

Prior Authorization Review Panel

CHC-MCO Policy Submission

A separate copy of this form must accompany each policy submitted for review. Policies submitted without this form will not be considered for review.

Plan: PA Health & Wellness	Submission Date: 07/01/2021			
Policy Number: PA.CP.PHAR.468	Effective Date: 06/2021 Revision Date: 06/2021			
Policy Name: Aducanumab-avwa (Aduhelm)				
Type of Submission – <u>Check all that apply</u> :				
 ✓ New Policy ☐ Revised Policy* ☐ Annual Review - No Revisions 				
□ Statewide PDL - Select this box when submitting policies for Statewide PDL implementation and when submitting policies for drug classes included on the Statewide PDL.				
*All revisions to the policy <u>must</u> be highlighted using track changes throughout the document.				
Please provide any changes or clarifying information for the policy below:				
Name of Authorized Individual (Please type or print):	Signature of Authorized Individual:			
Venkateswara R. Davuluri, MD	Can Saulun			

CLINICAL POLICY

Aducanumab-avwa



Clinical Policy: Aducanumab-avwa (Aduhelm)

Reference Number: PA.CP.PHAR.468

Effective Date: 06/2021 Last Review Date: 06/2021

Coding Implications
Revision Log

Description

Aducanumab-avwa (Aduhelm[™]) is a monoclonal antibody targeting amyloid beta.

FDA Approved Indication(s)

Aduhelm is indicated for the treatment of Alzheimer's disease.

This indication is approved under accelerated approval based on reduction in amyloid beta plaques observed in patients treated with Aduhelm. Continued approval for this indication may be contingent upon verification of clinical benefit in confirmatory trial(s).

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 health plans affiliated with PA Health & Wellness[®] that Aduhelm is **medically necessary** when the following criteria are met:

I. Initial Approval Criteria

- A. Alzheimer's Disease (must meet all):
 - 1. Diagnosis of Alzheimer's disease (see Appendix E);
 - 2. Prescribed by a neurologist or geriatric psychiatrist;
 - 3. Age \geq 50 years;
 - 4. Presence of beta-amyloid plaques verified by one of the following (a or b):
 - a. Positron emission tomography (PET) scan;
 - b. Cerebrospinal fluid (CSF) testing;
 - 5. Documentation of recent (within the last year) brain magnetic resonance imaging (MRI) demonstrating all of the following (a, b, and c):
 - a. No localized superficial siderosis;
 - b. Less than 10 brain microhemorrhages;
 - c. No brain hemorrhage > 1 cm within the past year;
 - 6. Objective evidence of cognitive impairment at screening (see Appendix F);
 - 7. Clinical Dementia Rating-Global Score (CDR-GS) of 0.5;
 - 8. Mini-Mental State Exam (MMSE) score ≥ 24 ;
 - 9. Member is currently not taking any blood thinners, except aspirin $\leq 81 \text{ mg}$;
 - 10. Member has not had any brain hemorrhage, bleeding disorder, or cerebrovascular abnormalities in the last 6 months;
 - 11. All of the following causes of dementia have been ruled out:
 - a. Vascular dementia;
 - b. Lewy body dementia (DLB);
 - c. Frontotemporal dementia (FTD);
 - d. Parkinson's disease dementia;



- 12. Dose does not exceed the following (must meet all):
 - a. Infusion 1 and 2: 1 mg/kg per 4 weeks;
 - b. Infusion 3 and 4: 3 mg/kg per 4 weeks;
 - c. Infusion 5 and 6: 6 mg/kg per 4 weeks.

Approval duration: 6 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. Alzheimer's Disease (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 slowed decline in cognition;
- 3. Prior to the 7th and 12th infusion, documentation of recent (within the last month) brain MRI showing one of the following (a or b):
 - a. Less than 10 new incident microhemorrhages and less than 2 focal areas of superficial siderosis;
 - b. Radiographic stabilization since baseline (i.e., no increase in size or number of ARIA-H);
- 4. If request is for a dose increase, new dose does not exceed 10 mg/kg once every 4 weeks.

Approval duration:

- Members with < 7 total infusions: up to the 6^{th} total infusion
- Members with < 12 total infusions but > 7 total infusions: up to the 11th total infusion
- Members with > 12 total infusions: 6 infusions per PA approval

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

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 FDA: Food and Drug Administration CDR-GS: Clinical Dementia Rating – global score

CSF: cerebrospinal fluid

DLB: Lewy body dementia FTD: frontotemporal dementia MMSE: Mini-Mental State Exam MRI: magnetic resonance imaging



PET: positron emission tomography

Appendix B: Therapeutic Alternatives Not applicable

Appendix C: Contraindications/Boxed Warnings

None reported

Appendix D: Dementia Rating Scales

- CDR-GS is useful for characterizing and tracking a patient's level of impairment/dementia:
 - \circ 0 = normal
 - \circ 0.5 = very mild dementia
 - \circ 1 = mild dementia
 - \circ 2 = moderate dementia
 - \circ 3 = severe dementia
- Clinical Dementia Rating Sum of Boxes (CDR-SB) assessment is a 5-point scale used to characterize six domains of cognitive and functional performance applicable to Alzheimer disease and related dementias: Memory, Orientation, Judgment & Problem Solving, Community Affairs, Home & 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.
 - o 0 suggests normal
 - o 0.5 to 4 suggests questionable cognitive impairment
 - o 0.5 to 2.5 suggests questionable impairment
 - o 3.0 to 4.0 suggests very mild dementia
 - o 4.5 to 9.0 suggests mild dementia
 - o 9.5 to 15.5 suggests moderate dementia
 - o 16.0 to 18.0 suggests severe dementia
- 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 and a score of:
 - o 25 to 30 suggest normal cognition,
 - o 20 to 24 suggests mild dementia,
 - o 13 to 20 suggests moderate dementia, and
 - o less than 12 indicates severe dementia.
 - o On average, the MMSE score of a person with Alzheimer's declines about two to four points each year.
- The Alzheimer's Disease Assessment Scale-cognitive subscale (ADAS-Cog 13) is the standard cognitive scale used to measure neuropsychological changes in Alzheimer's disease clinical trials. A 4-point change is generally considered as indicating a clinically meaningful difference.

Appendix E: Diagnosis of Alzheimer's disease



- Alzheimer's disease
 - o Interference with ability to function at work or at usual activities
 - o 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
 - O 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 comportment
 - o Insidious onset (gradual onset over months to years, not over hours to days)
 - o Clear-cut history of worsening
 - o 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)
 - O No evidence of substantial concomitant cerebrovascular disease, core features of dementia with DLB, prominent features of behavioral variant 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
- Mild cognitive impairment due to Alzheimer's disease core clinical criteria
 - o 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
 - o Preservation of independence in functional abilities
 - Not demented

Appendix F: Objective Evidence of Cognitive Impairment

- Cognitive impairment is established by history-taking from the patient and a knowledgeable informant, along with validated cognitive assessment instruments:
 - o Evidence of memory impairment
 - o Evidence of impairment in one or more cognitive domains that is not explained by age or education
 - Evidence of language presentation, with prominent word-finding deficits; a
 visuospatial presentation, with visual cognitive deficits; or a dysexecutive
 presentation, with prominent impairment of reasoning, judgment, and/or problem
 solving
 - o AD Assessment Scale-Cognitive Subscale (13 items) [ADAS-Cog 13]



o AD Cooperative Study-Activities of Daily Living Inventory (Mild Cognitive Impairment version) [ADCS-ADL-MCI]

V. Dosage and Administration

Indication	Dosing Regimen		Maximum Dose
Alzheimer's	Initial dose should be titrated up as shown below:		10 mg/kg every 21
disease	IV infusion (every 4	Aduhelm dosage	days
	weeks)	(administered over	
		approximately one hour)	
	Infusion 1 and 2	1 mg/kg	
	Infusion 3 and 4	3 mg/kg	
	Infusion 5 and 6	6 mg/kg	
	Infusion 7 and beyond	10 mg/kg	
	After an initial titration, t maintenance dose is 10 m or 0.22 micron in-line file hour every four weeks, and		

VI. Product Availability

Vial for injection (single-dose): 170 mg/1.7 mL, 300 mg/3 mL

VII. References

- 1. Aduhelm Prescribing Information. Cambridge, MA: Biogen, Inc.; June 2021. Available at: https://www.accessdata.fda.gov/drugsatfda_docs/label/2021/761178s000lbl.pdf. Accessed June 10, 2021.
- 2. ClinicalTrials.gov. 221AD301 Phase 3 Study of Aducanumab (BIIB037) in Early Alzheimer's Disease (ENGAGE). Available at: https://clinicaltrials.gov/ct2/show/NCT02477800. Accessed June 10, 2021.
- 3. ClinicalTrials.gov. 221AD302 Phase 3 Study of Aducanumab (BIIB037) in Early Alzheimer's Disease (EMERGE). Last updated May 6, 2021. Available at: https://clinicaltrials.gov/ct2/show/NCT02484547. Accessed June 10, 2021.
- 4. Albert MS, DeKosky ST, Dickson D, et al. The diagnosis of mild cognitive impairment due to Alzheimer's disease: Recommendations from the National Institute on Aging-Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease. Alzheimers Dement 2011; 7(3):270-279.
- 5. McKhann GM, Knopman DS, Chertkow H, et al. The diagnosis of dementia due to Alzheimer's disease: Recommendations from the National Institute on Aging-Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease. Alzheimers Dement 2011; 7(3):263-269.
- 6. Peripheral and Central Nervous System (PCNS) Drugs Advisory Committee Meeting. Combined FDA and Applicant PCNS Drugs Advisory Committee Briefing Document. November 6, 2020. Available at: https://www.fda.gov/advisory-committees/advisory-committee-datvisory-committee-datvisory-committee-meeting#event-materials. Accessed June 10, 2021.



7. Institute for Clinical and Economic Review: Draft Evidence Report - Aducanumab for Alzheimer's disease: Effectiveness and Value. May 5, 2021. Available at: https://icer.org/wp-content/uploads/2020/10/ICER_ALZ_Draft_Evidence_Report_050521.pdf. Accessed June 10, 2021.

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.

HCPCS Codes	Description
TBD	Injection, aducanumab, # mg

Reviews, Revisions, and Approvals	Date	P&T Approval Date
Policy created	06/2021	