

Federal Employee Program.

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5.21.053

Section: Prescription Drugs Effective Date: October 1, 2024

Subsection: Antineoplastic Agents Original Policy Date: January 16, 2015

Subject: Opdivo Page: 1 of 14

Last Review Date: September 6, 2024

Opdivo

Description

Opdivo (nivolumab)

Background

Opdivo (nivolumab) is a monoclonal antibody indicated for the treatment of patients with melanoma, non-small cell lung cancer (NSCLC), malignant pleural mesothelioma, renal cell carcinoma (RCC), hepatocellular carcinoma (HCC), classical Hodgkin lymphoma (cHL), squamous cell carcinoma of the head and neck (SCCHN), urothelial carcinoma, colorectal cancer, esophageal cancer, gastric cancer, gastroesophageal junction cancer, and esophageal adenocarcinoma. Opdivo works by binding to the programmed cell death-1 (PD-1) receptor, and blocking its interaction with PD-1 ligands, PD-L1 and PD-L2. This interaction releases the inhibitory effects of PD-1 pathway-mediated inhibition of the immune response, including the anti-tumor immune response, resulting in decreased tumor growth (1).

Regulatory Status

FDA-approved indications: Opdivo is a human programmed death receptor-1 (PD-1) blocking antibody indicated for the treatment of patients with: (1)

- 1. Melanoma
 - a. Unresectable or metastatic melanoma, as a single agent or in combination with ipilimumab
 - Adjuvant treatment of patients with completely resected Stage IIB, Stage IIC,
 Stage III, or Stage IV melanoma
- 2. Non-Small Cell Lung Cancer (NSCLC)
 - a. Resectable (tumors ≥4 cm or node positive) NSCLC in the neoadjuvant setting, in combination with platinum-doublet chemotherapy

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b. 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, as first-line treatment in combination with ipilimumab

- Metastatic or recurrent NSCLC with no EGFR or ALK genomic tumor aberrations as first-line treatment, in combination with ipilimumab and 2 cycles of platinumdoublet chemotherapy
- d. Metastatic NSCLC and progression on or after platinum-based chemotherapy. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on an FDA-approved therapy for these aberrations prior to receiving Opdivo
- 3. Malignant Pleural Mesothelioma
 - a. Adult patients with unresectable malignant pleural mesothelioma, as first-line treatment in combination with ipilimumab
- 4. Renal Cell Carcinoma (RCC)
 - a. Advanced renal cell carcinoma in patients who have received prior antiangiogenic therapy
 - b. First-line treatment of patients with advanced RCC, in combination with cabozantinib
 - c. Intermediate or poor risk, previously untreated advanced renal cell carcinoma, in combination with ipilimumab
- 5. Classical Hodgkin Lymphoma (cHL)
 - a. Classical Hodgkin lymphoma that has relapsed or progressed after:
 - i. Autologous hematopoietic stem cell transplantation (HSCT) and posttransplantation brentuximab vedotin, OR
 - ii. 3 or more lines systemic therapy that includes autologous HSCT
- 6. Squamous Cell Carcinoma of the Head and Neck (SCCHN)
 - a. Recurrent or metastatic squamous cell carcinoma of the head and neck with disease progression on or after a platinum-based therapy
- 7. Urothelial Carcinoma
 - a. Adjuvant treatment of patients with urothelial carcinoma (UC) who are at high risk of recurrence after undergoing radical resection of UC
 - b. Adult patients with unresectable or metastatic urothelial carcinoma, as first-line treatment in combination with cisplatin and gemcitabine
 - c. Adult patients with locally advanced or metastatic urothelial carcinoma who:
 - i. Have disease progression during or following platinum-containing chemotherapy
 - ii. Have disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy

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8. Colorectal Cancer

a. Microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) metastatic colorectal cancer that has progressed following treatment with a fluoropyrimidine, oxaliplatin, and irinotecan, as a single agent or in combination with ipilimumab

9. Hepatocellular Carcinoma

a. Hepatocellular carcinoma that has been previously treated with sorafenib, in combination with ipilimumab

10. Esophageal Cancer

- Completely resected esophageal or gastroesophageal junction cancer with residual pathologic disease, who have received neoadjuvant chemoradiotherapy (CRT)
- Unresectable advanced or metastatic esophageal squamous cell carcinoma (ESCC) as first-line treatment in combination with fluoropyrimidine- and platinumcontaining chemotherapy
- c. Unresectable advanced or metastatic esophageal squamous cell carcinoma (ESCC) as first-line treatment in combination with ipilimumab
- d. Unresectable advanced, recurrent, or metastatic esophageal squamous cell carcinoma (ESCC) after prior fluoropyrimidine- and platinum-based chemotherapy
- 11. Gastric Cancer, Gastroesophageal Junction Cancer, and Esophageal Adenocarcinoma
 - Advanced or metastatic gastric cancer, gastroesophageal junction cancer, and esophageal adenocarcinoma in combination with fluoropyrimidine- and platinumcontaining chemotherapy

Off-Label Uses: (2)

- 1. Small cell lung cancer
- 2. Metastatic anal cancer
- 3. Merkel cell carcinoma

Opdivo carries warnings for immune-mediated adverse reactions, infusion-related reactions, complications of allogeneic hematopoietic stem cell transplantation (HSCT) and embryo-fetal toxicity. Clinically significant immune-mediated adverse reactions may occur with Opdivo therapy including pneumonitis, colitis, hepatitis, nephritis, renal dysfunction, hyperthyroidism, and hypothyroidism. Patients should be monitored for signs and symptoms of adverse reactions and based on the severity, Opdivo should be withheld or discontinued, and corticosteroids administered. Opdivo may cause fetal harm when administered to a pregnant woman. Female patients of reproductive potential should be advised of the potential hazard to a fetus (1).

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The safety and effectiveness of Opdivo have not been established in pediatric patients age less than 12 years of age with melanoma or microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) metastatic colorectal cancer (mCRC) or in pediatric patients less than 18 years of age for the other approved indications (1).

Related Policies

Bavencio, Keytruda, Loqtorzi, Opdualag, Tecentriq, Yervoy, Zynyz

Policy

This policy statement applies to clinical review performed for pre-service (Prior Approval, Precertification, Advanced Benefit Determination, etc.) and/or post-service claims.

Opdivo may be considered **medically necessary** if the conditions indicated below are met.

Opdivo may be considered investigational for all other indications.

Prior-Approval Requirements

Age 12 years of age or older

Diagnoses

Patient must have **ONE** of the following:

- 1. Unresectable or metastatic melanoma
 - a. Used as a single agent **OR** in combination with ipilimumab
- 2. Adjuvant treatment of melanoma post resection
 - a. Stage IIB, Stage IIC, Stage III, or Stage IV melanoma
- 3. Resectable non-small cell lung cancer (NSCLC)
 - a. Tumors ≥4 cm **OR** node positive
 - b. Used in combination with platinum-doublet chemotherapy in the neoadjuvant setting
- 4. Metastatic non-small cell lung cancer (NSCLC) with **ONE** of the following:

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- a. **NO** EGFR or ALK genomic tumor aberrations with **ONE** of the following:
 - i. Disease progressed on or after platinum-based chemotherapy
 - ii. Tumors express PD-L1 as determined by an FDA-approved test AND used as first-line treatment in combination with ipilimumab
 - iii. Used as first-line treatment in combination with ipilimumab and 2 cycles of platinum-doublet chemotherapy
- b. Positive for EGFR or ALK genomic tumor aberrations
 - Disease must have progressed while on or after platinum-based chemotherapy
 - ii. Patient had disease progression on FDA approved therapy
- 5. Recurrent non-small cell lung cancer (NSCLC)
 - a. **NO** EGFR or ALK genomic tumor aberrations
 - b. Used as first-line treatment in combination with ipilimumab and 2 cycles of platinum-doublet chemotherapy
- 6. Advanced renal cell carcinoma with **ONE** of the following:
 - a. First-line treatment in combination with cabozantinib
 - b. Prior treatment with anti-angiogenic therapy
 - c. Patient is considered to have an intermediate or poor prognosis
 - i. Used in combination with ipilimumab
- 7. Relapsed or progressed classical Hodgkin lymphoma with **ONE** of the following:
 - a. Patient has had autologous hematopoietic stem cell transplantation (HSCT) and post-transplantation therapy with brentuximab vedotin
 - b. Patient has had 3 or more lines systemic therapy that includes autologous HSCT
- 8. Recurrent or metastatic squamous cell carcinoma of the head and neck
 - a. Disease must have progressed while on or after platinum-based chemotherapy
- 9. Urothelial carcinoma with **ONE** of the following:
 - a. Patient is at high risk of recurrence after undergoing radical resection
 - i. Used as adjuvant treatment
 - b. Unresectable or metastatic urothelial carcinoma
 - Used as first-line treatment in combination with cisplatin and gemcitabine

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c. Locally advanced or metastatic urothelial carcinoma with **ONE** of the following:

- i. Disease must have progressed while on or after platinum-based chemotherapy
- ii. Disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy
- 10. Hepatocellular carcinoma
 - a. Prior treatment with sorafenib
 - b. Used in combination with ipilimumab
- 11. Completely resected esophageal or gastroesophageal junction cancer with residual pathologic disease
 - a. Patient has received neoadjuvant chemoradiotherapy (CRT)
- 12. Unresectable advanced or metastatic esophageal squamous cell carcinoma (ESCC)
 - a. Used as first-line treatment
 - b. Used in combination with **ONE** of the following:
 - i. Fluoropyrimidine- and platinum-containing chemotherapy
 - ii. Ipilimumab
- 13. Unresectable advanced, recurrent, or metastatic esophageal squamous cell carcinoma (ESCC)
 - a. Prior treatment with fluoropyrimidine- and platinum-based chemotherapy
- 14. Microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) metastatic colorectal cancer
 - a. Progressed following treatment with fluoropyrimidine, oxaliplatin, and irinotecan
 - b. Diagnosis has to be confirmed by PCR-based assay genetic testing
 - c. Used as a single agent **OR** in combination with ipilimumab
- 15. Unresectable malignant pleural mesothelioma
 - a. Used as first-line treatment in combination with ipilimumab
- Advanced or metastatic gastric cancer, gastroesophageal junction cancer, or esophageal adenocarcinoma

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a. Used in combination with fluoropyrimidine- and platinum-containing chemotherapy

- 17. Small cell lung cancer
- 18. Metastatic anal carcinoma
- 19. Merkel cell carcinoma

Prior – Approval Renewal Requirements

Age 12 years of age or older

Diagnoses

Patient must have **ONE** of the following:

- 1. Unresectable or metastatic melanoma
- 2. Adjuvant treatment of melanoma post resection: one renewal only
 - a. Stage IIB, Stage IIC, Stage III, or Stage IV melanoma
- 3. Metastatic non-small cell lung cancer
 - a. IF used in combination with ipilimumab: one renewal only
- 4. Recurrent non-small cell lung cancer
 - a. Used in combination with ipilimumab: one renewal only
- 5. Advanced renal cell carcinoma
 - a. IF used in combination with cabozantinib: one renewal only
- 6. Relapsed or progressed classical Hodgkin lymphoma
- 7. Recurrent or metastatic squamous cell carcinoma of the head and neck
- 8. Urothelial carcinoma

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a. **IF** used as adjuvant treatment in patients at high risk of recurrence after radical resection: one renewal **only**

- b. **IF** used for unresectable or metastatic urothelial carcinoma, as first-line treatment in combination with cisplatin and gemcitabine: one renewal **only**
- 9. Hepatocellular carcinoma
- Completely resected esophageal or gastroesophageal junction cancer with residual pathologic disease: one renewal only
- Unresectable advanced or metastatic esophageal squamous cell carcinoma (ESCC)
 - a. Used in combination with **ONE** of the following:
 - i. Fluoropyrimidine- and platinum-containing chemotherapy: one renewal only
 - ii. Ipilimumab: one renewal only
- 12. Unresectable advanced, recurrent, or metastatic esophageal squamous cell carcinoma (ESCC)
 - a. Prior treatment with fluoropyrimidine- and platinum-based chemotherapy
- 13. Microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) metastatic colorectal cancer
- 14. Unresectable malignant pleural mesothelioma
 - a. Used in combination with ipilimumab
 - b. One renewal only
- Advanced or metastatic gastric cancer, gastroesophageal junction cancer, or esophageal adenocarcinoma
 - a. Used in combination with fluoropyrimidine- and platinum-containing chemotherapy
 - b. One renewal only
- 16. Small cell lung cancer
- 17. Metastatic anal carcinoma
- 18. Merkel cell carcinoma

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AND ALL of the following for **ALL** indications:

a. NO disease progression or unacceptable toxicity

b. Prescriber agrees to discontinue treatment for any immune mediated adverse reaction (encephalitis, nephritis, rash, decreased renal function and endocrinopathies) or disease progression

Policy Guidelines

Pre - PA Allowance

None

Prior - Approval Limits

Duration 6 months

Prior - Approval Renewal Limits

Duration*

Indication	Renewal PA Duration*	Number of Renewals Allowed
Adjuvant treatment of melanoma post resection	6 months	One renewal only
Adjuvant treatment of urothelial carcinoma (patients at high risk of recurrence after radical resection)	6 months	One renewal only
Completely resected esophageal or gastroesophageal junction cancer with residual pathological disease	6 months	One renewal only
Advanced or metastatic gastric cancer, gastroesophageal junction cancer, and esophageal adenocarcinoma	18 months	One renewal only
Unresectable malignant pleural mesothelioma	18 months	One renewal only

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Unresectable or metastatic urothelial carcinoma (first-line, in combination with cisplatin and gemcitabine)	18 months	One renewal only
Metastatic non-small cell lung cancer (NSCLC) **	18 months	Used with ipilimumab
		One renewal only
		As a single agent
		Until disease progression or unacceptable toxicity
Recurrent non-small cell lung cancer (NSCLC)**	18 months	One renewal only
Unresectable malignant pleural mesothelioma	18 months	One renewal only
Esophageal squamous cell carcinoma	18 months	Used with ipilimumab or fluoropyrmidine- and platinum-containing chemotherapy:
		Prior treatment with fluoropyrimidine- and platinum-
		based chemotherapy: Until disease progression or unacceptable toxicity
Advanced renal cell carcinoma	18 months	Used with cabozantinib:
		One renewal only
		NOT being used with cabozantinib:
		Until disease progression or unacceptable toxicity
All other indications	18 months	Until disease progression or unacceptable toxicity

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Rationale

Summary

Opdivo (nivolumab) is a monoclonal antibody indicated for the treatment of various types of cancers. Opdivo works by binding to the programmed cell death-1 (PD-1) receptor, and blocking its interaction with PD-1 ligands, PD-L1 and PD-L2. This interaction releases the inhibitory effects of PD-1 pathway-mediated inhibition of the immune response, including the anti-tumor immune response, resulting in decreased tumor growth. Opdivo carries warnings for immune-mediated adverse reactions, infusion-related reactions, complications of allogeneic HSCT and embryo-fetal toxicity. The safety and effectiveness of Opdivo have not been established in pediatric patients age less than 12 years of age with melanoma or microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) metastatic colorectal cancer (mCRC) or in pediatric patients less than 18 years of age for the other approved indications (1).

Prior authorization is required to ensure the safe, clinically appropriate, and cost-effective use of Opdivo while maintaining optimal therapeutic outcomes.

References

- 1. Opdivo [package insert]. Princeton, NJ: Bristol-Myers Squibb Company; March 2024.
- 2. NCCN Drugs & Biologics Compendium[®] Nivolumab 2024. National Comprehensive Cancer Network, Inc. Accessed on July 22, 2024.

Policy History	
Date	Action
January 2015	Addition to PA
March 2015	Annual editorial review and reference update
	Addition of Metastatic squamous non-small cell lung cancer
June 2015	Annual review
October 2015	Addition of BRAF V600 wild-type, the patient must use in combination with ipilimumab, and metastatic non-small cell lung cancer with the squamous cell requirement along with disease must have progressed after FDA-
December 2015	approved therapy if patient has EGFR or ALK tumor expression option. Annual review Addition of new indication of renal cell carcinoma after prior treatment with an anti-angiogenic therapy

^{**}NO renewal for Resectable non-small cell lung cancer (NSCLC)

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March 2016 Annual review

Removal of requirements: disease progression following Yervoy (ipilimumab) if BRAF V600 mutation positive, a BRAF inhibitor, BRAF V600 wild-type the patient must use in combination with ipilimumab

Policy number change from 5.04.53 to 5.21.53

June 2016 Annual review

Addition of relapsed or progressed classical Hodgkin lymphoma in patients who have had autologous hematopoietic stem cell transplantation (HSCT) and post-transplantation therapy with brentuximab vedotin (Adcetris). Addition of Prescriber agrees to discontinue treatment for any immune mediated adverse reaction (encephalitis, nephritis, rash, decreased renal function and endocrinopathies) or disease progression in renewal section

per SME

September 2016 Annual review

December 2016 Addition of recurrent or metastatic squamous cell carcinoma of the head

and neck with progression on or after platinum-based chemotherapy

February 2017 Addition of locally advanced or metastatic urothelial carcinoma with one of

the following: disease progression during or following platinum-containing chemotherapy, or disease progression within 12 months of neoadjuvant or

adjuvant treatment with platinum-containing chemotherapy

June 2017 Annual editorial review

Addition to the relapsed or progressed classical Hodgkin lymphoma: patient has had 3 or more lines systemic therapy that includes autologous

HSCT

August 2017 Addition of microsatellite instability-high (MSI-H) or mismatch repair

deficient (dMMR) metastatic colorectal cancer

September 2017 Annual review

October 2017 Addition of hepatocellular carcinoma

December 2017 Annual review

January 2018 Addition of melanoma with lymph node involvement or metastatic disease

who have undergone complete resection, in the adjuvant setting

March 2018 Annual review

May 2018 Addition of indication: Intermediate or poor risk, previously untreated

advanced renal cell carcinoma, in combination with ipilimumab; malignant pleural mesothelioma, small cell lung cancer, metastatic anal carcinoma, and Merkel cell carcinoma; and changed the age from 18 to 12 yrs of age

June 2018 Annual review

July 2018 Addition of indication: metastatic colorectal cancer as a single agent or in

combination with ipilimumab

August 2018 Addition of metastatic small cell lung cancer, progression after platinum-

based chemotherapy and at least one other line of therapy

September 2018 Annual editorial review and reference update

November 2018 Annual review

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March 2019 Change to indication: unresectable or metastatic melanoma, as a single

agent or in combination with ipilimumab

June 2019 Annual review

April 2020 Revised indication: hepatocellular carcinoma as a single agent or in

combination with ipilimumab

May 2020 Addition of indication: metastatic NSCLC whose tumors express PD-L1, as

first-line treatment used in combination with ipilimumab, with no EGFR or ALK genomic tumor aberrations. Revised metastatic NSCLC indication so

they need to have both disease progression after platinum-based chemotherapy and disease progression after therapy for EGFR or ALK tumor aberration, if present. Addition of indication: metastatic or recurrent NSCLC with no EGFR or ALK tumor aberrations as first-line treatment with ipilimumab and 2 cycles of platinum-doublet chemotherapy. Changed renewal duration from 12 months to 18 months. Added "ONE renewal ONLY for metastatic/recurrent NSCLC when used with ipilimumab and for

adjuvant treatment of melanoma post resection"

June 2020 Annual review. Addition of indication: esophageal squamous cell

carcinoma (ESCC)

September 2020 Annual review

October 2020 Per FEP, revised malignant pleural mesothelioma indication: removed it

from the off-label section, included the requirement that it must be unresectable and used as first-line treatment in combination with ipilimumab. Added "no disease progression or unacceptable toxicity"

renewal requirement

December 2020 Annual review

January 2021 Removed metastatic small cell lung cancer indication per PI. Small cell

lung cancer remains a recommended indication per NCCN

February 2021 Addition of indication: advanced renal cell carcinoma in combination with

cabozantinib as first-line treatment

March 2021 Annual review

May 2021 Addition of indication: advanced or metastatic gastric cancer,

gastroesophageal junction cancer, or esophageal adenocarcinoma

June 2021 Addition of indication: completely resected esophageal or

gastroesophageal junction cancer with residual pathologic disease. Added

renewal duration chart for clarity

September 2021 Annual editorial review and reference update. Removed indication:

hepatocellular carcinoma as a single agent. Addition of indication:

adjuvant treatment of patients with urothelial carcinoma who are at high

risk of recurrence after undergoing radical resection

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March 2022 Annual editorial review and reference update

April 2022 Addition of indication per PI update: neoadjuvant treatment of resectable

NSCLC

June 2022 Annual review and reference update. Addition of indication per PI update:

unresectable advanced or metastatic esophageal squamous cell

carcinoma in combination with fluoropyrimidine- and platinum-containing

chemotherapy or in combination with ipilimumab

September 2022 Annual review and reference update

December 2022 Revised quantity limits chart to separate out metastatic NSCLC when used

with ipilimumab

March 2023 Annual review and reference update
September 2023 Annual review and reference update

November 2023 Per PI update, added requirement of Stage IIB, IIC, III, or IV melanoma for

adjuvant treatment of completely resected patients

December 2023 Annual review and reference update
March 2024 Annual review and reference update

April 2024 Per PI update, added indication of unresectable or metastatic urothelial

carcinoma, as first-line treatment in combination with cisplatin and

gemcitabine

June 2024 Annual review and reference update September 2024 Annual review and reference update

Keywords

This policy was approved by the FEP® Pharmacy and Medical Policy Committee on September 6, 2024 and is effective on October 1, 2024.