clinically stable
patients with
initial signs of
disease
progression
until disease
progression is
confirmed.

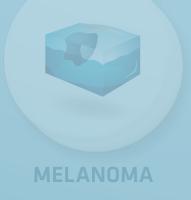
* OPDIVO in combination with YERVOY is indicated for the first-line treatment of adult patients with intermediate/poor-risk advanced renal cell carcinoma (RCC).







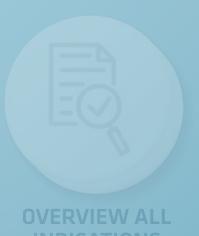
















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OPDIVO® + CABOZANTINIB: RCC in 1st line*



OPDIVO® should be continued until progression of disease unacceptable toxicity or up to 24 months in patients without disease progression.

Cabozantinib should be continued until progression of disease or unacceptable toxicity.

See the SmPC of cabozantinib

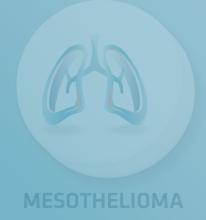
*OPDIVO in combination with cabozantinib is indicated for the first-line treatment of adult patients with advanced renal cell carcinoma (RCC).





















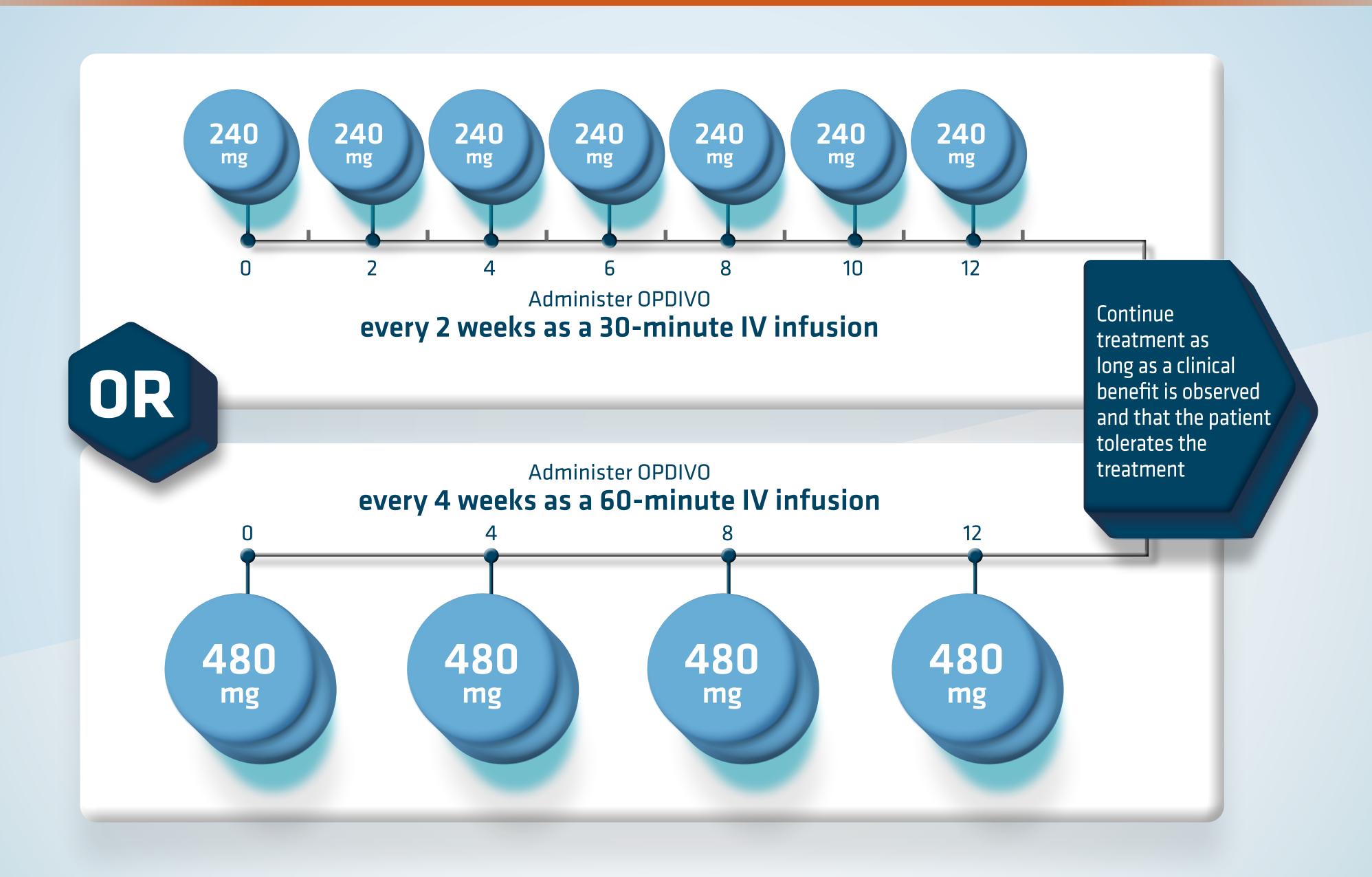








OPDIVO® monotherapy: in previously treated or after prior treatment for advanced RCC*



*OPDIVO as monotherapy is indicated for the treatment of advanced renal cell carcinoma (RCC) after prior therapy in adults.





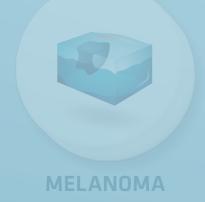








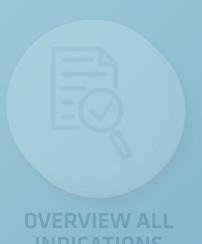








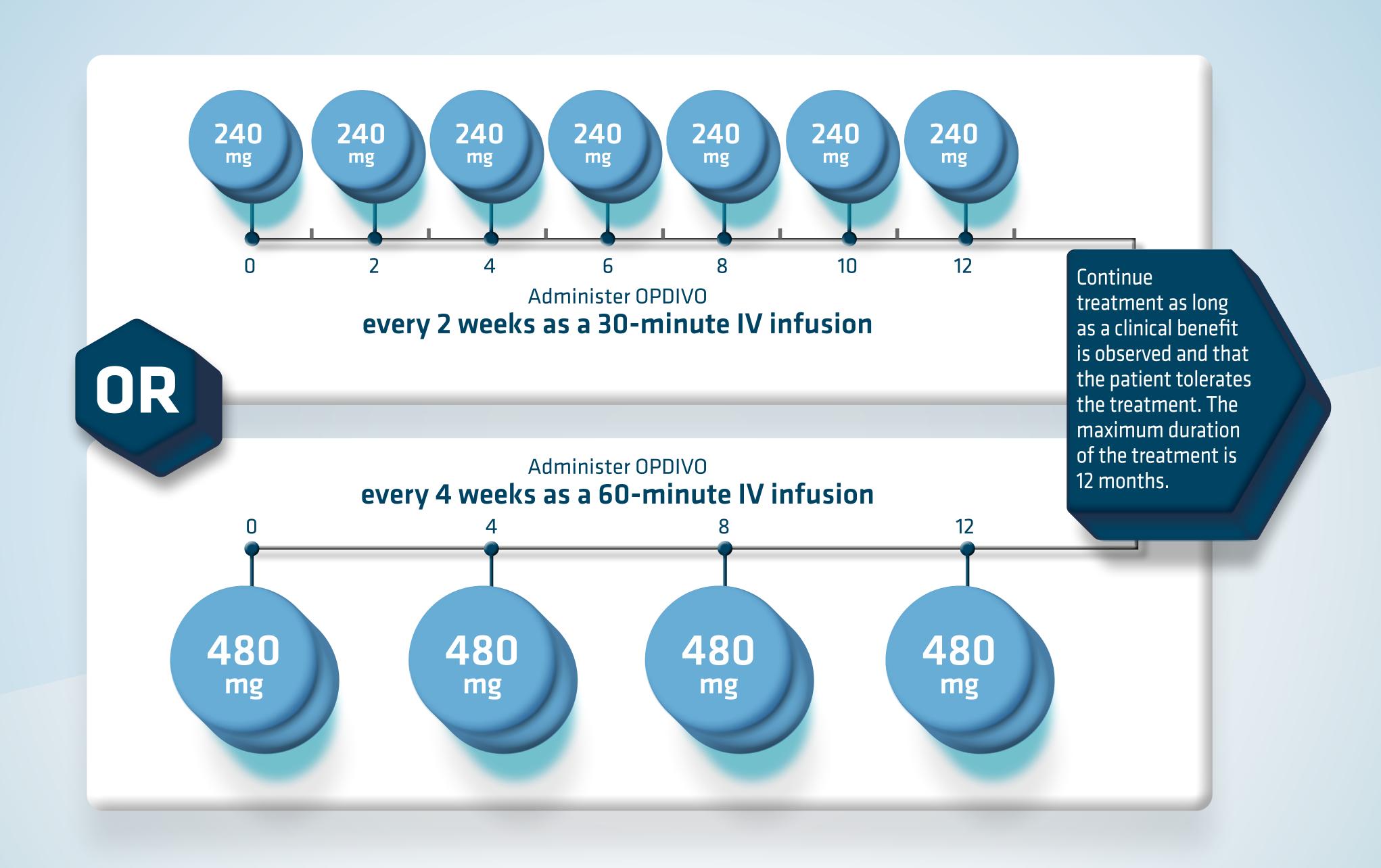








OPDIVO® monotherapy: adjuvant urothelial carcinoma*



OPDIVO as monotherapy is indicated for the adjuvant treatment of adults with muscle-invasive urothelial carcinoma (MIUC) with tumor cell PD-L1 expression ≥ 1%, who are at high risk of recurrence after undergoing radical resection of MIUC.







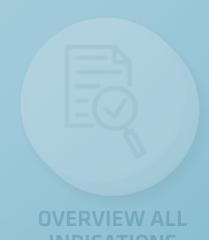








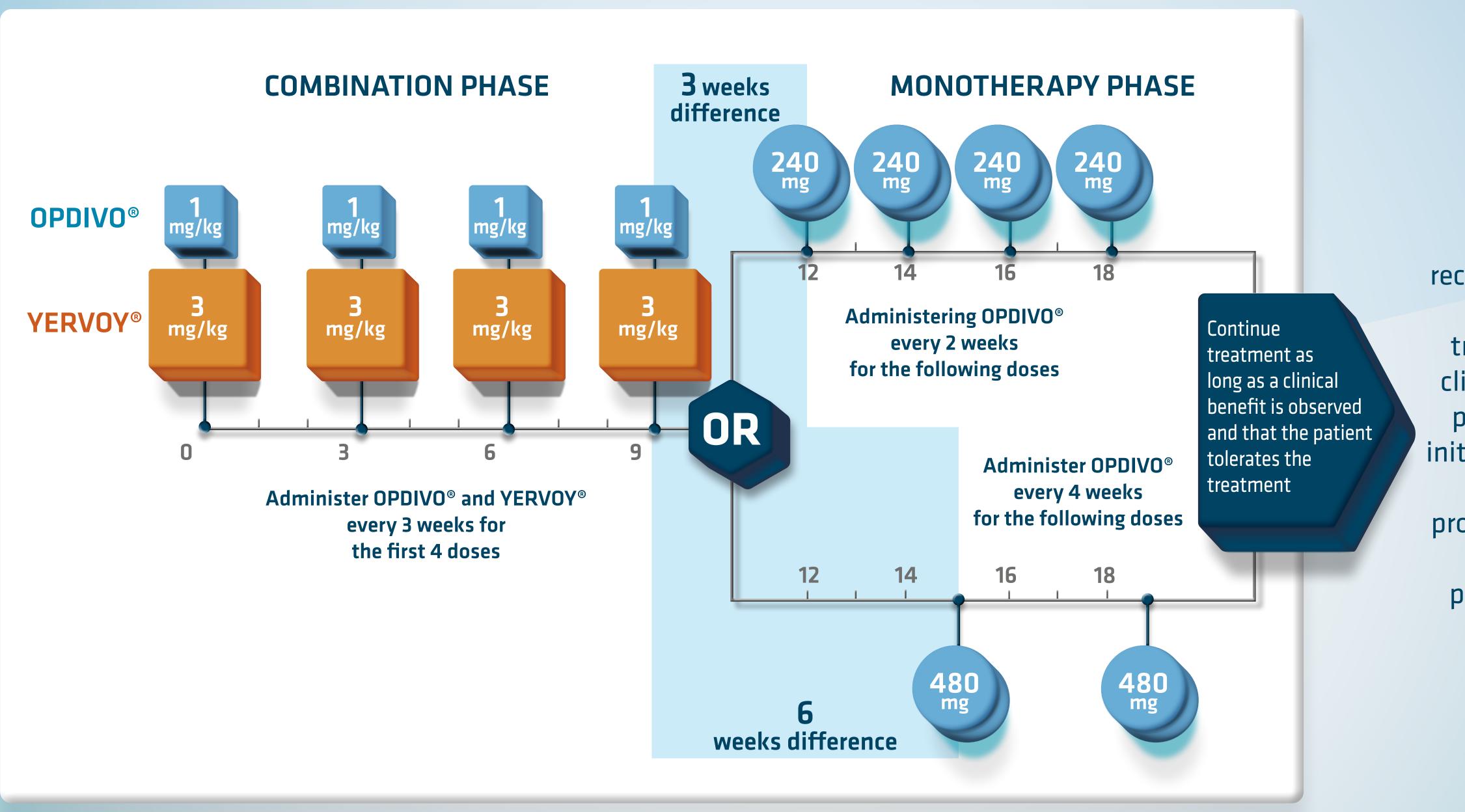








OPDIVO® + YERVOY®: advanced melanoma*



It is recommended to continue treatment for clinically stable patients with initial evidence of disease progression until disease progression is confirmed

*OPDIVO in combination with YERVOY is indicated for the treatment of advanced (unresectable or metastatic) melanoma in adults.

















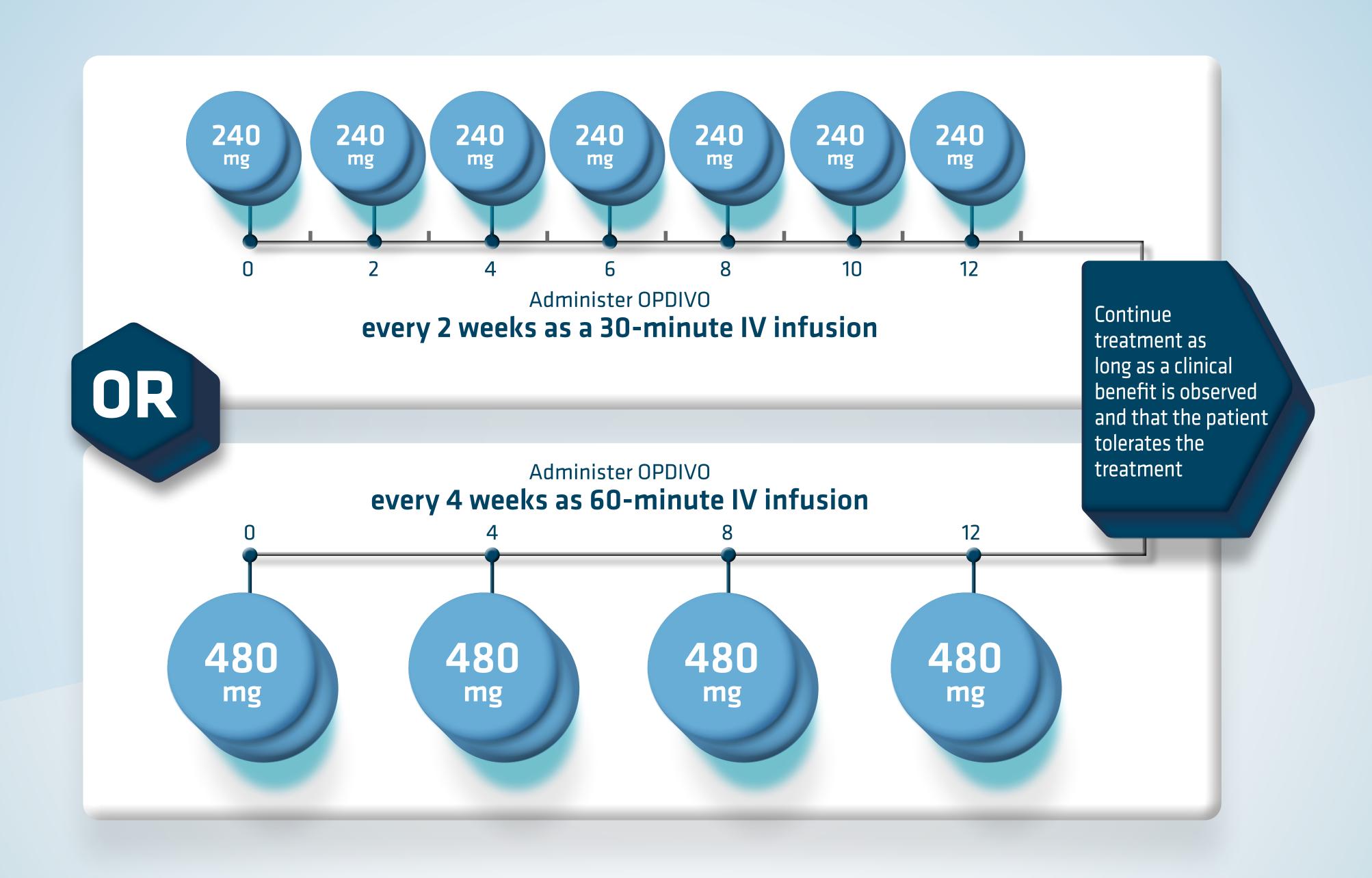






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OPDIVO® monotherapy: advanced melanoma*



*OPDIVO as monotherapy is indicated for the treatment of advanced (unresectable or metastatic) melanoma in adults.













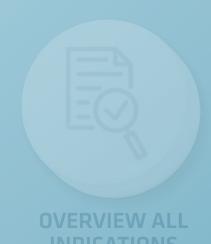








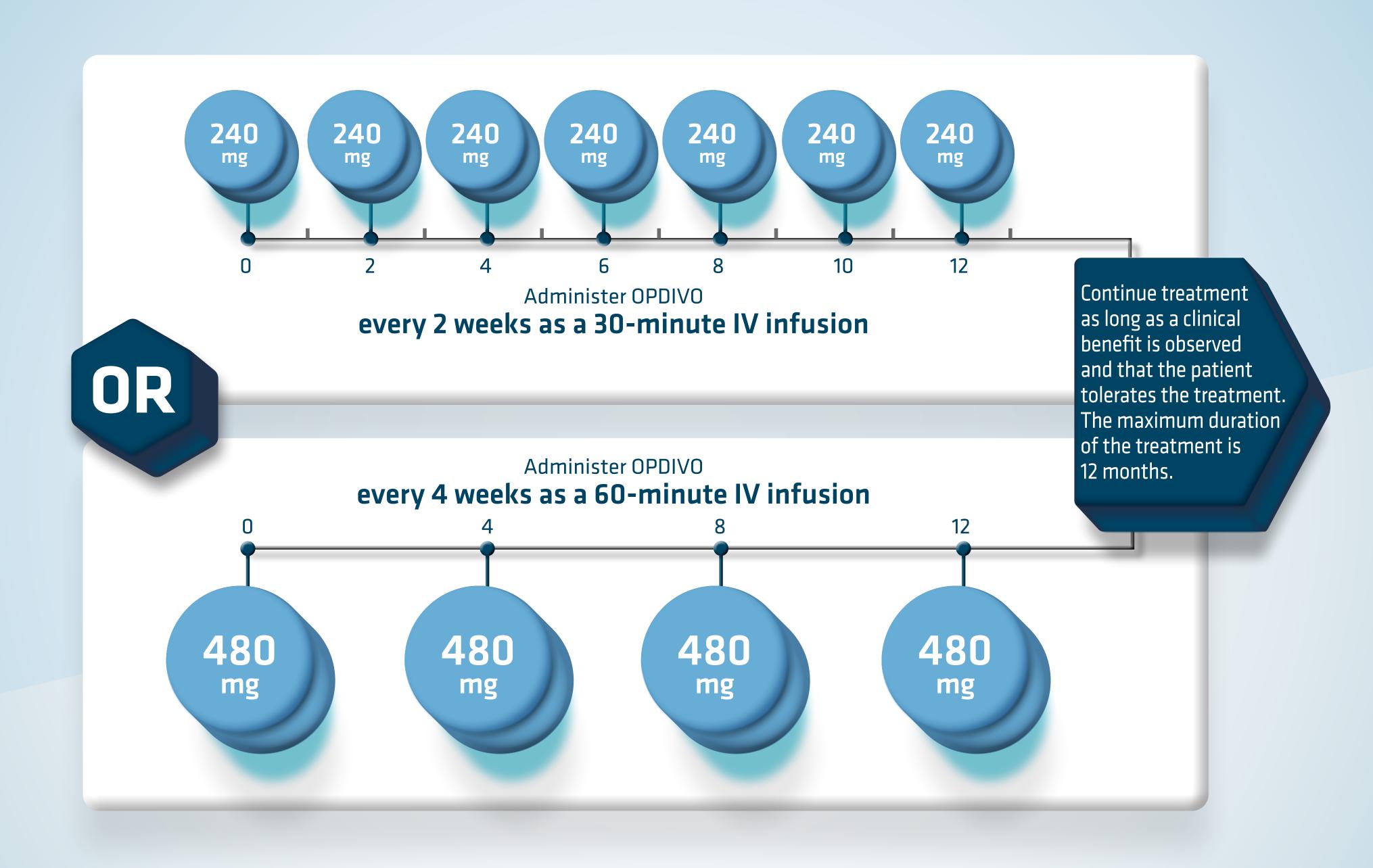








OPDIVO® monotherapy: adjuvant treatment melanoma*



* 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.





























OPDIVO® + chemotherapy: 1st line adenocarcinoma Upper GI*



* 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) ≥ 5 .







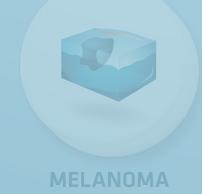








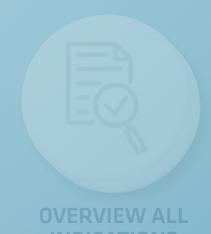








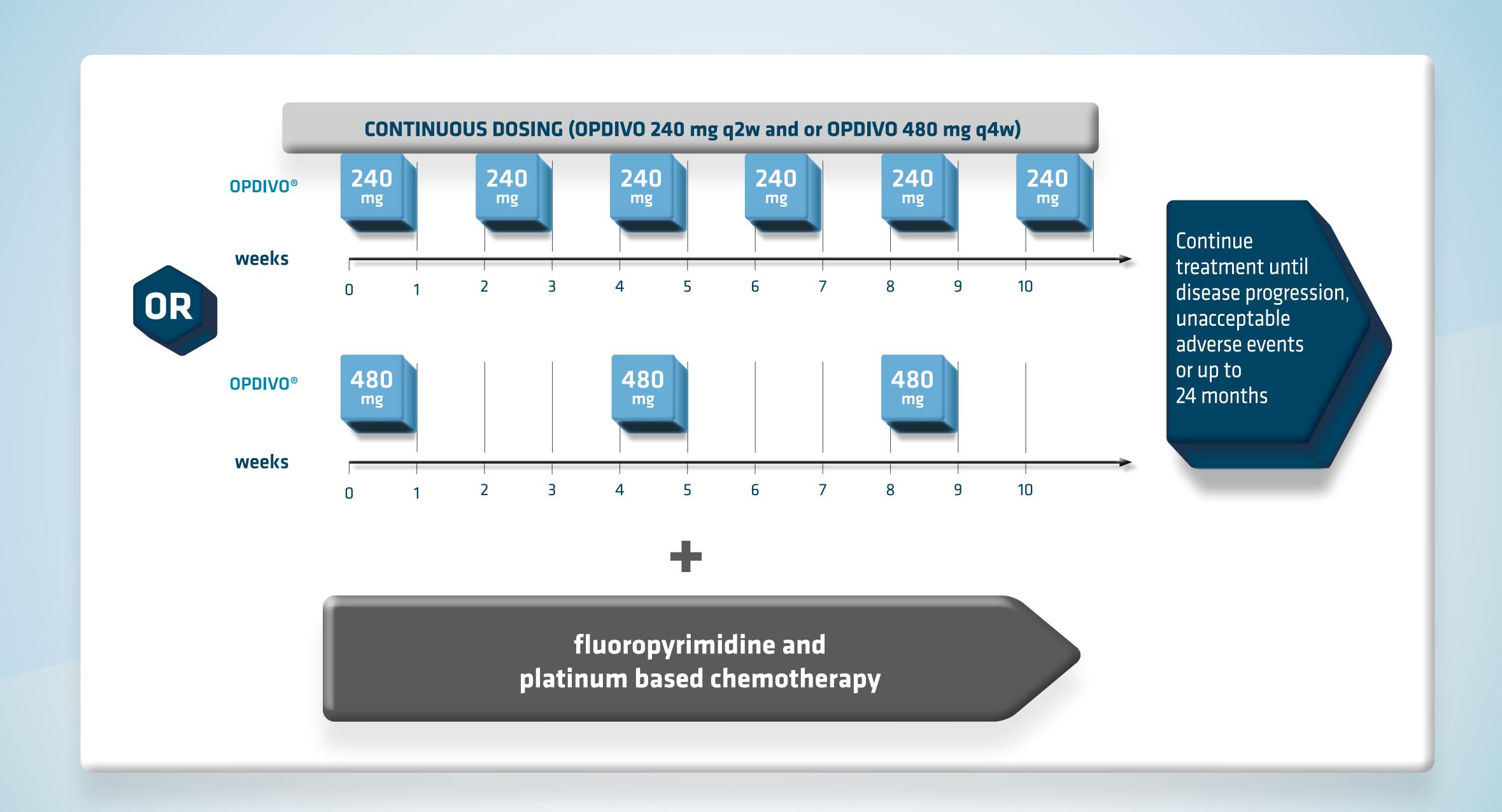








OPDIVO® + chemotherapy: 1st line ESCC*



^{*} OPDIVO in combination with fluoropyrimidine- and platinum-based combination chemotherapy is indicated for the first-line treatment of adult patients with unresectable advanced, recurrent or metastatic oesophageal squamous cell carcinoma with tumour cell PD-L1 expression ≥ 1%.







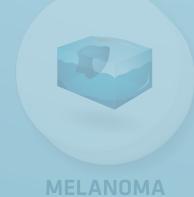








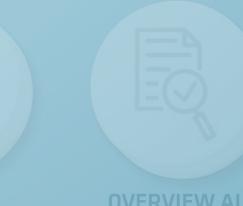








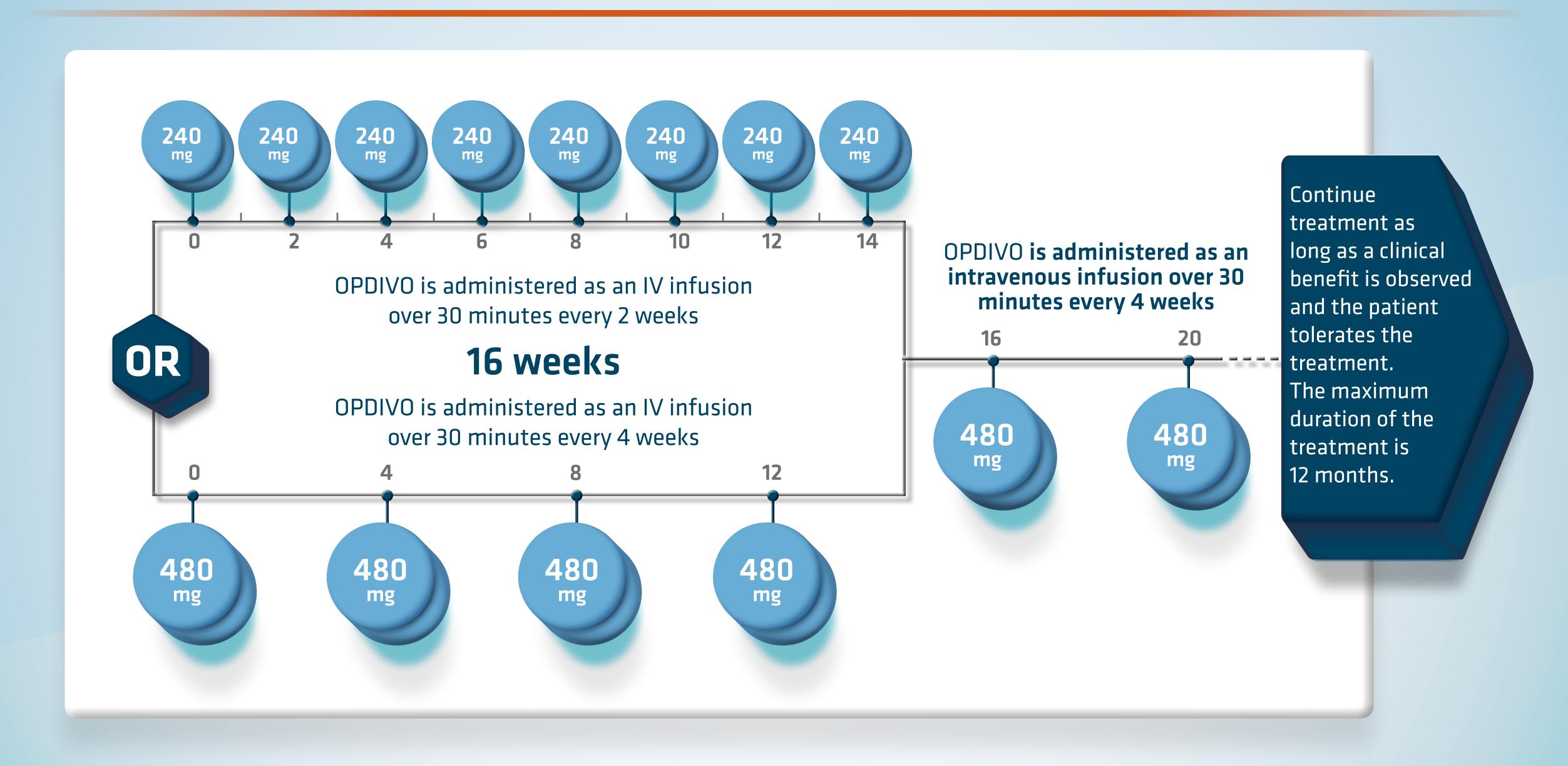








OPDIVO® monotherapy: adjuvant esophageal or gastro-esophageal junction cancer*



*OPDIVO as monotherapy is indicated for the adjuvant treatment of adult patients with oesophageal junction cancer who have residual pathologic disease following prior neoadjuvant chemoradiotherapy.







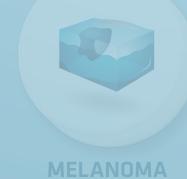








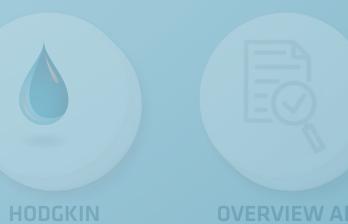








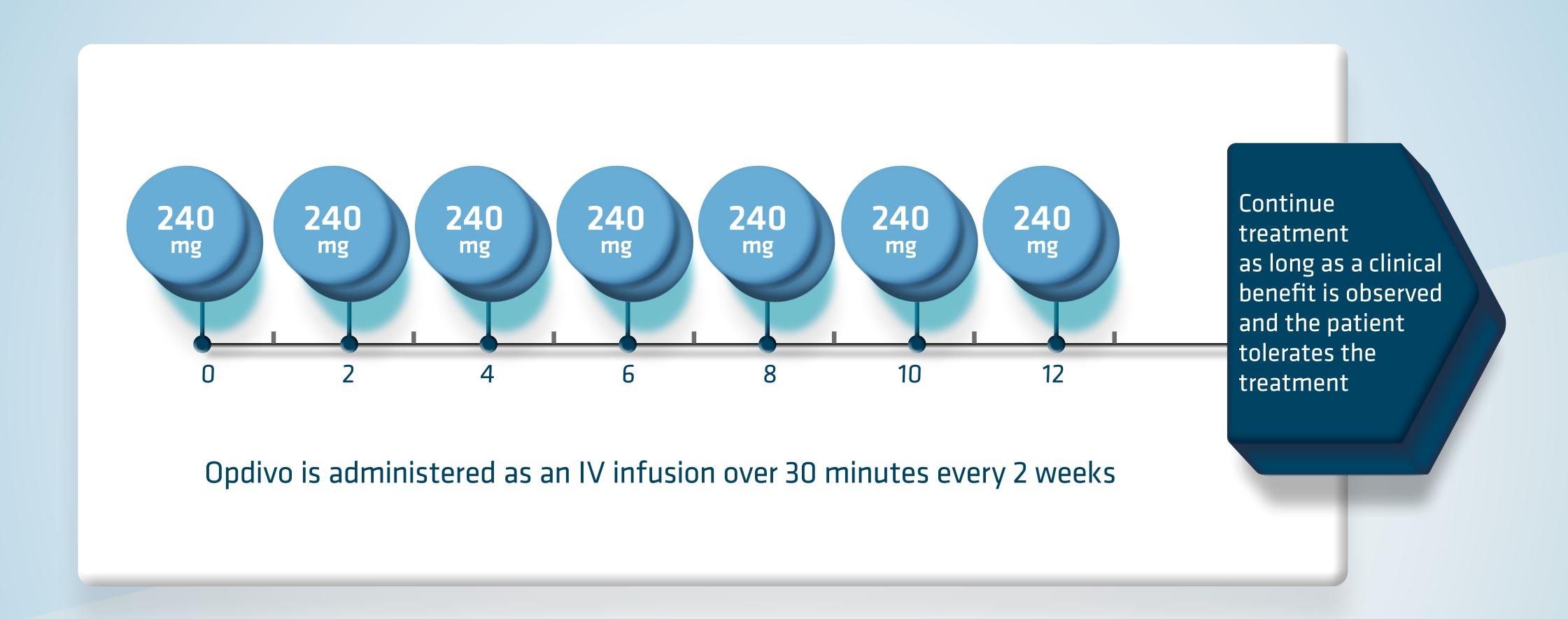








OPDIVO® monotherapy: 2e line Esophageal squamous cell carcinoma*



*OPDIVO as monotherapy is indicated for the treatment of adult patients with unresectable advanced, recurrent or metastatic oesophageal squamous cell carcinoma after prior fluoropyrimidine- and platinum-based combination chemotherapy.







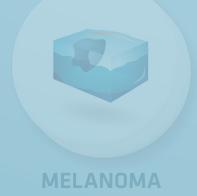








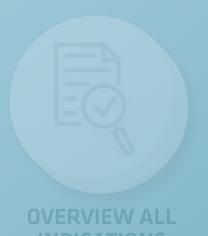








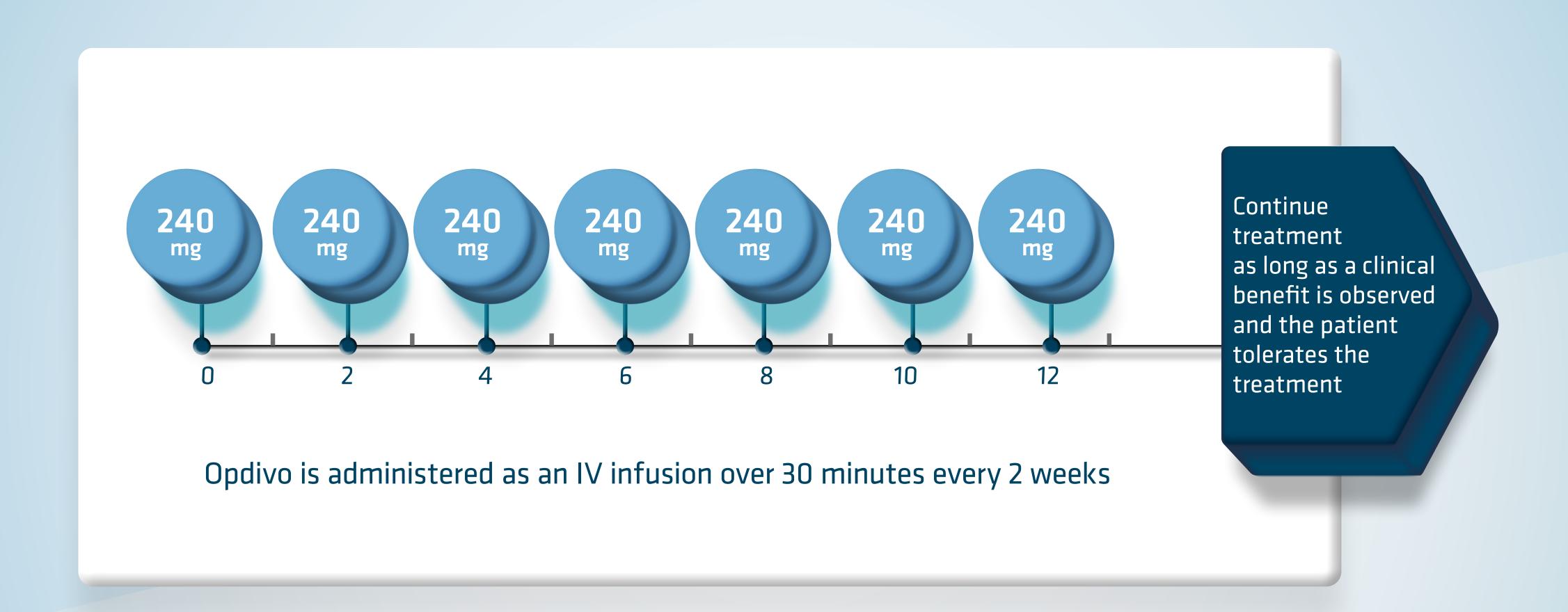








OPDIVO® monotherapy: after platina containing chemo in SCCHN*



* OPDIVO as monotherapy is indicated for the treatment of recurrent or metastatic squamous cell cancer of the head and neck (SCCHN) in adults progressing on or after platinum-based therapy.















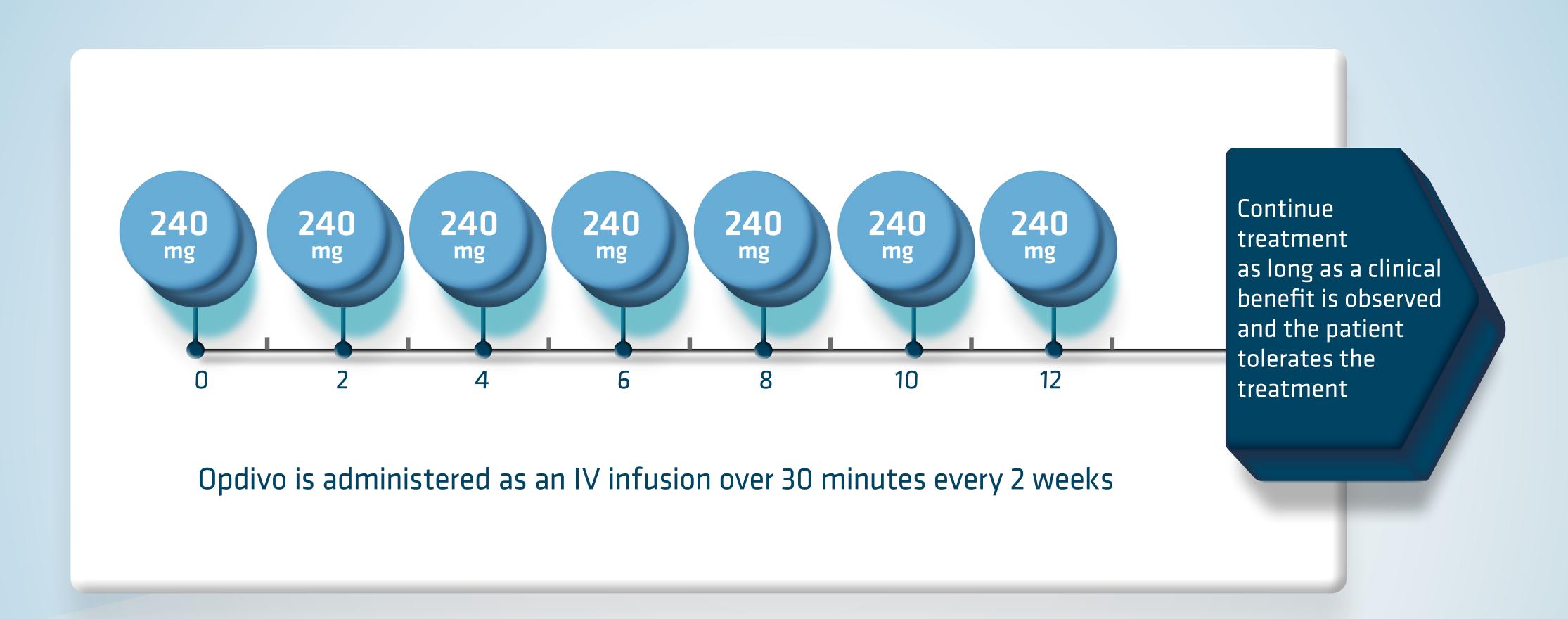








OPDIVO® monotherapy: cHL in 4e line*



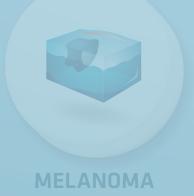
* OPDIVO as monotherapy is indicated for the treatment of adult patients with relapsed or refractory classical Hodgkin lymphoma (cHL) after autologous stem cell transplant (ASCT) and treatment with brentuximab vedotin.







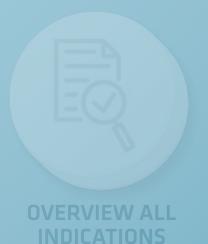
















Overview reimbursed indications: OPDIVO® monotherapy

MONOTHERAPY		OPDIVO. (nivolumab)	Fixed dose 240 mg every 2 weeks	Fixed dose 480 mg every 4 weeks
Melanoma		Adjuvant	✓ 30 min infusion	✓ 60 min infusion
Melanoma		from 1 st line	✓ 30 min infusion	✓ 60 min infusion
Renal Cell Carcinoma (RCC)		from 2 ^d line	✓ 30 min infusion	✓ 60 min infusion
Non Small Cell Lung Cancer (NSCLC)		from 2 ^d line	✓ 30 min infusion	
Classical Hodgkin Lymphoma		from 4 ^d line	✓ 30 min infusion	
Squamous Cell Cancer of the Head and Neck		After failure of prior platinum- containing therapy	✓ 30 min infusion	
Urothelial Carcinoma (UC)		Adjuvant	✓ 30 min infusion	✓ 60 min infusion
Esophageal squamous cell carcinoma	3	After Fluoropyrimidine and platinum containing therapy	✓ 30 min infusion	
Esophageal or gastro-esophageal junction cancer		Adjuvant	✓ 30 min infusion Weeks 0 to 16	✓ 30 min infusion Weeks 0 to 16
				✓ 30 min infusion Weeks 16 to 52

Treatment with OPDIVO, in monotherapy, should be continued as long as clinical improvement is observed or until treatment by the patient. For adjuvant treatment, the maximum duration of treatment with OPDIVO is 12 months.





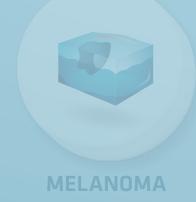
























Overview reimbursed indications: OPDIVO® and YERVOY®

COMBINATION		OPDIVO: + YERVOY COMBINATION PHASE (nivolumab) Weight-based dosis		OPDIVO MONOTHERAPY PHASE		
				Fixed dose 240 mg every 2 weeks	Fixed dose 480 mg every 4 weeks	
Melanoma		1L+	4 infusions every 3 weeks: • OPDIVO 1mg/kg 30 min infusion time • YERVOY 3mg/kg 30 min infusion time	✓ 30 min infusion (after 3 weeks)	✓ 60 min infusion (after 6 weeks)	
Renal Cell Carcinoma (RCC)		1L	 4 infusions every 3 weeks: • OPDIVO 3mg/kg 30 min infusion time • YERVOY 1mg/kg 30 min infusion time 	✓ 30 min infusion (after 3 weeks)	✓ 60 min infusion (after 6 weeks)	
COMBINATION		OPDIVO + YERVOY COMBINATION PHASE				
			Weeks 0 to 3 Weeks 6 to 104			
Non Small Cell Lung Cancer (NSCLC)*		1L	 OPDIVO 360 mg 30 min infusion time every 3 weeks YERVOY 1 mg/kg 30 min infusion time every 6 weeks 2 cycles of platinum-based chemotherapy administered every 3 weeks 	 OPDIVO 360 mg 30 min infusion time every 3 weeks YERVOY 1 mg/kg 30 min infusion time every 6 weeks 		
Mesothelioma (MPM)*		1L	• OPDIVO 360 mg 30 min infusion time every 3 weeks			

Treatment with OPDIVO, both in monotherapy and in combination with YERVOY, should be continued as long as clinical improvement is observed or until treatment is no longer tolerated by the patient.

* Treatment should be continued until disease progression, unacceptable toxicity or up to 24 months in patients without disease progression.





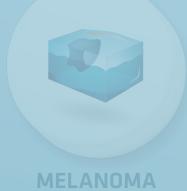










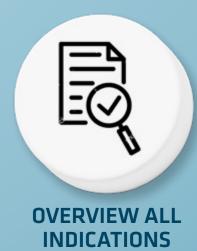








HODGKIN







Overview reimbursed indications: OPDIVO® in combination

COMBINATION		OPDIVO. + chemotherapy	Fixed dose 240 mg every 2 weeks	Fixed dose 360 mg every 3 weeks
Gastric, GEJ or esophageal adenocarcinoma*	1L	In combination with fluoropyrimidine and platinum containing chemotherapy	30 minutes infusion + fluoropyrimidine & platinum-based CT	30 minutes infusion + fluoropyrimidine & platinum-based CT
			Fixed dose 240 mg every 2 weeks	Fixed dose 480 mg every 4 weeks
Esophageal squamous cell carcinoma (ESCC)*	1L	In combination with fluoropyrimidine and platinum containing chemotherapy	30 minutes infusion + fluoropyrimidine & platinum-based CT	30 minutes infusion + fluoropyrimidine & platinum-based CT
COMBINATION OPDIVO + CABOZANTINIB (nivolumab) + CABOZANTINIB		Fixed dose 240 mg every 2 weeks	Fixed dose 480 mg every 4 weeks	
Renal cell carcinoma**	1L	In combination with cabozantinib	30 minutes infusion + 40 mg cabozantinib every day	60 minutes infusion + 40 mg cabozantinib every day

^{**}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.





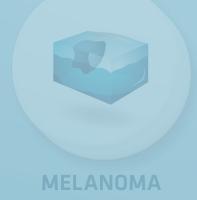








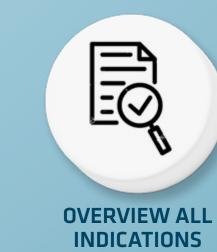
















^{*} Treatment should be continued until disease progression, unacceptable toxicity or up to 24 months in patients without disease progression.

OPDIVO®: vials



240 mg/24 mL single-dose vial



■ 100 mg/10 mL single-dose vial



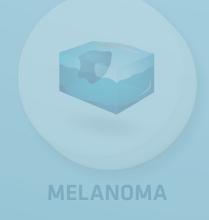
40 mg/4 mL single-dose vial







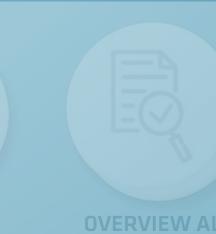
















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YERVOY®: vials



■ 50 mg/10 mL



■ 200 mg/40 mL







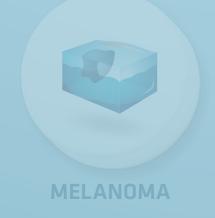
















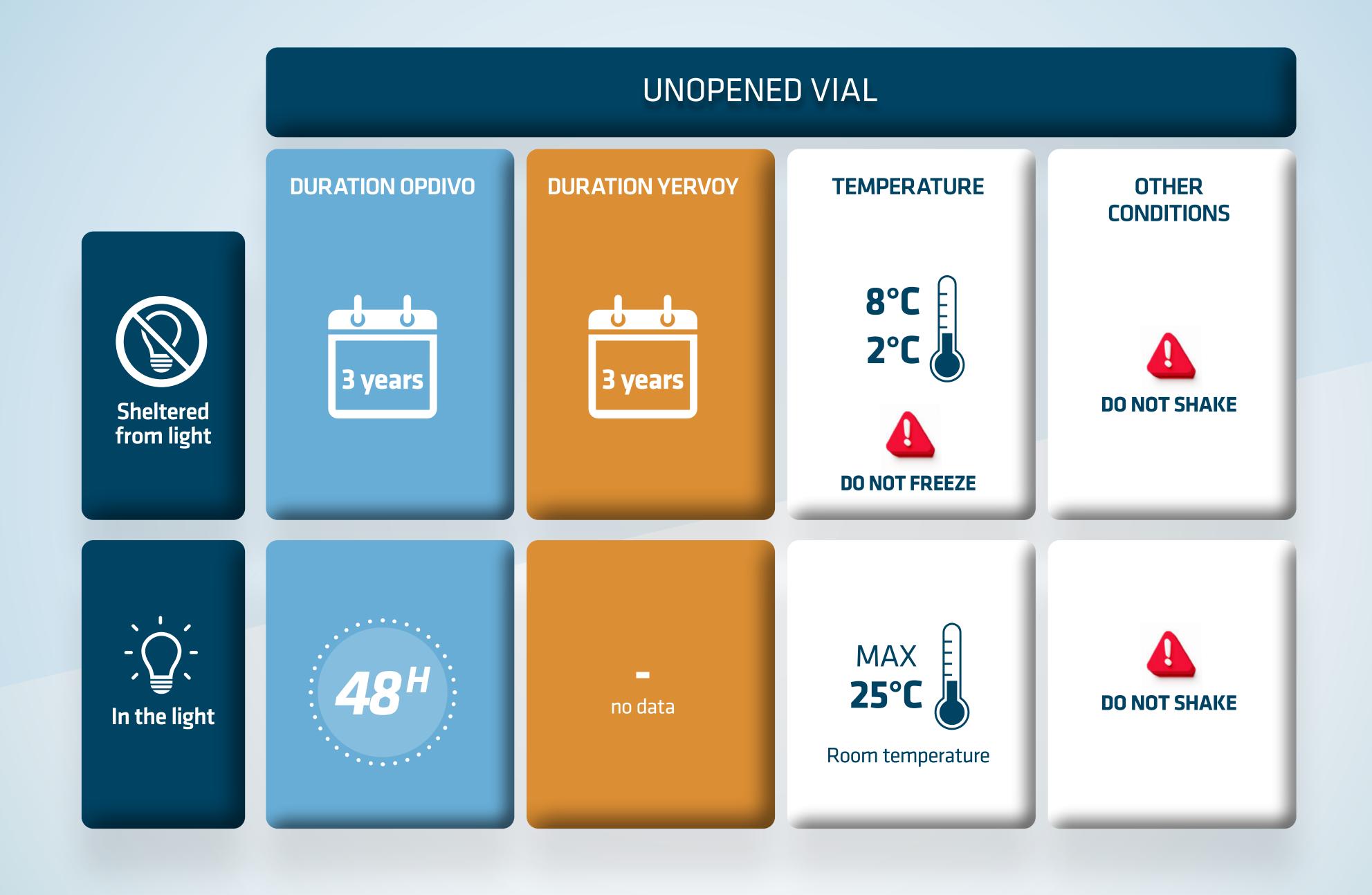








OPDIVO® + YERVOY®: Conservation

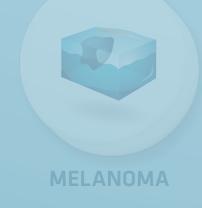








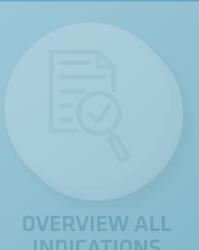










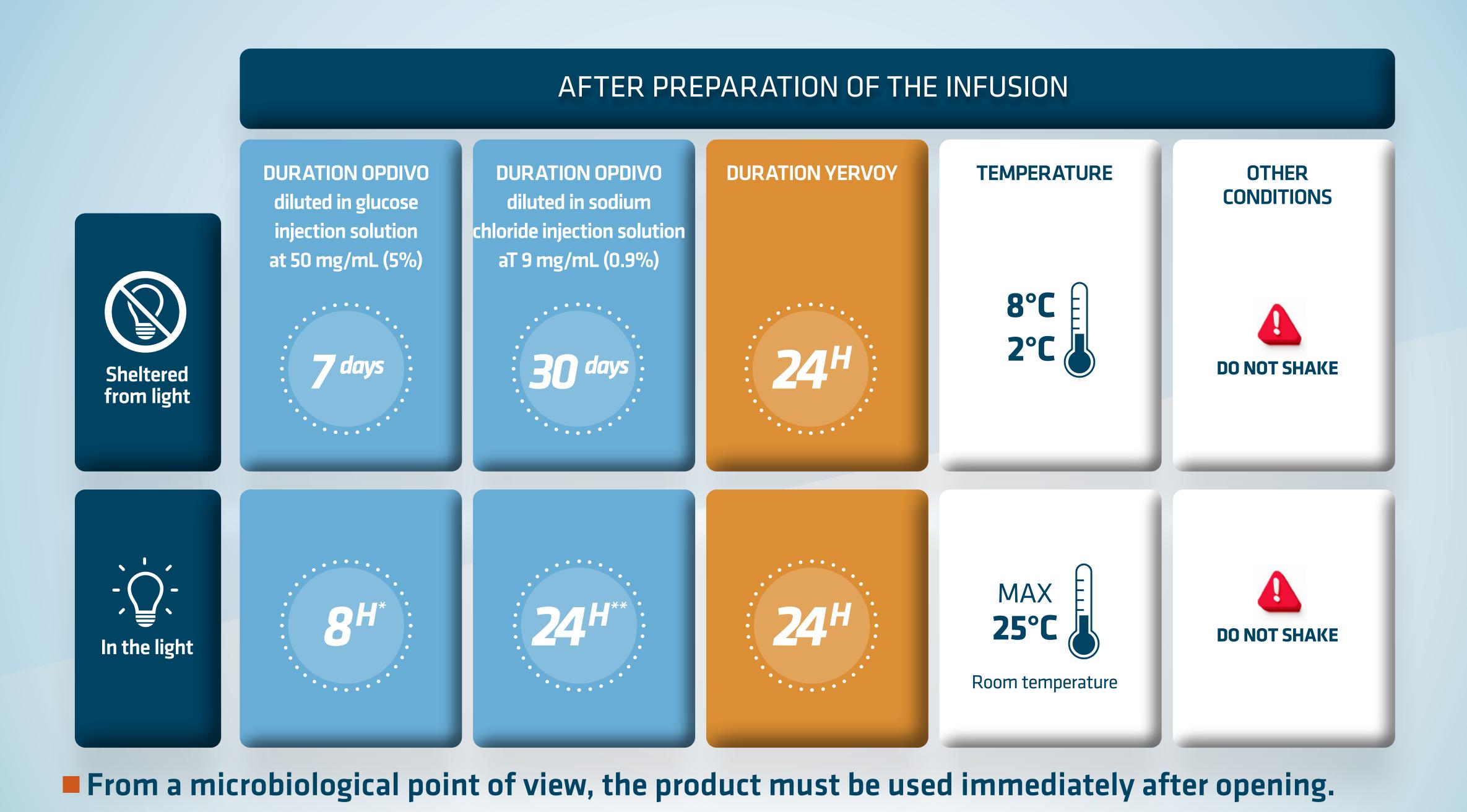






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OPDIVO® + YERVOY®: Conservation



*of total 7 days storage. **of total 30 days storage.

















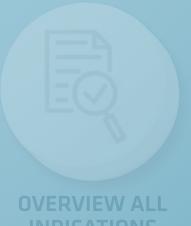


















Ex-factory (excl. VAT)

OPDIVO 40 mg €509,90 OPDIVO 100 mg €1.274,75 OPDIVO 240 mg €3.059,65

1. NAME OF THE MEDICINAL PRODUCT OPDIVO 10 mg/mL concentrate for solution for infusion. 2. QUALITATIVE AND QUANTITATIVE COMPOSITION Each mL of concentrate for solution for infusion 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. ab. One vial of 12 mL contains 120 mg of nivolumab. One vial of 24 mL contains 240 mg of nivolumab is produced in Chinese hamster ovary cells by recombinant DNA technology. Excipient with known effect Each mL of concentrate contains 0.1 mmol (or 2.5 mg) sodium. For the full list of excipients, see section 6.1. 3. PHARMA-**CEUTICAL FORM** Concentrate for solution for infusion (sterile concentrate). Clear to opalescent, colourless to pale yellow liquid that may contain few light particles. The solution has a pH of approximately 3.40 mOsm/kg. 4. CLINICAL PARTICULARS 4.1 Therapeutic indications Melanoma OPDI-VO 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 (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 lymph nodes or metastatic disease who have undergone complete resection (see section 5.1). Non-small cell lung cancer (NSCLC) OPDIVO in combination combination. tion 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 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 brentuximab vedotin. Squamous cell cancer of the head and neck (SCCHN) OPDIVO as monotherapy is indicated for the treatment with brentuximab vedotin. 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). <u>Urothelial carcinoma</u> 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. Adjuvant treatment of urothelial carcinoma OPDIVO as monotherapy is indicated for the adjuvant treatment of adults with muscle invasive urothelial carcinoma (MIUC) with tumour cell PD-L1 expression > 1%, who are at high risk of recurrence after undergoing radical resection of MIUC (see section 5.1). 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). Oesophageal squamous cell carcinatellite instability high metastatic colorectal cancer after prior fluoropyrimidine based combination chemotherapy (see section 5.1). Oesophageal squamous cell carcinatellite instability high metastatic colorectal cancer after prior fluoropyrimidine based combination chemotherapy (see section 5.1). Oesophageal squamous cell carcinatellite instability high metastatic colorectal cancer after prior fluoropyrimidine based combination chemotherapy (see section 5.1). Oesophageal squamous cell carcinatellite instability high metastatic colorectal cancer after prior fluoropyrimidine based combination chemotherapy (see section 5.1). Oesophageal squamous cell carcinatellite instability high metastatic colorectal cancer after prior fluoropyrimidine based combination chemotherapy (see section 5.1). Oesophageal squamous cell carcinatellite instability high metastatic colorectal cancer after prior fluoropyrimidine based combination chemotherapy (see section 5.1). noma (OSCC) OPDIVO in combination with ipilimumab is indicated for the first-line treatment of adult patients with unresectable advanced, recurrent or metastatic oesophageal squamous cell carcinoma with tumour cell PD-L1 expression $\geq 1\%$. OPDIVO in combination with fluoropyrimidine- and platinum-based combination chemotherapy is indicated for the first-line treatment of adult patients with unresectable advanced, recurrent or metastatic oesophageal squamous cell carcinoma with tumour cell PD-L1 expression $\geq 1\%$. OPDIVO as monotherapy is indicated for the treatment of adult patients with unresectable advanced, recurrent or metastatic oesophageal squamous cell carcinoma after prior fluoropyrimidine- and platinum-based combination chemotherapy. Adjuvant treatment of oesophageal junction cancer (OC or GEJC) OPDIVO as monotherapy is indicated for the adjuvant treatment of adult patients with oesophageal junction cancer who have residual pathologic disease following prior neoadjuvant chemoradiotherapy (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, gastri tro-oesophageal junction or oesophageal adenocarcinoma whose tumours express PD-L1 with a combined positive score (CPS) ≥ 5. 4.2 Posology and method of administration Treatment must be initiated and supervised by physicians experienced in the treatment of cancer. PD-L1 testing If 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 either nivolumab 240 mg every 2 weeks or 480 mg every 4 weeks (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, Muscle invasive urothelial carcinoma (MIUC) (adjuvant treatment) Recommended dose and infusion time: 240 mg every 2 weeks over 30 minutes or 480 mg every 4 weeks over 60 minutes; Oesophageal or gastro-oesophageal junction cancer (adjuvant treatment): 240 mg every 4 weeks over 30 minutes for the first 16 weeks, followed by 480 mg every 4 weeks over 30 minutes; Non-small cell lung cancer, Classical Hodgkin lymphoma, Squamous cell cancer of the head and neck, Urothelial carcinoma, Oesophageal 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, RCC, OC, GEJC or MIUC (adjuvant treatment) 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 480 mg dose. Conversely, if patients need to be switched from the 480 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 at 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 if using 480 mg every 4 weeks. Table 2: Recommended doses 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 Ipilimum**ab** Combination phase, every 3 weeks for 4 dosing cycles: 3 mg/kg over 30 minutes every 6 weeks. Treatment is continued for up to 24 months in patients without disease progression. Renal cell carcinoma and dMMR or MSI-H colorectal cancer. The recommended dose is 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 at 480 mg every 2 weeks; or 6 weeks after the last dose of nivolumab should be administered; 3 weeks after the last dose of the combination of nivolumab and ipilimumab if using 240 mg every 2 weeks; or 6 weeks after the last dose of the combination of nivolumab and ipilimumab if using 480 mg every 4 weeks (RCC only). Table 3: Recommended doses and infusion times for intravenous administration of nivolumab for RCC and dMMR or MSI-H CRC Nivolumab Combination phase, every 3 weeks for 4 dosing cycles: 3 mg/kg over 30 minutes Monotherapy phase: 240 mg every 2 weeks over 30 minutes or 480 mg every 4 weeks over 30 minutes (RCC only) Ipilimumab Combination phase, every 3 weeks for 4 dosing cycles: 1 mg/kg over 30 minutes - <u>Desophageal squamous cell carcinoma</u> The recommended dose is either 3 mg/kg nivolumab every 2 weeks or 360 mg nivolumab every 3 weeks administered intravenously over 30 minutes in combination with 1 mg/kg ipilimumab administered intravenously over 30 minutes 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 cabozantinib Renal cell carcinoma The recommended dose is nivolumab administered intravenously at either 240 mg every 4 weeks in combination with 40 mg cabozantinib administered orally every day. Table 4: Recommended doses and infusion times for intravenous administration of nivolumab in combination with oral administered orally every day. istration of cabozantinib for RCC Nivolumab Combination phase: 240 mg every 2 weeks over 30 minutes or 480 mg every 4 weeks over 30 minutes 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 3 weeks, and platinum-based 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 Oesophageal squamous cell carcinoma The recommended dose of nivolumab is 240 mg every 2 weeks or 480 mg every 4 weeks administered intravenously over 30 minutes in combination with fluoropyrimidine- and platinum-based chemotherapy (see section 5.1). Treatment with nivolumab is recommended until disease progression, unacceptable toxicity, or up to 24 months in patients without disease progression. 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 chemotherapy administered every 3 weeks or 240 mg nivolumab administered intravenously over 30 minutes in combination with fluoropyrimidine- and platinum-based 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 are monotherapy or in combination with ipilimumab or other therapeutic agents 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 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 (SmPC) for cabozantinib. Atypical responses (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 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 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 SmPC of these other combination therapeutic agents regarding dosing. Table 5: Recommended treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity: Grade 2 pneumonitis Treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity: Grade 2 pneumonitis Treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity: Grade 2 pneumonitis Treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity: Grade 2 pneumonitis Treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity: Grade 2 pneumonitis Treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity: Grade 2 pneumonitis Treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity: Grade 2 pneumonitis Treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity: Grade 2 pneumonitis Treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity: Grade 2 pneumonitis Treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity: Grade 2 pneumonitis Treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity: Grade 2 pneumonitis Treatment modifications for OPDIVO in combination Immune-related pneumonitis Severity Sever tion Withhold dose(s) until symptoms resolve, radiographic abnormalities improve, and management with corticosteroids is complete Severity: Grade 3 or 4 pneumonitis Treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids, if needed, is complete Severity: Grade 3 diarrhoea or colitis - OPDIVO monotherapy Treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids is complete - OPDIVO+ipilimumaba Treatment modification: Permanently discontinue treatment Severity : Grade 4 diarrhoea or colitis Treatment modification : Permanently discontinue treatment Immune-related hepatitis Severity : Grade 2 elevation in aspartate aminotransferase (AST), alanine a costeroids, if needed, is complete Severity: Grade 3 or 4 elevation in AST, ALT, or total bilirubin Treatment modification : Permanently discontinue treatment with CPDIVO in combination with cabozantinib with liver enzyme elevations, see dosing guidelines following this table. Immune-related nephritis and renal dysfunction Severity: Grade 2 or 3 creatinine elevation Treatment modification: Withhold dose(s) until creatinine elevation Treatment modification and management with corticosteroids is complete. <u>verity</u>: Symptomatic Grade 2 or 3 hypothyroidism, hyperthyroidism, hyperthyroidism, hypophysitis, Severity: Grade 2 adrenal insufficiency Severity: Grade 3 diabetes Treatment modification : Withhold dose(s) until symptoms resolve and management with corticosteroids (if needed for symptoms of acute inflammation) is complete. Treatment should be continued in the presence of hormone replacement therapy as long as no symptoms are present Severity: Grade 4 hypothyroidism Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 4 hypothyroidism Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 4 hypothyroidism Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 4 hypothyroidism Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 4 hypothyroidism Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 4 hypothyroidism Severity: Grade 4 hypothyroidism Severity: Grade 4 hypothyroidism Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 4 hypothyroidism Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 4 hypothyroidism Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 4 hypothyroidism Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 4 hypothyroidism Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 3 or 4 adrenal insufficiency Severity: Grade 4 hypothyroidism Severity: Grade 4 hypothyroidism Severity: Grade 4 hypothyroidism Severity: Grade 4 hypothyroidism Severity: Grade 3 or 4 adrenal insu adverse reactions Severity: Grade 3 rash Treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids is complete Severity: Grade 4 rash Treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids is complete. : Permanently discontinue treatment (see section 4.4) Immune-related myocarditis Severity: Grade 2 myocarditis Severity: Grade 3 or 4 myocarditis Treatment modification: Permanently discontinue treatment of ther immune-related adverse reactions Severity: Grade 3 (first occurrence) Treatment modification: Withhold dose(s) Severity: Grade 3 or 3 despite treatment modification; inability to reduce corticosteroid dose to 10 mg prednisone or equivalent per day Treatment modification: Permanently discontinue treatment Note: Toxicity grades are in accordance with National Cancer Institute Common Terminology Criteria for Adverse Events Version 4.0 (NCI-CTCAE v4). a During administration of the second phase of treatment (nivolumab monotherapy) following combination treatment, permanently discontinue treatment if Grade 3 diarrhoea or colitis occurs. Becommendation for the use of hormone replacement therapy is provided in section 4.4. The safety of re-initiating nivolumab or nivolumab or nivolumab in combination with ipilimumab therapy is provided in section 4.4. The safety of re-initiating nivolumab or nivo should be permanently discontinued for: Grade 4 or recurrent Grade 3 adverse reactions; Persistent Grade 2 or 3 adverse reactions; Persistent Grade 2 or 3 adverse reactions despite management. Patients treated with OPDIVO (see also package leaflet). When OPDIVO is administered in combination with ipilim-

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umab, if either agent is withheld, the other agent should also be withheld. If dosing is resumed after a delay, either the combination of the individual patient. When OPDIVO is administered in combination with chemotherapy, refer to the SmPC of the other combination
therapy agents regarding dosing. 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: - If ALT or AST > 3 times ULN but \le 10 times ULN without concurrent total bilirubin \ge 2 times ULN, both
OPDIVO and cabozantinib should be withheld until these adverse reactions recover to Grades 0-1. Corticosteroid therapy may be considered. Rechallenge with a single medicine or rechallenge with both medicines after recovery may be considered. If rechallenge with cabozantinib, refer to cabozantinib SmPC. - If ALT or AST > 10 times ULN or > 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 <u>Paediatric populations</u> The safety and efficacy of OPDIVO in children below 18 years of age have not been established. Currently available data of OPDIVO as mono-
therapy or in combination with ipilimumab are described in sections 4.8 and 5.1 but no recommendation on a posology can be made. Elderly No dose adjustment is required for elderly patients (\geq 65 years) (see section 5.2). Renal impairment Based on the population pharmacokinetic (PK) results, no dose adjustment is required in patients with mild
or moderate renal impairment (see section 5.2). Data from patients with severe renal impairment are too limited to draw conclusions on this population. Hepatic impairment (see section 5.2). Data from patients with moderate or severe he-
patic impairment are too limited to draw conclusions on these populations. OPDIVO must be administration OPDIVO is for intravenous use
only. It is to be administered as an intravenous infusion over a period of 30 or 60 minutes depending on the dose (see Tables 1, 2, 3 and 4). The infusion must be administered through a sterile, non-pyrogenic, low protein binding in-line filter with a pore size of 0.2-1.2 mm. OPDIVO must not be administered as an intravenous push or bolus injection.
The total dose of OPDIVO required can be infused directly as a 10 mg/mL solution or can be diluted with sodium chloride 9 mg/mL (0.9%) solution for injection (see section 6.6). When administered in combination with ipilimumab and/or chemotherapy, OPDIVO should be given first followed by
ipilimumab (if applicable) and then by chemotherapy on the same day. Use separate infusion bags and filters for each infusion see section 6.6. 4.3 Contraindications Hypersensitivity to the active substance or to any of the excipients listed in sec-
tion 6.1. 4.8 Undesirable effects Nivolumab as monotherapy (see section 4.2) Summary of the safety profile In the pooled dataset of nivolumab as monotherapy across tumour types (n = 4122) with minimum follow-up ranging from 2.3 to 28 months, the most frequent adverse reactions (\geq 10\%) were fatigue (45%), musculoskeletal pain
(31%), diarrhoea (26%), cough (24%), rash (24%), rash (24%), nausea (23%), pruritus (19%), decreased appetite (18%), constipation (16%), upper respiratory tract infection (16%), arthralgia (14%), headache (13%) and oedema (10%). The majority of adverse reactions were
mild to moderate (Grade 1 or 2). With a minimum of 63 months follow-up in NSCLC, no new safety signals were identified. Tabulated summary of adverse reactions Adverse reactions are presented in Table 6. These reactions are presented by system organ
class and by frequency. Frequencies are defined as: very common (\geq 1/10); common (\geq 1/10); common (\geq 1/10); uncommon (\geq 1/10); uncommon (\geq 1/10); very rare (< 1/10,000); very rare (< 1/10,000); not known (cannot be estimated from available post-marketing data). Within each frequency grouping, adverse reactions are present-
ed in the order of decreasing seriousness. Table 6: Adverse reactions with nivolumab monotherapy Infections and infestations Very common upper respiratory tract infection Common pneumonia, bronchitis Rare aseptic meningitis Neoplasms benign, malignant and unspecified (including cysts and
polyps) Rare histiocytic necrotising lymphadenitis (Kikuchi lymphadenitis)-Blood and lymphatic system disorders Very common lymphopaenia, neutropaenia, neut
sensitivity (including anaphylactic reaction)<sup>c</sup> Uncommon sarcoidosis Not known solid organ transplant rejection disorders Common hypothyroidism, hypophysitis, diabetes mellitus Rare diabetic ketoacidosis, hypoparathyroidism Metabolism and nutrition disorders
Very common decreased appetite, hyperalycaemiab, hyperalycaemiab Common dehydration, weight decreased Uncommon metabolic acidosis Not known tumour lysis syndromeb Nervous system disorders. Very common headache Common peripheral neuropathy, dizziness Uncommon polyneuropathy, autoimmune neuropathy (including facial and ab-
ducens nerve paresis) Rare Guillain-Barré syndrome, demyelination, myasthenic syndrome, encephalitisa, encephal
tricular arrhythmia) Vascular disorders Common hypertension Rare vasculitis Respiratory, thoracic and mediastinal disorders Very common diarrhoea, vomiting, nausea, abdominal pain, constipation Common colitisa, stomatitis,
dry mouth Uncommon pancreatitis, gastritis Rare duodenal ulcer Hepatobiliary disorders Uncommon hepatitisc, cholestasis Skin and subcutaneous tissue disorders Very common vitiligo, dry skin, erythema, alopecia, urticaria Uncommon psoriasis, rosacea, erythema multiforme Rare toxic epidermal necrolysisa, Stevens-Johnson
syndrome<sup>a</sup>, Not known lichen sclerosus<sup>h</sup>, other lichen disorders Musculoskeletal and connective tissue disorders Very common musculoskeletal pain<sup>f</sup>, arthralgia Common arthritis Uncommon polymyositis)<sup>a</sup>, rhabdomyolysis<sup>a,e</sup> Renal and urinary disorders Common renal
failure (including acute kidney injury) ac Rare tubulointerstitial nephritis, cystitis noninfective General disorders and administration site conditions Very common fatigue, pyrexia, oedema linvestigations Very common increased AST, hyponatraemia, hypoalbuminaemia, increased alkaline phosphatase, increased creatinine,
increased ALT, increased lipase, hyperkalaemia, increased amylase, hypocalcaemia, hypocalcaemia, hypocalcaemia, hypocalcaemia, hypocalcaemia, hypernatraemia, 
underlying disease. <sup>a</sup> Fatal cases have been reported in completed or ongoing clinical studies. <sup>b</sup> Frequencies of laboratory measurements. See "Description of selected adverse reactions; laboratory abnormalities" below. <sup>c</sup> Life-threatening cases have been
reported in completed or ongoing clinical studies. dermatitis acneiform, rash pruritic, rash pru
exfoliative, dermatitis psoriasiform, drug eruption and pemphigoid. e Reported also in studies outside the pooled dataset. The frequency is based on the program-wide exposure. Musculoskeletal pain is a composite term which includes back pain, musculoskeletal chest pain, musculoskeletal discomfort, myalgia, myalgia intercostal, neck
pain, pain in extremity, and spinal pain. Pericardial pain. Pericardial disorders is a composite term which includes pericardial disorders is a composite term which includes pericardial effusion, cardiac tamponade, and Dressler's syndrome. Anaemia is a composite term which includes, among other
causes, haemolytic anaemia and autoimmune anaemia, haemoglobin decreased, iron deficiency anaemia and red blood cell count decreased, iron deficiency acute, and secondary adrenocortical insufficiency. Includes encephalitis and limbic encephalitis. Toedema is a composite term which includes gen-
eralised oedema, oedema peripheral, peripheral, peripheral swelling and swelling and swelling. Nivolumab in combination with ipilimumab (see section 4.2) Summary of the safety profile When nivolumab is administered in combination with ipilimumab, refer to the SmPC for ipilimumab prior to initiation of treatment. For additional information on the safety profile of ipilimumab.
mumab monotherapy, please refer to the ipilimumab SmPC. Melanoma In the pooled dataset of nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilim
(36%), nausea (26%), pyrexia (19%), decreased appetite (16%), hypothyroidism (16%), colitis (15%), vomiting (14%), arthralgia (13%), headache (11%), and dyspnoea (10%). The majority of adverse reactions were mild to moderate (Grade 1 or 2). Among the patients treated with nivolumab 1 mg/kg in combination
with ipilimumab 3 mg/kg in CA209067, 154/313 (49%) had the first onset of Grade 3 or 4 adverse reactions during the single-agent phase. With a
minimum of 60 months follow up from study CA209067, no new safety signals were identified. RCC and dMMR or MSI-H CRC In the pooled dataset of nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg across tumour types (n = 666), with a minimum follow-up ranging from 17.5 to 27.6 months, the most frequent adverse reac-
tions (\geq 10\%) were fatigue (58%), diarrhoea (41%), musculoskeletal pain (39%), rash (38%), pruritus (35%), abdominal pain (22%), decreased appetite (22%), upper respiratory tract infection (21%), vomiting (21%), headache (19%), dyspnoea (19%), hypothyroidism (18%)
constipation (18%), oedema (including peripheral oedema) (16%), dizziness (14%), hyperthyroidism (12%), dry skin (11%), hypertension (10%). The majority of adverse reactions were mild to moderate (Grade 1 or 2). Among the patients treated with nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg, 194/666 (29%) had the
first onset of Grade 3 or 4 adverse reactions during the initial combination phase. Among the 474 patients in this group who continued treatment in the single-agent phase, 168 (35%) experienced at least one Grade 3 or 4 adverse reaction during the single-agent phase. With a minimum of 60 months follow-up from study CA209214 in RCC, no
new safety signals were identified. OSCC and MPM In the pooled dataset of nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg across tumour types (n = 622), with a minimum follow-up ranging from 20 to 22,1 months, the most frequent adverse reactions (\geq 10\%) were fatigue (32%), rash (31%), diarrhoea (27%), nausea (23%),
pyrexia (21%), decreased appetite (20%), constipation (20%), musculoskeletal pain (19%), pruritus (19%), pruri
chemotherapy alone, with 1.0% fatal adverse reactions attributed to nivolumab plus ipilimumab including pneumonitis. Median duration of therapy was 3.79 months (95% CI: 3.48) for chemotherapy. Tabulated summary of adverse reactions Adverse re-
actions reported in the pooled dataset for patients treated with nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI-H CRC (n = 666), and for patients treated with nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in 
tion with ipilimumab 1 mg/kg in OSCC and MPM (n = 622) are presented in Table 7. These reactions are presented by system organ class and by frequency. Frequencies are defined as: very common (\geq 1/100); uncommon (\geq 1/100); rare (\geq 1/100); rare (\geq 1/1000); rare (\geq 1/10000); very rare (\geq 1/100000).
not known (cannot be estimated from available post-marketing data). Within each frequency grouping, adverse reactions are presented in the order of decreasing seriousness. Table 7: Adverse reactions with nivolumab in combination with ipilimumab Infections and infestations Very Common Nivolumab 3 mg/kg in combination
with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: upper respiratory tract infection Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: pneumonia, upper respiratory tract infection Nivolumab 3 mg/kg in 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with 
combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: pneumonia, bronchitis, conjunctivitis Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: bronchitis Nivolumab 3 mg/kg in some simples of mg/kg in combination with ipilimumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: bronchitis Nivolumab 3 mg/kg in some simples of mg/kg in combination with ipilimumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: bronchitis Nivolumab 3 mg/kg in some simples of mg/kg in combination with ipilimumab 1 mg/kg in combination with ipilimumab 3 mg/kg in some simples of mg/kg in combination with ipilimumab 3 mg/kg in some simples of mg/
in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: aseptic meningitis Not known Nivolumab 1 mg/kg in melanoma: lymphopaeni-
a<sup>b</sup>, leucopoenia<sup>b</sup>, neutropaenia<sup>b</sup>, neutropaenia<sup>b</sup>, thrombocytopaenia<sup>b</sup>, anaemia<sup>b,i</sup> Nivolumab 3 mg/kg in CC and dMMR or MSI H CRC: lymphopaenia<sup>b</sup>, leucopoenia<sup>b</sup>, neutropaenia<sup>b</sup>, anaemia<sup>b,c</sup>, thrombocytopaenia<sup>b</sup>, neutropaenia<sup>b</sup>, neu
niab, thrombocytopaeniab Common Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in rombination with ipilimumab 1 mg/kg in rombination with ipilimumab 3 mg/kg in romb
eosinophilia Not known Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in rombination with ipilimumab 3 mg/kg in rombination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: haemophagocytic lymphohistiocytosis Immune system disorders Common Nivolumab 1 mg/kg in combination
with ipilimumab 3 mg/kg in melanoma: infusion related reaction, hypersensitivity Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in in OSCC and MPMinfusion-related reaction, hypersensitivity Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in in OSCC and MPMinfusion-related reaction, hypersensitivity
Uncommon Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: sarcoidosis Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: solid organ transplant rejection Endocrine dis-
orders Very common Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM: hypothyroidism livelimumab 3 mg/kg in combination with ipilimumab 1 mg/kg in oscC and MPM: hypothyroidism livelimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in oscC and MPM: hypothyroidism
Common Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3
kg in combination with ipilimumab 1 mg/kg in OSCC and MPM: hyperthyroidism, adrenal insufficiency<sup>c</sup>, hypopituitarism, hypophysitis, diabetes mellitus, thyroiditis Uncommon Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ip
  1 mg/kg in RCC and dMMR or MSI H CRC: diabetic ketoacidosis<sup>c</sup>, hypopituitarism Not known Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: diabetic ketoacidosis<sup>c</sup>, hypoparathyroidism<sup>g</sup> Metabolism and nutrition disorders
Very common Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimu
ab 1 mg/kg in OSCC and MPM: decreased appetite, hyperglycaemiab, hyperglycaemiab Common Nivolumab 1 mg/kg in combination, weight decreased Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: dehydration, weight decreased Uncommon
Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: metabolic acidosis Not known Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: tumour lysis syndrome<sup>h</sup> Nervous system disorders Very common Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma:
Headache Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: headache, dizziness Common Nivolumab 1 mg/kg in relanoma in peripheral neuropathy, dizziness Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC:
peripheral neuropathyUncommon Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: Guillain-Barré syndrome, polyneuropathy, neuritis, peroneal nerve palsy, autoimmune neuropathy, neuritis, peroneal nerve palsy, autoimmune neuropathy, neuritis, peroneal nerve palsy, autoimmune neuropathy, neuritis, peroneal nerve palsy, autoimmune neuropathy (including facial and abducens nerve paresis), encephalitisc Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR.
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or MSI H CRC: polyneuropathy, autoimmune neuropathy (including facial and abducens nerve paresis), myasthenia gravis<sup>c</sup>, encephalitis Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: uveitis, blurred
 vision Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: uveitis Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM: uveitis Not known Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in CCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: uveitis Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM: uveitis Not known Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in CCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in CCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: blurred vision Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: 
  1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma : Vogt-Koyanagi-Harada syndrome Cardiac disorders Common Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 1 mg/kg in melanoma : tachycardia Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: tachycardia Uncommon Nivolumab 3 mg/kg in RCC a
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 nation with ipilimumab 3 mg/kg in melanoma: hypertension Respiratory, thoracic and mediastinal disorders Very common Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: dyspnoea, cough Common Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: dyspnoea, cough Common Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: dyspnoea, cough Common Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: dyspnoea, cough Common Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: dyspnoea, cough Common Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: dyspnoea, cough Common Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: dyspnoea, cough Common Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: dyspnoea, cough Common Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC: dyspnoea, cough Common Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipil
  1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: pneumonitis<sup>a,c</sup>, pulmonary embolism<sup>a</sup>, cough Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC: pneumonitis, pleural effusion Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM: pneumonitis<sup>a,c</sup> Uncommon
 Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: pleural effusion Gastrointestinal disorders Very common Nivolumab 1 mg/kg in melanoma: diarrhoea, vomiting, nausea, abdominal pain Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR
or MSI H CRC: diarrhoea, vomiting, nausea, abdominal pain, constipation, dry mouth Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: stomatitis, pancreatitis, constipation, dry mouth Nivolumab 3 mg/kg in
 combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: colitis, stomatitis, pancreatitis, dry mouth, gastritis Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: intestinal perforation<sup>a</sup>, gastritis,
 duodenitis Hepatobiliary disorders Common Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in oSCC and MPM: hepatitis Skin and subcuta-
 neous tissue disorders Very common Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM: rashd, pruritus
 Common Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: vitiligo, dry skin, erythema, alopecia, urticaria Uncommon Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: vitiligo, dry skin, erythema, alopecia, urticaria Uncommon Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma:
 psoriasis Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: Stevens-Johnson syndrome, vitiligo, erythema multiforme, psoriasis Rare Nivolumab 1 mg/kg in melanoma: toxic epidermal necrolysis<sup>a,e</sup> Stevens-Johnson syndrome<sup>e</sup> Not known Nivolumab 1 mg/kg
 in combination with ipilimumab 3 mg/kg in melanoma: lichen sclerosus, other lichen disorders Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM: lichen sclerosus, other lichen disorders Musculoskeletal
 and connective tissue disorders Very common Nivolumab 1 mg/kg in combination with ipilimumab 1 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM:
musculoskeletal painf Common Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: musculoskeletal painf Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in combination with ipilimumab 1 mg/kg in combination with ipilimumab 1 mg/kg in OSCC
 and MPM: arthritis Uncommon Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: spondyloarthropathy, Sjogren's syndrome, arthritis, myopathy, myositis (including polymyositis)<sup>a,d</sup>, rhabdomyolysis<sup>a,e</sup> Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: polymyalgia rheumatica,
 myositis (including polymyositis), rhabdomyolysis Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimum
 imumab 1 mg/kg in RCC and dMMR or MSI H CRC: renal failure (including acute kidney injury). Vivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: tubulointerstitial nephritis, cystitis noninfective.
 Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: tubulointerstitial nephritis, cystitis noninfective General disorders and administration site conditions Very common Nivolumab 1 mg/kg in combination with ipilimumab 1 mg/kg in CRC: tubulointerstitial nephritis, cystitis noninfective General disorders and administration site conditions Very common Nivolumab 1 mg/kg in combination with ipilimumab 1 mg/kg in CRC: tubulointerstitial nephritis, cystitis noninfective General disorders and administration site conditions.
 tion with ipilimumab 3 mg/kg in melanoma: fatigue, pyrexia Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM: fatigue, pyrexia Common Nivolumab 1 mg/kg in a combination with ipilimumab 1 mg/kg in OSCC and MPM: fatigue, pyrexia Common Nivolumab 1 mg/kg in a combination with ipilimumab 1 mg/kg in OSCC and MPM: fatigue, pyrexia Common Nivolumab 1 mg/kg in a combination with ipilimumab 1 mg/kg in OSCC and MPM: fatigue, pyrexia Common Nivolumab 1 mg/kg in a combination with ipilimumab 1 mg/kg in OSCC and MPM: fatigue, pyrexia Common Nivolumab 1 mg/kg in a combination with ipilimumab 1 mg/kg in OSCC and MPM: fatigue, pyrexia Common Nivolumab 1 mg/kg in a combination with ipilimumab 1 mg/kg in OSCC and MPM: fatigue, pyrexia Common Nivolumab 1 mg/kg in a combination with ipilimumab 1 mg/kg in OSCC and MPM: fatigue, pyrexia Common Nivolumab 1 mg/kg in a combination with ipilimumab 1 mg/kg in observable and a combination with ipilimumab 2 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observable and a combination with ipilimumab 3 mg/kg in observa
 combination with ipilimumab 3 mg/kg in melanoma: oedema (including peripheral oedema), pain Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: chest pain Investigations Very common
 Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma: increased alkaline phosphatase, increased alkaline phosphatase, increased alkaline phosphatase, increased amylase, increased alkaline phosphatase, incre
 ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC: increased AST, increased AST, increased alkaline phosphatase, increased amylase, increased alkaline phosphatase, increased amylase, increased alkaline phosphatase, increased
 ab 1 mg/kg in OSCC and MPM: hyponatraemia<sup>c</sup>, increased AST, increased AST, increased ALT, increased alkaline phosphatase, hypocalcaemia, hypercalcaemia, hype
 kg in melanoma: hypercalcaemia, hypermagnesaemia, hypermagnesaemia, hypermagnesaemia, hypermagnesaemia, hypermagnesaemia a Fatal cases have been reported in completed or on-
 going clinical studies. b Frequencies of laboratory terms reflect the proportion of patients who experienced a worsening from baseline in laboratory measurements. See "Description of selected adverse reactions; laboratory measurements. See "Description of selected adverse reactions reactio
 term which includes maculopapular rash, rash erythematous, rash pruritic, rash pruritic, rash popular, rash macular, rash macular, rash macular, rash popular, rash papular, rash papula
 siform, drug eruption and pemphigoid. Reported also in studies outside the pooled dataset. The frequency is based on the program-wide exposure. Musculoskeletal chest pain, musculoskeletal discomfort, myalgia, neck pain, pain in extremity, and spinal pain. Post-mar-
 keting event (also see section 4.4) he Reported in clinical studies and in the post-marketing setting. Pericardial disorders is a composite term which includes, among other causes, haemolytic anaemia and autoimmune anaemia.
 Nivolumab in combination with other therapeutic agents (see section 4.2) Summary of the safety profile When nivolumab is administered in combination, refer to the SmPC for the respective combination of treatment. In the pooled dataset of nivolumab 240 mg every 2 weeks or 360 mg every 3 weeks in
 combination with chemotherapy across tumour types (n = 1092), with a minimum follow-up ranging from 12.1 to 20 months, the most frequent adverse reactions (\geq 10\%), decreased appetite (35%), decreased appetite (35%), constipation (30%), vomiting (29%), stomatitis (25%), ab-
 dominal pain (23%), pyrexia (19%), rash (17%), musculoskeletal pain (17%), cough (14%), hypoalbuminaemia (13%), headache (10%). Incidences of Grade 3-5 adverse reactions were 76% for nivolumab in combination with chemotherapy and 62% for chemotherapy alone, with 1.4% fatal adverse
 reactions attributed to nivolumab in combination with chemotherapy including pneumonia, febrile neutropaenia, thrombosis, pneumonitis, diarrhoea, and renal failure. Median duration of therapy was 6.44 months (95% CI: 5.95, 6.80) for nivolumab in combination with chemotherapy and 4.34 months (95% CI: 4.04, 4.70) for chemotherapy. In
 the dataset of nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 6 weeks and 2 cycles of chemotherapy in NSCLC (n = 358), with a minimum follow-up of 6.5 months, the most frequent adverse reactions were fatigue (36%), nausea (26%), rash (25%), diarrhoea (20%), pruritus (18%), decreased appetite (16%),
 hypothyroidism (15%), and vomiting (13%). The majority of adverse reactions were mild to moderate (Grade 1 or 2). Median duration of therapy was 6.1 months (95% CI 2.30, 2.83) for chemotherapy. Tabulated summary of adverse reactions
 Adverse reactions reported in the dataset for patients treated with nivolumab 240 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 4 weeks reactions reported in the dataset for patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 4 weeks reactions reported in the dataset for patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 3 weeks reactions reported in the dataset for patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 3 weeks reactions reported in the dataset for patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 3 weeks reactions reported in the dataset for patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 3 weeks reactions reported in the dataset for patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 3 weeks reactions reported in the dataset for patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 3 weeks reactions reported in the dataset for patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 3 weeks reactions reported in the dataset for patients reactions reactions reported in the dataset for patients reactions reactions reactions reactions reported in the dataset for patients reactions reaction
 6 weeks and 2 cycles of chemotherapy in NSCLC (n = 358) are presented in Table 8. These reactions are presented by system organ class and by frequency. Frequencies are defined as: very common (\geq 1/100); uncommon (\geq 1/100); rare (\geq 1/100); rare (\geq 1/100); rare (\geq 1/100); very rare (< 1/100); very rare (< 1/100).
 not known (cannot be estimated from available post marketing data). Within each frequency grouping, adverse reactions are presented in the order of decreasing seriousness. Table 8:Adverse reactions with nivolumab in combination with other therapeutic agents Infections and infestations Common Nivolumab in combination
 with chemotherapy: upper respiratory tract infection, pneumonia, respiratory tract infection, pneumonia, respiratory tract infection Blood and lymphatic system disorders Very Common Nivolumab in combination with chemotherapy: neutropaenia<sup>c</sup>, anaemia<sup>c</sup>, leucopoenia<sup>c</sup>, lymphopaenia<sup>c</sup>, thrombocy-
 topaenia Nivolumab in combination with ipilimumab and chemotherapy: anaemia uncommon Nivolumab in combination with chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy: febrile neutropaenia uncommon Nivolumab in combination with ipilimumab and chemotherapy in combination with ipil
 with chemotherapy: eosinophilia Nivolumab in combination with ipilimumab and chemotherapy: hypersensitivity, infusion related reaction Nivolumab in combination with ipilimumab and chemotherapy: infusion-related reaction, hypersensitivity Endocrine
 disorders Very common Nivolumab in combination with ipilimumab and chemotherapy: hypothyroidism, adrenal insufficiency, hypothyroidism,
 Nivolumab in combination with chemotherapy: hypopituitarism, diabetes mellitus Nivolumab in combination with chemotherapy: hypophysitis Metabolism and nutrition disorders Very common Nivolumab in combination with chemotherapy: de-
 creased appetite, hypoalbuminaemia, hyperalycaemia, hyperalycaemia, hyperalycaemia, hypoalbuminaemia Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: dehydration, hypoalbuminaemia, hypoalbuminaemia, hypoalbuminaemia Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy: decreased appetite Common Nivolumab in combination with ipilimumab and chemotherapy are chemotherapy.
 Nervous system disorders Very Common Nivolumab in combination with chemotherapy: peripheral neuropathy, dizziness Uncommon Nivolumab in combination with ipilimum-
 ab and chemotherapy: polyneuropathy, autoimmune neuropathy, autoimmune neuropathy (including facial and abducens nerve paresis), encephalitis Rare Nivolumab in combination with ipilimumab and chemotherapy: dry eye, blurred vision Nivolumab in combination with ipilimumab and chemotherapy.
 ab and chemotherapy: dry eye Uncommon Nivolumab in combination with chemotherapy: uveitis Nivolumab in combination with chemotherapy: myocarditis
 Nivolumab in combination with ipilimumab and chemotherapy: tachycardia, atrial fibrillation, bradycardia, atrial fibrillation, bradycardia Vascular disorders Very
 common Nivolumab in combination with chemotherapy: cough Common Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, cough Uncommon Nivolumab in combination with ipilimumab and chemotherapy: pneumonitis, dyspnoea, d
 disorders Very common Nivolumab in combination with chemotherapy: diarrhoea, vomiting, nausea, abdominal pain, constipation Nivolumab in combination with chemotherapy: colitisf, dry mouth Nivolumab in combination with hipilimumab and chemotherapy: nausea, abdominal pain, constipation Nivolumab in combination with pilimumab and chemotherapy: nausea, abdominal pain, constipation Nivolumab in combination with chemotherapy: nausea, abdominal pain, constipation Nivolumab in combination with pilimumab and chemotherapy: nausea, abdominal pain, constipation Nivolumab in combination with pilimumab and chemotherapy: nausea, abdominal pain, constipation Nivolumab in combination with pilimumab and chemotherapy: nausea, abdominal pain, constipation Nivolumab in combination with pilimumab and chemotherapy: nausea, abdominal pain, constipation Nivolumab and chemotherapy and chem
 ab and chemotherapy: constipation, stomatitis, abdominal pain, colitis, dry mouth, pancreatitis Uncommon Nivolumab in combination with chemotherapy: hepatitis Skin and
 subcutaneous tissue disorders Very common Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus Common Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus Common Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus Common Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation, alopecia, dry skin, erythema Nivolumab in combination with chemotherapy: rash<sup>a</sup>, pruritus, skin hyperpigmentation with chemotherapy: r
 ab in combination with ipilimumab and chemotherapy: alopecia, dry skin, erythema, urticaria Uncommon Nivolumab in combination with ipilimumab and chemotherapy: lichen sclerosus, other lichen disorders Musculoskeletal and
 connective tissue disorders Very common Nivolumab in combination with chemotherapy: arthralgia, muscular weakness Nivolumab in combination with ipilimumab and chemotherapy: musculoskeletal pain<sup>b</sup>, arthralgia, arthritis Uncommon Nivolumab in combination with chemotherapy: musculoskeletal pain<sup>b</sup>, arthralgia, arthritis Uncommon Nivolumab in combination with
 ipilimumab and chemotherapy: muscular weakness, muscle spasms, polymyalgia rheumatica Renal and urinary disorders Common Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (including acute kidney injury) Uncommon Nivolumab in combination with chemotherapy: renal failure (injury) Uncommon Nivolumab in combination with chemotherapy injury (injury) Uncommon
 therapy: nephritis, cystitis noninfective Nivolumab in combination with ipilimumab and chemotherapy: cystitis noninfective Rare Nivolumab in combination with chemotherapy: fatigue, pyrexia, oedema (including peripheral
oedema) Nivolumab in combination with ipilimumab and chemotherapy: fatigue Common Nivolumab in combination with ipilimumab and chemotherapy: chills, chest pain Investigations Very common Nivolumab in combination
 with chemotherapy: hypocalcaemia<sup>c</sup>, increased transaminases<sup>c</sup>, hyponatraemia<sup>c</sup>, increased amylase, hypomagnesaemia<sup>c</sup>, increased disline phosphatase, hypomagnesaemia<sup>c</sup>, increased transaminases<sup>c</sup>, hypomagnesaemia<sup>c</sup>, increased disline phosphatase, hypomagnesaemia<sup>c</sup>, increased total bilirubin<sup>c</sup>, hypomagnesaemia<sup>c</sup>, increased transaminases<sup>c</sup>, hypomagnesaemia<sup>c</sup>, increased transaminases<sup>c</sup>, hypomagnesaemia<sup>c</sup>, increased alkaline phosphatase, hypomagnesaemia<sup>c</sup>, increased transaminases<sup>c</sup>, hypomagnesaemia<sup>c</sup>, increased alkaline phosphatase, hypomagnesaemia<sup>c</sup>, hypomagnesaemia<sup>c</sup>, 
 phophatases, increased transaminases, increased transaminases, increased creatinine, increased amylase, increased total bilirubin, increased total bilirubin, increased transaminases, increased transaminases, increased transaminases, increased creatinine, increased total bilirubin, increased
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thyroid stimulating hormone Uncommon Nivolumab in combination with ipilimumab and chemotherapy: increased gamma-glutamyltransferase. a Rash is a composite term which includes maculopapular rash, rash pruritic, rash macular, rash macular, rash papular, rash generalised, dermatitis, dermatitis, dermatitis acneiform, dermatitis
allergic, dermatitis atopic, dermatitis bullous, drug eruption, and exfoliative rash, nodular rash, rash vesicular. b Musculoskeletal pain, bone pain, myalgia, neck pain, pain in extremity, spinal pain, and musculoskeletal discomfort. Frequencies of laboratory terms reflect the
proportion of patients who experienced a worsening from baseline in laboratory measurements. See "Description of selected adverse reactions; laboratory abnormalities" below. Anaemia is a composite term which includes iron deficiency anaemia, and haemoglobin decreased. Reported in clinical studies and in the post-marketing setting. Life-threat-
ening cases have been reported in completed or ongoing clinical studies. Fatal cases have been reported in combination with cabozantinib, refer to the SmPC for cabozantinib prior
to initiation of treatment. For additional information on the safety profile of cabozantinib monotherapy, please refer to the dataset of nivolumab 240 mg every 2 weeks in combination with cabozantinib 40 mg once daily in RCC (n = 320), with a minimum follow-up of 16.0 months, the most frequent adverse reac-
tions (\geq 10\%) were diarrhoea (40.0\%), fatique (51.3\%), palmar-plantar erythrodysaesthesia syndrome (40.0\%), stomatitis (38.8\%), musculoskeletal pain (37.2\%), hypertension (37.2\%), hyp
tract infection (20.6%), cough (20.6%), pruritus (20.6%), pruritus (20.6%), arthralgia (19.4%), vomiting (18.4%), dysphonia (17.8%), dysphonia (17
majority of adverse reactions were mild to moderate (Grade 1 or 2). Tabulated summary of adverse reactions are presented in the dataset for patients treated with nivolumab 240 mg in combination with cabozantinib 40 mg (n = 320) are presented in Table 9. These reactions are presented by system organ class and by frequency.
Frequencies are defined as: very common (\geq 1/10); common (\geq 1/100); uncommon (\geq 1/1
nivolumab in combination with cabozantinib Infections and infestations Very common upper respiratory tract infection co
tivity (including anaphylactic reaction) Uncommon infusion related hypersensitivity reaction; Endocrine disorders Very common hypothyroidism, hyperthyroidism, hyperthyroidism Common hypothyroidism, hyperthyroidism, hyperthyroid
Common dehydration; Nervous system disorders Very common dysgeusia, dizziness, headache Common peripheral neuropathy Uncommon encephalitis autoimmune, Guillain-Barré syndrome; Ear and labyrinth disorders Common tinnitus; Eye disorders Common dry eye, blurred vision Uncommon uveitis; Cardiac disorders Common descendence Common descende
atrial fibrillation, tachycardia Uncommon myocarditis; Vascular disorders Very common hypertension Common dysphonia, dyspnoea, cough Common pneumonitis, pulmonary embolism, pleural effusion, epistaxis; Gastrointestinal disorders Very common diarrhoea, vomiting,
nausea, constipation, stomatitis, abdominal pain, dyspepsia Common colitis, gastritis, oral pain, dry mouth, haemorrhoids Uncommon hepatitis; Skin and subcutaneous tissue disorders. Very common palmar-plantar erythrodysaesthesia syndrome, rash<sup>c</sup>, pruritus
Common alopecia, dry skin, erythema, hair colour change Uncommon psoriasis, urticaria Not known lichen sclerosus, other lichen disorders Very common musculoskeletal paind, arthralgia, muscle spasm Common arthritis Uncommon myopathy, osteonecrosis of the jaw, fistula; Renal and urinary disorders
Very common proteinuria Common renal failure, acute kidney injury Uncommon nephritis Rare cystitis noninfective<sup>f</sup>; General disorders and administration site conditions Very common fatique, pyrexia, oedema Commonpain, chest pain; Investigations<sup>e</sup> Very common increased alkaline phosphatase, increased ALT, increased AST, increased total bilirubin
increased creatinine, increased amylase, increased lipase, hypokalaemia, hypomagnesaemia, hypomagnesaemia, hyporatraemia, hypo
tributable to nivolumab alone but may contain contributions from the underlying disease or from medicinal product used in combination. Thrombosis, pulmonary thrombosis, acrtic thrombosis, acrtic thrombosis, deep vein thrombosis, pelvic vein thrombosis, pelvic vein thrombosis, vena
cava thrombosis, venous thrombosis, limb venous thrombosis, limb venous thrombosis. <sup>b</sup> Fatal cases have been reported. <sup>c</sup> Rash is a composite term which includes dermatitis allergic, dermatitis allergic, dermatitis allergic, dermatitis allergic, dermatitis allergic, dermatitis allergic, dermatitis acneiform, dermatitis allergic, dermatitis allergic, dermatitis allergic, dermatitis acneiform, rash macular, rash macula
pruritic, and drug eruption. d Musculoskeletal pain is a composite term which includes back pain, bone pain, musculoskeletal discomfort, myalgia, neck pain, pain in extremity, spinal pain. e Frequencies of laboratory terms reflect the proportion of patients who experienced a worsening from baseline in laboratory measure-
ments (with the exception of blood cholesterol increased, and hypertriglyceridaemia). See "Description of selected adverse reactions; laboratory abnormalities" below feeting setting. Description of selected adverse reactions Nivolumab or nivolumab in combination with other therapeutic agents is associ-
ated with immune-related adverse reactions. With appropriate medical therapy, immune-related adverse reactions resolved in most cases. Permanent discontinuation of treatment was required in a greater proportion of patients receiving nivolumab in combination with ipilimumab or cabozantinib than in those receiving nivolumab monotherapy. Tables 10
and 11 present the percentage for immune-related adverse reactions who were permanently discontinued from treatment by dosing regimen. Additionally, for patients who required high-dose corticosteroids (at least 40 mg daily prednisone equivalents) by dosing regimen
The management guidelines for these adverse reactions are described in section 4.4. Table 10: Immune-related adverse reactions leading to permanent discontinuation or requiring high-dose corticosteroids by dosing regimen (nivolumab monotherapy or nivolumab in combination with ipilimumab)
Immune-related adverse reaction leading to permanent discontinuation Pneumonitis Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 2.3
Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM%: 3.2 Colitis Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in melanoma %: 16 Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in melanoma %: 16 Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 3.6 Nivolumab 3 mg/kg in RCC an
ab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM%:3.1 Hepatitis Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in Combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 4.5 Nivolumab 3 mg/kg in g/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 4.5 Nivolumab 3 mg/kg in g/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 4.5 Nivolumab 3 mg/kg in g/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 4.5 Nivolumab 3 mg/kg in g/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 4.5 Nivolumab 3 mg/kg in g/kg in g/kg in combination with ipilimumab 3 mg/kg in RCC and dMMR or MSI H CRC %: 4.5 Nivolumab 3 mg/kg in g/kg 
kg in combination with ipilimumab 1 mg/kg in OSCC and MPM%:3.4 Nephritis and renal dysfunction with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 1.4
Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM%: 1.0 Endocrinopathies Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 1 mg/kg in CCC and dMMR or MSI H CRC %: 2.9
Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM%: 1.9 Skin Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and MPM%: 1.9 Skin Nivolumab 3 mg/kg in relianoma %: 0.9 Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 1.2 Nivolumab
3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM%:0.8 Hypersensitivity/Infusion reaction Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %:
0 Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM%:0.8 Immune-related adverse reaction requiring high-dose corticosteroids<sup>a,b</sup> Pneumonitis Nivolumab 3 mg/kg or 240 mg monotherapy %: 65 Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma %: 63 Nivolumab 3 mg/kg or 240 mg monotherapy %: 65 Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma %: 63 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in melanoma %: 63 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in melanoma %: 63 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimum
kg in combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 58 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma %: 46 Nivolumab 3 mg/kg in com-
bination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 24 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 3 mg/kg in melanoma %: 46 Nivolumab 3 mg/kg in combination
with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 36 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in melanoma %: 17 Nivolumab 3 mg/kg in
combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 26 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in combination with ipilimumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma %: 27 Nivolumab 3 mg/kg in
combination with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 24 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in comb
ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 8 Nivolumab 3 mg/kg in combination with ipilimumab 3 mg/kg in melanoma %: 6 Nivolumab 3 mg/kg in combi-
nation with ipilimumab 1 mg/kg in RCC and dMMR or MSI H CRC %: 12 Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM%:16 at least 40 mg daily prednisone equivalents b frequency is based on the number of patients who experienced the immune-related adverse reaction Table 11: Immune related adverse
reactions leading to permanent discontinuation or requiring high dose corticosteroids by dosing regimen (nivolumab in combination with other therapeutic agents) Immune related adverse reaction leading to permanent discontinuation. Pneumonitis Nivolumab 240 mg or 360 mg in combination
with chemotherapy \( \frac{\circ}{\circ} 2.4 \) Nivolumab 360 mg in combination with ipilimumab 1 mg/kg and chemotherapy in NSCLC \( \circ \): 2.2 Nivolumab 240 mg in combination with chemotherapy \( \circ \): 2.5 Nivolumab 360 mg in combination with ipilimumab 1 mg/kg and \( \circ \) mg in RCC \( \circ \): 2.5 Colitis Nivolumab 360 mg in combination with ipilimumab 1 mg/kg and \( \circ \)
chemotherapy in NSCLC %: 4.2 Nivolumab 240 mg in combination with cabozantinib 40 mg in combinat
mg in RCC %: 4.1 Nephritis and renal dysfunction Nivolumab 240 mg in combination with chemotherapy in NSCLC %: 1.4 Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %: 0.6 Endocrinopathies Nivolumab 240 mg or 360 mg in 360 
in combination with chemotherapy %: 0.5 Nivolumab 360 mg in combination with ipilimumab 1 mg/kg and chemotherapy in NSCLC %: 2.0 Nivolumab 240 mg in combination with cabozantinib 40 mg in combination with chemotherapy %: 1.0 Nivolumab 360 mg in combination with ipilimumab 1 mg/kg and chemotherapy in NSCLC %: 2.0 Nivolumab 240 mg in combination with cabozantinib 40 mg in combination with cabozantinib 40 mg in combination with cabozantinib 40 mg in RCC %: 1.3 Skin Nivolumab 240 mg in combination with cabozantinib 40 mg in combination with cabozantinib 40 mg in combination with cabozantinib 40 mg in RCC %: 1.3 Skin Nivolumab 240 mg in combination with cabozantinib 40 mg in combination with cabozantinib 40 mg in combination with cabozantinib 40 mg in RCC %: 1.3 Skin Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %: 1.3 Skin Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %: 1.3 Skin Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %: 1.3 Skin Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %: 1.3 Skin Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %: 1.3 Skin Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %: 1.3 Skin Nivolumab 240 mg in RCC %: 1.3 
  1 mg/kg and chemotherapy in NSCLC %: 1.1 Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %: 2.2 Hypersensitivity/Infusion reaction Nivolumab 240 mg in combination with chemotherapy %: 2.5 Nivolumab 360 mg in combination with ipilimumab 1 mg/kg and chemotherapy in NSCLC %: 0.6 Nivolumab 240
mg in combination with cabozantinib 40 mg in RCC %: 0 Immune related adverse reaction requiring high dose corticosteroids | Nivolumab 240 mg in combination with chemotherapy %: 59 Nivolumab 360 mg in combination with ipilimumab 1 mg/kg and chemotherapy in NSCLC %: 68 Nivolumab 240 mg
in combination with cabozantinib 40 mg in RCC %: 56 Colitis Nivolumab 240 mg in RCC %: 56 Colitis Nivolumab 240 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in combination with chemotherapy in NSCLC %: 20 Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in combination with chemotherapy in NSCLC %: 20 Nivolumab 240 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 mg in RCC %: 8 Hepatitis Nivolumab 240 mg or 360 m
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nation with ipilimumab 1 mg/kg and chemotherapy in NSCLC %: 24 Nivolumab 240 mg in combination with cabozantinib 40 mg in combination with chemotherapy %: 6 Nivolumab 360 mg in combination with ipilimumab 1 mg/kg and chemotherapy in NSCLC %: 8 Nivolumab 240 mg
in combination with cabozantinib 40 mg in RCC 4.2 Skin Nivolumab 240 mg in RCC 4.2 Skin Nivolumab 240 mg in RCC %: 8 Hypersensitivity/Infusion reaction Nivolumab 1 mg/kg and chemotherapy in NSCLC %: 10 Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %: 8 Hypersensitivity/Infusion reaction Nivolumab 360 mg in combination with cabozantinib 40 mg in RCC %: 8 Hypersensitivity/Infusion reaction Nivolumab 360 mg in combination with cabozantinib 40 mg in RCC %: 8 Hypersensitivity/Infusion reaction Nivolumab 360 mg in RCC %: 8 Hypersensitivity/Infusion reaction Nivolumab 360 mg in RCC %: 10 Nivolumab 360 mg in RCC %: 8 Hypersensitivity/Infusion reaction Nivolumab 360 mg in RCC %: 10 Nivolumab 360 mg in RCC %: 10 Nivolumab 360 mg in RCC %: 10 Nivolumab 360 mg in RCC %: 8 Hypersensitivity/Infusion reaction Nivolumab 360 mg in RCC %: 10 Nivolumab 360 mg in RCC %: 10 Nivolumab 360 mg in RCC %: 8 Hypersensitivity/Infusion reaction Nivolumab 360 mg in RCC %: 10 Nivolumab 360 mg in RCC %: 10 Nivolumab 360 mg in RCC %: 8 Hypersensitivity/Infusion reaction Nivolumab 360 mg in RCC %: 10 Nivolumab 360 m
240 mg or 360 mg in combination with chemotherapy \%: 24 Nivolumab 360 mg in combination with ipilimumab 1 mg/kg and chemotherapy in NSCLC \%: 29 Nivolumab 240 mg in RCC \%: 0 at least 40 mg daily prednisone equivalents frequency is based on the number of patients who experienced the
immune related adverse reaction Immune-related pneumonitis In patients treated with nivolumab monotherapy, the incidence of pneumonitis, including interstitial lung disease and lung infiltration, was 3.6% (147/4122). The majority of cases were Grade 1 or 2 in severity reported in 0.9% (38/4122) and 1.8% (74/4122) of patients respective-
ly. Grade 3 and 4 cases were reported in 0.8% (32/4122) and <0.1% (1/4122) of patients respectively. Grade 5 cases were reported in 0.8% (32/4122) and <0.1% (1/4122) of patients in these studies. Median time to onset was 14.4 weeks (range: 0.7-85.1). Resolution occurred in 100 patients (68.0%) with a median time to resolution of 6.6 weeks (range: 0.7-85.1).
0.1+109.1+); + denotes a censored observation. In patients treated with nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma, the incidence of pneumonitis including interstitial lung disease, was 7.8% (35/448). Grade 2, Grade 3, and Grade 4 cases were reported in 4.7% (21/448), 1.1% (5/448), and 0.2% (1/448)
of patients, respectively. One of the Grade 3 pneumonitis cases worsened over 11 days with a fatal outcome. Median time to onset was 2.6 months (range: 0.7-12.6). Resolution occurred in 33 patients (94.3%) with a median time to resolution of 6.1 weeks (range: 0.3-35.1). 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 pneumonitis including interstitial lung disease was 6.5% (43/666). Grade 2 and Grade 3 cases were reported in 3.3% (22/666) and 1.1% (7/666), of patients, respectively. Median time to onset was 2.7 months (range: 0.25-56.8). Resolution occurred in 3.9 patients
 (90.7%) with a median time to resolution of 6.1 weeks (range: 0.7-110.3+). In patients treated with nivolumab 3 mg/kg in OSCC and MPM, the incidence of pneumonitis including interstitial lung disease was 7.7% (48/622). Grade 3 and Grade 4 cases were reported in 3.7% (23/622), 1.3%
(8/622) and 0.6% (4/622) of patients, respectively. Median time to onset was 2.7 months (range: 0.3 20.8). Resolution of 7.1 weeks (range: 0.1+ - 149.3+). In patients treated with nivolumab 240 mg or 360 mg in combination with chemotherapy in OSCC and gastric, GEJ
or oesophageal adenocarcinoma, the incidence of pneumonitis including interstitial lung disease was 5.4% (59/1092). Grade 2, Grade 3, and Grade 4 cases were reported in 2.7% (29/1092), of patients, respectively. Median time to onset was 24.1 weeks (range: 1.6-96.9). Resolution occurred in
40 patients (67.8%) with a median time to resolution of 10.4 weeks (range: 0.3+-121.3+). In patients treated with nivolumab 360 mg every 3 weeks and chemotherapy in NSCLC, the incidence of pneumonitis including interstitial lung disease was 5.3% (19/358). Grade 2, Grade 3, and
Grade 4 cases were reported in 2.2% (8/358), 1.1% (4/358), and 0.6% (2/358) of patients, respectively. Median time to onset was 18.1 weeks (range: 0.7-27.9+). In patients treated with nivolumab 240 mg in combination with
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cabozantinib 40 mg in RCC the incidence of pneumonitis including interstitial lung disease was 5.6% (18/320). Grade 2 and Grade 3 cases were reported in 1.9% (6/320) and 1.6% (5/320) of patients, respectively. Median time to onset was 26.9 weeks (range: 12.3-74.3 weeks). Resolution occurred in 1.4 patients (77.8%) with a median
time to resolution of 7.5 weeks (range: 2.1-60.7+ weeks). Immune-related colitis In patients treated with nivolumab monotherapy, the incidence of diarrhoea, colitis, or frequent bowel movements was 15.3% (631/4122). The majority of cases were Grade 1 or 2 in severity reported in 9.9% (409/4122) and 3.9% (160/4122) of patients
respectively. Grade 3 and 4 cases were reported in 1.5% (61/4122) and <0.1% (1/4122) of patients respectively. Median time to onset was 7.9 weeks (range: 0.1-115.6). Resolution of 2.4 weeks (range: 0.1-124.4+). In patients treated with nivolumab 1 mg/kg in combina-
tion with ipilimumab 3 mg/kg in melanoma, the incidence of diarrhoea or colitis was 46.7% (209/448). Grade 2, Grade 3, and Grade 4 cases were reported in 13.6% (61/448), 15.8% (71/448), and 0.4% (2/448) of patients, respectively. Median time to onset was 1.2 months (range: 0.0-22.6). Resolution occurred in 186 patients (89.4%)
with a median time to resolution of 3.0 weeks (range: 0.1-159.4+). In patients treated with nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC, the incidence of diarrhoea or colitis was 27.9% (186/666). Grade 2 and Grade 3 cases were reported in 9.6% (64/666) and 4.7% (31/666) of patients,
respectively. Median time to onset was 1.4 months (range: 0.0-48.9). Resolution occurred in 170 patients (92.4%) with a median time to resolution of 2.2 weeks (range: 0.1-117.0+). In patients treated with nivolumab 3 mg/kg in OSCC and MPM, the incidence of diarrhoea or colitis was 16.7% (104/622).
Grade 2 and Grade 3 cases were reported in 5.5% (34/622) and 3.4% (21/622) of patients, respectively. Median time to onset was 3.3 months (range: 0.0 - 21.7). Resolution occurred in 98 patients (94.2%) with a median time to resolution of 3.1 weeks (range: 0.1 -109.3+). In patients treated with nivolumab 240 mg or 360 mg in com-
bination with chemotherapy in OSCC and gastric, GEJ or oesophageal adenocarcinoma, the incidence of diarrhoea or colitis was 29.8% (325/1092). Grade 2, Grade 3, and Grade 4 cases were reported in 9.4% (103/1092), 4.0% (44/1092) of patients, respectively. Median time to onset was 4.4 weeks (range: 0.1-93.6).
Resolution occurred in 284 patients (87.7%) with a median time to resolution of 1.6 weeks (range: 0.1-117.6+). In patients treated with nivolumab 360 mg every 3 weeks and chemotherapy in NSCLC, the incidence of diarrhoea or colitis was 22.3% (80/358). Grade 2, Grade 3, Grade 3
4, and Grade 5 cases were reported in 7% (25/358), 5% (18/358), 0.3% (1/358), and 0.
in combination with cabozantinib 40 mg in RCC, the incidence of diarrhoea, colitis, frequent bowel movements or enteritis was 59.1% (189/320). Grade 2 and Grade 3 cases were reported in 25.6% (82/320) and 6.3% (20/320) of patients, respectively. Grade 4 were reported in 0.6% (2/320). Median time to onset was 12.9 weeks (range:
0.3-110.9 weeks). Resolution occurred in 143 patients (76.1%) with a median time to resolution of 12.9 weeks (range: 0.1-139.7+ weeks). Immune-related hepatitis In patients treated with nivolumab monotherapy, the incidence of liver function test abnormalities was 7.4% (306/4122). The majority of cases were Grade 1 or 2 in severity re-
ported in 4.0% (165/4122) and 1.7% (70/4122) of patients respectively. Grade 3 and 4 cases were reported in 1.4% (59/4122) of patients, respectively. Median time to onset was 10.0 weeks (range: 0.1-120.0). Resolution occurred in 240 patients (79.5%) with a median time to resolution of 6.1 weeks (range: 0.1-120.0).
0.1-126.4+) In patients treated with nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma, the incidence of liver function test abnormalities was 29.5% (132/448). Grade 3, and Grade 4 cases were reported in 6.7% (30/448), 15.4% (69/448), and 1.8% (8/448) of patients, respectively. Median time to onset
was 1.5 months (range: 0.0-30.1). Resolution occurred in 124 patients (93.9%) with a median time to resolution of 5.1 weeks (range: 0.1-106.9). In patients treated with nivolumab 3 mg/kg in RCC and dMMR or MSI H CRC, the incidence of liver function test abnormalities was 19.8% (132/666).
Grade 2, Grade 3, and Grade 4 cases were reported in 4.8% (32/666), 7.4% (49/666), and 1.5% (10/666) of patients, respectively. Median time to onset was 2.1 months (range: 0.3-36.6). Resolution occurred in 112 patients (84.8%) with a median time to resolution of 6.3 weeks (range: 0.1+-175.9+). In patients treated with nivolumab
3 mg/kg in combination with ipilimumab 1 mg/kg in OSCC and MPM, the incidence of liver function test abnormalities was 12.9% (80/622). Grade 2, Grade 3, and 4 cases were reported in 2.3% (14/622), 4.5% (28/622) and 0.5% (3/622) of patients, respectively. Median time to onset was 1.6 months (range:0.2-20.3). Resolution oc-
curred in 70 patients (87.5%) with a median time to resolution of 4.1 weeks (range: 1.0 78.3+). In patients treated with nivolumab 240 mg or 360 mg in combination chemotherapy in OSCC and gastric, GEJ or oesophageal adenocarcinoma, the incidence of liver function test abnormalities was 21.6% (236/1092). Grade 2, Grade 3 and Grade 4
cases were reported in 7.1% (77/1092), 3.2% (35/1092) and < 0.1% (1/1092) of patients, respectively. Median time to onset was 7.9 weeks (range: 0.1-84.1). Resolution of 9.1 weeks (range: 0.4-150.6+). 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 liver function test abnormalities was 13.4% (48/358). Grade 2, Grade 3, and Grade 4 cases were reported in 3.1% (11/358), 3.4% (12/358) of patients, respectively. Median time to onset was 10.6 weeks (range: 1.1-
68.3). Resolution occurred in 37 patients (80.4%) with a median time to resolution of 5 weeks (range: 0.3+-45.0+). In patients treated with nivolumab 240 mg in RCC, the incidence of liver function test abnormalities was 41.6% (133/320). Grade 2, Grade 3, and Grade 4 cases were reported in 14.7%
(47/320), 10.3% (33/320), and 0.6% (2/320) of patients, respectively. Median time to onset was 8.3 weeks (range: 0.1-107.9 weeks). Resolution of 9.6 weeks (range: 0.1-89.3+ weeks). Immune-related nephritis and renal dysfunction. In patients treated with nivolumab.
monotherapy, the incidence of nephritis or renal dysfunction was 2.7% (112/4122). The majority of cases were Grade 1 or 2 in severity reported in 1.6% (66/4122) and 4 cases were reported in 0.4% (17/4122) and <0.1% (1/4122) of patients, respectively. Median time to onset was
11.3 weeks (range:0.1-79.1). Resolution occurred in 74 patients (69.2%) with a median time to resolution of 8.0 weeks (range: 0.3 79.1+). In patients treated with nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma, the incidence of nephritis or renal dysfunction was 5.1% (23/448). Grade 2, Grade 3, and Grade 4
cases were reported in 1.6% (7/448), 0.9% (4/448), and 0.7% (3/448) of patients, respectively. Median time to onset was 2.6 months (range: 0.5-21.8). Resolution occurred in 21 patients (91.3%) with a median time to resolution of 2.1 weeks (range: 0.1-125.1+). In patients treated with nivolumab 3 mg/kg in combination with ipilimum-
ab 1 mg/kg in RCC and dMMR or MSI H CRC, the incidence of nephritis or renal dysfunction was 8.6% (57/666). Grade 2, Grade 3, and Grade 4 cases were reported in 3.8% (25/666), 0.6% (4/666), and 0.8% (5/666) of patients, respectively. Median time to onset was 2.1 months (range: 0.0-34.8). Resolution occurred in 45 patients
(78.9%) with a median time to resolution of 10.0 weeks (range: 0.1+-106.0+). In patients treated with nivolumab 3 mg/kg in OSCC and MPM, the incidence of renal dysfunction was 3.7% (23/622). Grade 2 and Grade 3 cases were reported in 1.4% (9/622) and 1.0% (6/622) of patients, respec-
tively. Median time to onset was 2.8 months (range: 0.3-14.4). Resolution occurred in 17 patients (73.9%) with a median time to resolution of 9.6 weeks (range:0.7-172.1+). In patients treated with nivolumab 240 mg or 360 mg in combination with chemotherapy in OSCC and gastric, GEJ or oesophageal adenocarcinoma, the incidence of
nephritis or renal dysfunction was 9.1% (99/1092). Grade 2, Grade 3, and Grade 4 cases were reported in 3.7% (40/1092), and 0.2% (2/1092) of patients, respectively. Median time to onset was 11.3 weeks (range: 0.7-60.7). Resolution occurred in 62 patients (62.6%) with a median time to resolution of 11.7 weeks
(range: 0.1-135.1+). 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 nephritis or renal dysfunction was 7% (25/358). Grade 2, Grade 3, and Grade 4 cases were reported in 2.2% (8/358), 1.7% (6/358), and 0.6 (2/358) of
patients, respectively. Median time to onset was 10.6 weeks (range: 0.1-51.3). Resolution of 6.3 weeks (range: 0.1+-82.9+). In patients treated with nivolumab 240 mg in combination with cabozantinib 40 mg in RCC, the incidence of nephritis, immune mediated nephritis, renal
failure, acute kidney injury, blood creatinine increased or blood urea increased was 10.0% (32/320). Grade 2 and Grade 3 cases were reported in 3.4% (11/320), and 1.3% (4/320) of patients, respectively. Median time to onset was 14.2 weeks (range: 2.1-87.1 weeks). Resolution occurred in 18 patients (58.1%) with a median time to
resolution of 10.1 weeks (range: 0.6-90.9+ weeks). Immune-related endocrinopathies In patients treated with nivolumab monotherapy, the incidence of thyroid disorders, including hypothyroidism or hyperthyroidism, was 12.5%(516/4122). The majority of cases were Grade 1 or 2 in severity reported in 6.1% (253/4122) and 6.2% (256/4122)).
of patients, respectively. Grade 3 thyroid disorders were reported in 0.2% (7/4122) of patients. Hypophysitis (3 Grade 2, 7 Grade 3), adrenal insufficiency (including secondary adrenocortical insufficiency and adrenocortical insufficiency acute) (1 Grade 1, 17 Grade 2, and 8
Grade 3), diabetes mellitus (including Type 1 diabetes mellitus, and diabetic ketoacidosis) (1 Grade 1, 4 Grade 2 and 5 Grade 3 and 2 Grade 3). Resolution occurred in 278 patients (49.8%). Median time to resolution was 44.1 weeks (range:0.4
to 204.4+ weeks. In patients treated with nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg in melanoma, the incidence of 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 hypopituitarism occurred in 0.4% (2/448) and 0.7% (3/448) of patients, respectively. Grade 3 hypopituitarism 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 diabetes mellitus and Grade 4 diabetes mellitus and Grade 3, and Grade 4 diabetes mellitus and Grade 4 diabetes mellitus and Grade 3, and Grade 3, and Grade 4 diabetes mellitus and Grade 4 diabetes mellitus and Grade 3, and Grade 4 diabetes mellitus and Grade 3, and Grade 3, and Grade 3, and Grade 4 diabetes mellitus and Grade 4 diabetes mellitus and Grade 3, and Grade 3, and Grade 4 diabetes mellitus and Grade 3, and Grade 4 diabetes mellitus and Grade 4 diabetes mellitus and Grade 3, and Grade 4 diabetes mellitus and Grade 3, 
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 were reported in 15.3% (102/666) and 1.7% (11/666) of patients, respectively. Hypo-
physitis occurred in 3.9% (26/666) of patients. Grade 2, Grade 3, and Grade 4 cases were reported in 0.8% (5/666), and 0.3% (15/666), and 0.3% (15/666), and 0.3% (15/666) of patients. Grade 2 hypopituitarism occurred in 0.5% (3/666) of patients. Grade 3, and Grade 4 adrenal insufficiency (including secondary adrenocortical insufficiency).
cy) 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 4), and 2 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 OSCC and MPM, the incidence of thyroid disorders was 18.2% (113/622). Grade 2 and Grade 3 thyroid disorders were reported in 8.0% (50/622)) and 0.5% (3/622) of patients,
respectively. Hypophysitis occurred in 2.3% (14/622) of patients. Grade 2 cases were reported in 1.1% (7/622) of patients. Grade 3 hypopituitarism occurred in 1.6% (10/622) and 1.3% (8/622) of patients, respectively. Grade 3 and Grade 3 and Grade 3 drenal insufficiency (including secondary adrenocortical insufficiency) occurred in 1.6% (10/622) and 1.3% (8/622) of patients.
in 2.1% (13/622), 1.3% (8/622), and 0.2% (1/622) of patients, respectively. Diabetes mellitus including Type 1 diabetes mellitus (3 Grade 2 and 2 Grade 3) were reported. Median time to onset of these endocrinopathies was 2.4 months (range: 0.4 - 20.8). Resolution occurred in 43 patients (30.7%).
Time to resolution ranged from 0.3 to 185.1+ weeks. In patients treated with nivolumab 240 mg or 360 mg in combination with chemotherapy in OSCC and gastric, GEJ or oesophageal adenocarcinoma, the incidence of thyroid disorders was 11.7% (128/1092). Grade 2 thyroid disorder was reported in 5.5% (60/1092) patients. Grade 3 hypo-
physitis occurred in < 0.1% (1/1092) of patients. Grade 2 and Grade 3 hypopituitarism occurred in 0.3% (3/1092) and 0.3% (3/1092) and 0.3% (3/1092) and 0.3% (3/1092) of patients, respectively. Diabetes mellitus including Type 1
diabetes mellitus and fulminant Type 1 diabetes mellitus (1 Grade 2, 2 Grade 3 and 1 Grade 4), and diabetic ketoacidosis (1 Grade 4) were reported. Median time to onset of these endocrinopathies was 14.3 weeks (range: 2.0-124.3). Resolution occurred in 56 patients (38.9%). Time to resolution ranged from 0.4 to 155.7+ 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 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 hypopituitarism occurred in 1.7% (6/358) and 1.4% (5/358) of patients, respectively. Diabetes mellitus including Type 1 diabetes melli-
tus 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, all Grade 2. Adrenal insufficiency (including secondary adrenocortical insufficiency) occurred in 4.7% (15/320) of patients. Grade 2 and Grade 3 adrenal insuffi-
ciency 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. Immune-related skin adverse reactions In patients treated with
nivolumab monotherapy, the incidence of rash was 29.5% (1215/4122). The majority of cases were Grade 1 in severity reported in 22.4% (924/4122) of patients. Grade 2 and Grade 3 cases were reported 5.7% (235/4122) and 1.4% (56/4122) of patients respectively. Median time to onset was 6.3 weeks (range:0.1-121.1). Resolution
occurred in 779 patients (64.6%) with a median time to resolution of 18.1 weeks (0.1 - 192.7+). 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 OSCC and MPM, the incidence of rash was 35.0% (218/622). Grade 2, Grade 3 and Grade 4 cases were reported in 11.3% (70/622), 3.4% (21/622) and 0.2% (1/622) of patients, respectively. Median time to onset was 1.1 months (range: 0.0 22.3). Resolution occurred in 150 patients (69.1%) with a me-
dian time to resolution of 11.9 weeks (range: 0.3-176.9+). In patients treated with nivolumab 240 mg or 360 mg in combination with chemotherapy in OSCC and gastric, GEJ or oesophageal adenocarcinoma, the incidence of rash was 24.5% (267/1092). Grade 2 and Grade 3 cases were reported in 6.4% (70/1092), and 2.5% (27/1092)
of patients, respectively. Median time to onset was 9.1 weeks (range: 0.1-97.4). Resolution occurred in 166 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), and 0.3\% (1/358), and 0.3\% (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
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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 3.9% (160/4122), including 9 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 2.2% (10/448) of patients. 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 hypersensitivity/infusion reactions was 3.8% (25/666); 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 OSCC and MPM, the incidence of hypersensitivity/infusion reactions was 7.2% (45/622); Grade 1, Grade 2 and Grade 3 cases were reported in 3.4% (21/622), 3.2% (20/622) and 0.6% (4/622) of patients, respectively. In patients treated with nivolumab 240 mg or 360 mg in combination with chemotherapy in OSCC and gastric, GEJ or oesophageal adenocarcinoma, the incidence of hypersensitivity/infusion reactions was 10.6% (116/1092). Grade 2, Grade 3, and Grade 4 cases were reported in 6.5% (71/1092), 1.4% (15/1092) and 0.2% (2/1092) of patients, respectively. In patients treated with nivolumab 360 mg every 3 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 2.2% (8/358), 0.3% (1/358), and 0.3% (1/358) of patients, respectively. In patients treated with nivolumab 240 mg in RCC, the incidence of hypersensitivity/infusion reactions was 2.5% (8/320). All 8 patients were Grade 1 or 2 in severity. Grade 2 cases were reported in 0.3% (1/320) of patients. Complications of allogeneic HSCT in classical Hodgkin lymphoma Rapid onset of GVHD has been reported with nivolumab use before and after allogeneic HSCT (see section 4.4). In 62 evaluated patients from two cHL studies who underwent allogeneic HSCT after discontinuing nivolumab monotherapy, Grade 3 or 4 acute GVHD was reported in 17/62 patients (27.4%). Hyperacute 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 HSCT 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), 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) 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: 3.9% for anaemia (all Grade 3), 0.7% for thrombocytopaenia, 0.8% for leucopoenia, 9.6% for lymphopaenia, 1.0% for neutropaenia, 1.9% for increased alkaline phosphatase, 2.7% for increased alkaline phosphatase, 2.7% for increased total bilirubin, 0.7% for increased amylase, 7.4% for increased amylase, 7.4% for increased lipase, 5.2% for hyponatraemia, 1.7% for hyperkalaemia, 1.4% for hypokalaemia, 1.2% for hypercalcaemia, 0.7% for hypermagnesaemia, 0.4% for hype 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 leucopoenia, 6.7% for leucopoenia, 6.7% for leucopoenia, 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 hyperalcaemia, 0.5% for hyperalcaemia, 0.5% for hyperalcaemia, 0.2% each for hyperalcaemia, 0.5% for hyperalcaemia, 0.5% for hyperalcaemia, 0.5% for hyperalcaemia, 0.2% each for hyperalcaemia, 0.5% for hype 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 thrombocytopaenia, 5.3% for leucopoenia, 5.3% for lymphopaenia, 1.1% for neutropaenia, 2.8% for increased alkaline phosphatase, 6.7% for increased AST, 7.8% for increased ALT, 1.8% for increased total bilirubin, 2.2% for hyperglycaemia, 1.1% for increased amylase, 20.2% for hyperglycaemia, 1.1% for increased lipase, 0.5% for hyperglycaemia, 1.2% for hyperglycaemia, 2.2% for hyperglycaemia, permagnesaemia, 0.3% for hypomagnesaemia 2.2% for hypomagnesaemia 2.2% for hypomagnesaemia 2.2% for hypomagnesaemia 2.2% for hypomagnesaemia 3.2% for hypomagnesaemia 2.2% for hypomagnesaemia 3.2% anaemia, 1.0% for thrombocytopaenia, 1.2% for leucopoenia, 1.1% for hyperglycaemia, 1.1% for hyperglycaemia, 1.1% for hyperglycaemia, 5.6% for increased alkaline phosphatase, 6.5% for increased alkalin 12.5% for increased lipase, 0.7% for hypernatraemia, 10.0% for hypernatraemia, 2.8% for hyperkalaemia, 3.7% for hyperkalaemia, 3.7% for hyperkalaemia, 3.7% for hyperkalaemia, 10.0% for hyperkalaemia, 2.8% for hyperkalaemia, 3.7% for hyperkalaemia, 2.8% for hyperkalaemia, 3.7% for hyperkalaemia al adenocarcinoma, the proportion of patients who experienced a worsening from baseline to a Grade 3 or 4 laboratory abnormality was as follows: 16.3% for thrombocytopaenia, 15.4% for lymphopaenia, 26.1% neutropaenia, 3.0% for increased alkaline phosphatase, 4.2% for increased AST, 3.1% for increased ALT, 2.3% for increased bilirubin, 1.4% for increased creatinine, 5.9% for hyperalcaemia, 1.7% for hyperalcaemia, 1.7% for hyperalcaemia, 1.0% for hyperalcaemia, 1.5% for hyperalcaemia, 1.5% for hyperalcaemia, 1.5% for hyperalcaemia, 1.1% for hyperalcaemia, 2.0% for hyperalcaemia, 1.5% for hyperalcaemia, 1.5% for hyperalcaemia, 1.1% for hyperalcaemia, 2.0% for hyperalcaemia, 1.5% for hyperalcaemia, 2.0% for hyperalcaemia, 2.1% 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 thrombocytopaenia, 9.8% for leucopoenia, 5.8% for lymphopaenia, 14.7% for increased amylase, 11.9% for increased alkaline phosphatase, 3.5% for increased amylase, 11.9% for increased amylase, 11.9% for increased alkaline phosphatase, 3.5% for increased alkaline phos mia, 1.2% for hypercalcaemia, 1.7% for hyperkalaemia, 0.3% for hypermagnesaemia, 1.2% for hypomagnesaemia 3.5% for hypomagnesaemia, 1.2% for hypomagnesaemia 3.5% 3 or 4 laboratory abnormality was as follows: 3.5% for increased total bilirubin, 1.3% for increased total bilirubin, 1.3% for increased creatinine, 11.9% for laboratory abnormality was as follows: 3.5% for increased total bilirubin, 1.3% for increased creatinine, 11.9% for increased alkaline phosphatase, 8.2% for increased ALT, 1.3% for increased total bilirubin, 1.3% for increased creatinine, 11.9% for increased alkaline phosphatase, 8.2% fo increased amylase, 15.6% for increased lipase, 3.5% for hyperglycaemia, 0.8% for hyperglycaemia, 0.8% for hyperglycaemia, 0.8% for hyperglycaemia, 1.9% for hyperglycaemia, 3529 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, 328 patients (0.6%) 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, 7.5% tested positive for treatment emergent anti-product-antibodies with 0.5% 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 and ipilimumab and evaluable for the presence of anti-nivolumab and ipilimumab and ipilimuma kg every 6 weeks, and 37.8% with nivolumab 1 mg/kg and ipilimumab 1 mg/kg every 3 weeks. The incidence of neutralising antibodies against nivolumab 3 mg/kg every 3 weeks, 1.5% 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 ranged from 0.3 to 13.7% and neutralising antibodies ranged from 0.3 to 13.7% and neutralising antibodies ranged from 6.3 to 13.7% and neutralising antibodies. imumab and chemotherapy and evaluable for the presence of anti-nivolumab antibodies or neutralising antibodies or neutralising antibodies was 33.8% and the incidence of neutralising 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 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 or in combination. Paediatric population on the pharmacokinetic and exposure-response analyses for both 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 SCCHN, adjuvant melanoma, and adjuvant OC or GEJC 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 too limited to draw conclusions on this population (see section 5.1). In MPM patients, there was a higher rate of serious adverse reactions and discontinuation rate due to adverse reactions and discontinuation rate due to adverse reactions and discontinuation rate due to adverse reactions in patients 75 years of age or older (68% and 35%, 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 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 Appendix V. 7. MARKETING AUTHORISATION HOLDER Bristol-Myers Squibb Pharma EEIG Plaza 254 Blanchardstown Corporate Park 2 Dublin 15, D15 T867 Ireland 8. MARKETING AUTHORISATION NUMBER(S) EU/1/15/1014/001 EU/1/15/1014/002 EU/1/15/1014/003 EU/1/15/1014/003 EU/1/15/1014/003 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 25 April 2022. Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu