

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. One vial of 10 mL contains 100 mg of nivolumab. One vial of 24 mL contains 240 mg of nivolumab. Nivolumab is produced in Chinese hamster ovary cells by recombinant DNA technology. Excipient with Inpown 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. PHARMACEUTICAL FORM Concentrate for solution for infusion (sterile concentrate). Clear to opalescent, colouriess to pale yellow liquid that may contain few light particles. The solution has a pH of approximately 6.0 and an osmolality of approximately 340 mOsm/kg. 4. CLINICAL PARTICULARS 4.1 Therapeutic indications. <u>Melanoma</u> OPOWO as monotherapy or in combination with ipilimumab is indicated for the treatment of advanced (unresectable or metastatic) melanoma in adults. Relative to nivolumab monotherapy, an increase in progression-free survival (PFS) and overall survival (OS) for the combination of nivolumab with pillinumab is established only in patients with low tumour PD-L1 expression (see sections 4.4 and 5.1). Adjuvant treatment of melanoma of the progression of the progression of the adjuvant treatment of adults with melanoma with involvement of lymph nodes or metastatic disease who have undergone complete resection (see section 5.1). Non-small cell lung cancer (NSCLC) OPDIVO in combination with ipilimumab and 2 cycles of platinum-based chemotherapy is indicated for the first-line treatment of metastatic non-small cell lung cancer in adults whose tumours have no sensitising EGFR mutation or ALK translocation. OPDIVO as monotherapy is indicated for the treatment of locally advanced or metastatic non-small cell lung cancer after prior chemotherapy in adults. <u>Renal cell carcinoma (RCC)</u> OPDIVO as monotherapy is indicated for the treatment of advanced renal cell carcinoma after prior therapy in adults. OPDIVO in combination with inlimnumab 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). <u>Classical Hodgkin lymphoma (cHL)</u> 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. <u>Squamous cell cancer of the head and neck (SCCHN)</u> OPDIVO as monotherapy is indicated for the treatment of recurrent or metastatic squamous cell cancer of the head and neck in adults progressing on or after platinum-based therapy (see section 5.1). <u>Utothelial 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. <u>Desophageal squamous cell</u> cardinama (DSCC) OPONYO as monotherapy is indicated for the treatment of adult patients with unresectable advanced, recurrent or metastatic oesophageal squamous cell cardinama after prior fluoropyrimidine- and platinum-based combination chemotherapy. 4.2 Posology and method of administration Treatment must be initiated and supervised by physicians experienced in the treatment of cancer. Posology (DPDIVO as monotherapy The recommended dose of OPDIVIO 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 involumab monotherapy Indication* Melanoma (advanced or adjuvant treatment), Renal cell carcinoma Recommended dose and infusion time: 240 mg every 2 weeks over 30 minutes or 480 mg every 4 weeks over 60 minutes, Non-small cell lung cancer, adjusting the control of the control be administered; 3 weeks after the last dose of the combination of nivolumab and ipilinumab if using 240 mg every 2 weeks; or 6 weeks after the last dose of the combination of nivolumab and ipilinumab if using 480 mg every 4 weeks. Jable 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 pilimumab Combination phase, every 3 weeks for 4 dosing cycles : 3 mg/kg over 90 minutes - Renal cell carcinoma: The recommended dose is 3 mg/kg nivolumab in combination with 1 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 3. For the monotherapy phase, the first dose of nivolumab should be administered; 3 weeks after the last dose of the combination of nivolumab and pilimumab if using 240 mg every 2 weeks, or 6 weeks after the last dose of the combination of nivolumab and pilimumab if using 480 mg every 4 weeks. Table 3. Recommended doses and infusion times for intravenous administration of nivolumab in combination with ipilimumab for RCC Nivolumab Combination phase, every 3 weeks for 4 dosing cycles : 3 mg/lg over 30 minutes Monotheapy phase: 240 mg every 2 weeks over 30 minutes of 400 mg every 4 weeks over 30 minutes light may be a consistent of the second of administration of nivolumab in combination with oral administration of aboxambinib for RC Mivolumab Combination phase 240 mg every 2 weeks over 30 minutes or 400 mg every 4 weeks over 60 minutes Caboxantinib Combination phase 40 mg once daily. OPDIVO in combination with ipilimumob and chemotherapy Non small cell lung cancer The recommended dose is 360 mg over on immuses caucardination combination places — uniq net ceaps, "or "or vivo in combination with minutes caucardinate intermentally guides in the capture of minutes every of weeks and platinum-based chemotherapy administered intervenously over 30 minutes every 6 weeks. After completion of 2 cycles of chemotherapy, treatment is continued with 360 mg nivolumab administered intravenously over 30 minutes every 6 weeks. After completion of 2 cycles of chemotherapy, treatment is continued with 360 mg nivolumab administered intravenously every 3 weeks in combination with full file places. The combination with full file places progression, unacceptable toxicity, or up to 24 months in patients without disease progression. Under the places of the places Cabozantinib should be continued until disease progression or unacceptable toxicity, Refer to the Summary of Product Characteristics (SmPC) for cabozantinib. Alppical 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 nivolumab or nivolumab in combination with pilinumab for clinically stable patients with initial evidence of disease progression until disease progression is confirmed. Dose excalation or reduction is not recommended for OPDIVO as monotherapy or in combination with other therapeutic agents. Dosing delay or discontinuation may be required based on individual safety and tolerability. Guidelines for permanent discontinuation or withholding of doses are described in Table 5. Detailed guidelines for the management of immune-related adverse reactions are described in section 4.4. When nivolumab is administered in combination with other therapeutic agents, refer to the SmPC of these other combination therapeutic agents regarding dosing. Table S. Recommended treatment modifications for OPDIVO or OPDIVO in combination Immune-related pneumonits Severity: Grade 2 pneumonitis Treatment modification Withhold dose(s) until symptoms resolve, radiographic abnormalities improve, and management with corticostendis is complete Sevenity: Gade 3 or 4 perunionis freatment modification: Permanently discontinue treatment Immune-related colitis Sevenity: Grade 2 diarrhoea or colitis Treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids, if needed, is complete Sevenity: Grade 3 diarrhoea or colitis - OPDNO monotherapy Treatment modification: Withhold dose(s) until symptoms resolve and management with corticosteroids is complete - OPUND-ipilimumab' interatment modification : Permanently discontinue treatment Severity : Grade 4 diamhoes or collists Tieratment modification : Permanently discontinue treatment Severity : Grade 4 diamhoes or collists Tieratment modification : Permanently discontinue treatment Immune-related hepatitis Severity : Grade 2 elevation in aspartate aminotransferase (AST), alanine aminotransferase (ALT), or total bilirubin Treatment modification : Withhold dose(s) until laboratory values return to baseline and management with corticosteroids, if needed, is complete Severity : Grade 3 or 4 elevation in AST, ALT, or total bilirubin Treatment modification: Permanently discontinue treatment. NOTE: for RCC patients treated with OPDIVO in combination with caboxantinib 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 returns to baseline and management with corticosteroids is complete Seventy: Grade 4 creatinine elevation Treatment modification: Permanently discontinue treatment Immune-related endocrinopathies Seventy: Symptomatic Grade 2 or 3 hypothyroidism, hyperthyroidism, hypophysitis, Seventy: Grade 2 adrenal insufficiency Seventy: 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's long as no symptoms are present Severity: Grade 4 hypothyroidism Severity: Grade 4 Mypothyroidism Severity: Grade 4 Mypoth Stevens-Johnson syndrome (SS) or toxic epidemal necrolosis (TRV) Treatment modification - Permanently discontinue treatment (see section 4.4) Immune-related myocarditis Severity : Grade 2 myocarditis Treatment modification : Withhold dose(s) until symptoms resolve and management with corticosteroids is complete Severity : Grade 3 or 4 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 or 4 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 4 or 5 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 4 or 5 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 4 or 5 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 4 or 6 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 4 or 7 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 4 or 7 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 4 or 7 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 4 or 7 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 4 or 7 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 4 or 7 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 myocarditis Treatment modification : Withhold dose(s) Severity : Grade 3 myocarditis Treatment modification : Withhold do recurrent Grade 3 ; persistent Severity : Grade 2 or 3 despite treatment modification: inability to reduce corticosteroid dose to 10 mg prednisone or equivalent per day Treatment modification: Permanently discontinue treatment Note: Toxicity grades are in accordance with National Cancer Institute Common Terminology Criteria for Adverse Events Version 4.0 (NG-TCTAE v4). "During administration of the second phase of treatment (inviounals monotherapy) following combination breatment, permanently discontinue treatment if Grade 3 diarnhose are collists occurs. *
Recommendation for the use of hormone replacement therapy is provided in section 4.4. *The safety of re-initiating nivolumab or nivolumab in combination with ipilimumab therapy in patients previously experiencing immune-related myocarditis is not known. DPIVID as monotherapy or in combination with other therapeutic agents should be permanently discontinued for acide 4 or recurrent Grade 3 adverse reactions, Persistent Grade 2 or 3 adverse reactions despite management. Patients treated with OPDIVIO must be given the patient alert card and be informed about the risks of OPDIVIO (see also package leafled). When OPDIVIO is administered in combination with julimumab, if either agent is withheld, the other agent should also be withheld. If dosing is resumed after a delay, either the combination treatment or OPDIVIO monotherapy could be resumed based on the evaluation of the individual patient. OPDIVIO in combination with observation in PCC 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 PCC being treated with OPDIVO in combination with cabozantinib: -If ALT or AST > 3 times ULN but < 10 times ULN without concurrent total bilirubin 2 2 times ULN, both OPDIVO and caboxantinib should be withheld until these adverse reactions recover to Grades O-L Corticosteroid therapy may be considered. Rechallenge with a single medicine or rechallenge with both medicines after recovery may be considered. If rechallenging with caboxantinib, refer to caboxantinib SmPC. - If ALT or AST > 10 times ULN or > 3 times ULN with concurrent total billinubin ≥ 2 times ULN, both OPDIVO and caboxantinib should be permanently discontinued and corticosteroid therapy may be considered. Special populations <u>Poediatric</u> population. The safety and efficacy of OPDIND in children below 18 years of age have not been established. No data are available. Elizety, No dose adjustment is required for elderly patients (2 65 years) (see section 5.2). Renot impoirment. 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. Hepotic impoirment Based on the population PK results, no dose adjustment is required in patients with mild hepatic impairment (see section 5.2). Data from patients with moderate or severe hepatic impairment are too limited to draw conclusions on these populations, OPDIVO must be administered with caution in patients with moderate (total bilirubin > 1.5 × to 3 × the upper limit of normal [ULN] and any AST) or severe (total bilirubin > 3 × ULN) and any AST) henatic impairment. Method of 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 ables 1, 2, 3 and 4). The infusion must be administered through a sterile, non-pyrogenic, low protein binding in-line filter with a provisize of 0.2-12 mm, 0PDNO must not be administered as an intravenous push or bolus injection. The total dose of 0PDNO required can be infused directly, as a 10 mg/mL solution or can be diluted with sodium thloride 9 mg/ mt (0.9%) solution for injection or glucose SD mg/mt (5%) solution for injection (see section 6.6). When administered in combination with injimumab or in combination with injimumab and chemotherapy, OPDNO should be given first followed by ipilimumab and then by chemotherapy on the same day. Use separate infusion bags and filters for each infusion. For instructions on the preparation and handling of the medicinal product before administration, see section 6.6. 4.3 Contraindications Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.4.8 Undesirable effects Nivolumab as monotherapy (see section 4.2) Summary of the sofety profile in the pooled dataset of nivolumab as monotherapy across tumour types (n = 3239) with minimum follow-up ranging from 2.3 to 28 months, the most frequent adverse reactions (2 10%) were fatigue (31%), rash (10%), pruritus (14%), diarnhoea (14%), and nausea (12%). The majority of adverse reactions were mild to moderate (Grade 1 or 2). With a minimum of 63 months follow-up in MSCLC, no new safety signals were identified. *Tobulated summary of otherse reactions* Adverse reactions reported in the pooled dataset for patients treated with nivolumab monotherapy (n = 3239) are presented in Table 6. These reactions are presented by system organ class and by frequency. Frequencies are defined as: very common (≥ 1/10); common (≥ 1/100 to < 1/100, to < 1/100, to < 1/100, rare (≥ 1/100, rare (≥ 1/100, to < 1/100, to < 1/100, rare (≥ 1/100, to < 1/100, rare (≥ 1/100, to < 1/100, to < 1/100, to < 1/100, rare (≥ 1/100, to < 1/100, to special rogardizes and by right inches and preference are represented in the order and examining 2 prior to 17 point inchment 2 prior to 17 point 2 prio insufficiency', hypophystis, thypophystis, thypoiditis, diabetes mellitus Rare diabetic ketoacidosis Not known hypoparathyroidism' Metabolism and nutrition disordes Common deceased appetite Uncommon dehydration, metabolic acidosis Not known tumour lysis syndrome' Nervous system disorders Common peripheral neuropathy, headache, dizziness Uncommon polyneuropathy, autoimmune neuropathy (including facial and abducers nerve paresis) Rare Guillain-Barré syndrome, demyelination, myrasthenic syndrome, encephalitis*** Eye disorders Common dry eye Uncommon uveits, blurred vision Not known Voge Horyanag-Harada syndrome' Cardiac disorders Uncommon tachtcardia, period disorders Rare arrhythmia (including ventricular arrhythmia)*, myocarditis* Vascular disorders Common hypertension Rare vasculitis Respiratory, thoracic and mediastinal disorders Common pneumonitis*, dyspnoea*, cough Uncommon pleural effusion Rare lung infiltration Gastrointestinal disorders Very common diarnhoea, nausea Common colitis*, stomatitis, vomiting, abdominal pain, constipation, dry mouth Uncommon panoreatitis, gastritis Rare duodenal ulcer Hepatobiliary disorders Uncommon hepatitis' Rare cholestasis Skin and subcutaneous tissue disorders Very common rasht', pruritus Common vitilieo, dry skin, erythema, alopecia Uncommon psoriasis, rosacea, urticaria Rare toxic epidermal necrolysis' erythema multiforme, Stevens-Johnson syndromes¹, Not known lichen

sclerosus, other lichen disorders Musculoskeletal and connective tissue disorders Common musculoskeletal pain^e, arthralgia Uncommon arthritis Rare Sjogren's syndrome, myopathy, myositis (Including polymyosits)¹², rhabdomyolyiss², polymyalgia rheumatica Renal and urinary disorders Uncommon tubulointe stitial nephritis, renal failure (including acute kidney injury)⁵² General disorders and administration site conditions Very common fatigue Common pyrexia, oedems' Uncommon pain, chest pain Investigations' Very common increased AST, increased ALT, increased alkaline phosphatase, increased lipase, increased amylase, hypocalcaemia, increased creatinine, hyperglycaemia; lymphopaenia, leucopoenia, thrombocytopaenia, anaemia^s, hypercalcaemia hyperkalaemia, hypokalaemia, hypomagnesaemia, hyponatraemia, neutropenia^{ac} Common increased total bilirubin, hypoglycaemia, hypermagnesaemia, hypernatraemia, weight decreased ' Fatal cases have been reported in completed or ongoing clinical studies. ³ 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 abnormalines' below. 'Life-threatening cases have been reported in completed or origing clinical studies.

"The frequency of adverse reactions in the cardiac disorders system organ class regardless of causality was higher in the nivolumab group than in the chemotherapy group in post-CTLA4/BRAF
inhibitor metastatic melanoma population. Incidence rates per 100 person-years of exposure were 9.3 vs. 0; serious cardiac events were reported by 4.9% patients in the nivolumab group vs. 0 in the investigator's choice group. The frequency of cardiac adverse reactions was lower in the nivolumab group than in the dacarbazine group in the metastatic melanoma without prior treatment population. All were considered not related to nivolumab by investigators except arrhythmia (atrial fibrillation, tachycardia and ventricular arrhythmia). Pash is a composite term which includes maculopapular rash, rash generalized, rash erythematous, rash pruritic, rash follicular, rash macular, rash morbilliform, rash papular, rash pustular, rash papular, rash vesicular, rash generalised, exfoliative rash, dermatitis, dermatitis acoreiform, dermatitis allergic, dermatitis atopic, dermatitis bullous, dermatitis exfoliative, dermatitis sposansiform, drug eruption and pemphigoid. '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, bone pain, musculoskeletal chest pain, musculoskeletal discomfort, myalgia, myalgia intercostal, neck pain, pain in extremity, and spinal pain. Post-marketing event (also see section 4.4). Reported in clinical studies and in the post-marketing setting, i Pericardial discorders is a composite term which includes pericardist, pericardial effusion, cardiac tamponade, and Diessler's syndrome. I Anaemia is a composite term which includes, among other causes, haemolytic anaemia and autoimmune anaemia, haemoglobin decreased, iron deficiency anaemia and Dressler's syndrome. *Anaemia is a composite term which includes, among other causes, haemolytic anaemia and autoimmune anaemia, haemoglobin decreased, includes adrenal insufficiency and secondary adrenocortical insufficiency. *Includes enterphalitis. And limbic encephalitis. And under generalized oederna, and end blood cell count decreased. Includes adrenal insufficiency and secondary adrenocortical insufficiency. *Includes encephalitis and limbic encephalitis. Includes generalized oederna, oederna peripheral peripheral swelling and swelling. *Nicolumbal in combination in combination with ipilimumah series (and a 2 summon (and 2 summ appetite (14%), pyreax (14%), vontuning (11%), pyreprinyousin (11%). The majority of adverse reactions were multo to moderate (Loade of 2), among time platents treated with involunation with juliminumab implicit possible. Among the 382 patients in this group who continued treatment in the single-agent phase, 144 (38%) experienced at least one Grade 3 or 4 adverse reaction during the single-agent phase. Total continued to the summary of adverse reactions reported in the pooled dataset for patients reached with involunabl 1 mg/kg in combination with juliminumab 3 mg/kg in continuation with juliminumab img/kg (in cash), pare persented his SP. These reactions are presented by system organic acts and by frequency. Frequencies are defined as very common (2 1/10); common (2 1/100 to < 1/10); uncommon (2 1/1000 to < 1/100); rare (2 1/10,000 to < 1/10,00); very rare (< 1/10,000), not known (cannot be treated with information and progress of the combination with pillimumab 1 mg/kg; yei — sar/j are presented in face. Printing a cell write agreement by spean unger located uniform cannot be estimated from available post-marketing data). Within each frequency grouping, adverse reactions are presented in the order of decreasing seriousness. Table 2. Adverse. nearctions are presented in the order of decreasing seriousness. Table 2. Adverse. nearctions are presented in the order of decreasing seriousness. Table 2. Adverse. nearctions are involumable in combination with pillimumab 1 mg/kg; "neumonia, upper respiratory tract infection, conjunctivities Uncommon Nivolumabl mg/kg in combination with pillimumable mg/kg; pieumonia with pillimumable mg/ with ipilimumab 1 mg/kg**. headache, peripheral neuropathy, dizziness Uncommon Nivolumab 1 mg/kg in combination with ipilimumab 3 mg/kg. Guillain-Barré syndrome, polyneuropathy, perioded and abducers nerve paresis), encephaliatis Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg* ophyleuropathy, auditorimume neuropathy (including facial and abducers nerve paresis), encephaliatis Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg*. Including paresis polyneuropathy, auditorimume neuropathy (including facial and abducers nerve paresis), encephaliatis Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg*. The sure of the ig in combination with piliniumabal mg/kg** colifis, stomatis, pancreatitis, adodiniarja pain, constipation, dry mouth fulcromann Nivolumab 1 mg/kg** (settistial perforation*; esstriis, duodenitis Nivolumaba 3 mg/kg in combination with piliniumabal mg/kg**, repatitis Skin and subcutaneous Sissue disonomin Nivolumabal mg/kg* (settistial perforation*; esstriis, duodenitis Nivolumaba 3 mg/kg in combination with piliniumabal mg/kg**, repatitis Skin and subcutaneous Sissue disonomen Nivolumabal mg/kg* (settistial perforation*) and pkg in combination with piliniumabal mg/kg**, repatitis Skin and subcutaneous Sissue disonomen Nivolumabal mg/kg** (settistial perforation*) and pkg in combination with piliniumabal mg/kg**, repatitis Nivolumabal Ingidopaenia, leucopoenia, neutropaenia, thromborytopaenia, anaemia*, hypocalcaemia, hyperkalaemia, hyporkaleemia, hypomatraemia Nivolumab 3 mg/kg in combination with billimiumnab 1 mg/kg in combination with billimiumnab for the first 4 doses then followed by nivolumab monotherapy in melanoma. "rivolumnab in combination with pillimiumnab for the first 4 doses then followed by nivolumab monotherapy in melanoma." rivolumnab in combination with pillimiumnab for the first 4 doses then followed by nivolumab monotherapy in melanoma. "rivolumnab in combination with pillimiumnab for the first 4 doses then followed by nivolumnab monotherapy in mcL "Fatal cases have been reported in completed or ongoing clinical studies." *The requestion studies of the first 4 doses then followed by nivolumnab monotherapy in mcL "Fatal cases have been expected in completed or ongoing clinical studies." *The requestion studies of the first 4 doses then followed by nivolumnab mg/kg that billimit mg/kg mg/ melanoma population. Incidence rates per 100 person-years of exposure were 93 xs. 0; serious cardiac events were reported by 4.9% patients the involumab group xs. 0 in the investigator's choice group. The frequency of cardiac adverse reactions was lower in the nivolumab group than in the dacarbazine group in the metastatic melanoma without prior treatment population. All were considered not related to nivolumab by investigators except arrhythmia (atrial fibrillation, tachycardia and ventricular arrhythmia). * Rash is a composite term which includes maculopapular rash, rash erythematous, rash puritic, rash folioular, rash macular, rash morbilliform, rash papular, rash pustular, rash papulosquamous, rash vesiolar, rash generalised exfoliative rash, dermatitis, dermatitis aceriform, dermatitis allergic, dermatitis atopic, dermatitis bullous, dermatitis exfoliative, dermatitis sporiasiform, drug eruption and pemphigoid. Reported also in studies outside the pooled dataset. The frequency is based on the program-vide eyopsure. If Wusculoselbelal pain is a composite term which includes back pain, bone pain, musculoskeletal chest pain, musculoskeletal discorders is a composite term which includes back pain, bone pain, musculoskeletal chest pain, musculoskeletal discorders is a composite term which includes and pain. The post-marketing event (also see section 4.4) Reported in clinical studies and in the post-marketing setting; J Pericardial discorders is a composite term which includes pericardial effusion, cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion, cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion, cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion, cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion cardiac tamponade, and Dressler's syndrome. *Anaemia is a composite term which includes pericardial effusion cardiac tamponade, and Dressler's term which includes, among other causes, haemolytic anaemia and autoimmune anaemia. Ninolumab in combination with ipilimumab and chemotherapy (see section 4.2) summony of the sofety profile When nivolumab is administered in combination, refer to the SmPC for the respective combination therapy components prior to initiation of treatment. 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 = 388), with a minimum follow-up of 6.5 months, the most frequent souting every 3 veexs in commandation with injunitional may be every 6 veexs and 2 cycles or censorized by in 50.1. In = 3-50, with a minimum tously up or to 2, and advess reactions were fatigue (36%), haussea (26%), and (26%), diarhose a (20%), puritus (18%), decreased appetite (16%), hypothyroidism (17%), and vomiting (13%), advess reactions were mild to moderate (Grade 1 or 2). Median duration of therapy was 6.1 months (95% C1.4.93, 7.06) for nivolumab in combination with ipilimiumab and chemotherapy and 2.4 months (95% C1.2.30, 2.83) for chemotherapy, biobulated summary of otherse reactions Adverse reactions reported in the dataset for patients treated with inviduous 360 mg every 3 weeks 1 in combination with lipilimiumab 1 mg/g every 6 weeks and 2 cycles of demotherapy in MSLC (1 — 350 kg are presented in 86.1 These reactions are presented by system organ class and by frequency. Frequencies are defined as: very common (2 1/10); common (2 1/10); uncommon (2 1/10,000 to < 1/100); rare (5 1/10,000 to 5 1/1000); very rare (5 1/10,000), 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 joilinumab and chemotherapy Infections and infestations Common conjunctivitis, pneumonia, respiratory tract infection Blood and lymphatic system disorders Common febrile neutropaenia Uncommon eosinophilia Immune system disorders Common infusion-related reaction, hypersensitivity Endocrine disorders Very common hypothyroidism Common hyperthyroidism, adrenal insufficiency, hypophysits, thyroiditis Uncommon hypopitultarism, hypoparathyroidism Metabolism and nutrition disorders Very common decreased appetite Common dehydration, hypoalbunaemia, hypophosphataemia Nervous system disorders Common peripheral neuropathy, dizziness Uncommon polyneuropathy,

autoimmune neuropathy (including facial and abducens nerve paresis), encephalitis Eye disorders Common dry eye Uncommon blurred vision, episcleritis Cardiac disorders Uncommon tachycardia, atrial fibrillation, bradycardia Vascular disorders Uncommon hypertension Respiratory, thoracic and mediastinal disorders Common pneumonitis, dyspnosa, cough Uncommon pleural effusion Gastrointestinal disorders Very common nausea, diarrhoea, vomiting Common constipation, stomatitis, abdominal pain, colitis, dry mouth, pancreatitis Hepatobiliary disorders Common hepatitis Skin and subcutaneous tissue disorders Very common rash², pruritus Common alopecia, dry skin, erythema, urticaria Uncommon psoriasis, Stevens-Johnson syndrome, vitilgo Not known lichen scleosus, other lichen disorders Musculoskeletal and connective tissue disorders Common musculoskeletal painb, arthralgia, arthritis Uncommon muscular weakness, muscle spasms, polymyalgia rheumatica Renal and urinary disorders Common renal failure (including acute kidney injury) Uncommon nephritis General disorders and administration site conditions Very common fatigue Common pyrexia, oedema (including peripheral oedema) Uncommon chills, chest pain investigations Very common anaemia^{cd}, thrombocytopaenia^c, leucopoenia^c, Imphopaenia', neutropaenia', increased allaline phophatases', increased transaminases', increased creatinine', increased amylase', increased lipase', hypokalaemia', hypomapnesaemia' inponataremia' Common increased total bilirubin', increased thyriod stimulating hormone Uncommon increased gamma-glutamyltransferase. 'Rash is a composite term which includes maculopapular rash, rash erythematous, rash pruntic, rash macular, rash mothiliform, rash papular, rash generalised, dermatitis, alematitis acreform, dermatitis allerjci, dermatitis atopic, dermatitis bullous, and drug eruption. *Musculoskeletal pain is a composite term which includes back pain, bone pain, musculoskeletal chest pain, myalgia, neck pain, pain in extremity, and spinal pain. *Frequencies of laboratory terms reflect the proportion of patients who experienced a worsening from baseline in laboratory measurements. *Anaemia is a composite term which includes into fieldering vanemia and haemoglobin decreased. Wodumab in combination with cabozantinib (see section 4.2) Summory of the sofety profile (When involumab is administered 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 cabozantinib SmPC_RCC in 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 reactions (≥ 10%) were diarrhoea (64.7%), fatigue (51.3%), palmar-plantar erythrodysaesthesia syndrome (40.0%), stomatitis (38.8%), musculoskeletal pain (37.5%), hypertension (37.2%), rash (36.3%), hypothyroidism (35.6%), decreased appetite (30.3%), nausea (28.8%), abdominal pain (25.0%), disgressia (23.8%), abdominal pain (25.0%), disgressia (25.0%), disgressia (25.0%), disgressia (25.0%), disgressia (25.0%), disgressi induced and the second of the 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 (≥ 1/100, common (≥ 1/100) to < 1/100) and thrown (≥ 1/100 to < 1/100) to < 1/100); uncommon (≥ 1/1,000 to < 1/100), uncommon (≥ 1/1,000 to < 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 9. Adverse reactions with nivolumab in combination with cabozantinib Infections and infectations Very Common upper respiratory tract infection Common pneumonia; Blood and hymphatic system disorders Common eosinophilia; Immune system disorders Common hypersensitivity (including anaphlyactic reaction) Uncommon infusion related hypersensitivity reaction; Endocrine disorders Very common hypothyroidsm, hyperthyroidsm Common adrenal insufficiency Uncommon hypothysitis, thyroiditis, Metabolism and nutrition disorders Very common decreased appetite Common dehydration: Nervous system disorders Very common dyseeusia, dizziness, headache Common peripheral neuropathy Uncommon encephalitis autoimmune, Guillain-Ban'e syndrome, myasthenic syndrome; Ear and labyrinth disorders Common timitus; Eye disorders Common dry eye, blurred vision Uncommon uveitis; Cardiac disorders Common atrial fibrillation, tachycardia Uncommon myocarditis; Vascular disorders Very common hypertension Common thrombosis; Respiratory, thoracic and mediastinal disorders Very common dysphonia, dyspnosa, cough Common pneumonitis, pulmonary embolism, pleural effusion, epistaxis, Gastrointestinal disorders Very common diarnhoea, vomiting, nausea, constipation, stomatitis, abdominal pain, dyspepsia Common colitis, gastritis, oral pain, dry mouth, haemorrhoids Uncommon pancreatitis, small intestine perforation³, glossodynia; Hepatobiliary disorders Common hepatitis, Skin and subcutaneous tissue disorders Very common palmar-plantar erythrodysaesthesia syndrome, rashf; pruritus Common alopecia, dry skin, erythema, hair colour change Uncommon psoriasis, urticaria Not known lichen sclerosus, other lichen disorders, Musculoskeletal and connective tissue disorders Very common musculoskeletal paini*, arthralgia, muscle spasm Common arthritis Uncommon myopathy, osteonecosis of the jaw, fistula; Renal and urinary disorders Very common proteinuria Common renal failure, acute kidney injury Uncommon nephritis: General disorders and administration site conditions Very common fatigue, pyrexia, oedema Common pain, chest pain. Investigations Very common anaemia, in hombocytopaenia, leucopoenia, lymphopaenia, neutropaenia, increased alkaline phosphatase, increased AST, increased total bilirubin, increased creatinine, increased amylase, increased Incr hyperglycaemia, hyperkalaemia, hypermagnesaemia, hypematraemia, weight decreased Common blood cholesterol increased, hypertriplycericaemia Adverse reaction frequencies presented in Table 9 may not be fully attributable to nivolumab alone but may contain contributions from the underlying disease or from medicinal product used in combination. *Thrombosis is a composite term which includes portal vein thrombosis, pulmonary vein thrombosis, pulmonary thrombosis, actic thrombosis, arterial thrombosis, deep vein thrombosis, pelvic vein thrombosis, vein a cava thrombosis, venous thrombosis, limb venous thrombosis ¹Fatal cases have been reported ²Rach is a composite term which includes dematitis, dematitis arneitom, dematitis allergic, dematitis atopic, dermatitis bullous, ecfoliative rash, rash erythematous, rash follicular, rash macular, rash maculo-papular, rash papular, rash mobiliform, rash pruritir, and drug eruption ⁴ Musculoskeletal pain is a composite term which includes back pain, bone pain, musculoskeletal chest pain, musculoskeletal discomfort, myalgia, neck pain, pain in extremity, spinal pain ⁴ Frequencies of Faboratory terms reflect the proportion of patients who experienced a worsening from baseline in laboratory measurements (with the exception of weight decreased, blood cholesterol increased, and hypertriglyceridaemia). See "Description of selected adverse reactions; laboratory abnormalities" below <u>Description of selected adverse reactions</u> Wivolumab or nivolumab in combination with other therapeutic agents is associated with immune-related adverse reactions. With appropriate medical therapy, immune-related adverse reactions with other 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. Table 10 and 11 present the percentage for immune-related adverse reactions who were permanently discontinued from treatment by dosing regimen. Additionally, for patients who experienced an event, Table 10 and 11 present the percentage of 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 regulary terms are invasories to such as the control of the combination with joilinumab 3 mg/kg or 240 mg monotherapy % : 13 Nivolumab 1 mg/kg or combination with joilinumab 3 mg/kg in melanoma %: 2.0 Nivolumab 3 mg/kg or 240 mg monotherapy % : 13 Nivolumab 1 mg/kg in combination with joilinumab 3 mg/kg in melanoma %: 2.0 Nivolumab 1 mg/kg or 240 mg monotherapy % : 1.0 Nivolumab 1 mg/kg in combination with joilinumab 3 mg/kg in combination with joilinumab 3 mg/kg or 240 mg monotherapy % : 1.0 Nivolumab 3 mg/kg or 240 mg monotherapy % : 0.0 Nivolumab 1 mg/kg in combination with joilinumab 3 mg/kg or 240 mg monotherapy % : 0.0 Nivolumab 1 mg/kg in combination with joilinumab 3 mg/kg or 240 mg monotherapy % : 0.0 Nivolumab 1 mg/kg in combination with joilinumab 3 mg/kg or 240 mg monotherapy % : 0.0 Nivolumab 3 mg/kg or 240 mg monotherapy Endocrinopathies Nivolumab 3 mg/kg or 240 mg monorbearup % - 0.2 Nivolumab 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 % - 2.9 Skin Nivolumab 3 mg/kg or 240 mg monorbearup % - 0.4 Nivolumab 1 mg/kg in combination with ipilimumab 1 mg/kg in RCC % - 2.9 Skin Nivolumab 3 mg/kg or 240 mg monorbearup % - 0.4 Nivolumab 3 mg/kg in combination with ipilimumab 1 mg/kg in RCC % - 15 Hypersensitivity/Infusion reaction Nivolumab 3 mg/kg or 240 mg monorbearup % - 0.2 Nivolumab 1 mg/kg in combination with ipilimumab 1 mg/kg in RCC % - 15 Hypersensitivity/Infusion reaction Nivolumab 3 mg/kg or 240 mg monorbearup % - 0.2 Nivolumab 1 mg/kg in combination with ipilimumab 1 mg/kg in and pick in combination with pilinumab 1 mg/kg in RCC % 15 Mypersensitivity/Influsion reaction Nivolumab 3 mg/kg in combination with pilinumab 3 mg/kg in combination with pilinumab 3 mg/kg in combination with pilinumab 3 mg/kg in reaction RCC % 15 Mypersensitivity/Influsion reaction Nivolumab 3 mg/kg in RCC % 10 Nivolumab 3 mg/kg in combination with pilinumab 1 mg/kg in RCC % 10 Immune-related adverse reaction requiring high-dose corticosteroids* of the personal state of the presentation of the pilinumab 3 mg/kg in reaction above 1 mg/kg in combination with pilinumab 3 mg/kg in combination with pilinumab 1 mg/kg in combination with pilinumab 1 mg/kg in CCC % 25 Mypolinumab 1 mg/kg in CCC % 27 Endocrinopathies Nivolumab 3 mg/kg or 240 mg monotherapy % 10 Nivolumab 3 mg/kg or 240 mg monotherapy % 10 Nivolumab 1 mg/kg in CCC % 27 Endocrinopathies Nivolumab 3 mg/kg or 240 mg monotherapy % 10 Nivolumab 1 mg/kg in CCC % 27 Endocrinopathies Nivolumab 3 mg/kg or 240 mg monotherapy % 10 Nivolumab 1 mg/kg in CCC % 27 Endocrinopathies Nivolumab 3 mg/kg or 240 mg monotherapy % 10 Nivolumab 1 mg/kg in CCC % 27 Endocrinopathies Nivolumab 3 mg/kg or 240 mg monotherapy % 10 Nivolumab 1 mg/kg in CCC % 27 Endocrinopathies Nivolumab 3 mg/kg or 240 mg monotherapy % 10 Nivolumab 1 mg/kg in CCC % 27 Endocrinopathies Nivolumab 3 mg/kg or 240 mg monotherapy % 10 Nivolumab 1 mg/kg in CCC % 27 Endocrinopathies Nivolumab 3 mg/kg or 240 mg monotherapy % 10 Nivolumab 20 mg/kg in CCC % 10 Nivolumab 20 mg/kg in CCC % 27 Endocrinopathies Nivolumab 3 mg/kg or 240 mg monotherapy % 10 Nivolumab 20 mg/kg in CCC % 27 Endocrinopathies Nivolumab 20 mg/kg in CCC % 2 1 mg/lg and chemotherapy in NSCLC %: 2.0 Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %: 1.3 Skin Nivolumab 360 mg in combination with ipilimumab 1 mg/lg and chemotherapy in NSCLC %: 1.1 Nivolumab 340 mg in combination with ipilimumab 40 mg in RCC %: 2.2 Hypersensitivity/Infusion reaction Nivolumab 360 mg in combination with ipilimumab 1 mg/kg and dnemotherapy in NSCLE %: 0.6 Nivolumab 240 mg in combination with cabocantinib 40 mg in RCC %: 0 m/mmune related observe reaction requiring high dose controsteroids²⁻¹ Pneumonitis Nivolumab 360 mg in combination with pillimumab 1 mg/kg and chemotherapy in NSCLC %: 68 Nivolumab 240 mg in combination with cabocantinib 40 mg in RCC %: 56 Colitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 58 Lepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in combination with cabocantinib 40 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in RCC %: 88 Hepatitis Nivolumab 360 mg in RCC %: 88 Hepatit 360 mg in combination with ipilimumab 1 mg/kg and chemotherapy in NSCLC %. 29 Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %. 23 Nephritis and renal dysfunction
Nivolumab 360 mg in combination with ipilimumab 1 mg/kg and chemotherapy in NSCLC %. 24 Nivolumab 240 mg in combination with cabozantinib 40 mg in RCC %. 9 Endocrinopathies
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 360 mg in combination with ipilimumab 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 %: 0 °at least 40 mg daily prednisone equivalents a frequency is based on the number of patients who experienced the immune related adverse reaction Immune-related aneumonitis in patients treated with nivolumals monotherapy, the incidence of pneumonitis, including interstital lung disease and lung infiltration, was 3.2% (105/3239). The majority of cases were Grade 1 or 2 in severity reported in 0.7% (24/3239) and 1.8% (57/3239) of patients respectively. Grade 3 and 4 cases were reported in 0.5% (21/3239) and 0.11% (1/3239) of patients respectively. Grade 5 cases were reported in < The (2739) and to 40 (37) patients of patients (and the patients) represents the representation of the (2739) and the (3749) and (37 including interstitial using undexes, was 7.6% (35)4940, Undex C, Lidue S, and Undex 4 cases were repursed in 4.7% of 17490, 1,10% (5)4940, and U.Z. to (14490) a placetisms, respectively. Order the Code 2 premovations is cases worsen down of 11 days with a facilitation three to resolution of 6.1 weeks (cages 0.3-35.)). In patients treated with nivolumab 3 mg/kg in combination with injimumab 1 mg/kg in RCC, the incidence of pneumonitis including interstitial using disease was 6.2% (34/547). Grade 2 and Carde 3 cases were reported in 3.1% (17/547) and 1.1% (6/547), of patients, respectively. Mediant inter to oncet was 2.6 months (range 0.25-20.6). Resolution concurred in 31 patients (19.7%) with a median time to resolution of 61 weeks (range 0.76-25). In patients treated with involumab 360 mg every 3 weeks in combination with injimumab 1 mg/kg every 6 weeks and cherotherapy in NSCL, the incidence of pneumonitis including interstitial languages was 5.3% (19/358). Crade 2. Grade 3, and Grade 4 cases were reported in 2.7% (8/358), 11% (4/358), and 0.6% (2/358) of patients, respectively, Median time to onset was 18.1 weeks (range: 0.6-52.4). Resolution occurred in 14 patients (74%) with a median time to resolution of 4.3 weeks (range: 0.7-279°). In patients treated with nivolumab 240 mg in combination with cabozantinib 40 mg in RCC the incidence of pneumonitis including interstitial lung disease was 5.6% (18/300). 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 14 patients (77.8%) with a median time to resolution of 7.5 weeks (range: 2.1-60.7+ weeks). Immune-related coils's in patients treated with nivolumab monotherapy, the incidence of diarrhoea, colitis, or frequent bowel movements was 14.7% (475/3239). The majority of cases were Grade 1 or 2 in severity reported in 9.4% (304/3239) and 3.7% (119/3239) of natients respectively. Grade 3 and 4 cases were reported in 1.6% (51/3239) and <0.1% (1/3239) of natients respectively. Median time to onset was 1.8 months (range 0.0 2.6.6). Resolution occurred in 420 patients (89.0%) with a median time to resolution of 2.3 weeks (range 0.1124.4). In patients treated with involumeab I mg/kg in combination with ipilimumab 3 mg/kg in melanoma, the incidence of diarrhoea or collis was 46.7% (209/448). Grade 2, Grade 3, and Grade 4 cases were reported in 3.6% (61/448), 15.8% Communication with primitives a large for measurement of the control was 40 of 24 of every on weeks and unenducted puri most.c., the includence of units was 2.2-3% (o.07.35), chadde 2.chade 2.chade 3.4 and oracle 2.chade 4.4 and oracle 2.chade 5.4 and 0.chade 5.4 a was 21 months (range: 0.0 27,6). Resolution occurred in 717 patients (78,0%) with a median time to onset was 15 months (range: 0.0 37,6). As 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 15 months (range: 0.0-30.1). Resolution occurred in 724 patients (93.9%) with a median time to resolution of 5.1 neeks (range: 0.1-106.9). In patients treated with nivolumab 3 mg/lg in combination with ipilimumb 1 mg/lg in Resolution of 5.1 neeks (range: 0.1-106.9). In patients treated with nivolumab 3 mg/lg in combination with ipilimumb 1 mg/lg in Resolution of 5.1 neeks (range: 0.1-26.8). Resolution occurred in 86 patients (85.1%) with a median time to resolution of 6.1 weeks (range: 0.1-82.9). 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 3.7% (11/358), 3.4% (12/358), and 1.1% (4/358) 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 combination with cabozantinib 40 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) weeks). Resolution occurred in 101 patients (75.9%) with a median time to resolution of 9 & weeks (range; 0.1-107) weeks). Immune-related neghnits and rend plyfunction in patients treated with nivolumab monotherapy, the incidence of nephritis or renal dysfunction was 2.5% (80/3239). The majority of cases were Grade 1 or 2 in severity reported in 1. 4% (45/3239) and 0.7% (22/3239) of patients respectively. Grade 3 and 4 cases were reported in 0.4% (12/3239) and <0.7% (1/2329) of patients, respectively. Median time to onset was 2.6 months (range: 0.0 18.2). Resolution occurred in 49 patients (63.6%) with a median time to resolution of 12.1 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 51% (23/448). Grade 2, Grade 3, and Grade 4 cases were reported in 1.6% (1/448), and 0.7% (3/448) of patients, respectively. Median time to onset was 2.5 months (range: 0.5-718). Resolution occurred in 21 patients (913%) 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 ipilimumab 1 mg/kg in RCC, the incidence of nephritis or renal dysfunction was 8.8% (48/547). Grade 2, Grade 3, and Grade 4 cases were reported in 4.4% (24/547), 0.7% (4/547), and 0.5% (3/547) of patients, respectively. Median time to onset was 2.1 months (range; 0.0-16.1). Resolution occurred in 37 patients (77.9%) with a median time to resolution of 12 patients (78.9%) with a median time to resolution of 12 patients (78.9%) with a median time to resolution of 12 patients (78.9%). Which is not to resolution of 12 patients (78.9%), with a combination with ipilimumab 1 mg/kg every 6 weeks and chemotherapy in NSLLC, the incidence of nephritis or renal dysfunction was 7% (25.758). Grade 2, Grade 3, and Grade 4 cases were reported in 2.2% (8/358), 17% (6/358), and 0.6 (2/358) of patients, respectively. Median time to onset was 10.6 weeks (range; 0.1-51.3). Resolution orcurred in 14 patients (56%) with a reported in 22% (8/358), 17% (6/358), and 0.6 (1/358) of patients, respectively. Median time to onset was 10.6 weels (range: 0.11-5.1). Resolution occurred in 14 patients (55%) with a median time to southout on 6.3 weeks (range: 0.11-6.12). The patients betaed with involumab 240 mg in roomination with chaobaratinib 40 mg in RCL (he 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 Crade 3 cases were reported in 3.4% (11/320), and 1.3% (4/220) of patients, respectively. Median time to onset was 14.2 weeks (range: 2.1-87.1 weeks). Resolution occurred in 18 patients (51/4) with a median time to resolution of 10.1 weeks (range: 0.6-9.0) weeks). Immune-related undoringourbies in patients treated with involumab mountednessy the incidence of thyroid disorders, wind to resolution in comparison of thyroid disorders were reported in 0.6% (21/329). The majority of cases were Crade 1 or 2 in severity reported in 5.0% (16/3239) and 6.6% (21/4239) of patients, respectively. Crade 3 and 4 thyroid disorders were reported in 0.6% (21/329) and 0.6% (17/229) of patients, respectively. Grade 3 and 4 thyroid disorders were reported in 0.6% (21/329) and 0.6% (21/329) of patients, respectively. Grade 3 and 4 strong of crade 1 strong of cases were Crade 1 or 3 in severity reported in 5.0% (16/3239) and 6.6% (21/42) and 1 Crade 3, and 1 Crade 3 including lymphocytic hypophysisis occurred in 5.8% (26/448) and 2.9% (19/448) of patients, respectively, Grade 2, Grade 3, and Grade 4 diabetes mellifus and C.9% (19/48) of patients, respectively, Grade 2, Grade 3, and Grade 4 diabetes mellifus and Grade 4 diabetes leveling in level on the consecution of the control of endocrinopathies was 1.9 months (range: 0.0-28.1). Resolution occurred in 64 patients (45.4%). Time to resolution ranged from 0.4 to 155.4' weeks. In patients treated with nivolumab 3 mg/kg in combination with pillimumab 1 mg/kg in RCC, the incidence of thyroid disorders was 27.2% (149/547). Grade 2 and Grade 3 thyroid disorders were reported in 15.7% (86/547) and 1.3% (7/547) of patients, respectively. Hypophysitis occurred in 4.0% (22/547) of patients, Grade 2, Grade 3, and Grade 4 cases were reported in 0.5% (3/547), 2.4% (13/547), and 0.4% (2/547) opatients, respectively. Grade 2 Importuitarism occurred in 0.4% (2/547) of patients. Grade 2, and Grade 4 adminal insufficiency (including secondary adminosortical insufficiency) cocurred in 2.9% (16/547), 2.2% (12/547) and 0.4% (2/547) of patients, respectively. Diabetes mellitus including type 1 diabetes mellitus (3 Grade 2, 2 Grade 3, and 3 Grade 4), and diabetic ketoacidosis (1 Grade 4) were reported. Median time to onset of these endocrinopathies was 1.9 months (range: 0.0-22.3). Resolution occurred in 76 patients (42.7%). Time to resolution ranged from 0.4 to 180.3' weeks. In patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 6 weeks and chemotherapy in NSCLC, the incidence of thyroid disorders was 24% (86/358). Grade 2 and Grade 3 thyroid disorders were reported in 12.3% (44/358) and 0.3% (1/358) of patients, respectively. Hypophysitis occurred in 1.4% (5/358) of patients. Grade 2 and Grade 3 cases were reported in 0.5% (2/358) and 0.6% (3/358) of patients. respectively, Grade 2 hypoprituitarism occurred in 0.3% (1/358) of patients. Grade 2 and Grade 3 adrenal insufficiency occurred in 1.7% (6/358) and 1.4% (5/358) of patients, respectively. Diabetes mellitus including type 1 diabetes mellitus was not reported. Median time to onset of these endocrinopathies was 12.1 weeks (range: 1.9-58.3). Resolution occurred in 3.0 patients (35.3%). Time to resolution ranged from 1.4 to 72.4° weeks. In patients treated with involumab 24 dung in combination with clausation with office the control of occurred in 4.% (15)2420 or patients. Leade 2 and Lorder's advantage for the search and immediately cases were reported in 2.2% (17)240 and 1.5% (15)240) or patients, respectively, rebeath time to direct or these endocrinogaths was 123 weeks (page 2.0.489) weeks. Instrumer calculate in capacity and cases were Grade 1 in severity reported in 2.1% (17)73239) of patients respectively. Median time to onset or and Grade 3 cases were reported 5.7% (1647,239) and 1.3% (12)7339) of patients respectively. Prediction the severity reported in 2.1% (17)73239) of patients. Grade 2 and Grade 3 cases were reported 5.7% (1647,239) and 1.3% (12)7339) of patients respectively. Prediction time to onset or was 1.4 months (page 0.0.275). In patients treated with involumbal Time (17)73239 of patients. Or patients the second in 582 patients (15,7%) with a median time to resolution or curred. In patients treated with involumbal Time (17)8 with a median time to resolution or curred with involumbal Time (17)8 with a median of the course of the cases were reported in 20.3% (19)1448) 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, the incidence of rash was 48.8% (267/547). Grade 2 and Grade 3 cases were reported in 13.7% (75/547) and 3.7% (20/547) of patients, incumulation with imitation 1 rings right in RCL. Use includes or in a day 48.0% (267) 5471, I cale 22 at total sets 2 abeds Wet reputted in 13.7% (375) 471, Jan 12, most (267) 5471, Jan 12, respectively. Median time to resolution 115. Weeks (range; 0.11-616.7°). In patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 6 weeks and chemotherapy in NSCLC, the incidence of rash was 37.7% (135,758), Crade 2, Grade 3, and Grade 4 cases were reported in 11.5% (41758), at 2% (14758), and 0.3% (1758) of patients, respectively. Median time to onset was 3.3 weeks (range; 0.1-831). Resolution occurred in 19.5% (41758), and 0.3% (1758) of patients, respectively. Median time to onset was 3.3 weeks (range; 0.1-831). Resolution occurred in 19.5% (41758), and 0.3% (1758) of patients, respectively. Median time to onset was 6.1% (41758), and 10.5% (fatal outcome have been observed (see sections 4.2 and 4.4). (in 50 or reactions in patients treated with involumab monothrapy, the incidence of hypersensitivity/infusion reactions was 4.1% (134/3239), including 6 Grade 3 and 3 Grade 4 cases. In patients treated with nivolumab 1 mg/kg in combination with juilimumab 3 mg/kg, 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 juilimumab In g/l/sq the inclinates of hypersensitivity/infusion reactions was 4.0% (21/54%); all were Carde for 2 in seventy, because Logist and the lightest breated with nivolumab 30 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 6 weeks and chemotherapy in NSCLC, the incidence of hypersensitivity/infusion reactions was 4.7% (17/58). 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 combination with cabozantinib 40 mg in RCC, the incidence of hypersensitivity/Influsion reactions was 2.5% (8/320). All 8 patients were Gade 1 or 2 in severity. Grade 2 cases were reported in 0.3% (1/320) of patients. Complications of allogeneic HSCT in classical Hodgkin lymphomo Rapid onset of GVHD has been reported with nivolumab use before and after allogeneic HSCT (see section 4.4). In 99 evaluated patients from two cHL studies who underwent alligeneic HSCT after discontinuing involumab monotherapy, dead 3 or 4 acute CMHD was reported in 13/49 patients (26.5%). Hyperacute CWHD, defined as acute CWHD occurring within 14 days after stem cell infusion, was reported in three 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, with three patients responding to steroids. Hepatic veno-occlusive disease occurred in one patient, who died of CVMD and multi-organ failure. Nine of 49 patients (18 4%) died from complications of allogeneic HSCT after involumab. The 49 patients had a median follow-up from subsequent allogeneic HSCT of 5.6 months (range. 0-19 months). Elevated liver enzymes when rivolumab is combined with cobocondinib in RCC In a clinical study of previously untreated patients with RCC receiving nivolumab in combination with cabocantinib, a higher incidence of Grades 3 and 4 ALT increased (10.1%) and AST increased (8.2%) were interesting between minimal terror manufacture companies of the properties of the pr varies or war load, receive, in mining use or patients in un cause za increase and in a part in with both (m-25), recurrence of Garde 22 increases dal To AST was observed in 3 patients receiving (DPMV). 4 patients receiving caboxanitini, and 8 patients received and caboxantinial but on the cabox and calculations. Discours of processed and a contract of the properties of the properties of the processed and a contract of the properties of the properties of the processed and a contract of the properties of the processed and the phosphatase, 2.7% for increased AST, 24% leucopoenia, 6.7% for lymphopaenia, 0.7% for neutropaenia, 4.3% for increased alkaline phosphatase, 12.4% for increased AST, 15.3% for increased ALT, 1.2% for increased billabling 2.4% for increased creatinine, 5.3% for hypergylcaenia, 8.7% for increased amylase, 19.5% for increased lipase, 1.2% for hypocalcaenia, 0.2% each for hypermaterial and hypercalcaenia, 0.5% for hypermaterial and hypercalcaenia, 0.5% for hypermaterial and symposial and 19.5% for hypercalcaenia, 0.3% for hypermaterial and hypercalcaenia, 0.6% for hypercalcaenia, 0.6% for hypermaterial and hypercalcaenia, 0.6% for hypercalcaenia, 0.6% for hypermaterial and hypercaenia, 0.6% for hypermaterial and hypercaenia, 0.6% for hypermaterial and hypercaenia, 0.6% for hypermaterial and 1 mg/kg in RCC, the proportion of patients who experienced a worsening from baseline to a Grade 3 or 4 laboratory abnormality was as follows: 3.0% for anaemia (all Grade 3), 0.7% for thrombocytopaenia, 0.6% for leucopeenia, 5.1% for lymphopaenia, 1.1% for neutropaenia, 2.0% for increased ALT, 6.5% for increased ALT, increased total bilinubin, 21% for increased creatinine, 72% for hypergycaemia, 1.8% for hypocylcaemia, 12% for increased amylase, 20.1% for increased injase, 0.4% for hypocalaemia, 1.3% for hyporalaemia, 2.4% for hypocalaemia, 2.4% for hyporalaemia, 1.1% for hypomagnesaemia, 0.4% for hypomagnesaemia 1.9% for hyporalaemia, and 9.9% for hypomatraemia. In patients treated with nivolumab 360 mg every 3 weeks in combination with ipilimumab 1 mg/kg every 6 weeks and chemotherapy in NSLIC, 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 neutropaenia, 1.2% for increased alkaline phosphatase, 3.5% for increased AST, 4.3% for increased ALT, 0% for increased total bilinubin, 1.2% for increased careful increased incr 3.5% for hypokalaemia, and 10.7% for hyponatraemia. In patients treated with nivolumab 240 mg in combination with cabocarotinib 40 mg in RCC, the proportion of patients who experienced a worsening from baseline to a Grade 3 or 4 laboratory abnormality was as follows: 3.5% for anaemia (all Grade 3), 0.3% for thrombocytopaemia, 0.3% for leucopoemia, 7.5% for hymphopaemia, 3.5% for neutronaenia. 3.2% for increased alkaline phosphatase, 8.2% for increased AST, 10.1% for increased ALT, 1.3% for increased total bilirubin. 1.3% for increased creatinine, 11.9% for 3.5 in or increased amylises, 15.6% for increased lipsae, 3.5% for hyperdycaemia, 2.8% for hypercalcaemia, 0.3% for hypercalcaemia, 3.5% for hypercalcaemia, 5.4% for hypercaemia, 5.4% for hyper with involumab monotherapy 3 mg/kg or 240 mg every 2 weeks and evaluable for the presence of anti product antibodies, 255 patients (10.9%) tested positive for treatment emergent anti product antibodies with fifteen patients (0.6%) testing positive for neutralising antibodies. Of the patients who were treated with nivolumab in combination with ipilimumab and evaluable for the presence of anti-nivolumab antibodies, the incidence of anti-nivolumab antibodies was 26.0% with nivolumab 3 mg/kg and ipilimumab 1 mg/kg every 3 weeks and 37.8% with nivolumab 1 mg/kg and ipilimumab 3 mg/kg every 3 weeks. The incidence of neutralising antibodies against nivolumab was 0.5% with nivolumab 3 mg/kg and ipilimumab 1 mg/kg every 3 weeks and 4.6% with nivolumab 1 mg/kg and ipilimumab 3 mg/kg every 3 weeks. Of patients evaluable for the presence of anti-ipilimumab antibodies, the incidence of anti-ipilimumab antibodies ranged from 6.3 to 8.4% and neutralising antibodies against joilinumab ranged from 0 to 0.3%. Of the patients who were treated with nivolumab in combination with joilinumab and chemotherapy and evaluable for the presence of anti-nivolumab antibodies or neutralising antibodies against nivolumab, the incidence of anti-nivolumab antibodies was 33.8% and the incidence of neutralising antibodies was 2.6%. Of the patients who were treated with nivolumab in combination with joilinumab and chemotherapy and evaluable for the presence of antiioilimumab antibodies or neutralising antibodies against ioilimumab, the incidence of anti-ioilimumab antibodies was 7.5%, and the neutralising antibodies was 1.6%. Although the clearance of nivolumab was increased by 20% when anti-nivolumab-antibodies were present, there was no evidence of loss of efficacy or altered toxicity profile in the presence of nivolumab antibodie based on the pharmacokinetic and exposure-response analyses for both monotherapy and combination. Elderly No overall differences in safety were reported between elderly (\geq 65 years) and unuser patients (5 65 years). Deta from SCCIM and adjuvant melanoma patients TS years of age or other are too limited to draw conclusions on this population (see section 5.1). Data from RCCI patients 65 years of age or other are too limited to draw conclusions on this population (see section 5.1). For patients treated with rivolumab 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). He patients treated with rivolumab 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). He patient or renal impairment. In the non-squamous NSCLC study (CA209057), the ALL patients /s years of age or other are too limited to draw conclusions on mis population (see section 3.1). <u>Hispatia (or renal impariment</u>) in the non-squannius NIZUL SUDY (LAZUSUS/), me safety profile in patients with baseline renal or hepatic impairment was comparable to that in the overall population. These results should be interpreted with raution due to the said scaping size within the subgroups. <u>Reporting of suspected adverse reactions</u> Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/first balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in <u>Appendix J. 7. MarkERTINA (JUTHORISATION HOLDER BISTAD). Hope Sough before EAR SI Balanchardstown Comparate Park 2 Dulls (To 18 Taf Ir Irland A. MARKETINIA AUTHORISATION NUMBER(S) EU/7/15/1014/001 EU/7/15/1014/002 EU/7/15/1014/003 9, DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION Date of first authorisation:</u> 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 22 April 2021 Detailed information on this medicinal product is available on the website of the European Medicines Agency http://www.ema.europa.eu