

Treating Alzheimer's: A New Era Begins with Lecanemab

Few diagnoses in medicine are more devastating than Alzheimer's disease (AD). Barely known to the public four decades ago, the number of people living with dementia – estimated to stand at 55 million in 2019 – is expected to rise to 139 million in 2050¹, and 75% of these individuals have not been diagnosed. The toll on patients, families, and society of this ubiquitous and ultimately fatal disorder is staggering. The number affected more than doubles if one includes the millions of cognitively normal older people who do not yet know the disease is underway in their brains. But breaking news from the Clinical Trials in Alzheimer's Disease (CTAD) Conference late November 2022 suggests this bleak outlook is changing. A disease-modifying treatment for Alzheimer's has finished a highly successful trial (called Clarity AD), the results of which will soon be reviewed by the U.S Food and Drug Administration, with approval widely expected to follow.

At the CTAD Conference in San Francisco, around 2000 physicians, scientists, pharmaceutical investigators and others viewed and intensively discussed the Clarity AD findings². The data presentations were detailed, comprehensive, and transparent. Most AD experts in the audience responded with enthusiastic approval, viewing this study of lecanemab, a monoclonal antibody which preferentially targets Abeta "protofibrils" (smaller Abeta assemblies), as the most clearly positive and encouraging AD trial yet completed. In this randomized, double-blinded, placebo-controlled trial of 1,795 patients with mild cognitive impairment (MCI) or mild AD dementia, intravenous lecanemab given every two weeks over 18 months led to statistically significant ($p < 0.001$) slowing of cognitive and functional decline on the CDR-SB primary outcome and on all three secondary outcomes related to cognition and daily function (ADAS-cog14; ADCOMS; ADCS-MCI score on Activities of Daily Living). Sensitivity analyses showed similar effects, indicating the robustness of the study results. On average, the slowing of decline on the key endpoints ranged from 23% to 37% vs. placebo. Importantly, these meaningful effects of lecanemab over placebo widened from 3 to 18 months of treatment on all 5 key outcomes, signifying clinical benefit and providing a rational basis for hoping that even more slowing will occur over time. There were also sizeable and significant positive effects on classical biological markers of AD: amyloid plaques and neurofibrillary tangles on PET scans and blood and spinal fluid levels of the proteins that comprise these hallmark lesions of AD. Thus, lecanemab appears to reduce amyloid pathology in AD and beneficially slows the cascade of biological events which result in cognitive decline.

Throughout the meeting, clinicians who have collectively cared for millions of Alzheimer's patients and families referred to this outcome as a foundational gamechanger in a disease which inexorably robs its victims of their most human qualities -- memory, judgment, equanimity, and independence (the conduct of everyday life). The results presented at CTAD suggest that over the course of the 18-month trial, those on lecanemab progressed almost 6 months slower than those on placebo. Treatments like lecanemab hold the promise of improving the quality of life of our patients and their families experiencing AD. Indeed, evidence of such benefits were observed in the form of 25-50% less decline on four scales of patient- and caregiver-reported quality of life and disease burden.

Regarding safety, the key adverse event, as expected, was the development of amyloid-related imaging abnormalities (ARIA) seen on MRI scans. ARIA with localized, typically transient brain edema (ARIA-E) occurred in 12.6% of lecanemab recipients and 1.7% of those on placebo overall. Less than 3% of patients had any symptoms associated with ARIA, and serious symptoms were even more rare. The

ARIA-E rate was lower than in previous trials of antibodies that target amyloid plaques directly. ARIA was well managed in the trial, with careful safety monitoring by knowledgeable clinicians. Other adverse events included infusion-related reactions occurring during the first infusion and not interfering with continued treatment. For appropriately selected patients under the care of proficient clinicians with sufficient resources to provide proper patient detection and monitoring, ARIA risk should be manageable in real-world clinical settings. The longer-term safety and efficacy of lecanemab in actual practice can be monitored in longitudinal registries, such as the recently launched Alzheimer's Network (ALZNET).

The Clarity AD trial represents an unprecedented and foundational leap in the search for a disease-modifying treatment for AD. It is the first to show an unequivocal effect in changing the rate of decline on diverse clinical, cognitive, and functional endpoints, converging with validated, AD-associated brain, cerebrospinal fluid and blood biomarker endpoints. Further success may be possible with this treatment as we leverage biomarker-informed precision medicine approaches that should increase treatment benefits and reduce risk and burdens in subsets of AD patients.

The success of lecanemab is not a reason to pause our efforts or interrupt the momentum towards better treatments for AD. Lecanemab is not a cure for AD. Over months and years, treated patients will continue to decline but, on average, would be expected to do so more slowly. Some are likely to benefit more than others, as in all chronic diseases. Our patients will need ever more effective therapies, and their families need the hope and relief that these treatments will provide. The Clarity AD results will spur more investment in Alzheimer diagnostics and therapeutics. Non-pharmacological approaches that seek to reduce lifestyle factors or therapeutics that address other AD-associated pathways can be combined with this new medicine.

Yet even as we continue to work to push our field forward, we must get scientifically validated and clinically relevant therapies like lecanemab to patients as soon as possible. Lecanemab was developed and tested in patients with early-stage AD, and every day of delay in patient access to this therapy may result in treatable patients progressing beyond the window of therapeutic opportunity. We cannot allow the uninterrupted decline of AD patients we have known for decades to continue when effective therapies are available.

The many undersigned AD clinicians and other experts know this terrible disease all too well from witnessing it up close. We herald the foundational advance represented by the advent of lecanemab therapy. Now, we must build on the success of science to translate these gains into even better outcomes for patients and families. Autonomy and justice dictate that our patients have equitable access and the opportunity to make informed choices regarding reasonable treatments that can impact their lives and well-being. No barrier can be allowed to stand between our patients and a treatment that has a reasonable risk-benefit ratio and significantly reduces the causative pathology.

1. World Health Organization, <https://www.who.int/news-room/fact-sheets/detail/dementia>, last accessed 12/7/2022

2. van Dyck, Christopher H et al. "Lecanemab in Early Alzheimer's Disease." *The New England journal of medicine*, 10.1056/NEJMoa2212948. 29 Nov. 2022, doi:10.1056/NEJMoa2212948

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CONFLICT OF INTEREST DISCLOSURES (declared by signees – updated Dec 20, 2022)

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Dr. Aisen has research agreements with Eisai and Lilly, and has consulted with Merck, Biogen, Genentech, Roche and Abbvie

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Dr. Atri discloses that over the last 20+ years as a practicing cognitive neurologist, neuroscientist and AD clinical trialist he has served as an investigator or consultant for many organizations (public, private, foundation, governmental and non-profits) and bio-pharmaceutical companies, including multiple biopharmaceutical companies that have AD-related or anti-amyloid monoclonal antibodies experimental therapeutics, drugs or pipelines. Directly relevant to

this statement on lecanemab, Dr. Atri specifically discloses that he has consulted or served as a site-investigator on sponsored trials to his institution for the collaborating partners and makers of lecanemab: Eisai and Biogen. The views expressed by signing this letter on lecanemab are his own.

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Alzheimer's Association Zenith Grant, American Health Assistance Foundation, Glenn Foundation, Ruth K. Broad Biomedical Research Foundation, Anonymous Foundation, Merck research collaboration. Alzheimer's Association, Association for Frontotemporal Degeneration FTD Biomarkers Initiative, BrightFocus Foundation, Cure Alzheimer's Fund, Foundation for Barnes Jewish Hospital, GHR Foundation, MetLife Foundation, Rainwater Foundation Tau Consortium, Tau SILK Consortium (Abbvie, Biogen, Lilly), Centene, Stable Isotope Labeling Quantitation (SILQ) Center donors Richard Frimel, David & Amy Payne, John & Linda Tracy, Pat and Jane Tracy, Tom & Catherine Tracy, Robert Willman, NFL

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DIAN-TU Pharma Consortium: (Active: Biogen, Eisai, Eli Lilly & Co., Janssen, Roche/Genentech, United Neuroscience. Previous: AbbVie, Amgen, AstraZeneca, Forum, Mithridion, Novartis, Pfizer, Sanofi)

DIAN-TU Trial Companies: Eisai, Eli Lilly and Co., Roche, Janssen, Avid Radiopharmaceuticals
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Randall J Bateman is a co-founder and on the scientific advisory board of C2N Diagnostics and reports research support from AbbVie, Avid Radiopharmaceuticals, Biogen, Bristol Meyers Squibb, Centene, Eisai, Eli Lilly and Company, Genentech, Inc., F. Hoffmann-La Roche Ltd, Janssen, and Novartis. He has provided consulting services for Amgen and F. Hoffman La-Roche. Washington University has equity ownership interest in C2N Diagnostics.

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Dr. Donohue consulted for Roche, received research funding from Eli Lilly and Eisai, and his spouse is a full-time employee of Janssen.

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WF has performed contract research for Biogen MA Inc, and Boehringer Ingelheim. WF has been an invited speaker at Boehringer Ingelheim, Biogen MA Inc, Danone, Eisai, WebMD Neurology (Medscape), NovoNordisk, Springer Healthcare, European Brain Council. WF is consultant to Oxford Health Policy Forum CIC, Roche, and Biogen MA Inc. WF participated in advisory boards of Biogen MA Inc, Roche, and Eli Lilly. All funding is paid to her institution.

WF is member of the steering committee of PAVE, and Think Brain Health.

WF was associate editor of Alzheimer, Research & Therapy in 2020/2021. WF is associate editor at Brain.

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I do not own stock and do not benefit from the profit of EISAI/Biogen companies. I have given educational presentations in the past for which I am compensated.

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I have served on advisory boards for clinical trials or provided consultancy for Biogen, Ionis, Lilly and Roche - payments have been to my institution (UCL) rather than to me personally.

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No competing interest with Eisai. I received compensations for consultancies from Biogen - among others.

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Received research support but not direct financial compensation from Eisai.

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OH has acquired research support (for the institution) from ADx, AVID

Radiopharmaceuticals, Biogen, Eli Lilly, Eisai, Fujirebio, GE Healthcare, Pfizer, and Roche. In the past 2 years, he has received consultancy/speaker fees from AC Immune, Amylyx, Alzpath, BioArctic, Biogen, Cerveau, Eisai, Fujirebio, Genentech, Novartis, Novo Nordisk, Roche, and Siemens.

Suzanne B Hendrix, PhD

On Eisai's global advisory committee, advisor to Biogen, Lilly and many other companies in the AD field.

Doris Molina Henry, PhD

Doris Molina Henry has received funding from American Heart Association and Eisai for the AHEAD 3-45 studies (as a public-private partnership). She is an unpaid member of the Alz IRGP Council for the Alzheimer's Association. Dr. Molina Henry was not involved in the CLARITY-AD trial.

Vered Hermush, MD

None

Annie Hiniker, MD, PhD

None

Brandon Blake Holmes, MD, PhD

None

David M. Holtzman, MD
Co-founder, with equity, C2N Diagnostics LLC. Scientific advisory boards/consulting: Genentech, Denali, C2N Diagnostics, Cajal Neurosciences, Alector. DMH is an inventor on a 1) a patent licensed by Washington University to NextCure on anti-apoE antibodies, 2) a patent licensed by Washington University to Eli Lilly on a humanized anti-A β antibody, 3) a patent licensed by Washington University to C2N Diagnostics on a humanized anti-tau antibody.

Lawrence S. Honig, MD, PhD, FAAN
Consultant for Biogen, Cortexyme, Eisai, Genentech, Medscape, Prevail, Roche. Recent research funding from Abbvie, Acumen, Alector, Biogen, Eisai, Genentech, Janssen, Eli Lilly, Roche, UCB, Transposon, Vaccinex.

Khalid Iqbal, PhD
Chief Scientific Officer of Phanes Biotech, which is carrying out drug discovery studies on immunotherapy targeting tau and Abeta pathologies and on neural regeneration that can prevent both tau and Abeta pathologies.

Atsushi Iwata, MD, PhD
I am a member of Eisai Global Advisory board

Takeshi Iwatsubo, MD
Scientific Advisor for Eisai, Biogen and Eli Lilly

William Jagust, MD
Has consulted for Lilly, Eisai, Biogen, and Bioclinica

Gregory A. Jicha
Received compensation from Eisai for contract research activities in the Phase 2 study. CLARITY Phase 3, and the A345 AHEAD study.

Charles Jennings, PhD
Spouse is an employee of Prime Medicine, a biotech company that develops clinical applications of genome editing technologies.

Kimball A. Johnson, MD
Principal Investigator for Eisai Study @ CenExel iResearch Atlanta

Sterling Johnson, PhD
SCJ has served as a consultant to Roche, Eisai and Prothena in the past three years.

Parunyou Julayanont, MD
None

Kejal Kantarci, MD, MS
Receives research support from Avid Radiopharmaceuticals, Eli Lilly and is a paid consultant for Biogen

Anumantha Kanthasamy
Have two startup companies: PK Biosciences, Inc. and Probiome Therapeutics. The work performed in the startup companies is unrelated to this publication.

Jason Karlawish, MD
None

Diana R. Kerwin, MD
I am a site principal investigator for the CLARITY study, blinded to study data.

Vikram Khurana, MD, PhD
None

Hee Jin Kim
None

William E. Klunk, MD, PhD
None

David S. Knopman, MD
I am a site investigator in the EMBARK study (Biogen) and in the A4 (Lilly) but receive no personal compensation. I attended a meeting on Dec 2, 2022 with Eisai regarding lecanemab but received no personal compensation.

Rada Koldamova, MD, PhD
None

Joel Kramer, PsyD
None

Sarah Kremen, MD
Was a site PI for Biogen PRIME and ENGAGE studies and consultant for ICER's review of aducanumab, and has served on an advisory board for Eli Lilly.

Walter A. Kukull, PhD
I have grant support from NIH/NIA.

Robert Laforce, MD, PhD
None

Debomoy K. Lahiri, PhD, FAAAS
Dr. Lahiri acknowledges the support from the NIH, NIA (R01AG051086,

R56AG072810, R21AG076202, R21AG AG074539, P30AG10133, and P01AG014449), and also from Bentham Science Publications (as Editor-in-Chief, Current Alzheimer Research, and Current Aging Science). He has stock options in Annovis Bio, Inc, and serves as Chief Scientific Advisor, Peptide Therapeutics Provaidea, Indianapolis.

Bruce Lamb, PhD

Consultant for NervGen Inc., leader of multiple NIH-funded research programs, volunteer advisor as Chair of the Medical and Scientific Advisory Group (MSAG) of the Alzheimer's Association.

Susan Landau, PhD

I serve on a DSMB for KeifeRX and have received speaking honoraria from Eisai

Serggio Lanata, MD, MS

None

Edward B. Lee, MD, PhD

None

Suzee E. Lee, MD

None

Iliya Lefterov, MD, PhD

None

Cynthia A Lemere, PhD

Cynthia Lemere serves as a paid consultant to AC Immune, Acumen Pharmaceuticals, ADvantage Therapeutics, Apellis Pharmaceuticals, Biogen, Cognition Therapeutics, Cyclo Therapeutics, Novo Nordisk, MEDAcrop, and Cambridge Healthcare Research

Consulting Group. She serve as an unpaid advisor to the Alzheimer's Association, BrightFocus Foundation, Cure Alzheimer's Fund, LuMIND (DSMB), MODEL-AD and the US POINTER Study.

Allan I. Levey, MD, PhD

None

Stefan Lichtenthaler, PhD

None

Spencer W. Liebel, PhD

None

Lei Liu, MD, PhD

None

Peter A. Ljubenkov, MD

None

Justin M. Long, MD, PhD

I have no relevant financial disclosures. I served as sub-investigator for the Clarity AD study at the Washington University site.

Marissa Natelson Love, MD

I have served as a site investigator on the phase 2 trial for lecanemab and currently serve as the site Principal Investigator on a prevention trial involving lecanemab.

Val J. Lowe, MD

Dr. Lowe consults for Bayer Schering Pharma, Piramal Life Sciences, Life Molecular Imaging, Eisai Inc., AVID Radiopharmaceuticals, and Merck Research and receives support from GE Healthcare, Siemens Molecular Imaging, AVID Radiopharmaceuticals and the NIH (NIA, NCI).

Yvonne Lu, PhD, RN, FGSA, FAAN

None

Joseph C. Masdeu, MD, PhD

Investigator in the AHEAD Study

Gad A. Marshall, MD

Co-investigator on Clarity AD trial

Colin L. Masters

None

Eric McDade, DO

Institutional support (clinical trial): Eisai, Eli Lilly, Roche

Amy McLean, DNP

One advisory panel for Genentech

Scott M. McGinnis, MD

Site sub-investigator for CLARITY

Michael B. Miller, MD, PhD

None

David G. Morgan, PhD

Hesperos Inc, Bright Minds Biosciences

John C. Morris, MD

None

Richard G. M. Morris

None

Beth Mormino, PhD

NIH funding for research. Paid consultant to Eli Lilly, Neurotrack, and Hoffmann-La Roche.

Cath Mummery, MD, PhD

Consultant for Biogen, Eisai, IONIS, Roche, Lilly, Alnylam, Alector, WAVE but not directly

involved with the lecanemab trials

Melissa E. Murray, PhD

Dr. Murray served as a paid consultant and receives grant funding from Avid Radiopharmaceuticals.

Salvatore Napoli

None

Peter T. Nelson, MD, PhD

None

Aivi T. Nguyen, MD

None

Adrian L. Oblak, PhD

None

Kenjiro Ono, PhD, MD

None

Rik Ossenkoppele, PhD

None

Emily Paolillo, PhD

None

Mike Pappolla, MD, PhD

None

Victoria S. Pelak, MD

Site Investigator for Biogen EMBARK

Ronald Petersen, PhD, MD

Roche, Merck, Biogen, Eisai, Genentech, Lilly, Nestle, consultant; Genentech DSMB

Peter S. Pressman

None

Gil D. Rabinovici, MD, FAAN, FANA

Dr. Rabinovici receives research support (paid to institution) from Avid

Radiopharmaceuticals, Life Molecular Imaging, GE Healthcare and Genentech. In the past 3 years he has served as a scientific advisor for Eli Lilly, GE Healthcare, Genentech, Roche and Merck. He serves on a DSMB for Johnson & Johnson.

Rema Raman, PhD

Rema Raman has received funding from the National Institutes of Health, Alzheimer's Association, Eli Lilly for the A4 study (as a public-private partnership) and Eisai for the AHEAD 3-45 studies (as a public-private partnership). Dr. Raman was not involved in the CLARITY-AD trial. She is the Board Chair (unpaid) for the Alzheimer's Association's San Diego/Imperial chapter and a member of the Alzheimer's Association's AAIC Scientific Program Committee.

Vijay K Ramanan, MD, PhD

None

Kamalini Ranasinghe

None

Katherine P. Rankin, PhD

None

P. Hemachandra Reddy, PhD

None

R. Ross Reichard

None

Ashley Reiff LCSW

None

Dorene M. Rentz, PsyD

Dr. Rentz has served as a consultant of Biogen, Eisai and Novartis

Robert Rissman, PhD

None

Erik Roberson, MD, PhD

None

Julio C. Rojas, MD, PhD

Julio C. Rojas is a site PI for clinical trials sponsored by Eisai and Eli-Lilly.

Howard Rosen, MD

I have worked as a consultant for Genentech, Wave Neuroscience, Eisai, Otsuka, Takeda, Biogen, and Ionis pharmaceuticals

Owen A. Ross, PhD

None

Christopher C. Rowe, BMBS, MD, FRACP

Research grants to institution received from Biogen, Eisai, Actinogen, Cerveau technologies. Scientific Advisory Board payments received from Prothena, Roche, Eisai Australia, Lilly Australia

Marwan Noel Sabbagh MD, FAAN

None

Carl Sadowsky, MD

None

S Ahmad Sajjadi, MD, PhD

I have served on Eisai advisory committee for Lecanemab

Stephen Salloway, MD, MS

Dr. Salloway was the co-chair of the Investigator Steering Committee for the Aducanumab phase 3 program and he served as a site PI for the aducanumab and lecanemab phase 3 studies,

the donanemab phase 2 trial and he was the Project Arm Leader for gantenerumab in DIAN-TU. He has provided consultation to Biogen, Lilly, Roche, Genentech, Bolden, Amylyx, Prothena and Eisai. He has no stock or royalties related to any medication in development. Dr. Salloway serves on the planning committee for ALZ-NET and he is a member of the ADRD Therapeutics Work Group. He is the first author for the report of ARIA in aducanumab phase 3 (Salloway, JAMA Neurology, 2022), the report of gantenerumab and solanezumab in DIAN-TU (Salloway, Nature Medicine, 2021). He is a co-author on the report of the donanemab phase 2 trial (Mintun, NEJM, 2021) and the Aducanumab Appropriate Use Recommendations (Cummings, Journal of the Prevention of Alzheimer's Disease, 2021, 2022).

Rowan Saloner, PhD

None

Kumar Sambamurti, PhD

None

Andrew J. Saykin, PsyD

Dr. Saykin has received support from Avid Radiopharmaceuticals, a subsidiary of Eli Lilly (in kind contribution of PET tracer precursor); and consulted for Bayer Oncology (Scientific Advisory Board); Eisai (Scientific Advisory Board); Siemens Medical Solutions USA, Inc. (Dementia Advisory Board); NIH NHLBI (MESA Observational Study Monitoring Board); and Springer-Nature

Publishing (Editorial Office Support as Editor-in-Chief, Brain Imaging and Behavior).

Prof. Philip Scheltens, MD, PhD

None

Julie Schneider

Consultant, Lilly and AVID Radiopharmaceuticals, Cerveau Technologies, Inc., National Hockey League, Takeda Development Centers Americas, Inc.

Michael Schöll, PhD

MS has research agreements with Roche and has consulted with Servier, NovoNordisk and Roche.

Professor Jonathan M. Schott, MD FRCP FAAN

I have received research funding and PET tracer from AVID Radiopharmaceuticals (a wholly owned subsidiary of Eli Lilly) and Alliance Medical; have consulted for Roche, Eli Lilly, Biogen, Merck and GE; received royalties from Oxford University Press, and Henry Stewart Talks. I am Chief Medical Officer for Alzheimer's Research UK, and Clinical Advisor to UK Dementia Research Institute.

Julie Schwartzbard

None

Dennis Selkoe, MD

Director and consultant to Prothena Biosciences. Ad hoc consultant to Eisai

Sharon J. Sha, MD, MS

None

Leslie M. Shaw, PhD

None

Eric Siemers, MD

Chief Medical Officer, Acumen Pharmaceuticals; Consultant, Vaccinex Inc.

Bryan Luke Smesler

None

Amanda G. Smith, MD

Our site is a study site for CLARITY AD and we receive research grants from Eisai.

B. Joy Snider, MD, PhD

Site Principal investigator for Eisai sponsored Clarity trial

Peter J. Snyder, PhD

None

Deborah Sokol, PhD, MD, ABCN

None

Weihong Song

None

Michelle Sorweid, DO, MPH

None

Reisa Sperling, MD

Dr. Sperling co-leads the AHEAD Study which is testing lecanemab at an earlier stage of preclinical Alzheimer's disease, and receives research support from Eisai and the NIH for this public-private partnership clinical trial.

Salvatore Spina, MD, PhD

Dr. Spina has received consultations honoraria from Techspert.io, AcScl Health, Precision Xtract, and Putnam.

Adam M. Staffaroni, PhD
Paid consultant to Alector, Eli Lilly/Prevail, Passage Bio, and Takeda

Susan Steen, MD
None

Andrew Stern, MD, PhD
None

David Tanne
None

Carmela Tartaglia
I run clinical trials in AD medications: Biogen, Janssen, Avanex, Roche, Green Valley, Merck, UCB, Novo Nordisk, Passage Bio.

Malu G. Tansey, PhD
MGT is a member of the Medical and Scientific Advisory Group (MSAG) of the Alzheimer's Association

Boon Lead Tee, MD
None

Marilù Gorno Tempini, MD, PhD
None

David B. Teplow, PhD
None

Mahendra Kumar Thakur
None

Paul M. Thompson, PhD
PMT received research grant funding from Biogen, Inc., for research unrelated to this topic.

Lars Olof Tjebberg, PhD
None

Taisuke Tomita, PhD
None

Elena Tsoy, PhD
None

Raymond Scott Turner
Research support to Georgetown University from Lilly, Eisai, Biogen, and Roche/Genentech.

Lawren VandeVrede, MD, PhD
None

Robert Vassar, PhD
I have been an ad hoc consultant for Eisai's BACE inhibitor program.

Prashanthi Vemuri, PhD
Funded by the NIH.

Everard (Jort) Vijverberg, PhD, MD
PI of clinical trials from AC immune, CogRX therapeutics, New Amsterdam Pharma, Janssen, UCB, Roche, GreenValley, Vivoryon, ImmunoBrain, GemVax, Alzheon, DIAN-TU and Alector, and sub-I from trials from Eli Lilly, Cortexyme, Biogen en Fujifilm Toyama.

Consultant for New Amsterdam Pharma, Treeway, ReMynd, Vivoryon, Biogen, Vigil Neuroscience and ImmunoBrain Checkpoint.

Qing Wang, PhD
None

Ruizhi Wang
None

David Weisman
I was site PI on the phase 2b trial of lecanemab. Currently

site PI on AHEAD study with lecanemab.

Meredith Wicklund, MD
None

Michael W. Weiner, MD
Dr. Weiner serves on Editorial Boards for Alzheimer's & Dementia, and the Journal for Prevention of Alzheimer's disease. He has served on Advisory Boards for Acumen Pharmaceutical, Alzheon, Inc., Cerecin, Dolby Family Ventures, Merck Sharp & Dohme Corp. and NervGen. He also serves on the USC ACTC grant which receives funding from Eisai for the AHEAD study.

He has provided consulting to Baird Equity Capital, BioClinica, Cerecin, Inc., Cytox, Dolby Family Ventures, Duke University, Eisai, FUJIFILM-Toyama Chemical (Japan), Garfield Weston, Genentech, Guidepoint Global, Indiana University, Japanese Organization for Medical Device Development, Inc. (JOMDD), Medscape, Nestle/Nestec, NIH, Peerview Internal Medicine, Roche, T3D Therapeutics, University of Southern California (USC), WebMD, and Vida Ventures.

He has acted as a speaker/lecturer to The Buck Institute for Research on Aging; China Association for Alzheimer's Disease (CAAD); Japan Society for Dementia Research; and Korean Dementia Society, and the following entities have provided funding for academic travel; University

of Southern California (USC), NervGen, ASFNR, and the AD/PD and CTAD Congresses.

He holds stock options with Alzheon, Inc., Alzeca, and Anven.

Dr. Weiner received support for his research from the following funding sources:

National Institutes of Health (NIH), Department of Defense (DOD), Patient-Centered Outcomes Research Institute (PCORI), California Department of Public Health (CDPH), University of Michigan, Siemens, Biogen, Hillblom Foundation, Alzheimer's Association, The State of California, Johnson & Johnson, Kevin and Connie Shanahan, GE, VUmc, Australian Catholic University (HBI-BHR), The Stroke Foundation, and the Veterans Administration.

Alexander White, MD
I am conducting BAN2401 301.

Donna M Wilcock, PhD
None

Charles Windon, MD
Funding from NIH, Alzheimer's Association, LCN consulting

David A. Wolk, MD
I have received consulting fees from Eli Lilly, Qynapse, and GE Healthcare. I am site-PI of a study with Biogen (EMBARK) and have served on the DSMB for Functional Modulation.

Benjamin Wolozin, MD, PhD
I declare a conflict of interest because I am CSO and Co-Founder of Aquinnah Pharmaceuticals Inc.

Bryan Woodruff, MD
I have participated in industry-sponsored trials of investigational treatments for Alzheimer's disease, but not specifically studies of lecanemab.

Pauline Wu, DO
None

Heather Wynne-Phillips, MSN, APRN, FNP-C
Our institution is a study site for CLARITY AD and we receive research grants from Eisai.

Hyun-Sik Yang, MD
None

Keir Yong, PhD
None

Tracy Young-Pearse
None

Ehud Zeltzer, MD
None

Henrik Zetterberg, MD, PhD
HZ has served on scientific advisory boards and/or as a consultant for Abbvie, Acumen, Alector, ALZPath, Annexon, Apellis, Artery Therapeutics, AZTherapies, CogRx, Denali, Eisai, Nervgen, Novo Nordisk, Passage Bio, Pinteon Therapeutics, Red Abbey Labs, reMYND, Roche, Samumed, Siemens Healthineers, Triplet Therapeutics, and Wave, has given lectures in symposia sponsored by Cellectricon,

Fujirebio, Alzecure, Biogen, and Roche, and is a co-founder of Brain Biomarker Solutions in Gothenburg AB (BBS), which is a part of the GU Ventures Incubator Program.

Samuel N. Lockhart, PhD
I serve on a DSMB for the WALLe study
(Added Dec. 19, 2022)

Oscar L. Lopez, MD, FAAN
I have been a consultant for Eisai
(Added Dec. 19, 2022)

David Sultzer, MD
Dr. Sultzer leads the Clinical Core of the Alzheimer's Disease Research Center at UC Irvine. He is the site Principal Investigator for the AHEAD clinical trial which includes lecanemab treatment. He is a member of the Steering Committee for the Alzheimer's Clinical Trial Consortium and a member of the Independent Data Monitoring Committee for an Alzheimer's disease clinical trial sponsored by Janssen.
(Added December 21, 2022)

Christopher H. van Dyck, MD
Dr. van Dyck serves as a scientific advisor for Eisai, Roche, Ono, and Cerevel and receives grant support for clinical trials from Biogen, Biohaven, Cerevel, Eisai, Eli Lilly, Genentech, Janssen, Roche, and UCB.
(Added December 24, 2022)

Lennart Mucke, MD
Advisory Board Member, Acumen Pharmaceuticals
(Added December 27, 2022)