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| 2014 2024 | Alzheimer's disease and strategies for treatment. Cite Chaves JCS, Dando SJ, White AR, Oikari LE. Biochim Biophys Acta Mol Basis Dis. 2023 Nov 24:166967. doi: 10.1016/j.bbadis.2023.166967. Online ahead of print. | | |
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Tolar et al. Alzheimer's Research & Therapy (2020) 12:95 https://doi.org/10.1186/s13195-020-00663-w

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REVIEW

Aducanumab, gantenerumab, BAN2401, and ALZ-801—the first wave of amyloidtargeting drugs for Alzheimer's disease with potential for near term approval

Martin Tolar^{1*}⁽⁶⁾, Susan Abushakra¹, John A. Hey¹, Anton Porsteinsson² and Marwan Sabbagh³

Abstract

The body of evidence suggesting a causative, initiating role of beta amyloid (A β) in the pathogenesis of Alzheimer's disease (AD) is substantial. Yet, only a few anti-amyloid agents have shown meaningful efficacy in clinical trials. We evaluated the unifying characteristics of anti-amyloid agents with positive clinical or biomarker effects in long-duration trials and analyzed how pharmacological characteristics determine their clinical product profiles. Four agents with the potential for near term approval fulfill these criteria: the injectable antibodies, aducanumab, gantenerumab, and BAN2401, and a small molecule oral agent, ALZ-801. Aducanumab and BAN2401 showed significant efficacy on both clinical and biomarker outcomes; gantenerumab showed significant biomarker effects, with no clinical efficacy reported to date; and ALZ-801 showed significant clinical effects in the high-risk population of patients homozygous for the ɛ4 allele of

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Hey JA, Kocis P, Hort J, Abushakra S, Power A, Vyhnálek M, Yu JY, Tolar M. CNS Drugs. 2018 Sep;32(9):849-861. doi: 10.1007/s40263-018-0554-0. PMID: 30076539 Free PMC article. Clinical Trial.

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Kocis P, Tolar M, Yu J, Sinko W, Ray S, Blennow K, Fillit H, Hey JA.

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