

Kisunla (donanemab-azbt)

Disclaimer

Clinical guidelines are developed and adopted to establish evidence-based clinical criteria for utilization management decisions. Clinical guidelines are applicable according to policy and plan type. The Plan may delegate utilization management decisions of certain services to third parties who may develop and adopt their own clinical criteria.

Coverage of services is subject to the terms, conditions, and limitations of a member's policy, as well as applicable state and federal law. Clinical guidelines are also subject to in-force criteria such as the Centers for Medicare & Medicaid Services (CMS) national coverage determination (NCD) or local coverage determination (LCD) for Medicare Advantage plans. Please refer to the member's policy documents (e.g., Certificate/Evidence of Coverage, Schedule of Benefits, Plan Formulary) or contact the Plan to confirm coverage.

Summary

Alzheimer's disease (AD) is a progressive neurodegenerative disorder that can lead to dementia. Alzheimer's dementia is characterized by cognitive decline, memory impairment, and functional disability. Treatment goals for dementia include improving cognitive function and overall quality of life. Alzheimer's disease is the most common cause of dementia, affecting millions of people worldwide.

Alzheimer's dementia is often treated with acetylcholinesterase inhibitors (AChEIs), such as donepezil (Aricept), rivastigmine (Exelon), and galantamine (Razadyne), as first-line therapy for those with mild, moderate or severe dementia. Alternative therapies include N-methyl-D-aspartate (NMDA) receptor antagonists such as memantine (Namenda) for moderate-to-severe dementia - which can be used as monotherapy or combined with AChEIs. Additionally, newer amyloid-targeting therapies, such as Leqembi (lecanemab) and Kisunla (donanemab), are indicated for initiation in those with mild cognitive impairment or mild dementia.

Kisunla (donanemab-azbt) is a monoclonal antibody that targets amyloid beta plaques in the brain and is approved by the FDA for treatment of early Alzheimer's disease (AD). While clinical trials have shown some potential benefits in slowing cognitive decline, the evidence is limited and the clinical meaningfulness of the observed effects remains uncertain. Additionally, monoclonal antibodies directed

against aggregated forms of beta amyloid, like Kisunla (donanemab-azbt,) are associated with risks of amyloid-related imaging abnormalities (ARIA) that can be serious. ARIA is usually asymptomatic, although serious and life-threatening events can occur, which can be fatal. Serious intracerebral hemorrhages greater than 1 cm have occurred in those treated with this class of medications. ARIA-E can cause focal neurologic deficits that can mimic ischemic stroke. Given the limited evidence of clinically meaningful benefit and potential risks, Kisunla (donanemab-azbt) is considered not medically necessary for the treatment of Alzheimer's disease at this time.

Definitions

"Alzheimer's disease (AD)" is a progressive neurodegenerative disorder characterized by cognitive decline, memory loss, and functional impairment.

"Mild cognitive impairment (MCI)" refers to an early stage of cognitive decline that may progress to dementia.

"Amyloid beta (A β)" are protein fragments that accumulate to form plaques in the brains of Alzheimer's patients.

"Amyloid-related imaging abnormalities (ARIA)" refers to brain swelling or bleeding that can occur with anti-amyloid therapies. ARIA can be broken down into subtypes: ARIA-E (edema/effusion), and ARIA-H (microhemorrhage and superficial siderosis).

Policy Statement on Kisunla (donanemab-azbt) for Alzheimer's Disease Efficacy Information

The use of Kisunla (donanemab-azbt) is considered not medically necessary for the treatment of Alzheimer's disease or any other indication, as the available evidence is insufficient to demonstrate clinically meaningful benefit that outweighs potential risks.

- The phase III TRAILBLAZER-ALZ 2 trial showed Kisunla (donanemab-azbt) slowed cognitive decline by 35.1% in patients with low/medium tau and by 22.3% in the overall population over 76 weeks, as measured by the integrated Alzheimer's Disease Rating Scale (iADRS).
- Secondary outcomes showed modest benefits on measures like the Clinical Dementia Rating Scale-Sum of Boxes (CDR-SB) and activities of daily living.
- Kisunla (donanemab-azbt) substantially reduced amyloid plaque levels but did not significantly affect tau protein levels.
- The earlier phase II TRAILBLAZER-ALZ trial showed a modest 3.2 point difference on the iADRS but failed to meet secondary clinical endpoints.
- The phase III TRAILBLAZER-ALZ 4 trial assessed Kisunla (donanemab-azbt) against a previously approved amyloid-targeting monoclonal antibody, aducanumab (aducanumab has since been removed from the US market). Amyloid plaque clearance was significantly greater at 6, 12, and 18 months in the Kisunla (donanemab-azbt) group compared to the aducanumab-treated arm.

Rates of ARIA were also significantly lower in the Kisunla (donanemab-azbt) arm compared to the aducanumab-treated arm (29.6% versus 40.6% for all ARIA subtypes at 18 months). This study did not assess individual-oriented and clinical outcomes related to cognitive function, as it was open-label.

- A secondary analysis of the TRAILBLAZER-ALZ, TRAILBLAZER-ALZ 2 studies, and an open-label addendum. In a total of 3030 participants, both ARIA edema/effusion (ARIA-E), and ARIA-microhemorrhages and hemosiderin (ARIA-H) were significantly higher in the Kisunla (donanemab-azbt) group compared to placebo (24.4% and 31.3% versus 1.9% and 13.0%, respectively). Rates of serious ARIA-E (1.5%), and symptomatic ARIA-E (5.8%) were low. The most common risk factors for higher rates of ARIA-E were: APOE ϵ 4 allele number, greater number of microhemorrhages, presence of cortical superficial siderosis, higher amyloid plaque, and elevated mean arterial pressure. Antihypertensive use was associated with a lower risk of ARIA-E.

The use of Kisunla (donanemab-azbt) is associated with significant safety concerns that must be carefully weighed against its modest efficacy. Key risks include:

- Amyloid-Related Imaging Abnormalities (ARIA):
 - ARIA occurred in 36% of patients treated with donanemab compared to 14% on placebo.
 - ARIA-E (edema) occurred in 24% of donanemab patients vs 2% on placebo.
 - ARIA-H (microhemorrhage) occurred in 25% vs 13% on placebo.
 - Symptomatic ARIA occurred in 6% of donanemab patients.
 - Severe ARIA-E occurred in 2%, severe ARIA-H microhemorrhage in 5%, and severe ARIA-H superficial siderosis in 5% of patients.
- Intracerebral Hemorrhage:
 - Intracerebral hemorrhage >1 cm occurred in 0.5% (4/853) of donanemab patients vs 0.2% (2/874) on placebo.
 - Three patients died after developing serious ARIA.
- Increased Risk in ApoE ϵ 4 Homozygotes:
 - ARIA incidence was higher in ApoE ϵ 4 homozygotes (55%) compared to heterozygotes (36%) and noncarriers (25%).
 - Severe ARIA rates were also higher in homozygotes.
- Other Adverse Effects:
 - Infusion-related reactions occurred in 9% of donanemab patients vs 0.5% on placebo.
 - Hypersensitivity reactions occurred in 3% of donanemab patients vs 0.7% on placebo.
- Testing for ApoE ϵ 4 status is recommended before initiating treatment.
- The prescribing information contains a boxed warning about the risk of ARIA.
 - Baseline brain MRI and periodic MRIs are required to monitor for ARIA.
 - Enhanced clinical vigilance for ARIA is recommended during the first 24 weeks of treatment.

Medical Necessity Criteria for Kisunla (donanemab-azbt) for Alzheimer's Disease

Kisunla (donanemab-azbt) is considered not medically necessary for any indication, including for the treatment of Alzheimer's disease.

Experimental or Investigational / Not Medically Necessary

Kisunla (donanemab-azbt) is considered experimental, investigational, and not medically necessary for the treatment of Alzheimer's disease or any other indication for the following reasons:

1. While clinical trials have shown some potential for slowing cognitive decline, the magnitude of benefit is modest and of uncertain clinical significance.
2. Kisunla (donanemab-azbt) is associated with risks of ARIA, which can be serious and potentially life-threatening in some cases.
3. There is insufficient evidence that the potential benefits of Kisunla (donanemab-azbt) outweigh its risks in real-world clinical practice outside of clinical trials.
4. Professional guidelines have not yet recommended routine use of Kisunla (donanemab-azbt) for Alzheimer's disease management. In March of 2025, the European Medicines Agency Committee recommended not granting marketing authorization of Kisunla (donanemab-azbt), however in July of 2025, after a re-examination procedure, the Committee changed positing and will now be recommended the product be allowed marketing authorization. The United Kingdom's National Institute for Healthcare Excellence (NICE), is pending a guidance document for Kisunla (donanemab-azbt). In June 2025, the NICE final draft guidance found there was still too little benefit for both Kisunla (donanemab-azbt) and Leqembi (lecanemab) "to justify the cost to the NHS [National Health System]" - the final draft has not yet been posted.

Given these limitations in the current evidence, Kisunla (donanemab-azbt) is considered not medically necessary for the treatment of Alzheimer's disease or any other indication at this time. The Plan will continue to review emerging evidence on Kisunla (donanemab-azbt) and may reevaluate this policy as new data become available.

Applicable Billing Codes (HCPCS/CPT Codes)

Service(s) name	
CPT/HCPCS Codes considered experimental or investigational or not considered medically necessary:	
Code	Description
96365	Intravenous infusion, for therapy, prophylaxis, or diagnosis (specify substance or drug); initial, up to 1 hour

J0175	Injection, donanemab-azbt, 2 mg
ICD-10 Codes considered experimental or investigational or not considered medically necessary:	
<i>Code</i>	<i>Description</i>
G30.0	Alzheimer'S Disease With Early Onset
G30.1	Alzheimer'S Disease With Late Onset
G30.8	Other Alzheimer'S Disease
G30.9	Alzheimer'S Disease, Unspecified
Z00.6	Encounter For Examination For Normal Comparison And Control In Clinical Research Program

References

1. Bloom GS. Amyloid- β and tau: the trigger and bullet in Alzheimer disease pathogenesis. JAMA Neurol. 2014;71(4):505-508. doi:10.1001/jamaneurol.2013.5847
2. CH van Dyck et al. Lecanemab in early Alzheimer's disease. N Engl J Med 2023; 388:9. doi:10.1056/NEJMoa2212948
3. CMS Press Release. Statement: broader Medicare coverage of Leqembi available following FDA traditional approval. July 6, 2023. Available at: <https://bit.ly/46WYe9y>. Accessed August 6, 2024.
4. Dickson SP, Wessels AM, Dowsett SA, et al. 'Time saved' as a demonstration of clinical meaningfulness and illustrated using the donanemab TRAILBLAZER-ALZ study findings. J Prev Alzheimers Dis. 2023;10(3):595-599. doi:10.14283/jpad.2023.50
5. Ebell MH, Barry HC, Baduni K, Grasso G. Clinically important benefits and harms of monoclonal antibodies targeting amyloid for the treatment of Alzheimer Disease: a systematic review and meta-analysis. Ann Fam Med. 2024;22(1):50-62. doi:10.1370/afm.3050
6. Esquer A, Blanc F, Collongues N. Immunotherapies targeting amyloid and tau protein in Alzheimer's Disease: should we move away from diseases and focus on biological targets? a systematic review and expert opinion. Neurol Ther. 2023;12(6):1883-1907. doi:10.1007/s40120-023-00541-1
7. Hameed S, Fuh JL, Senanarong V, et al. Role of fluid biomarkers and PET imaging in early diagnosis and its clinical implication in the management of Alzheimer's disease. J Alzheimers Dis Rep. 2020;4(1):21-37. doi:10.3233/ADR-190143[PubMed 32206755]
8. Jack CR Jr, Andrews JS, Beach TG, Buracchio T, Dunn B, Graf A, Hansson O, Ho C, Jagust W, McDade E, Molinuevo JL, Okonkwo OC, Pani L, Rafii MS, Scheltens P, Siemers E, Snyder HM, Sperling R, Teunissen CE, Carrillo MC. Revised criteria for diagnosis and staging of Alzheimer's disease: Alzheimer's Association Workgroup. Alzheimers Dement. 2024 Aug;20(8):5143-5169. doi: 10.1002/alz.13859. Epub 2024 Jun 27. PMID: 38934362; PMCID: PMC11350039.
9. JR Sims et al. Donanemab in early symptomatic Alzheimer disease: the TRAILBLAZER-ALZ 2 randomized clinical trial. JAMA 2023; 330:512. doi:10.1001/jama.2023.13239
10. Kisunla (donanemab) [prescribing information]. Indianapolis, IN: Eli Lilly and Company; July 2025.
11. Mintun MA, Lo AC, Duggan Evans C, et al. Donanemab in early Alzheimer's disease. N Engl J Med. 2021;384(18):1691-1704. doi:10.1056/NEJMoa2100708
12. Pontecorvo MJ, Lu M, Burnham SC, et al. Association of donanemab treatment with exploratory plasma biomarkers in early symptomatic Alzheimer disease: a secondary analysis of the TRAILBLAZER-ALZ randomized clinical trial. JAMA Neurol. 2022;79(12):1250-1259. doi:10.1001/jamaneurol.2022.3392

13. Qiao Y, Gu J, Yu M, Chi Y, Ma Y. Comparative efficacy and safety of monoclonal antibodies for cognitive decline in patients with Alzheimer's disease: a systematic review and network meta-analysis. *CNS drugs*. 2024;38(3):169-192. doi:10.1007/s40263-024-01067-2
14. Salloway S, Lee E, Papka M, et al. TRAILBLAZER - ALZ4: Topline study results directly comparing donanemab to aducanumab on amyloid lowering in early, symptomatic Alzheimer's disease. *J Prev Alzheimers Dis*. 2022;9(Suppl 1). Accessed August 10, 2024. <https://www.ctad-alzheimer.com/files/files/JPAD%20CTAD%20abstracts.pdf>
15. Salloway S, Pain A, Lee E, et al. TRAILBLAZER-ALZ 4: A phase 3 trial comparing donanemab with aducanumab on amyloid plaque clearance in early, symptomatic Alzheimer's disease. *Alzheimers Dement*. 2025 May;21(5):e70293. doi: 10.1002/alz.70293.
16. Shahid K, Tamene Y, Mody SP, et al. Comparative study of safety and efficacy of angiotensin-receptor blockers and anti amyloid- β monoclonal antibodies for the treatment of Alzheimer's Disease: a systematic review. *Cureus*. 2023;15(8):e43984. Published 2023 Aug 23. doi:10.7759/cureus.43984
17. Shcherbinin S, Evans CD, Lu M, et al. Association of amyloid reduction after donanemab treatment with tau pathology and clinical outcomes: the TRAILBLAZER-ALZ randomized clinical trial. *JAMA Neurol*. 2022;79(10):1015-1024. doi:10.1001/jamaneurol.2022.2793
18. Sims JR, Zimmer JA, Evans CD, et al. Donanemab in early symptomatic Alzheimer disease: the TRAILBLAZER-ALZ 2 randomized clinical trial. *JAMA*. 2023;330(6):512-527. doi:10.1001/jama.2023.13239
19. Sun X, Chen WD, Wang YD. B-amyloid: the key peptide in the pathogenesis of Alzheimer's disease. *Front Pharmacol*. 2015;6:221. doi:10.3389/fphar.2015.00221
20. Teipel SJ, Temp AGM, Lutz MW. Bayesian meta-analysis of phase 3 results of aducanumab, lecanemab, donanemab, and high-dose gantenerumab in prodromal and mild Alzheimer's disease. *Alzheimers Dement (N Y)*. 2024;10(1):e12454. doi:10.1002/trc2.12454
21. Terao I, Kodama W. Comparative efficacy, tolerability and acceptability of donanemab, lecanemab, aducanumab and lithium on cognitive function in mild cognitive impairment and Alzheimer's disease: a systematic review and network meta-analysis. *Ageing Res Rev*. 2024;94:102203. doi:10.1016/j.arr.2024.102203
22. Zimmer JA, Ardayfio P, Wang H, et al. Amyloid-Related Imaging Abnormalities With Donanemab in Early Symptomatic Alzheimer Disease: Secondary Analysis of the TRAILBLAZER-ALZ and ALZ 2 Randomized Clinical Trials. *JAMA Neurol*. 2025 May 1;82(5):461-469. doi: 10.1001/jamaneurol.2025.0065.

Clinical Guideline Revision / History Information

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