Medical Drug Clinical Criteria

| Subject: | Keytruda (pembrolizumab) | | |
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This document addresses the use of Keytruda (pembrolizumab), a human programmed death receptor-1 (PD-1) blocking antibody, for treatment of various cancers.

The following are the FDA indications and NCCN compendia uses for Keytruda.

Anal Cancer

The NCCN Drugs and Biologics Compendia and the NCCN CPG for anal cancer offered a NCCN 2A recommendation for the use of Keytruda as a single agent for subsequent treatment of metastatic squamous cell carcinoma of the anal canal as a treatment option. The NCCN Panel recommendation is based on unpublished preliminary results reported from the KEYNOTE-28 trial, a multi-cohort, phase 1b trial for PD-1 positive squamous cell carcinoma of the anal canal (Ott, 2017). Ott and colleagues (2017) concluded that further studies of PD-1 and PD-L1 inhibitors is warranted for treatment of squamous cell carcinoma of the anal canal. Most anal cancer treatments are extrapolated from colorectal treatment guidance.

Biliary Tract Cancer

Keytruda, in combination with gemcitabine and cisplatin, is indicated for the treatment of patients with locally advanced unresectable or metastatic biliary tract cancer (BTC).

The NCCN Drugs and Biologics Compendia and the NCCN CPG for biliary tract cancers offered level 1 and 2A recommendations for the use of Keytruda as the primary treatment for unresectable and metastatic disease in combination with gemcitabine and cisplatin (NCCN 1) or for MSI-H/dMMR tumors using pembrolizumab as a single agent. Also as subsequent therapy for biliary tract cancer with disease progression in MSI-H/dMMR tumors or TMB-H tumors using pembrolizumab as a single agent.

Breast Cancer

Keytruda is FDA indicated in combination with chemotherapy for the treatment of patients with locally recurrent, unresectable, or metastatic triple-negative breast cancer (TNBC) whose tumors express PD-L1 Combined Positive Score (CPS) ≥10 as determined by an FDA-approved test. Keytruda is also approved for use in combination with chemotherapy as neoadjuvant treatment, followed by single agent use in the adjuvant setting after surgery.

Cervical Cancer

Keytruda is FDA indicated for the treatment of patients with recurrent or metastatic cervical cancer with disease progression on or after chemotherapy whose tumors express PD-L1 Combined Positive Score (CPS) ≥1 as determined by an FDA-approved test. Keytruda is also indicated in combination with chemotherapy, with or without bevacizumab, is indicated for the treatment of patients with persistent, recurrent, or metastatic cervical cancer whose tumors express PD-L1 CPS≥1.

Keytruda is also FDA indicated, in combination with chemoradiotherapy (CRT), for the treatment of those with FIGO 2014 Stage III-IVA cervical cancer.

Central Nervous System Cancers

NCCN provides a 2A recommendation for the use of Keytruda as a single agent in recurrent or refractory hypermutant tumor pediatric diffuse high-grade glioma.

Colorectal Cancer

Colorectal cancer refers to malignancies originating from the large intestine (colon) or the rectum. The term colorectal cancer does not include anal cancer. Howe

Keytruda is FDA approved for the treatment of unresectable or metastatic microsatellite instability-high or mismatch repair deficient colorectal cancer (MSIH/dMMR).

NCCN Drugs and Biologics Compendium and the NCCN Clinical Practice Guidelines (CPG) on colon cancer and rectal cancer lists off-label use of Keytruda for individuals with unresectable metachronous metastases or unresectable advanced or metastatic colorectal cancer. The recommendations were based on 2A category of evidence and uniform consensus.

The NCCN panel recommends use of Keytruda or nivolumab as treatment options in patients with metastatic MMRdeficient colorectal cancer in second- or third-line therapy. Patients progressing on either of these drugs should not be offered the other.

Cutaneous Squamous Cell Carcinoma (cSCC)

Basal cell and cutaneous squamous cell cancers are together known as non-melanoma skin cancers (NMSCs) or keratinocyte carcinoma.

Keytruda is FDA approved to treat individuals with locally advanced, recurrent or metastatic cutaneous (skin) squamous cell carcinoma that is not curable by surgery or radiation.

Endometrial Cancer

Keytruda received accelerated FDA approval for the treatment of endometrial cancer in combination with lenvatinib (Lenvima) in those with advanced disease that is *not* microsatellite instability-high or mismatch repair deficient (MSI-H/dMMR) who have disease progression following prior systemic therapy and are not eligible for surgery or radiation. NCCN placed this indication as a 1 category.

Keytruda also received accelerated FDA approval for the treatment of advanced endometrial cancer that is MSI-H or dMMR as determined by an FDA approved test, as a single agent, who have disease progression following prior systemic therapy in any setting and are not candidates for curative surgery or radiation.

Esophageal Cancer

Esophageal cancer can be classified as squamous cell carcinoma or adenocarcinoma. Compared to adenocarcinoma, squamous cell carcinoma has a poorer prognosis.

Keytruda is FDA indicated for the treatment of patients with recurrent locally advanced or metastatic squamous cell carcinoma of the esophagus whose tumors express PD-L1 [Combined Positive Score (CPS) \geq 10], with disease progression after one or more prior lines of systemic therapy. Keytruda (pembrolizumab) is also FDA indicated for the treatment of locally advanced or metastatic esophageal or gastroesophageal junction (GEJ) (tumors with epicenter 1 to 5 centimeters above the GEU) carcinoma that is not amenable to surgical resection or definitive chemoradiation in combination with platinum- and fluoropyrimidine–based chemotherapy.

NCCN provides a category 2A recommendation for use of Keytruda as palliative therapy for patients with esophageal and esophagogastric junction cancer who are not surgical candidates or have unresectable locally advanced, recurrent, or metastatic disease and Karnofsky performance score ≥60% or ECOG performance score of ≤2 and if no prior tumor progression while on therapy with a checkpoint inhibitor as preferred third-line or subsequent therapy as a single agent for esophageal and EGJ adenocarcinoma with PD-L1 expression levels by CPS of ≥1.

NCCN also provides a category 2A recommendation for use of Keytruda in unresectable locally advanced, recurrent or metastatic disease this is MSI-H or dMMR positive or used in palliative therapy in those with HER2 negative cancer or in squamous cell cancer.

Gastric or Gastroesophageal Junction Adenocarcinoma

Gastroesophageal junction adenocarcinoma, a form of cancer that is located in the region where the esophagus joins the stomach, is also rare, but equally lethal. Five-year survival rates for both cancers are relatively low for esophageal cancer and for gastric cancer. Treatments are aimed at extending OS, while also providing palliative and supportive care.

Keytruda is FDA indicated for the treatment of patients with recurrent locally advanced or metastatic gastric or gastroesophageal junction adenocarcinoma whose tumors express PD-L1 [Combined Positive Score (CPS) ≥1] as determined by an FDA-approved test, with disease progression on or after two or more prior lines of therapy including fluoropyrimidine- and platinum containing chemotherapy and if appropriate, HER2/neu-targeted therapy. Keytruda is also indicated for use with trastuzumab plus platinum and fluoropyrimidine-based chemotherapy as first line treatment in locally advanced unresectable or metastatic HER2 positive gastric or gastroesophageal junction adenocarcinoma.

NCCN provides a category 2A recommendation for the use in unresectable locally advanced, recurrent, or metastatic disease that is MSI-H or dMMR positive or as first-line treatment in HER2 positive/negative disease, clarified by PD-L1 CPS score.

NCCN also provides a 2A recommendation for the use in metastatic or locally advanced gastric cancer which is MSI-H or dMMR tumor positive as a single agent or in in combination with chemotherapy or in those with HER2 overexpression negative and CPS greater than or equal to 1 in combination with chemotherapy.

Gestational Trophoblastic Neoplasia

The NCCN Drug and Biologics Compendia and the NCCN CPG for gestational trophoblastic neoplasia offer a category 2A recommendation for Keytruda as a single agent in the treatment of recurrent or progressive intermediate trophoblastic tumor following treatment with a platinum/etoposide-containing regimen and as a single agent for individuals with methotrexate-resistant high-risk disease. Though there is insufficient published evidence, due to the rarity of this disease the committee used clinical judgement to support the use of Keytruda for this condition.

Head and Neck Squamous Cell Cancer (HNSCC)

Head and neck cancer usually begins in the squamous cells that line moist, mucosal surfaces inside the head and neck (for example, inside the mouth, nose and throat), and is commonly referred to as squamous cell carcinoma of the head and neck. Head and neck cancers can also begin in the salivary glands, but these are much less common (NCI, 2018).

Keytruda is FDA indicated for the treatment of patients with recurrent, unresectable, or metastatic head and neck squamous cell carcinoma (HNSCC) as first-line monotherapy whose tumors express PD-L1 with CPS greater than or equal to 1, as first-line in combination with platinum and fluorouracil, and as monotherapy in those with disease progression on or after platinum-containing chemotherapy. NCCN also provides similar recommendation for Keytruda in HNSCC, with an additional recommendation for use of Keytruda with platinum and fluorouracil as a subsequent therapy option.

NCCN also provides a 2A recommendation for use of Keytruda as monotherapy for first or subsequent line therapy in combination with platinum-containing chemotherapy and docetaxel for recurrent, unresectable, or metastatic HNSCC.

Hepatocellular Carcinoma

Hepatocellular carcinoma is the most common form of liver cancer. Chronic infections with hepatitis B virus (HBV) or hepatitis C virus are the most common causes of liver cancer. (ACS, 2018).

Keytruda is FDA indicated for the treatment of patients with hepatocellular carcinoma (HCC) who have been previously treated with sorafenib.

Hodgkin Lymphoma

Hodgkin lymphoma is a type of malignancy which starts in the lymphocytes, a type of white blood cell that fights infection. Hodgkin lymphoma most commonly affects people between the ages of 15 and 40 and people older than age 55. In Hodgkin lymphoma, cells in the lymphatic system grow abnormally and may spread beyond the lymphatic system. As the disease progresses, it compromises the body's ability to fight infection. Many initial signs and symptoms may be similar to those of influenza, such as fever, fatigue and night sweats. Eventually, tumors develop.

Hodgkin lymphoma is distinguished by the presence of abnormal Reed-Sternberg cells with the majority of cases expressing CD15 and CD30 on immunohistochemistry testing of tissue. In developed countries, classical Hodgkin lymphoma accounts for approximately 95% of all Hodgkin disease (ACS, 2018).

Keytruda is FDA indicated for the treatment of adult with relapsed or refractory classical Hodgkin lymphoma (cHL), and pediatrics with refractory cHL, or those who have relapsed after 2 or more prior lines of therapy.

NCCN Drugs and Biologics Compendium and the NCCN CPG for Hodgkin disease includes a 2A recommendation for off-label use of Keytruda as an additional therapy option when used as a single agent for individuals with relapsed or refractory cHL.

NCCN also provides a 2A recommendation for off-label use of Keytruda as an additional therapy option when used as monotherapy for relapsed or refractory primary cutaneous anaplastic large cell lymphoma (ALCL).

Malignant Pleural Mesothelioma

Malignant mesothelioma is a rare cancer where malignant cells are found in the lining of the chest or abdominal cavity. Malignant pleural mesothelioma is the most common type, difficult to treat because the majority of individuals have advanced disease at presentation. The NCCN CPG for malignant pleural mesothelioma (2019) reported the median overall survival for the disease to be approximately 1 year, with cure rare.

The recently updated NCCN CPG for malignant pleural mesothelioma (2019) includes a category 2A recommendation for use of Keytruda as subsequent systemic therapy for the treatment of malignant pleural mesothelioma, a highly aggressive cancer with poor prognosis and limited treatment options. The recommendation is based on preliminary results from the KEYNOTE-028 study, a non-randomized, open-label, phase 1b trial that evaluated the clinical safety and activity of Keytruda in individuals with malignant pleural mesothelioma

Melanoma

BRAF gene mutations are seen most commonly in melanoma, occurring in approximately 50% of cutaneous melanomas. Mutations of the BRAF gene have been associated with shorter progression-free intervals and overall decreased survival. When discovered early, melanoma can usually be cured with surgery. Once metastasis occurs, the prognosis is usually poor. In the metastatic stage of melanoma (stage IV), the average survival rate is about 6 months with a 1-year mortality rate of 75%. Treatment of metastatic melanoma may include lymphadenectomy, immunotherapy, radiation therapy, chemotherapy or participation in a clinical trial.

Keytruda is FDA indicated for the treatment of patients with unresectable or metastatic cutaneous melanoma and for the adjuvant treatment of adult or pediatric patients 12 years of age or older with Stage IIB, Stage IIC or Stage III melanoma following complete resection.

NCCN Drugs and Biologics Compendium and the NCCN CPG on cutaneous melanoma include Category 2A recommendations for use of Keytruda as a single agent in first-line, second-line or subsequent therapy for disease progression or following maximal clinical benefit from BRAF targeted therapy for individuals with a performance status of 0-2.

NCCN Drug and Biologics Compendium and the NCCN CPG for uveal melanoma, the NCCN panel offers recommendations (category 2A) for use of Keytruda in the treatment of unresectable disease. The NCCN panel recommendation for use of Keytruda as a single agent is based on case series that evaluated Keytruda as a treatment option for uveal melanoma. Eggermont and colleagues reported results from the KEYNOTE-054 study (NCT02362594), a randomized phase 3 trial designed to evaluate Keytruda versus placebo after completion of resection of high-risk stage III melanoma. In summary, the authors concluded that: "as adjuvant therapy for high-risk stage III melanoma, 200 mg of Keytruda administered every 3 weeks for up to 1 year resulted in significantly longer recurrence-free survival than placebo, with no new toxic effects identified."

NCCN also provides a category 2A recommendation for use of Keytruda (pembrolizumab) as single-agent treatment for brain metastases in patients with BRAF non-specific melanoma.

NCCN provides a category 2A recommendation for use of Keytruda in combination with ipilimumab in cutaneous melanoma as preferred second-line or subsequent therapy* option for metastatic or unresectable disease** after progression or maximum clinical benefit from BRAF targeted therapy. This recommendation was based on an openlabel, phase 1b study (Carlino 2020), which resulted in treatment related adverse effects of 96.1% (35.9% with drug discontinuation), of which 47.1% were grade 3 and higher.

Merkel Cell Carcinoma

MCC is an uncommon type of skin cancer, also known as neuroendocrine carcinoma with up to 97% of cases primarily in the epidermis of the skin. An overall 5-year survival rate for MCC was reported at nearly 60%.

Keytruda is FDA indicated for the treatment of adult and pediatric patients with recurrent locally advanced or metastatic Merkel cell carcinoma (MCC).

Microsatellite Instability-High Cancer

Keytruda is FDA indicated for the treatment of adult and pediatric patients with unresectable or metastatic, microsatellite instability-high (MSI-H) or mismatch repair deficient

Solid tumors that have progressed following prior treatment and who have no satisfactory alternative treatment options

The safety and effectiveness of Keytruda in pediatric patients with MSI-H central nervous system cancers have not been established.

In the NCCN Drugs and Biologics and NCCN CPG for testicular cancer offer a category 2A recommendation for use of Keytruda as a single agent as palliative treatment in individuals with MSI-H/dMMR or tumor mutation burden-high (TMB-H) tumors and progression after treatment with high dose chemotherapy or third-line therapy. The recommendation is based on a small phase II study (Le, 2015; Le, 2017). In summary, the authors conclude that Keytruda may be a treatment option, however, they suggest participation in a clinical trial as the preferred treatment option. The phase 2 Keynote-158 study for those with TMB-H tumors with advanced solid tumors (Marabelle, et.al. 2020) investigated the efficacy of immunotherapy in testicular cancer, 12 patients with nonseminoma GCTs who progressed after first-line cisplatin base therapy and at least one high-dose or conventional dose chemotherapy were treated with Keytruda. Two patients achieved stable disease, but no partial or complete responses were observed.

NCCN Drugs and Biologics Compendium and the NCCN CPG for s – Ewing sarcoma and osteosarcoma offers NCCN 2A recommendation for use of Keytruda when used as a single agent for unresectable or metastatic, MSI-H or dMMR tumors with disease progression with prior treatment or when the individual has no satisfactory alternative treatment options, in line with current FDA approval.

In the recent NCCN Drugs and Biologics compendium and the NCCN CPG for ovarian cancer the NCCN panel lists NCCN 2A recommendations for use of Keytruda as a single-agent therapy for persistent disease or recurrence if MSI-H or dMMR, based on preliminary analysis from the KEYNOTE-028 study which led to the FDA approval for treatment of unresectable or metastatic solid tumors (dMMR/MSI-H only).

NCCN provides a category 2A recommendation for use of Keytruda in small bowel adenocarcinoma (including ampullary adenocarcinoma) as subsequent therapy for disease progression as a single-agent (in certain circumstances) if microsatellite instability-high (MSI-H), mismatch repair deficient (dMMR) or tumor mutational burden-high (TMB-H ≥ 10 mut/Mb). At this time this data is extrapolated on first-line use of checkpoint inhibitors in colorectal cancer. There is no direct evidence for efficacy support in usage as subsequent therapy or in disease progression.

Neuroendocrine and Adrenal Tumors

NCCN 2A considers Keytruda for the management of mismatch repair deficient (dMMR) or microsatellite instabilityhigh (MSI-H) unresectable/metastatic adrenocortical tumors that have progressed following prior treatment and have no satisfactory alternative treatment options. NCCN also offers a 2A recommendation for use of Keytruda in locoregional unresectable or metastatic adrenocortical carcinoma as single agent or in combination with mitotane.

Classical Hodgkin Lymphoma, Non-Hodgkin Lymphoma, Primary Mediastinal Large B-Cell Lymphoma

Keytruda is FDA indicated for the treatment of adult and pediatric patients with refractory primary mediastinal large Bcell lymphoma (PMBCL), or who have relapsed after 2 or more prior lines of therapy. Keytruda is not recommended for treatment of patients with PMBCL who require urgent cytoreductive therapy. NCCN also provides a 2A recommendation for the use in PMBCL as monotherapy or in combination with brentuximab vedotin. Keytruda is FDA indicated for relapsed or refractory classical Hodgkin lymphoma or refractory primary mediastinal large B-Cell lymphoma.

Non-Small Cell Lung Cancer (NSCLC)

Lung cancer is the leading cause of death from cancer worldwide, with advanced NSCLC representing the majority (85%) of these cases. It has been estimated that only 15.7% of all individuals with lung cancer will survive 5 years or more following diagnosis (NCI, 2018).

Keytruda is FDA indicated

- In combination with pemetrexed and platinum chemotherapy, for the first-line treatment of patients with
 metastatic nonsquamous non-small cell lung cancer (NSCLC), with no EGFR or ALK genomic tumor
 aberrations.
- In combination with carboplatin and either paclitaxel or nab-paclitaxel, is indicated for the first-line treatment
 of patients with metastatic squamous NSCLC.
- As a single agent, is indicated for the first-line treatment of patients with metastatic NSCLC whose tumors have high PD-L1 expression [Tumor Proportion Score (TPS) ≥50%] as determined by an FDA-approved test, with no EGFR or ALK genomic tumor aberrations.
- As a single agent, is indicated 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 platinumcontaining chemotherapy. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on FDA-approved therapy for these aberrations prior to receiving KEYTRUDA.
- As a single agent, is indicated for the first-line treatment of patients with stage III NSCLC, who are not candidates for surgical resection or definitive chemoradiation, or metastatic NSCLC, and whose tumors express PD-L1 [Tumor Proportion Score (TPS) ≥1%] as determined by an FDA-approved test, with no EGFR or ALK genomic tumor aberrations
- Treatment of patients with resectable (tumors ≥4 cm or node positive) NSCLC in combination with platinumcontaining chemotherapy as neoadjuvant treatment, and then continued as a single agent as adjuvant treatment after surgery.
- As a single agent, is indicated as adjuvant treatment following resection and platinum-based chemotherapy for adult patients with Stage IB (T2a ≥4 cm), II, or IIIA NSCLC

The updated NCCN Drugs and Biologics Compendium and the NCCN CPG on NSCLC offers recommendations for use of Keytruda for use as first-line therapy for PD-L1 positive NSCLC with PD-L1 expression positive (≥ 50%) and EGFR, ALK, ROS1 negative or unknown disease (Category 1) (Reck, 2016). The panel includes category 1 recommendations for use of Keytruda as a subsequent therapy for disease progression in individuals with NSCLC tumors with PD-L1 expression levels ≥ 1%, when Keytruda not previously given. The panel recommendations are based on preliminary results from one phase 1 study (KEYNOTE-001) and a phase 2/3 trial (KEYNOTE-010) that evaluated use of Keytruda as subsequent therapy for metastatic NSCLC. In the NCCN clinical practice guideline for NSCLC the panel defines continuation maintenance therapy as "the use of at least one of the agents that was given in the first-line regimen". The NCCN panel includes category 1 recommendations for nonsquamous NSCLC continuation maintenance therapy or use of Keytruda as a single agent as continuation maintenance therapy for use of Keytruda as a single agent as continuation maintenance therapy if given first-line as part of pembrolizumab/carboplatin/pemetrexed or pembrolizumab/carboplatin/pemetrexed is given first-line as part of pembrolizumab/carboplatin/pemetrexed or pembrolizumab/carboplatin/paclitaxel regimen. NCCN also provides a category 2A recommendation for use of Keytruda as a single-agent treatment for brain metastases in patients with PD-L1 positive NSCLC.

NCCN also provides a recommendation for use of Keytruda as treatment for recurrent, advanced, or metastatic NSCLC in combination with pemetrexed and either carboplatin or cisplatin for nonsquamous cell histology, or carboplatin and either paclitaxel or albumin-bound paclitaxel for squamous cell histology as first line or subsequent therapy in those with BRAF, NTRK, MET, or ROS1 mutations. The recommendation was based on studies (Gandhi 2018, Paz-Ares 2018) that excluded individuals with EGFR and ALK mutations, but it is unknown if those with other sensitizing mutations were included to support such use.

Penile Cancer

NCCN 2A recommendation to use as a single agent (preferred) as subsequent-line systemic therapy if unresectable or metastatic, microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) tumor that has progressed following prior treatment and no satisfactory alternative treatment options. There are no randomized clinical trials due to the rarity of penile cancer in industrialized countries. The NCCN Panel strongly recommends consideration of clinical trial participation as data are limited in the second-line setting

Primary Cutaneous Lymphomas (Mycosis Fungoides/Sezary Syndrome)

In the NCCN Drugs and Biologics Compendia and the NCCN CPG for Primary Cutaneous Lymphomas, the panel includes a NCCN 2A recommendation for use as systemic therapy of Keytruda as primary treatment in stage III Mycosis Fungoides or stage IV Sezary Syndrome. The recommendation was based on a small phase II trial of 24 patients (21 had stage III or IV), with an overall response rate of 38% (2 complete responses and 7 partial responses). The authors concluded that more studies are needed to determine potential biomarkers for response and assess whether PD-1/PD-L1 therapy can actually negatively affect the disease since there is theoretical concern that PD-1 blockade could accelerate growth of the malignancy (Khodadoust 2020).

Renal Cell Carcinoma

Keytruda received FDA approval for use in combination with axitinib (Inlyta), as first-line treatment of those with advanced renal cell carcinoma. Keytruda is also FDA approved as adjuvant treatment in those with renal cell carcinoma at intermediate-high, or high risk of recurrence following nephrectomy, or following nephrectomy and resection of metastatic lesions.

The NCCN provides similar recommendations, with an additional recommendation for subsequent therapy. NCCN also provides a recommendation for use of Keytruda for relapse or stage IV kidney cancer in combination with lenvatinib (preferred) as first-line therapy for clear cell histology and favorable or poor/intermediate risk. NCCN also provides guidance when used in combination with axitinib or lenvatinib for relapse or stage IV disease with clear cell histology, subsequent therapy can consist of immune-oncology therapy.

Soft Tissue Sarcoma

NCCN considers Keytruda useful in certain circumstances as first line or subsequent therapy for various types of soft tissue sarcoma, including of the extremity/body wall, head/neck, retroperitoneal/intra-abdominal, angiosarcoma, and alveolar soft part sarcoma. NCCN also provides a 2A recommendation for use in combination with Inlyta for the use in alveolar soft part sarcoma.

Solid Tumors

Keytruda is FDA granted approval for expanded use in adults or children for the treatment of unresectable or metastatic solid tumors (dMMR/MSIH only) (which can be found in biliary, bladder, breast, colorectal, endometrial, esophageal, gastric/gastroesophageal junction, pancreatic, prostate, renal cell, retroperitoneal adenocarcinoma, sarcoma, small cell lung, small intestine and thyroid) with *disease progression following prior treatment* and no other satisfactory alternative treatment options identified. The approval included coverage in treatment of individuals with fluoropyrimidine, oxaliplatin, and irinotecan. The FDA approval was based on tumor response rate and durability of response. NCCN provides additional recommendations for certain solid tumors (occult primary, pancreatic, and small bowel adenocarcinoma) that are dMMR/MSIH for Keytruda as first-line therapy; however, supporting literature is lacking. The recommendation is based on a small phase II study (Le, 2015, 2017), which studied Keytruda's use as subsequent therapy.

Keytruda is also FDA approved for solid tumors with tumor mutational burden-high (TMB-H), defined as greater than or equal to 10 mutations per megabase (mut/Mb), as determined by an FDA-approved test, that have progressed following prior treatment and who have no satisfactory treatment options.

NCCN provides a 2A recommendation for Keytruda for progressive locally advanced or metastatic well-differentiated grade 3 neuroendocrine tumors with unfavorable biology. This is supported by the KEYNOTE-158 study where 7 out of 233 individuals had NETs. An objective response was seen in 34.3% of the 233 individuals.

NCCN provides a category 2A recommendation for use of Keytruda as useful in certain circumstances in those with salivary gland tumors as single-agent systemic therapy for tumor mutational burden high (TMB-H) recurrent disease with distant metastases in patients with a performance status (PS) of 0-3, or unresectable locoregional recurrence or second primary with prior radiation therapy. The recommendation was based on an ongoing study (Marabelle 2020) that included three patients with TMB-H salivary gland cancer.

T cell Lymphomas

In the NCCN CPG for T-Cell Lymphomas the NCCN panel included a category 2A recommendation for extranodal NK/T-Cell lymphoma as a treatment option for Keytruda in relapsed or refractory disease following therapy in a

clinical trial. The NCCN Panel concluded that use of Keytruda in "clinical trial is the preferred relapsed/refractory option in the absence of a clinical trial, Keytruda is an appropriate option."

Thymic Carcinoma

NCCN provides a 2A category recommendation for Keytruda as subsequent therapy for unresectable or metastatic thymic carcinoma. This is based on two phase II trials (Giaccone 2018, Cho 2019) which demonstrated positive overall response rate (22.5% and 15.4%, respectively). NCCN caveats this a warning that immunotherapy, including Keytruda, can be associated with a high rate of severe immune-related adverse events, including myocarditis. For this reason, Keytruda is not recommended in those with thymomas. Additionally, NCCN also recommends use of Keytruda in individuals who cannot tolerate first-line combination regimens.

Urothelial Carcinoma/Bladder Cancer

Urothelial carcinoma is the most common type of bladder cancer. The ACS estimates that in 201 there will be approximately 80,470 new cases of bladder cancer (incidence about four times higher in men than in women) and 17,670 deaths from bladder cancer (about 12,870 in men and 4800 in women) in the United States (ACS, 2019).

Keytruda is FDA indicated:

- In combination with enfortumab vedotin, for the treatment of adult patients with locally advanced or metastatic urothelial carcinoma who are not eligible for cisplatin-containing chemotherapy.
- For the treatment of patients with locally advanced or metastatic urothelial carcinoma who have disease
 progression during or following platinum-containing chemotherapy or within 12 months of neoadjuvant or
 adjuvant treatment with platinum-containing chemotherapy.
- For the treatment of patients with locally advanced or metastatic urothelial carcinoma who are not eligible for any platinum-containing chemotherapy.
- 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.

Vulvar Cancer (Squamous Cancer)

NCCN provides a category 2A recommendation for use of Keytruda as useful in certain circumstances as a single agent for second-line treatment of advanced, recurrent, or metastatic squamous cell vulvar cancer if disease progression on or after chemotherapy in patients whose tumors express PD-L1 (Combined Positive Score ≥1). The recommendation was based on a small ongoing basket study that included individuals with cervical cancer (Chung 2018, Marabelle 2020). Therefore, there is lack of supporting data for such use at this time.

Other Uses

The FDA has withdrawn the subsequent therapy indications for nivolumab or pembrolizumab for patients with relapsed small cell lung cancer (SCLC), because phase 3 randomized trial data did not show an improvement in overall survival.213 However, the NCCN SCLC Panel still recommends these agents for certain patients. The panel decided that nivolumab or pembrolizumab are just as effective as, and sometimes better than, the other subsequent therapy options; nivolumab or pembrolizumab are also less toxic.213,219 In addition, many agents recommended as subsequent therapy options for patients with SCLC do not have an FDA indication in this setting but data show that they are effective. Patients with limited-stage SCLC who relapse and have not previously received immune checkpoint inhibitors may benefit from subsequent therapy with nivolumab or pembrolizumat, the Hematology/Oncology subcommittee will continue to follow the FDA's guidance for SLCL.

Definitions and Measures

Adjuvant therapy: Treatment given after the primary treatment to increase the chances of a cure; may include chemotherapy, radiation, hormone or biological therapy.

Anal cancer: Cancer originating in the tissues of the anus; the anus is the opening of the rectum (last part of the large intestine) to the outside of the body.

BRAF: The oncogene which directions production of a protein in the regulating MAP kinase/ERKs signaling pathway, which affects cell division, differentiation, and secretion.

Carcinoma in situ: A group of abnormal cells that stay in place where they were first formed, and have not spread, but may become cancerous. Also called stage 0 disease.

Colon cancer: Cancer originating in the tissues of the colon (the longest part of the large intestine). Most colon cancers are adenocarcinomas that begin in cells that make and release mucus and other fluids.

Colorectal cancer: Cancer originating in the colon (the longest part of the large intestine) or the rectum (the last several inches of the large intestine before the anus).

Cystectomy: Surgery to remove all or part of the bladder. Also used to describe removal of a cyst.

ECOG or Eastern Cooperative Oncology Group Performance Status: A scale and criteria used by doctors and researchers to assess how an individual's disease is progressing, assess how the disease affects the daily living abilities of the individual, and determine appropriate treatment and prognosis. This scale may also be referred to as the WHO (World Health Organization) or Zubrod score which is based on the following scale:

- 0 = Fully active, able to carry on all pre-disease performance without restriction
- 1 = Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature, for example, light house work, office work
- 2 = Ambulatory and capable of all self-care but unable to carry out any work activities. Up and about more
 than 50% of waking hours
- 3 = Capable of only limited self-care, confined to bed or chair more than 50% of waking hours
- 4 = Completely disabled. Cannot carry on any self-care. Totally confined to bed or chair
- 5 = Dead

Immune checkpoint inhibitor: A type of drug that blocks certain proteins made by some types of immune system cells, such as T cells, and some cancer cells. When these proteins are blocked, the "brakes" on the immune system are released and T cells are able to kill cancer cells better. Examples of checkpoint proteins found on T cells or cancer cells include programmed death (PD)-1, PD-ligand 1 (PD-L1), and cytotoxic T-lymphocyte–associated antigen (CTLA)-4/B7-1/B7-2 (NCI, 2018).

Karnofsky Performance Status: A scale and criteria used by doctors and researchers to assess an individual's prognosis, measure changes in their function and abilities, and determine their ability to tolerate therapies. The lower the score (from 0-100), the worse the likelihood of survival.

- 100 = Normal, no complaints
- 90 = Able to carry on normal activities
- 80 = Normal activity with effort
- 70 = Care for self. Unable to carry on normal activity or to do active work
- 60 = Requires occasional assistance, but able to care for most of his needs
- 50 = Requires considerable assistance and frequent medical care
- 40 = Disabled. Requires special care and assistance
- 30 = Severely disabled. Hospitalization indicated though death nonimminent
- 20 = Very sick. Hospitalization necessary. Active supportive treatment necessary
- 10 = Moribund
- 0 = Dead

Line of Therapy:

- First-line therapy: The first or primary treatment for the diagnosis, which may include surgery, chemotherapy, radiation therapy or a combination of these therapies.
- Second-line therapy: Treatment given when initial treatment (first-line therapy) is not effective or there is disease progression.
- Third-line therapy: Treatment given when both initial (first-line therapy) and subsequent treatment (secondline therapy) are not effective or there is disease progression.

Melanoma: A type of cancer that begins in the melanocytes. Melanoma is also referred to as malignant melanoma and cutaneous melanoma.

Merkel cell carcinoma: A rare, aggressive skin cancer.

Metastasis: The spread of cancer from one part of the body to another; a metastatic tumor contains cells that are like those in the original (primary) tumor and have spread.

Monoclonal antibody: A protein developed in the laboratory that can locate and bind to specific substances in the body and on the surface of cancer cells.

Multiple myeloma: A type of cancer that begins in plasma cells (white blood cells that produce antibodies).

Mutation: A permanent, transmissible change in genetic material.

Neoadjuvant therapy: Treatment given as a first step to shrink a tumor before the main treatment, which is usually surgery, is given. Examples of neoadjuvant therapy include chemotherapy, radiation therapy, and hormone therapy. It is a type of induction therapy.

Non-small cell lung cancer: A group of lung cancers that are named for the kinds of cells found in the cancer and how the cells look under a microscope. The three main types of non-small cell lung cancer are squamous cell carcinoma, large cell carcinoma, and adenocarcinoma.

Non-Hodgkin Lymphoma (NHL): A group of malignant solid tumors or lymphoid tissues.

Phase I trial: A study to test a new drug or treatment in a small group of participants for the first time to evaluate its safety, determine a safe dosage range, and identify side effects.

Programmed death (PD)-1: PD-1 proteins are found on T-cells and attach to PD ligands (PD-L1) found on normal (and cancer) cells (see immune checkpoint inhibitor above). Normally, this process keeps T-cells from attacking other cells in the body. Examples of FDA approved PD-1 inhibitors include Keytruda (pembrolizumab), Opdivo (nivolumab), and Libtayo (cemiplimab).

Programmed death ligand (PD-L)-1: The ligands found on normal (and cancer) cells to which the PD-1 proteins attach (see immune checkpoint inhibitor above). Cancer cells can have large amounts of PD-L1 on their surface, which helps them to avoid immune attacks. Examples of FDA approved PD-L1 inhibitors include Bavencio (avelumab), Tecentriq (atezolizumab), and Imfinzi (durvalumab).

Unresectable: Unable to be removed with surgery.

Urothelial carcinoma: A type of bladder cancer which occurs in the urinary tract system. Urothelial carcinoma is also known as transitional cell carcinoma of the bladder.

Clinical Criteria

When a drug is being reviewed for coverage under a member's medical benefit plan or is otherwise subject to clinical review (including prior authorization), the following criteria will be used to determine whether the drug meets any applicable medical necessity requirements for the intended/prescribed purpose.

Keytruda (pembrolizumab)

Requests for Keytruda (pembrolizumab) may be approved if the following criteria are met:

- Individual has a diagnosis of locoregional unresectable or metastatic Adrenocortical Carcinoma (NCCN 2A); AND
 - A. Individual is using as single agent, or in combination with mitotane; AND
 - B. Individual has a current ECOG performance status of 0-2; AND
 - C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND
 - D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

- Individual has a diagnosis of locally advanced unresectable or metastatic Biliary Tract Cancer (BTC) (Label, NCCN 1, 2A); AND
 - A. Individual is using in combination with cisplatin and gemcitabine; AND
 - B. Individual has not received prior systemic therapy in the advanced or metastatic setting; AND
 - C. Individual has a current ECOG performance status of 0-2; AND

OR II.

- D. Individual has not received treatment with another anti-PD-1, anti-PD-L1, anti-PD-L2 agent, or with an agent directed to another stimulatory or coinhibitory T-cell receptor (e.g., CTLA-4 agent); AND
- E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR III.

Individual has a diagnosis of locally recurrent, unresectable, or metastatic Triple-Negative Breast Cancer (TNBC) (Label, NCCN 1, 2A); AND

- A. Individual is using in combination with paclitaxel/nab-paclitaxel, or in combination with gemcitabine and a platinum agent); AND
- B. Individual has a tumor with PD-L1 gene expression with Combined Positive Score (CPS) of greater than or equal to 10; AND
- C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND
- D. Individual has a current Eastern Cooperative Group (ECOG) performance status of 0-2; AND
- E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR IV.

Individual has a diagnosis of high risk early-stage Triple-Negative Breast Cancer (TNBC) (Label, NCCN 2A); AND

- A. Individual is using in combination with chemotherapy in the neoadjuvant setting; AND
- B. Individual will continue/is continuing Keytruda as single agent in the adjuvant setting after surgical intervention; AND
- C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND
- D. Individual has a current Eastern Cooperative Group (ECOG) performance status of 0-2; AND
- E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR V.

- Individual has a diagnosis of persistent, recurrent or metastatic Cervical Cancer (Label, NCCN <u>12A</u>); AND A. Individual is using in combination with paclitaxel and a platinum agent, with or without bevacizumab; AND
- B. Individual has a tumor with PD-L1 gene expression with Combined Positive Score (CPS) of greater than or equal to 1 (CPS ≥ 1); AND
- C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND
- D. Individual has a current Eastern Cooperative Group (ECOG) performance status of 0-2; AND
- E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR VI.

- Individual has a diagnosis of recurrent or metastatic Cervical Cancer; AND
 - A. Individual is using as monotherapy; AND
 - B. Individual has a tumor with PD-L1 gene expression with Combined Positive Score (CPS) of greater than or equal to 1;

AND

- C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND
- D. Individual has a current Eastern Cooperative Group (ECOG) performance status of 0-2; AND
- E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR VII.

Individual has a diagnosis of FIGO 2014 Stage III-IVA cervical cancer (Label. NCCN 2A); AND

- A. Individual is using in combination with chemoradiotherapy (Cisplatin or carboplatin (if cisplatin
- intolerant) plus external beam radiation therapy [EBRT] followed by brachytherapy (CRT)); AND
- B. No prior definitive surgery, radiation, or systemic therapy for cervical cancer; AND
- C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

or VIII.

- Individual has a diagnosis of metastatic Anal Cancer (NCCN 2A): AND
- A. Individual is using as second-line or subsequent therapy; AND
- B. Individual is using as monotherapy; AND
- C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR IX.

Individual has a diagnosis of Colorectal Cancer (Label, NCCN 2A); AND

- Individual is using as monotherapy; AND Α.
- Individual meets one of the following: В.
 - 1. Primary treatment as a single agent for unresectable metachronous metastases (deficient mismatch repair/high microsatellite instability [dMMR/MSIH] only) and previous adjuvant FOLFOX (fluorouracil, leucovorin, and oxaliplatin) or CapeOX (capecitabine and oxaliplatin) within the past 12 months;
 - OR
 - 2. Subsequent therapy as a single agent (if nivolumab or pembrolizumab not previously given) for unresectable, locally advanced or metastatic disease (dMMR/MSIH only) following previous treatment with the following:
 - Oxaliplatin-, irinotecan-, and/or fluoropyrimidine-based therapy; a.
 - OR

First line treatment as a single agent for unresectable, advanced, or metastatic disease 3. (dMMR/MSIH only);

AND

- C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND
- Individual has a current ECOG performance status of 0-2; AND D.
- E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR Χ.

Individual has a diagnosis of locally advanced, regional, recurrent or metastatic Cutaneous Squamous Cell Carcinoma (cSCC) (Label, NCCN 2A); AND

- Individual is using as monotherapy; AND
- Disease is not curable by surgery or radiation; AND Β.
- Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND C.
- Individual has a current ECOG performance status of 0-2; AND D.
- Ε. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR XI.

- Individual has a diagnosis of advanced Endometrial cancer (Stage III-IV) (NCCN 1); AND
- One of the following: Α.
 - Using in combination with carboplatin and paclitaxel; OR
 - 2 Using as a single agent for maintenance therapy;

OR XII.

- Individual has a diagnosis of advanced Endometrial Cancer (Label, NCCN 1, 2A); AND
- Individual is using in one of the following ways:
 - 1. Individual is using in combination with lenvatinib; AND
 - 2. Individual is mismatch repair proficient (pMMR) or not microsatellite instability high (MSI-H); AND 3. One of the following:
 - a. Individual has disease progression after one or more prior lines of systemic therapy; OR
 - b. Individual has recurrent disease after prior platinum-based therapy in any setting, including neoadiuvant and adjuvant therapy:

OR

- 4. Individual is using as a single agent; AND 5. Individual is TMB-H, MSI-H or dMMR; AND
- 6. Individual is not a candidate for curative surgery or radiation; AND
- 7. Individual has disease progression after one or more prior lines of systemic therapy;

AND

- Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND в
- Individual has a current ECOG performance status of 0-2; AND C.
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment D with a systemic immunosuppressant:

OR XIII.

I

- Individual has a diagnosis of recurrent locally advanced or metastatic squamous cell Esophageal Cancer (Label, NCCN 1, 2A); AND
- A. Individual is using as monotherapy; AND
- Individual has a tumor with PD-L1 gene expression with CPS of greater than or equal to 10; AND Β.
- Individual has demonstrated disease progression after one or more prior lines of systemic therapy; AND С
- D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND

E. Individual has a current ECOG performance status of 0-2; AND

 F. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR XIV.

 Individual has a diagnosis of unresectable, recurrent locally advanced, or metastatic Esophageal Cancer (Label, NCCN 1, 2A); AND
 A. Individual is using in combination with platinum and fluoropyrimidine-based chemotherapy; AND

- B. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND
- C. Individual has a current ECOG performance status of 0-2; AND
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR XV.

Individual has a diagnosis of locally advanced unresectable, recurrent, or metastatic Esophageal or Esophagogastric Junction cancer (NCCN 2A1); AND

- A. Individual has HER2-positive disease and is using as first line treatment; AND
- B. Individual is using in combination with trastuzumab or its biosimilar, platinum- and fluoropyrimidinebased chemotherapy; AND
- C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND
- D. Individual has a current ECOG performance status of 0-2; AND
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR XVI

Individual has a diagnosis of unresectable locally advanced, recurrent, or metastatic Esophageal or Esophagogastric Junction cancer (NCCN); AND

- A. Individual has one of the following:
- MSI-H or dMMR tumor (independent of PD-L1 status) (NCCN 2A): OR
 HER2 overexpression negative adenocarcinoma and PD-L1 CPS ≥ 10 for palliative therapy (NCCN 1) OR
- 3. Squamous cell carcinoma for palliative therapy (NCCN 1, 2A);
- AND De ladividual is using in combination with platinum, and a fluoren virginian based shares
- B. Individual is using in combination with platinum- and a fluoropyrimidine-based chemotherapy; AND
 C. Individual has a current ECOG performance status of 0-2; AND
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR XVI.XVII

Individual has a diagnosis of recurrent locally advanced unresectable, or metastatic Gastric or Gastroesophageal Junction Adenocarcinoma (Label, NCCN 2A); AND

- A. Individual is using as monotherapy; AND
- B. Individual has a tumor with PD-L1 gene expression with CPS of greater than or equal to 1; AND
- C. Individual has demonstrated disease progression on or after two or more prior lines of therapy including fluoropyrimidine and platinum-containing chemotherapy, if appropriate HER2/neu-targeted therapy; AND
- D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent ; AND
- E. Individual has a current ECOG performance status of 0-2; AND
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR

XVII.XVIII. Individual has a diagnosis of locally advanced unresectable or metastatic Gastric or Gastroesophageal Junction Adenocarcinoma (Label, NCCN <u>12A</u>); **AND**

- A. Individual is using in one of the following ways:
 - MSI-H or dMMR tumor (independent of PD-L1 status) (NCCN 2A); OR.
 Individual has HER2-positive disease and is using as first line treatment PD-L1 CPS ≥ 1;
 - ANDOR
 - A.3. Individual has HER2-negative disease and is using as first line treatment and PD-L1 CPS ≥ 10;4
- AND B. Individual is using in combination with trastuzumab or its biosimilar, platinum- and fluoropyrimidine-
- based chemotherapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND
- D.C.Individual has a current ECOG performance status of 0-2; AND
- E.D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

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| OR | | | |
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| <u>XIX.</u> | Individual has a diagnosis of metastatic or locally advanced Gastric cancer: AND | | Formatted: Font: Bold |
| | A. Individual has one of the following: 1. Individual has MSI-H or dMMR tumor (independent of PD-L1 status (NCCN 2A); AND | - | Formatted |
| | Individual is using as a single agent or as systemic therapy in combination with platinum- and a fluoropyrimidine-based chemotherapy; | \checkmark | Formatted: Font: Bold |
| | nuoropynmume-based chemomerapy, | | Formatted |
| | <u>OR</u> 3. Individual has HER2 overexpression negative adenocarcinoma and PD-L1 CPS \geq 1 (NCCN 1); AND | * | |
| | 4. Individual is using as systemic therapy in combination with platinum- and a fluoropyrimidine-based | -{ / | Formatted: Font: Bold |
| | AND | <u> </u> | Formatted: Indent: Left: 0.81", No bullets or numbering |
| | B. Individual has a current ECOG performance status of 0-2; AND C. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | -1 (' | Formatted: Font: Bold |
| | with a systemic immunosuppressant; | /// | Formatted |
| OR | | - 11 | Formatted: Font: Bold |
| XVIII.XX. | _Individual has a diagnosis of relapsed or refractory primary cutaneous anaplastic large cell lymphoma (ALCL); AND | '/ / [_] | Formatted: Indent: Left: 0.5", No bullets or |
| | A. Individual has multifocal lesions with ALCL or cutaneous ALCL with regional node; AND | V, | Formatted |
| | B. Individual is using as monotherapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND | // | Formatted: Font: Bold |
| | D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | ١ | Formatted: Font: Bold |
| OR | with a systemic immunosuppressant; | | Formatted: No bullets or numbering |
| XIX.XXI. | _Individual has a diagnosis of malignant chemotherapy-resistant gestational trophoblastic neoplasia; AND A. Individual has one of the following: | | Tomated. No bullets of humbering |
| | 1. High-risk disease; OR | | |
| | Recurrent or progressive intermediate trophoblastic tumor following treatment with a platinum- based regimen; | | |
| | AND | | |
| | B. Individual is using as monotherapy; AND | | |
| | C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | | |
| 0.0 | with a systemic immunosuppressant; | | |
| OR XX. XXII. | _Individual has a diagnosis of recurrent, unresectable, or metastatic Head and Neck Squamous Cell | | |
| | Carcinoma (HNSCC) (Label, NCCN 1, 2A); AND | | |
| | A. Individual is using as monotherapy; AND B. Individual meets one of the following: | | |
| | 1. Individual is using as first-line treatment for tumor with PD-L1 gene expression with CPS of | | |
| | greater than or equal to 1; OR 2. Individual has demonstrated disease progression on or after platinum-containing | | |
| | chemotherapy; | | |
| | OR C. Individual is using in combination; AND | | |
| | D. Individual meets one of the following: | | |
| | Individual is using as first-line treatment in combination with platinum-containing chemotherapy and fluorouracil regardless of PD-L1 expression (NCCN 2A); OR | ' | |
| | Individual is using as first or subsequent-line in combination with platinum-containing | | |
| | chemotherapy and docetaxel; AND | | |
| | E. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND F. Individual has a current ECOG performance status of 0-2; AND | | |
| | G. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; | | Formatted: Font: Bold |
| OR | with a systemic initialiusuppressant, | 1 | Formatted |
| XXIII. | Individual has a diagnosis of recurrent, unresectable, or metastatic cancer of the nasopharynx (NCCN 2A); | 11 | rormatted |

| XIII. | Indi | vidual has a diagnosis of recurrent, unresectable, or metastatic cancer of the nasopharynx (NCCN 2A); |
|-------|-----------|---|
| | AN | |
| | Α. | Individual has squamous cell carcinoma with mixed subtypes: AND |
| | <u>B.</u> | Individual is using as first-line systemic therapy or subsequent-line (if not previously used); AND |
| | <u>C.</u> | Individual is using in combination with cisplatin and gemcitabine: AND |

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| | D. Individual is determined to not be amenable to definitive surgery or radiation therapy: AND | Formatted: Font: Bold |
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| | E. Individual has a current ECOG performance status of 0-2; AND F. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | Formatted: Font: Bold |
| | with a systemic immunosuppressant: | |
| OP | | |
| XXI.XXIV. | Individual has a diagnosis of Hepatocellular Carcinoma (HCC) (Label, NCCN 2A); AND | Formatted: Font: Bold |
| | A. Individual has Child-Pugh Class A advanced HCC; AND | Formatted: No bullets or numbering |
| | B. Individual is using as monotherapy; AND C. Individual has demonstrated disease progression or intolerance on or after treatment with an approved | |
| | first-line agent; | |
| | AND | |
| | D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND E. Individual has a current ECOG performance status of 0-2; AND | |
| | F. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | |
| | with a systemic immunosuppressant; | |
| OR XXII.XXV. | Individual has a diagnosis of relation of a refractory Hadakin Lymphome event for these with lymphosyste | |
| OR | Individual has a diagnosis of relapsed or refractory Hodgkin Lymphoma except for those with lymphocyte- predominant Hodgkin lymphoma (Label, NCCN 2A); | |
| XXIII.XXVI. | Individual has a diagnosis of Kaposi Sarcoma (NCCN 2A); AND | |
| | A. Individual has endemic or classic Sarcoma; AND | |
| | B. Individual is using as subsequent therapy for relapsed/refractory advanced cutaneous, oral, visceral, or nodal disease that has progressed on or not responded to previous first-line systemic therapies; AND | |
| | C. Individual is using as monotherapy; | |
| | D. Individual has current ECOG performance status of 0-2; AND | |
| | E. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND F. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | |
| | with a systemic immunosuppressant; | |
| OR XXIV. XXVII. | Individual has a diagnosis of Melanoma (cutaneous and uveal) (Label, NCCN 2A); AND | |
| \\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | A. Individual has unresectable or metastatic melanoma; AND | |
| | B. Individual is using as monotherapy; AND | |
| 1 | C. Individual meets one of the following: 1. Individual is using as first-line therapy in untreated disease; AND | |
| | Individual has current ECOG performance status of 0-2; AND | |
| | 3. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND | |
| | Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; | |
| | <u>4.</u> | Formatted: Indent: Left: 0.5", No bullets or |
| | OR | |
| | 2.5. Individual is using as second-line or subsequent therapy for disease progression while receiving or since completing most recent therapy and/or intolerance to previous therapy; AND | |
| | ₽-6. Individual has current ECOG performance status of 0-2; AND | Formatted: Numbered + Level: 1 + Numbering Style: |
| | E. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND F. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | 1, 2, 3, + Start at: 1 + Alignment: Left + Aligned at: |
| | with a systemic immunosuppressant; | 1" + Indent at: 1.25" |
| OR | | |
| XXV. <u>XXVIII.</u> | Individual has a diagnosis of Melanoma (cutaneous) (Label, NCCN 1, 2A); AND A. Individual has resected, stage IIB, IIC or high-risk stage III disease; AND | |
| | B. Individual is using as monotherapy; AND | |
| | C. Individual is using as adjuvant therapy for up to 12 months; AND | |
| | D. Individual has a current ECOG performance status of 0-2; AND E. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND | |
| | F. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | |
| 05 | with a systemic immunosuppressant; | |
| OR XXVI. XXIX. | Individual has a diagnosis of Melanoma (cutaneous) (NCCN 2A); AND | |
| ////////////////////////////////////// | A. Individual has metastatic or unresectable disease that has progressed following treatment with anti-PD- | |
| | 1/PD-L1-based therapy, including after anti-PD-1/PD-L1-based therapy that was used in combination | |
| | with an anti-CTLA-4 for ≥2 doses; AND B. Individual is using in combination with lenvatinib; AND | |
| | | |
| | | |

| | C. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; | | | |
|-----------------------------------|---|--------------|-------------|---|
| or XXVII.<u>X</u>XX | Individual has a diagnosis of Melanoma (cutaneous) (NCCN 2A); AND A. Individual Is using Keytruda (pembrolizumab) in combination with low-dose Yervoy (ipilimumab) for a total of four doses, followed by pembrolizumab every 3 weeks as monotherapy for 2 years; AND B. The combination is used as second-line or subsequent therapy for progression following anti-PD-1 therapy in advanced melanoma; AND | | | |
| | C. Individual has not previously used a combination of Yervoy (ipilimumab) and anti-PD-1; AND | • | -(| Formatted: No underline |
| OR | C.D.Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; | | | Formatted: Don't add space between paragraphs of the same style |
| XXXI. | Individual has a diagnosis of metastatic or unresectable Melanoma (cutaneous) (NCCN 2A); AND A. Individual is BRAF V600E mutation positive; AND | • | \neg | Formatted: Font: Bold |
| | B. Individual is using in combination with trametinib and dabrafenib: AND | \sim | Y | Formatted |
| | C. Individual is using as second-line or subsequent therapy following disease progression or intolerance if BRAF/MEK and/or PD(L)-1 inhibitor was not previously used: | \backslash | Y | Formatted: Font: Bold |
| OP | | | Y | Formatted: Font: Bold |
| XXVIII.XXXII. | Individual has a diagnosis of metastatic Melanoma with brain metastases (NCCN 2A); AND | A | | Formatted: Font: Bold |
| | A. Individual has a primary diagnosis of BRAF non-specific melanoma; AND B. Individual is using as single agent for brain metastases; AND | | \setminus |) |
| | C. Individual has a current ECOG performance status of 0-2; AND | | ι | Formatted: No bullets or numbering |
| 0.0 | D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; | | | |
| OR XXIX. XXXIII. | Individual has a diagnosis of Merkel Cell Carcinoma (MCC) (Label, NCCN 2A); AND | | | |
| | A. Individual is using as monotherapy; AND B. Individual has presence of metastatic or advanced locoregional MCC determined to be not amenable to definitive surgery or radiation therapy; AND | | | |
| | C. Individual has a current ECOG performance status of 0-2; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; | | | |
| OR | Individual has a diagnosis of Advance Cland Turner (NCCN 241), AND | | C | |
| XXXIV. | Individual has a diagnosis of Adrenal Gland Tumor (NCCN 2A); AND A. Individual has locoregional unresectable or metastatic adrenocortical carcinoma; AND | - | 7 | Formatted: Font: Bold |
| | B. Individual is using in combination with or without mitotane; AND | \sim | ٦ | Formatted |
| | C. Individual has a current ECOG performance status of 0-2; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND | | Ľ | Formatted: Font: Bold |
| | E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; | | X | Formatted: Font: Bold |
| | | < \ | Ň | Formatted: Font: Bold |
| XXX.XXXV. | Individual has a diagnosis of Non-Hodgkin Lymphoma, Primary Mediastinal Large B-Cell Lymphoma (Label, | 1/ | Ň | Formatted: Font: Bold |
| 700 a <u>rootti</u> | NCCN 2A); AND | | Y | Formatted: Indent: Left: 0.25", No bullets or |
| | A. Individual is using in one of the following ways: 1. Individual is using as monotherapy; AND | | ١٧ | numbering |
| | 2. Individual is using to treat refractory disease or subsequent therapy for disease relapse after | \ | ١Y | Formatted: Font: Bold |
| | receiving two or more prior lines of therapy; OR | | Ŷ | Formatted: No bullets or numbering |
| | Individual is <u>18 years and younger</u> using in combination with brentuximab vedotin after a partial response to second-line therapy <u>(Pediatric Aggressive Mature B-Cell Lymphomas</u> <u>NCCN Guideline);</u> | | C | , |
| | AND | | | |
| | B. Individual has a current ECOG performance status of 0-2; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND | | | |
| | Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; | | | |

OR

| XXXI.XXXVI. | Individual has a diagnosis of resectable Stage II, IIIA, or IIIB (N2) Non-Small Cell Lung Cancer (NSCLC) |
|-------------------------|--|
| | (Label, <u>NCCN 1, 2A</u>); AND |
| | A. Individual is using in one of the following ways: 1. Individual is using in combination with platinum-containing chemotherapy as neoadjuvant |
| | therapy; OR |
| | Individual is using as a single agent for post-surgical adjuvant treatment for resectable |
| | (tumors≥ 4 cm or node positive) NSCLC; |
| | AND |
| | B. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment |
| | with a systemic immunosuppressant; |
| OR | |
| XXXII.XXXVII. | Individual has a diagnosis of Stage IB (T2a ≥ 4cm), II, or IIIA Non-Small Cell Lung Cancer (NSCLC) (Label, |
| | NCCN <u>1, 2</u> A); AND |
| | A. Individual is using as adjuvant treatment; AND |
| | B. Individual is using following resection and prior platinum-based chemotherapy; AND |
| | C. Individual is using as monotherapy; AND |
| | D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND |
| | E. Individual has a current ECOG performance status of 0-2; AND |
| | F. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment |
| | with a systemic immunosuppressant; |
| OR | |
| XXXIII. <u>XXXVIII.</u> | Individual has a diagnosis of advanced, recurrent, or metastatic Non-Small Cell Lung Cancer (NSCLC) |
| I | (Label, NCCN <u>1, 2</u> A); AND |
| | A. Individual is using for the first-line treatment; AND B. Individual's disease is stage III or IV NSCLC; AND |
| | C. Individual is using as monotherapy; AND |
| | D. Tumor expresses PD-L1 gene on at least 1% or greater of tumor cells; AND |
| | E. Individual does not have presence of actionable molecular markers*; AND |
| | F. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent and has not |
| | undergone previous systemic therapy for metastatic disease; AND |
| | G. Individual has a current ECOG performance status of 0-2; AND |
| | H. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment |
| | with a systemic immunosuppressant; |
| OR | |
| XXIV.XXXIX. | Individual has a diagnosis of <i>advanced, recurrent, or metastatic nonsquamous</i> NSCLC (Label, NCCN <u>1.</u> 2A); |
| | AND |
| | A. Individual is using for first-line treatment; AND B. Disease is stage IIIb or IV NSCLC; AND |
| | C. Individual is using in combination with pemetrexed and a platinum agent; AND |
| | D. Individual does not have presence of actionable molecular markers*; AND |
| | E. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent and has not |
| | undergone previous systemic therapy for metastatic disease; AND |
| | F. Individual has a current ECOG performance status of 0-2; AND |
| | G. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment |
| | with a systemic immunosuppressant; |
| OR | |
| XXXV.XL. | Individual has a diagnosis of advanced, recurrent, or metastatic squamous NSCLC (Label, NCCN 1, 2A); |
| | AND |
| | A. Individual is using for first line treatment; AND |
| | B. Disease is stage IV NSCLC; AND |
| | C. Individual is using in combination with carboplatin plus paclitaxel or nab-paclitaxel; AND |
| | D. Individual does not have presence of actionable molecular markers*; AND E. Individual has not received tractment with another anti DD 1 or anti DD 1 acent and has not |
| | E. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent and has not undergone providue systemic therapy for metastatic diseases: AND |
| | undergone previous systemic therapy for metastatic disease; AND F. Individual has a current ECOG performance status of 0-2; AND |
| | G. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment |
| | o. Individual 5 not receiving therapy for an autoinintune disease of onionic condition requiring treatment |

G. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR XXXVI.<u>XLI.</u> _Individual has a diagnosis of advanced, recurrent or metastatic nonsquamous NSCLC (NCCN 1, 2A); AND

| | A. Individual is using in combination with pemetrexed as continuation maintenance therapy, if given first- | |
|--|---|--|
| | line as part of pembrolizumab/pemetrexed and platinum-based regimen; AND | |
| | B. Individual has tumor response or stable disease following initial cytotoxic therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND | |
| | C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND | |
| | E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | |
| | with a systemic immunosuppressant; | |
| OR XXXVII.XLII. | Individual has a diagnosis of advanced, recurrent, or metastatic squamous cell NSCLC (NCCN 2A); AND | |
| <u> </u> | A. Individual has a diagnosis of advanced, recurrent, or metastatic squamous cell NSCLC (NCCN 2A); AND A. Individual is using as monotherapy as continuation maintenance therapy, if given first-line as part of | |
| | pembrolizumab/carboplatin/paclitaxel (or nab-paclitaxel) regimen; AND | |
| | B. Individual has tumor response or stable disease following initial cytotoxic therapy; AND | |
| | C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND | |
| | E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | |
| | with a systemic immunosuppressant; | |
| OR | | |
| XXXVIII.XLIII. | Individual has a diagnosis of advanced, recurrent, metastatic NSCLC (NCCN 1, 2A); AND | |
| | A. Individual is using as monotherapy in second or subsequent line of therapy; AND | |
| | B. Individual has tumor with PD-L1 gene expression level greater than or equal to 1% with disease | |
| | progression on or after platinum-containing chemotherapy; AND C. If individual has anaplastic lymphoma kinase (ALK) or epidermal growth factor receptor (EGFR) | |
| | genomic tumor aberrations present, they must have disease progression on U.S. Food and Drug | |
| | Administration (FDA) approved therapy for the aberrations prior to receiving pembrolizumab (Keytruda); | |
| 1 | AND | |
| I | D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND E.D.Individual has a current ECOG performance status of 0-2; AND | |
| | E.E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | |
| | with a systemic immunosuppressant; | |
| OR XXXIX.XLIV. | Individual has a diagnosis of metastatic NSCLC with brain metastases (NCCN 2A); AND | |
| ······································ | A. Individual has a primary diagnosis of non-small cell lung cancer; AND | |
| | B. Individual is using as single agent for brain metastases; AND | |
| | C. Individual has tumor with PD-L1 gene expression level greater than or equal to 1%; AND | |
| | D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND E. Individual has a current ECOG performance status of 0-2; AND | |
| | F. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | |
| | with a systemic immunosuppressant; | |
| OR XL.XLV. | Individual has diagnosis of recurrent or refractory hypermutant tumor pediatric diffuse high-grade glioma | |
| AL.ALV. | (NCCN 2A); AND | |
| | A. Individual is using as a single agent; AND | |
| | B. Individual has not received treatment with another PD-1 or anti-PD-L1 agent; AND | |
| | Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; | |
| OR | with a systemic infinutiosuppressant, | |
| XLI.XLVI. | Individual has diagnosis of relapsed or refractory Mycosis fungoides/Sezary syndrome (NCCN 2A); AND | |
| | A. Individual is using for one of the following: | |
| I | <u>1.</u> Individual is using as primary treatment for systemic therapy in stage III Mycosis fungoides (MF) or Stage IV Sezary Syndrome; ANDOR. | |
| | 2. Individual is using as subsequent therapy for refractory disease to multiple previous therapies | Formatted: Font: Not Bold |
| | for Stage IIB MF with limited tumor or generalized tumor lesions, Stage III MF, Stage IV Sezary | |
| | Syndrome, Stage IVA2 non-Sezary or stage IVB visceral disease; | |
| A. | AND B. Individual has not received treatment with another PD-1 or anti-PD-L1 agent; AND | Formatted: Font: Bold |
| | C. Individual is not received treatment with another PD-1 or anti-PD-L1 agent, AND | Formatted: Font: (Default) Arial, 9 pt, Bold |
| | with a systemic immunosuppressant; | Formatted: Normal, Add space between paragraphs of |
| OR | | the same style, No bullets or numbering |
| XLII. <u>XLVII.</u> | Individual has diagnosis of advanced Renal Cell Carcinoma (RCC) (Label, NCCN 1); AND A. Individual has RCC with clear cell component; AND | |
| | B. Using in one of the following ways: | |

B. Using in one of the following ways:

- 1. Individual is using as first-line therapy; AND
- 2. Individual is using in combination with axitinib or lenvatinib; AND
- Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND 3.
- Individual has a current Karnofsky performance status of ≥ 70%; AND 4. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring 5. treatment with a systemic immunosuppressant;

OR

- 6. Individual is using as subsequent therapy; AND
- 7. Individual is using in combination with axitinib or lenvatinib; AND
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring 8. treatment with a systemic immunosuppressant;

OR XLIII.XLVII

Individual has diagnosis of Renal Cell Carcinoma (RCC) (Label, NCCN 2A); AND

- Individual is using as adjuvant treatment in those with intermediate-high or high risk of recurrence Α. following nephrectomy, or following nephrectomy and resection of metastatic lesions; AND
 - Individual has not received treatment with another PD-1 or anti-PD-L1 agent; AND
- C. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant;

OR XLIV.XLIX

- Individual has a diagnosis of Renal Cell Carcinoma (RCC) (NCCN 2A); AND
- Individual has RCC with non-clear cell histology; AND
- Individual is using as single-agent therapy for relapse or stage IV disease as systemic therapy; AND
- Individual has not received treatment with another PD-1 or anti-PD-L1 agent; AND
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment D. with a systemic immunosuppressant;

OR

| UN | | |
|-----------|---|--|
| <u>L.</u> | Individual has a diagnosis of Ovarian cancer (NCCN 2A); AND | Formatted: Font: Bold |
| | A. Individual is using for platinum-resistant persistent disease; OR | |
| | B. Individual is using for recurrence in combination with oral cyclophosphamide and bevacizumab I(or its | Formatted: Font: Bold |
| | biosimilars); AND | |
| | C. Individual has not received treatment with another PD-1 or anti-PD-L1 agent; AND | Formatted: Font: Bold |
| | D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | Formatted: Font: Bold |
| | with a systemic immunosuppressant; | Tornattea. Tone: bold |
| OR | • | Formatted: Indent: Left: 0.5", No bullets or |
| XLV.LI. | Individual has a diagnosis of alveolar soft part sarcoma (ASPS) (NCCN 2A); AND | Formatted: Font: Bold |
| | A. Individual is using in combination with axitinib (Inlyta); AND | |
| | B. Individual has not received treatment with another anti PD-1 or anti PD-L1 agent; AND | Formatted: No bullets or numbering |
| | C. Individual has a current ECOG performance status of 0-1; AND | |
| | D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | |
| | with a systemic immunosuppressant; | |

OR

XLVI-LII Individual has a diagnosis of unresectable, recurrent, advanced, or metastatic Soft Tissue Sarcoma (NCCN 2A); AND

- Individual is using as monotherapy for first line or subsequent therapy; AND Α.
- Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND в
- Individual has a current ECOG performance status of 0-2; AND C.
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment D with a systemic immunosuppressant;

I

OR

XLVII.LIII Individual has a diagnosis of unresectable or metastatic solid tumors (Label, NCCN 2A); AND

- Individual is using as monotherapy; AND A В.
 - One of the following:
 - 1. Individual has high tumor mutation burden (TMB) (greater than or equal to 10 mutations per megabase); OR
 - Individual has a dMMR/MSI-H tumor; AND 2.
- Individual has disease progression following prior treatment with no other satisfactory alternative С treatment options; AND

| | D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND E. Individual has a current ECOG performance status of 0-2; AND | | | |
|---------------------------------|--|---------------------|--|--|
| | F. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | | | |
| OR | with a systemic immunosuppressant; | | | |
| LIV. | Individual has a diagnosis of relapsed or refractory primary cutaneous anaplastic large cell lymphoma | | | |
| <u></u> | (ALCL) (NCCN 2A); AND | _ | Formatta di Canta Dalid | |
| | A. Disease is either ALCL with multifocal lesions or cutaneous ALCL (excluding systemic ALCL); AND | \leq | Formatted: Font: Bold | |
| | B. Individual is using as a single agent; AND | | Formatted | |
| | <u>C.</u> Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; <u>AND</u> <u>D.</u> Individual has a current ECOG performance status of 0-2; <u>AND</u> | \backslash | Formatted: Font: Bold | |
| | E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; | \langle / \rangle | Formatted: Font: Bold | |
| 0.0 | | $\langle \rangle$ | Formatted: Font: Bold | |
| <u>OR</u> XLVIII. <u>LV.</u> | _Individual has a diagnosis of relapsed or refractory extranodal NK-T-cell lymphoma; AND | Ľ, | Formatted: Font: Bold | |
| | A. Individual is using following treatment with asparaginase-based regimen; AND B. Individual is using as monotherapy; AND | $\langle \rangle$ | Formatted: Font: Bold | |
| | C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND | ``` | Formatted: No bullets or numbering | |
| | D. Individual has a current ECOG performance status of 0-2; AND | | | |
| | E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | | | |
| OR | with a systemic immunosuppressant; | | | |
| XLIX.LVI. | Individual has a diagnosis of unresectable or metastatic Thymic Carcinoma (NCCN 2A); AND | | | |
| | A. Individual is using as monotherapy; AND | | | |
| | B. Individual has disease progression following chemotherapy, or intolerance to first-line combination | | | |
| | regimens; AND | | | |
| | C. Individual does not have thymomas; AND | | | |
| | D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND E. Individual has a current ECOG performance status of 0-2; AND | | | |
| | F. Individual ras a current ECOG performance status of 0-2, AND F. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | | | |
| | | | | |
| | with a systemic immunosuppressant: | | | |
| OR | with a systemic immunosuppressant; | | | |
| OR LVII. | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND | | Formatted: Font: Bold | |
| | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND | | Formatted: Font: Bold | |
| | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND | | Formatted: Font: Bold Formatted: Font: Bold | |
| | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); <u>AND</u> A. Individual is using in combination with lenvatinib; <u>AND</u> B. Individual is using as first-line or second-line therapy; <u>AND</u> C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; <u>AND</u> | | | |
| | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | | Formatted: Font: Bold | |
| | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND | | Formatted: Font: Bold Formatted: Font: Bold | |
| | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold | |
| <u>LVII.</u> | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant: Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual is using in combination with enfortumab vedotin (Padcev); AND | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold | |
| <u>LVII.</u> | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant: Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual is using in combination with enfortumab vedotin (Padcev); AND B. Individual has a current ECOG performance status of 0-2; AND | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>LVII.</u> | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); <u>AND</u> A. Individual is using in combination with lenvatinib; <u>AND</u> B. Individual is using as first-line or second-line therapy; <u>AND</u> C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; <u>AND</u> D. Individual has a current ECOG performance status of 0-2; <u>AND</u> E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); <u>AND</u> A. Individual is using in combination with enfortumab vedotin (Padcev); <u>AND</u> B. Individual has a current ECOG performance status of 0-2; <u>AND</u> C. Individual has a current ECOG performance status of 0-2; <u>AND</u> C. Individual has a current with another anti-PD-1 or anti-PD-L1 agent; <u>AND</u> | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>LVII.</u> | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual is using in combination with enfortumab vedotin (Padcev); AND B. Individual has a current ECOG performance status of 0-2; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual is not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual is not received treatment with another anti-PD-L1 agent; AND D. Individual is not received treatment with another anti-PD-L1 agent; AND D. Individual is not received treatment with another anti-PD-L1 agent; AND D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>LVII.</u> | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); <u>AND</u> A. Individual is using in combination with lenvatinib; <u>AND</u> B. Individual is using as first-line or second-line therapy; <u>AND</u> C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; <u>AND</u> D. Individual has a current ECOG performance status of 0-2; <u>AND</u> E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); <u>AND</u> A. Individual is using in combination with enfortumab vedotin (Padcev); <u>AND</u> B. Individual has a current ECOG performance status of 0-2; <u>AND</u> C. Individual has a current ECOG performance status of 0-2; <u>AND</u> C. Individual has a current with another anti-PD-1 or anti-PD-L1 agent; <u>AND</u> | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>OR</u> ⊾ <u>LVIII.</u> | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual has a current ECOG performance status of 0-2; AND B. Individual has a current ECOG performance or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual has a current ECOG performance status of 0-2; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>OR</u> L.VIII. | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual is using in combination with enfortumab vedotin (Padcev); AND B. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND I. Individual is not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>OR</u> L.VIII. | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual has a current ECOG performance status of 0-2; AND B. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual is using in combination with enfortumab vedotin (Padcev); AND B. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND A. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND A. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); A. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); A. Individual is using as monotherapy; AND | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>OR</u> L.VIII. | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using an combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is using in combination with enfortumab vedotin (Padcev); AND A. Individual is using in combination with enfortumab vedotin (Padcev); AND A. Individual has a current ECOG performance status of 0-2; AND B. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND D. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND D. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND D. Individual has a current ECOG performance status of 0-2; AND D. Individual has a current ECOG performance status of 0-2; AND D. Individual has a current ECOG performance status of 0-2; AND D. Individual has a current ECOG performance status of 0-2; AND D. Individual has a current ECOG performance status of 0-2; AND D. Individual has a current ECOG performance status of 0-2; AND D. Individual has a current ECOG performance status of 0-2; AND D. Individual has a current ECOG performance status of 0-2; AND D. Individual has a current ECOG performance status of 0-2; AND D. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND A. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND A. Individual meets one of the following: | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>OR</u> L.VIII. | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); <u>AND</u> A. Individual is using an combination with lenvatinib; <u>AND</u> B. Individual is using as first-line or second-line therapy; <u>AND</u> C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; <u>AND</u> D. Individual has a current ECOG performance status of 0-2; <u>AND</u> E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, <u>NCCN 2A</u>); <u>AND</u> A. Individual has a current ECOG performance status of 0-2; <u>AND</u> A. Individual has a current ECOG performance status of 0-2; <u>AND</u> B. Individual has a current ECOG performance status of 0-2; <u>AND</u> C. Individual has a current ECOG performance status of 0-2; <u>AND</u> C. Individual has a current ECOG performance status of 0-2; <u>AND</u> C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; <u>AND</u> D. Individual has not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); <u>AND</u> A. Individual is using as monotherapy; <u>AND</u> B. Individual is using as monotherapy; <u>AND</u> B. Individual is using as monotherapy; <u>AND</u> B. Individual is not eligible for any platinum-containing chemotherapy; <u>OR</u> | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>OR</u> L.VIII. | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual has a current ECOG performance status of 0-2; AND E. Individual is using in combination with enfortumab vedotin (Padcev); AND A. Individual is using in combination with enfortumab vedotin (Padcev); AND B. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); A. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); A. Individual is using as monotherapy; AND B. Individual is using as monotherapy; AND B. Individual meets one of the following: 1. Individual is not eligible for any platinum-containing chemotherapy; OR 2. Individual is using as subsequent therapy; OR | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>OR</u> L.VIII. | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using as first-line or second-line therapy; AND C. Individual is using as first-line or second-line therapy; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual has a current ECOG performance status of 0-2; AND E. Individual is using in combination with enfortumab vedotin (Padcev); AND A. Individual is using in combination with enfortumab vedotin (Padcev); AND B. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND A. Individual is using as monotherapy; AND B. Individual is using as monotherapy; AND B. Individual is using as monotherapy; AND C. Individual is not eligible for any platinum-containing chemotherapy; OR C. Individual is using as subsequent therapy; OR | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>OR</u> L.VIII. | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is using in combination with enfortumate disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual has a current ECOG performance status of 0-2; AND B. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has not received treatment with another anti-PD-1 agent; AND D. Individual has not received treatment with another anti-PD-11 agent; AND D. Individual has not received treatment with another anti-PD-11 agent; AND D. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND A. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND A. Individual is using as monotherapy; AND B. Individual meets one of the following: Individual is not eligible for any platinum-containing chemotherapy; OR Individual is using as subsequent therapy; OR Individual has disease progression within 12 months of neoadjuvant or adjuvant treatment with | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>OR</u> L.VIII. | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using an combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual has a current ECOG performance status of 0-2; AND B. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND B. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND A. Individual is using as monotherapy; AND B. Individual is using as monotherapy; AND B. Individual is using as subsequent therapy; OR C. Individual has disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy; AND C. Individual has not received treatment with another anti PD-1 or anti-PD-L1 agent; AND | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| <u>OR</u> L.VIII. | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using in combination with lenvatinib; AND E. Individual has not received treatment with another anti-PD-1 or anti-PD-1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual has a current ECOG performance status of 0-2; AND E. Individual is using in combination with enfortumab vedotin (Padcev); AND A. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual has a current ECOG performance status of 0-2; AND E. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND A. Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND A. Individual is using as monotherapy; AND B. Individual is using as monotherapy; OR C. Individual is using as subsequent therapy; OR C. Individual has not received treatment with another anti PD-1 or anti-PD-L1 agent; AND C. Individual has not received treatment with another anti PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti PD-1 or anti-PD-L1 agent; AND D. Individual has not received treatment with another anti PD-1 or anti-PD-L1 agent; AND D. Individual has a current E | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |
| | Individual has a diagnosis of metastatic anaplastic thyroid disease (NCCN 2A); AND A. Individual is using an combination with lenvatinib; AND B. Individual is using as first-line or second-line therapy; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has a current ECOG performance status of 0-2; AND E. Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 2A); AND A. Individual has a current ECOG performance status of 0-2; AND B. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND B. Individual has a current ECOG performance status of 0-2; AND C. Individual has a current ECOG performance status of 0-2; AND C. Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND D. Individual has not receiving therapy for an autoimmune disease or chronic condition requiring treatment with a systemic immunosuppressant; Individual has a diagnosis of locally advanced or metastatic Urothelial Carcinoma (Label, NCCN 1, 2A); AND A. Individual is using as monotherapy; AND B. Individual is using as monotherapy; AND B. Individual is using as subsequent therapy; OR C. Individual has disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy; AND C. Individual has not received treatment with another anti PD-1 or anti-PD-L1 agent; AND | | Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: Font: Bold Formatted: No bullets or numbering | |

OR LII.

- Individual has a diagnosis of high risk non-muscle invasive (T1, high grade Ta, and/or carcinoma in situ [CIS]) Urothelial Carcinoma of the Bladder with or without papillary tumors (Label, NCT02625961, NCCN <u>2A</u>); AND
- A
- Individual has Bacillus Calmette-Guerin (BCG)- unresponsive disease defined as one of the following: 1. Persistent disease despite adequate BCG therapy (adequate defined as administration of at least 5 doses of an initial induction course plus either at least 2 doses of maintenance therapy or at least 2 doses of a second induction course); OR
 - Disease recurrence after an initial tumor-free state following adequate BCG therapy (adequate 2. defined as administration of at least 5 doses of an initial induction course plus either at least 2 doses of maintenance therapy or at least 2 doses of a second induction course); OR
 - T1 disease (i.e., tumor has spread to the connective tissue, but not the muscle) following a 3. single induction course of BCG; AND
- B. Individual is ineligible for cystectomy; AND
- Individual has not received treatment with another anti-PD-1 or anti-PD-L1 agent; AND C.
- Individual has a current ECOG performance status of 0-2; AND D.
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment Ε. with a systemic immunosuppressant;

OR LIII.LXI

Individual has a diagnosis of advanced, recurrent, or metastatic vulvar cancer; AND

- Individual is using as a single agent; AND Α.
- В. Individual has a tumor with PD-L1 gene expression with Combined Positive Score (CPS) of greater than or equal to 1 (CPS \geq 1); **AND**
- C. Individual has disease progression on or after chemotherapy; AND
- Individual is not receiving therapy for an autoimmune disease or chronic condition requiring treatment D. with a systemic immunosuppressant.

*Note: Actionable molecular markers include EGFR, ALK, ROS1, BRAF, NTRK, MET and RET mutations. The NCCN panel recommends testing prior to initiating therapy to help guide appropriate treatment. If there is insufficient tissue to allow testing for all of these markers, repeat biopsy and/or plasma testing should be done. If these are not feasible, treatment is guided by available results and, if unknown, these patients are treated as though they do not have driver oncogenes (NCCN 1, 2A).

Keytruda (pembrolizumab) may not be approved when the above criteria are not met and for all other indications.

Coding

The following codes for treatments and procedures applicable to this document are included below for informational purposes. Inclusion or exclusion of a procedure, diagnosis or device code(s) does not constitute or imply member coverage or provider reimbursement policy. Please refer to the member's contract benefits in effect at the time of service to determine coverage or non-coverage of these services as it applies to an individual member.

HCPCS

| J9271 | Injection, pembrolizumab, 1 mg [Keytruda] |
|------------------|---|
| ICD-10 Diagnosis | |
| C00.0-C76.8 | Malignant neoplasms |
| C4A.0-C4A.9 | Merkel Cell Carcinoma |
| C7B.00-C7B.8 | Secondary neuroendocrine tumors |
| C11.0-C11.9 | Malignant neoplasm of nasopharynx |
| C15.3-C15.5 | Malignant neoplasm of esophagus upper, middle, or lower third |
| C15.8-C15.9 | Malignant neoplasm of overlapping sites of esophagus |
| C16.0-16.9 | Malignant neoplasm of stomach |
| C17.0-C17.9 | Malignant neoplasm of small intestine |
| C18.0-C18.9 | Malignant neoplasm of colon |

| C19 | Malignant neoplasm of colon and rectum |
|-----------------|--|
| C20 | Malignant neoplasm of rectum |
| C21.0-C21.8 | Malignant neoplasm of anus, unspecified |
| C24.0-C24.9 | Malignant neoplasm of other and unspecified parts of biliary tract |
| C34.00-C34.92 | Malignant neoplasm of bronchus and lung |
| C37 | Malignant neoplasm of thymus |
| C43.0-C43.8 | Malignant melanoma of skin |
| C49.9 | Malignant neoplasm of connective and soft tissue, unspecified |
| C50.011-C50.919 | Malignant neoplasm of breast |
| C51.0-C51.9 | Malignant neoplasm of vulva |
| C53.0-C53.9 | Malignant neoplasm of cervix uteri |
| C54.1 | Malignant neoplasm of endometrium |
| C56.0-C56.9 | Malignant neoplasm of ovary |
| C64.1-C64.9 | Malignant neoplasm of kidney, except renal pelvis |
| C68.0 | Malignant neoplasm of urethra |
| C74.00-C74.02 | Malignant neoplasm of cortex of adrenal gland |
| C77.0-C79.9 | Secondary malignant neoplasms |
| C78.00-C78.02 | Secondary malignant neoplasm of lung |
| C78.6 | Secondary malignant neoplasm of retroperitoneum and peritoneum |
| C78.7 | Secondary malignant neoplasm of liver and intrahepatic bile duct |
| C80.0-C80.2 | Malignant neoplasm without specification of site |
| C81.10-C81.99 | Hodgkin lymphoma (classical) |
| C84.0 | Mycosis fungoides |
| C84.1 | Sezary disease |
| C85.20-C85.29 | Mediastinal (thymic) large B-cell lymphoma |
| D09.0-D09.19 | Carcinoma in situ of bladder and urinary organs |
| D37.8-D37.9 | Neoplasm of uncertain behavior of other specified digestive organs |
| Z85.00-Z85.59 | Personal history of malignant neoplasms |
| Z85.71 | Personal history of Hodgkin lymphoma |
| Z85.810-Z85.9 | Personal history of malignant neoplasms |
| | |

Document History

Revised: 05/17/2024

Document History: • 05/17/2024

05/17/2024 – Annual Review: Esophageal or Esophagogastric Junction Cancer: Add NCCN 2A criteria for use in unresectable locally advanced, recurrent, or metastatic disease that is MSI-H or dMMR positive or used in palliative therapy in those with HER2 negative cancer or squamous cell cancer. Gastric or Gastroesophageal junction Cancer: Update existing NCCN criteria for use in unresectable locally advanced, recurrent, or metastatic disease that is MSI-H or dMMR positive or as first-line treatment in HER2 positive/negative disease, clarified by PD-L1 CPS score. Gastric cancer: Add NCCN 2A criteria for metastatic or locally advanced disease in those with MSI-H/dMMR positive umors or HER2 negative disease. Melanoma: Clarify existing NCCN criteria in unresectable or metastatic cutaneous or uveal disease for to allow prior PD-1 or PD-L1 therapy in second-line/subsequent therapy. In existing NCCN criteria when Keytruda is used in combination with low-dose Yervoy, ensure prior Yervoy combination usage did not occur. Add NCCN 2A criteria for use in BRAF V600E mutation positive metastatic or unresectable cutaneous melanoma. Adrenal Gland tumor: Add NCCN 2A criteria for use in unresectable or metastatic adrenocortical cancer. Primary Mediastinal Large B-Cell Lymphoma: Clarify existing NCCN criteria to distinguish between monotherapy usage in adults and combination use in those 18 years and younger. Mycosis fungoides/Sezary Syndrome: Clarify existing NCCN criteria to include subsequent therapy use. Ovarian cancer: Add NCCN 2A criteria for use in platinum-resistant disease and in combination with cyclophosphamide and bevacizumab (or its biosimilars). Anaplastic large cell lymphoma: Add NCCN 2A criteria for use in ALCL with multifocal lesions or cutaneous ALCL as a single agent. Anaplastic thyroid disease: Add NCCN 2A criteria for use in metastatic disease in combination with lenvatinib. Add references. Wording and formatting updates. Coding Reviewed: Added ICD-10-CM C11.0-C11.9, C16.1-C16.9, C51.0-C51.9, C53.0-C53.9, C56.0-C56.9.

- 02/23/2024 Select Review: Add criteria for use of FDA approval in combination with chemoradiotherapy for the treatment of those with FIGO Stage III-IVA cervical cancer. Update existing criteria for use with enfortumab vedotin (Padcev) in urothelial carcinoma according to FDA label updates which removed requirements around cisplatin-containing chemotherapy. Add criteria for use in combination with Yervoy (ipilimumab) for advanced cutaneous melanoma for a total of four doses when used as second-line or subsequent therapy for progression following anti-PD-1 therapy. Coding Reviewed: No changes.
- 12/11/2023 Select Review: Add criteria for use in FDA approved use in advanced or metastatic biliary tract cancer in combination with carboplatin and paclitaxel. Update endometrial cancer to clarify NCCN use as a single agent in maintenance therapy for stage III-IV disease. Consolidate criteria for use in unresectable or metastatic solid tumors in RN XLIII and XLIV. Coding Reviewed: Added ICD-10-CM C24.0-C24.9.
- 11/19/2023 Select Review: Update RNXVIII to clarify use in monotherapy vs. combination therapy for HNSCC. Update criteria for use in Endometrial cancer and Renal cancer due to updates in NCCN guidelines and use in combination with lenvatinib. Added NCCN criteria for use in cutaneous melanoma in combination with lenvatinib. Add FDA indication for use in resectable Stage II, IIIA, or IIIB (N2) NSCLC as neoadjuvant therapy or adjuvant therapy. Coding Reviewed: No changes.
- 08/18/2023 Select Review: Update existing criteria for Stage IB,IIA or III NSCLC to remove language
 regarding prior neoadjuvant use or prior chemotherapy use. Add NCCN 1 criteria for use in advanced (Stage
 III-IV) endometrial cancer when used in combination with carboplatin and paclitaxel. Add NCCN 2A criteria for
 use in vulvar cancer. Coding Reviewed: No changes. Coding Reviewed: No changes.
- 05/19/2023- Annual Review: Update criteria to add NCCN 2A recommendations for metastatic anal cancer, relapsed or refractory primary cutaneous ALCL, malignant chemotherapy-resistant gestational trophoblastic neoplasia, first or subsequent line therapy in combination with platinum-containing chemotherapy and docetaxel in head and neck squamous cell carcinoma, subsequent therapy for endemic or classic Kaposi Sarcoma, clarification use in unresectable or metastatic melanoma when using as second-line or subsequent therapy, clarification for use metastatic melanoma with brain metastases when primary diagnosis includes BRAF non-specific melanoma, use in combination with brentuximab after a partial response to second-line therapy for Primary Mediastinal Large B-Cell Lymphoma, recurrent or refractory hypermutant tumor pediatric diffuse high-grade glioma, relapsed or refractory mycosis fungoides/sezary syndrome, and relapsed or refractory extranodal NK-T cell lymphomas. Add FDA approval for use in locally advanced or metastatic urothelial carcinoma in combination with Padev (enfortumab vedotin). Wording and formatting updates. Coding Reviewed: Added ICD-10-CM C68.0, C84.00-C84.09, C84.10-C84.19.
- 02/24/2023 Select Review: Add criteria for FDA label update in NSCLC for adjuvant therapy in stage IB, II, or IIIA disease. Coding Reviewed: Added ICD-10-CM C34.00-C34.92.
- 11/18/2022 Select Review: Add criteria for FDA label update in combination with lenvatinib for pMMR and not MSI-H individuals with advanced endometrial carcinoma in those with disease progression following prior chemotherapy and are not candidates for curative surgery or radiation. Coding Reviewed: No changes.
- 08/19/2022 Select Review: Old Business review. Update criteria to include combination use with Inlyta in soft tissue alveolar sarcoma.
- 05/20/2022- Annual Review: Update criteria for cutaneous squamous cell cancer to include use in regional new and recurrent disease. Update criteria for endometrial cancer, FDA approved use in MSI-H/dMMR individuals who have disease progression following prior systemic therapy in any setting and are not candidates for curative surgery or radiation. Update criteria for colorectal cancer to include locally advanced disease in subsequent therapy and advanced disease when used as first-line treatment. Update endometrial cancer to include dMMR/MSI-H and allow use as a single agent. Add criteria for use in HER2-positive disease of locally advanced unresectable, recurrent or metastatic esophageal or esophagogastric junction cancer as first-line treatment. Remove criteria for use in malignant pleural mesothelioma due to NCCN guidelines. Add criteria for use in non-clear cell RCC as single agent therapy for relapse or stage IV disease as systemic therapy. Coding Reviewed: No changes.
- 02/25/2022 Select Review: Update criteria for RCC for consistency according to Keynote trials. Coding Reviewed: No changes.
- 12/13/2021 Select Review: Update criteria to add FDA approval use in adjuvant treatment in Renal Cell Carcinoma at intermediate-high or high risk of recurrence following nephrectomy or following nephrectomy and resection of metastatic lesions. Also update FDA approved use in melanoma as adjuvant treatment in

those with Stage IIB, IIC or III melanoma following complete resection (and not only stage III). Coding Reviewed: Added ICD-10-CM C43.0-C43.8.

- 11/19/2021 Select Review: Update criteria to add use with paclitaxel and a platinum agent, with or without bevacizumab, in individuals with cervical cancer. No changes. Coding reviewed: No changes.
- 09/13/2021 Select Review: Update criteria to remove requirement of cisplatin ineligibility and CPS
- expression in locally advanced or metastatic urothelial carcinoma per label. Coding reviewed: No changes.
 08/20/2021 Select Review: Update criteria for cSCC to include use in locally advanced disease. Update
- criteria to add use in TNBC in the neoadjuvant/adjuvant setting. Coding reviewed: No changes.
 06/14/2021 Select Review: Update criteria to add first line use in combination with lenvatinib for renal cell
- carcinoma per guidelines. Wording and formatting updates. Coding Review: No changes.
 05/21/2021 Annual Review: Update criteria to add use in adrenocortical carcinoma as single agent or with mitotane per guidelines. Update criteria for esophageal cancer for combination use with platinum and fluoropyrimidine-based chemotherapy per label. Add criteria for use in HER2 positive gastric and gastroesophageal junction cancer in combination with trastuzumab, platinum agent, and fluoropyrimidine chemotherapy per label. Add criteria for brain metastases from melanoma or NSCLC per NCCN. Remove indication for SCLC per FDA withdrawal. Update use in urothelial carcinoma for subsequent therapy per NCCN. Update criteria to add use in soft tissue sarcoma per guidelines. Update NSCLC criteria to specify any actionable molecular marker with a note to further expand on definition and marker testing per NCCN. Clarify use in advanced and recurrent NSCLC disease per NCCN. Update criteria to allow use in thymic carcinomas for intolerance to first line regimens per NCCN. Coding Reviewed: Added ICD-10-CM C49.9, C74.00-C74.02.
- 12/14/2020 Select Review: Update criteria to add new indication for triple-negative breast cancer per FDA label. Update criteria to remove restriction for interstitial lung disease for consistency. Coding Reviewed: Added ICD-10-CM C50.01-C50.919.
- 08/21/2020 Select Review: Update criteria to add new indications for solid tumors with high tumor mutational burden, cutaneous squamous cell carcinoma, and first line therapy for dMMR/MSIH colorectal cancer per FDA label. Wording and formatting updates. Coding Reviewed: Added ICD-10-CM-C17.0-C17.9, C18.0-C18.9, C19, C20, C21.0-C21.8, C78.00-C78.02, C78.6, C78.7, C64.1-C64.9.
- 05/15/2020 Annual Review: Add new criteria for thymic carcinoma per NCCN 2A. Update criteria to add ROS1 and BRAF mutations for NSCLC per NCCN. Coding Reviewed: Added ICD-10-Dx: C37
- 02/21/2020 Select Review: Add new criteria per label for use of Keytruda in high risk non-muscle invasive (T1, high grade Ta, and/or carcinoma in situ [CIS]) Urothelial Carcinoma of the Bladder with or without papillary tumors. Clarify use in urothelial carcinoma as ineligible for any platinum-containing chemotherapy OR ineligible for cisplatin-containing chemotherapy with PD-L1 tumor testing. Wording and formatting changes. Coding Reviewed: Added ICD-10-CM D09.0-D09.19
- 11/15/2019 Select Review: Add new criteria for use of Keytruda in endometrial cancer. Coding reviewed: Added ICD-10 C54.1
- 08/16/2019 Select Review: Add new criteria for use in recurrent locally advanced or metastatic squamous cell esophageal cancer whose tumors express PD-L1 [Combined Positive Score (CPS) ≥ 10], with disease progression after one or more prior lines of systemic therapy. Update HNSCC criteria to reflect FDA expansion for Keytruda as first-line monotherapy with CPS of 1% or greater, and first line in combination with platinum/FU regardless of PD-L1 expression. Update SCLC criteria to reflect new FDA indication for use as subsequent therapy. For consistency, wording update to restrict use in those with prior use of anti-PD-1/PD-L1 agents. Coding reviewed: Added ICD-10 C15.3-C15.5, C15.8, C15.9, C16.0, D37.8, D37.9 for esophageal cancer per FDA label. Remove duplicate codes ICD-10 C64.1-C64.9.
- 06/10/2019 Select Review: Add new criteria for FDA update for use of Keytruda in advanced renal cell carcinoma. Coding Reviewed: Added ICD-10 C64.1-C64.9
- 05/17/2019– Annual Review: Initial review of Keytruda (pembrolizumab). Add new criteria for FDA update for use of pembrolizumab in those with locally advanced or metastatic stage 3 NSCLC and PD-L1 TPS of 1% or greater in those without EGFR and ALK genomic tumor aberrations. Wording and formatting changes. Coding Reviewed: No changes.

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