Immune-Mediated Adverse Reactions Management Guide











OPDIVO® (nivolumab), OPDIVO in combination with other therapeutic agents, and Opdualag[™] (nivolumab and relatlimab-rmbw) indications^{1,2}



OPDIVO, as a single agent or in combination with YERVOY[®] (ipilimumab), is indicated for the treatment of adult patients with unresectable or metastatic melanoma.



OPDIVO is indicated for the adjuvant treatment of adult patients with melanoma with involvement of lymph nodes or metastatic disease who have undergone complete resection.



OPDIVO, in combination with YERVOY, is indicated for the first-line treatment of adult patients with metastatic non-small cell lung cancer (NSCLC) whose tumors express PD-L1 (≥1%) as determined by an FDA-approved test, with no EGFR or ALK genomic tumor aberrations.

OPDIVO, in combination with YERVOY and 2 cycles of platinum-doublet chemotherapy, is indicated for the first-line treatment of adult patients with metastatic or recurrent NSCLC, with no EGFR or ALK genomic tumor aberrations.

OPDIVO is indicated for the treatment of adult patients with metastatic NSCLC with progression on or after platinum-based chemotherapy. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on FDA-approved therapy for these aberrations prior to receiving OPDIVO.



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



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

OPDIVO, in combination with cabozantinib, is indicated for the first-line treatment of adult patients with advanced RCC.

OPDIVO is indicated for the treatment of adult patients with advanced renal cell carcinoma (RCC) who have received prior anti-angiogenic therapy.



OPDIVO is indicated for the treatment of adult patients with classical Hodgkin lymphoma (cHL) that has relapsed or progressed after autologous hematopoietic stem cell transplantation (HSCT) and brentuximab vedotin or after 3 or more lines of systemic therapy that includes autologous HSCT. This indication is approved under accelerated approval based on overall response rate. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials.



OPDIVO is indicated for the treatment of adult patients with recurrent or metastatic squamous cell carcinoma of the head and neck (SCCHN) with disease progression on or after a platinum-based therapy.



who are at high risk of recurrence after undergoing radical resection of UC. OPDIVO is indicated for treatment of adult patients with locally advanced or metastatic urothelial carcinoma who

OPDIVO, as a single agent, is indicated for the adjuvant treatment of adult patients with urothelial carcinoma (UC)

have disease progression during or following platinum-containing chemotherapy or have disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy.

OPDIVO (10 mg/mL), YERVOY (5 mg/mL), and Opdualag (nivolumab 12 mg/mL and relatiimab-rmbw 4 mg/mL) are injections for intravenous use.¹⁻³ ALK=anaplastic lymphoma kinase; EGFR=epidermal growth factor receptor; PD-L1=programmed death-ligand 1.

Please see Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for OPDIVO, YERVOY, and Opdualag. Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.



OPDIVO, as a single agent or in combination with YERVOY, is indicated for the treatment of adult and pediatric patients (12 years and older) with microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) metastatic colorectal cancer (CRC) that has progressed following treatment with a fluoropyrimidine, oxaliplatin, and irinotecan. This indication is approved under accelerated approval based on overall response rate and duration of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in confirmatory trials.



OPDIVO, in combination with YERVOY, is indicated for the treatment of adult patients with hepatocellular carcinoma (HCC) who have been previously treated with sorafenib. This indication is approved under accelerated approval based on overall response rate and duration of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in the confirmatory trials.



OPDIVO is indicated for the adjuvant treatment of completely resected esophageal or gastroesophageal junction cancer with residual pathologic disease in patients who have received neoadjuvant chemoradiotherapy (CRT).



OPDIVO is indicated for the treatment of adult patients with unresectable advanced, recurrent or metastatic esophageal squamous cell carcinoma (ESCC) after prior fluoropyrimidine- and platinum-based chemotherapy.



OPDIVO, in combination with fluoropyrimidine- and platinum-containing chemotherapy, is indicated for the treatment of adult patients with advanced or metastatic gastric cancer, gastroesophageal junction cancer, or esophageal adenocarcinoma.

Opdualag



Opdualag is indicated for the treatment of adult and pediatric patients 12 years and older with unresectable or metastatic melanoma.

Please see recommended dosing on pages 30-32.

OPDIVO Summary of Warnings and Precautions

reactions including pneumonitis, colitis, hepatitis and hepatotoxicity, endocrinopathies, nephritis with renal dysfunction,

Opdualag Summary of Warnings and Precautions

transplantation (HSCT) after PD-1/PD-L1 blocking antibody; and embryo-fetal toxicity.

 OPDIVO and YERVOY are associated with the following Warnings and Precautions: severe and fatal immune-mediated adverse dermatologic adverse reactions, other immune-mediated adverse reactions; infusion-related reactions; complications of allogeneic hematopoietic stem cell transplantation; embryo-fetal toxicity; and increased mortality in patients with multiple myeloma when OPDIVO is added to a thalidomide analogue and dexamethasone, which is not recommended outside of controlled clinical trials.

 Opdualag is associated with the following Warnings and Precautions: severe and fatal immune-mediated adverse reactions including pneumonitis, colitis, hepatitis, endocrinopathies, nephritis with renal dysfunction, dermatologic adverse reactions, myocarditis, and other immune-mediated adverse reactions; infusion-related reactions; complications of allogenic hematopoietic stem cell

Monitoring and consultation considerations for potential and suspected immune-mediated adverse reactions (IMARs)

Considerations when managing IMARs^{1,2,4-9}



Close monitoring of signs/symptoms



Withholding or discontinuing therapy, use/taper of corticosteroids

- While some side effects of immunotherapy may appear similar to those of other treatments, they may need to be managed differently
- IMARs, which may be severe or fatal, can occur in any organ system or tissue. IMARs listed herein may not include all possible IMARs
- Prompt patient reporting of side effects may help lead to identification of IMARs
- While some patients may have to discontinue treatment, others may need to withhold treatment and may be able to resume after appropriate intervention and IMAR resolution

Routine monitoring for potential IMARs¹⁻³

- Patients treated with OPDIVO[®] (nivolumab) or Opdualag[™] (nivolumab and relatlimab-rmbw) should be monitored at baseline and periodically during treatment
- Patients treated with OPDIVO + YERVOY[®] (ipilimumab) should be monitored at baseline and before each dose
- In patients treated with OPDIVO in combination with CABOMETYX® (cabozantinib), consider more frequent monitoring of liver enzymes than when the drugs are administered as single agents
- Patients with cardiac or cardio-pulmonary symptoms treated with Opdualag should be assessed for potential myocarditis
- Patients should also be monitored for signs and symptoms of other adverse reactions, including infusion-related reactions and complications of allogeneic hematopoietic stem cell transplantation (HSCT)
- IMARs can occur at any time during treatment and after discontinuation of therapy
- Monitor closely for symptoms and signs of underlying IMARs
- This is not an exhaustive list of clinical tests and exams

IMAR	Recommended monitoring for OPDIVO, OPDIVO + YERVOY, Opdualag, and approved combinations with OPDIVO
Hepatitis	Liver enzymes
Endocrinopathies	 Adrenocorticotropic hormone levels (for OPDIVO + YERVOY only) Thyroid function Hyperglycemia
Nephritis and renal dysfunction	Serum creatinine

Monitoring and consultation for suspected IMARs¹⁻³

- In cases of suspected IMARs, initiate appropriate workup to exclude alternative etiologies, including infection
- Institute medical management promptly, including specialty consultation as appropriate

Please see Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for OPDIVO, YERVOY, and Opdualag. Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.

Organ systems potentially affected by IMARs¹⁻³



These are not all the possible organ systems that may be affected.¹⁻³

YERVOY may be associated with eye problems with signs and symptoms that include blurry vision, double vision or other vision problems, and eye pain or redness.³

Complications of allogeneic HSCT, such as graft-versus-host disease, can be fatal, and other serious complications can occur in patients who receive allogeneic HSCT before or after being treated with OPDIVO, YERVOY, and Opdualag.¹⁻³

The signs and symptoms related to potential IMARs reported with OPDIVO, OPDIVO + YERVOY, and Opdualag are listed

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PULMONARY: Pneumonitis **Management considerations**

OPDIVO® (nivolumab), OPDIVO + YERVOY® (ipilimumab), and Opdualag™ (nivolumab and relatlimab-rmbw) can cause immunemediated pneumonitis, defined as requiring the use of steroids and having no clear alternate etiology. Fatal cases have been reported. The incidence of pneumonitis is higher in patients who have received prior thoracic radiation.^{1,2}

Signs and symptoms may include^{1,2}:

New or worsening cough

• Shortness of breath • Chest pain

Management considerations for immune-mediated pneumonitis¹⁻³

Grades based on CTCAE V5.0 ¹⁰	Grade 1 Asymptomatic; clinical or diagnostic observations only; intervention not indicated	Grade 2 Symptomatic; medical intervention indicated; limiting instrumental ADL	Grade 3–4 Grade 3: Severe symptoms; limiting self-care ADL; oxygen indicated Grade 4: Life-threatening respiratory compromise; urgent intervention indicated (eg, tracheotomy or intubation)
Dose modification with OPDIVO, OPDIVO + YERVOY, or Opdualag	Continue treatment	Withhold treatment*	Permanently discontinue treatment
Management	_	Administer 1 to 2 mg/kg/day prednisone or equivalent until improvement to Grade 1 or less. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month.	
Follow-up	_	 Consider administration of other systemic immunosuppressants in patients whose immune-mediated adverse reactions are not controlled with corticosteroid therapy. Treatments received by some patients in clinical trials: For OPDIVO 3 mg/kg + YERVOY 1 mg/kg (aRCC and mCRC; n=666): of the patients with pneumonitis (n=26), 8% required coadministration of another immunosuppressant with corticosteroids 	

In trials that evaluated OPDIVO as a single agent or in combination with YERVOY, toxicity was graded per NCI CTCAE V4. In a trial that evaluated Opdualag, toxicity was graded per NCI CTCAE V5.0.1,2

When OPDIVO is administered in combination with YERVOY, if OPDIVO is withheld or discontinued, YERVOY should also be withheld or discontinued.

*Resume in patients with complete or partial resolution (Grade 0 to 1) after corticosteroid taper. Permanently discontinue if no complete or partial resolution within 12 weeks of last dose or inability to reduce prednisone to 10 mg per day (or equivalent) or less within 12 weeks of initiating steroids.

ADL=activities of daily living; aRCC=advanced renal cell carcinoma; CTCAE=Common Terminology Criteria for Adverse Events; mCRC=metastatic colorectal cancer; NCI=National Cancer Institute

Please see Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for OPDIVO, YERVOY, and Opdualag. Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.

Immune-mediated pneumonitis: Summary of select clinical trial data

Select data for all grades of immune-mediated pneumonitis¹⁻³

Pooled data for immune-mediated pneumonitis with OPDIVO and OPDIVO + YERVOY are provided below. In mNSCLC. 4 patients (0.7%) died due to pneumonitis. For incidence by grade, please see the Important Safety Information on pages 34-41. For full dosing information, please see pages 30-32.

	Incidence	Resolu
OPDIVO single agent	3.1% 61 of 1994 patients In CHL patients receiving C mediated pneumonitis oct of patients resumed treat	840 of 61 par IPDIVO as a sing surred in 4.9% (13 ment with OPDIV
OPDIVO 1 mg/kg + YERVOY 3 mg/kg mMel and HCC	7% 31 of 456 patients	94 of 31 pat
OPDIVO 3 mg/kg + YERVOY 1 mg/kg aRCC and mCRC	3.9% 26 of 666 patients	92 of 26 pa
OPDIVO 3 mg/kg + YERVOY 1 mg/kg mNSCLC	9% 50 of 576 patients	729 of 50 pa
Opdualag mMel	3.7% 13 of 355 patients	850 of 13 pati

In the trials that evaluated OPDIVO as a single agent and in combination with YERVOY, OPDIVO monotherapy was administered using weight-based dosing. Clinically significant adverse reactions of OPDIVO as a single agent were evaluated in 1994 patients enrolled in Checkmate 037, 017, 057, 066, 025, 067, 205, and 039, or a single-arm trial in NSCLC (n=117).¹

Onset (median and range) for all grades of immune-mediated pneumonitis¹¹⁻¹⁷



¹Recurrence rates are calculated among patients who withheld therapy and then re-initiated treatment after symptom improvement.¹³ cHL=classical Hodgkin lymphoma; HCC=hepatocellular carcinoma; mMel=metastatic melanoma; mNSCLC=metastatic NSCLC; NSCLC=non-small cell lung cancer.



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GASTROINTESTINAL: Colitis Management considerations

OPDIVO[®] (nivolumab), OPDIVO + YERVOY[®] (ipilimumab), and Opdualag[™] (nivolumab and relatlimab-rmbw) can cause immune-mediated colitis, which may be fatal. Immune-mediated colitis is defined as requiring the use of steroids and having no clear alternate etiology.^{1,2}

Signs and symptoms may include^{1,2}:

• Diarrhea (loose stools) or more frequent bowel movements than usual

 Severe stomach area (abdominal) pain or tenderness • Stools that are black, tarry, sticky, or have blood or mucus

Management considerations for potential immune-mediated colitis^{1,2}

Grades based on CTCAE V5.0 ¹⁰	Grade 1 Asymptomatic; clinical or diagnostic observations only; intervention not indicated	Grade 2 Abdominal pain; mucus or blood in stool	Grade 3 Severe abdominal pain; peritoneal signs	Grade 4 Life-threatening consequences; urgent intervention indicated
Dose modification with OPDIVO or Opdualag	Continue treatment	Withhold treatment*	For patients on OPDIVO or Opdualag , withhold treatment for Grade 3*	For patients on OPDIVO or Opdualag , permanently discontinue treatment for Grade 4
Dose modification with OPDIVO + YERVOY	Continue treatment	Withhold treatment*	For patients on OPDIVO + YERVOY, permanently discontinut treatment for Grade 3 or 4 symptoms	
Management	_	Administer 1 to 2 mg/kg/day prednisone or equivalent until improvement to Grade 1 or less. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month.		
Follow-up	_	 Consider administration of other systemic immunosuppressants in patients whose immune-mediated adverse reactions are not controlled with corticosteroid therapy. Treatments received by some patients in clinical trials: For OPDIVO single agent (n=1994): of the patients with colitis (n=58), 7% (n=4) received infliximab in addition to high-dose corticosteroids For OPDIVO 1 mg/kg + YERVOY 3 mg/kg (mMel and HCC; n=456): of the patients with colitis (n=115), 23% received infliximab in addition to high-dose corticosteroids For OPDIVO 3 mg/kg + YERVOY 1 mg/kg (aRCC and mCRC; n=666): of the patients with colitis (n=60), 23% received infliximab in addition to high-dose corticosteroids Cytomegalovirus (CMV) infection/reactivation has been reported in patients with corticosteroid-refractory immune-mediated colitis. In cases of corticosteroid-refractory colitis, consider repeating infectious workup to exclude alternative etiologies 		

In trials that evaluated OPDIVO as a single agent or in combination with YERVOY, toxicity was graded per NCI CTCAE V4. In a trial that evaluated Opdualag, toxicity was graded per NCI CTCAE V5.0.¹²

When OPDIVO is administered in combination with YERVOY, if OPDIVO is withheld or discontinued, YERVOY should also be withheld or discontinued.¹ *Resume in patients with complete or partial resolution (Grade 0 to 1) after corticosteroid taper. Permanently discontinue if no complete or partial resolution within 12 weeks of last dose or inability to reduce prednisone to 10 mg per day (or equivalent) or less within 12 weeks of initiating steroids.¹²

aRCC=advanced renal cell carcinoma; CTCAE=Common Terminology Criteria for Adverse Events; HCC=hepatocellular carcinoma; mCRC=metastatic colorectal cancer; mMel=metastatic melanoma; NCI=National Cancer Institute.

Immune-mediated colitis: Summary of select clinical trial data

Select data for all grades of immune-mediated colitis¹⁻³

Pooled data for immune-mediated colitis with OPDIVO and OPDIVO + YERVOY are provided below. For incidence by grade, please see the Important Safety Information on pages 34–41. For full dosing information, please see pages 30–32.

	Incidence	Resoluti
OPDIVO single agent	2.9% 58 of 1994 patients	86% of 58 patie
OPDIVO 1 mg/kg + YERVOY 3 mg/kg mMel and HCC	25% 115 of 456 patients	93% of 115 patio
OPDIVO 3 mg/kg + YERVOY 1 mg/kg aRCC and mCRC	9% 60 of 666 patients	95% of 60 patie
Opdualag mMel	7% 24 of 355 patients	83% of 24 patie

In the trials that evaluated OPDIVO as a single agent and in combination with YERVOY, OPDIVO monotherapy was administered using weight-based dosing.¹ Clinically significant adverse reactions of OPDIVO as a single agent were evaluated in 1994 patients enrolled in Checkmate 037, 017, 057, 066, 025, 067, 205, and 039, or a single-arm trial in NSCLC (n=117).¹

Onset (median and range) for all grades of immune-mediated colitis^{11-14,16,17}



[†]Recurrence rates are calculated among patients who withheld therapy and then re-initiated treatment after symptom improvement.¹⁻³ NSCLC=non-small cell lung cancer.





ENDOCRINE: Adrenal insufficiency

Management considerations

OPDIVO® (nivolumab), OPDIVO + YERVOY® (ipilimumab), OPDIVO + CABOMETYX® (cabozantinib), and Opdualag™ (nivolumab and relatlimab-rmbw) can cause immune-mediated endocrinopathies, including primary or secondary adrenal insufficiency, immunemediated hypophysitis, immune-mediated thyroid disorders, and type 1 diabetes mellitus, which can present with diabetic ketoacidosis.¹²

Signs and symptoms for all immune-mediated endocrine adverse reactions may include^{1,2}: Eye sensitivity to light

- Headaches that will not go away or unusual headaches
- Eye problems • Extreme tiredness
- Weight loss or weight gain Dizziness or fainting
- Rapid heartbeat Increased sweating
- Changes in mood or behavior, such as decreased sex drive, irritability, or
- Feeling more • Feeling cold hungry or thirsty than usual • Urinating more
 - Constipation

Voice gets deeper • Hair loss

forgetfulness often than usual

Management considerations for immune-mediated adrenal insufficiency^{1,2}

Grades based on CTCAE V5.0 ¹⁰	Grade 1 Asymptomatic; clinical or diagnostic observations only; intervention not indicated	Grade 2 Moderate symptoms; medical intervention indicated	Grade 3 Severe symptoms; hospitalization indicated	Grade 4 Life-threatening consequences; urgent intervention indicated
Dose modification with OPDIVO, OPDIVO + YERVOY, or Opdualag	Continue treatment	Consider withholding depending on clinical severity until symptom improvement with hormone replacement. Resume treatment once acute symptoms have resolved.	Withhold treatment ur permanently discontin	ıtil clinically stable or ue depending on severity.
Management	_	Initiate symptomatic treatment, including hormone replacement as clinically indicated. Administer 1 to 2 mg/kg/day prednisone or equivalent until improvement to Grade 1 or less if clinically appropriate. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month.		
Follow-up	_	 Consider administration of other systemic immunosuppressants, including corticosteroid therapy, if clinically appropriate. Treatments received by some patients in clinical trials: For OPDIVO single agent (n=1994): of the patients with adrenal insufficiency (n=20), ~85% received HRT and 90% required systemic corticosteroids For OPDIVO 1 mg/kg + YERVOY 3 mg/kg (mMel and HCC; n=456): of the patients with adrenal insufficiency (n=35), ~71% received HRT, including systemic corticosteroids For OPDIVO 3 mg/kg + YERVOY 1 mg/kg (aRCC and mCRC; n=666): of the patients with adrenal insufficiency (n=48), ~94% received HRT, including systemic corticosteroids For OPDIVO + CABOMETYX (aRCC; n=320): of the patients with adrenal insufficiency (n=15), ~80% received HRT, including systemic corticosteroids For Opdualag (mMel; n=355): of the patients with adrenal insufficiency (n=15), 87% received HRT, and 87% required systemic corticosteroids 		

In trials that evaluated OPDIVO as a single agent or in combination with YERVOY or CABOMETYX, toxicity was graded per NCI CTCAE V4. In a trial that evaluated Opdualag, toxicity was graded per NCI CTCAE V5.0.12

When OPDIVO is administered in combination with YERVOY, if OPDIVO is withheld or discontinued. YERVOY should also be withheld or discontinued. aRCC=advanced renal cell carcinoma; CTCAE=Common Terminology Criteria for Adverse Events; HCC=hepatocellular carcinoma; HRT=hormone replacement therapy; mCRC=metastatic colorectal cancer; mMel=metastatic melanoma; NCI=National Cancer Institute.

Please see Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for OPDIVO, YERVOY, and Opdualag. Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.

Immune-mediated adrenal insufficiency: Summary of select clinical trial data

Select data for all grades of immune-mediated adrenal insufficiency^{1,2}

Pooled data for immune-mediated adrenal insufficiency with OPDIVO and OPDIVO + YERVOY are provided below. For incidence by grade, please see the Important Safety Information on pages 34-41. For full dosing information, please see pages 30-32.

	Incidence	Resol
OPDIVO single agent	1% 20 of 1994 patients	35 of 20 pt
OPDIVO 1 mg/kg + YERVOY 3 mg/kg mMel and HCC	8% 35 of 456 patients	37 of 35 pa
OPDIVO 3 mg/kg + YERVOY 1 mg/kg aRCC and mCRC	7% 48 of 666 patients	29 of 48 pa
OPDIVO + CABOMETYX aRCC	4.7% 15 of 320 patients	27 9 of 15 pa
Opdualag mMel	4.2% 15 of 355 patients	33 of 15 pa

In the trials that evaluated OPDIVO as a single agent and in combination with YERVOY, OPDIVO monotherapy was administered using weight-based dosing. In the aRCC trial evaluating OPDIVO in combination with CABOMETYX, OPDIVO 240 mg was administered.¹ Clinically significant adverse reactions of OPDIVO as a single agent were evaluated in 1994 patients enrolled in Checkmate 037, 017, 057, 066, 025, 067, 205, and 039, or a single-arm trial in NSCLC (n=117).

Onset (median and range) for all grades of immune-mediated adrenal insufficiency^{11-14,16,17}



*Recurrence rates are calculated among patients who withheld therapy and then re-initiated treatment after symptom improvement. [†]All of these patients required hormone replacement therapy for their ongoing adrenal insufficiency.¹ NSCLC=non-small cell lung cancer.



OPDIVO® (nivolumab), OPDIVO + YERVOY® (ipilimumab), and Opdualag™ (nivolumab and relatlimab-rmbw) can cause immune-mediated hypophysitis. Hypophysitis can present with acute symptoms associated with mass effect such as headache, photophobia, or visual field defects. Hypophysitis can cause hypopituitarism. For additional signs and symptoms for all immunemediated endocrine adverse reactions, see page 10.^{1,2}

Management considerations for immune-mediated hypophysitis^{1,2}

Grades based on CTCAE V5.0 ¹⁰	Grade 1 Asymptomatic or mild symptoms; clinical or diagnostic observations only; intervention not indicated	Grade 2 Moderate; minimal, local, or noninvasive intervention indicated; limiting age-appropriate instrumental ADL	Grade 3 Severe or medically significant but not immediately life-threatening; hospitalization or prolongation of existing hospitalization indicated; limiting self-care ADL	Grade 4 Life- threatening consequences; urgent intervention indicated
Dose modification with OPDIVO, OPDIVO + YERVOY, or Opdualag	Continue treatment	Consider withholding depending on clinical severity until symptom improvement with hormone replacement. Resume treatment once acute symptoms have resolved.		y stable or ing on severity.
Management	_	Initiate hormone replacement as clinically indicated. Administer 1 to 2 mg/kg/day prednisone or equivalent until improvement to Grade 1 or less if clinically appropriate. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month.		
Follow-up	_	 Consider administration of other systemic immunosuppressants, including corticosteroid therapy, if clinically appropriate. Treatments received by some patients in clinical trials: For OPDIVO single agent (n=1994): of the patients with hypophysitis (n=12), 67% received HRT, including systemic corticosteroids For OPDIVO 1 mg/kg + YERVOY 3 mg/kg (mMel and HCC; n=456): of the patients with hypophysitis (n=42), 86% received HRT, and 88% required systemic corticosteroids For OPDIVO 3 mg/kg + YERVOY 1 mg/kg (aRCC and mCRC; n=666): of the patients with hypophysitis (n=29), ~72% received HRT, including systemic corticosteroids For Opdualag (mMel; n=355): of the patients with hypophysitis (n=9), 100% received HRT, and 100% required systemic corticosteroids 		

In trials that evaluated OPDIVO as a single agent or in combination with YERVOY, toxicity was graded per NCI CTCAE V4. In a trial that evaluated Opdualag, toxicity was graded per NCI CTCAE V5.0.^{1,2}

When OPDIVO is administered in combination with YERVOY, if OPDIVO is withheld or discontinued, YERVOY should also be withheld or discontinued.

ADL=activities of daily living; aRCC=advanced renal cell carcinoma; CTCAE=Common Terminology Criteria for Adverse Events; HCC=hepatocellular carcinoma; HRT=hormone replacement therapy; mCRC=metastatic colorectal cancer; mMel=metastatic melanoma; NCI=National Cancer Institute.

Immune-mediated hypophysitis: Summary of select clinical trial data

Select data for all grades of immune-mediated hypophysitis^{1,2}

Pooled data for immune-mediated hypophysitis with OPDIVO and OPDIVO + YERVOY are provided below. For incidence by grade, please see the Important Safety Information on pages 34-41. For full dosing information, please see pages 30-32.

	Incidence	Resolut
OPDIVO single agent	0.6% 12 of 1994 patients	42% of 12 patio
OPDIVO 1 mg/kg + YERVOY 3 mg/kg mMel and HCC	9% 42 of 456 patients	38% of 42 pati
OPDIVO 3 mg/kg + YERVOY 1 mg/kg aRCC and mCRC	4.4% 29 of 666 patients	59% of 29 pati
Opdualag mMel	2.5% 9 of 355 patients	22% of 9 patie

In the trials that evaluated OPDIVO as a single agent and in combination with YERVOY, OPDIVO monotherapy was administered using weight-based dosing.

Clinically significant adverse reactions of OPDIVO as a single agent were evaluated in 1994 patients enrolled in Checkmate 037, 017, 057, 066, 025, 067, 205, and 039, or a single-arm trial in NSCLC (n=117).¹

Onset (median and range) for all grades of immune-mediated hypophysitis^{11-14,16,17}



*Recurrence rates are calculated among patients who withheld therapy and then re-initiated treatment after symptom improvement. NSCLC=non-small cell lung cancer.



t (month	5)					Months
18	21	24	27	30	33	36
l1 month	IS					
bs to 12	2 mont	hc				
.115 LU 15	.2 1110110	15				
OPDIVO by OPDIN	+ YERVO /O single	Y followed agent	ł	f	Dpdualag ixed dose	

ENDOCRINE: Type 1 diabetes mellitus Management considerations

OPDIVO[®] (nivolumab), OPDIVO + YERVOY[®] (ipilimumab), and Opdualag[™] (nivolumab and relatlimab-rmbw) can cause type 1 diabetes mellitus, which can present with diabetic ketoacidosis. For additional signs and symptoms of all immune-mediated endocrine adverse reactions, see page 10.¹⁻³

Management considerations for immune-mediated type 1 diabetes mellitus that can present with diabetic ketoacidosis¹⁻³

Grades based on CTCAE V5.0 for hyperglycemia ¹⁰	Grade 1 Abnormal glucose above baseline with no medical intervention	Grade 2 Change in daily management from baseline for a diabetic; oral antiglycemic agent initiated; workup for diabetes	Grade 3 Insulin therapy initiated; hospitalization indicated	Grade 4 Life-threatening consequences; urgent intervention indicated	
Dose modification with OPDIVO, OPDIVO + YERVOY, or Opdualag	Continue treatment	Consider withholding depending on clinical severity until symptom improvement with hormone replacement. Resume treatment once acute symptoms have resolved.	Withhold treatment until clinically stable or permanently discontinue depending on severity.		
Management	Monitor patients for as clinically indicated	ts for hyperglycemia or other signs and symptoms of diabetes. Initiate treatment with i icated.			
	_	Administer 1 to 2 mg/kg/day prednisone or equivalent until impro Grade 1 or less if clinically appropriate. Upon improvement to Grad corticosteroid taper and continue to taper over at least 1 month.			
Follow-up	_	 Consider administration of other systemic immunosuppressants, including corticosteroid therapy, if clinically appropriate. Treatments received by some patients in clinical trials: For OPDIVO single agent (n=1994): of the patients who developed type 1 diabetes (n=17), none required systemic corticosteroids For OPDIVO 3 mg/kg + YERVOY 1 mg/kg (aRCC and mCRC; n=666): of the patients who developed type 1 diabetes (n=15), 7% required systemic corticosteroids 			

In trials that evaluated OPDIVO as a single agent or in combination with YERVOY, toxicity was graded per NCI CTCAE V4. In a trial that evaluated Opdualag, toxicity was graded per NCI CTCAE V5.0.¹²

When OPDIVO is administered in combination with YERVOY, if OPDIVO is withheld or discontinued, YERVOY should also be withheld or discontinued.¹ aRCC=advanced renal cell carcinoma; CTCAE=Common Terminology Criteria for Adverse Events; mCRC=metastatic colorectal cancer; NCI=National Cancer Institute.

Immune-mediated type 1 diabetes mellitus: Summary of select clinical trial data

Select data for all grades of type 1 diabetes mellitus¹⁻³

Pooled data for immune-mediated type 1 diabetes mellitus with OPDIVO and OPDIVO + YERVOY are provided below. Pooled data for OPDIVO 1 mg/kg + YERVOY 3 mg/kg are not available in the OPDIVO or YERVOY Prescribing Information for type 1 diabetes mellitus. Two cases of diabetic ketoacidosis were reported for OPDIVO single agent. For incidence by grade, please see the Important Safety Information on pages 34–41. For full dosing information, please see pages 30–32.

	Incidence	Resolut
OPDIVO single agent	0.9% 17 of 1994 patients	29% of 17 patie
OPDIVO 3 mg/kg + YERVOY 1 mg/kg aRCC and mCRC	2.7% 15 of 666 patients	27% of 15 patie
Opdualag mMel	0.3% 1 of 355 patients	-

In the trials that evaluated OPDIVO as a single agent and in combination with YERVOY, OPDIVO monotherapy was administered using weight-based dosing.¹ Clinically significant adverse reactions of OPDIVO as a single agent were evaluated in 1994 patients enrolled in Checkmate 037, 017, 057, 066, 025, 067, 205, and 039, or a single-arm trial in NSCLC (n=117).¹

Onset (median and range) for all grades of type 1 diabetes mellitus^{11-14,16,17}



*Recurrence rates are calculated among patients who withheld therapy and then re-initiated treatment after symptom improvement.¹³ HCC=hepatocellular carcinoma; mMel=metastatic melanoma; NSCLC=non-small cell lung cancer.



ENDOCRINE: Thyroid disorders **Management considerations**

OPDIVO® (nivolumab), OPDIVO + YERVOY® (ipilimumab), and Opdualag™ (nivolumab and relatlimab-rmbw) can cause immunemediated thyroid disorders, including thyroiditis, hyperthyroidism, and hypothyroidism. Thyroiditis can present with or without endocrinopathy. Hypothyroidism can follow hyperthyroidism. For additional signs and symptoms of all immune-mediated endocrine adverse reactions, see page 10.^{1,2}

Management considerations for immune-mediated thyroid disorders¹⁻³

Grades based on CTCAE V5.0 ¹⁰	Grade 1 Asymptomatic; clinical or diagnostic observations only; intervention not indicated	Grade 2 Symptomatic; limiting instrumental ADL Hyperthyroidism: thyroid suppression therapy indicated Hypothyroidism: thyroid replacement indicated	Grade 3 Severe symptoms; limiting self-care ADL; hospitalization indicated	Grade 4 Life-threatening consequences; urgent intervention indicated
Dose modification with OPDIVO, OPDIVO + YERVOY, or Opdualag	Continue treatment	Consider withholding depending on clinical severity until symptom improvement with hormone replacement. Resume treatment once acute symptoms have resolved.	Withhold treatment until clinically stable or permanently discontinue depending on severity.	
Management	_	Initiate hormone replacement or medical management as clinically indicated. Administer 1 to 2 mg/kg/day prednisone or equivalent until improvement to Grade 1 or less if clinically appropriate. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month.		
Follow-up		 Grade 1 or less if clinically appropriate. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month. Consider administration of other systemic immunosuppressants, including corticosteroid therapy, if clinically appropriate. Treatments received by some patients in clinical trials: Of patients with thyroiditis: For OPDIVO single agent (n=12): 17% required systemic corticosteroids For OPDIVO 3 mg/kg + YERVOY 1 mg/kg (n=22): 18% required systemic corticosteroids For Opdualag (n=10): 20% required systemic corticosteroids Of patients with hyperthyroidism: For OPDIVO single agent (n=54): 19% received methimazole, 7% received carbimazole, 4% received propylthiouracil, and 9% required systemic corticosteroids For OPDIVO 1 mg/kg + YERVOY 3 mg/kg (n=42): 26% received methimazole, 21% received carbimazole, and 17% required systemic corticosteroids For OPDIVO 3 mg/kg + YERVOY 1 mg/kg (n=80): 16% received methimazole, 3% received carbimazole, and 20% required systemic corticosteroids For Opdualag (n=22): 23% required systemic corticosteroids Of patients with hypothyroidism: For OPDIVO single agent (n=163): 79% received levothyroxine and 3.1% required systemic corticosteroids For OPDIVO 1 mg/kg + YERVOY 3 mg/kg (n=91): 89% received levothyroxine and 2.2% required systemic corticosteroids 		luding eceived hic corticosteroids methimazole, roids methimazole, 3% s Id 3.1% required evothyroxine levothyroxine

In trials that evaluated OPDIVO as a single agent or in combination with YERVOY, toxicity was graded per NCI CTCAE V4. In a trial that evaluated Opdualag, toxicity was graded per NCI CTCAE V5.0.^{1,2}

When OPDIVO is administered in combination with YERVOY, if OPDIVO is withheld or discontinued. YERVOY should also be withheld or discontinued.

Immune-mediated thyroid disorders: Summary of select clinical trial data

Select data for all grades of thyroid disorders (thyroiditis, hyperthyroidism, hypothyroidism)¹⁻³

Pooled data for immune-mediated thyroid disorders with OPDIVO and OPDIVO + YERVOY are provided below. Pooled data for OPDIVO 1 mg/kg + YERVOY 3 mg/kg are not available in the OPDIVO or YERVOY Prescribing Information for thyroiditis. For incidence by grade, please see the Important Safety Information on pages 34–41. For full dosing information, please see pages 30–32.

Thyroiditis	Incidence	Resoluti
OPDIVO single agent	0.6% 12 of 1994 patients	58% of 12 patie
OPDIVO 3 mg/kg + YERVOY 1 mg/kg aRCC and mCRC	2.7% 22 of 666 patients	64% of 22 patie
Opdualag mMel	2.8% 10 of 355 patients	90% of 10 patie
Hyperthyroidism	Incidence	Resoluti
OPDIVO single agent	2.7% 54 of 1994 patients	76% of 54 patie
OPDIVO 1 mg/kg + YERVOY 3 mg/kg mMel and HCC	9% 42 of 456 patients	91% of 42 patie
OPDIVO 3 mg/kg + YERVOY 1 mg/kg aRCC and mCRC	12% 80 of 666 patients	85% of 80 patie
Opdualag mMel	6% 22 of 355 patients	82% of 22 patie

In the trials that evaluated OPDIVO as a single agent and in combination with YERVOY, OPDIVO monotherapy was administered using weight-based dosing.¹ Clinically significant adverse reactions of OPDIVO as a single agent were evaluated in 1994 patients enrolled in Checkmate 037, 017, 057, 066, 025, 067, 205, and 039, or a single-arm trial in NSCLC (n=117).1

*Recurrence rates are calculated among patients who withheld therapy and then re-initiated treatment after symptom improvement.13 ADL=activities of daily living; aRCC=advanced renal cell carcinoma; CTCAE=Common Terminology Criteria for Adverse Events; HCC=hepatocellular carcinoma; mCRC=metastatic colorectal cancer; mMel=metastatic melanoma; NCI=National Cancer Institute; NSCLC=non-small cell lung cancer.



Select data for all grades of thyroid disorders (thyroiditis, hyperthyroidism, hypothyroidism) (cont'd)^{1,2}

Pooled data for immune-mediated thyroid disorders with OPDIVO® (nivolumab) and OPDIVO + YERVOY® (ipilimumab) are provided below. For incidence by grade, please see the Important Safety Information on pages 34-41. For full dosing information, please see pages 30-32.

Hypothyroidism	Incidence	Resolution	Permanently discontinued	Withheld treatment	Recurrence after re-initiation*
OPDIVO single agent	8% 163 of 1994 patients	35% of 163 patients	0% of 1994 patients	0.5% of 1994 patients	33% of 3 patients
OPDIVO 1 mg/kg + YERVOY 3 mg/kg mMel and HCC	20% 91 of 456 patients	41% of 91 patients	0.9% of 456 patients	0.9% of 456 patients	0% of 2 patients
OPDIVO 3 mg/kg + YERVOY 1 mg/kg aRCC and mCRC	18% 122 of 666 patients	27% of 122 patients	0.2% of 666 patients	1.4% of 666 patients	20% of 5 patients
Opdualag™ (nivolumab and relatlimab-rmbw) mMel	17% 59 of 355 patients	12% of 59 patients	0.3% of 355 patients	2.5% of 355 patients	33% of 6 patients

In the trials that evaluated OPDIVO as a single agent and in combination with YERVOY, OPDIVO monotherapy was administered using weight-based dosing. Clinically significant adverse reactions of OPDIVO as a single agent were evaluated in 1994 patients enrolled in Checkmate 037, 017, 057, 066, 025, 067, 205, and 039, or a single-arm trial in NSCLC (n=117).¹

Onset (median and range) for all grades of thyroid disorders (thyroiditis, hyperthyroidism, hypothyroidism)^{11-14,16,17}



*Recurrence rates are calculated among patients who withheld therapy and then re-initiated treatment after symptom improvement.¹

aRCC=advanced renal cell carcinoma; HCC=hepatocellular carcinoma; mCRC=metastatic colorectal cancer; mMel=metastatic melanoma; NSCLC=non-small cell lung cancer.

HEPATIC: Hepatitis and hepatotoxicity Management considerations

OPDIVO, OPDIVO + YERVOY, and Opdualag can cause immune-mediated hepatitis, defined as requiring the use of steroids and having no clear alternate etiology. OPDIVO + CABOMETYX® (cabozantinib) can cause hepatic toxicity with higher frequencies of Grade 3 and 4 ALT and AST elevations compared with OPDIVO alone.^{1,2}

Signs and symptoms may include^{1,2}:

- Severe nausea or vomiting
- Dark urine (tea colored)
- Yellowing of the skin or the whites of the eyes

Management considerations for elevated liver enzymes¹

Dose modification with OPDIVO + CABOMETYX	Withhold treatment if ALT o ULN until adverse reactions
	 After recovery, re-challe If re-challenging with CA Prescribing Information
	Permanently discontinue tre bilirubin ≥2x ULN.
Management	Consider corticosteroid thera withheld or discontinued.

Select data for all grades of immune-mediated hepatotoxicity

ALT or AST resolved to Grades 0–1 in 74 (89%). Among the 44 patients with Grade ≥2 increased ALT or AST who

ALT=alanine aminotransferase; AST=aspartate aminotransferase; ULN=upper limit of normal.

Please see Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for OPDIVO, YERVOY, and Opdualag. Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.

- Pain on the right side of the stomach area (abdomen)
- Bleeding or bruising more easily than normal

Liver enzyme elevations

or AST is >3x ULN but ≤10x ULN with concurrent total bilirubin <2x recover to Grades 0–1.

enge with one or both of OPDIVO + CABOMETYX may be considered. ABOMETYX with or without OPDIVO. refer to CABOMETYX

eatment if ALT or AST is >10x ULN <u>or</u> >3x ULN with concurrent total

apy for hepatic adverse reactions if OPDIVO + CABOMETYX is

• With the combination of **OPDIVO + CABOMETYX**, Grades 3 and 4 increased ALT or AST were seen in 11% of patients. ALT or AST >3 times ULN (Grade \geq 2) was reported in 83 patients, of whom 23 (28%) received systemic corticosteroids; were re-challenged with either OPDIVO (n=11) or CABOMETYX (n=9) administered as a single agent or in combination (n=24), recurrence of Grade ≥ 2 increased ALT or AST was observed in 2 patients receiving OPDIVO, 2 patients receiving CABOMETYX, and 7 patients receiving both OPDIVO and CABOMETYX. For full dosing information, please see pages 30–32.

Management considerations for immune-mediated hepatitis^{1,2}

	For patients with hepatitis and no tumor involvement of liver	For patients with hepatitis and tumor involvement of liver without HCC	For patients with hepatitis and tumor involvement of liver or HCC		
Dose modification with OPDIVO® (nivolumab)	Withhold treatment* if AST/ALT increases to >3x and ≤8x ULN <u>or</u> total bilirubin increases to >1.5x and ≤3x ULN. Permanently discontinue treatment if AST/ALT is >8x ULN <u>or</u> total bilirubin is >3x ULN.	Withhold treatment* i increases to >5x and ≤´ ULN and increases to > Permanently discontin ULN <u>or</u> total bilirubin in	f baseline AST/ALT is >1x and \leq 3x ULN and 10x ULN <u>or</u> baseline AST/ALT is >3x and \leq 5x \cdot 8x and \leq 10x ULN. [†] ue treatment if AST/ALT increases to >10x acreases to >3x ULN. [†]		
Dose modification with OPDIVO + YERVOY® (ipilimumab)	Withhold treatment* if AST/ALT increases total bilirubin increases to ≥1.5x and ≤3x ULI Permanently discontinue treatment if AST/ total bilirubin is >3x ULN.	to >3x and ≤5x ULN <u>or</u> N. ALT is >5x ULN <u>or</u>	Withhold treatment* if baseline AST/ALT is >1x and \leq 3x ULN and increases to >5x and \leq 10x ULN <u>or</u> baseline AST/ALT is >3x and \leq 5x ULN and increases to >8x and \leq 10x ULN. [†] Permanently discontinue treatment if AST/ALT increases to >10x ULN <u>or</u> total bilirubin increases to >3x ULN. [†]		
Dose modification with Opdualag [™] (nivolumab and relatlimab- rmbw)	Withhold treatment* if AST/ALT increases to >3x and ≤8x ULN <u>or</u> total bilirubin increases to >1.5x and ≤3x ULN. Permanently discontinue treatment if AST or ALT increases to more than 8 times ULN regardless of baseline <u>or</u> total bilirubin increases to more than 3 times ULN.		_		
Management	Administer 1 to 2 mg/kg/day prednisone or equivalent until improvement to Grade 1 or less. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month.				
Follow-up	 Upon improvement to Grade For less, initiate corticosteroid taper and continue to taper over at least 1 month. Consider administration of other systemic immunosuppressants in patients whose immune-mediated adverse reactions are not controlled with corticosteroid therapy. Treatments received by some patients in clinical trials: For OPDIVO single agent (n=1994): of patients with hepatitis (n=35), 6% received mycophenolic acid in addition to high-dose corticosteroids For OPDIVO 1 mg/kg + YERVOY 3 mg/kg (mMel and HCC; n=456): of patients with hepatitis (n=70), 9% received mycophenolic acid in addition to high-dose corticosteroids For OPDIVO 3 mg/kg + YERVOY 1 mg/kg (aRCC and mCRC; n=666): of patients with hepatitis (n=48), 19% received mycophenolic acid in addition to high-dose corticosteroids 				

In trials that evaluated OPDIVO as a single agent or in combination with YERVOY or CABOMETYX® (cabozantinib), toxicity was graded per NCI CTCAE V4. In a trial that evaluated Opdualag, toxicity was graded per NCI CTCAE V5.0.¹²

When OPDIVO is administered in combination with YERVOY, if OPDIVO is withheld or discontinued, YERVOY should also be withheld or discontinued. *Resume in patients with complete or partial resolution (Grade 0 to 1) after corticosteroid taper. Permanently discontinue if no complete or partial resolution within

12 weeks of last dose or inability to reduce prednisone to 10 mg per day (or equivalent) or less within 12 weeks of initiating steroids.¹ ¹If AST and ALT are less than or equal to ULN at baseline, withhold or permanently discontinue OPDIVO or OPDIVO + YERVOY based on recommendations for hepatitis with no liver involvement.

ALT=alanine aminotransferase; aRCC=advanced renal cell carcinoma; AST=aspartate aminotransferase; HCC=hepatocellular carcinoma; mCRC=metastatic colorectal cancer; mMel=metastatic melanoma; ULN=upper limit of normal

Immune-mediated hepatitis: Summary of select clinical trial data

Select data for all grades of immune-mediated hepatitis^{1,2}

Pooled data for immune-mediated hepatitis with OPDIVO and OPDIVO + YERVOY are provided below. For incidence by grade, please see the Important Safety Information on pages 34-41. For full dosing information, please see pages 30-32.



In the trials that evaluated OPDIVO as a single agent and in combination with YERVOY, OPDIVO monotherapy was administered using weight-based dosing.¹ Clinically significant adverse reactions of OPDIVO as a single agent were evaluated in 1994 patients enrolled in Checkmate 037, 017, 057, 066, 025, 067, 205, and 039, or a single-arm trial in NSCLC (n=117).

Onset (median and range) for all grades of immune-mediated hepatitis^{11-14,16,17}



[‡]Recurrence rates are calculated among patients who withheld therapy and then re-initiated treatment after symptom improvement.¹² NSCLC=non-small cell lung cancer.



RENAL: Nephritis with renal dysfunction Management considerations

OPDIVO[®] (nivolumab), OPDIVO + YERVOY[®] (ipilimumab), Opdualag[™] (nivolumab and relatlimab-rmbw) can cause immunemediated nephritis with renal dysfunction, defined as requiring the use of steroids and having no clear alternate etiology.¹⁻³

Signs and symptoms may include^{1,2}:

Loss of appetite

Blood in urine
 Decrea

• Decrease in the amount of urine • Sw

Swelling in ankles

Management considerations for immune-mediated nephritis with renal dysfunction^{1,2}

Grades based on CTCAE V5.0 for creatinine increased ¹⁰	Grade 1 Creatinine increases greater than ULN-1.5x ULN	Grade 2–3 Grade 2: Creatinine increases greater than 1.5–3x baseline; greater than 1.5–3x ULN Grade 3: Creatinine increases to greater than 3x baseline; greater than 3–6x ULN	Grade 4 Creatinine increases greater than 6x ULN
Dose modification with OPDIVO, OPDIVO + YERVOY, or Opdualag	Continue treatment	Withhold treatment*	Permanently discontinue treatment
Management	_	Administer 1 to 2 mg/kg/day prednisone or equivalent until improvement to Grade 1 or less. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month.	
Follow-up	_	Consider administration of other systemic immunosuppressants in patients whose immune-mediated adverse reactions are not controlled with corticosteroid therapy.	

In trials that evaluated OPDIVO as a single agent or in combination with YERVOY, toxicity was graded per NCI CTCAE V4. In a trial that evaluated Opdualag, toxicity was graded per NCI CTCAE V5.0.¹²

When OPDIVO is administered in combination with YERVOY, if OPDIVO is withheld or discontinued, YERVOY should also be withheld or discontinued.¹

*Resume in patients with complete or partial resolution (Grade 0 to 1) after corticosteroid taper. Permanently discontinue if no complete or partial resolution within 12 weeks of last dose or inability to reduce prednisone to 10 mg per day (or equivalent) or less within 12 weeks of initiating steroids.¹² CTCAE=Common Terminology Criteria for Adverse Events; NCI=National Cancer Institute; ULN=upper limit of normal.

Immune-mediated nephritis with renal dysfunction: Summary of select clinical trial data

Select data for all grades of immune-mediated nephritis with renal dysfunction¹⁻³

Pooled data for immune-mediated renal dysfunction with OPDIVO and OPDIVO + YERVOY are provided below. Pooled data for OPDIVO 1 mg/kg + YERVOY 3 mg/kg are not available in the OPDIVO or YERVOY Prescribing Information for renal dysfunction. For incidence by grade, please see the Important Safety Information on pages 34–41. For full dosing information, please see pages 30–32.

	Incidence	Resolu
OPDIVO single agent	1.2% 23 of 1994 patients	789 of 23 pat
OPDIVO 3 mg/kg + YERVOY 1 mg/kg aRCC and mCRC	4.1% 27 of 666 patients	679 of 27 pat
Opdualag mMel	2% 7 of 355 patients	719 of 7 pati

In the trials that evaluated OPDIVO as a single agent and in combination with YERVOY, OPDIVO monotherapy was administered using weight-based dosing.¹ Clinically significant adverse reactions of OPDIVO as a single agent were evaluated in 1994 patients enrolled in Checkmate 037, 017, 057, 066, 025, 067, 205, and 039, or a single-arm trial in NSCLC (n=117).¹

Onset (median and range) for all grades of immune-mediated nephritis with renal dysfunction^{11-14,16,17}



[‡]Recurrence rates are calculated among patients who withheld therapy and then re-initiated treatment after symptom improvement.¹⁻³ aRCC=advanced renal cell carcinoma; HCC=hepatocellular carcinoma; mCRC=metastatic colorectal cancer; mMel=metastatic melanoma; NSCLC=non-small cell lung cancer.



DERMATOLOGIC: Dermatologic adverse reactions Management considerations

OPDIVO® (nivolumab), OPDIVO + YERVOY® (ipilimumab), and Opdualag[™] (nivolumab and relatlimab-rmbw) can cause immunemediated rash or dermatitis, defined as requiring the use of steroids and having no clear alternate etiology. Exfoliative dermatitis, including Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN), and drug rash with eosinophilia and systemic symptoms (DRESS), has occurred. YERVOY can cause immune-mediated rash or dermatitis, including bullous and exfoliative dermatitis, SJS, TEN, and DRESS.¹⁻³

Signs and symptoms may include^{1,2}:

• Rash	 Skin blistering or 	 Painful sores or ulcers in mouth,
 Itching 	peeling	nose, throat, or genital area

Management considerations for immune-mediated dermatologic adverse reactions^{1,2}

	Suspected SJS, TEN, or DRESS	Confirmed SJS, TEN, or DRESS		
Dose modification with OPDIVO, OPDIVO + YERVOY, or Opdualag	Withhold treatment	Permanently discontinue treatment		
Management	Topical emollients and/or topical corticosteroids may be adequate to treat mild to moderate non- exfoliative rashes. Administer 1 to 2 mg/kg/day prednisone or equivalent until improvement to Grade 1 or less if clinically appropriate. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month.			
Follow-up	Consider administration of other systemic immunosuppressants, including corticosteroid therapy, if clinically appropriate.			

When OPDIVO is administered in combination with YERVOY, if OPDIVO is withheld or discontinued, YERVOY should also be withheld or discontinued.

Immune-mediated dermatologic adverse reactions: Summary of select clinical trial data

Select data for all grades of immune-mediated rash^{1,2}

Pooled data for immune-mediated skin adverse reactions with OPDIVO and OPDIVO + YERVOY are provided below. For incidence by grade, please see the Important Safety Information on pages 34–41. For full dosing information, please see pages 30–32.



In the trials that evaluated OPDIVO as a single agent and in combination with YERVOY, OPDIVO monotherapy was administered using weight-based dosing.¹ Clinically significant adverse reactions of OPDIVO as a single agent were evaluated in 1994 patients enrolled in Checkmate 037, 017, 057, 066, 025, 067, 205, and 039, or a single-arm trial in NSCLC (n=117).¹

Onset (median and range) for all grades of immune-mediated rash^{11-14,16,17}



[‡]Recurrence rates are calculated among patients who withheld therapy and then re-initiated treatment after symptom improvement.¹² aRCC=advanced renal cell carcinoma; HCC=hepatocellular carcinoma; mCRC=metastatic colorectal cancer; mMel=metastatic melanoma; NSCLC=non-small cell lung cancer.



CARDIAC: Myocarditis Management considerations

OPDIVO[®] (nivolumab), OPDIVO + YERVOY[®] (ipilimumab),* and Opdualag[™] (nivolumab and relatlimab-rmbw) can cause immunemediated myocarditis, which is defined as requiring use of steroids and having no clear alternate etiology. The diagnosis of immune-mediated myocarditis requires a high index of suspicion.^{1,2,18}

Signs and symptoms may include²:

- New or worse chest pain
- Shortness of breath Swelling of ankles
- Irregular heartbeat or feel like Tiredness your heart is racing
- Tiredness

Management considerations for immune-mediated myocarditis^{1,2}

Grades based on CTCAE V5.0 ¹⁰	Grade 1 _	Grade 2–4 Grade 2: symptomatic with moderate activity or exertion Grade 3: severe, with symptoms at rest or with minimal activity or exertion; intervention indicated; new onset of symptoms Grade 4: life-threatening consequences; urgent intervention indicated (eg, continuous IV therapy or mechanical hemodynamic support)
Dose modification with OPDIVO, OPDIVO + YERVOY, or Opdualag	Continue treatment	Permanently discontinue treatment
Management	_	Administer 1 to 2 mg/kg/day prednisone or equivalent until improvement to Grade 1 or less and promptly arrange cardiology consultation with diagnostic workup. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month.
Follow-up	_	Consider administration of other systemic immunosuppressants in patients whose IMARs are not controlled with corticosteroid therapy.

In trials that evaluated OPDIVO as a single agent or in combination with YERVOY, toxicity was graded per NCI CTCAE V4. In a trial that evaluated Opdualag, toxicity was graded per NCI CTCAE V5.0.¹²

Select data for all grades of immune-mediated myocarditis²

	Incidence	Resolution	Permanently discontinued	Withheld treatment	Recurrence after re-initiation
Opdualag mMel	1.7% 6 of 355 patients	100% of 6 patients	1.7% 6 of 355 patients	-	-

*Immune-mediated myocarditis occurred at an incidence of <1% in patients who received OPDIVO or OPDIVO + YERVOY.¹

CTCAE=Common Terminology Criteria for Adverse Events; IMAR=immune-mediated adverse reaction; IV=intravenous; mMel=metastatic melanoma; NCI=National Cancer Institute.

Please see Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for <u>OPDIVO</u>, <u>YERVOY</u>, and <u>Opdualag</u>. **Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.**

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Other immune-mediated adverse reactions

Signs and symptoms may include^{1,2}:

- New or worse chest pain, irregular heartbeat or feel like your heart is racing, shortness of breath, tiredness, swelling of ankles
- Persistent or severe muscle pain or weakness, muscle cramps
- Confusion, sleepiness, memory problems, changes in mood or behavior, stiff neck, balance problems, tingling or numbness of the arms or legs
- Double vision, blurry vision, sensitivity to light, eye pain, changes in eyesight
- Low red blood cells, bruising

Management considerations^{1,2}

- When OPDIVO[®] (nivolumab) is administered in combination with YERVOY[®] (ipilimumab), if OPDIVO is withheld or discontinued, YERVOY should also be withheld or discontinued
- Withhold or permanently discontinue OPDIVO, OPDIVO + YERVOY, or Opdualag[™] (nivolumab and relatlimab-rmbw) depending on severity
- In general, if OPDIVO, OPDIVO + YERVOY, or Opdualag requires interruption or discontinuation, administer 1 to 2 mg/kg/day prednisone or equivalent until improvement to Grade 1 or less
- Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month
- Consider administration of other systemic immunosuppressants in patients whose IMARs are not controlled with corticosteroid therapy

The following clinically significant IMARs occurred at an incidence of <1% (unless otherwise noted) in patients who received OPDIVO, OPDIVO + YERVOY, or Opdualag or were reported with the use of other PD-1/PD-L1-blocking antibodies^{1,2}:

Severe or fatal cases have been reported for some of these adverse reactions.

- Cardiac/vascular: Myocarditis (OPDIVO and OPDIVO + YERVOY <1%, please see page 26 for more information on Opdualag myocarditis incidence rate), pericarditis, vasculitis
- Nervous system: Meningitis, encephalitis, myelitis and demyelination, myasthenic syndrome/myasthenia gravis (including exacerbation), Guillain-Barré syndrome, nerve paresis, autoimmune neuropathy
- Ocular: Uveitis, iritis, and other ocular inflammatory toxicities can occur. Some cases can be associated with retinal detachment. Various grades of visual impairment, including blindness, can occur. If uveitis occurs in combination with other immune-mediated adverse reactions, consider a Vogt-Koyanagi-Harada-like syndrome, as this may require treatment with systemic steroids to reduce the risk of permanent vision loss
- Gastrointestinal: Pancreatitis to include increases in serum amylase and lipase levels, gastritis, and duodenitis
- Musculoskeletal and connective tissue: Myositis/polymyositis, rhabdomyolysis, and associated sequelae including renal failure, arthritis, and polymyalgia rheumatica
- Endocrine: Hypoparathyroidism
- Other (hematologic/immune): Hemolytic anemia, aplastic anemia, hemophagocytic lymphohistiocytosis, systemic inflammatory response syndrome, histiocytic necrotizing lymphadenitis (Kikuchi lymphadenitis), sarcoidosis, immune thrombocytopenic purpura, solid organ transplant rejection

Please see Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for OPDIVO, YERVOY, and Opdualag. Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.

Management considerations for immune-mediated neurological toxicities¹⁻³

Grades based on CTCAE V5.0 ¹⁰	Grade 1 Asymptomatic or mild symptoms; clinical or diagnostic observations only; intervention not indicated	Grade 2 Moderate; minimal, local, or noninvasive intervention indicated; limiting age-appropriate instrumental ADL	Grade 3-4 Grade 3: severe or medically significant but not life threatening; hospitalization or prolongation of existing hospitalization indicated; limiting self-care ADL Grade 4: life-threatening consequences; urgent intervention indicated
Dose modification with OPDIVO, OPDIVO + YERVOY, or Opdualag	Continue treatment	Withhold treatment*	Permanently discontinue treatment
Management	_	Administer 1 to 2 mg/kg/day pre Grade 1 or less. Upon improveme taper and continue to taper over	ednisone or equivalent until improvement to nt to Grade 1 or less, initiate corticosteroid at least 1 month.
Follow-up	_	Consider administration of other whose IMARs are not controlled	r systemic immunosuppressants in patients with corticosteroid therapy.

In trials that evaluated OPDIVO as a single agent or in combination with YERVOY, toxicity was graded per NCI CTCAE V4. In a trial that evaluated Opdualag, toxicity was graded per NCI CTCAE V5.0.1,

*Resume in patients with complete or partial resolution (Grade 0 to 1) after corticosteroid taper. Permanently discontinue if no complete or partial resolution within 12 weeks of last dose or inability to reduce prednisone to 10 mg per day (or equivalent) or less within 12 weeks of initiating steroids.¹³ ADL=activities of daily living; CTCAE=Common Terminology Criteria for Adverse Events; IMAR=immune-mediated adverse reaction; PD-1=programmed death receptor-1; PD-L1=programmed death-ligand 1.

Recommended dosage¹

OPDIVO[®] (nivolumab) as a single agent

Indication	Recommended OPDIVO dosage	Duration of therapy
Unresectable or metastatic melanoma		
Metastatic non-small cell lung cancer		
Advanced renal cell carcinoma		
Classical Hodgkin lymphoma	240 mg every 2 weeks* or	Until disease progression or unacceptable
Squamous cell carcinoma of the head and neck	480 mg every 4 weeks*	toxicity
Locally advanced or metastatic urothelial carcinoma		
Esophageal squamous cell carcinoma		
Adjuvant treatment of melanoma	240 mg every 2 weeks*	Until disease recurrence or unacceptable toxicity
Adjuvant treatment of urothelial carcinoma (UC)	480 mg every 4 weeks*	for up to 1 year
Adjuvant treatment of resected esophageal or gastroesophageal junction cancer	240 mg every 2 weeks* <u>or</u> 480 mg every 4 weeks*	Until disease progression or unacceptable toxicity for a total treatment duration of 1 year
Microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) metastatic colorectal cancer	Adult patients and pediatric patients age 12 years and older and weighing 40 kg or more: 240 mg every 2 weeks* <u>or</u> 480 mg every 4 weeks* Pediatric patients age 12 years and older and weighing less than 40 kg: 3 mg/kg every 2 weeks*	Until disease progression or unacceptable toxicity

No premedication required. *30-minute intravenous infusion.

OPDIVO in combination with other therapeutic agents

Indication	Recommended OPDIVO dosage	Duration of therapy
Metastatic non-small cell lung cancer expressing PD-L1 ≥1%	3 mg/kg every 2 weeks [†] with YERVOY [®] (ipilimumab) 1 mg/kg every 6 weeks [†]	In combination with YERVOY until disease progression, unacceptable toxicity, or up to 2 years in patients without disease progression
Metastatic or recurrent non-small cell	360 mg every 3 weeks [†] with YERVOY 1 mg/kg every 6 weeks [†]	In combination with YERVOY until disease progression, unacceptable toxicity, or up to 2 years in patients without disease progression
lung cancer	and histology-based platinum- doublet chemotherapy every 3 weeks	2 cycles of histology-based platinum-doublet chemotherapy
Malignant pleural mesothelioma	360 mg every 3 weeks [†] with YERVOY 1 mg/kg every 6 weeks [†]	In combination with YERVOY until disease progression, unacceptable toxicity, or up to 2 years in patients without disease progression

No premedication required with OPDIVO and YERVOY.

Refer to the YERVOY Prescribing Information for recommended YERVOY dosage information.

[†]30-minute intravenous infusion on the same day.

PD-L1=programmed death-ligand 1.

Please see Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag[™] (nivolumab and relatlimab-rmbw) on pages 39–41, and U.S. Full Prescribing Information for <u>OPDIVO</u>, <u>YERVOY</u>, and <u>Opdualag</u>. Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.

OPDIVO in combination with other therapeutic agents (cont'd)

Indication	Recommended OPDIVO dosage	Duration of therapy
Unvocortable or motactatic molanoma	1 mg/kg every 3 weeks [†] with YERVOY 3 mg/kg intravenously [†]	In combination with YERVOY for a maximum of 4 doses or until unacceptable toxicity, whichever occurs earlier
Unresettable of metastatic metanoma	240 mg every 2 weeks [†] <u>or</u> 480 mg every 4 weeks [†]	After completing 4 doses of combination therapy, administer as single agent until disease progression or unacceptable toxicity
Hansterellular asseinama	1 mg/kg every 3 weeks [†] with YERVOY 3 mg/kg intravenously [†]	In combination with YERVOY for 4 doses
Hepatocenular carcinoma	240 mg every 2 weeks [†] <u>or</u> 480 mg every 4 weeks [†]	After completing 4 doses of combination therapy, administer as single agent until disease progression or unacceptable toxicity
Advanced renal cell carcinoma	3 mg/kg every 3 weeks [†] with YERVOY 1 mg/kg intravenously [†]	In combination with YERVOY for 4 doses
(OPDIVO in combination with YERVOY)	240 mg every 2 weeks⁺ <u>or</u> 480 mg every 4 weeks⁺	After completing 4 doses of combination therapy with YERVOY, administer as single agent until disease progression or unacceptable toxicity
Advanced renal cell carcinoma	na 240 mg every 2 weeks [†] OPDIVO: Until disease progression, unacceptable toxicity, or up to 2 years	
CABOMETYX [®] [cabozantinib])	Administer OPDIVO in combination with CABOMETYX 40 mg orally once daily without food	CABOMETYX: Until disease progression or unacceptable toxicity
	3 mg/kg every 3 weeks $^{\rm t}$ with YERVOY 1 mg/kg intravenously $^{\rm t}$	In combination with YERVOY for 4 doses
Microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) metastatic colorectal cancer	Adult patients and pediatric patients age 12 years and older and weighing 40 kg or more: 240 mg every 2 weeks [†] <u>Or</u> 480 mg every 4 weeks [†]	After completing 4 doses of combination therapy, administer as single agent until disease progression or
	Pediatric patients age 12 years and older and weighing less than 40 kg: 3 mg/kg every 2 weeks [†]	unacceptable toxicity
Gastric cancer, gastroesophageal junction cancer, or esophageal adenocarcinoma	240 mg every 2 weeks [†] with fluoropyrimidine- and platinum-containing chemotherapy every 2 weeks or 360 mg every 3 weeks [†] with fluoropyrimidine- and platinum-containing chemotherapy every 3 weeks	Until disease progression, unacceptable toxicity, or up to 2 years

No premedication required with OPDIVO and YERVOY. No premedication required with OPDIVO and CABOMETYX. Refer to the YERVOY Prescribing Information for recommended YERVOY dosage information. [†]30-minute intravenous infusion on the same day.

Recommended dosage² (cont'd)

Opdualag[™] (nivolumab and relatlimab-rmbw)

Indication	Recommended Opdualag dosage	Duration of therapy
Unresectable or metastatic melanoma	For adult patients and pediatric patients 12 years of age or older weighing at least 40 kg*: 480 mg nivolumab and 160 mg relatlimab every 4 weeks (30-minute intravenous infusion)	Until disease progression or unacceptable toxicity

No premedication required with Opdualag.

*The recommended dosage for pediatric patients 12 years of age or older who weigh less than 40 kg, and pediatric patients younger than 12 years of age has not been established.

Infusion-related reactions

Signs and symptoms may include^{1,2}:

Itching or rash

wheezing

- Shortness of breath or
- Fever
- Chills or shaking

Management considerations for infusion-related reactions^{1-3,10}

• Dizziness

- YERVOY should also be withheld or discontinued
- OPDIVO, OPDIVO + YERVOY, or Opdualag can cause severe infusion-related reactions
- Mild or moderate symptoms (Grade 1 or 2)*: Interrupt or slow the rate of infusion
- Severe or life-threatening symptoms (Grade 3 or 4)*: Permanently discontinue treatment

*In trials that evaluated OPDIVO as a single agent or in combination with YERVOY, toxicity was graded per NCI CTCAE V4. In a trial that evaluated Opdualag, toxicity was graded per NCI CTCAE V5.0.² CTCAE=Common Terminology Criteria for Adverse Events; NCI=National Cancer Institute.

OPDIVO SELECT IMPORTANT SAFETY INFORMATION

Infusion-Related Reactions

• OPDIVO and YERVOY can cause severe infusion-related reactions. Discontinue OPDIVO and YERVOY in patients with 2 weeks with YERVOY 1 mg/kg every 6 weeks, infusion-related reactions occurred in 12% (37/300) of patients.

Opdualag SELECT IMPORTANT SAFETY INFORMATION

Infusion-Related Reactions

received Opdualag as a 60-minute intravenous infusion, infusion-related reactions occurred in 7% (23/355) of patients.

Please see Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for OPDIVO, YERVOY, and Opdualag. Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.

- Flushing
- Feel like passing out
- Back or neck pain

When OPDIVO® (nivolumab) is administered in combination with YERVOY® (ipilimumab), if OPDIVO is withheld or discontinued,

severe (Grade 3) or life-threatening (Grade 4) infusion-related reactions. Interrupt or slow the rate of infusion in patients with mild (Grade 1) or moderate (Grade 2) infusion-related reactions. In patients receiving OPDIVO monotherapy as a 60-minute infusion, infusion-related reactions occurred in 6.4% (127/1994) of patients. In a separate trial in which patients received OPDIVO monotherapy as a 60-minute infusion or a 30-minute infusion, infusion-related reactions occurred in 2.2% (8/368) and 2.7% (10/369) of patients, respectively. Additionally, 0.5% (2/368) and 1.4% (5/369) of patients, respectively, experienced adverse reactions within 48 hours of infusion that led to dose delay, permanent discontinuation or withholding of OPDIVO. In melanoma patients receiving OPDIVO 1 mg/kg with YERVOY 3 mg/kg every 3 weeks, infusion-related reactions occurred in 2.5% (10/407) of patients. In HCC patients receiving OPDIVO 1 mg/kg with YERVOY 3 mg/kg every 3 weeks, infusion-related reactions occurred in 8% (4/49) of patients. In RCC patients receiving OPDIVO 3 mg/kg with YERVOY 1 mg/kg, infusion-related reactions occurred in 5.1% (28/547) of patients. In MSI-H/dMMR mCRC patients receiving OPDIVO 3 mg/kg with YERVOY 1 mg/kg. every 3 weeks, infusion-related reactions occurred in 4.2% (5/119) of patients. In MPM patients receiving OPDIVO 3 mg/kg every

 Opdualag can cause severe infusion-related reactions. Discontinue Opdualag in patients with severe or life-threatening infusionrelated reactions. Interrupt or slow the rate of infusion in patients with mild to moderate infusion-related reactions. In patients who

Severe and Fatal Immune-Mediated Adverse Reactions

- Immune-mediated adverse reactions listed herein may not include all possible severe and fatal immune-mediated adverse reactions.
- Immune-mediated adverse reactions, which may be severe or fatal, can occur in any organ system or tissue. While immune-mediated adverse reactions usually manifest during treatment, they can also occur after discontinuation of OPDIVO or YERVOY[®] (ipilimumab). Early identification and management are essential to ensure safe use of OPDIVO and YERVOY. Monitor for signs and symptoms that may be clinical manifestations of underlying immune-mediated adverse reactions. Evaluate clinical chemistries including liver enzymes, creatinine, adrenocorticotropic hormone (ACTH) level, and thyroid function at baseline and periodically during treatment with OPDIVO and before each dose of YERVOY. In cases of suspected immune-mediated adverse reactions, initiate appropriate workup to exclude alternative etiologies, including infection. Institute medical management promptly, including specialty consultation as appropriate.
- Withhold or permanently discontinue OPDIVO and YERVOY depending on severity (please see section 2 Dosage and Administration in the accompanying Full Prescribing Information). In general, if OPDIVO or YERVOY interruption or discontinuation is required, administer systemic corticosteroid therapy (1 to 2 mg/kg/day prednisone or equivalent) until improvement to Grade 1 or less. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month. Consider administration of other systemic immunosuppressants in patients whose immune-mediated adverse reactions are not controlled with corticosteroid therapy. Toxicity management guidelines for adverse reactions that do not necessarily require systemic steroids (e.g., endocrinopathies and dermatologic reactions) are discussed below.

Immune-Mediated Pneumonitis

- OPDIVO and YERVOY can cause immune-mediated pneumonitis. The incidence of pneumonitis is higher in patients who have received prior thoracic radiation. In patients receiving OPDIVO monotherapy, immune-mediated pneumonitis occurred in 3.1% (61/1994) of patients, including Grade 4 (<0.1%), Grade 3 (0.9%), and Grade 2 (2.1%). In patients receiving OPDIVO1mg/kg with YERVOY 3 mg/kg every 3 weeks, immune-mediated pneumonitis occurred in 7% (31/456) of patients, including Grade 4 (0.2%), Grade 3 (2.0%), and Grade 2 (4.4%). In patients receiving OPDIVO 3 mg/kg with YERVOY 1 mg/kg every 3 weeks, immune-mediated pneumonitis occurred in 3.9% (26/666) of patients, including Grade 3 (1.4%) and Grade 2 (2.6%). In NSCLC patients receiving OPDIVO 3 mg/kg every 2 weeks with YERVOY 1 mg/kg every 6 weeks, immune-mediated pneumonitis occurred in 9% (50/576) of patients, including Grade 4 (0.5%), Grade 3 (3.5%), and Grade 2 (4.0%). Four patients (0.7%) died due to pneumonitis.
- In Checkmate 205 and 039, pneumonitis, including interstitial lung disease, occurred in 6.0% (16/266) of patients receiving OPDIVO. Immune-mediated pneumonitis occurred in 4.9% (13/266) of patients receiving OPDIVO, including Grade 3 (n=1) and Grade 2 (n=12).

Immune-Mediated Colitis

 OPDIVO and YERVOY can cause immune-mediated colitis. which may be fatal. A common symptom included in the definition of colitis was diarrhea. Cytomegalovirus (CMV)

infection/reactivation has been reported in patients with corticosteroid-refractory immune-mediated colitis. In cases of corticosteroid-refractory colitis, consider repeating infectious workup to exclude alternative etiologies. In patients receiving OPDIVO monotherapy, immune-mediated colitis occurred in 2.9% (58/1994) of patients, including Grade 3 (1.7%) and Grade 2 (1%). In patients receiving OPDIVO 1 mg/kg with YERVOY 3 mg/kg every 3 weeks, immune-mediated colitis occurred in 25% (115/456) of patients, including Grade 4 (0.4%), Grade 3 (14%) and Grade 2 (8%). In patients receiving OPDIVO 3 mg/kg with YERVOY 1 mg/kg every 3 weeks, immune-mediated colitis occurred in 9% (60/666) of patients, including Grade 3 (4.4%) and Grade 2 (3.7%).

Immune-Mediated Hepatitis and Hepatotoxicity

- OPDIVO and YERVOY can cause immune-mediated hepatitis. In patients receiving OPDIVO monotherapy, immune-mediated hepatitis occurred in 1.8% (35/1994) of patients, including Grade 4 (0.2%), Grade 3 (1.3%), and Grade 2 (0.4%). In patients receiving OPDIVO1mg/kg with YERVOY 3 mg/kg every 3 weeks, immune-mediated hepatitis occurred in 15% (70/456) of patients, including Grade 4 (2.4%), Grade 3 (11%), and Grade 2 (1.8%). In patients receiving OPDIVO 3 mg/kg with YERVOY 1 mg/kg every 3 weeks, immune-mediated hepatitis occurred in 7% (48/666) of patients, including Grade 4 (1.2%), Grade 3 (4.9%), and Grade 2 (0.4%).
- OPDIVO in combination with cabozantinib can cause hepatic toxicity with higher frequencies of Grade 3 and 4 ALT and AST elevations compared to OPDIVO alone. Consider more frequent monitoring of liver enzymes as compared to when the drugs are administered as single agents. In patients receiving OPDIVO and cabozantinib, Grades 3 and 4 increased ALT or AST were seen in 11% of patients.

Immune-Mediated Endocrinopathies

- OPDIVO and YERVOY can cause primary or secondary adrenal insufficiency, immune-mediated hypophysitis, immune-mediated thyroid disorders, and Type 1 diabetes mellitus, which can present with diabetic ketoacidosis. Withhold OPDIVO and YERVOY depending on severity (please see section 2 Dosage and Administration in the accompanying Full Prescribing Information). For Grade 2 or higher adrenal insufficiency, initiate symptomatic treatment, including hormone replacement as clinically indicated. Hypophysitis can present with acute symptoms associated with mass effect such as headache, photophobia, or visual field defects. Hypophysitis can cause hypopituitarism; initiate hormone replacement as clinically indicated. Thyroiditis can present with or without endocrinopathy. Hypothyroidism can follow hyperthyroidism; initiate hormone replacement or medical management as clinically indicated. Monitor patients for hyperglycemia or other signs and symptoms of diabetes; initiate treatment with insulin as clinically indicated.
- In patients receiving OPDIVO monotherapy, adrenal insufficiency occurred in 1% (20/1994), including Grade 3 (0.4%) and Grade 2 (0.6%). In patients receiving OPDIVO 1 mg/kg with YERVOY 3 mg/kg every 3 weeks, adrenal insufficiency occurred in 8% (35/456), including Grade 4 (0.2%), Grade 3 (2.4%), and Grade 2 (4.2%). In patients receiving OPDIVO 3 mg/kg with YERVOY1mg/kg every 3 weeks, adrenal insufficiency occurred in 7% (48/666) of patients, including Grade 4 (0.3%). Grade 3 (2.5%), and Grade 2 (4.1%). In patients receiving OPDIVO and cabozantinib, adrenal insufficiency occurred in 4.7% (15/320) of patients, including Grade 3 (2.2%) and Grade 2 (1.9%).

- In patients receiving OPDIVO monotherapy, hypophysitis occurred in 0.6% (12/1994) of patients, including Grade 3 (0.2 and Grade 2 (0.3%). In patients receiving OPDIVO 1 mg/kg with YERVOY 3 mg/kg every 3 weeks, hypophysitis occurred in 9% (42/456), including Grade 3 (2.4%) and Grade 2 (6%). In patient receiving OPDIVO 3 mg/kg with YERVOY1 mg/kg every 3 weeks, hypophysitis occurred in 4.4% (29/666) of patients, including Grade 4 (0.3%), Grade 3 (2.4%), and Grade 2 (0.9%).
- In patients receiving OPDIVO monotherapy, thyroiditis occurr in 0.6% (12/1994) of patients, including Grade 2 (0.2%). In patients receiving OPDIVO 3 mg/kg with YERVOY 1 mg/kg every 3 weeks, thyroiditis occurred in 2.7% (22/666) of patier including Grade 3 (4.5%) and Grade 2 (2.2%).
- In patients receiving OPDIVO monotherapy, hyperthyroidism occurred in 2.7% (54/1994) of patients, including Grade 3 (<0.1%) and Grade 2 (1.2%). In patients receiving OPDIVO 1 mg/kg with YERVOY 3 mg/kg every 3 weeks, hyperthyroidi occurred in 9% (42/456) of patients, including Grade 3 (0.9%) and Grade 2 (4.2%). In patients receiving OPDIVO 3 mg/kg wi YERVOY 1 mg/kg every 3 weeks, hyperthyroidism occurred in 12% (80/666) of patients, including Grade 3 (0.6%) and Grade 2 (4.5%).
- In patients receiving OPDIVO monotherapy, hypothyroidism occurred in 8% (163/1994) of patients, including Grade 3 (0.2° and Grade 2 (4.8%). In patients receiving OPDIVO 1 mg/kg wi YERVOY 3 mg/kg every 3 weeks, hypothyroidism occurred in 20% (91/456) of patients, including Grade 3 (0.4%) and Grade 2 (11%). In patients receiving OPDIVO 3 mg/kg with YERVOY 1 mg/kg every 3 weeks, hypothyroidism occurred in 18% (122/666) of patients, including Grade 3 (0.6%) and Grade 2 (11%)
- In patients receiving OPDIVO monotherapy, diabetes occurred 0.9% (17/1994) of patients, including Grade 3 (0.4%) and Grade 2 (0.3%), and 2 cases of diabetic ketoacidosis. In patien receiving OPDIVO 3 mg/kg with YERVOY 1 mg/kg every 3 weeks, diabetes occurred in 2.7% (15/666) of patients, including Grade 4 (0.6%), Grade 3 (0.3%), and Grade 2 (0.9%).

Immune-Mediated Nephritis with Renal Dysfunction

 OPDIVO and YERVOY can cause immune-mediated nephritis. In patients receiving OPDIVO monotherapy, immune-mediate nephritis and renal dysfunction occurred in 1.2% (23/1994) of patients, including Grade 4 (<0.1%), Grade 3 (0.5%), and Grade 2 (0.6%). In patients receiving OPDIVO 3 mg/kg with YERVOY1 mg/kg every 3 weeks, immune-mediated nephritis with renal dysfunction occurred in 4.1% (27/666) of patients, including Grade 4 (0.6%), Grade 3 (1.1%), and Grade 2 (2.2%).

Immune-Mediated Dermatologic Adverse Reactions

- OPDIVO can cause immune-mediated rash or dermatitis. Exfoliative dermatitis, including Stevens-Johnson syndrome (SIS), toxic epidermal necrolysis (TEN), and drug rash with eosinophilia and systemic symptoms (DRESS) has occurred with PD-1/PD-L1 blocking antibodies. Topical emollients and/o topical corticosteroids may be adequate to treat mild to moderate nonexfoliative rashes.
- YERVOY can cause immune-mediated rash or dermatitis, including bullous and exfoliative dermatitis, SJS, TEN, and DRE Topical emollients and/or topical corticosteroids may be adequa to treat mild to moderate non-bullous/exfoliative rashes.

Please see additional Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for OPDIVO, YERVOY, and Opdualag. Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.

See Opdualag[™] (nivolumab and relatlimab-rmbw) Important Safety Information on pages 39-41.

%) th	 Withhold or permanently discontinue OPDIVO and YERVOY depending on severity (please see section 2 Dosage and Administration in the accompanying Full Prescribing Information).
its	 In patients receiving OPDIVO monotherapy, immune-mediated rash occurred in 9% (171/1994) of patients, including Grade 3 (1.1%) and Grade 2 (2.2%). In patients receiving OPDIVO 1 mg /kg with VERVOV 3 mg /kg every 3 weeks
ed nts,	immune-mediated rash occurred in 28% (127/456) of patients, including Grade 3 (4.8%) and Grade 2 (10%). In patients receiving OPDIVO 3 mg/kg with YERVOY 1 mg/kg every 3 weeks, immune-mediated rash occurred in 16% (108/666) of
	patients, including Grade 3 (3.5%) and Grade 2 (4.2%).
	The following clinically significant immune-mediated adverse
cm	reactions occurred at an incidence of <1% (unless otherwise
	OPDIVO in combination with YERVOY or were reported with the
th	use of other PD-1/PD-L1 blocking antibodies. Severe or fatal
	<i>cardiac/vascular:</i> myocarditis, pericarditis, vasculitis; <i>nervous</i> system: meningitis, encephalitis, myelitis and demyelination,
/_)	myasthenic syndrome/myasthenia gravis (including exacerbation). Guillain-Barré syndrome, nerve paresis
th	autoimmune neuropathy; ocular: uveitis, iritis, and other ocular
	to include increases in serum amylase and lipase levels,
	gastritis, duodenitis; <i>musculoskeletal and connective tissue:</i>
	sequelae including renal failure, arthritis, polymyalgia
d in	rheumatica; <i>endocrine:</i> hypoparathyroidism; <i>other (hematologic/ immune):</i> hemolytic anemia, aplastic anemia, hemophagocytic
ts	syndrome, histiocytic necrotizing lymphadenitis (Kikuchi
	lymphadenitis), sarcoidosis, immune thrombocytopenic purpura, solid organ transplant rejection.
	 In addition to the immune-mediated adverse reactions listed
	above, across clinical trials of YERVUY monotherapy or in combination with OPDIVO, the following clinically significant immune-mediated adverse reactions, some with fatal outcome.
ed	occurred in <1% of patients unless otherwise specified: <i>nervous system</i> : autoimmune neuropathy (2%), myasthenic syndrome/
	angiopathy, temporal arteritis; <i>ocular:</i> blepharitis, episcleritis,
•	orbital myositis, scleritis; <i>gastrointestinal:</i> pancreatitis (1.3%); <i>other (hematologic/immune):</i> conjunctivitis, cytopenias (2.5%), eosinophilia (2.1%), erythema multiforme, hypersensitivity
	 Some ocular IMAP cases can be associated with retinal
	detachment. Various grades of visual impairment, including blindness, can occur. If uveitis occurs in combination with
or	other immune-mediated adverse reactions, consider a Vogt-Koyanagi-Harada–like syndrome, which has been observed in patients receiving OPDIVO and YERVOY, as this may require treatment with systemic continestaroids to reduce
	the risk of permanent vision loss.
SS.	Infusion-Related Reactions
ale	OPDIVO and YERVOY can cause severe infusion-related

reactions. Discontinue OPDIVO and YERVOY in patients with

(continued on next page)

Infusion-Related Reactions (cont'd)

severe (Grade 3) or life-threatening (Grade 4) infusion-related reactions. Interrupt or slow the rate of infusion in patients with mild (Grade 1) or moderate (Grade 2) infusion-related reactions. In patients receiving OPDIVO monotherapy as a 60-minute infusion, infusion-related reactions occurred in 6.4% (127/1994) of patients. In a separate trial in which patients received OPDIVO monotherapy as a 60-minute infusion or a 30-minute infusion, infusion-related reactions occurred in 2.2% (8/368) and 2.7% (10/369) of patients, respectively. Additionally, 0.5% (2/368) and 1.4% (5/369) of patients, respectively, experienced adverse reactions within 48 hours of infusion that led to dose delay, permanent discontinuation or withholding of OPDIVO. In melanoma patients receiving OPDIVO 1 mg/kg with YERVOY[®] (ipilimumab) 3 mg/kg every 3 weeks, infusion-related reactions occurred in 2.5% (10/407) of patients. In HCC patients receiving OPDIVO 1 mg/kg with YERVOY 3 mg/kg every 3 weeks, infusion-related reactions occurred in 8% (4/49) of patients. In RCC patients receiving OPDIVO 3 mg/kg with YERVOY 1 mg/kg every 3 weeks, infusion-related reactions occurred in 5.1% (28/547) of patients. In MSI-H/dMMR mCRC patients receiving OPDIVO 3 mg/kg with YERVOY1 mg/kg every 3 weeks, infusion-related reactions occurred in 4.2% (5/119) of patients. In MPM patients receiving OPDIVO 3 mg/kg every 2 weeks with YERVOY 1 mg/kg every 6 weeks, infusion-related reactions occurred in 12% (37/300) of patients.

Complications of Allogeneic Hematopoietic Stem Cell Transplantation

- Fatal and other serious complications can occur in patients who receive allogeneic hematopoietic stem cell transplantation (HSCT) before or after being treated with OPDIVO or YERVOY. Transplant-related complications include hyperacute graftversus-host disease (GVHD), acute GVHD, chronic GVHD, hepatic veno-occlusive disease (VOD) after reduced intensity conditioning, and steroid-requiring febrile syndrome (without an identified infectious cause). These complications may occur despite intervening therapy between OPDIVO or YERVOY and allogeneic HSCT.
- Follow patients closely for evidence of transplant-related complications and intervene promptly. Consider the benefit versus risks of treatment with OPDIVO and YERVOY prior to or after an allogeneic HSCT.

Embryo-Fetal Toxicity

 Based on its mechanism of action and findings from animal studies, OPDIVO and YERVOY can cause fetal harm when administered to a pregnant woman. The effects of YERVOY are likely to be greater during the second and third trimesters of pregnancy. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with OPDIVO and YERVOY and for at least 5 months after the last dose

Increased Mortality in Patients with Multiple Myeloma when OPDIVO is Added to a Thalidomide Analogue and Dexamethasone

 In randomized clinical trials in patients with multiple myeloma, the addition of OPDIVO to a thalidomide analogue plus dexamethasone resulted in increased mortality. Treatment of patients with multiple myeloma with a PD-1 or PD-L1 blocking antibody in combination with a thalidomide analogue plus dexamethasone is not recommended outside of controlled clinical trials.

Lactation

There are no data on the presence of OPDIVO or YERVOY in

human milk, the effects on the breastfed child, or the effects on milk production. Because of the potential for serious adverse reactions in breastfed children, advise women not to breastfeed during treatment and for 5 months after the last dose.

Serious Adverse Reactions

• In Checkmate 037, serious adverse reactions occurred in 41% of patients receiving OPDIVO (n=268). Grade 3 and 4 adverse reactions occurred in 42% of patients receiving OPDIVO. The most frequent Grade 3 and 4 adverse drug reactions reported in 2% to <5% of patients receiving OPDIVO were abdominal pain, hyponatremia, increased aspartate aminotransferase, and increased lipase. In Checkmate 066, serious adverse reactions occurred in 36% of patients receiving OPDIVO (n=206). Grade 3 and 4 adverse reactions occurred in 41% of patients receiving OPDIVO. The most frequent Grade 3 and 4 adverse reactions reported in ≥2% of patients receiving OPDIVO were gammaglutamyltransferase increase (3.9%) and diarrhea (3.4%). In Checkmate 067, serious adverse reactions (74% and 44%), adverse reactions leading to permanent discontinuation (47% and 18%) or to dosing delays (58% and 36%), and Grade 3 or 4 adverse reactions (72% and 51%) all occurred more frequently in the OPDIVO plus YERVOY arm (n=313) relative to the OPDIVO arm (n=313). The most frequent (\geq 10%) serious adverse reactions in the OPDIVO plus YERVOY arm and the OPDIVO arm, respectively, were diarrhea (13% and 2.2%), colitis (10% and 1.9%), and pyrexia (10% and 1.0%). In Checkmate 238, serious adverse reactions occurred in 18% of patients receiving OPDIVO (n=452). Grade 3 or 4 adverse reactions occurred in 25% of OPDIVO-treated patients (n=452). The most frequent Grade 3 and 4 adverse reactions reported in $\geq 2\%$ of OPDIVO-treated patients were diarrhea and increased lipase and amylase. In Checkmate 227, serious adverse reactions occurred in 58% of patients (n=576). The most frequent (\geq 2%) serious adverse reactions were pneumonia, diarrhea/colitis, pneumonitis, hepatitis, pulmonary embolism, adrenal insufficiency, and hypophysitis. Fatal adverse reactions occurred in 1.7% of patients; these included events of pneumonitis (4 patients), myocarditis, acute kidney injury, shock, hyperglycemia, multisystem organ failure, and renal failure. In Checkmate 9LA, serious adverse reactions occurred in 57% of patients (n=358). The most frequent (>2%) serious adverse reactions were pneumonia, diarrhea, febrile neutropenia, anemia, acute kidney injury, musculoskeletal pain, dyspnea, pneumonitis, and respiratory failure. Fatal adverse reactions occurred in 7 (2%) patients, and included hepatic toxicity, acute renal failure, sepsis, pneumonitis, diarrhea with hypokalemia, and massive hemoptysis in the setting of thrombocytopenia. In Checkmate 017 and 057, serious adverse reactions occurred in 46% of patients receiving OPDIVO (n=418). The most frequent serious adverse reactions reported in $\geq 2\%$ of patients receiving OPDIVO were pneumonia, pulmonary embolism, dyspnea, pyrexia, pleural effusion, pneumonitis, and respiratory failure. In Checkmate 057, fatal adverse reactions occurred; these included events of infection (7 patients, including one case of Pneumocystis jirovecii pneumonia), pulmonary embolism (4 patients), and limbic encephalitis (1 patient). In Checkmate 743, serious adverse reactions occurred in 54% of patients receiving OPDIVO plus YERVOY. The most frequent serious adverse reactions reported in \geq 2% of patients were pneumonia, pyrexia, diarrhea, pneumonitis, pleural effusion, dyspnea, acute kidney injury, infusion-related reaction, musculoskeletal pain, and pulmonary embolism. Fatal adverse reactions occurred in 4 (1.3%) patients and included pneumonitis, acute heart failure, sepsis, and encephalitis. In Checkmate 214, serious adverse reactions occurred in 59% of patients receiving OPDIVO plus

YERVOY (n=547). The most frequent serious adverse reactions reported in $\geq 2\%$ of patients were diarrhea, pyrexia, pneumonia pneumonitis, hypophysitis, acute kidney injury, dyspnea, adrena insufficiency, and colitis. In Checkmate 9ER, serious adverse reactions occurred in 48% of patients receiving OPDIVO and cabozantinib (n=320). The most frequent serious adverse reactions reported in $\geq 2\%$ of patients were diarrhea, pneumonia, pneumonitis, pulmonary embolism, urinary tract infection, and hyponatremia. Fatal intestinal perforations occurred in 3 (0.9%) patients. In Checkmate 025, serious adverse reactions occurred in 47% of patients receiving OPDIV (n=406). The most frequent serious adverse reactions reported \geq 2% of patients were acute kidney injury, pleural effusion, pneumonia, diarrhea, and hypercalcemia. In Checkmate 205 and 039, adverse reactions leading to discontinuation occurred in 7^c and dose delays due to adverse reactions occurred in 34% of patients (n=266). Serious adverse reactions occurred in 26% of patients. The most frequent serious adverse reactions reported \geq 1% of patients were pneumonia, infusion-related reaction, pyrexia, colitis or diarrhea, pleural effusion, pneumonitis, and rash. Eleven patients died from causes other than disease progression: 3 from adverse reactions within 30 days of the las OPDIVO dose, 2 from infection 8 to 9 months after completing OPDIVO, and 6 from complications of allogeneic HSCT. In Checkmate 141, serious adverse reactions occurred in 49% of patients receiving OPDIVO (n=236). The most frequent serious adverse reactions reported in $\geq 2\%$ of patients receiving OPDIV were pneumonia, dyspnea, respiratory failure, respiratory tract infection, and sepsis. In Checkmate 275, serious adverse reactions occurred in 54% of patients receiving OPDIVO (n=270). The most frequent serious adverse reactions reported in $\geq 2\%$ of patients receiving OPDIVO were urinary tract infection, sepsis, diarrhea, small intestine obstruction, and general physical health deterioration. In Checkmate 274, serious adverse reactions occurred in 30% of patients receiving OPDIVC (n=351). The most frequent serious adverse reaction reported in ≥2% of patients receiving OPDIVO was urinary tract infection. Fatal adverse reactions occurred in 1% of patients; these included events of pneumonitis (0.6%). In Checkmate 142 in MSI-H/dMMR mCRC patients receiving OPDIVO with YERVOY (n=119), serious adverse reactions occurred in 47% of patients. The most frequent serious adverse reactions reported in $\geq 2\%$ of patients were colitis/diarrhea, hepatic events, abdominal pain, acute kidney injury, pyrexia, and dehydration. In Checkmate 040, serious adverse reactions occurred in 59% of patients receiving OPDIVO with YERVOY (n=49). Serious adverse reactions reported in $\geq 4\%$ of patients were pyrexia, diarrhea, anemia, increased AST, adrenal insufficiency, ascites, esophageal varices hemorrhage, hyponatremia, increased blood bilirubin, and pneumonitis. In Attraction-3, serious adverse reactions occurred in 38% of patients receiving OPDIVO (n=209) Serious adverse reactions reported in $\geq 2\%$ of patients who received OPDIVO were pneumonia, esophageal fistula, interstiti lung disease, and pyrexia. The following fatal adverse reactions occurred in patients who received OPDIVO: interstitial lung disease or pneumonitis (1.4%) pneumonia (1.0%), septic shock (0.5%), esophageal

fistula (0.5%), gastrointestinal hemorrhage (0.5%), pulmonary embolism (0.5%), and sudden death (0.5%). In Checkmate 577, serious adverse reactions occurred in 33% of patients receiving OPDIVO (n=532). A serious adverse reaction reported in \geq 2% of

Please see additional Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for OPDIVO, YERVOY, and Opdualag. Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.

See Opdualag[™] (nivolumab and relatlimab-rmbw) Important Safety Information on pages 39-41.

al) in 6	patients who received OPDIVO was pneumonitis. A fatal reaction of myocardial infarction occurred in one patient who received OPDIVO. In Checkmate 649, serious adverse reactions occurred in 52% of patients treated with OPDIVO in combination with chemotherapy (n=782). The most frequent serious adverse reactions reported in ≥2% of patients treated with OPDIVO in combination with chemotherapy were vomiting (3.7%), pneumonia (3.6%), anemia (3.6%), pyrexia (2.8%), diarrhea (2.7%), febrile neutropenia (2.6%), and pneumonitis (2.4%). Fatal adverse reactions occurred in 16 (2.0%) patients who were treated with OPDIVO in combination with chemotherapy; these included pneumonitis (4 patients), febrile neutropenia (2 patients), stroke (2 patients), gastrointestinal toxicity, intestinal mucositis, septic shock, pneumonia, infection, gastrointestinal bleeding, mesenteric vessel thrombosis. and disseminated intravascular coagulation.
ſ	Common Adverse Peactions
l in	In Checkmate 037, the most common adverse reaction (\geq 20%) reported with OPDIVO (n=268) was rash (21%). In Checkmate
t	with OPDIVO (n=206) vs dacarbazine (n=205) were fatigue (49% vs 39%), musculoskeletal pain (32% vs 25%),
	22% vs 12%), and profitus (23% vs 12%). In checkmate 067, the most common ($\ge 20\%$) adverse reactions in the 0PDIVO plus YERVOY arm (n=313) were fatigue (62%), disputse (52%), and (52%).
)	nuirinea (54%), rasii (53%), nausea (44%), pyrexia (40%), nuiritus (39%), musculoskeletal nain (32%), vomiting (31%)
	decreased appetite (29%), cough (27%), headache (26%),
	dyspnea (24%), upper respiratory tract infection (23%),
	arthraigia (21%), and increased transaminases (25%). In Checkmate 067 the most common (>20%) adverse reactions in
	the OPDIVO arm (n=313) were fatigue (59%), rash (40%),
5	musculoskeletal pain (42%), diarrhea (36%), nausea (30%),
)	cough (28%), pruritus (27%), upper respiratory tract
l	constination (21%), arthralgia (21%), and vomiting (20%).
	In Checkmate 238, the most common adverse reactions (≥20%)
	reported in OPDIVO-treated patients (n=452) vs ipilimumab-
	treated patients (n=453) were fatigue (5/% vs 55%), diarrhea (37% vs 55%) rash (35% vs 47%) musculoskeletal
	pain (32% vs 27%), pruritus (28% vs 37%), headache (23% vs 31%).
	nausea (23% vs 28%), upper respiratory infection (22% vs 15%),
	and abdominal pain (21% vs 23%). The most common immune-
	and henatitis (3%). In Checkmate 227 the most common (>20%).
	adverse reactions were fatigue (44%), rash (34%), decreased
	appetite (31%), musculoskeletal pain (27%), diarrhea/colitis (26%),
	dyspnea (26%), cough (23%), hepatitis (21%), nausea (21%), and
`	adverse reactions were fatigue (49%), musculoskeletal
).	pain (39%), nausea (32%), diarrhea (31%), rash (30%),
ial	decreased appetite (28%), constipation (21%), and
	prufilus (21%). III checkfildle 017 and 057, the most common adverse reactions (>20%) in natients receiving $OPDIVO (n-418)$
	were fatigue, musculoskeletal pain, cough, dyspnea, and
	decreased appetite. In Checkmate 743, the most common
	adverse reactions (\geq 20%) in patients receiving OPDIVO plus
	rash (34%), djarrhea (32%), dysnnea (27%), nausea (24%)
	decreased appetite (24%), cough (23%), and pruritus (21%).
	(application of a second se
	(continuea on next page)

OPDIVO® (nivolumab) Important Safety Information (cont'd)

Common Adverse Reactions (cont'd)

In Checkmate 214, the most common adverse reactions (>20%) reported in patients treated with OPDIVO plus YERVOY (n=547) were fatigue (58%), rash (39%), diarrhea (38%), musculoskeletal pain (37%), pruritus (33%), nausea (30%), cough (28%), pyrexia (25%), arthralgia (23%), decreased appetite (21%), dyspnea (20%), and vomiting (20%). In Checkmate 9ER, the most common adverse reactions (\geq 20%) in patients receiving OPDIVO and cabozantinib (n=320) were diarrhea (64%), fatigue (51%), hepatotoxicity (44%), palmarplantar erythrodysaesthesia syndrome (40%), stomatitis (37%), rash (36%), hypertension (36%), hypothyroidism (34%), musculoskeletal pain (33%), decreased appetite (28%), nausea (27%), dysgeusia (24%), abdominal pain (22%), cough (20%) and upper respiratory tract infection (20%) In Checkmate 025, the most common adverse reactions (\geq 20%) reported in patients receiving OPDIVO (n=406) vs everolimus (n=397) were fatigue (56% vs 57%). cough (34% vs 38%), nausea (28% vs 29%), rash (28% vs 36%), dyspnea (27% vs 31%), diarrhea (25% vs 32%) constipation (23% vs 18%), decreased appetite (23% vs 30%), back pain (21% vs 16%), and arthralgia (20% vs 14%). In Checkmate 205 and 039, the most common adverse reactions (\geq 20%) reported in patients receiving OPDIVO (n=266) were upper respiratory tract infection (44%), fatigue (39%), cough (36%), diarrhea (33%), pyrexia (29%), musculoskeletal pain (26%), rash (24%), nausea (20%) and pruritus (20%). In Checkmate 141, the most common adverse reactions (≥10%) in patients receiving OPDIVO (n=236) were cough (14%) and dyspnea (14%) at a higher incidence than investigator's choice. In Checkmate 275, the most common adverse reactions (\geq 20%) reported in patients receiving OPDIVO (n=270) were fatigue (46%) musculoskeletal pain (30%), nausea (22%), and decreased appetite (22%). In Checkmate 274, the most common adverse reactions (\geq 20%) reported in patients receiving OPDIVO (n=351) were rash (36%), fatigue (36%), diarrhea (30%), pruritus (30%) musculoskeletal pain (28%), and urinary tract infection (22%). In Checkmate 142 in MSI-H/dMMR mCRC patients receiving OPDIVO as a single agent (n=74), the most common adverse reactions (≥20%) were fatigue (54%), diarrhea (43%) abdominal pain (34%), nausea (34%), vomiting (28%), musculoskeletal pain (28%), cough (26%), pyrexia (24%), rash (23%), constipation (20%), and upper respiratory tract infection (20%). In Checkmate 142 in MSI-H/dMMR mCRC patients receiving OPDIVO with YERVOY® (ipilimumab) (n=119) the most common adverse reactions ($\geq 20\%$) were fatigue (49%) diarrhea (45%), pyrexia (36%), musculoskeletal pain (36%), abdominal pain (30%), pruritus (28%), nausea (26%), rash (25%) decreased appetite (20%), and vomiting (20%). In Checkmate 040, the most common adverse reactions (\geq 20%) in patients receiving OPDIVO with YERVOY (n=49), were rash (53%), pruritus (53%), musculoskeletal pain (41%), diarrhea (39%), cough (37%), decreased appetite (35%), fatigue (27%), pyrexia (27%), abdominal pain (22%), headache (22%), nausea (20%), dizziness (20%), hypothyroidism (20%), and weight decreased (20%). In Attraction-3, the most common adverse reactions (\geq 20%) in OPDIVO-treated patients (n=209) were rash (22%) and decreased appetite (21%). In Checkmate 577, the most common adverse reactions (\geq 20%) in patients receiving OPDIVO (n=532) were fatigue (34%), diarrhea (29%), nausea (23%), rash (21%), musculoskeletal pain (21%), and

cough (20%). In Checkmate 649, the most common adverse reactions (≥20%) in patients treated with OPDIVO in combination with chemotherapy (n=782) were peripheral neuropathy (53%), nausea (48%), fatigue (44%), diarrhea (39%). vomiting (31%), decreased appetite (29%), abdominal pain (27%), constipation (25%), and musculoskeletal pain (20%).

Clinical Trials and Patient Populations

- **Checkmate 037**–previously treated metastatic melanoma
- Checkmate 066-previously untreated metastatic melanoma
- Checkmate 067–previously untreated metastatic melanoma, as a single agent or in combination with YERVOY
- Checkmate 238-adjuvant treatment of melanoma
- Checkmate 227–previously untreated metastatic non-small cell lung cancer, in combination with YERVOY
- **Checkmate 9LA**–previously untreated recurrent or metastatic non-small cell lung cancer in combination with YERVOY and 2 cycles of platinum-doublet chemotherapy by histology
- Checkmate 017-second-line treatment of metastatic squamous non-small cell lung cancer
- Checkmate 057-second-line treatment of metastatic nonsquamous non-small cell lung cancer
- **Checkmate 743**–previously untreated unresectable malignant pleural mesothelioma, in combination with YERVOY
- **Checkmate 214**–previously untreated renal cell carcinoma, in combination with YERVOY
- Checkmate 9ER-previously untreated renal cell carcinoma, in combination with cabozantinib
- Checkmate 025–previously treated renal cell carcinoma
- **Checkmate 205/039**–classical Hodgkin lymphoma
- Checkmate 141-recurrent or metastatic squamous cell carcinoma of the head and neck
- Checkmate 275–previously treated advanced or metastatic urothelial carcinoma
- Checkmate 274-adjuvant treatment of urothelial carcinoma
- Checkmate 142–MSI-H or dMMR metastatic colorectal cancer, as a single agent or in combination with YERVOY
- Checkmate 040-hepatocellular carcinoma, in combination with YERVOY
- Attraction-3-esophageal squamous cell carcinoma

Checkmate 577–adjuvant treatment of esophageal or gastroesophageal junction cancer

Checkmate 649–previously untreated advanced or metastatic gastric or gastroesophageal junction or esophageal adenocarcinoma

Opdualag[™] (nivolumab and relatlimab-rmbw) **Important Safety Information**

Severe and Fatal Immune-Mediated Adverse Reactions

- Immune-mediated adverse reactions (IMARs) listed herein may not include all possible severe and fatal immune-mediated adverse reactions.
- IMARs which may be severe or fatal, can occur in any organ Immune-mediated hepatitis occurred in 6% (20/355) of patients system or tissue. IMARs can occur at any time after starting receiving Opdualag, including Grade 4 (0.6%), Grade 3 (3.4%), treatment with a LAG-3 and PD-1/PD-L1 blocking antibodies. and Grade 2 (1.4%) adverse reactions. Hepatitis led to permanent While IMARs usually manifest during treatment, they can also discontinuation of Opdualag in 1.7% and withholding of Opdualag occur after discontinuation of Opdualag. Early identification in 2.3% of patients. and management of IMARs are essential to ensure safe use. Immune-Mediated Endocrinopathies Monitor patients closely for symptoms and signs that may be clinical manifestations of underlying IMARs. Evaluate Opdualag can cause primary or secondary adrenal insufficiency, clinical chemistries including liver enzymes, creatinine, hypophysitis, thyroid disorders, and Type 1 diabetes mellitus, and thyroid function at baseline and periodically during which can be present with diabetic ketoacidosis. Withhold treatment. In cases of suspected IMARs, initiate appropriate or permanently discontinue Opdualag depending on severity workup to exclude alternative etiologies, including infection. (please see section 2 Dosage and Administration in the Institute medical management promptly, including specialty accompanying Full Prescribing Information). consultation as appropriate.
- Withhold or permanently discontinue Opdualag depending on severity (please see section 2 Dosage and Administration in the accompanying Full Prescribing Information). In general, if Opdualag requires interruption or discontinuation, administer systemic corticosteroid therapy (1 to 2 mg/kg/day prednisone or equivalent) until improvement to Grade 1 or less. Upon improvement to Grade 1 or less, initiate corticosteroid taper and continue to taper over at least 1 month. Consider administration of other systemic immunosuppressants in patients whose IMARs are not controlled with corticosteroid therapy. Toxicity management guidelines for adverse reactions that do not necessarily require systemic steroids (e.g., endocrinopathies and dermatologic reactions) are discussed below.

Immune-Mediated Pneumonitis

 Opdualag can cause immune-mediated pneumonitis, which may be fatal. In patients treated with other PD-1/PD-L1 blocking antibodies, the incidence of pneumonitis is higher in patients who have received prior thoracic radiation. Immunemediated pneumonitis occurred in 3.7% (13/355) of patients receiving Opdualag, including Grade 3 (0.6%), and Grade 2 (2.3%) adverse reactions. Pneumonitis led to permanent discontinuation of Opdualag in 0.8% and withholding of Opdualag in 1.4% of patients.

Immune-Mediated Colitis

- Opdualag can cause immune-mediated colitis, defined as requiring use of corticosteroids and no clear alternate etiology. A common symptom included in the definition of colitis was diarrhea. Cytomegalovirus infection/reactivation has been reported in patients with corticosteroid-refractory immunemediated colitis. In cases of corticosteroid-refractory colitis, consider repeating infectious workup to exclude alternative etiologies.
- Immune-mediated diarrhea or colitis occurred in 7% (24/355) of patients receiving Opdualag, including Grade 3 (1.1%) and Grade 2 (4.5%) adverse reactions. Colitis led to permanent discontinuation of Opdualag in 2% and withholding of Opdualag in 2.8% of patients

Please see additional Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for OPDIVO, YERVOY, and Opdualag. Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.

Immune-Mediated Hepatitis

 Opdualag can cause immune-mediated hepatitis, defined as requiring the use of corticosteroids and no clear alternate etiology.

- For Grade 2 or higher adrenal insufficiency, initiate symptomatic treatment, including hormone replacement as clinically indicated In patients receiving Opdualag, adrenal insufficiency occurred in 4.2% (15/355) of patients receiving Opdualag, including Grade 3 (1.4%) and Grade 2 (2.5%) adverse reactions. Adrenal insufficiency led to permanent discontinuation of Opdualag in 1.1% and withholding of Opdualag in 0.8% of patients.
- Hypophysitis can present with acute symptoms associated with mass effect such as headache, photophobia, or visual field defects. Hypophysitis can cause hypopituitarism; initiate hormone replacement as clinically indicated. Hypophysitis occurred in 2.5% (9/355) of patients receiving Opdualag, including Grade 3 (0.3%) and Grade 2 (1.4%) adverse reactions. Hypophysitis led to permanent discontinuation of Opdualag in 0.3% and withholding of Opdualag in 0.6% of patients.
- Thyroiditis can present with or without endocrinopathy. Hypothyroidism can follow hyperthyroidism; initiate hormone replacement or medical management as clinically indicated. Thyroiditis occurred in 2.8% (10/355) of patients receiving Opdualag, including Grade 2 (1.1%) adverse reactions. Thyroiditis did not lead to permanent discontinuation of Opdualag. Thyroiditis led to withholding of Opdualag in 0.3% of patients. Hyperthyroidism occurred in 6% (22/355) of patients receiving Opdualag, including Grade 2 (1.4%) adverse reactions. Hyperthyroidism did not lead to permanent discontinuation of Opdualag. Hyperthyroidism led to withholding of Opdualag in 0.3% of patients. Hypothyroidism occurred in 17% (59/355) of patients receiving Opdualag, including Grade 2 (11%) adverse reactions. Hypothyroidism led to the permanent discontinuation of Opdualag in 0.3% and withholding of Opdualag in 2.5% of patients.
- Monitor patients for hyperglycemia or other signs and symptoms of diabetes; initiate treatment with insulin as clinically indicated. Diabetes occurred in 0.3% (1/355) of patients receiving Opdualag, a Grade 3 (0.3%) adverse reaction, and no cases of diabetic ketoacidosis. Diabetes did not lead to the permanent discontinuation or withholding of Opdualag in any patient.

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Opdualag[™] (nivolumab and relatlimab-rmbw) Important Safety Information (cont'd)

Severe and Fatal Immune-Mediated Adverse Reactions (cont'd)

Immune-Mediated Nephritis with Renal Dysfunction

- Opdualag can cause immune-mediated nephritis, which is defined as requiring use of steroids and no clear etiology. In patients receiving Opdualag, immune-mediated nephritis and renal dysfunction occurred in 2% (7/355) of patients, including Grade 3 (1.1%) and Grade 2 (0.8%) adverse reactions. Immunemediated nephritis and renal dysfunction led to permanent discontinuation of Opdualag in 0.8% and withholding of Opdualag in 0.6% of patients.
- Withhold or permanently discontinue Opdualag depending on severity (please see section 2 Dosage and Administration in the accompanying Full Prescribing Information).

Immune-Mediated Dermatologic Adverse Reactions

- Opdualag can cause immune-mediated rash or dermatitis, defined as requiring use of steroids and no clear alternate etiology. Exfoliative dermatitis, including Stevens-Johnson syndrome, toxic epidermal necrolysis, and Drug Rash with eosinophilia and systemic symptoms has occurred with PD-1/L-1 blocking antibodies. Topical emollients and/or topical corticosteroids may be adequate to treat mild to moderate non-exfoliative rashes.
- Withhold or permanently discontinue Opdualag depending on severity (please see section 2 Dosage and Administration in the accompanying Full Prescribing Information).
- Immune-mediated rash occurred in 9% (33/355) of patients, including Grade 3 (0.6%) and Grade 2 (3.4%) adverse reactions. Immune-mediated rash did not lead to permanent discontinuation of Opdualag. Immune-mediated rash led to withholding of Opdualag in 1.4% of patients.

Immune-Mediated Myocarditis

- Opdualag can cause immune-mediated myocarditis, which is defined as requiring use of steroids and no clear alternate etiology. The diagnosis of immune-mediated myocarditis requires a high index of suspicion. Patients with cardiac or cardio-pulmonary symptoms should be assessed for potential myocarditis. If myocarditis is suspected, withhold dose, promptly initiate high dose steroids (prednisone or methylprednisolone 1 to 2 mg/kg/day) and promptly arrange cardiology consultation with diagnostic workup. If clinically confirmed, permanently discontinue Opdualag for Grade 2-4 myocarditis.
- Myocarditis occurred in 1.7% (6/355) of patients receiving Opdualag, including Grade 3 (0.6%), and Grade 2 (1.1%) adverse reactions. Myocarditis led to permanent discontinuation of Opdualag in 1.7% of patients.

Other Immune-Mediated Adverse Reactions

• The following clinically significant IMARs occurred at an incidence of <1% (unless otherwise noted) in patients who received Opdualag or were reported with the use of other PD-1/PD-L1 blocking antibodies. Severe or fatal cases have been reported for some of these adverse reactions: *Cardiac/Vascular*: pericarditis, vasculitis: *Nervous System*: meningitis, encephalitis, myelitis and demyelination,

myasthenic syndrome/myasthenia gravis (including exacerbation), Guillain-Barré syndrome, nerve paresis, autoimmune neuropathy; Ocular: uveitis, iritis, and other ocular inflammatory toxicities can occur. Some cases can be associated with retinal detachment. Various grades of visual impairment, including blindness, can occur. If uveitis occurs in combination with other IMARs, consider a Vogt-Kovanagi-Harada-like syndrome, as this may require treatment with systemic steroids to reduce the risk of permanent vision loss; Gastrointestinal: pancreatitis including increases in serum amylase and lipase levels, gastritis, duodenitis; Musculoskeletal and Connective Tissue: myositis/ polymyositis, rhabdomyolysis (and associated sequelae including renal failure), arthritis, polymyalgia rheumatica; Endocrine: hypoparathyroidism; Other (Hematologic/Immune): hemolytic anemia, aplastic anemia, hemophagocytic lymphohistiocytosis, systemic inflammatory response syndrome, histiocytic necrotizing lymphadenitis (Kikuchi lymphadenitis), sarcoidosis, immune thrombocytopenic purpura, solid organ transplant rejection.

Infusion-Related Reactions

• Opdualag can cause severe infusion-related reactions. Discontinue Opdualag in patients with severe or life-threatening infusion-related reactions. Interrupt or slow the rate of infusion in patients with mild to moderate infusion-related reactions. In patients who received Opdualag as a 60-minute intravenous infusion. infusion-related reactions occurred in 7% (23/355) of patients.

Complications of Allogeneic Hematopoietic Stem Cell Transplantation (HSCT)

- Fatal and other serious complications can occur in patients who receive allogeneic hematopoietic stem cell transplantation (HSCT) before or after being treated with a PD-1/PD-L1 receptor blocking antibody. Transplant-related complications include hyperacute graft-versus-host disease (GVHD), acute GVHD, chronic GVHD, hepatic veno-occlusive disease after reduced intensity conditioning, and steroid-requiring febrile syndrome (without an identified infectious cause). These complications may occur despite intervening therapy between PD-1/PD-L1 blockade and allogeneic HSCT.
- Follow patients closely for evidence of transplant-related complications and intervene promptly. Consider the benefit versus risks of treatment with a PD-1/PD-L1 receptor blocking antibody prior to or after an allogeneic HSCT.

Embryo-Fetal Toxicity

 Based on its mechanism of action and data from animal studies. Opdualag can cause fetal harm when administered to a pregnant woman. Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with Opdualag for at least 5 months after the last dose of Opdualag.

Please see Important Safety Information for OPDIVO® (nivolumab) and YERVOY® (ipilimumab) on pages 34–38 and for Opdualag on pages 39-41, and U.S. Full Prescribing Information for OPDIVO, YERVOY, and Opdualag. Please refer to the end of the

Important Safety Information for a brief description of the patient populations studied in the clinical trials.

Lactation

 There are no data on the presence of Opdualag in human milk, the effects on the breastfed child, or the effect on milk production. Because nivolumab and relatlimab may be excreted in human milk and because of the potential for serious adverse reactions in a breastfed child, advise patients not to breastfeed during treatment with Opdualag and for at least 5 months after the last dose.

Serious Adverse Reactions

 In Relativity-047, fatal adverse reaction occurred in 3 (0.8%) patients who were treated with Opdualag; these included hemophagocytic lymphohistiocytosis, acute edema of the lung, and pneumonitis. Serious adverse reactions occurred in 36% of patients treated with Opdualag. The most frequent serious adverse reactions reported in $\geq 1\%$ of patients treated with Opdualag were adrenal insufficiency (1.4%), anemia (1.4%), colitis (1.4%), pneumonia (1.4%), acute myocardial infarction (1.1%), back pain (1.1%), diarrhea (1.1%), myocarditis (1.1%), and pneumonitis (1.1%).

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Common Adverse Reactions

- The most common adverse reactions reported in ≥20% of the patients treated with Opdualag were musculoskeletal pain (45%), fatigue (39%), rash (28%), pruritus (25%), and diarrhea (24%).
- The most common laboratory abnormalities that occurred in \geq 20% of patients treated with Opdualag were decreased hemoglobin (37%), decreased lymphocytes (32%), increased AST (30%), increased ALT (26%), and decreased sodium (24%).
- Please see U.S. Full Prescribing Information for Opdualag.

Bristol Myers Squibb is dedicated to offering useful resources for you and your patients



1-855-OPDUALAG

Responses provided between 8:00 AM and 8:00 PM ET, Monday-Friday

For healthcare professionals

The following resources are available to download at www.OPDIVOpatientmanagement.com



Patient Monitoring Checklist

A tool to help nurses identify the signs and symptoms of immune-mediated adverse reactions (IMARs) in patients receiving OPDIVO[®] (nivolumab), OPDIVO + YERVOY[®] (ipilimumab), or Opdualag[™] (nivolumab and relatlimab-rmbw). Contacting the patient and reviewing this checklist once weekly is recommended.



The OPDIVO Safety Tool

A quick reference for the IMARs associated with OPDIVO treatment. You may access this app from your cellular phone, tablet, or computer.

For patients and caregivers

The following resources are available to download at www.OPDIVO.com



Resources for personalized assistance

A patient support program designed to help patients and their caregivers better understand their therapy, including live support with a care counselor for patients who have been prescribed OPDIVO, OPDIVO + YERVOY, or Opdualag. Available at **www.OPDIVOwithyou.com** and **www.OpdualagWithYou.com**

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Patient Pocket Guide

Patient resource containing OPDIVO, OPDIVO + YERVOY, and Opdualag IMAR symptoms and healthcare provider contact information.

Please see Important Safety Information for OPDIVO and YERVOY on pages 34–38 and for Opdualag on pages 39–41, and U.S. Full Prescribing Information for <u>OPDIVO</u>, <u>YERVOY</u>, and <u>Opdualag</u>. **Please refer to the end of the Important Safety Information for a brief description of the patient populations studied in the clinical trials.**



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