

MEDICAID CODING GUIDELINE

Effective: 9-1-2012

Positron Emission Tomography (PET) Scans Coverage

<u>CPT CODE:</u>	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); Limited Area (e.g., chest, head/neck)
	78812	Positron Emission Tomography (PET); Skull Base to Mid-Thigh
	78813	Positron Emission Tomography (PET); 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

<u>Informational Modifiers:</u>	Q0 – Investigational clinical trial service provided in a clinical research study that is in an approved clinical research study.
	PI – 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 – PET or PET/CT to inform the subsequent treatment strategy of cancerous tumors when the beneficiary’s treatment physician determines that the PET study is needed to inform subsequent anti-tumor strategy.

<u>Indications for use:</u>	Positron Emission Tomography (PET) is a 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.
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<u>CRITERIA:</u>	The patient’s medical record should support the medical necessity of the service and should be available upon request to North Dakota Medicaid.
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COVERED DIAGNOSIS:

These are the only covered ICD-9-CM codes for CPT code **78459, 78491, and 78492:**

402.01	Malignant hypertensive heart disease with heart failure
402.11	Benign hypertensive heart disease with heart failure
402.91	Unspecified hypertension heart disease with heart failure
404.01	Malignant hypertensive heart and chronic kidney disease, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
404.03	Malignant hypertensive heart and chronic kidney disease, with heart failure and chronic kidney disease stage V or end stage renal disease
404.11	Benign hypertensive heart and chronic kidney disease, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
404.13	Benign hypertensive heart and chronic kidney disease, with heart failure and with chronic kidney disease stage V or end stage renal disease
404.91	Unspecified hypertensive heart and chronic kidney disease, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified
404.93	Unspecified hypertensive heart and chronic kidney disease, with heart failure and chronic kidney disease stage IV or end stage renal disease
410.00-414.9	Acute myocardial infarction, other acute and subacute forms of ischemic heart disease, old myocardial infarction, angina pectoris and other forms of chronic ischemic heart disease
426.3	Other left bundle branch block
428.0	Congestive heart failure, unspecified
428.1	Left heart failure
428.20-428.23	Systolic heart failure
428.30-428.33	Diastolic heart failure
428.40-428.43	Combined systolic and diastolic heart failure
428.9	Heart failure, unspecified

These are the only covered ICD-9-CM codes for CPT code **78608:**

290.0	Senile dementia, uncomplicated
290.10-290.13	Presenile dementia
290.20-290.21	Senile dementia with delusional or depressive features
290.3	Senile dementia with delirium
331.0	Alzheimer's disease
331.11	Pick's disease
331.19	Other frontotemporal dementia
331.2	Senile degeneration of the brain
331.6	Corticobasal degeneration
331.9	Cerebral degeneration, unspecified
345.01	Generalized nonconvulsive epilepsy with intractable epilepsy
345.11	Generalized convulsive epilepsy with intractable epilepsy
345.2	Epilepsy and recurrent seizures, petit mal status
345.3	Epilepsy and recurrent seizures, grand mal status
345.41	Localization-related (focal) (partial) epilepsy and epileptic syndromes with complex partial seizures, with intractable epilepsy
345.51	Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures, with intractable epilepsy
345.61	Infantile spasms, with intractable epilepsy
345.71	Epilepsia partialis continua, with intractable epilepsy
345.81	Other forms of epilepsy and recurrent seizures, with intractable epilepsy
345.91	Epilepsy, unspecified, with intractable epilepsy
780.93	Memory loss

**ND DEPT OF HUMAN SERVICES
MEDICAL SERVICES DIVISION**

For CPT codes **78811, 78812, 78813, 78814, 78815, or 78816** must have one of the following ICD-9-CM codes:

140.0-140.9	Malignant neoplasm of lip
141.0-141.9	Malignant neoplasm of tongue
142.0-142.9	Malignant neoplasm of major salivary glands
143.0-143.9	Malignant neoplasm of gum
144.0-144.9	Malignant neoplasm of floor of mouth
145.0-145.9	Malignant neoplasm of other and unspecified parts of mouth
146.0-146.9	Malignant neoplasm of oropharynx
147.0-147.9	Malignant neoplasm of nasopharynx
148.0-148.9	Malignant neoplasm of hypopharynx
149.0-149.9	Malignant neoplasm of other ill-defined sites within the lip, oral cavity, and pharynx
150.0-150.9	Malignant neoplasm of esophagus
153.0-153.9	Malignant neoplasm of colon
154.0	Malignant neoplasm of rectosigmoid junction
154.1	Malignant neoplasm of rectum
154.8	Malignant neoplasm of rectum, rectosigmoid junction, and anus; other
160.0-160.9	Malignant neoplasm of nasal cavities, middle ear, and accessory sinuses
161.0-161.9	Malignant neoplasm of larynx
162.0-162.9	Malignant neoplasm of trachea, bronchus, and lung
170.0-170.1	Malignant neoplasm of bones of skull and face except mandible-malignant neoplasm of mandible
171.0	Malignant neoplasm of connective and other soft tissue; head, face, and neck
172.0-172.9	Malignant melanoma of skin
173.00	Unspecified malignant neoplasm of skin of lip
173.02	Squamous cell carcinoma of skin of lip
173.09	Other specified malignant neoplasm of skin of lip
173.10	Unspecified malignant neoplasm of eyelid, including canthus
173.12	Squamous cell carcinoma of eyelid, including canthus
173.19	Other specified malignant neoplasm of eyelid, including canthus
173.20	Unspecified malignant neoplasm of skin of ear and external auditory canal
173.22	Squamous cell carcinoma of skin of ear and external auditory canal
173.29	Other specified malignant neoplasm of skin of ear and external auditory canal
173.30	Unspecified malignant neoplasm of skin of other and unspecified parts of face
173.32	Squamous cell carcinoma of skin of other and other unspecified parts of face
173.39	Other specified malignant neoplasm of skin of other and unspecified parts of face
173.40	Unspecified malignant neoplasm of scalp and skin of neck
173.42	Squamous cell carcinoma of scalp and skin of neck
173.49	Other specified malignant neoplasm of scalp and skin of neck
174.0-174.9	Malignant neoplasm of female breast
175.0-175.9	Malignant neoplasm of male breast
180.0-180.9	Malignant neoplasm of cervix uteri
183.0	Malignant neoplasm of ovary
193	Malignant neoplasm of thyroid
194.5	Malignant neoplasm of carotid body
195.0	Malignant neoplasm of other and ill-defined sites; head, face and neck
200.00-200.08	Reticulosarcoma
200.10-200.18	Lymphosarcoma
200.20-200.28	Burkitt's tumor or lymphoma
200.30-200.38	Marginal zone lymphoma
200.40-200.48	Mantle cell lymphoma
200.50-200.58	Primary central nervous system lymphoma
200.60-200.68	Anaplastic large cell lymphoma
200.70-200.78	Large cell lymphoma

**ND DEPT OF HUMAN SERVICES
MEDICAL SERVICES DIVISION**

200.80-200.88	Lymphosarcoma and reticulosarcoma and other specified malignant tumors of lymphatic system, other named variants
201.00-201.08	Hodgkin's paragranuloma
201.10-201.18	Hodgkin's granuloma
201.20-201.28	Hodgkin's sarcoma
201.40-201.48	Hodgkin's Disease; lymphocytic-histiocytic predominance
201.50-201.58	Hodgkin's Disease; nodular sclerosis
201.60-201.68	Hodgkin's Disease; mixed cellularity
201.70-201.78	Hodgkin's Disease; lymphocytic depletion
201.90-201.98	Hodgkin's Disease, unspecified
202.00-202.08	Nodular lymphoma
202.10-202.18	Mycosis fungoides
202.20-202.28	Sezary's disease
202.30-202.38	Malignant histiocytosis
202.40-202.48	Leukemic reticuloendotheliosis
202.50-202.58	Letterer-Siwe Disease
202.60-202.68	Malignant mast cell tumors
202.70-202.78	Peripheral T-cell lymphoma
202.80-202.88	Other lymphomas
202.90-202.98	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue
203.00-203.02	Multiple myeloma
793.0	Nonspecific (abnormal) findings on radiological and other examinations of skull and head
793.11	Nonspecific (abnormal) findings on radiological and other examination of lung field; solitary pulmonary nodule
793.19	Nonspecific (abnormal) findings on radiological and other examination of lung field; other nonspecific abnormal finding of lung field
793.2	Nonspecific (abnormal) findings on radiological and other examination of body structure; other intrathoracic organ
793.3	Nonspecific (abnormal) findings on radiological and other examination of body structure; biliary tract
793.4	Nonspecific (abnormal) findings on radiological and other examinations of gastrointestinal tract
793.5	Nonspecific (abnormal) findings on radiological and other examination of body structure; genitourinary organs
793.6	Nonspecific (abnormal) findings on radiological and other examination of body structure; abdominal area; including retroperitoneum
793.7	Nonspecific (abnormal) findings on radiological and other examinations of musculoskeletal system
793.80	Nonspecific (abnormal) findings on radiological and other examinations of breast; abnormal mammogram, unspecified
793.81	Nonspecific (abnormal) findings on radiological and other examinations of breast; mammographic microcalcification
793.82	Nonspecific (abnormal) findings on radiological and other examinations of breast; inconclusive mammogram
793.89	Other (abnormal) findings on radiological examinations of breast
793.91	Image test inconclusive due to excess body fat
793.99	Other nonspecific (abnormal) findings on radiological and other examinations of body structure
794.00	Abnormal function study of brain and central nervous system, unspecified
794.01	Abnormal echoencephalogram
794.02	Abnormal electroencephalogram
794.09	Other nonspecific abnormal results of brain and central nervous system function studies
794.2	Nonspecific abnormal results of pulmonary function studies
794.4	Nonspecific abnormal results of kidney function studies

**ND DEPT OF HUMAN SERVICES
MEDICAL SERVICES DIVISION**

794.5	Nonspecific abnormal results of thyroid function studies
794.6	Nonspecific abnormal results of other endocrine function study
794.8	Nonspecific abnormal results of liver function studies
794.9	Nonspecific abnormal results of other function studies
V10.01	Personal history of malignant neoplasm of the tongue
V10.02	Personal history of malignant neoplasm of other and unspecified oral cavity and pharynx
V10.03	Personal history of malignant neoplasm, esophagus
V10.05	Personal history of malignant neoplasm, large intestine
V10.06	Personal history of malignant neoplasm, rectum, rectosigmoid junction and anus
V10.11	Personal history of malignant neoplasm, bronchus and lung
V10.12	Personal history of malignant neoplasm of trachea
V10.20	Personal history of malignant neoplasm of respiratory organ, unspecified
V10.21-V10.22	Personal history of malignant neoplasm, larynx, nasal cavities, middle ear and accessory sinuses
V10.3	Personal history of malignant neoplasm, breast
V10.43	Personal history of malignant neoplasm, ovary
V10.71	Personal history of other lymphatic and hematopoietic neoplasms, lymphosarcoma and reticulosarcoma
V10.72	Personal history of other lymphatic and hematopoietic neoplasms, Hodgkin's Disease
V10.79	Personal history of other lymphatic and hematopoietic neoplasms
V10.81	Personal history of malignant neoplasm of bone
V10.82	Personal history of malignant melanoma of skin
V10.83	Personal history of other malignant neoplasm of skin
V10.87	Personal history of malignant neoplasm of thyroid

For CPT codes **78608, 78811, 78812, 78813, 78814, 78815, or 78816** must have one of the following ICD-9-CM codes:

151.0-151.9	Malignant neoplasm of stomach
152.0-152.9	Malignant neoplasm of small intestine, including duodenum
154.2	Malignant neoplasm of anal canal
154.3	Malignant neoplasm of anus, unspecified
155.0-155.2	Malignant neoplasm of liver and intrahepatic bile ducts
156.0-156.9	Malignant neoplasm of gallbladder and extrahepatic bile ducts
157.0-157.9	Malignant neoplasm of pancreas
158.0-158.9	Malignant neoplasm of retroperitoneum and peritoneum
159.0-159.9	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum
163.0-163.9	Malignant neoplasm of pleura
164.0-164.9	Malignant neoplasm of thymus, heart, and mediastinum
165.0-165.9	Malignant neoplasm of other and ill-defined sites within the respiratory system and intrathoracic organs
170.2-170.9	Malignant neoplasm of vertebral column, excluding sacrum and coccyx, ribs, sternum, and clavicle, scapula and long bones of upper limb, short bones of upper limb, pelvic bones, sacrum and coccyx, long bones of lower limb, short bones of lower limb and malignant neoplasm of bone and articular cartilage, site unspecified
171.2-171.9	Malignant neoplasm of connective and other soft tissue; upper limb, including shoulder, lower limb, including hip, thorax, abdomen, pelvis, trunk, unspecified, other specified sites of connective and other soft tissue and other connective and other soft tissue, site unspecified
173.50	Unspecified malignant neoplasm of skin of trunk, except scrotum
173.52	Squamous cell carcinoma of skin of trunk, except scrotum
173.59	Other specified malignant neoplasm of skin of trunk, except scrotum
173.60	Unspecified malignant neoplasm of skin of upper limb, including shoulder

**ND DEPT OF HUMAN SERVICES
MEDICAL SERVICES DIVISION**

173.62	Squamous cell carcinoma of skin of upper limb, including shoulder
173.69	Other specified malignant neoplasm of skin of upper limb, including shoulder
173.70	Unspecified malignant neoplasm of skin of lower limb, including hip
173.72	Squamous cell carcinoma of skin of lower limb, including hip
173.79	Other specified malignant neoplasm of skin of lower limb, including hip
173.80	Unspecified malignant neoplasm of other specified sites of skin
173.82	Squamous cell carcinoma of other specified sites of skin
173.89	Other specified malignant neoplasm of other specified sites of skin
173.90	Unspecified malignant neoplasm of skin, site unspecified
173.92	Squamous cell carcinoma of skin, site unspecified
173.99	Other specified malignant neoplasm of skin, site unspecified
176.0-176.9	Kaposi's sarcoma
179	Malignant neoplasm of uterus, part unspecified
181	Malignant neoplasm of placenta
182.0-182.8	Malignant neoplasm of body of uterus
183.2-183.9	Malignant neoplasm of fallopian tube, broad ligament, parametrium, round ligament, and other specified sites of uterine adnexa
184.0-184.9	Malignant neoplasm of other and unspecified female genital organs
186.0-186.9	Malignant neoplasm of testis
187.1-187.9	Malignant neoplasm of penis and other male genital organs
188.0-188.9	Malignant neoplasm of bladder
189.0-189.9	Malignant neoplasm of kidney and other unspecified urinary organs
190.0-190.9	Malignant neoplasm of eye
191.0-191.9	Malignant neoplasm of brain
192.0-192.9	Malignant neoplasm of other and unspecified parts of nervous system
194.0	Malignant neoplasm of adrenal gland
194.1	Malignant neoplasm of parathyroid gland
194.3	Malignant neoplasm of pituitary gland and craniopharyngeal duct
194.4	Malignant neoplasm of pineal gland
194.6	Malignant neoplasm of aortic body and other paraganglia
194.8	Malignant neoplasm of other endocrine glands and related structures, other
194.9	Malignant neoplasm of endocrine gland, site unspecified
195.1	Malignant neoplasm of other and ill-defined sites; thorax
195.2	Malignant neoplasm of other and ill-defined sites; abdomen
195.3	Malignant neoplasm of other and ill-defined sites; pelvis
195.4	Malignant neoplasm of other and ill-defined sites; upper limb
195.5	Malignant neoplasm of other and ill-defined sites; lower limb
196.0-196.9	Secondary and unspecified malignant neoplasm of lymph nodes
197.0-197.8	Secondary malignant neoplasm of respiratory and digestive systems
198.0-198.89	Secondary malignant neoplasm of other specified sites
199.0	Malignant neoplasm without specification of site; disseminated
199.1	Malignant neoplasm without specification of site; other
199.2	Malignant neoplasm associated with transplanted organ
209.00-209.03	Malignant carcinoid tumors of the small intestine
209.10-209.17	Malignant carcinoid tumors of the appendix, large intestine, and rectum
209.20-209.29	Malignant carcinoid tumors of other and unspecified sites
209.30-209.36	Malignant poorly differentiated neuroendocrine tumors
209.40-209.43	Benign carcinoid tumors of the small intestine
209.50-209.57	Benign carcinoid tumors of the appendix, large intestine, and rectum
V10.00	Personal history of malignant neoplasm of the gastrointestinal tract, unspecified
V10.02	Personal history of malignant neoplasm of other and unspecified oral cavity and pharynx
V10.04	Personal history of malignant neoplasm of stomach
V10.07	Personal history of malignant neoplasm of liver
V10.09	Personal history of malignant neoplasm of gastrointestinal tract, other

**ND DEPT OF HUMAN SERVICES
MEDICAL SERVICES DIVISION**

V10.29	Personal history of malignant neoplasm other respiratory and intrathoracic organs, other
V10.40	Personal history of malignant neoplasm of the female genital organ, unspecified
V10.42	Personal history of malignant neoplasm of other parts of uterus
V10.44	Personal history of malignant neoplasm of other female genital organs
V10.45	Personal history of malignant neoplasm of male genital organs, unspecified
V10.47	Personal history of malignant neoplasm of testis
V10.48	Personal history of malignant neoplasm of epididymis
V10.49	Personal history of malignant neoplasm of other male genital organs
V10.50-V10.59	Personal history of malignant neoplasm of urinary organs
V10.84	Personal history of malignant neoplasm of eye
V10.85	Personal history of malignant neoplasm of brain
V10.86	Personal history of malignant neoplasm of other parts of nervous system
V10.87	Personal history of malignant neoplasm of thyroid
V10.88	Personal history of malignant neoplasm of other endocrine glands and related structures
V10.89	Personal history of malignant neoplasm of other sites, other

For CPT codes **78811, 78812, 78813, 78814, 78815, or 78816** must have one of the following ICD-9-CM codes:

203.10-203.12	Plasma cell leukemia
203.80-203.82	Other immunoproliferative neoplasms
204.00-204.02	Acute lymphoid leukemia
204.10-204.12	Chronic lymphoid leukemia
204.20-204.22	Subacute lymphoid leukemia
204.80-204.82	Other lymphoid leukemia
204.90-204.92	Unspecified lymphoid leukemia
205.00-205.02	Acute myeloid leukemia
205.10-205.12	Chronic myeloid leukemia
205.20-205.22	Subacute myeloid leukemia
205.30-205.32	Myeloid sarcoma
205.80-205.82	Other myeloid leukemia
205.90-205.92	Unspecified myeloid leukemia
206.00-206.02	Acute monocytic leukemia
206.10-206.12	Chronic monocytic leukemia
206.20-206.22	Subacute monocytic leukemia
206.80-206.82	Other monocytic leukemia
206.90-206.92	Unspecified monocytic leukemia
207.00-207.02	Acute erythremia and erythroleukemia
207.10-207.12	Chronic erythremia
207.20-207.22	Megakaryocytic leukemia
207.80-207.82	Other specified leukemia
208.00-208.02	Acute leukemia of unspecified cell type
208.10-208.12	Chronic leukemia of unspecified cell type
208.20-208.22	Subacute leukemia of unspecified cell type
208.80-208.82	Other leukemia of unspecified cell type
208.90-208.92	Unspecified leukemia
209.60-209.69	Benign carcinoid tumors of other and unspecified sites
238.9	Neoplasm of uncertain behavior of other and unspecified site and tissue; site unspecified
V10.60-V10.69	Personal history of leukemia

For CPT codes **78608, 78811, 78812, 78813, 78814, 78815, or 78816** must have one of the following ICD-9-CM codes:

210.0-210.9	Benign neoplasm of lip, oral cavity, and pharynx
211.0-211.9	Benign neoplasm of other parts of the digestive system

**ND DEPT OF HUMAN SERVICES
MEDICAL SERVICES DIVISION**

212.0-212.9	Benign neoplasm of respiratory and intrathoracic organs
213.0-213.9	Benign neoplasm of bone and articular cartilage
215.0-215.9	Other benign neoplasm of connective and other soft tissue
216.0-216.9	Benign neoplasm of skin
217	Benign neoplasm of breast
218.0-218.9	Uterine leiomyoma
219.0-219.9	Other benign neoplasm of uterus
220	Benign neoplasm of ovary
221.0-221.9	Benign neoplasm of other female genital organs
222.0-222.9	Benign neoplasm of male genital organs
223.0-223.9	Benign neoplasm of kidney and other urinary organs
224.0-224.9	Benign neoplasm of eye
225.0-225.9	Benign neoplasm of brain and other parts of nervous system
226	Benign neoplasm of thyroid glands
227.0-227.9	Benign neoplasm of other endocrine glands and related structures
228.00-228.09	Hemangioma, any site
228.1	Lymphangioma, any site
229.0-229.9	Benign neoplasm of other and unspecified sites
235.0-235.9	Neoplasm of uncertain behavior of digestive and respiratory systems
236.0-236.7	Neoplasm of uncertain behavior of genitourinary organs
236.90-236.99	Neoplasm of uncertain behavior of other and unspecified urinary organs
237.0-237.6	Neoplasm of uncertain behavior of endocrine glands and nervous system
237.70-237.72	Neurofibromatosis
237.73	Schwannomatosis
237.79	Other neurofibromatosis
237.9	Neoplasm of uncertain behavior of other and unspecified parts of the nervous system
238.0	Neoplasm of uncertain behavior of bone and articular cartilage
238.1	Neoplasm of uncertain behavior of connective tissue and other soft tissue
238.2	Neoplasm of uncertain behavior of skin
238.3	Neoplasm of uncertain behavior of breast
238.8	Neoplasm of uncertain behavior of other specified parts
239.0-239.9	Neoplasms of unspecified nature
518.89*	Other diseases of lung, not elsewhere classified

NOTE: These codes may be used when, at the time of billing, documentation supports concern for possible malignancy and the final interpretation of the PET indicates benign tumor.

NOTE: Code 518.89 should be used only to describe non-specific findings following a PET scan initiated by the presence of a solitary pulmonary nodule.

For CPT codes **78811, 78812, 78813, 78814, 78815, or 78816** must have one of the following ICD-9-CM codes:

238.4	Neoplasm of uncertain behavior polycythemia vera
238.5	Neoplasm of uncertain behavior histiocytic and mast cells
238.6	Neoplasm of uncertain behavior plasma cells
238.71-238.79	Neoplasm of uncertain behavior of other lymphatic and hematopoietic tissues

For CPT codes **78811, 78812, 78813, 78814, 78815, or 78816** must have the following ICD-9-CM code:

185	Malignant neoplasm of prostate
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Note: Compliance with this policy may be subject to pre and post payment data analysis and medical review.