

### UnitedHealthcare® Medicare Advantage Policy Guideline

# Positron Emission Tomography (PET) Scan

**Guideline Number**: MPG242.14 **Approval Date**: February 23, 2024

Terms and Conditions

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Related Policies	
None	

### **Policy Summary**

See Purpose

#### Overview

Positron Emission Tomography (PET) is a minimally invasive diagnostic imaging procedure used to evaluate metabolism in normal tissue as well as in diseased tissues in conditions such as cancer, ischemic heart disease, and some neurologic disorders. A radiopharmaceutical is injected into the patient that gives off sub-atomic particles, known as positrons, as it decays. PET uses a positron camera (tomography) to measure the decay of the radiopharmaceutical. The rate of decay provides biochemical information on the metabolism of the tissue being studied.

#### **Guidelines**

Medicare covers FDG PET for the determination of myocardial viability as a primary or initial diagnostic study prior to revascularization, or following an inconclusive SPECT. Studies performed by full and partial ring scanners are covered.

Effective December 15, 2017, CMS determines that PET NaF-18 PET is nationally non-covered.

Effective October 13, 2023, CMS removed NCD 220.6.20, ending CED for PET beta amyloid imaging and permitting Medicare coverage determinations for PET beta amyloid imaging to be made by the Medicare Administrative Contractors.

## **Applicable Codes**

The following list(s) of procedure and/or diagnosis codes is provided for reference purposes only and may not be all inclusive. Listing of a code in this guideline does not imply that the service described by the code is a covered or non-covered health service. Benefit coverage for health services is determined by the member specific benefit plan document and applicable laws that may require coverage for a specific service. The inclusion of a code does not imply any right to reimbursement or guarantee claim payment. Other Policies and Guidelines may apply.

CPT Code	<b>Description</b>
78429	Myocardial imaging, positron emission tomography (PET), metabolic evaluation study (including ventricular wall motion[s] and/or ejection fraction[s], when performed), single study; with concurrently acquired computed tomography transmission scan

CPT Code	Description
78430	Myocardial imaging, positron emission tomography (PET), perfusion study (including ventricular wall motion[s] and/or ejection fraction[s], when performed); single study, at rest or stress (exercise or pharmacologic), with concurrently acquired computed tomography transmission scan
78431	Myocardial imaging, positron emission tomography (PET), perfusion study (including ventricular wall motion[s] and/or ejection fraction[s], when performed); multiple studies at rest and stress (exercise or pharmacologic), with concurrently acquired computed tomography transmission scan
78432	Myocardial imaging, positron emission tomography (PET), combined perfusion with metabolic evaluation study (including ventricular wall motion[s] and/or ejection fraction[s], when performed), dual radiotracer (e.g., myocardial viability)
78433	Myocardial imaging, positron emission tomography (PET), combined perfusion with metabolic evaluation study (including ventricular wall motion[s] and/or ejection fraction[s], when performed), dual radiotracer (e.g., myocardial viability); with concurrently acquired computed tomography transmission scan
78434	Absolute quantitation of myocardial blood flow (AQMBF), positron emission tomography (PET), rest and pharmacologic stress (List separately in addition to code for primary procedure)
78459	Myocardial imaging, positron emission tomography (PET), metabolic evaluation
78491	Myocardial imaging, positron emission tomography (PET), perfusion; single study at rest or stress
78492	Myocardial imaging, positron emission tomography (PET), perfusion; multiple studies at rest and/or stress
78608	Brain imaging, positron emission tomography (PET); metabolic evaluation
78811	Positron emission tomography (PET) imaging; limited area (e.g., chest, head/neck)
78812	Positron emission tomography (PET) imaging; skull base to mid-thigh
78813	Positron emission tomography (PET) imaging; whole body
78814	Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; limited area (e.g., chest, head/neck)
78815	Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; skull base to mid-thigh
78816	Positron emission tomography (PET) with concurrently acquired computed tomography (CT) for attenuation correction and anatomical localization imaging; whole body
Non-Covered	
78609	Brain imaging, positron emission tomography (PET); perfusion evaluation

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HCPCS Code	<b>Description</b>
A9515	Choline C-11, diagnostic, per study dose up to 20 millicuries
A9526	Nitrogen N-13 ammonia, diagnostic, per study dose, up to 40 millicuries
A9552	Fluorodeoxyglucose F-18 FDG, diagnostic, per study dose, up to 45 millicuries
A9555	Rubidium Rb-82, diagnostic, per study dose, up to 60 millicuries
A9586	Florbetapir F18, diagnostic, per study dose, up to 10 millicuries (CED coverage ended 10/13/2023)
A9587	Gallium ga-68, dotatate, diagnostic, 0.1 millicurie
A9588	Fluciclovine f-18, diagnostic, 1 millicurie
A9591	Fluoroestradiol f 18, diagnostic, 1 mCi
A9592	Copper Cu-64, dotatate, diagnostic, 1 mCi
A9593	Gallium Ga-68 PSMA-11, diagnostic, (UCSF), 1 mCi
A9594	Gallium Ga-68 PSMA-11, diagnostic, (UCLA), 1 mCi
A9595	Piflufolastat f-18, diagnostic, 1 mCi

<b>HCPCS Code</b>	Description
A9596	Gallium Ga-68 gozetotide, diagnostic, (Illuccix), 1 mCi (Effective 07/01/2022)
A9597	Positron emission tomography radiopharmaceutical, diagnostic, for tumor identification, not otherwise classified
A9598	Positron emission tomography radiopharmaceutical, diagnostic, for non-tumor identification, not otherwise classified
A9601	Flortaucipir F-18 injection, diagnostic, 1 mCi (Effective 07/01/2022)
A9602	Fluorodopa F-18, diagnostic, per mCi (Effective 10/01/2022)
A9800	Gallium Ga-68 gozetotide, diagnostic, (Locametz), 1 mCi (Effective 10/01/2022)
Q9982	Flutemetamol F18, diagnostic, per study dose, up to 5 millicuries (CED coverage ended 10/13/2023)
Q9983	Florbetaben F18, diagnostic, per study dose, up to 8.1 millicuries (CED coverage ended 10/13/2023)
Non-Covered	
A9580	Sodium fluoride F-18, diagnostic, per study dose, up to 30 millicuries (CED coverage ended 12/14/2017)
G0219	PET imaging whole body; melanoma for non-covered indications
G0235	PET imaging, any site, not otherwise specified
G0252	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)

Diagnosis Code	
Positron Emission Tomography (PET) Scan: Diagnosis Code List	
Coding Clarification: This list contains diagnosis codes pertaining to Myocardial Imaging.	

Modifier	Description
PI	Positron emission tomography (PET) or PET/computed tomography (CT) to inform the initial treatment strategy of tumors that are biopsy proven or strongly suspected of being cancerous based on other diagnostic testing
PS	Positron emission tomography (PET) or PET/computed tomography (CT) to inform the subsequent treatment strategy of cancerous tumors when the beneficiary's treating physician determines that the PET study is needed to inform subsequent anti-tumor strategy

#### **Coding Clarifications:**

- Local Coverage Determinations (LCDs) and/or Articles vary in coverage per jurisdiction.
- An appropriate diagnosis code must be submitted with each claim and failure to do so may result in denial or delay in claim processing.
- The most current diagnosis code(s) should be used to ensure proper payment.
- HCPCS codes A9597 and A9598 are not to be reported for any CMS approved PET indication where a dedicated PET radiopharmaceutical is already assigned. In other words, HCPCS codes A9597 and A9598 are not replacements for currently approved PET radiopharmaceuticals.

### References

#### CMS National Coverage Determinations (NCDs)

NCD 220.6 Positron Emission Tomography (PET) Scans - Retired

NCD 220.6.1 PET for Perfusion of the Heart

NCD 220.6.8 FDG PET for Myocardial Viability

NCD 220.6.9 FDG PET for Refractory Seizures

NCD 220.6.13 FDG PET for Dementia and Neurodegenerative Diseases

NCD 220.6.17 Positron Emission Tomography (FDG) for Oncologic Conditions

NCD 220.6.19 Positron Emission Tomography (NaF-18) to Identify Bone Metastasis of Cancer

### CMS Local Coverage Determinations (LCDs) and Articles

LCD	Article	Contractor	Medicare Part A	Medicare Part B
L33457 Cardiac Radionuclide Imaging	A56476 Billing and Coding: Cardiac Radionuclide Imaging	Palmetto	AL, GA, TN, NC, SC, VA, WV	AL, GA, TN, NC, SC, VA, WV
L35391 Multiple Imaging in Oncology	A56848 Billing and Coding: Multiple Imaging in Oncology	Novitas	AR, CO, DC, DE, LA, MD, MS NJ, NM, OK, PA, TX	AR, CO, DC, DE, LA, MD, MS NJ, NM, OK, PA, TX
N/A	A54666 Billing and Coding: Positron Emission Tomography Scans Coverage Retired 10/01/2023	Noridian	AS, CA (Entire State), GU, HI, MP, NV	AS, CA (Northern), CA (Southern), GU, HI, MP, NV
N/A	A54668 Billing and Coding: Positron Emission Tomography Scans Coverage Retired 10/01/2023	Noridian	AK, AZ, ID, MT, ND, SD, OR, UT, WA, WY	AK, AZ, ID, MT, ND, SD, OR, UT, WA, WY
N/A	A53134 Billing and Coding:  NCD Coding Article for Positron  Emission Tomography (PET)  Scans Used for Non-Oncologic  Conditions	Novitas	AR, CO, DC, DE, LA, MD, MS NJ, NM, OK, PA, TX	AR, CO, DC, DE, LA, MD, MS NJ, NM, OK, PA, TX
L38396 Cardiology Non- emergent Outpatient Stress Testing	A56952 Billing and Coding: Cardiology Non-emergent Outpatient Stress Testing	First Coast	FL, PR, VI	FL, PR, VI
L35083 Cardiology Non- emergent Outpatient Stress Testing	A56423 Billing and Coding: Cardiology Non-emergent Outpatient Stress Testing	Novitas	AR, CO, DC, DE, LA, MD, MS NJ, NM, OK, PA, TX	AR, CO, DC, DE, LA, MD, MS NJ, NM, OK, PA, TX
N/A	A59049 Billing and Coding:  NCD Coding Article for Positron  Emission Tomography (PET)  Scans Used for Non-Oncologic  Conditions	First Coast	FL, PR, VI	FL, PR, VI
L39521 Positron Emission Tomography (PET) Scan for Inflammation and Infection	A59318 Billing and Coding: Positron Emission Tomography (PET) Scan for Inflammation and Infection	CGS	KY, OH	KY, OH
N/A	A54735 Billing and Coding: PET Scan Claims to Identify Bone Metastasis of Cancer Retired 05/10/2023	Palmetto	AL, GA, TN, NC, SC, VA, WV	
N/A	A55052 Billing and Coding: Radiopharmaceutical Agents Retired 12/29/2022	WPS	IA, IN, KS, MI, MO, NE	IA, IN, KS, MI, MO, NE
N/A	A53132 Billing and Coding: NCD Coding Article for Positron Emission Tomography (PET) Scans Used for Oncologic Conditions Retired 03/24/2022	Novitas	AR, CO, DC, DE, LA, MD, MS NJ, NM, OK, PA, TX	AR, CO, DC, DE, LA, MD, MS NJ, NM, OK, PA, TX

LCD	Article	Contractor	Medicare Part A	Medicare Part B
N/A	A58826 Billing and Coding: NCD Coding Article for Positron Emission Tomography (PET) Scans Used for Oncologic Conditions Retired 03/24/2022	First Coast	FL, PR, VI	FL, PR, VI

### **CMS Claims Processing Manual**

Chapter 13; § 60 Positron Emission Tomography (PET) Scans - General Information

### CMS Transmittal(s)

Transmittal 1875, Change Request 10184, Dated 07/17/2017 (ICD-10 Coding Revisions to National Coverage Determinations (NCDs))

<u>Transmittal 11083, Change Request 12482, Dated 10/29/2021 (International Classification of Diseases, 10th Revision (ICD-10)</u> and Other Coding)

Transmittal 11158, Change Request 12526, Dated 12/16/2021 (National Coverage Determination (NCD) 220.6.19, Positron Emission Tomography NaF 18 (NaF-18 PET) to Identify Bone Metastasis of Cancer- Manual)

<u>Transmittal 11272, Change Request 12613, Dated 12/18/2022 (An Omnibus CR Covering: (1) Removal of Two National Coverage Determination)</u>

<u>Transmittal 11436, Change Request 11436, Dated 05/26/2022 (October 2022 Healthcare Common Procedure Coding System (HCPCS) Quarterly Update Reminder)</u>

Transmittal 11636, Change Request 12842, Dated 10/05/2022 (International Classification of Diseases, 10th Revision (ICD-10) and Other Coding Revisions to National Coverage Determinations (NCDs)–January 2023 Update–2 of 2)

#### **MLN Matters**

Article MM10319, New Positron Emission Tomography (PET) Radiopharmaceutical/Tracer Unclassified Codes

Article MM11537 Positron Emission Tomography (PET) Scan - Allow Tracer Codes Q9982 and Q9983 in the Fiscal Intermediary

Shared System (FISS)

Article MM12842, International Classification of Diseases, 10th Revision (ICD10) and Other Coding Revisions to National Coverage Determinations (NCDs)—January 2023 Update – 2 of 2

### Other(s)

CMS Decision Memo for Beta Amyloid Positron Emission Tomography in Dementia and Neurodegenerative Disease CAG-00431R

CMS Decision Memo for Beta Amyloid Positron Emission Tomography in Dementia and Neurodegenerative Disease, CMS Website

CMS Decision Memo for Positron Emission Tomography (FDG) for Solid Tumors, CMS Website

CMS Decision Memo for Positron Emission Tomography (NaF-18) to Identify Bone Metastasis of Cancer, CMS Website Title XVIII of the Social Security Act:

- §1861(s)(3)
- §1862 (a)(1)(A)
- §1862 (a)(1)(D) Investigational or Experimental
- §1862 (a)(7))
- §1833 (e)

# **Guideline History/Revision Information**

Revisions to this summary document do not in any way modify the requirement that services be provided and documented in accordance with the Medicare guidelines in effect on the date of service in question.

Date	Summary of Changes
02/23/2024	Supporting Information
	Updated References section to reflect the most current information
	Archived previous policy version MPG242.13

### **Purpose**

The Medicare Advantage Policy Guideline documents are generally used to support UnitedHealthcare Medicare Advantage claims processing activities and facilitate providers' submission of accurate claims for the specified services. The document can be used as a guide to help determine applicable:

- Medicare coding or billing requirements, and/or
- Medical necessity coverage guidelines; including documentation requirements.

UnitedHealthcare follows Medicare guidelines such as NCDs, LCDs, LCAs, and other Medicare manuals for the purposes of determining coverage. It is expected providers retain or have access to appropriate documentation when requested to support coverage. Please utilize the links in the <u>References</u> section above to view the Medicare source materials used to develop this resource document. This document is not a replacement for the Medicare source materials that outline Medicare coverage requirements. Where there is a conflict between this document and Medicare source materials, the Medicare source materials will apply.

### **Terms and Conditions**

The Medicare Advantage Policy Guidelines are applicable to UnitedHealthcare Medicare Advantage Plans offered by UnitedHealthcare and its affiliates.

These Policy Guidelines are provided for informational purposes, and do not constitute medical advice. Treating physicians and healthcare providers are solely responsible for determining what care to provide to their patients. Members should always consult their physician before making any decisions about medical care.

Benefit coverage for health services is determined by the member specific benefit plan document\* and applicable laws that may require coverage for a specific service. The member specific benefit plan document identifies which services are covered, which are excluded, and which are subject to limitations. In the event of a conflict, the member specific benefit plan document supersedes the Medicare Advantage Policy Guidelines.

Medicare Advantage Policy Guidelines are developed as needed, are regularly reviewed and updated, and are subject to change. They represent a portion of the resources used to support UnitedHealthcare coverage decision making.

UnitedHealthcare may modify these Policy Guidelines at any time by publishing a new version of the policy on this website.

Medicare source materials used to develop these guidelines include, but are not limited to, CMS National Coverage

Determinations (NCDs), Local Coverage Determinations (LCDs), Medicare Benefit Policy Manual, Medicare Claims Processing

Manual, Medicare Program Integrity Manual, Medicare Managed Care Manual, etc. The information presented in the Medicare

Advantage Policy Guidelines is believed to be accurate and current as of the date of publication and is provided on an "AS IS"

basis. Where there is a conflict between this document and Medicare source materials, the Medicare source materials will apply.

You are responsible for submission of accurate claims. Medicare Advantage Policy Guidelines are intended to ensure that coverage decisions are made accurately based on the code or codes that correctly describe the health care services provided. UnitedHealthcare Medicare Advantage Policy Guidelines use Current Procedural Terminology (CPT\*), Centers for Medicare and

Medicaid Services (CMS), or other coding guidelines. References to CPT® or other sources are for definitional purposes only and do not imply any right to reimbursement or guarantee claims payment.

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\*For more information on a specific member's benefit coverage, please call the customer service number on the back of the member ID card or refer to the <u>Administrative Guide</u>.