

## Clinical Policy: Pembrolizumab (Keytruda)

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Coding Implications
Revision Log

### **Description**

Pembrolizumab (Keytruda<sup>®</sup>) is a programmed cell death receptor-1 (PD-1)-blocking antibody.

**FDA** Approved Indication(s)

Indication Indication(s)	Adults	Pediatrics
Melanoma	X	X
Non-small cell lung cancer	X	
Head and neck squamous cell carcinoma	X	
Classical Hodgkin lymphoma	X	X
Primary mediastinal large B-cell lymphoma	X	X
Urothelial carcinoma	X	
Microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) cancer (First-line treatment for colorectal cancer limited to adults.)	X	X
Gastric cancer	X	
Esophageal cancer	X	
Cervical cancer	X	
Hepatocellular carcinoma	X	
Biliary tract cancer	X	
Merkel cell carcinoma	X	X
Renal cell carcinoma	X	
Endometrial carcinoma	X	
Tumor mutational burden-high (TMB-H) cancer	X	X (excludes CNS tumor)
Cutaneous squamous cell carcinoma	X	
Triple-negative breast cancer (TNBC)	X	
Off-label uses		
Mycosis fungoides	X	
Sezary syndrome	X	
Anal carcinoma	X	
Gestational trophoblastic neoplasia	X	
Extranodal NK/T-cell lymphoma, nasal type	X	
Vulvar carcinoma	X	
Adrenocortical carcinoma	X	
Alveolar soft part sarcoma	X	
Thymic carcinoma	X	
Anaplastic large cell lymphoma	X	
Small cell lung cancer	X	
Kaposi sarcoma	X	
Glioma		X

<sup>\*</sup>If a solid tumor is characterized as MSI-H, dMMR, or TMB-H, see criteria at Sections I.H or I.P respectively.



#### Keytruda is indicated:

#### • Melanoma

- o For the treatment of patients with unresectable or metastatic melanoma.
- o For the adjuvant treatment of adult and pediatric (12 years and older) patients with Stage IIB, IIC, or III melanoma following complete resection.

### • Non-Small Cell Lung Cancer (NSCLC)

- In combination with pemetrexed and platinum chemotherapy, as first-line treatment of patients with metastatic nonsquamous NSCLC with no EGFR or ALK genomic tumor aberrations
- o In combination with carboplatin and either paclitaxel or paclitaxel protein-bound, as first-line treatment of patients with metastatic squamous NSCLC
- o As a single agent for the first-line treatment of patients with NSCLC expressing PD-L1 [Tumor Proportion Score (TPS) ≥ 1%] as determined by an FDA-approved test, with no EGFR or ALK genomic tumor aberrations, and is:
  - Stage III where patients are not candidates for surgical resection or definitive chemoradiation, or
  - Metastatic.
- O As a single agent for the treatment of patients with metastatic NSCLC whose tumors express PD-L1 (TPS ≥1%) as determined by an FDA-approved test, with disease progression on or after platinum-containing chemotherapy. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on FDA-approved therapy for these aberrations prior to receiving Keytruda.
- o For the treatment of patients with resectable (tumors  $\geq 4$  cm or node positive) NSCLC in combination with platinum-containing chemotherapy as neoadjuvant treatment, and then continued as a single agent as adjuvant treatment after surgery.
- o As a single agent for the adjuvant treatment following resection and platinum-based chemotherapy for adult patients with Stage IB ( $T2a \ge 4$  cm), II, or IIIA NSCLC.

#### • Head and Neck Squamous Cell Cancer (HNSCC)

- o In combination with platinum and fluorouracil (FU) for the first-line treatment of patients with metastatic or with unresectable, recurrent HNSCC.
- As a single agent for the first line treatment of patients with metastatic or with unresectable, recurrent HNSCC whose tumors express PD-L1 [Combined Positive Score (CPS) ≥ 1] as determined by an FDA-approved test.
- o As a single agent for the treatment of patients with recurrent or metastatic HNSCC with disease progression on or after platinum containing chemotherapy.

#### • Classical Hodgkin Lymphoma (cHL)

- o For the treatment of adult patients with relapsed or refractory cHL.
- o For the treatment of pediatric patients with refractory cHL, or cHL that has relapsed after 2 or more lines of therapy.

### • Primary Mediastinal Large B-Cell Lymphoma (PMBCL)

- o For the treatment of adult and pediatric patients with refractory PMBCL, or who have relapsed after 2 or more prior lines of therapy\*
- o Limitations of Use: Keytruda is not recommended for treatment of patients with PMBCL who require urgent cytoreductive therapy

#### • Urothelial Carcinoma



- o In combination with enfortumab vedotin for the treatment of adult patients with locally advanced or metastatic urothelial carcinoma.
- As a single agent for the treatment of patients with locally advanced or metastatic urothelial carcinoma:
  - who are not eligible for any platinum-containing chemotherapy, or
  - who have disease progression during or following platinum-containing chemotherapy or within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy.
- o As a single agent for the treatment of patients with Bacillus Calmette-Guerin (BCG)-unresponsive, high-risk, non-muscle invasive bladder cancer (NMIBC) with carcinoma in situ (CIS) with or without papillary tumors who are ineligible for or have elected not to undergo cystectomy.

### • Microsatellite Instability-High Cancer or Mismatch Repair Deficient Cancer

o For the treatment of adult and pediatric patients with unresectable or metastatic, MSI-H or dMMR solid tumors, as determined by an FDA-approved test, that have progressed following prior treatment and who have no satisfactory alternative treatment options.\*

### • Microsatellite Instability-High Cancer or Mismatch Repair Deficient Colorectal Cancer

o For the first-line treatment of patients with unresectable or metastatic MSI-H or dMMR CRC as determined by an FDA-approved test.

#### Gastric Cancer

- o In combination with trastuzumab, fluoropyrimidine- and platinum-containing chemotherapy, for the first-line treatment of patients with locally advanced unresectable or metastatic HER2-positive gastric or gastroesophageal junction (GEJ) adenocarcinoma whose tumors express PD-L1 (CPS ≥ 1) as determined by an FDA-approved test.\*
- In combination with fluoropyrimidine- and platinum-containing chemotherapy for the first-line treatment of adults with locally advanced unresectable or metastatic HER2negative gastric or GEJ adenocarcinoma.

#### • Esophageal cancer

- o For the treatment of patients with locally advanced or metastatic esophageal or gastroesophageal junction (GEJ) (tumors with epicenter 1 to 5 centimeters above the GEJ) carcinoma that is not amenable to surgical resection or definitive chemoradiation either:
  - In combination with platinum- and fluoropyrimidine-based chemotherapy, or
  - As a single agent after one or more prior lines of systemic therapy for patients with tumors of squamous cell histology that express PD-L1 (CPS ≥10) as determined by an FDA approved test.

#### • Cervical Cancer

- o In combination with chemotherapy, with or without bevacizumab, for the treatment of patients with persistent, recurrent, or metastatic cervical cancer whose tumors express PD-L1 (CPS ≥ 1) as determined by an FDA-approved test.
- As a single agent for the treatment of patients with recurrent or metastatic cervical cancer with disease progression on or after chemotherapy whose tumors express PD-L1 (CPS ≥ 1) as determined by an FDA-approved test.

#### • Hepatocellular Carcinoma (HCC)

o For the treatment of patients with HCC who have been previously treated with sorafenib\*



### • Biliary tract cancer (BTC)

o In combination with gemcitabine and cisplatin for the treatment of patients with locally advanced unresectable or metastatic BTC.

#### • Merkel cell carcinoma (MCC)

 For the treatment of adult and pediatric patients with recurrent locally advanced or metastatic MCC.\*

### • Renal cell carcinoma (RCC)

- o In combination with axitinib, for the first-line treatment of adult patients with advanced RCC.
- o In combination with lenvatinib, for the first-line treatment of adult patients with advanced RCC.
- o For the adjuvant treatment of patients with RCC at intermediate-high or high risk of recurrence following nephrectomy, or following nephrectomy and resection of metastatic lesions.

#### • Endometrial carcinoma (EC)

- o In combination with lenvatinib, for the treatment of patients with advanced endometrial carcinoma that is mismatch repair proficient (pMMR) as determined by an FDA-approved test or not MSI-H, who have disease progression following prior systemic therapy in any setting and are not candidates for curative surgery or radiation.
- As a single agent for the treatment of patients with advanced endometrial carcinoma that is MSI-H or dMMR, as determined by an FDA-approved test, who have disease progression following prior systemic therapy in any setting and are not candidates for curative surgery or radiation.

## • Tumor Mutational Burden-High (TMB-H) Cancer

- o For the treatment of adult and pediatric patients with unresectable or metastatic TMB-H [≥10 mutations/megabase (mut/Mb)] solid tumors, as determined by an FDA-approved test, that have progressed following prior treatment and who have no satisfactory alternative treatment options.
- o Limitations of use: The safety and effectiveness of Keytruda in pediatric patients with TMB-H central nervous system cancers have not been established.

#### • Cutaneous Squamous Cell Carcinoma (cSCC)

o For the treatment of patients with recurrent of metastatic cSCC that is not curable by surgery or radiation.

### • Triple-negative breast cancer (TNBC)

- o For the treatment of patients with high-risk early-stage TNBC in combination with chemotherapy as neoadjuvant treatment, and then continued as a single agent as adjuvant treatment after surgery.
- o In combination with chemotherapy, for the treatment of patients with locally recurrent unresectable or metastatic TNBC whose tumors express PD-L1 (CPS ≥ 10) as determined by an FDA approved test.

#### • Adult cHL and adult PMBCL

 For use at an additional recommended dosage of 400 mg every 6 weeks for cHL and PMBCL in adults.\*\*\*



\* This indication is approved under accelerated approval based on tumor response rate and durability of response. Continued approval for this indication may be contingent upon verification and description of clinical benefit in the confirmatory trials.

\*\* This indication is approved under accelerated approval based on pharmacokinetic data, the relationship of exposure to efficacy, and the relationship of exposure to safety. Continued approval for this dosing may be contingent upon verification and description of clinical benefit in the confirmatory trials.

#### Policy/Criteria

Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.

It is the policy of PA Health & Wellness <sup>®</sup> that Keytruda is **medically necessary** when the following criteria are met:

### I. Initial Approval Criteria

- A. Melanoma (must meet all):
  - 1. Diagnosis of melanoma;
  - 2. Prescribed by or in consultation with an oncologist;
  - 3. Age  $\geq$  12 years;
  - 4. Disease is Stage IIB, IIC, III, recurrent, unresectable, or metastatic;
  - 5. Prescribed as one of the following (a, b, c or d):
    - a. A single agent;
    - b. In combination with Lenvima® or Yervoy®;
    - c. In combination with Mekinist® and Trafinlar® for disease with BRAF V600 activating mutation;
    - d. Other NCCN recommendations listed as category 1, 2A, or 2B;
  - 6. Request meets one of the following (a or b):
    - a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks (for a maximum of 12 months if adjuvant treatment);
    - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

### **Approval duration: 6 months**

#### **B. Non-Small Cell Lung Cancer** (must meet all):

- 1. Diagnosis of non-small cell lung cancer (NSCLC);
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age  $\geq$  18 years;
- 4. One of the following (a, b or c):
  - a. Disease is resectable or resected;
  - b. Disease is recurrent, advanced, or metastatic, and request meets one of the following (i, ii, iii, iv, v, or vi):
    - i. Disease mutation status is negative for actionable biomarkers (EGFR, KRAS, ALK, ROS1, BRAF, NTRK1/2/3, MET, RET and ERBB2 [HER2]);
    - ii. Disease mutation status is positive for EGFR S768I, L861Q, and/or G719X, and member has received prior afatinib, osimertinib, erlotinib, gefitinib, or dacomitinib;\*



- iii. Disease mutation status is positive for EGFR exon 19 deletion or L858R, and member has received prior erlotinib ± (ramucirumab or bevacizumab), afatinib, gefitinib, osimertinib, or dacomitinib;\*
- iv. Disease mutation status is positive for ROS1 rearrangement, and member has received prior crizotinib, entrectinib, or ceritinib;\*
- v.Disease mutation status is positive for ALK rearrangement, and member has received prior crizotinib, ceritinib, alectinib, brigatinib, or lorlatinib;\*
- vi. Disease mutation status is positive for EGFR exon 20, KRAS G12C, NRTK1/2/3, BRAF V600E, MET exon 14 skipping, RET rearrangement, ERBB2 (HER2);

\*Prior authorization may be required

- c. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 5. Keytruda is prescribed in one of the following ways (a, b, c, d, e or f):
  - a. For PD-L1 positive disease (TPS  $\geq$  1%);
  - b. In combination with a chemotherapy regimen (see Appendix B);
  - c. In combination with a chemotherapy regimen (*see Appendix B*) as neoadjuvant treatment, followed by single-agent adjuvant treatment after surgery for patients with resectable (tumors > 4 cm or node positive) disease;
  - d. As single-agent continuation maintenance therapy if previously given first line as part of a chemotherapy regimen;
  - e. As single-agent adjuvant treatment following resection and platinum-based chemotherapy (e.g., cisplatin, carboplatin) for adult patients with stage IB (T2a ≥ 4 cm), II, or IIIA disease;
  - f. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 6. Member does not have contraindications to PD-1/PD-L1 inhibitor therapy (e.g., Opdivo®, Yervoy, Tecentriq®, Imfinzi®) (*see Appendix F*);
- 7. Request meets one of the following (a or b):
  - a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for maximum duration of one of the following (i, ii, or iii):
    - i. 24 months:
    - ii. 12 months if adjuvant treatment;
    - iii. 12 weeks if neoadjuvant treatment, followed by 39 weeks of adjuvant treatment:
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

#### **Approval duration: 6 months**

#### C. Head and Neck Squamous Cell Carcinoma (must meet all):

- 1. Diagnosis of HNSCC (locations include paranasal sinuses, larynx, pharynx, lip, oral cavity, salivary glands; may be occult primary i.e., primary source unknown);
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age  $\geq$  18 years;
- 4. Disease is unresectable, recurrent, or metastatic;
- 5. Keytruda is prescribed in one of the following ways (a, b, c or d):
  - a. In combination with platinum-containing chemotherapy and either FU, docetaxel, or gemcitabine;



- b. As a first-line single agent and the tumor expresses PD-L1 with a CPS of  $\geq 1$ ;
- c. As a single agent for disease that has progressed on or after platinum-containing chemotherapy (e.g., cisplatin, carboplatin);
- d. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 6. Request meets one of the following (a or b):
  - a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
  - b. Requested dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

### **Approval duration: 6 months**

#### D. Classical Hodgkin Lymphoma (must meet all):

- 1. Diagnosis of classical Hodgkin lymphoma (cHL);
- 2. Prescribed by or in consultation with an oncologist or hematologist;
- 3. Age  $\geq$  6 months;
- 4. Keytruda is prescribed as single-agent therapy (*adults or pediatrics*) or in combination with GVD (gemcitabine, vinorelbine, liposomal doxorubicin) or ICE ( ifosfamide, carboplatin, etoposide) (*adults only*) in one of the following ways (a, b, c, d or e):
  - a. After hematopoietic stem cell transplant;
  - b. For disease that is refractory to  $\geq 1$  line of systemic therapy (see Appendix B);
  - c. Age  $\geq$  18 years: for disease that has relapsed after  $\geq$  1 line of systemic therapy (see Appendix B);
  - d. Age  $\geq 6$  months to < 18 years: for disease that has relapsed after  $\geq 2$  lines of systemic therapy (*see Appendix B*);
  - e. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 5. Request meets one of the following (a, b, or c):
  - a. Adults: Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months:
  - b. Pediatrics: Dose does not exceed 2 mg/kg (up to 200 mg) every 3 weeks for a maximum of 24 months;
  - c. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).

#### **Approval duration: 6 months**

#### E. Primary Mediastinal Large B-Cell Lymphoma (must meet all):

- 1. Diagnosis of PMBCL;
- 2. Prescribed by or in consultation with an oncologist or hematologist;
- 3. Age  $\geq$  6 months;
- 4. Disease is refractory to or has relapsed after  $\geq 1$  line of systemic therapy (see Appendix B)
- 5. Prescribed in one of the following ways (a, b or c):
  - a. As a single agent;
  - b. For age  $\geq 6$  months to < 18 years only, in combination with Adcetris<sup>®</sup>;
  - c. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 6. Request meets one of the following (a, b, or c):



- a. Adults: Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
- b. Pediatrics: Dose does not exceed 2 mg/kg (up to 200 mg) every 3 weeks for a maximum of 24 months;
- c. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

### **Approval duration: 6 months**

#### **F.** Urothelial Carcinoma (must meet all):

- 1. Diagnosis of urothelial carcinoma;
- 2. Prescribed by or in consultation with an oncologist or urologist;
- 3. Age  $\geq$  18 years;
- 4. Member meets one of the following (a, b, c or d):
  - a. In combination with Padcev® for locally advanced or metastatic disease;
  - b. As a single agent for locally advanced or metastatic disease, member is ineligible for or has previously received platinum-containing chemotherapy (e.g., cisplatin, carboplatin);
  - c. As a single agent for the treatment of BCG-unresponsive, high-risk, NMIBC with CIS, member is ineligible for or has elected not to undergo cystectomy (*see Appendix D for BCG shortage information*);
  - d. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 5. Request meets one of the following (a or b):
  - a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

#### **Approval duration: 6 months**

### G. Microsatellite Instability-High/Mismatch Repair Deficient Cancer (must meet all):

- 1. Diagnosis of a solid tumor classified as MSI-H or dMMR (indicative of MMR gene mutation or loss of expression) (see Appendix E for examples of solid tumors);
- 2. Prescribed by or in consultation with an oncologist;
- 3. Member meets one of the following (a, b or c):
  - a. Age  $\geq 6$  months to  $\leq 18$  years and request is not for first-line therapy;
  - b. Age  $\geq$  18 years;
  - c. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 4. Keytruda is prescribed in one of the following ways (a, b or c):
  - a. As first-line or subsequent therapy for ampullary adenocarcinoma, CRC, gallbladder cancer, gastric cancer, GEJ cancer, intrahepatic/extrahepatic cholangiocarcinoma, non-nasopharyngeal head and neck cancer, occult primary tumor, pancreatic adenocarcinoma, or small bowel adenocarcinoma;
  - b. As subsequent therapy for other solid tumors;
  - c. Other NCCN recommendations listed as category 1, 2A, or 2B:
- 5. Prescribed in one of the following ways (a, b or c):
  - a. As a single agent;



- b. For gastric or GEJ cancers: as a single agent or in combination with platinum- and fluoropyrimidine-based chemotherapy;
- c. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 6. Request meets one of the following (a, b or c):
  - a. Adults: Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
  - b. Pediatrics: Dose does not exceed 2 mg/kg (up to 200 mg) every 3 weeks for a maximum of 24 months;
  - c. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*)

### **Approval duration: 6 months**

## H. Gastric Cancer or Esophageal Cancer or Gastroesophageal Junction Cancer (must meet all):

- 1. Diagnosis of gastric or esophageal cancer or gastroesophageal junction cancer;
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age  $\geq$  18 years;
- 4. Disease is unresectable, locally advanced, recurrent, or metastatic or member is not a surgical canidate;
- 5. Keytruda is prescribed in one of the following ways (a, b, c or d):
  - a. In combination with trastuzumab, fluoropyrimidine- and platinum-containing or platinum- and fluoropyrimidine-based chemotherapy and both (i and ii);
    - i. HER2-positive gastric or GEJ adenocarcinoma;
    - ii. Tumor expresses PD-L1 (CPS  $\geq$  1);
  - b. In combination with platinum- and fluoropyrimidine-based chemotherapy, and either (i or ii):
    - i. HER2-negative gastric or GEJ adenocarcinoma;
    - ii. Esophageal carcinoma or GEJ squamous cell carcinoma;
  - c. As a single agent after one or more prior lines of systemic therapy for members with tumors of squamous cell GEJ that express PD-L1 (CPS  $\geq$  10) (see Appendix B);
  - d. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 6. Request meets any of the following (a or b):
  - a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

#### **Approval duration: 6 months**

#### **I.** Cervical Cancer (must meet all):

- 1. Diagnosis of cervical cancer;
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age > 18 years;
- 4. Tumors express PD-L1 [CPS  $\geq$  1];
- 5. Prescribed in one of the following ways (a, b or c):
  - a. As a single agent, and (i and ii):



- i. Disease is recurrent or metastatic;
- ii. Disease has progressed on or after  $\geq 1$  line of systemic therapy (see Appendix B);
- b. In combination with chemotherapy (e.g., paclitaxel/cisplatin, paclitaxel/carboplatin) with or without bevacizumab, and disease
  - i. is persistent, recurrent, or metastatic;
- c. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 6. Request meets one of the following (a or b):
  - a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

### **Approval duration: 6 months**

#### **J. Hepatocellular Carcinoma** (must meet all):

- 1. Diagnosis of HCC;
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age  $\geq$  18 years;
- 4. Prescribed in one of the following ways (a, b or c):
  - a. First-line treatment single agent;
  - b. Disease is classified as Child-Pugh Class A and has progressed on or after therapy with Nexavar<sup>®</sup>, Lenvima<sup>®</sup> or Stivarga<sup>®</sup>;
  - \*Prior authorization is required for Nexavar and Lenvima
  - c. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 5. Member has not previously been treated with immune checkpoint inhibitor therapy (PD-L1/PD-1, e.g., Tecentriq (atezolizumab), Opdivo (nivolumab));
- 6. Prescribed as a single agent;
- 7. Request meets one of the following (a or b):
  - a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

#### **Approval duration: 6 months**

#### **K. Biliary Tract Cancer** (must meet all):

- 1. Diagnosis of BTC;
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age  $\geq$  18 years;
- 4. Disease is locally advanced unresectable or metastatic;
- 5. Prescribed in one of the following ways (a, b or c):
  - a. In combination with gemcitabine and cisplatin;
  - b. In combination with Lenvima as subsequent treatment for gallbladder cancer or cholangiocarcinoma;
  - c. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 6. Request meets one of the following (a or b):



- a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
- b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

### **Approval duration: 6 months**

### L. Merkel Cell Carcinoma (must meet all):

- 1. Diagnosis of Merkel cell carcinoma;
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age  $\geq$  6 months;
- 4. Disease is recurrent, locally advanced, or metastatic;
- 5. Prescribed
- 6. Request meets one of the following (a, b, or c):
  - a. Adults: Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
  - b. Pediatrics: Dose does not exceed 2 mg/kg (up to 200 mg) every 3 weeks for a maximum of 24 months;
  - c. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

### **Approval duration: 6 months**

#### M. Renal Cell Carcinoma (must meet all):

- 1. Diagnosis of advanced RCC;
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age  $\geq$  18 years;
- 4. Keytruda is prescribed in one of the following ways (a, b, c or d):
  - a. In combination with Inlyta® or Lenvima\*, and disease is advanced (i.e., relapsed or stage IV);
    - \*Prior authorization may be required for Inlyta and Lenvima.
  - b. As single-agent adjuvant treatment, and member is at intermediate-high or high risk of recurrence following nephrectomy, or following nephrectomy and resection of metastatic lesions;
  - c. As a single agent for relapsed or stage IV disease with non-clear cell histology (off-label);
  - d. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 5. Request meets one of the following (a or b):
  - a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

#### **Approval duration: 6 months**

#### N. Endometrial Carcinoma (must meet all):

- 1. Diagnosis of EC;
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age  $\geq$  18 years;



- 4. Prescribed in one of the following (a, b or c)
  - a. In combination with Lenvima\* and both of the following (i and ii):

\*Prior authorization may be required for Lenvima

- i. Disease is pMMR or not MSI-H; \*See criteria set I.G. for MSI-H/dMMR endometrial carcinoma
- ii. Progressed following prior systemic therapy (e.g., carboplatin/paclitaxel);
- b. In combination with carboplatin and paclitaxel for recurrent or Stage III-IV tumor;
- c. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 5. Request meets one of the following (a or b):
  - a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

### **Approval duration: 6 months**

#### O. Tumor Mutational Burden-High Cancer (must meet all):

- 1. Diagnosis of a solid tumor classified as TMB-H (i.e.,  $\geq 10$  mutations/megabase [mut/Mb]) (see Appendix E for examples of TMB-H solid tumors);
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age  $\geq$  6 months;
- 4. Disease is unresectable, locally advanced or metastatic;
- 5. One of the following (a, b or c):
  - a. Disease has progressed following prior treatment;
  - b. Prescribed as a first-line therapy for ampullary adenocarcinoma or pancreatic adenocarcinoma;
  - c. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 6. Prescribed as a single agent;
- 7. Request meets one of the following (a, b, or c):\*
  - a. Adults: Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
  - b. Pediatrics: Dose does not exceed 2 mg/kg up to 200 mg every 3 weeks for a maximum of 24 months;
  - c. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

#### **Approval duration: 6 months**

### P. Cutaneous Squamous Cell Carcinoma (must meet all):

- 1. Diagnosis of cSCC;
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age  $\geq$  18 years;
- 4. Member is not a candidate for curative surgery or radiation;
- 5. Prescribed as a single agent;
- 6. Request meets one of the following (a or b):
  - a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).



### **Approval duration: 6 months**

### Q. Triple Negative Breast Cancer (must meet all):

- 1. Diagnosis of locally recurrent unresectable or metastatic TNBC (i.e., estrogen receptor/progesterone receptor (ER/PR) negative, human epidermal growth factor receptor 2 (HER2)-negative));
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age  $\geq$  18 years;
- 4. One of the following (a, b or c):
  - a. Disease is high-risk early-stage (see Appendix F), and:
    - i. Prescribed in combination with chemotherapy (e.g., carboplatin, paclitaxel, doxorubicin, cyclophosphamide) as neoadjuvant treatment, and then continued as a single agent as adjuvant treatment after surgery;
  - b. Disease is locally recurrent unresectable or metastatic, and both of the following (i and ii):
    - i. Tumor expresses PD-L1 (CPS  $\geq$  10);
    - ii. Prescribed in combination with chemotherapy (e.g., paclitaxel, paclitaxel protein-bound, gemcitabine and carboplatin);
  - c. Other NCCN recommendations listed as category 1, 2A, or 2B;
- 5. Request meets one of the following (a or b):
  - a. Dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of (i or ii):
    - i. High-risk, early-stage TNBC: 24 weeks as neoadjuvant therapy and 27 weeks as adjuvant therapy;
    - ii. Locally recurrent unresectable or metastatic TNBC: 24 months;
  - b. Dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

#### **Approval duration: 6 months**

#### **R.** Glioma (off-label) (must meet all):

- 1. Diagnosis of hypermutant tumor diffuse high-grade glioma;
- 2. Prescribed by or in consultation with an oncologist;
- 3. Age > 6 months and < 18 years;
- 4. Dose is within FDA maximum limit for any FDA-approved indication or is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).

### **Approval duration: 6 months**

### S. NCCN Recommended Uses (off-label) (must meet all):

- 1. Diagnosis of one of the following (a, b, or c):
  - a. Keytruda is prescribed as first-line or subsequent therapy:
    - i. Stage IIB or III mycosis fungoides;
    - ii. Stage IV Sezary syndrome;
    - iii. Unresectable or metastatic adrenocortical carcinoma;
    - iv. Alveolar soft part sarcoma;
    - v. Metastatic or unresectable thymic carcinoma, and prescribed as a single agent;



- b. Keytruda is prescribed as single-agent subsequent therapy:
  - i. Metastatic anal carcinoma, and member has not previously received Keytruda or Opdivo;
  - ii. Gestational trophoblastic neoplasia;
  - iii. Extranodal NK/T-cell lymphoma, nasal type;
  - iv. Advanced, recurrent, or metastatic PD-L1-positive (CPS ≥ 1) vulvar carcinoma;
  - v. Relapsed or refractory cutaneous anaplastic large cell lymphoma;
  - vi. Relapsed or primary progressive small cell lung cancer;
  - vii. Endemic or classic Kaposi Sarcoma;
- c. Other category 1, 2A, or 2B NCCN-recommended uses not listed;
- 2. Prescribed by or in consultation with an oncologist;
- 3. Dose is within FDA maximum limit for any FDA-approved indication or is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (prescriber must submit supporting evidence).

**Approval duration: 6 months** 

T. Other diagnoses/indications: Refer to PA.CP.PMN.53

### **II.** Continued Approval

- **A. All Indications in Section I** (must meet all):
  - 1. Currently receiving medication via PA Health & Wellness benefit or member has previously met all initial approval criteria or the Continuity of Care policy (PA.LTSS.PHAR.01) applies;
  - 2. Member is responding positively to therapy;
  - 3. If request is for a dose increase, request meets one of the following (a, b, or c):
    - a. Adults (i, ii, iii, iv or v):
      - i. Melanoma: New dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks (for a maximum of 12 months if adjuvant treatment);
      - ii. High-risk, early-stage TNBC: New dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 weeks as neoadjuvant therapy and 27 weeks as adjuvant therapy;
      - iii. RCC monotherapy: New dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 12 months;
      - iv. NSCLC: New dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum duration of one of the following (a, b or c):
        - a) 24 months;
        - b) 12 months if adjuvant treatment;
        - c) 12 weeks if neoadjuvant treatment, followed by 39 weeks of adjuvant treatment;
      - v. All other FDA-approved indications: New dose does not exceed 200 mg every 3 weeks or 400 mg every 6 weeks for a maximum of 24 months;
    - b. Pediatrics (i or ii):
      - i. cHL, PMBCL, MSI-H or dMMR cancer, MCC, TMB-H cancer: New dose does not exceed 2 mg/kg up to 200 mg every 3 weeks for a maximum of 24 months;



- ii. Melanoma: New dose does not exceed 2 mg/kg up to 200 mg every 3 weeks for a maximum of 12 months;
- c. New dose is supported by practice guidelines or peer-reviewed literature for the relevant off-label use (*prescriber must submit supporting evidence*).

**Approval duration: 12 months** 

#### **B.** Other diagnoses/indications (must meet 1 or 2):

- 1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01) applies; or
- 2. Refer to PA.CP.PMN.53

#### III. Diagnoses/Indications for which coverage is NOT authorized:

- **A.** Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policy PA.CP.PMN.53;
- **B.** Pediatric patients with MSI-H or TMB-H central nervous cancers

### IV. Appendices/General Information

Appendix A: Abbreviation/Acronym Key ALK: anaplastic lymphoma kinase

BCG: Bacillus Calmette-Guerin carcino

BTC: biliary tract cancer

cHL: classical Hodgkin lymphoma

CIS: carcinoma in situ

CNS: central nervous system CPS: combined positive score

CRC: colorectal cancer

cSCC: cutaneous squamous cell carcinoma

dMMR: mismatch repair deficient

EGFR: epidermal growth factor receptor

EC: endometrial carcinoma

FDA: Food and Drug Administration GEJ: gastroesophageal junction

HCC: hepatocellular carcinoma

HER2: human epidermal growth factor

receptor 2

HNSCC: head and neck squamous cell carcinoma

carcinoma

MCC: Merkel cell carcinoma

MSI-H: microsatellite instability-high NCCN: National Comprehensive Cancer

Network

NMIBC: non-muscle invasive bladder

cancer

NSCLC: non-small cell lung cancer PD-1: programmed death protein 1 PD-L1: programmed death-ligand 1 pMMR: mismatch repair proficient

RCC: renal cell carcinoma ROS1: ROS proto-oncogene 1

TMB-H: tumor mutational burden-high

TPS: tumor proportion score

#### Appendix B: Therapeutic Alternatives

This table provides a listing of preferred alternative therapy recommended in the approval criteria. The drugs listed here may not be a formulary agent for all relevant lines of business and may require prior authorization.



Section I.B: Non-Small Cell Lung Cancer  Examples of drugs used in combination with Keytruda:  • Carboplatin, cisplatin, pemetrexed, paclitaxel  Examples of targeted therapies:	Drug Name	Dosing	Dose Limit/
Section I.B: Non-Small Cell Lung Cancer  Examples of drugs used in combination with Keytruda:  • Carboplatin, cisplatin, pemetrexed, paclitaxel  Examples of targeted therapies:  Varies  Varies		Regimen	Maximum
Examples of drugs used in combination with Keytruda:  • Carboplatin, cisplatin, pemetrexed, paclitaxel Examples of targeted therapies:	Section I.B. Non-Small Cell Lung Cancer	Varies	
• Carboplatin, cisplatin, pemetrexed, paclitaxel Examples of targeted therapies:		varios	Varios
Examples of targeted therapies:			
TATEN 5 / UOL LOUIV. AHU/UEVI / TAA TATEGUU HETADIES. T	• EGFR S768I, L861Q, and/or G719X targeted therapies:		
afatinib, osimertinib, erlotinib, gefitinib, dacomitinib			
• EGFR exon 19 deletion or L858R targeted therapies:	_		
erlotinib ± (ramucirumab or bevacizumab), afatinib,			
gefitinib, osimertinib, dacomitinib			
ROS1 targeted therapies: crizotinib, entrectinib, ceritinib			
ALK rearrangement targeted therapies: crizotinib,			
ceritinib, alectinib, brigatinib, lorlatinib			
Section I.D: Classical Hodgkin Lymphoma Varies Varies		Varies	Varies
Adults: Examples of chemotherapy regimens:	9 • 1	, 612103	, darios
ABVD (doxorubicin, bleomycin, vinblastine, dacarbazine)			
Stanford V (doxorubicin, vinblastine, mechlorethamine,			
etoposide, vincristine, bleomycin, prednisone)			
BEACOPP (bleomycin, etoposide, doxorubicin,	ė į į		
cyclophosphamide, vincristine, probarbazine, prednisone)	` *		
Brentuximab vedotin + AVD (doxorubicin, vinblastine,			
dacarbazine)			
Pediatrics: Examples of chemotherapy regimens	,		
AVPC (doxorubicin, vincristine, prednisone,			
cyclophosphamide)	· · · · · · · · · · · · · · · · · · ·		
ABVE-PC (doxorubicin, bleomycin, vincristine, etoposide,			
prednisone, cyclophosphamide)	•		
Brentuximab vedotin + bendamustine			
• ICE (ifosfamide, carboplatin, etoposide)			
Section I.E: Primary Mediastinal Large B-Cell Lymphoma Varies Varies		Varies	Varies
Examples of drugs used in single- or multi-drug chemotherapy			
regimens:			
Bendamustine, brentuximab vedotin, carboplatin, cisplatin,			
cyclophosphamide, cytarabine, dexamethasone, doxorubicin,			
etoposide, gemcitabine, ibrutinib, ifosfamide, lenalidomide,	* * *		
mesna, mitoxantrone, methylprednisolone, oxaliplatin,			
prednisone, procarbazine, rituximab, vincristine,	* *		
vinorelbine*			
	( <del></del>		
*Various combinations of the listed drugs are components of the following			
chemotherapy regimens: CEOP, CEPP, DHAP, DHAX, EPOCH-R, ESHAP, GDP, GemOx, ICE, MINE, RCDOP, RCEOP, RCEPP, RCHOP, RGCVP			
Section I.F: Urothelial Carcinoma Varies Varies		Varies	Varies



Drug Name	Dosing	Dose Limit/
	Regimen	Maximum
		Dose
TICE® BCG (attenuated, live culture preparation of the Bacillus		
of Calmette and Guerin strain of <i>Mycobacterium bovis</i> for		
<u>intravesical</u> use).		
References for BCG dosing, dosing in the setting of a BCG shortage, and BCG shortage status are listed below and at Appendix D:  1. TICE BCG package insert: <a href="https://www.fda.gov/vaccines-blood-biologics/vaccines/tice-bcg">https://www.fda.gov/vaccines-blood-biologics/vaccines/tice-bcg</a> 2. American Urological Association: Important message about the BCG shortage: <a href="https://www.auanet.org/about-us/bcg-shortage-info">https://www.auanet.org/about-us/bcg-shortage-info</a> 3. Centers for Disease Control's current shortages page:		
https://www.fda.gov/vaccines-blood-biologics/safety-availability-biologics/cber-regulated-products-current-shortages		
Section I.H: Gastric, EGJ, and Esophageal Cancer	Varies	Varies
Examples of drugs used in single- or multi-drug chemotherapy regimens:*  • Cisplatin, carboplatin, oxaliplatin, paclitaxel, docetaxel,	,	, 32200
fluorouracil, capecitabine, irinotecan, leucovorin, epirubicin,		
ramucirumab (for EGJ adenocarcinoma or esophageal		
adenocarcinoma only)		
*Trastuzumab may be added to some chemotherapy regimens for HER2 overexpression.		
Section I.I: Cervical Cancer	Varies	Varies
Examples of drugs used in single- or multi-drug chemotherapy		
regimens:		
• Cisplatin, carboplatin, paclitaxel, docetaxel, bevacizumab,		
topotecan, fluorouracil, gemcitabine, ifosfamide, irinotecan,		
topotecan, mitomycin, pemetrexed, vinorelbine		
Section I.J: Hepatocellular Carcinoma Nexavar (sorafenib)	400 mg PO BID	800 mg/day
Section I.J: Hepatocellular Carcinoma Lenvima (lenvatinib)	12 mg PO QD	12 mg/day
	(patients $\geq 60 \text{ kg}$ )	
	or $8 \text{ mg}$	
	PO QD	
	(patients	
	< 60  kg	
Section I.M: Endometrial Carcinoma	Varies	Varies
Examples of chemotherapy regimens:*		
Carboplatin/paclitaxel, cisplatin/docetaxel,		
cisplatin/doxorubicin, carboplatin/paclitaxel/bevacizumab,		
carboplatin/paclitaxel/trastuzumab, ifosfamide/paclitaxel,		



Drug Name	Dosing Regimen	Dose Limit/ Maximum Dose
cisplatin/ifosfamide, everolimus/letrozole, temsirolimus, Keytruda (pembrolizumab)		
*Individual drugs used in combination regimens may also be used as monotherapy (refer to NCCN Uterine Neoplasms Guidelines)		

Therapeutic alternatives are listed as Brand name® (generic) when the drug is available by brand name only and generic (Brand name®) when the drug is available by both brand and generic.

## Appendix C: Contraindications/Boxed Warnings None reported

Appendix D: Keytruda Therapy for Urinary Bladder CIS in the Event of a BCG Shortage

- National Comprehensive Cancer Network (NCCN) information and recommendations:
  - Standard urinary bladder CIS therapy includes lesion resection followed by intravesical BCG.
  - o The NCCN advises that in the event of a BCG shortage, BCG should be prioritized for induction of high-risk patients (e.g., high-grade T1 and CIS) and that, if feasible, the dose of BCG may be split (1/3 or 1/2 dose) so that multiple patients may be treated with a single vial in the event of a shortage.
  - o If BCG is unavailable, the NCCN recommends the following alternatives:
    - Intravesical chemotherapy agents as first-line and subsequent therapy (e.g., gemcitabine, mitomycin, epirubicin, valrubicin, docetaxel, sequential gemcitabine/docetaxel, gemcitabine/mitomycin);
    - Initial radical cystectomy if patient is a surgical candidate.
  - The NCCN recommendations do not include off-label use of Keytruda as first-line or subsequent therapy in the absence of BCG failure.
- In its BCG June 2020 supply update sent to providers, Merck confirms a path forward to expand BCG manufacturing but cautions that the expansion could take years to fully realize. Merck directs providers to their wholesalers and distributors for supply questions and also provides its National Service Center number (800-672-6372) for additional information.

Appendix E: Examples of Solid Tumors per Pivotal Trials by "N" (descending)

MSI-H Solid Tumors	TMB-H Solid Tumors
CRC	SCLC
Endometrial cancer	Cervical cancer
Biliary cancer	Endometrial cancer
Colorectal cancer	Small cell lung cancer
Endometrial cancer	Cervical cancer
Biliary cancer	Mesothelioma cancer

<sup>1.</sup> National Comprehensive Cancer Network Guidelines. Bladder Cancer Version 5.2020. Available at https://www.nccn.org/professionals/physician\_gls/pdf/bladder.pdf. Accessed July 10, 2020.

<sup>2.</sup> Merck Supply Update: TICE BCG BCG LIVE (for intravesical use). June 2020.



MSI-H Solid Tumors	TMB-H Solid Tumors
Gastric or GE junction cancer	Anal cancer
Pancreatic cancer	Vulvar cancer
Small intestinal cancer	Neuroendocrine cancer
Breast cancer	Salivary cancer
Prostate cancer	Thyroid cancer
Bladder cancer	
Esophageal cancer	Additional examples - NCCN compendium:
Sarcoma	Adrenal tumor, ampullary adenocarcinoma,
Thyroid cancer	breast cancer, chondroma, cutaneous
Retroperitoneal adenocarcinoma	angiosarcoma, Ewing sarcoma,
Small cell lung cancer	myxofibrosarcoma, nasopharynx cancer,
Renal cell cancer	occult primary carcinoma, osteosarcoma,
Additional examples - NCCN compendium:	pancreatic cancer, prostate cancer, testicular
Adrenal tumor, ampullary adenocarcinoma,	cancer, undifferentiated sarcoma or
cervical / vulvar / ovarian / fallopian tube /	pleomorphic sarcoma
primary peritoneal cancer, chondroma,	
Ewing sarcoma, occult primary carcinoma,	
osteosarcoma, penile cancer, small bowel	
adenocarcinoma, testicular cancer, vulvar	
cancer	

### Appendix F: General Information

- High-risk early-stage TNBC was defined as tumor size > 1 cm but ≤ 2 cm in diameter with nodal involvement or tumor size > 2 cm in diameter regardless of nodal involvement in the pivotal KEYNOTE-522 study.
- Although Keytruda's approval for small cell lung cancer was withdrawn due to lack improvement in overall survival in phase 3 randomized trial data, the NCCN continues to recommend this use, stating that "pembrolizumab [is] just as effective as, and sometimes better than, the other subsequent therapy options."
- Per NCCN, contraindications for treatment with PD-1/PD-L1 inhibitors may include active or previously documented autoimmune disease and/or current use of immunosuppressive agents, or presence of an oncogene (i.e., EGFR exon 19 deletion or exon 21 L858R, ALK rearrangements), which has been shown to be associated with less benefit.

#### V. Dosage and Administration

Indication	Dosing Regimen	<b>Maximum Dose</b>
Pediatrics		
cHL, PMBCL, MSI-H cancer,	2 mg/kg IV every 3 weeks up to 24	200 mg every 3
MCC, TMB-H cancer	months	weeks
Melanoma	2 mg/kg IV every 3 weeks up to 12	200 mg every 3
	months	weeks
Adults		



Indication	Dosing Regimen	Maximum Dose
Melanoma	200 mg IV every 3 weeks OR 400 mg	200 mg every 3
	every 6 weeks	weeks OR 400 mg
	If adjuvant therapy up to 12 months	every 6 weeks
NSCLC	200 mg IV every 3 weeks OR 400 mg	200 mg every 3
	every 6 weeks up to 24 months* OR	weeks OR 400 mg
	up to 12 months for adjuvant	every 6 weeks
	treatment** OR 12 weeks for	
	neoadjuvant treatment*** followed	
	by adjuvant treatment for 39 weeks**	
	*As single-agent therapy or in combination	
	with chemotherapy	
	**As single-agent therapy	
LINECC ALL DMDCI	*** In combination with chemotherapy	200 2
HNSCC, cHL, PMBCL,	200 mg IV every 3 weeks OR 400 mg	200 mg every 3
urothelial carcinoma, MSI-H	every 6 weeks up to 24 months*	weeks OR 400 mg
or dMMR cancer (including	*For coming agrees as only good agrees	every 6 weeks
endometrial carcinoma),	*For cervical cancer, esophageal cancer, gastric cancer, or HNSCC: as single-agent	
gastric cancer, esophageal	therapy or in combination with	
cancer cervical cancer, HCC,	chemotherapy.	
BTC, MCC, TMB-H cancer,	For urothelial carcinoma: as single-agent	
cSCC	therapy or in combination with Padcev.	
RCC (combination therapy)	For BTC: in combination with chemotherapy 200 mg IV every 3 weeks OR 400 mg	200 mg every 3
Rec (combination therapy)	every 6 weeks in combination with	weeks OR 400 mg
	axitinib or lenvatinib up to 24 months	every 6 weeks
PCC (monotherany)		·
RCC (monotherapy)	200 mg IV every 3 weeks OR 400 mg	200 mg every 3 weeks OR 400 mg
	every 6 weeks for up to 12 months	every 6 weeks
Non MCL II/nMMD	200 mg IV ayaw 2 waaka OD 400 mg	•
Non-MSI-H/pMMR	200 mg IV every 3 weeks OR 400 mg	200 mg every 3 weeks OR 400 mg
endometrial carcinoma	every 6 weeks in combination with	
(combination therapy)	lenvatinib up to 24 months	every 6 weeks
TNBC	200 mg IV every 3 weeks OR 400 mg	200 mg every 3
	every 6 weeks* for the following durations:	weeks OR 400 mg
		every 6 weeks
	• High-risk early-stage TNBC –	
	neoadjuvant: 24 weeks	
	High-risk early-stage TNBC –	
	adjuvant: 27 weeks	
	Locally recurrent unresectable	
	metastatic TNBC: 24 months	
	*In combination with chemotherapy for high-	
	risk early-stage TNBC when used as	
	neoadjuvant treatment and for locally	
	recurrent unresectable or metastatic TNBC.	



### VI. Product Availability

Solution, single-dose vial: 100 mg/4 mL

#### VII. References

- 1. Keytruda Prescribing Information. Whitehouse Station, NJ: Merck and Co.; December 2023. Available at <a href="http://www.merck.com/product/usa/pi\_circulars/k/keytruda/keytruda\_pi.pdf">http://www.merck.com/product/usa/pi\_circulars/k/keytruda/keytruda\_pi.pdf</a>. Accessed December 19, 2023.
- National Comprehensive Cancer Network Drugs and Biologics Compendium. Available at <a href="https://www.nccn.org/professionals/drug\_compendium/content/">https://www.nccn.org/professionals/drug\_compendium/content/</a>. Accessed December 19, 2023.
- 3. Salem ME, Puccini A, Grothey A, et al. Landscape of tumor mutation load, mismatch repair deficiency, and PD-L1 expression in a large patient cohort of gastrointestinal cancers. Molecular cancer research: MCR. 2018;16(5):805-812. https://pubmed.ncbi.nlm.nih.gov/29523759/

#### **Coding Implications**

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

HCPCS Codes	Description
J9271	Injection, Pembrolizumab, 1mg

Reviews, Revisions, and Approvals	Date
Added max dose requirement to both initial and re-auth criteria. Increased	02/2018
all approval durations from 3/6 months to 6/12 months. Removed reasons to	
discontinue. Added requirement for documentation of positive response to	
therapy. References reviewed and updated.	
1Q 2019 Criteria added for new FDA indications HCC and as first-line	01/2019
therapy for metastatic squamous NSCLC in combination with	
chemotherapy; re-added criteria for PMBCL as previously approved;	
referenced reviewed and updated.	
4Q 2019 annual review: No changes per Statewide PDL implementation 01-01-2020	10/2019
FDA Approved Indication(s) section updated;	04/2020
Cervical Cancer Criteria changes:	
<ul> <li>Added reference to Appendix B for examples of systemic therapy</li> </ul>	
<ul> <li>Added treatment duration limitation of 24 months</li> </ul>	
Melanoma criteria changes:	
<ul> <li>Removed off-label designation for uveal melanoma</li> </ul>	
<ul> <li>Added age restriction to 18 yr and older</li> </ul>	



Revi	ews, Revisions, and Approvals	Date
	A 1 1 1 1 1 1 1 C	2
`	treatment	
. N	SCLC criteria changes:	
	A 11 1 1 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1	
(	the FDA label for primary therapy and to the additional NCCN	
	directed requirement of prior ROS1 targeted therapy	
_		
(	when TPS $\geq 1\%$ is removed since Keytruda is now FDA-approved	
	•	
	as first-line therapy when TPS $\geq 1\%$	
	Criteria added for Small Cell Lung Cancer	
	INSCC criteria changes:	
	J 1 J	
	$\mathcal{U}$ 1	
	S	
(	1 2	
	single-agent therapy, the latter if PD-L1 $\geq$ 1.	
(	1	
	metastatic, to unresectable, recurrent or metastatic	
(		
• c	HL criteria changes:	
C		
C	Ç	
C		
C	Revised dosing regimens to adult and pediatric dosing	
) • [	Jrothelial Carcinoma criteria changes:	
C	$\mathcal{E}$	
(	,	
C	Progression as a response to platinum therapy is removed as	
	response may include persistence or partial response	
C	1 , 5 ,	
(	Added treatment duration limitation of 24 months	
• N	MSI-H or dMMR criteria changes:	
C	Added reference to Appendix D for examples of solid tumors listed	
	in the NCCN compendium and FDA label	
C	Added age restriction to $\geq 2$ years	



Reviews, Revisions, and Approvals	Date
Subsequent therapy requirement is removed where recommended	Dutt
per NCCN	
o Disease characteristics (e.g., metastatic) are removed to encompass	
NCCN recommended uses	
Gastric, EGJ, or esophageal adenocarcinoma criteria changes:	
<ul> <li>Added age restriction to 18 yr and older</li> </ul>	
<ul> <li>Clarified to include unresectable disease</li> </ul>	
o Added reference to Appendix B for examples of systemic therapy	
<ul> <li>Added treatment duration limitation of 24 months</li> </ul>	
Added criteria set for Esophageal Squamous Cell Carcinoma	
PMBCL criteria changes:	
<ul> <li>Added reference to Appendix B for examples of systemic therapy</li> </ul>	
<ul> <li>Revised dosing regimens to adult and pediatric dosing</li> </ul>	
HCC criteria changes:	
<ul> <li>Add treatment duration limitation of 24 months</li> </ul>	
MCC criteria changes:	
<ul> <li>Removed Off-label designation</li> </ul>	
o Lowered age restriction to $\geq 2$ years	
<ul> <li>Added criterion to indicate use in recurrent, locally advanced, or</li> </ul>	
metastatic disease	
Revised dosing regimens to adult and pediatric dosing	
Added criteria set for Renal Cell Carcinoma	
Add criteria set for Endometrial Carcinoma	
Add criteria set for NCCN recommended Uses (off-label)	
Revised dosing regimens under continued approval to align with	
individual indications	
Appendices updated	
Section IV. Dosage and Administration updated	
Product Availability section updated	
References reviewed and updated	
3Q 2020 annual review: new FDA approved dosing of 400 mg every 6	07/2020
weeks added to all labeled adult indications; NSCLC: first-line removed	
from combination with chemotherapy per NCCN; brain metastasis moved	
under PD-L1 positive disease per NCCN; SCLC: relapsed disease added per	
NCCN; cHL: Keytruda as single-agent therapy added per NCCN; HNSCC:	
first-line therapy requirement removed from combination platinum/FU	
therapy per NCCN; MSI-H/dMMR tumors: first-line therapy for occult	
primary tumor and small bowel added per NCCN; HCC: Child-Pugh Class	
A added per NCCN/pivotal trial with no prior checkpoint inhibitor therapy	
caveat per NCCN; three new FDA approved indications added: 1) MSI-	
H/dMMR CRC first-line (adults), 2) TMB-H (adults/pediatrics), 3) cSCC	



Reviews, Revisions, and Approvals	Date
(adults); NCCN off-label Keytruda use as first-line for MSI-H tumors is limited to adults; NCCN off-label criteria set is limited to adults; endometrial carcinoma criteria set is limited to 24 months of therapy; MSI-H/TMB-H CNS tumors excluded for pediatrics per PI; indication table added with directives to MSI-H/TMB-H criteria sets for appropriate cancers; BCG appendix D added; TMB-H solid tumor examples added to appendix E; references reviewed and updated; references reviewed and updated.	
3Q 2021 annual review: FDA cHL label updated from relapsed disease after 3 lines of therapy to after 1 line of therapy (adults) or 2 lines of therapy (pediatrics); new NCCN pediatric cHL guideline added to reference section; new FDA-approved TNBC indication added; for HCC, Lenvima added as a prior therapy option per NCCN. Newly approved indication of esophageal/GEJ junction carcinoma and new indication for combo use for 1st line gastric or GEJ adenocarcinoma were added AND removal of SCLC indication; references reviewed and updated.	07/2021
3Q 2022 annual review: RT4: updated FDA Approved Indication(s) section to include newly approved indication for use as monotherapy for MSI-H or dMMR endometrial carcinoma (no change to criteria required); revisions per NCCN – melanoma: added requirement for use as a single agent or in combination with Lenvima or Yervoy; NSCLC: added requirement for no contraindications to PD-1/PD-L1 inhibitors, clarified criteria regarding disease mutation status (disease should be negative for actionable biomarkers and prior targeted therapy is now required only for ROS1 and EGFR S768I, L861Q, and/or G719X mutations), added pathway for use as single-agent continuation maintenance therapy if previously given first line as part of a chemotherapy regimen; HNSCC: added pathway for combination use with docetaxel or gemcitabine; cHL: added pathway for combination use with GVD in adults; cSCC, HCC, PMBCL: added requirement for use as a single agent; urothelial carcinoma: added requirement for use as a single agent for locally advanced or metastatic disease in members who are ineligible for or have previously received platinum-containing chemotherapy; MSI-H/dMMR cancers: added additional cancers for which Keytruda may be used first line (ampullary adenocarcinoma, non-nasopharyngeal head and neck cancer, pancreatic adenocarcinoma, removed requirement for use as a single agent; RCC: added requirement for use as a single agent; RCC: added requirement for use as a single agent; TMB-H cancer: added pathway for use as first-line for ampullary adenocarcinoma or pancreatic adenocarcinoma, added requirement for use as a single agent; off-label uses: added additional coverable cancers (adrenocortical carcinoma, alveolar soft part sarcoma, anaplastic large cell lymphoma, small cell lung cancer), added pathway for use as first line for thymic carcinoma, removed use for malignant pleural mesothelioma,	07/2022



Reviews, Revisions, and Approvals	Date
updated mycosis fungoides to allow stage IIB, updated anal carcinoma to	
require no prior treatment with Keytruda or Opdivo, updated cancers where	
Keytruda is to be used only as subsequent therapy to require use as a single	
agent, updated extranodal NK/T-cell lymphoma to remove nasal type	
specification; references reviewed and updated.	
RT4: added criteria for newly FDA approved indication of single-agent	04/2023
adjuvant therapy for NSCLC, added "as determined by an FDA-approved	
test" for MSI-H/dMMR cancer and microsatellite instability-high or	
mismatch repair deficient CRC, and revised "adult indications: additional	
dosing regimen" to apply only to adult cHL and PMBCL per updated PI;	
revised NSCLC criteria to include additional requirements related to	
mutation status per NCCN compendium; for endometrial carcinoma for use	
in combination with Lenvima, revised dMMR to pMMR per updated FDA	
approved indication; references reviewed and updated.	
3Q 2023 annual review: cHL, PMBCL, MSI-H/dMMR, MCC, TMB-H:	07/2023
adjusted pediatric age from 2 years to 6 months per PI/KEYNOTE-051; for	
Melanoma added option to be prescribed in combination with Mekinist and	
Trafinlar for disease with BRAF V600 activating mutation per NCCN;	
added endemic or classic Kaposi Sarcoma for adult off-label use and	
hypermutant tumor diffuse high-grade glioma for pediatric off-label use per	
NCNN; added criterion prescribed as single agent for Merkel cell	
carcinoma per NCCN; for HCC, added option for Stivarga; for pediatric	
PMBCL added option to be prescribed in combination with Adcetris; for	
endometrial carcinoma added option for combination with carboplatin and	
paclitaxel if disease is recurrent or stage III-IV tumor; references reviewed	
and updated. RT4: added additional urothelial cancer indication in	
combination with enfortumab vedotin for patients ineligible for cisplatin-	
containing chemotherapy, and updated FDA approved indication for MSI-	
H/dMMR solid tumors to reflect full FDA approval per PI.	
RT4: updated FDA-approved indication for MCC to full FDA approval and	01/20024
added new indication of HER2-negative gastric/GEJ per PI; for NSCLC,	
criteria added for new FDA approved indication – "combination with	
platinum-containing chemotherapy as neoadjuvant therapy, then continued	
as single agent as adjuvant treatment after surgery for patients with tumors	
$\geq$ 4 cm or node positive" and option for disease to be resectable or resected	
per updated PI; added criteria for newly approved FDA indication for BTC	
per PI and NCCN; for gastric/esophageal/GEJ cancer, clarified specific uses	
per updated PI, including requirement that tumor must be HER2-positive	
and express PD-L1 (CPS $\geq$ 1) when prescribed in combination use with	
trastuzumab for gastric/GEJ adenocarcinoma; for MSI-H/dMMR, added	
gastric or GEJ cancer as cancer type that can be prescribed as first line or	
subsequent therapy and added option to prescribe in combination with	
platinum- and fluoropyrimidine-based chemotherapy for gastric or GEJ	
cancer per NCCN; for urothelial cancer in combination with Padcev,	



Reviews, Revisions, and Approvals	Date
updated FDA-approved indication to full approval and removed	
requirement for cisplatin ineligibility per updated PI.	