Harvard Pilgrim Health Care | TUFTS Health Plan

Point32Health companies

Payment Policy:

# Laboratory: Biochemical Markers of Alzheimer Disease and Dementia

Effective date: Nov. 1, 2025

**Applies to:**

**Commercial Products**

☒ Harvard Pilgrim Health Care Commercial products
☐ Tufts Health Plan Commercial products

**Public Plans Products**

☐ Tufts Health Direct – A Massachusetts Qualified Health Plan (QHP) (a commercial product)
☐ Tufts Health Together – MassHealth MCO Plan and Accountable Care Partnership Plans
☐ Tufts Health RITogether – A Rhode Island Medicaid Plan
☐ Tufts Health One Care – A dual-eligible product

**Senior Products**

☐ Tufts Health Plan Senior Care Options (SCO) (a dual-eligible product)
☐ Tufts Medicare Preferred HMO/PPO (Medicare Advantage products)

## Policy

Alzheimer disease (AD) is a neurodegenerative disease defined by a gradual decline in memory, cognitive functions, gross atrophy of the brain, and accumulation of extracellular amyloid plaques and intracellular neurofibrillary tangles.

## Indications and/or Limitations of Coverage

Application of coverage criteria is dependent upon an individual's benefit coverage at the time of the request. Specifications pertaining to Medicare and Medicaid can be found in "Applicable State and Federal Regulations" section of this policy document.

1. For individuals with suspected Alzheimer disease or mild cognitive impairment, measurement of the following biomarkers in cerebrospinal fluid **MEETS COVERAGE CRITERIA**.
   a. Amyloid beta peptides.
   b. The ratio of total tau (t-tau) to amyloid beta 1-42 (Aβ42).
   c. The ratio of phosphorylated tau 181 (p-tau181) to Aβ42.
2. For individuals with suspected Alzheimer disease or mild cognitive impairment, measurement of the ratio of p-tau 217 (p-tau217) to Aβ42 in plasma using an FDA-approved test (e.g., Lumipulse G pTau217/ß-Amyloid 1-42 Plasma Ratio) **MEETS COVERAGE CRITERIA**.

The following does not meet coverage criteria due to a lack of available published scientific literature confirming that the test(s) is/are required and beneficial for the diagnosis and treatment of an individual's illness.

3. Measurement of cerebrospinal fluid biomarkers of Alzheimer disease or dementia not mentioned above (e.g., α-synuclein, neural thread proteins) **DOES NOT MEET COVERAGE CRITERIA**.
4. Measurement of plasma and/or serum biomarkers of Alzheimer disease or dementia (e.g., p-tau217 or Aβ42 as individual markers, total tau protein, amyloid beta -1-40, neural thread proteins, ApoE, ApoE4) **DOES NOT MEET COVERAGE CRITERIA**.
5. Measurement of urinary biomarkers of Alzheimer disease or dementia (e.g., neural thread proteins, amyloid beta peptides, urinary extracellular vesicle analysis) **DOES NOT MEET COVERAGE CRITERIA**.
6. The use of multianalyte assays, algorithmic analysis, and/or any other tests not mentioned above for the prognosis, diagnosis, and/or management of Alzheimer disease or dementia **DOES NOT MEET COVERAGE CRITERIA**

## Applicable CPT/HCPCS Procedure Codes

Procedure codes appearing in policy documents are included only as a general reference tool for each policy. They may not be all-inclusive.

**Coding**

| Code | Description |
|---|---|
| 82233 | Beta-amyloid; 1-40 (Abeta 40) (Effective for DOS beginning June 1, 2026) |
| 82234 | Beta-amyloid; 1-42 (Abeta 42) (Effective for DOS beginning June 1, 2026) |
| 83520 | Immunoassay for analyte other than infectious agent antibody or infectious agent antigen; quantitative, not otherwise specified |
| 83884 | Neurofilament light chain (NfL) (Effective for DOS beginning June 1, 2026) |
| 84393 | Tau, phosphorylated (e.g., pTau 181, pTau 217), each (Effective for DOS beginning June 1, 2026) |
| 84394 | Tau, total (tTau) (Effective for DOS beginning June 1, 2026) |
| 0206U | Neurology (Alzheimer disease); cell aggregation using morphometric imaging and protein kinase C-epsilon (PKCe) concentration in response to amylospheroid treatment by ELISA, cultured skin fibroblasts, each reported as positive or negative for Alzheimer disease<br>Proprietary test: DISCERN™<br>Lab/Manufacturer: NeuroDiagnostics |
| 0207U | Quantitative imaging of phosphorylated ERK1 and ERK2 in response to bradykinin treatment by in situ immunofluorescence, using cultured skin fibroblasts, reported as a probability index for Alzheimer disease (List separately in addition to code for primary procedure)<br>Proprietary test: DISCERN™<br>Lab/Manufacturer: NeuroDiagnostics |
| 0289U | Neurology (Alzheimer disease), mRNA, gene expression profiling by RNA sequencing of 24 genes, whole blood, algorithm reported as predictive risk score<br>Proprietary test: MindX Blood Test™ - Memory/Alzheimer's<br>Lab/Manufacturer: MindX Sciences™ Laboratory/MindX Sciences™ Inc |
| 0393U | Neurology (e.g., Parkinson disease, dementia with Lewy bodies), cerebrospinal fluid (CSF), detection of misfolded α-synuclein protein by seed amplification assay, qualitative<br>Proprietary test: SYNTap® Biomarker Test<br>Lab/Manufacturer: Amprion Clinical Laboratory |
| 0412U | Beta amyloid, Aβ42/40 ratio, immunoprecipitation with quantitation by liquid chromatography with tandem mass spectrometry (LC-MS/MS) and qualitative ApoE isoform-specific proteotyping, plasma combined with age, algorithm reported as presence or absence of brain amyloid pathology<br>Proprietary test: PrecivityAD® blood test<br>Lab/Manufacturer: C2N Diagnostics LLC |
| 0443U | Neurofilament light chain (nfl), ultra-sensitive immunoassay, serum or cerebrospinal fluid<br>Proprietary test: Neurofilament Light Chain (NfL)<br>Lab/Manufacturer: Neuromuscular Clinical Laboratory at Washington University in St. Louis School of Medicine, Neuromuscular Clinical Laboratory at Washington University in St. Louis School of Medicine |
| 0445U | B-amyloid (abeta42) and phospho tau (181p) (ptau181), electrochemiluminescent immunoassay (eclia), cerebral spinal fluid, ratio reported as positive or negative for amyloid pathology |
| 0459U | β-amyloid (Abeta42) and total tau (tTau), electrochemiluminescent immunoassay (ECLIA), cerebral spinal fluid, ratio reported as positive or negative for amyloid pathology<br>Proprietary test: Elecsys® Total Tau CSF (tTau) and βAmyloid (1-42) CSF II (Abeta 42) Ratio<br>Lab/Manufacturer: Roche Diagnostics Operations, Inc (US owner/operator) |
| 0479U | Tau, phosphorylated, pTau217<br>Proprietary test: ALZpath pTau217<br>Lab/Manufacturer: Neurocode USA, Inc, Quanterix/ALZpath |
| 0503U | Neurology (Alzheimer disease), beta amyloid (Aβ40, Aβ42, Aβ42/40 ratio) and tau-protein (ptau217, np-tau217, ptau217/nptau217 ratio), blood, immunoprecipitation with quantitation by liquid chromatography with tandem mass spectrometry (LC-MS/MS), algorithm score reported as likelihood of positive or negative for amyloid plaques<br>Proprietary test: PrecivityAD2™<br>Lab/Manufacturer: C2N Diagnostics, LLC |
| 0547U | Neurofilament light chain (NfL), chemiluminescent enzyme immunoassay, plasma, quantitative |

| Code | Description |
|---|---|
| | Proprietary test: Neurofilament Light Blood Test (Effective for DOS beginning June 1, 2026)<br>Lab/Manufacturer: Neurocode USA, Inc, Fujirebio Diagnostics, Inc. |
| 0548U | Glial fibrillary acidic protein (GFAP), chemiluminescent enzyme immunoassay, using plasma<br>Proprietary test: Glial Fibrillary Acidic Protein Blood Test (Effective for DOS beginning June 1, 2026)<br>Lab/Manufacturer: Neurocode USA, Inc, Fujirebio Diagnostics, Inc. |
| 0568U | Neurology (dementia), beta amyloid (Aβ40, Aβ42, Aβ42/40 ratio), tau-protein phosphorylated at residue (e.g., pTau217), neurofilament light chain (NfL), and glial fibrillary acidic protein (GFAP), by ultra-high sensitivity molecule array detection, plasma, algorithm reported as positive, intermediate, or negative for Alzheimer pathology (Effective for DOS beginning June 1, 2026)<br>Proprietary test: LucentAD™ Complete<br>Lab/Manufacturer: Quanterix Corporation |
| 0596U | Neurology (Alzheimer disease), plasma, 3 distinct isoform-specific peptides (APOE2, APOE3, and APOE4) by liquid chromatography with tandem mass spectrometry (LCMS/MS), reported as an APOE prototype (Effective for DOS beginning June 1, 2026)<br>Proprietary test: Precivity-ApoE™<br>Lab/Manufacturer: C2N Diagnostics, LLC |

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## Publication History

| | |
|---|---|
| 04/01/2026: | Annual policy review; administrative edits; added 82233, 82234, 83884, 84393, 84394, 0547U, 0548U, 0568U, 0596U to coding grid, effective for DOS beginning June 1, 2026 |
| 09/01/2025: | Policy created to support coverage guidelines, effective for dates of service beginning Nov. 1, 2025 |

## Background and Disclaimer Information

This policy applies to the products of Harvard Pilgrim Health Care and Tufts Health Plan and their affiliates, as identified in the check boxes on the first page for services performed by contracted providers.

Payment is based on member benefits and eligibility on the date of service, medical necessity review, where applicable, and the provider's network participation agreement with the Plan. As every claim is unique, this policy is neither a guarantee of payment, nor a final indication of how specific claim(s) will be adjudicated. Claims payment is subject to member eligibility and benefits on the date of service, coordination of benefits, referral/authorization, and utilization management requirements (when applicable), adherence to Plan policies and procedures, and claims editing logic. An authorization is not a guarantee of payment.

Point32Health reserves the right to amend a payment policy at its discretion. CPT and HCPCS codes are updated as applicable; please adhere to the most recent CPT and HCPCS coding guidelines.

We reserve the right to conduct audits on any provider and/or facility to ensure accuracy and compliance with the guidelines stated in this payment policy. If such an audit determines that a provider/facility did not comply with this payment policy, Harvard Pilgrim Health Care and Tufts Health Plan will expect the provider/facility to refund all payments related to noncompliance.