# MEDICAL POLICY



An independent licensee of the Blue Cross Blue Shield Association

MEDICAL POLICY D	ETAILS	
Medical Policy Title	Positron Emission Tomography (PET) Oncologic Applications	
Policy Number	6.01.29	
Category	Technology Assessment	
<b>Original Effective Date</b>	11/18/99	
Committee Approval Date	04/19/00, 04/19/01, 01/17/02, 10/16/02, 01/16/03, 08/21/03, 05/19/04, 08/18/05,	
	03/16/06, 04/19/07, 09/20/07, 08/21/08, 11/19/09, 04/22/10, 04/21/11, 09/20/12,	
	08/15/13, 04/17/14, 04/16/15, 04/21/16, 01/19/17, 12/21/17, 10/18/18, 06/20/19,	
	05/21/20, 05/20/21, 09/16/21, 03/24/22, 09/15/22, 08/17/23, 01/18/24	
<b>Current Effective Date</b>	04/15/24	
Archived Date	N/A	
Archive Review Date	N/A	
Product Disclaimer	<ul> <li>Services are contract dependent; if a product excludes coverage for a service, it is not covered, and medical policy criteria do not apply.</li> <li>If a commercial product (including an Essential Plan or Child Health Plus product), medical policy criteria apply to the benefit.</li> <li>If a Medicaid product covers a specific service, and there are no New York State Medicaid guidelines (eMedNY) criteria, medical policy criteria apply to the benefit.</li> <li>If a Medicare product (including Medicare HMO-Dual Special Needs Program (DSNP) product) covers a specific service, and there is no national or local Medicare coverage decision for the service, medical policy criteria apply to the benefit.</li> <li>If a Medicare HMO-Dual Special Needs Program (DSNP) product DOES NOT cover a specific service, please refer to the Medicaid Product coverage line.</li> </ul>	

## POLICY STATEMENT

- I. Based upon our criteria and assessment of the peer-reviewed literature, fluorodeoxyglucose (FDG) positron emission tomography (PET), or FDG PET integrated with computed tomography (FDG PET/CT), is considered **medically appropriate** in a small subset of patients with a high likelihood of cancer, when:
  - A. Conventional studies are non-diagnostic; and
  - B. It is used to determine the optimal site for biopsy.
- II. Based upon our criteria and assessment of the peer-reviewed literature, FDG PET/CT is considered medically appropriate for the following tumor-specific indications, when conventional imaging techniques, such as, but not limited to, ultrasound, computed tomography (CT), and/or magnetic resonance imaging (MRI), are inconclusive, and clinical management of the patient would differ depending on the stage of the cancer identified:

INDICATIONS		
A. <u>Adrenal Tumors</u>		
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 2 of 28

	1	
	<ul> <li>Restaging/Recurrence:</li> <li>a. PET/CT scan with any one of the following SSR radiotracers:</li> <li><sup>68</sup>Gallium DOTATATE, <sup>68</sup>Ga-DOTATOC or <sup>64</sup>Cu-DOTATATE for continued suspicion for recurrence with negative or inconclusive CT scan or MRI. <b>OR</b></li> <li>b. FDG PET/CT scan if prior CT scans and MRI are negative and/or inconclusive.</li> <li>G PET/CT scan if the isolated adrenal m we surgical resection or inconclusive fin</li> </ul>	<ul> <li>a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.</li> <li>ass is greater than 4 cm on conventional dings on conventional imaging.</li> </ul>
3. <u>Anal Cancer</u>	<u> </u>	
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. Stage II- III squamous cell carcinoma of the anal canal (not anal margin such as Bowen's disease or Paget's disease), and no evidence of metastatic disease by conventional imaging. OR</li> <li>b. Inconclusive findings on conventional imaging.</li> </ul>	a. Inconclusive findings on conventional imaging.	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
. Brain Tumors (e.g., astrocyton	na, oligodendroglioma)	
1. PET/CT scan is generally not in	ndicated for initial staging.	
2. Subsequent Treatment Strategie	s – Response to therapy/progression	
a. Suspicion of recurrence: May be the initial study is inconclusive.	e determined by PET or MRS. Only one	e technique should be performed unless
Low grade gliomas (World Health Organization (WHO) histologic grade I and II) High grade gliomas (WHO) histologic grade III and IV)	<ul> <li>suspected based on clinical symptomical sympt</li></ul>	om treatment effects such as radiation by; <b>OR</b> terminate nature when the PET whether biopsy/resection can be safely 78608); <b>OR</b> dings, when the PET findings will be psy or change in therapy, including a
PET perfusion imaging of the brain lack of impact on patient outcomes		n the brain stem, due to poor uptake and

PET perfusion imaging of the brain is not indicated in the evaluation or management of primary central nervous system (CNS) tumors.

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 3 of 28

## D Breast Carcinoma

1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
a. CT and bone scan inconclusive (please refer to insufficient evidence for PET listed below).	Restaging/Recurrence         a. Inconclusive CT, MRI, and/or         bone scan for suspected         recurrence, and further         characterization is needed to         make treatment decisions; OR         b. Bone metastasis as the only site         of stage IV disease (excluding         brain metastasis) and a prior bone         scan has not been performed for         serial comparison.	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
<ul><li>d. Not routinely indicated for surv evidence of disease; OR</li><li>e. Where obvious multi-organ met</li></ul>	ion; <b>OR</b> ; <b>OR</b> rable IIIA breast cancer prior to lymph r eillance imaging in an asymptomatic in castatic disease is present on CT or MRI es for preinvasive or in-situ breast cance	dividual with no clinical or laboratory; <b>OR</b>
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance

## Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 4 of 28

<ul> <li>a. PET/CT scan with any one of the following SSR radiotracers: <sup>68</sup>Gallium DOTATATE, <sup>68</sup>Ga-DOTATOC or <sup>64</sup>Cu-DOTATATE for inconclusive findings on CT or MRI scans. OR</li> <li>b. FDG PET/CT scan for the following indications: <ol> <li>Markers fail to normalize after complete surgical resection AND CT/MRI and somatostatin-receptor based study are negative; OR</li> <li>Biopsy proven neuroendocrine tumor of unknown primary site AND CT/MRI and somatostatin-receptor based study are negative.</li> </ol> </li> </ul>	a. <u>Restaging/Recurrence</u> : PET/CT scan with any one of the following SSR radiotracers: <sup>68</sup> Gallium DOTATATE, <sup>68</sup> Ga- DOTATOC or <sup>64</sup> Cu-DOTATATE for continued suspicion for recurrence with negative or inconclusive CT scan or MRI.	<ul> <li>a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.</li> </ul>
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. Stage IB1 or higher stages; OR</li> <li>b. Inconclusive findings on conventional imaging.</li> </ul>	Restaging after therapy: a. If primary therapy is radiation therapy with or without chemotherapy (no surgery), restage at least 12 weeks after completion of treatment; <b>OR</b> b. Suspected or biopsy proven recurrence.	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
G. <u>Colorectal Cancer</u>	1	
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. Isolated metastatic lesion(s) on other imaging and patient is a candidate for aggressive surgical resection, or other localized treatment to metastasis for curative intent. <b>OR</b></li> <li>b. Inconclusive findings on conventional imaging.</li> </ul>	<ul> <li>a. Isolated metastatic lesion(s) on other imaging and patient is a candidate for aggressive surgical resection, or other localized treatment to metastasis for curative intent; OR</li> <li>b. To differentiate local tumor recurrence from postoperative and/or post-radiation scarring. OR</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.

## Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29

Page:	5	of	28
-------	---	----	----

	c. Postoperative elevated or rising CEA or LFTs with negative recent conventional imaging.	
Appendiceal adenocarcinoma (incl cancer. H. Esophageal and Gastroesophag	uding pseudomyxoma peritonei) follow	's imaging guidelines for colorectal
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
a. If no evidence of metastatic disease by conventional imaging.	<ul> <li>Restaging after therapy:</li> <li>a. If conventional imaging inconclusive; OR</li> <li>b. Decision making after primary chemoradiation therapy prior to surgery (no sooner than 8 weeks post completion of radiation therapy); OR</li> <li>c. If a salvage surgical candidate with recurrence and no metastatic disease documented by conventional imaging.</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
. Ewing Sarcoma and Osteogeni	c Sarcoma	
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. Must have an established diagnosis of Ewing's sarcoma or osteogenic sarcoma is strongly suspected based on other diagnostic testing. OR</li> <li>b. PET/CT can replace bone scan and bone marrow biopsy in Ewing Sarcoma Family of Tumors (ESFT) and is indicated in the initial staging of ESFT patients after histological diagnosis is established.</li> </ul>	<ul> <li>a. Restaging after completion of therapy. OR</li> <li>b. Restaging after biopsy-confirmed recurrence. OR</li> <li>c. Restaging after 10-12 weeks of neoadjuvant chemotherapy prior to local control surgery. OR</li> <li>d. Treatment response following local control surgery at the end of planned chemotherapy. OR</li> <li>e. Metastatic disease does not routinely undergo local control surgery unless metastatic disease has resolved with chemotherapy every two cycles during treatment and at the end of planned chemotherapy. OR</li> </ul>	a. PET/CT has no established role for asymptomatic surveillance.
	For suspected recurrence, any of the following:	

## Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 6 of 28

	<ul> <li>a. Conventional imaging reveals findings that are inconclusive or suspicious for recurrence and PET avidity will determine whether biopsy or continued observation is appropriate. OR</li> <li>b. Rare circumstances where obvious clinical symptoms show strong evidence suggesting recurrence and PET imaging could result in a treatment change for the patient, including a change from active treatment to surveillance. OR</li> <li>c. For biopsy proven recurrence, PET/CT may be performed.</li> </ul>	
J. <u>Gastric Carcinoma</u>		
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
a. Gastric cancer greater than or equal to T2 or higher with no metastatic disease by conventional imaging.	a. Restaging/recurrence: For evaluation of inconclusive findings on conventional imaging.	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
K. <u>GIST Tumor (Gastrointestinal</u>	Stromal Tumor)	
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
a. For evaluation of inconclusive findings on conventional imaging.	<ul> <li>a. Monitoring response to therapy: For evaluation of inconclusive findings on conventional imaging. OR</li> <li>b. Restaging/recurrence: For evaluation of inconclusive findings on conventional imaging.</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
L. <u>Hepatocellular (HCC)/Gallbla</u>	dder/Biliary	
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
a. PET/CT scan is not indicated for diagnosis or staging of Hepatocellular carcinoma. <b>OR</b>	Restaging/recurrence for gallbladder and biliary carcinoma:	<ul> <li>a. Not routinely indicated for surveillance imaging for HCC/Gallbladder/Biliary Carcinoma in an asymptomatic</li> </ul>

## Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 7 of 28

	imaging.	
. Head and Neck Cancers (Squ	amous Cell Carcinomas)	
. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>For any of the following:</li> <li>Known stage III or IV disease; OR</li> <li>Nasopharyngeal primary site; OR</li> <li>Inconclusive findings on conventional imaging (CT, MRI); OR</li> <li>Prior to start of primary chemoradiotherapy and have not undergone definitive surgical resection; OR</li> <li>In order to direct laryngoscopy/exam under anesthesia for biopsy; OR</li> <li>Pulmonary nodule(s) greater than or equal to 8 mm in size; OR</li> <li>Cervical lymph node biopsy positive for squamous cell carcinoma and no primary site identified on CT or MRI of neck and chest; OR</li> <li>Prior to biopsy in order to determine a more favorable site for biopsy when a prior biopsy was nondiagnostic or a relatively inaccessible site is contemplated which would require invasive surgical intervention for biopsy attempt; OR Inconclusive findings suggestive of disease outside the head and neck area.</li> </ul>	<ul> <li>a. Stage III-IV disease: Following primary radiochemotherapy or radiation therapy in an individual who has not undergone surgical resection of primary tumor or neck dissection: no sooner than 10 weeks when the clinical indicates an aggressive form of cancer; otherwise, 12 weeks after completion of treatment, as recommended by NCCN when:</li> <li>i. Evaluating the need for salvage surgery/radical neck dissection in patients with measurable residual disease on physical exam or recent CT or MRI; OR</li> <li>ii. Distinguishing active tumor from radiation fibrosis; OR</li> <li>iii. Inconclusive conventional imaging (CT or MRI) or biopsy proven local recurrence.</li> </ul>	<ul> <li>a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.</li> </ul>

## Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 8 of 28

1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ol> <li>Initial Staging</li> <li>Pulmonary nodule 8 mm (0.8 cm) to 30 mm (3 cm) seen on CT Chest or MRI Chest (If PET is positive: qualifies as initial staging PET/CT). OR</li> <li>Pulmonary mass 31 mm (3.1 cm) or greater seen on CT or MRI (PET/CT prior to biopsy if one or more of the following applies:         <ol> <li>Definitive treatment with resection or radiation will be utilized instead of biopsy if PET confirms limited disease.</li> <li>Multiple possible biopsy options are present within the chest and PET findings will be used to determine the most favorable biopsy site.</li> <li>After tissue diagnosis is established:                 <ul> <li>Stage I-IIIB.</li> <li>Stage IV confined to the chest region (including pleural/pericardial effusion).</li> <li>Stage IV with oligometastatic disease on conventional imaging and patient is a candidate for aggressive surgical resection or other localized treatment of metastases with a curative intent.</li> <li>Conventional imaging is inconclusive.</li> <li>PET is not generally indicated for initial staging or restaging of NSCLC with distant</li> </ul> </li> </ol></li></ol>	– Response to therapy/	3. Surveillance a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
metastatic disease, pleural/pericardial effusion, or for multiple sites that are located outside the chest cavity, when found on conventional imaging (i.e.,		

## Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 9 of 28

<ul> <li>liver, bone and adrenal metastasis, etc.). OR</li> <li>e. PET may be considered to confirm solitary focus of extra-pulmonary metastatic disease (i.e., brain or adrenal) if the individual is being considered for an aggressive oligometastatic disease.</li> <li>Small Cell Lung Cancer</li> </ul>		
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. Confirm limited stage (nonmetastatic) disease if initial staging imaging (CT and MRI) shows disease limited to the thorax.</li> <li>b. Pulmonary nodule 8 mm (0.8 cm) to 30 mm (3 cm) seen on CT Chest or MRI Chest (If PET is positive: qualifies as initial staging PET/CT).</li> </ul>	Response to Therapy/Restaging: a. PET is not indicated for evaluation of recurrent SCLC.	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
O. Lymphoma, Hodgkin Disease		
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. PET may be used as the initial imaging technique for staging. OR</li> <li>b. Determine a more favorable site for biopsy when a relatively inaccessible site is contemplated. OR</li> <li>c. PET/CT is medically unnecessary for all other indications prior to histological confirmation of lymphoma. OR</li> </ul>	<ul> <li>a. Monitoring response to therapy as frequently as every two cycles. OR</li> <li>b. At end of chemotherapy and again at end of radiation (at least 12 weeks after radiation therapy completion). OR</li> <li>c. Biopsy proven recurrence. OR</li> <li>d. Suspected recurrence: Nodular Lymphocyte – Predominant Hodgkin Lymphoma; Suspected transformation (Richter's) from a low-grade lymphoma to a more aggressive type based on one or more of the following: <ol> <li>New B symptoms; OR</li> <li>Rapidly growing lymph nodes; OR</li> <li>Extranodal disease develops; OR</li> </ol> </li> </ul>	<ul> <li>a. A single follow-up PET/CT may be approved if end of therapy PET/CT shows Deauville 4 or 5 FDG avidity.</li> </ul>

## Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 10 of 28

Chronic Lymphocytic Leukemia	(CLL)/Small Lymphocytic Lymphor	na (SLL)
PET imaging is not indicated in the ransformation.	e evaluation of CLL/SLL, with the exce	ption of suspected Richter's
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. Not routinely indicated for initial staging.</li> </ul>	<ul> <li>a. Suspected transformation (Richter's) from a low-grade lymphoma to a more aggressive type based on one or more of the following: <ol> <li>New B symptoms; OR</li> <li>Rapidly growing lymph nodes; OR</li> <li>Extranodal disease develops; OR</li> <li>Significant recent rise in LDH above normal range.</li> </ol> </li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
Diffuse Large B Cell		
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. PET may be used as the initial imaging technique for staging/diagnosis.</li> </ul>	<ul> <li>a. Treatment response for all stages after 3-4 cycles of chemotherapy.</li> <li>c. At the end of chemotherapy and/or again at the end of radiation therapy. OR</li> <li>d. Suspected recurrence or biopsy confirmed recurrence. OR</li> <li>e. CAR-T cell therapy: Once before treatment and once 30-60 days after completion of treatment.</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
Follicular Lymphoma with WHC	) grade of 1 (low) or 2 (intermediate)	
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>For any of the following:</li> <li>a. Stage I or II disease when radiation therapy is being considered; <b>OR</b></li> <li>b. If systemic therapy is planned; <b>OR</b></li> </ul>	<ul> <li>a. Monitoring response to therapy; End of therapy evaluation. OR</li> <li>b. Suspicion of progression; suspected transformation (Richter's) from a low-grade lymphoma to a more aggressive</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 11 of 28

c. Pediatric-type follicular lymphoma in adults.	<ul> <li>type based on one or more of the following: <ol> <li>New B symptoms; OR</li> <li>Rapidly growing lymph nodes; OR</li> </ol> </li> <li>Extranodal disease develops; OR</li> <li>Significant recent rise in LDH above normal range.</li> </ul>	
Marginal Zone		
1. Initial Staging/Diagnosis	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>PET/CT for either of the following:</li> <li>a. If radiation therapy is being considered for stage, I or II disease; OR</li> <li>b. If systemic therapy is planned.</li> </ul>	<ul> <li>a. End of therapy evaluation. OR</li> <li>b. Suspected recurrence in rare circumstances such as bone involvement.</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
Mantle Cell		
1. Initial Staging/Diagnosis	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
a. PET/CT may be used as the initial imaging technique for staging.	<ul> <li>a. PET/CT can be considered for end of therapy evaluation. OR</li> <li>b. PET/CT can be considered in rare circumstances such as bone involvement.</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
Burkitt's		
1. Initial Staging/Diagnosis	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
b. PET may be used as the initial imaging technique for staging.	<ul> <li>a. End of chemotherapy and again at the end of radiation therapy. OR</li> <li>b. Suspected recurrence in rare circumstances such as bone involvement.</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
Lymphomas, Mycosis Fungoide	nas (includes Primary Cutaneous B C s/Sézary Syndrome, Anaplastic Larg , and Primary Cutaneous CD30+T C	e Cell Lymphoma,
1. Initial Staging/Diagnosis	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
a. PET may be used as the initial imaging technique for staging.	<ul><li>a. Monitoring response to therapy:</li><li>i. After 3-4 cycles. <b>OR</b></li></ul>	a. Not routinely indicated for surveillance imaging in an

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 12 of 28

	<ul> <li>ii. At the end of chemotherapy and again at the end of radiation therapy. <b>OR</b></li> <li>iii. Suspected recurrence in rare circumstances such as bone involvement.</li> </ul>	asymptomatic individual with no clinical or laboratory evidence of disease.
Q. <u>Melanoma</u>		
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. Primary site is unknown and CT chest and abdomen/pelvis are negative. OR</li> <li>b. Any of the following: Stage III (sentinel node positive and palpable regional nodes or Stage IV (metastatic).</li> </ul>	a. When conventional imaging is inconclusive or isolated metastatic based on results of conventional imaging, initially.	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
R. <u>Metastatic (Lung, Liver, Brain</u>	and Adrenal)	
<ol> <li>Lung – lung nodules greater the conventional imaging.</li> <li>Liver – to confirm solitary meta markers continue to rise, and C ablation therapy regardless of t</li> <li>Brain - metastases and no know stable systemic disease or absen with recent MRI Brain and MR progression.</li> </ol>	astasis amenable to resection on conver T and MRI are negative. PET scan is n he modality of ablation. wn primary tumor; inconclusive conven nce of other metastatic disease. Brain n & Perfusion studies both unable to distin	tary metastasis amenable to resection on ntional imaging; or LFT's and/or tumor ot indicated for assessing the response to tional imaging; or to confirm either netastases treated with radiation therapy,
S. <u>Multiple Myeloma and Plasma</u>	cytomas	
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 13 of 28

<ul> <li>After completion of skeletal CT and MRI scans, PET/CT for:</li> <li>a. Determine if plasmacytoma is truly solitary. OR</li> <li>b. Suspected extraosseous plasmacytomas. OR</li> <li>c. Suspected progression of monoclonal gammopathy of unknown significance (MGUS) or SMM to a more malignant form and CT/MRI imaging are negative; OR</li> <li>d. Whole body skeletal CT and MRI bone marrow are negative, inconclusive or not feasible.</li> </ul>	<ul> <li>a. When a negative PET will allow change in management from active treatment to maintenance or surveillance. OR</li> <li>b. Inconclusive findings on conventional imaging.</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
T. <u>Neuroendocrine Cancers – Gas</u>	strointestinal/Pancreatic	
<ol> <li>Initial Staging</li> <li>Initial Staging</li> <li>PET/CT scan with any one of the following SSR radiotracers: <sup>68</sup>Gallium DOTATATE, <sup>68</sup>Ga- DOTATOC or <sup>64</sup>Cu-</li> </ol>	<ul> <li>2. Subsequent Treatment Strategies         <ul> <li>Response to therapy/progression</li> </ul> </li> <li><u>Restaging/Recurrence</u>:         <ul> <li>a. PET/CT scan with any one of the following SSR radiotracers:             <ul> <li><sup>68</sup>Gallium DOTATATE, <sup>68</sup>Ga- DOTATOC or <sup>64</sup>Cu-</li> </ul> </li> </ul> </li> </ul>	<ul> <li>3. Surveillance</li> <li>a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.</li> </ul>
<ul> <li>DOTATATE for continued suspicion with negative/inconclusive findings on CT scan or MRI. OR</li> <li>b. FDG PET/CT scan for the following indications: <ol> <li>Markers fail to normalize after complete surgical resection AND CT/MRI and somatostatin-receptor based study are negative;</li> </ol> </li> </ul>	<ul> <li>DOTATATE for:</li> <li>i. Continued suspicion for recurrence with negative or inconclusive CT scan or MRI; OR</li> <li>ii. To assess candidacy for peptide receptor radionuclide therapy (PRRT) with Lutetium <sup>177</sup>Lu-dotatate.</li> </ul>	
<ul> <li>Biopsy-proven neuroendocrine tumor of unknown primary site AND CT/MRI and somatostatin-receptor based study are negative.</li> </ul>		
U. <u>Ovarian Carcinoma</u>		
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance

## Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 14 of 28

<ul> <li>a. Primary peritoneal disease with biopsy-proven malignancy consistent with ovarian carcinoma. OR</li> <li>b. Elevated tumor markers with negative or inconclusive CT imaging.</li> </ul>	<ul> <li><u>Restaging/Recurrence</u>:</li> <li>a. CT negative or inconclusive and CA-125 continues to rise or elevated LFTs. <b>OR</b></li> <li>b. Conventional imaging failed to demonstrate tumor or if persistent radiographic mass with rising tumor markers.</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
V. <u>Pancreatic Carcinoma</u>		<u> </u>
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. No evidence of metastatic disease on CT or MRI and any of the following high- risk features: <ol> <li>Borderline resectable disease</li> <li>Markedly elevated CA19-9</li> </ol> </li> <li>iii. Large primary tumor(s) iv. Enlarged regional lymph nodes</li> </ul>	<ul> <li>a. Not routinely indicated for response to therapy/progression imaging.</li> </ul>	<ul> <li>b. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.</li> </ul>
W. <u>Prostate Cancer</u>		
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. PET/CT scan using any ONE of the following radiotracers:</li> <li><sup>68</sup>Ga PSMA-11</li> <li><sup>18</sup>F Piflufolastat (Pylarify)</li> <li><sup>68</sup>Ga Gozetotide (Illuccix and Locametz)</li> <li><sup>18</sup>F Flotufolastat (Posluma)</li> <li>For:</li> <li>Localized prostate cancer with any of the following NCCN Risk Groups: Unfavorable Intermediate Risk, High Risk or Very High Risk.</li> <li>b. PET/CT scan using any ONE of the following radiotracers:</li> <li><sup>18</sup>F-Fluciclovine</li> <li><sup>11</sup>C Choline</li> <li><sup>68</sup>Ga PSMA-11</li> </ul>	<ul> <li>a. PET/CT scan using any one of the following radiotracers:</li> <li><sup>68</sup>Ga PSMA-11</li> <li><sup>18</sup>F Piflufolastat (Pylarify)</li> <li><sup>68</sup>Ga Gozetotide (Illuccix and Locametz)</li> <li><sup>18</sup>F Flotufolastat (Posluma)</li> <li>For:</li> <li>Non-metastatic prostate cancer previously treated with prostatectomy or radiation therapy, and ALL of the following are met:</li> <li>PSA rises on two (2) consecutive measurements above post-treatment baseline AND</li> <li>PSA ≥0.5 ng/mL AND</li> <li>Individual is a candidate for salvage local therapy.</li> </ul>	<ul> <li>a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.</li> </ul>

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 15 of 28

•	<sup>68</sup> Ga Gozetotide (Illuccix	b. PET/CT scan using any one of
•	and Locametz) <sup>18</sup> F Flotufolastat (Posluma)	the following radiotracers: • <sup>18</sup> F-Fluciclovine
For:	(	• <sup>11</sup> C Choline
•	Inconclusive bone findings	• <sup>68</sup> Ga PSMA-11
	on both CT/MRI and bone	• <sup>18</sup> F Piflufolastat (Pylarify)
	scan.	• <sup>68</sup> Ga Gozetotide (Illuccix and
•	Conventional imaging	Locametz)
	studies (CT and bone scan)	• <sup>18</sup> F Flotufolastat (Posluma)
	suggests oligo- or low	For:
	volume metastatic disease that need further	Non-metastatic prostate cancer
	confirmation.	previously treated with
	commutation.	prostatectomy or radiation therapy, and <b>ALL</b> of the following are met:
		• PSA rises on two
		consecutive measurements
		above post-treatment
		baseline; AND
		• $PSA \ge 1 \text{ ng/mL}; \text{ AND}$
		• Recent CT scan and bone
		scan are negative for
		metastatic disease; <b>AND</b>
		• Individual is a candidate for
		salvage local therapy.
		c. PSMA PET scan using <b>ONE</b> of
		the following radiotracers:
		• ${}^{68}$ Ga PSMA-11
		• <sup>18</sup> F Piflufolastat (Pylarify)
		• <sup>68</sup> Ga Gozetotide (Illuccix and Locametz)
		<ul> <li><sup>18</sup>F Flotufolastat (Posluma)</li> </ul>
		Friotulolastat (Fostulla)
		Previously treated metastatic cancer
		progressed on conventional imaging
		and being considered for <sup>177</sup> Lu-
		PSMA-617 (Pluvicto) treatment.
		d. PET/CT scan using any one of
		the following radiotracers:
		• <sup>18</sup> F-Fluciclovine
		• <sup>11</sup> C Choline
		• <sup>68</sup> Ga PSMA-11
		<ul> <li><sup>18</sup>F Piflufolastat (Pylarify)</li> <li><sup>68</sup>Ca Constantiala (Illusian and</li> </ul>
		• <sup>68</sup> Ga Gozetotide (Illuccix and
		Locametz) • <sup>18</sup> F Flotufolastat (Posluma)
		For:
		i. Inconclusive bone findings
		on both CT/MRI and bone
		scan.

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 16 of 28

PET/CT scans using <sup>18</sup> F-FDG radio	studies (CT and bone scan) suggests oligo- or low volume metastatic disease that needs further confirmation.	for all indications for prostate cancer.
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. PET/CT may be used for either of the following:</li> <li>i. Grade of tumor in doubt following biopsy. OR</li> <li>ii. Conventional imaging suggests solitary metastasis amenable to surgical resection.</li> </ul>	Restaging/Recurrence         a. PET/CT may be used for ANY         of the following:         i. Differentiate tumor from         radiation or surgical         fibrosis. OR         ii. Determine response to         neoadjuvant therapy. OR         iii. Confirm oligometastatic         disease prior to curative         intent surgical resection.	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
7. <u>Solitary Pulmonary Nodule</u>		1
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. Pulmonary nodule 8 mm (0.8 cm) to 30 mm (3 cm) seen on CT Chest or MRI Chest. OR</li> <li>b. If PET is positive: qualifies as initial staging PET/CT. OR</li> <li>c. Prior to biopsy of pulmonary mass greater than 3.1 cm (31 mm) seen on CT or MRI when: <ol> <li>Definitive treatment with resection or radiation would be performed instead of biopsy if PET confirms limited disease; OR</li> <li>Multiple possible biopsy options are present within the chest and PET findings will be used to determine the most favorable biopsy site.</li> </ol> </li> </ul>	<ul> <li>a. Not routinely indicated for response to therapy/ progression imaging.</li> </ul>	<ul> <li>a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.</li> </ul>

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 17 of 28

Multiple nodules are not covered by these criteria, unless one is significantly larger than the others or is new since a prior chest x-ray. Such a lesion should be treated as a solitary nodule.

1. Initial Staging	2. Subsequent Treatment Strategies	3. Surveillance
1. Initial Staging	<ul> <li>– Response to therapy/ progression</li> </ul>	5. Survemance
a. Investigational	<ul> <li>a. Monitoring response to therapy</li> <li>- Seminoma with residual mass greater than 3 cm after completion of chemotherapy.</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
PET/CT scan is not indicated for e	valuation of non-seminomatous germ co	ell tumors.
AA. <u>Thoracic Tumors</u>		
Malignant Pleural Mesothelion	<u>na</u>	
1. Initial Workup/Staging	2. Subsequent Treatment Strategies – Restaging	3. Surveillance
<ul> <li>a. Cytologically OR pathologically proven.</li> <li>i. if no evidence of metastatic disease; OR</li> <li>ii. inconclusive conventional imaging.</li> </ul>	a. Following induction chemotherapy prior to surgical resection if no evidence of metastatic disease.	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
Thymoma		I
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
a. To evaluate inconclusive findings on CT.	<ul> <li>b. To evaluate inconclusive findings on CT. OR</li> <li>c. Following induction chemotherapy prior to surgical resection if no evidence of metastatic disease.</li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
BB. <u>Thyroid Cancers</u>		
Follicular, Papillary and Hur	thle Cell Carcinomas	
1. Initial Staging	2. Subsequent Treatment Strategies – Restaging/Recurrence	3. Surveillance
<ul> <li>Routine preoperative advanced imaging is not indicated.</li> </ul>	a. Negative CT scan and radioiodine scan and rising thyroglobulin level and radioiodine scan; <b>OR</b>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.

## Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 18 of 28

	b. Known radioiodine-refractory disease and CT scans are negative or inconclusive.	
Medullary Thyroid Carcinom	<u>a</u>	
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. <sup>68</sup>Gallium DOTATATE PET/CT scan:</li> <li>i. To evaluate inconclusive finding on conventional imaging.</li> </ul>	<ul> <li>a. <sup>68</sup>Gallium DOTATATE PET/CT scan:         <ol> <li>To evaluate inconclusive conventional imaging with calcitonin greater than or equal to 150 pg per mL.</li> </ol> </li> </ul>	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
Anaplastic Thyroid Carcinoma		
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
<ul> <li>a. To evaluate inconclusive finding on conventional imaging.</li> </ul>	a. Signs and symptoms of recurrence.	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
CC. <u>Transitional Cell: Bladder/</u>	Ureters/Urethra/Renal Pelvis	
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
a. To evaluate inconclusive findings on conventional imaging.	Restaging/Recurrence: a. To evaluate inconclusive findings on conventional imaging.	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.
DD. <u>Unknown (Occult) Primary</u>	Site	
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 19 of 28

EE. <u>Uterine Cancer</u>		
1. Initial Staging	2. Subsequent Treatment Strategies – Response to therapy/ progression	3. Surveillance
a. To evaluate inconclusive findings on conventional imaging.	a. To evaluate inconclusive findings on conventional imaging.	a. Not routinely indicated for surveillance imaging in an asymptomatic individual with no clinical or laboratory evidence of disease.

- III. Based upon our criteria and assessment of the peer-reviewed literature, the use of PET scans are considered **investigational** for all other indications, including, but not limited to:
  - A. Lymphadenopathy: evaluation of enlarged lymph node(s) when there is no diagnosis of cancer;
  - B. Other neoplasms, such as endometrial carcinoma, musculoskeletal extremities, renal, and parathyroid; and
  - C. Acute lymphoblastic leukemia, acute myeloid leukemia, and chronic myeloid leukemia.
- IV. Based upon our criteria and assessment of the peer-reviewed literature, PET imaging using <sup>18</sup>F-FDG isotope is considered **medically appropriate**, as are the following radiotracers with indications listed:
  - A. <sup>68</sup>Gallium DOTATATE (NETSPOT) for low-grade neuroendocrine tumors and medullary thyroid cancer;
  - B. <sup>64</sup>Cu-DOTATATE (DETECTNET) (HCPCS A9592) for low-grade neuroendocrine tumors; or
  - C. <sup>68</sup>Ga-DOTA-TOC (HCPCS C9067) for low-grade neuroendocrine tumors; or
  - D. <sup>11</sup>C Choline for prostate cancer; or
  - E. <sup>18</sup>F-Fluciclovine (AXUMIN) for prostate cancer; or
  - F. <sup>68</sup>Ga PSMA-11 (HCPCS A9593 and A9594) for prostate cancer; or
  - G. <sup>18</sup>F Piflufolastat PSMA (Pylarify) (HCPCS A9595) for prostate cancer; or
  - H. <sup>68</sup>Ga Gozetotide (Illuccix (HCPCS A9596) and Locametz (HCPCS A9800) for prostate cancer.
  - I. <sup>18</sup>F Flotufolastat (Posluma) (HCPCS A9608) for prostate cancer.
- V. Based upon our criteria and assessment of the peer-reviewed literature, PET/CT scans using the following listed radiotracer is considered **investigational**:
  - A. <sup>18</sup>F Fluoroestradiol (HCPCS A9591)
- VI. Based upon our criteria and assessment of the peer-reviewed literature, PET scans should be delayed at least twelve weeks after completion of radiation treatment, unless required sooner for imminent surgical resection.

#### VII. MOLECULAR COINCIDENCE DETECTION is considered investigational as an alternative to PET.

Refer to Corporate Medical Policy #6.01.07 Positron Emission Tomography Non-Oncologic Applications

Refer to Corporate Medical Policy #6.01.19 Low-dose Computed Tomography (LDCT) for Lung Cancer Screening

Refer to Corporate Medical Policy #11.01.03 Experimental or Investigational Services

Refer to Corporate Medical Policy #11.01.10 Clinical Trials

## **POLICY GUIDELINES**

- I. Requests for suspected recurrence should include changes in the clinical status of patient leading to the suspicion (e.g., new symptoms, elevated tumor markers or other laboratory changes).
- II. Except for the indications listed in the Policy Statement section, PET is NOT indicated:
  - A. Concomitantly, with separate diagnostic CT studies; or
  - B. For surveillance; or
  - C. For distant or diffuse metastatic disease; or
  - D. For metastatic disease in the central nervous system (CNS); or
  - E. For lesions less than 8 mm in size; or

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 20 of 28

- F. For follow-up after localized therapy (e.g., radiofrequency ablation, embolization, or stereotactic radiation).
- III. PET has not been shown to be diagnostically useful in all forms of cancer. PET is supported for malignancies with significant published evidence regarding its diagnostic accuracy and importance in accurately directing patient care decisions.
- IV. PET imaging is not specific to cancer and has a high rate of false positivity. Inflammation, infection (especially granulomatous), trauma, and post-operative healing may show high levels of FDG uptake and be false-positive for malignant lesions.
- V. PET may be considered prior to biopsy to determine a more favorable site for biopsy when a prior biopsy was nondiagnostic or when a relatively inaccessible site is contemplated that would require invasive surgical intervention for biopsy attempt.
- VI. PET for Radiation Therapy Planning may be considered when ordered by a radiation oncologist prior to initiation of treatment for one of the cancers listed in Policy Statement II: Indications Grid.

## **DESCRIPTION**

The indications for PET for neoplasms are usually divided into either initial strategy or subsequent treatment strategies. For the purpose of this policy, the initial strategy and subsequent treatment strategy may include any of the following components:

- I. Initial Strategy (e.g., diagnosis and staging):
  - A. A known diagnosis of malignancy to determine the optimal anatomic site for additional biopsy or other invasive diagnostic procedure;
  - B. Initial Staging: Must have established tissue diagnosis;
  - C. To establish the diagnosis of malignancy in a patient where the findings on other imaging modalities are inconclusive; **AND**
  - D. The PET results may assist in avoiding an invasive diagnostic procedure:
    - 1. In patients without established malignancy in select circumstances where the likelihood of malignancy is high; or
    - 2. In patients with known malignancy, and tumor characteristics are unique (related to specific tumor detail below, e.g., pancreatic and solitary pulmonary nodule).
- II. Subsequent treatment strategies (staging and restaging):
  - A. Routine monitoring of tumor response during treatment when a change in therapy is planned;
  - B. Staging after completion of therapy to detect residual disease;
  - C. Suspicion of progression, recurrence and/or to determine extent of recurrence; (e.g., new symptoms, elevated tumor markers, or other laboratory changes, and changes on other imaging). Requests for suspected recurrence should include changes in the clinical status of the patient leading to the suspicion; or
  - D. Surveillance, which is defined as a study performed beyond the completion of treatment, for asymptomatic or chronic stable symptoms with no clinical suspicion of change in disease status and not receiving active treatment for the purpose of detecting recurrence or progression or predicting outcome. Surveillance may or may not be indicated, depending on the tumor type.

<u>Positron Emission Tomography (PET)</u> is an imaging technology that can reveal both metabolic and anatomical information in various tissue sites. The metabolic information is what distinguishes it from other imaging modalities such as magnetic resonance imaging (MRI) and computed tomography (CT), which provide primarily anatomic information. PET scans measure concentrations of radioactive chemicals that are partially metabolized in the body region of interest. PET scans are based on the use of positron-emitting radionuclide tracers coupled to organic molecules, such as glucose, ammonia, or water. The clinical value of PET scans is related both to the ability to image the relative metabolic activity of target tissues and the resolution associated with PET scanners. Dedicated PET scanners consist of multiple detectors arranged in a full or partial ring around the patient, permitting the simultaneous detection of the high-energy paired photons that are emitted at 180 degrees from one another.

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 21 of 28

A variety of radiotracers, intravenously injected or inhaled, are used for PET scanning, including oxygen-15, nitrogen-13, carbon-11, rubidium-82 and fluorine-18. The radiotracer most used in oncology imaging has been fluorine-18 coupled with fluorodeoxyglucose (FDG), which has a metabolism related to glucose metabolism. FDG has been considered potentially useful in cancer imaging, as tumor cells show increased metabolism of glucose. The most common malignancies studied have been melanoma, lymphoma, lung, and colorectal. Researchers continue to develop and investigate new radiotracers for PET scan imaging. Somatostatin receptors (SSRs or SSTRs) are present on the cell surface of neuroendocrine cells, providing a unique and specific molecular target for imaging. Prostate-specific membrane antigen (PSMA) is a transmembrane protein present in all prostatic tissues and almost all prostate adenocarcinomas show PSMA expression in both primary and metastatic lesions. PSMA-targeted PET imaging is being utilized for the detection of prostate cancer. SSR PET radiotracers as well as PSMA PET radiotracers are now receiving FDA approval as well as National Comprehensive Cancer Network (NCCN) recommendations. The most recent radiotracer approved by the FDA is F-18 flotufolastat PSMA is a PET imaging agent that is part of a novel class of tracers referred to as radio hybrid (rh) ligands. These rh ligands have the unique advantage of offering two binding sites for radiounclides (i.e., F-18 or Ga-68) which increases its flexibility in imaging. In addition, the presence of a chelator in these rh ligands also allows for chelation of Lu-177 for its use as a theranostic as well as imaging agent.

PET has not been shown to be diagnostically useful in all forms of cancer. PET imaging is not specific to cancer and has a high rate of false positivity. Inflammation, infection (especially granulomatous), trauma, and post-operative healing may show high levels of FDG uptake and be false-positive for malignant lesions.

#### Molecular Coincidence Detection (MCD)

PET using a gamma camera is a general term describing imaging techniques in which a SPECT gamma camera is used to detect photons emitted from decaying positrons associated with the metabolism of radiolabeled FDG. It produces images similar to those produced by a PET scanner. This technique is also referred to as FDG-SPECT, metabolic SPECT, FDG-collimated SPECT or dual-head-coincidence SPECT (FDG-DHC-SPECT). Researchers have begun to investigate whether the more readily available SPECT cameras, routinely used to detect low-energy photons, could be adapted for use to detect higher energy photons.

FDG-collimated-SPECT screens out lower energy photons, thus only detecting the high-energy photons; however, this approach decreases sensitivity and resolution compared to that associated with PET scanners. FDG-dual head coincidence-SPECT, operated in the "coincidence mode," (the camera will only count those photons that are simultaneously detected at 180 degrees from one another) more closely resembles a PET scanner. However, the lower number of detectors in the SPECT approach compared detectors used in PET imaging will result in a relative loss of sensitivity and resolution.

Combined positron emission tomography and computed tomography (PET/CT) is a form of PET scanning that has similar clinical applications.

## RATIONALE

The U.S. Food and Drug Administration (FDA) has approved the scanner and imaging hardware for PET as being substantially equivalent to x-ray CT. The FDA requires PET radiotracers to be approved through a new drug approval (NDA) process. Because PET radiotracers have an extremely short half-life, they must be produced in the clinical setting; the FDA also regulates drug manufacturing processes in PET facilities.

Published clinical trials do not provide evidence to support the diagnostic performance and improvement of health outcomes of FDG PET scans for the indications listed as investigational in this policy, including brain, ovarian, pancreatic, small cell lung, and testicular cancers, primary diagnosis and staging of esophageal cancer, and as part of the initial work-up for occult primary tumor or for patients with multiple sites of metastasis.

#### Breast Cancer

Clinical evidence does not support FDG PET imaging for differential diagnosis in patients with suspicious breast lesions or an indeterminate/low suspicion finding on mammography. Patients with positive PET scans would presumably undergo biopsy confirmation; thus, there would be no change in the net health outcome from using PET compared with not using

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 22 of 28

PET prior to biopsy. Among patients who have been referred for biopsy, a false-negative PET finding could result in delayed or missed diagnosis and treatment.

Clinical evidence does not support FDG PET imaging for staging axillary lymph nodes in patients with an initial diagnosis of primary breast cancer. If the PET scan correctly suggested no spread of tumor to the axillary lymph nodes, the patient could avoid the pain and other complications associated with axillary lymph node dissection. A false-negative PET scan result could lead to harm if a patient with undetected axillary involvement chose to forego adjuvant systemic therapy.

#### Brain Cancer

Clinical evidence for the use of FDG PET in brain cancer to distinguish tumor from radiation necrosis in recurrent brain lesions indicates that PET has similar operating characteristics to imaging technology such as magnetic resonance spectroscopy (MRS).

#### Cervical Cancer

Clinical evidence, including sensitivity and specificity, suggests that the addition of FDG PET after a negative CT or MRI that is negative for extra-pelvic metastasis can improve clinical decision-making. The literature indicates improved sensitivity for FDG PET compared to conventional imaging in detecting nodal metastases, and, specifically, para-aortic nodal metastases, in patients with newly diagnosed cervical cancer.

#### Esophageal Carcinoma

Studies have shown that FDG-PET provides information that may improve health outcomes for initial staging to determine resectability following neoadjuvant chemotherapy for reduction of tumor volume in esophageal carcinoma patients to assess respectability, and for suspected recurrence. For diagnosis, a diagnostic tissue sample is usually obtainable without FDG-PET localization.

#### Ewing's Sarcoma and Osteogenic Sarcoma

Clinical evidence supports the use of FDG PET for initial staging and restaging when there is an established tissue diagnosis.

#### Lung Cancer

In patients with known non-small cell lung cancer, the clinical value of PET scanning relates to improved staging information regarding the involvement of mediastinal lymph nodes, which generally excludes patients from surgical excision. Studies of patients with small cell lung cancer (SCLC) reported evidence suggesting that, for non-brain metastases, PET added to conventional staging is more sensitive in detecting disease than conventional staging alone. PET may correctly upstage and downstage disease, and studies reported very high occurrence of patient management changes that were attributed to PET. However, available studies have methodological flaws, and it is difficult to determine whether the use of PET adds value relative to conventional staging tests for SCLC.

#### Melanoma

Prospective studies have found that PET was much more sensitive and specific than conventional imaging for detection of extranodal metastases as an aid in selecting treatment appropriate to the patient's extent of disease.

#### Molecular Coincidence Detection

There are no data to suggest that the combination of FDG-SPECT with PET scans improves diagnostic performance, and no data regarding the use of FDG-SPECT in the evaluation of coronary perfusion defects. Available literature suggests molecular coincidence detection cannot be considered an equivalent diagnostic modality compared to conventional PET scanning, particularly for small lesions. There are inadequate data regarding the diagnostic performance of molecular coincidence detection compared to other anatomic imaging techniques, such as CT or MRI scan.

#### Neuroendocrine Tumors

Clinical evidence supports the use of PET or PET/CT in the management of patients with neuroendocrine tumors. Current NCCN guidelines for neuroendocrine tumors (v.1.2023) have recommended somatostatin receptor-based imaging with Proprietary Information of Excellus BlueCross BlueShield

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 23 of 28

PET/CT or PET/MRI, using somatostatin receptor PET tracers,<sup>68</sup>Ga-dotatate, <sup>68</sup>Ga-dotatoc, or <sup>64</sup>Cu-dotatate to assess receptor status and presence of distant disease. Somatostatin receptor imaging can assist in determining if a patient would benefit from receiving a somatostatin receptor-directed therapy. Use of FDG-PET may be considered to identify high-grade active disease in selected patients when high-grade neuroendocrine tumors or poorly differentiated carcinomas are documented or suspected or when disease is growing rapidly. For certain types of neuroendocrine tumors (e.g., well-differentiated, grade 3), somatostatin receptor-based imaging with PET/CT or PET/MRI or FDG-PET/CT scans for surveillance are recommended as clinically indicated.

#### Occult Cancer

Clinical evidence demonstrates adequate diagnostic performance for use of FDG PET to detect metastatic sites in patients eligible for local or regional therapy of one to several metastases from an occult carcinoma. Detecting new sites of metastasis improves health outcomes for patients thought to have an isolated metastatic site, by sparing them from attempted definitive local or regional therapy that is unlikely to be effective. Conversely, if no new sites of disease are identified, clinicians can administer the planned local or regional treatments with greater confidence.

#### Ovarian Cancer

Clinical evidence for ovarian cancer is only fair indicating no improvement in diagnostic results for recurrence by using FDG PET as an adjunct to conventional imaging and CA-125 levels. For patients with rising CA-125 titer and negative conventional imaging, there may be improved outcomes with the additional of FDG PET to the standard work-up.

#### Pancreatic Cancer

Studies regarding pancreatic cancer demonstrated a trend toward greater sensitivity for FDG PET compared to conventional imaging techniques; however, diabetes and abnormal glucose metabolism in this patient population affect FDG PET results.

#### Prostate Cancer

On June 11, 2013, CMS issued a Decision Memo that addressed the use of FDG PET for prostate cancer. CMS found little evidence concerning the effects of FDG PET on outcomes for patients whose initial therapy for prostate cancer had been completed. After review of the public comments and therapeutic studies of the evidence base, CMS agreed that a significant benefit of FDG PET scans is their use to determine effect of treatment, especially at certain types of progressive prostate disease. CMS noted that FDG PET/CT imaging's selective use in assessing progression of prostate cancer does provide valuable additional information for managing treatment decisions, and, therefore, considered its use for subsequent treatment strategy planning to be reasonable and necessary. In many of the studies, a rising PSA level was key to the clinical suspicion of progressive or recurrent prostate cancer. Prostate-antigen (PSMA) is a transmembrane protein present in all prostatic tissues and almost all prostate adenocarcinomas show PSMA expression in both primary and metastatic lesions. PSMA-targeted PET imaging is now being utilized for the detection of prostate cancer. NCCN guidelines for Prostate Cancer state, although the FDA has approved Ga-68 PSMA-11 for use with Lu-177–Prostate-specific membrane antigen (PSMA)-617, the panel believes that F-18 piflufolastat PSMA and F-18 flotufolastat PSMA can also be used in the same space due to multiple reports describing the equivalency of these imaging agents in: PSMA molecular recognition motifs, normal organ biodistribution, and detection accuracy of prostate cancer lesions.

#### Soft Tissue Sarcoma

Prospective and retrospective studies support that FDG-PET is more accurate than size-based criteria at assessing histopathologic response to neoadjuvant therapy and is accurate in preoperative staging of soft-tissue sarcoma.

#### Solitary Pulmonary Nodule

Numerous case series support that FDG-PET may be effective in patients with solitary pulmonary lung nodules in whom the diagnosis is uncertain after prior CT scan and chest x-ray. Patients who are relatively young and have no smoking history are at a relatively low risk for lung cancer, and, in this setting, the negative predictive value of a PET scan is relatively high. If presented with a negative PET scan and information about the very low probability of undetected

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 24 of 28

malignancy, it is likely that some patients would choose to avoid the harms of an invasive sampling procedure (e.g., biopsy).

#### Testicular Cancer

Literature suggests a possible role for FDG PET in staging testicular cancer.

#### <u>Thymoma</u>

Clinical evidence supports the use of FDG PET in predicting the grade of malignancy in thymic epithelial tumors, in differentiating thymoma from hyperplasia in myasthenia gravis, in differentiating subgroups of thymic epithelial tumors, and for staging the extent of disease.

#### Thyroid Cancer

Clinical evidence supports the effectiveness of FDG PET in the staging of thyroid cancer of follicular cell origin, previously treated by thyroidectomy and radioiodine ablation, with an elevated or rising serum Tg greater than 10 ng/ml and negative I-131 WBS. Medullary thyroid cancer is a relatively rare disease, composing only 3-10% of all malignant thyroid cancers. Metastasis to locoregional lymph nodes is common and can be seen in 71-80% of cases. Distant metastases can be found in about 20% of patients. Following surgical treatment, elevation of serum calcitonin and CEA levels suggest persistent or recurrent disease. In these patients, FDG PET can identify more than twice as many sites of disease than conventional imaging modalities (CT, MRI). FDG PET is less sensitive for detection of pulmonary and hepatic metastases, compared to CT and MR, respectively.

## **CODES**

- Eligibility for reimbursement is based upon the benefits set forth in the member's subscriber contract.
- CODES MAY NOT BE COVERED UNDER ALL CIRCUMSTANCES. PLEASE READ THE POLICY AND GUIDELINES STATEMENTS CAREFULLY.
- Codes may not be all inclusive as the AMA and CMS code updates may occur more frequently than policy updates.
- *Code Key: Experimental/Investigational = (E/I), Not medically necessary/ appropriate = (NMN).*

Code	Description
78811	Positron emission tomography (PET) imaging; limited area (e.g., chest, head/neck)
78812	skull base to mid-thigh
78813	whole body
78814	Positron emission tomography (PET) imaging with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; limited area (e.g., chest, head/neck)
78815	skull base to mid-thigh
78816	whole body

#### **CPT Codes**

Copyright © 2024 American Medical Association, Chicago, IL

#### **HCPCS** Codes

Code	Description
A9515	Choline C-11, diagnostic, per study dose up to 20 millicuries
A9552	Fluorodeoxyglucose F-18 FDG, diagnostic, per study dose, up to 45 millicuries
A9580	Sodium fluoride F-18, diagnostic, per study dose, up to 30 millicuries

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 25 of 28

Code	Description
A9587	Gallium Ga-68, dotatate, diagnostic, 0.1 millicurie
A9588	Fluciclovine f-18, diagnostic, 1 millicurie
A9591 (E/I)	Fluoroestradiol f 18, diagnostic, 1 millicurie
A9592	Copper cu-64, dotatate, diagnostic, 1 millicurie
A9593	Gallium Ga-68 PSMA-11, diagnostic, 1 millicurie (UCSF)
A9594	Gallium Ga-68 PSMA-11, diagnostic, 1 millicurie (UCLA)
A9595	Piflufolastat f-18, diagnostic, 1 millicurie
A9596	Gallium GA-68 gozetotide, diagnostic, (illuccix), 1 millicurie
A9597	Positron emission tomography radiopharmaceutical, diagnostic, for tumor identification, not otherwise classified
A9608	Flotufolastat f 18, diagnostic, 1 millicurie (Posluma) ( <i>Effective 01/01/2024</i> )
A9800	Gallium ga-68 gozetotide, diagnostic, (locametz), 1 millicurie
C9067	Gallium Ga-68, dotatoc, diagnostic, 0.01 millicurie
G0219 ( <b>E/I</b> )	PET imaging whole body; melanoma for non-covered indications
G0235	PET imaging, any site, not otherwise specified
G0252 (E/I)	PET imaging, full and partial-ring PET scanners only, for initial diagnosis of breast cancer and/or surgical planning for breast cancer (e.g., initial staging of axillary lymph nodes)
S8085 (E/I)	Fluorine-18 fluorodeoxyglucose (F-18 FDG) imaging using dual-head coincidence detection system (non-dedicated PET scan)

#### **ICD10 Codes**

(	Code	Description
Ν		

## **REFERENCES**

Barakat A, et al. Role of early PET/CT imaging with 68Ga-PSMA in staging and restaging of prostate cancer. <u>Scientific</u> <u>Reports</u> 2020;10:2705.

\*Bastinaannet E, et al. The value of FDG-PET in the detection, grading and response to therapy of soft tissue and bone sarcomas: a systematic review and meta-analysis. <u>Cancer Treatment Reviews</u> 2004;30:83-101.

\*Cerfolio RJ, et al. The role of FDG-PET scan in staging patients with non-small cell carcinoma. <u>Ann Thorac Surg</u> 2003 Sep;76(3):861-6.

\*Chao ST, et al. The sensitivity and specificity of FDG PET in distinguishing recurrent brain tumor from radionecrosis in patients treated with stereotactic radiosurgery. Int J Cancer 2001 Jun 20:96(3):191-7.

\*Choi JY, et al. 18F-FDG PET in patients with esophageal squamous cell carcinoma undergoing curative surgery: prognostic implications. J Nucl Med 2004 Nov;45(11):1843-50.

\*Choi H, et al. CT evaluation of the response of gastrointestinal stromal tumors after imatinib mesylate treatment: a quantitative analysis correlated with FDG-PET findings. <u>AJR</u> 2004;183:1619-28.

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 26 of 28

Delpassand ES, et al. 64 Cu-DOTATATE PET/CT for imaging patients with known or suspected somatostatin receptorpositive neuroendocrine tumors: Results of the first U.S. prospective, reader-masked clinical trial. <u>J Nucl Med</u> Jun 2020; 61(6): 890-896.

\*Desai DC, et al. Positron emission tomography affects surgical management in recurrent colorectal cancer patients. <u>Ann</u> <u>Surg Oncol</u> 2003 Jan-Feb;10(1):59-64.

\*Eubank WB, et al. Impact of FDG PET on defining the extent of disease and on the treatment of patients with recurrent or metastatic breast cancer. <u>AJR</u> 2004;183:479-86.

\*Evan-Sapir E, et al. Detection of recurrence in patients with rectal cancer: PET/CT after abdominoperineal or anterior resection. <u>Radiology</u> 2004;232:815-22.

\*Grigsby PW, et al. Posttherapy (18F) fluorodeoxyglucose positron emission tomography in carcinoma of the cervix: response and outcome. J Clin Oncol 2004 Jun 1;22(11):2167-71.

\*Heeren PA, et al. Detection of distant metastases in esophageal cancer with (18)F-FDG PET. J Nucl Med 2004 Jun;45(6):980-7.

Hope TA, et al. Diagnostic accuracy of 68Ga-PSMA-11 PET for pelvic nodal metastasis detection prior to radical prostatectomy and pelvic lymph node dissection. JAMA Oncol 2021;7(11):1635-1642.

\*Ioannidis JPA, et al. FDG-PET for the diagnosis and management of soft tissue sarcoma. Technology Assessment. Agency for Healthcare Research and Quality (AHRQ). 2002 Apr.

\*Israel O, et al. Is 18F-FDG PET/CT useful for imaging and management of patients with suspected occult recurrence of cancer. J Nucl Med 2004;45:2045-51.

\*Kelly RF, et al. Accuracy and cost-effectiveness of (18F)-2-fluoro-deoxy-D-glucose-positron emission tomography scan in potentially resectable non-small cell lung cancer. <u>Chest</u> 2004 Apr;125(4):1413-23.

Kiamanesh Z, et al. The value of FDG PET/CT imaging in outcome prediction and response assessment of lymphoma patients treated with immunotherapy: a meta-analysis and systematic review. <u>Eur J Nucl Med Mol Imaging</u> 2022 Nov;49(13):4661-4676.

Klingenberg S, et al. 68Ga-PSMA PET/CT for Primary Lymph Node and Distant Metastasis NM Staging of High-Risk Prostate Cancer. J Nucl Med 2021;62:214-220.

\*Kneist W, et al. Prospective evaluation of positron emission tomography in the preoperative staging of esophageal carcinoma. <u>Arch Surg</u> 2004 Oct;139(10):1043-9.

\*Kushner BH, et al. Extending positron emission tomography scan utility to high-risk neuroblastoma: fluorine-18 fluorodeoxyglucose positron emission tomography as sole imaging modality in follow-up of patients. J Clin Oncol 2001 Jul 15;19(14):3397-405.

\*Lai CH, et al. Restaging of recurrent cervical carcinoma with dual-phase [18F] fluoro-2-deoxy-D-glucose positron emission tomography. <u>Cancer</u> 2004 Feb 1:100(3):544-52.

Liu C, et al. Dual Tracers of 16a-[18F] fluoro-17b-Estradiol and [18F] fluorodeoxyglucose for prediction of progressionfree survival after fulvestrant therapy in patients with HR+/HER2- metastatic breast cancer. Frontiers in Oncology 2020 Oct;10:Article 580277.

\*Liu IJ, et al. Fluorodeoxyglucose positron emission tomography studies in diagnosis and staging of clinically organconfined prostate cancer. <u>Urol</u> 2001 Jan;57(1):108-11.

\*Lonneux M, et al. FDG-PET improves the staging and selection of patients with recurrent colorectal cancer. <u>Eur J Nucl</u> <u>Med Mol Imag</u> 2002 Jul;29(7):915-21.

Mammatas, LH et al. Visual and quantitative evaluation of [18F] FES and [18F] FDHT PET in patients with metastatic breast cancer: an interobserver variability study. <u>EJNMMI Research</u> 2020;10:40.

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 27 of 28

\*Matchar DB, et al. Positron emission testing for six cancers (brain, cervical, small cell lung, ovarian, pancreatic and testicular. Technology Assessment. Agency for Healthcare Research and Quality (AHRQ). 2004 Feb.

National Comprehensive Cancer Network. [https://www.nccn.org/home] accessed 10/26/23.

National Comprehensive Cancer Network. Prostate cancer. Guideline. Version 4.2023 [https://www.nccn.org/professionals/physician\_gls/pdf/prostate.pdf] accessed 10/26/23.

Pienta KJ, et al. A Phase 2/3 prospective multicenter study of the diagnostic accuracy of prostate specific membrane antigen PET/CT with 18F-DCFPyL in prostate cancer patients (OSPREY). Journal of Urology July 2021;205:1-10.

\*Rijkers AP, et al. Usefulness of F-18-Fluro-deoxy-glucose-positiron emission tomography to confirm suspected pancreatic cancer: a meta-analysis. <u>Eur J Surg Oncol</u> 2014 Jul;40(7):794-904.

\*Rodriguez Rivera AM, et al. Value of positron emission tomography scan in stage II cutaneous melanoma: a systematic review and meta-analysis. <u>Surg Oncol</u> 2014 Mar;23(1):11-16.

\*Rohde M, et al. 18F-fluoro-deoxy-glucose-positron emission tomography/computed tomography in diagnosis of head and neck squamous cell carcinoma: a systematic review and meta-analysis. <u>Eur J Cancer</u> 2014 Sep;50(13):2271-9.

\*Rohren EM, et al. The role of F-18 FDG positron emission tomography in preoperative assessment of the liver in patients being considered for curative resection of hepatic metastases from colorectal cancer. <u>Clin Nucl Med</u> 2002 Aug;27(8):550-5.

\*Schaefer NG, et al. Non-Hodgkin lymphoma and Hodgkin disease: co-registered FDGPET and CT at staging and restaging – do we need contrast-enhanced CT. <u>Radiology</u> 2004;232:823-9.

\*Seidenfeld J, et al. Management of small cell lung cancer. Evidence Report. Agency for Healthcare Research and Quality (AHRQ) Publ No. 06-E016; 2006 Jul.

\*Sihvo EI, et al. Adenocarcinoma of the esophagus and the esophagogastric junction: positron emission tomography improves staging and prediction of survival in distant but not in locoregional disease. J Gastrointest Surg 2004 Dec;8(8):988-96.

\*Swetter SM, et al. Positron emission tomography is superior to computed tomography for metastatic detection in melanoma patients. <u>Ann Surg Oncol</u> 2002 Aug;9(7):646-53.

\*Van Tinteren, et al. Effectiveness of positron emission tomography in the preoperative assessment of patients with suspected non-small cell lung cancer: the PLUS multicentre randomized trial. <u>Lancet</u> 2002 Apr 20;359(9315):1361-2.

Zhang LL, et al. 68Ga-PSMA PET/CT targeted biopsy for the diagnosis of clinically significant prostate cancer compared with transrectal ultrasound guided biopsy: a prospective randomized single-centre study. <u>European Journal of Nuclear</u> <u>Medicine and Molecular Imaging</u> 2021;48:483-492.

\*Key Article

## KEY WORDS

FDG PET, FDG SPECT, Gamma Camera, PET, Positron emission tomography.

## **CMS COVERAGE FOR MEDICARE PRODUCT MEMBERS**

There is currently a National Coverage Determination (NCD) for Positron Emission Tomography (FDG) for Oncologic Conditions (220.6.17). Please refer to the following NCD website for Medicare Members: [https://www.cms.gov/medicare-coverage-database/details/ncd-details.aspx?NCDId=331&ncdver=4&bc=AgAAgAAAAAAAAAAAA&3d%3d&] accessed 10/26/23.

There is currently a National Coverage Determination (NCD) for Positron Emission Tomography (FDG) for (NaF-18) to Identify Bone Metastasis of Cancer (22.6.19). Please refer to the following NCD website for Medicare Members: [https://www.cms.gov/medicare-coverage-database/details/ncddetails.aspx?NCDId=336&ncdver=1&bc=AgAAgAAAAAAAAA3d%3d%3d&] accessed 10/26/23.

#### Medical Policy: POSITRON EMISSION TOMOGRAPHY (PET) ONCOLOGIC APPLICATIONS Policy Number: 6.01.29 Page: 28 of 28

There is currently a National Coverage Determination (NCD) for Positron Emission Tomography (FDG) scans (220.6). Please refer to the following NCD website for Medicare Members: [https://www.cms.gov/medicare-coverage-database/details/ncd-details.aspx?NCDId=211&ncdver=5&bc=AgAAgAAAAAAAAAA3d%3d&3d&] accessed 10/26/23.

There is currently a Final Decision Memo for Positron Emission Tomography (FDG) for Solid Tumors (CAG-00181R4). Please refer to the following CMS website for Medicare Members: [http://www.cms.gov/medicare-coverage-database/details/nca-decision-memo.aspx?NCAId=263] accessed 10/26/23.