

## **Clinical Policy: Lecanemab-irmb (Leqembi)**

Reference Number: PA.CP.PHAR.596

Effective Date: 08/2023

Last Review Date: 07/2023

### **Description**

Lecanemab-irmb (Leqembi™) is a monoclonal antibody targeting amyloid beta.

### **FDA Approved Indication(s)**

Leqembi is indicated for the treatment of Alzheimer's disease (AD). Treatment with Leqembi should be initiated in patients with mild cognitive impairment (MCI) or mild dementia stage of disease, the population in which treatment was initiated in clinical trials.

### **Policy/Criteria**

*Provider must submit documentation (such as office chart notes, lab results or other clinical information) supporting that member has met all approval criteria.*

It is the policy of PA Health & Wellness® that Leqembi is **medically necessary** when the following criteria are met:

#### **I. Initial Approval Criteria**

##### **A. Alzheimer's Disease** (must meet all):

1. Diagnosis of MCI or mild AD dementia (see *Appendix E*);
2. Prescribed by or in consultation with a dementia specialist (e.g., geriatrician, neurologist, or psychiatrist)
3. Age  $\geq 50$  and  $\leq 90$  years;
4. Documentation of the presence of beta-amyloid plaques as verified by one of the following (a or b):
  - a. Positron emission tomography scan;
  - b. Cerebrospinal fluid testing;
5. Documentation of one of the following baseline cognitive tests (a, b or c):
  - a. Mini-Mental State Examination (MMSE) score of  $\geq 21$ ;
  - b. Montreal Cognitive Assessment (MoCA) score of  $\geq 11$ ;
  - c. Global Clinical Dementia Rating Scale (CDR) score of 0.5 or 1;
6. Documentation of recent (within the last year) brain magnetic resonance imaging (MRI) demonstrating all of the following (a-d):
  - a. 4 or less microhemorrhages (defined as  $\leq 10$  mm at the greatest diameter);
  - b. Absence of any macrohemorrhages  $> 10$  mm at greatest diameter;
  - c. Absence of superficial siderosis;
  - d. Absence of vasogenic edema, cerebral contusion, encephalomalacia, aneurysms, or vascular malformations;
7. Member has no history of transient ischemic attacks (TIA), stroke, or seizures within the past 12 months;
8. Prescriber attestation that the prescriber has discussed with the member the potentially increased risk of amyloid-related imaging abnormalities (ARIA) in those

- who are ApoE4 genetic homozygotes and in those who are currently taking, or who may eventually need, concomitant anticoagulant or antiplatelet therapy;
9. Dose does not exceed 10 mg/kg every 2 weeks.

**Approval duration: 3 months (6 doses of infusion only)**

**B. Other diagnoses/indications**

1. Refer to the off-label use policy if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.PMN.53

**II. Continued Therapy**

**A. Diagnosis (must meet all):**

1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01) applies;
2. Member is responding positively to therapy as evidenced by improvement or slowed decline in cognition OR the member continues to experience medical benefit based on the prescriber's assessment;
3. Documentation of one of the following cognitive/functional tests within the last month (a, b, c, d or e):
  - a. Mini-Mental State Examination (MMSE) score of  $\geq 21$ ;
  - b. Montreal Cognitive Assessment (MoCA) score of  $\geq 11$ ;
  - c. Global Clinical Dementia Rating Scale (CDR) score of 0.5 or 1;
  - d. Functional Assessment Staging Test (FAST) score of  $\leq 4$ ;
  - e. Clinical Dementia Rating-Sum of Boxes (CDR-SB) score of  $\leq 9$ ;
4. Prior to the 7<sup>th</sup> and 14<sup>th</sup> infusions, documentation of a recent (within the last month) brain MRI showing all of the following (a, b, and c):
  - a. Absence of any macrohemorrhage ( $>10$  mm at greatest diameter; symptomatic or not);
  - b. 10 or fewer cerebral microhemorrhages cumulatively (symptomatic or not);
  - c. Absence of symptomatic cerebral microhemorrhages or symptomatic superficial siderosis;
5. If request is for a dose increase, new dose does not exceed 10 mg/kg once every 2 weeks.

**Approval duration:**

- **Members with  $< 7$  total infusions: up to the 6<sup>th</sup> total infusion**
- **Members with  $< 14$  total infusions but  $> 7$  total infusions: up to the 13<sup>th</sup> total infusion**
- **Members with  $\geq 14$  total infusions: 12 infusions per PA approval**

**B. Other diagnoses/indications (must meet 1 or 2):**

1. Currently receiving medication via PA Health & Wellness benefit and documentation supports positive response to therapy or the Continuity of Care policy (PA.LTSS.PHAR.01) applies.

**Approval duration: Duration of request or 12 months (whichever is less); or**

2. Refer to the off-label use policy for the relevant line of business if diagnosis is NOT specifically listed under section III (Diagnoses/Indications for which coverage is NOT authorized): PA.CP.PMN.53

### **III. Diagnoses/Indications for which coverage is NOT authorized:**

- A. Non-FDA approved indications, which are not addressed in this policy, unless there is sufficient documentation of efficacy and safety according to the off label use policies – PA.CP.PMN.53

### **IV. Appendices/General Information**

#### *Appendix A: Abbreviation/Acronym Key*

AD: Alzheimer's disease

ARIA: amyloid-related imaging abnormalities

CDR-SB: Clinical Dementia Rating-Sum of Boxes

FAQ: Functional Assessment Questionnaire

FAST: Functional Assessment Staging Test

FDA: Food and Drug Administration

IADL: instrumental activity of daily living

MCI: mild cognitive impairment

MMSE: Mini-Mental State Examination

MoCA: Montreal Cognitive Assessment

MRI: magnetic resonance imaging

TIA: transient ischemic attack

#### *Appendix B: Therapeutic Alternatives*

Not applicable

#### *Appendix C: Contraindications/Boxed Warnings*

- Contraindication(s): serious hypersensitivity to lecanemab-irmb or to any of the excipients of Leqembi
- Boxed Warning(s): increased risk of ARIA

#### *Appendix D: Dementia Rating Scales*

- MoCA is a highly sensitive tool for early detection of MCI and has been widely adopted in clinical settings. The maximum score is 30 points. The average MoCA score for MCI is 22 (range 19-25) and the average MoCA score for Mild AD is 16 (range 11-21).
- MMSE is a series of questions asked by a health professional designed to test a range of everyday mental skills. The maximum score is 30 points where the following levels of dementia are indicated with a score of:
  - 25 to 30 suggests normal cognition,
  - 21 to 24 suggests mild dementia,
  - 13 to 20 suggests moderate dementia, and
  - less than 12 indicates severe dementia.
  - On average, the MMSE score of a person with Alzheimer's declines about two to four points each year.
- The FAQ measures instrumental activities of daily living (IADLs), such as preparing balanced meals and managing personal finances. Since functional changes are noted earlier in the dementia process with IADLs that require a higher cognitive ability compared to basic activities of daily living, this tool is useful to monitor these functional

changes over time. The score range is 0-30. A cut-point of 9 (dependent in 3 or more activities) is recommended to indicate impaired function and possible cognitive impairment.

- FAST is a measure commonly used to assess functional status in patients with dementia. It provides a comprehensive evaluation of functional ability and the potential for a functional decline over time, including physical functional abilities (dressing and grooming), functional language abilities (memory and recognition), and functional activities such as mobility or self-feeding. The FAST score ranges from 1 to 7, categorizing the stages of AD into one of the below:
  - 1: normal aging
  - 2: possible mild cognitive impairment
  - 3: mild cognitive impairment
  - 4: mild dementia
  - 5: moderate dementia
  - 6: moderately severe dementia
  - 7: severe dementia
- CDR-SB assessment is a 5-point scale used to characterize six domains of cognitive and functional performance applicable to Alzheimer’s disease and related dementias: memory, orientation, judgment and problem solving, community affairs, home and hobbies, and personal care. The information is obtained through an interview of the patient and a reliable informant (e.g., family member). This score is useful for characterizing and tracking a patient's level of impairment/dementia.
  - 0 suggests normal
  - 0.5 to 4 suggests questionable cognitive impairment
  - 0.5 to 2.5 suggests questionable impairment
  - 3.0 to 4.0 suggests very mild dementia
  - 4.5 to 9.0 suggests mild dementia
  - 9.5 to 15.5 suggests moderate dementia
  - 16.0 to 18.0 suggests severe dementia

*Appendix E: Diagnosis of Alzheimer’s Disease*

- AD
  - Interference with ability to function at work or at usual activities
  - A decline from a previous level of functioning and performing
  - Not explained by delirium or major psychiatric disorder
  - Cognitive impairment established by history-taking from the patient and a knowledgeable informant; and objective bedside mental status examination or neuropsychological testing
  - Cognitive impairment involves a minimum of two of the following domains:
    - Impaired ability to acquire and remember new information
    - Impaired reasoning and handling of complex tasks, poor judgment
    - Impaired visuospatial abilities
    - Impaired language functions (speaking, reading, writing)
    - Changes in personality, behavior, or comportsment
  - Insidious onset (gradual onset over months to years, not over hours to days)
  - Clear-cut history of worsening

- Initial and most prominent cognitive deficits are one of the following:
  - Amnestic presentation (impairment in learning and recall of recently learned information)
  - Nonamnestic presentation in either a language presentation (prominently word-finding deficits), a visuospatial presentation with visual deficits, or executive dysfunction (prominently impaired reasoning, judgment and/or problem solving)
- No evidence of substantial concomitant cerebrovascular disease, core features of dementia with Lewy bodies (DLB), prominent features of behavioral variant frontotemporal dementia (FTD) or prominent features of semantic or nonfluent/agrammatic variants of primary progressive aphasia (PPA), or evidence of another concurrent, active neurologic or non-neurologic disease or use of medication that could have a substantial effect on cognition
- MCI due to AD – core clinical criteria
  - Concern regarding change in cognition obtained from the patient, from an informant who knows the patient well, or from a skilled clinician observing the patient
  - Objective evidence of impairment in one or more cognitive domains that is not explained by age or education
  - Preservation of independence in functional abilities
  - Not demented

**V. Dosage and Administration**

Indication	Dosing Regimen	Maximum Dose
AD	10 mg/kg IV every 2 weeks	10 mg/kg every 2 weeks

**VI. Product Availability**

Vials for injection (single-dose): 200 mg/2 mL, 500 mg/5 mL

**VII. References**

1. Leqembi Prescribing Information. Nutley, NJ: Eisai Inc.; July 2023. Available at: <https://www.leqembi.com/-/media/Files/Leqembi/Prescribing-Information.pdf?hash=3d7bf1a2-5db2-4990-8388-81086f415676>. Accessed July 12, 2023.
2. Van Dyck CH, Swanson CJ, Aisen P, et al. Lecanemab in early Alzheimer’s disease. *NEJM* 2023 Jan 5;388(1):9-21.
3. Swanson CJ, Zhang Y, Dhadda S, et al. A randomized, double-blind, phase 2b proof-of-concept clinical trial in early Alzheimer’s disease with lecanemab, an anti-A $\beta$  protofibril antibody. *Alz Res Therapy* 2021;13(80):1-14.
4. Centers for Medicare & Medicaid Services. Monoclonal antibodies directed against amyloid for the treatment of Alzheimer’s disease. Medicare Coverage Database. CAG099469N; 2022. Available at: <https://www.cms.gov/medicare-coverage-database/view/nccal-decision-memo.aspx?proposed=Y&NCAId=305>. Accessed July 12, 2023.
5. Andrews JS, Desai U, Kirson NY, et al. Disease severity and minimal clinically important differences in clinical outcome assessments for Alzheimer’s disease clinical trials. *Alzheimer’s & Dementia* 2019 Aug;5:354-63.
6. Trzepacz PT, Hochstetler H, Wang S, et al. Relationship between the Montreal Cognitive Assessment and Mini-Mental State Examination for assessment of mild cognitive impairment in older adults. *BMC Geriatrics* 2015;15:107. <https://doi.org/10.1186/s12877-015-0103-3>.

**Coding Implications**

Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

<b>HCPCS Codes</b>	<b>Description</b>
J0174	Lecanemab-irmb, 1 mg

<b>Reviews, Revisions, and Approvals</b>	<b>Date</b>	<b>P&amp;T Approval Date</b>
Policy created	07/2023	