

Study 301: The Confirmatory Study to Verify and Describe the Clinical Benefit of Lecanemab for the Treatment of Early AD

**Peripheral and Central Nervous System Drugs
Advisory Committee Meeting**

Eisai Inc.

June 9, 2023

Introduction



Lynn Kramer, MD, FAAN

Chief Clinical Officer

Alzheimer's Disease and Brain Health

Eisai Inc.

Confirmatory Study 301 Fulfills Accelerated Approval Requirement

Accelerated Approval

Study 201 (Phase 2b)

Global, randomized,
placebo controlled
study in patients
with MCI Due to AD or
Mild AD Dementia

Lecanemab vs Placebo

N = 856

Confirmatory Study

Study 301 (Phase 3)

Global, randomized,
placebo controlled
study in patients
with MCI Due to AD or
Mild AD Dementia

Lecanemab vs Placebo

N = 1795

Lecanemab: Confirmatory Study 301 Demonstrated Consistent, Persistent, Slowing of Disease Progression in Patients With Early AD

Selectively targets amyloid beta (A β) protofibrils

Highly statistically significant and clinically meaningful slowing in multiple measures of clinical decline, and effects on biomarkers consistent with slowing of disease progression

Well-tolerated with well-characterized safety, supporting a positive benefit-risk profile

Conducted in patients with broad range of comorbidities and concomitant medications from a diverse racial and ethnic background, clinical trial practice settings generalizable to US population

Introduction

Lynn Kramer, MD, FAAN

Chief Clinical Officer

Alzheimer's Disease and Brain Health / Eisai Inc.

Study 301 Efficacy

Michael Irizarry, MD, MPH

SVP, Deputy Chief Clinical Officer

Alzheimer's Disease and Brain Health / Eisai Inc.

Robustness of Efficacy Results

Shobha Dhadda, PhD

SVP, Global Head, Biostatistics and Clinical Dev Operations

Alzheimer's Disease and Brain Health / Eisai Inc.

Study 301 Safety

Michael Irizarry, MD, MPH

Clinician's Perspective

Sharon Cohen, MD, FRCPC

Medical Director and Site Principal Investigator

Toronto Memory Program

Conclusion

Lynn Kramer, MD, FAAN

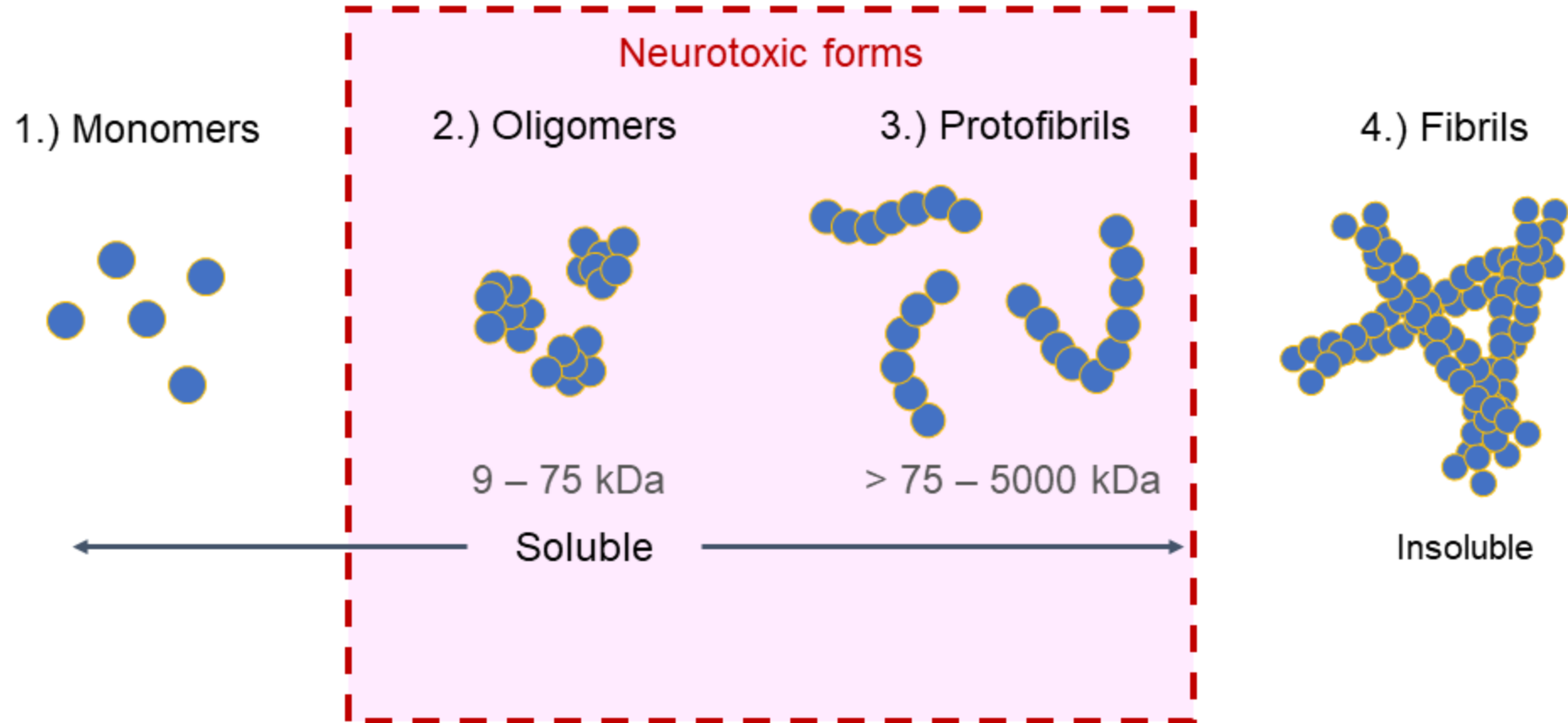
Alzheimer's Disease: Complex Clinical and Biological Continuum Beginning 10-20 Years Before Symptoms

- 6-7 million (~1 in 9) Americans aged 65 and older suffer from AD
 - 6th leading cause of death in US
- Amyloid accumulation is earliest detectable event, followed by tau hyperphosphorylation
 - Synaptic and neuronal loss
- Cognition, daily function, neuropsychiatric symptoms increase as disease progresses
 - Severe impact on patients, families, and healthcare systems

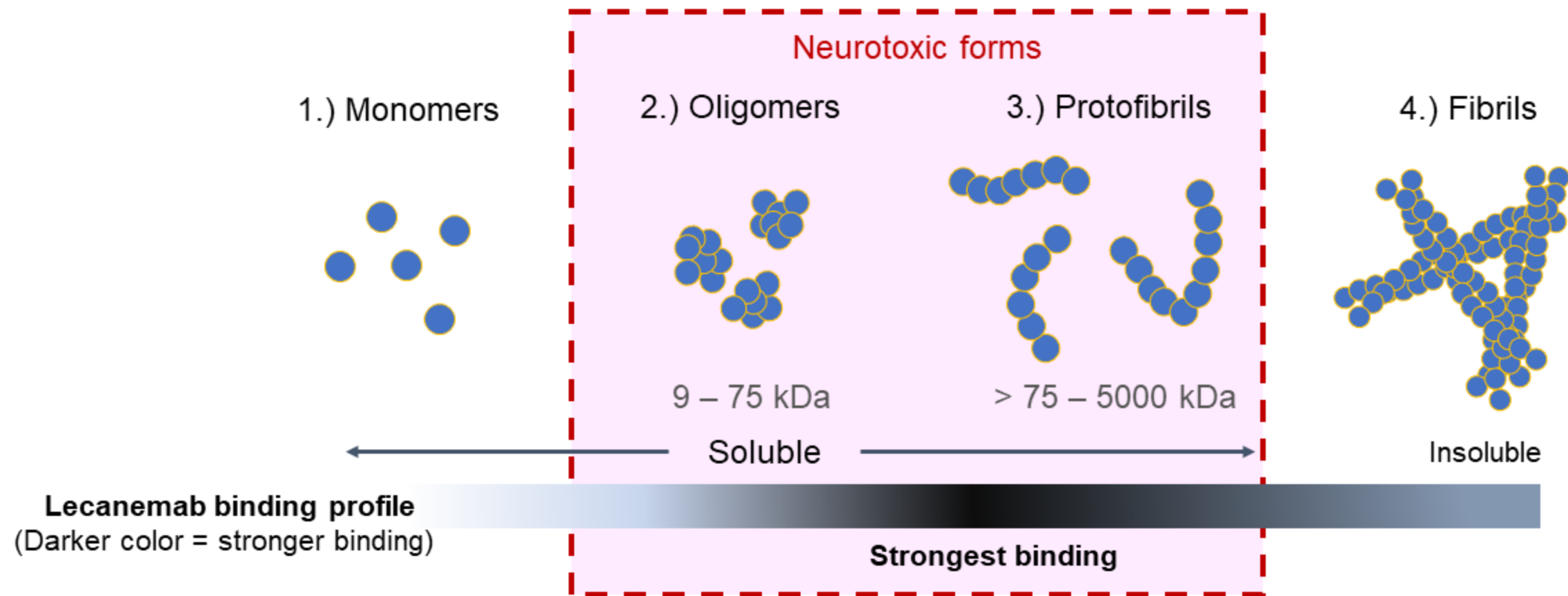
No Treatments That Slow Disease Progression With Broad Access

- Established treatments are insufficient
 - Currently established therapies treat symptoms, not pathophysiology or disease progression
 - Cholinesterase inhibitors; glutamate modulator
 - Provide modest, temporary benefit to symptoms
- No treatments approved for pre-dementia (MCI) stage of AD

A β Pathway: A β Dynamically Evolves Through Different Conformational States



Lecanemab: Unique Selectivity Towards Toxic Soluble Species of A β



- **Lecanemab:** Humanized immunoglobulin G1 (IgG1) monoclonal antibody
 - Selectively targets neurotoxic forms of soluble A β oligomers and protofibrils

Lecanemab Regulatory History

2009**Clinical Development Program Initiated****2021****Breakthrough Therapy and Fast Track Designations****2021****Rolling BLA Submission Under Accelerated Approval Pathway Based on Study 201****2021****Agreement that Study 301 Would Provide Confirmatory Evidence for Accelerated Approval Requirement****January
2023****Accelerated Approval for Treatment of Alzheimer's Disease with Confirmatory Study Requirement****sBLA Submission Containing Results of Study 301**

Study 301 Efficacy



Michael Irizarry, MD, MPH

Senior Vice President
Deputy Chief Clinical Officer
Alzheimer's Disease and Brain Health
Eisai Inc.

Study 301: Confirmatory Study Design

Randomization Phase (Double-Blind) 18 Months

Extension Phase (Open Label [OLE]) Ongoing \leq 4 years

MCI Due to AD or Mild AD Dementia

- Confirmed amyloid pathology
- NIA-AA criteria (CDR 0.5-1)
- Memory impairment (WMS-IV LMSII \geq 1 SD below age-adjusted mean)

Randomization

Lecanemab
10 mg/kg Biweekly
N = 898

Placebo
Biweekly
N = 897

Lecanemab
10 mg/kg Biweekly
N = 1385

Stratification

- Symptomatic AD medication (Yes / No)
- AD Stage (MCI / Mild Dementia)
- APOE4 status (Carrier / Noncarrier)
- Region

Study 301: Statistical Testing Hierarchy (Change from Baseline at 18 Months)

Primary Endpoint (Primary and Key Secondary Endpoints Hierarchically Tested)

Clinical Dementia Rating – Sum of Boxes (CDR-SB)

Key Secondary Endpoints

1. Amyloid PET Centiloids
2. AD Assessment Scale – Cognitive subscale with 14 tasks (ADAS-Cog14)
3. AD Composite Score (ADCOMS)
4. AD Cooperative Study-Activities of Daily Living Scale for Mild Cognitive Impairment (ADCS MCI-ADL)

Prespecified Patient Reported Outcomes (PROs)

- European QOL-5 Dimensions (EQ-5D-5L)
- Quality of Life in AD (QOL-AD) – Patient Assessment
- Zarit Burden Interview (ZBI) – Care Partner

Validated and Well Accepted Clinical Endpoints Measure Global Change in Cognition and/or Function CO-14

Endpoint (Change from Baseline)	Source	# Domains or Items	Assessment	Score Range	Worsening Score
CDR-SB	Patient and care partner	6 domains	Cognitive and functional	0-18	Higher
ADAS-Cog14	Patient	14 items	Cognitive	0-90	Higher
ADCS MCI-ADL	Care partner	24 items	Daily activities	0-53	Lower
ADCOMS	Composite of CDR-SB, ADAS-Cog14 and MMSE	12 items	Cognitive and functional	0-1.97	Higher

Endpoints validated across languages

Study 301: Patient Disposition

Randomized and Treated
N = 1795

Placebo N = 897

Discontinued from Study	16%
Adverse event	3%
Patient choice	3%
Lost to follow-up	0.6%
Withdrawal of consent	7%
Other	2%

Completed Double-Blind Study 84%

Lecanemab N = 898

Discontinued from Study	19%
Adverse event	6%
Patient choice	3%
Lost to follow-up	0.4%
Withdrawal of consent	8%
Other	2%

Completed Double-Blind Study 81%

Study 301: Baseline Characteristics Similar Across Groups

Characteristic	Placebo N = 875	Lecanemab N = 859
Age, years, mean (SD)	71.0 (7.8)	71.4 (7.9)
Female	53%	52%
CDR Global = 0.5	81%	81%
MMSE, mean (SD)	25.6 (2.2)	25.5 (2.2)
AD Stage		
MCI	62%	61%
Mild Dementia	38%	39%
APOE4 Status		
Noncarrier	31%	31%
Carrier	69%	69%
Heterozygous	53%	53%
Homozygous	15%	16%
Symptomatic AD Medication (AChEIs and/or memantine)	53%	52%

Values rounded; SD = standard deviation

Study 301: Diverse Baseline Characteristics

Characteristic	Combined Total (PBO+LEC) N = 1795	United States N = 947
Race		
Asian	17%	< 1%
Black	3%	5%
Caucasian	77%	95%
Other	4%	< 1%
Ethnicity		
Hispanic or Latino	13%	22%
Comorbidities		
Hypertension	55%	65%
Hyperlipidemia	60%	71%
Ischemic Heart Disease	16%	20%
Diabetes	15%	19%
Obesity	17%	24%
≥ 2 Comorbidities Listed Above	51%	64%
Concomitant medications		
Anticoagulants	5%	6%
Antiplatelet Therapy	27%	33%
Antidepressants	29%	30%

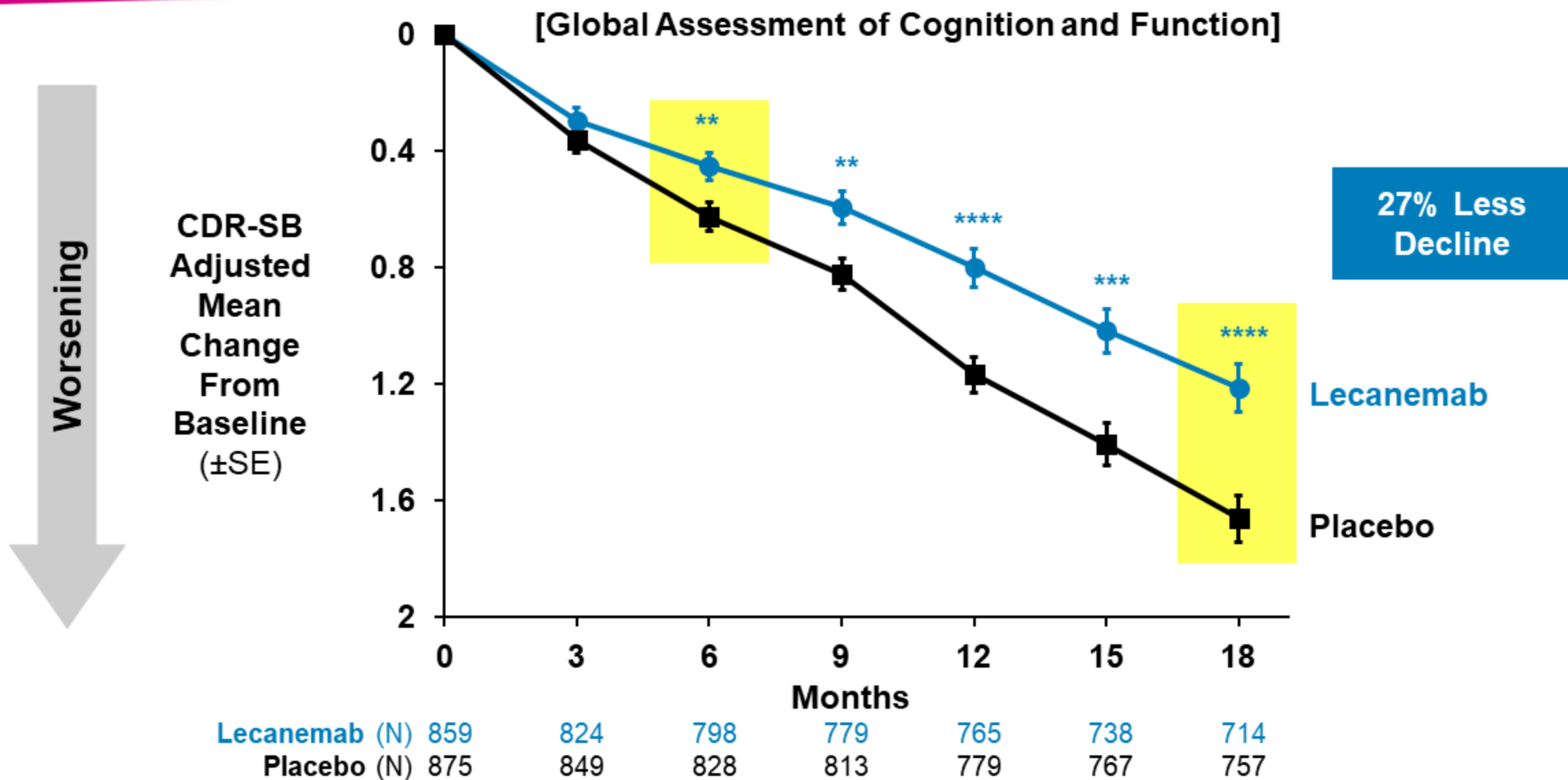
Study 301: Well-Balanced Baseline Clinical Characteristics

Endpoints	Placebo N = 875	Lecanemab N = 859
CDR-SB, mean (SD) [Scale range: 0 (best) - 18 (worst)]	3.22 (1.343)	3.17 (1.340)
Amyloid PET Centiloids, mean (SD)	75.03 (41.82)	77.92 (44.84)
ADAS-Cog14, mean (SD) [Scale range: 0 (best) - 90 (worst)]	24.37 (7.561)	24.45 (7.082)
ADCOMS, mean (SD) [Scale range: 0 (best) – 1.97 (worst)]	0.400 (0.15)	0.398 (0.15)
ADCS MCI-ADL, mean (SD) [Scale range: 0 (worst) – 53 (best)]	40.9 (6.89)	41.2 (6.61)

Study 301: Highly Statistically Significant Results for Primary and Key Secondary Endpoints

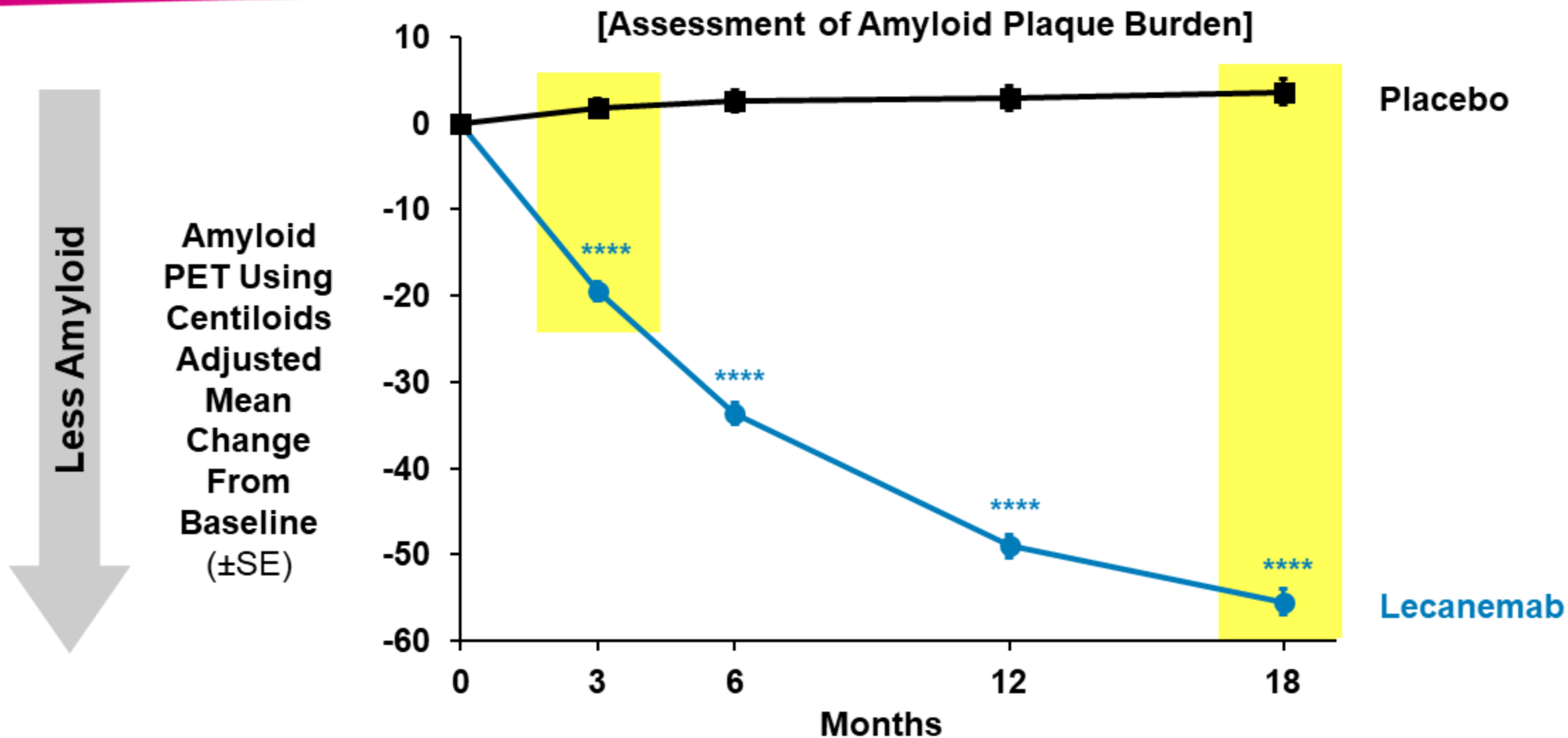
Endpoint	Measure, change from baseline at 18 months	Lecanemab vs Placebo mITT FAS+
Primary Efficacy	CDR-SB	
	Difference in Adjusted Mean (95% CI)	-0.451 (-0.669, -0.233)
	p-value vs placebo	0.00005
Key Secondary Efficacy	Amyloid PET Centiloids	
	Difference in Adjusted Mean (95% CI)	-59.12 (-62.64, -55.60)
	p-value vs placebo	< 0.00001
	ADAS-Cog14	
	Difference in Adjusted Mean (95% CI)	-1.442 (-2.270, -0.613)
	p-value vs placebo	0.00065
	ADCOMS	
	Difference in Adjusted Mean (95% CI)	-0.050 (-0.074, -0.027)
	p-value vs placebo	0.00002
ADCS MCI-ADL		
Difference in Adjusted Mean (95% CI)	2.016 (1.208, 2.823)	
p-value vs placebo	< 0.00001	

Study 301 Primary Endpoint: Lecanemab Significantly Slowed Disease Progression by 27% on CDR-SB at 18 Months



p < 0.01; *p < 0.001; ****p < 0.0001; SE = standard error

Study 301: Treatment with Lecanemab Significantly Reduced Amyloid at All Time Points 3 Months and Beyond

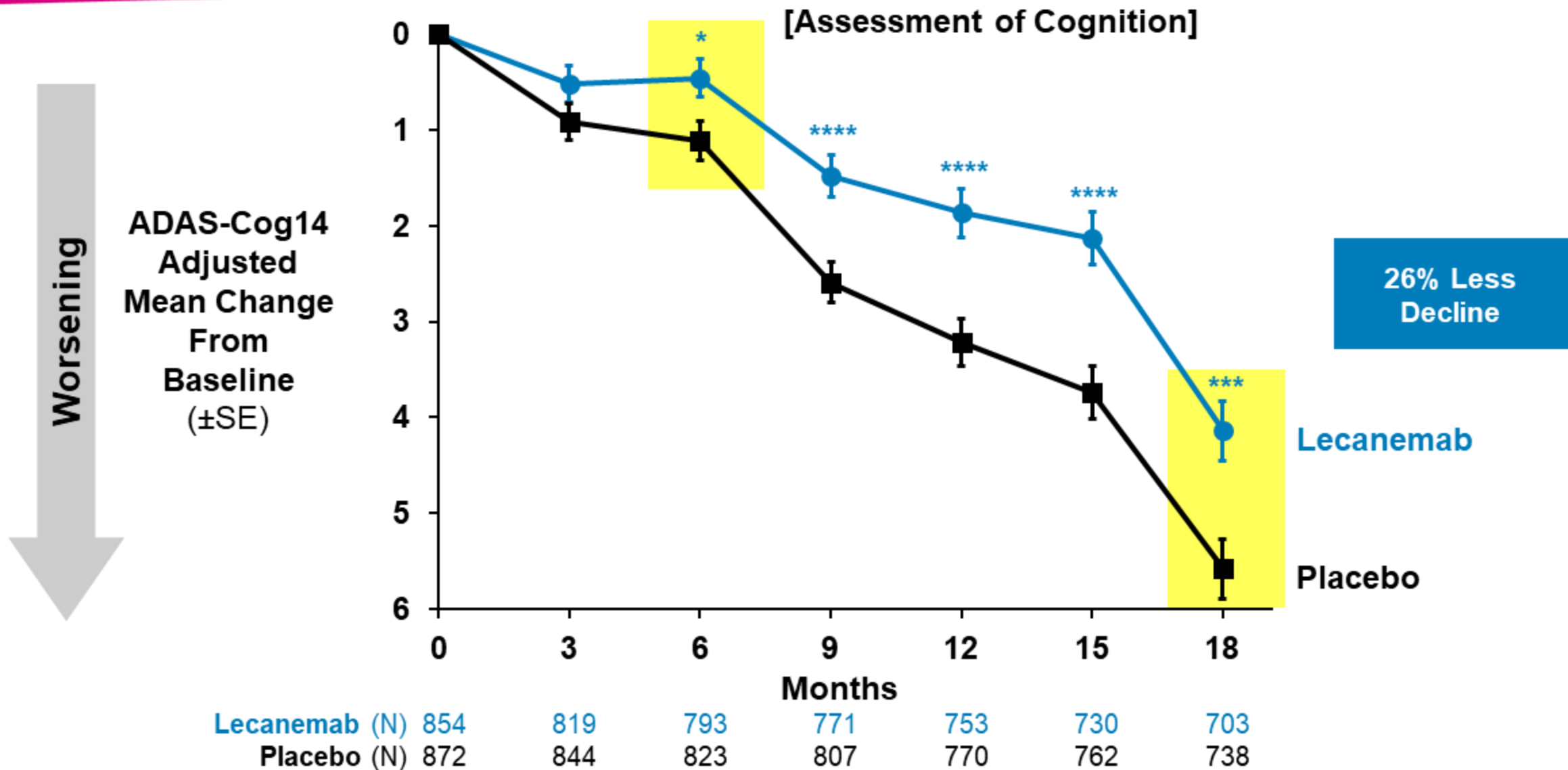


	0	3	6	12	18
Lecanemab (N)	354	296	275	276	210 **
Placebo (N)	344	303	286	259	205 **

****p < 0.0001

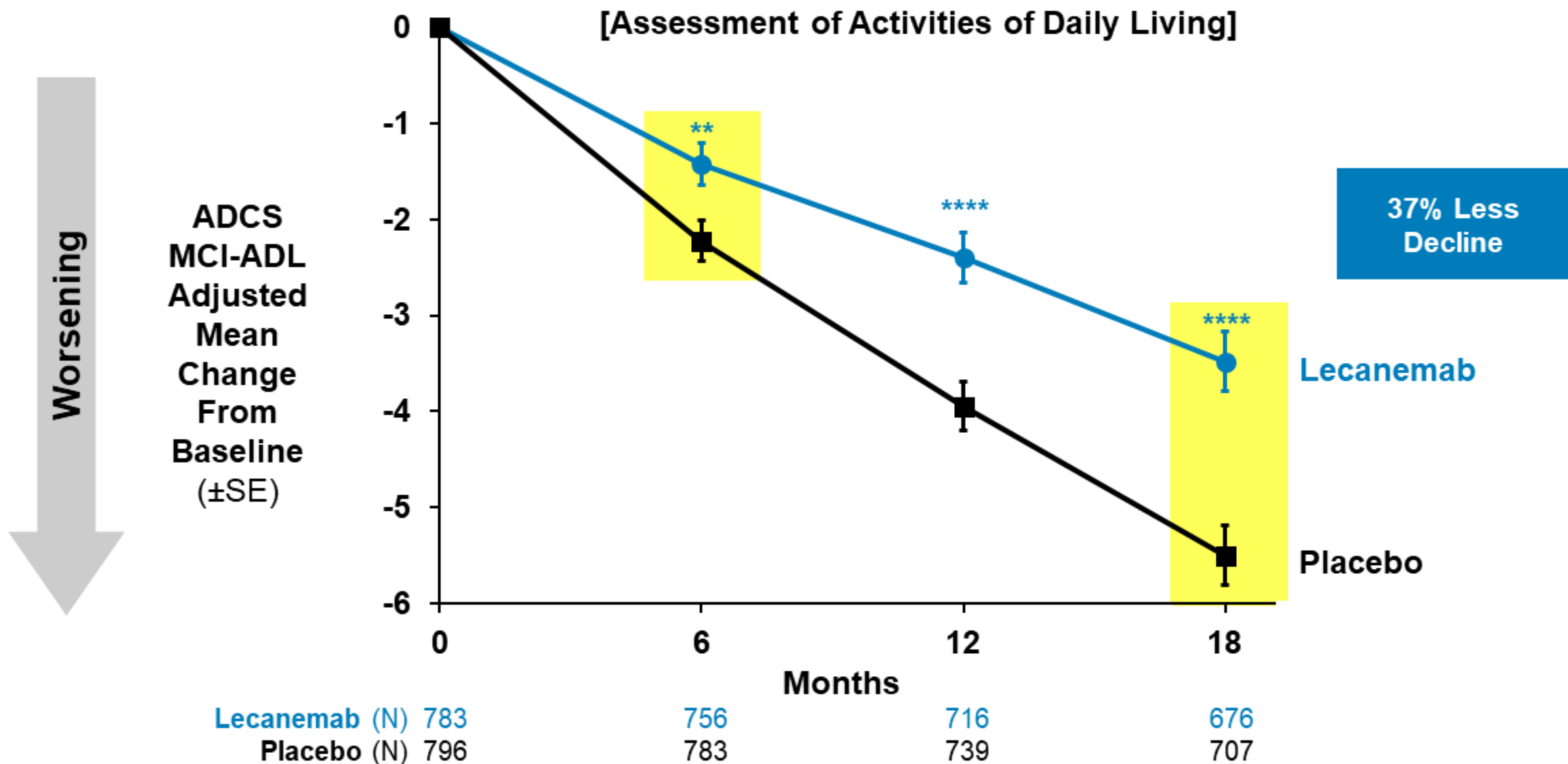
**73 patients not included at 18 months (per Statistical Analysis Plan) since PET assessments were performed after receiving lecanemab in open-label extension

Study 301: Lecanemab Significantly Slowed Disease Progression by 26% on ADAS-Cog14 at 18 Months



*p < 0.05; ***p < 0.001; ****p < 0.0001

Study 301: Lecanemab Significantly Slowed Disease Progression by 37% on ADCS MCI-ADL at 18 Months



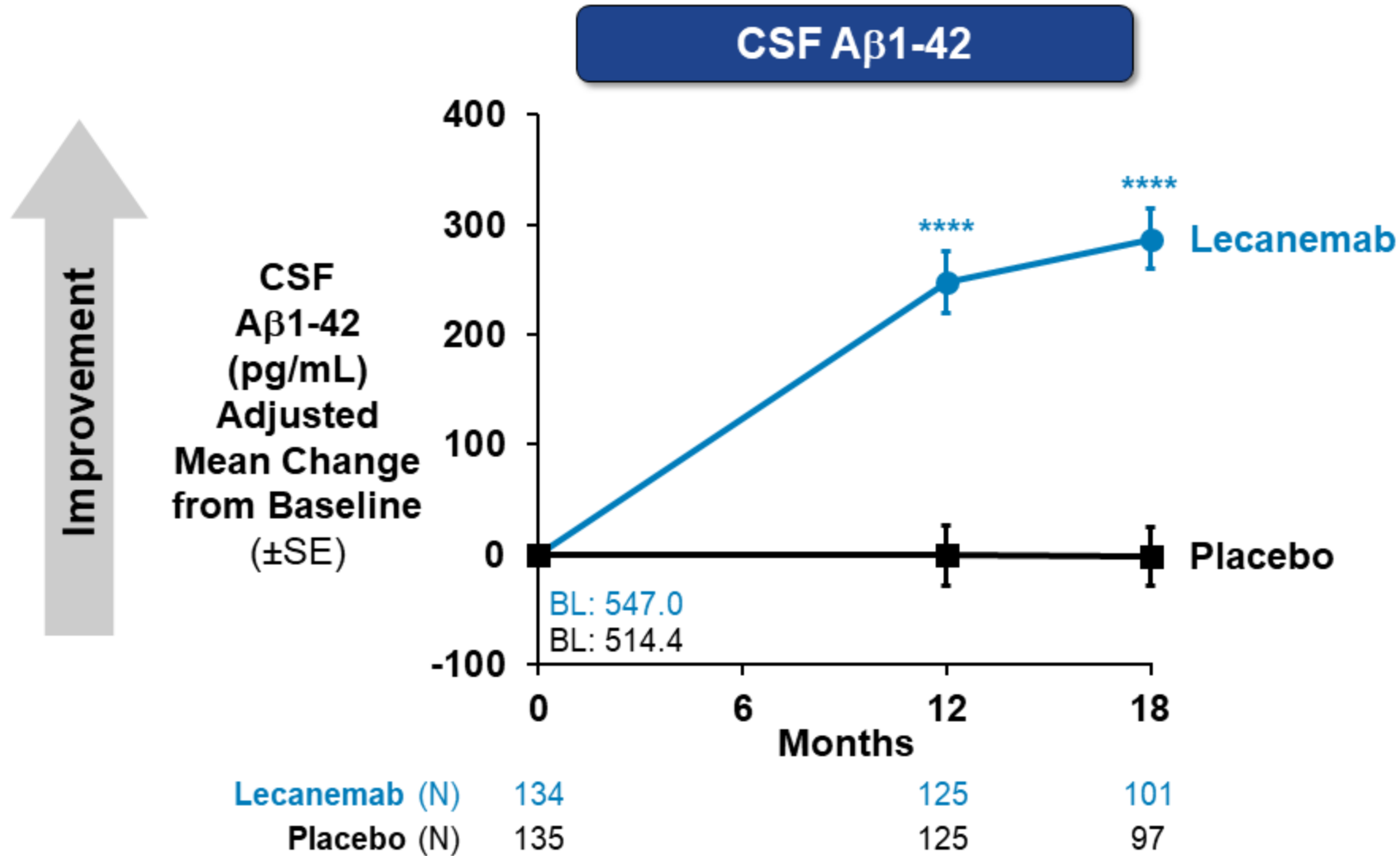
p < 0.01; **p < 0.0001

Biomarker Results Align with Clinical Outcomes That Support Slowing of Disease Progression

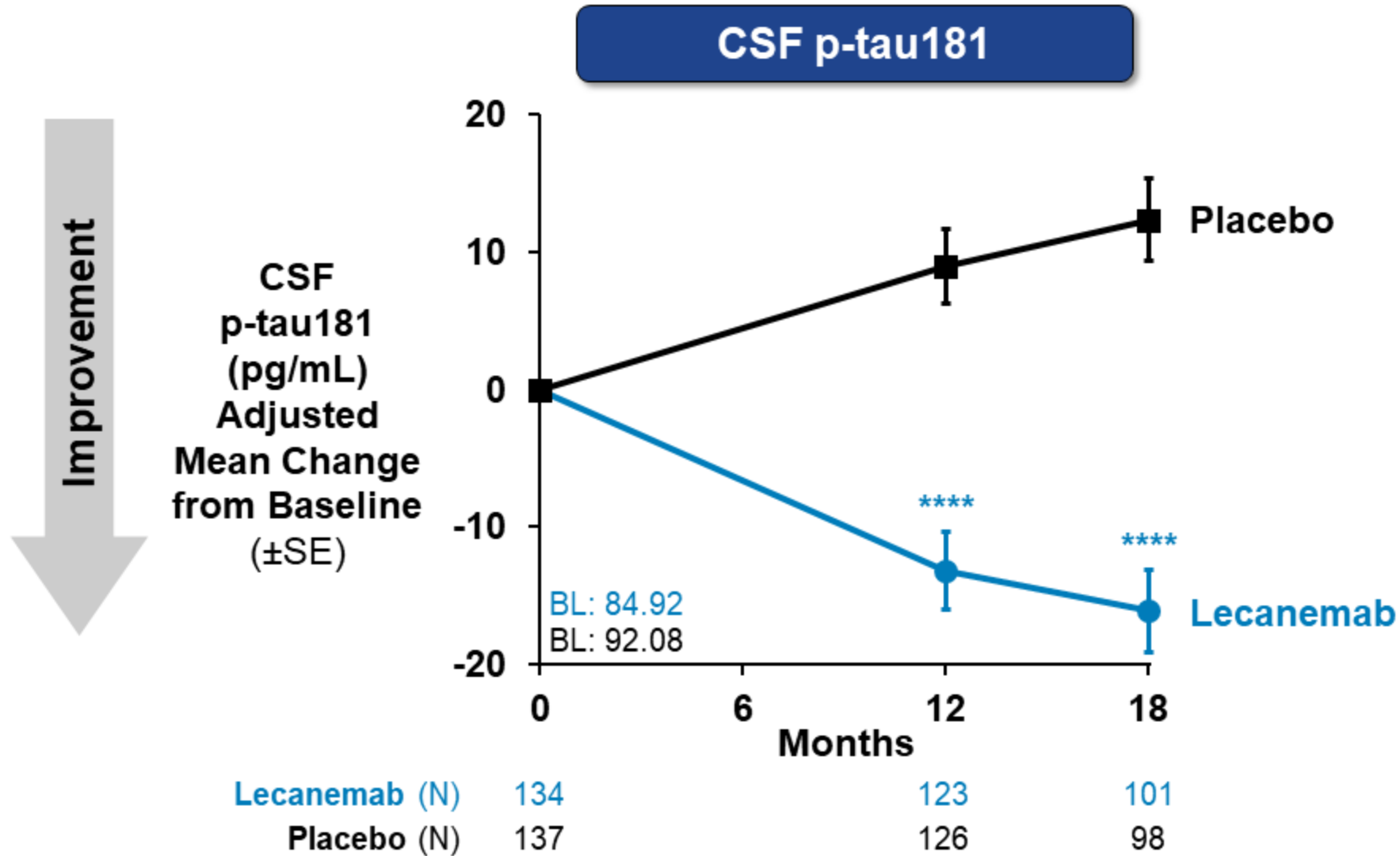
Biomarkers*

- Amyloid
- Tau
- Neurodegeneration/gliosis

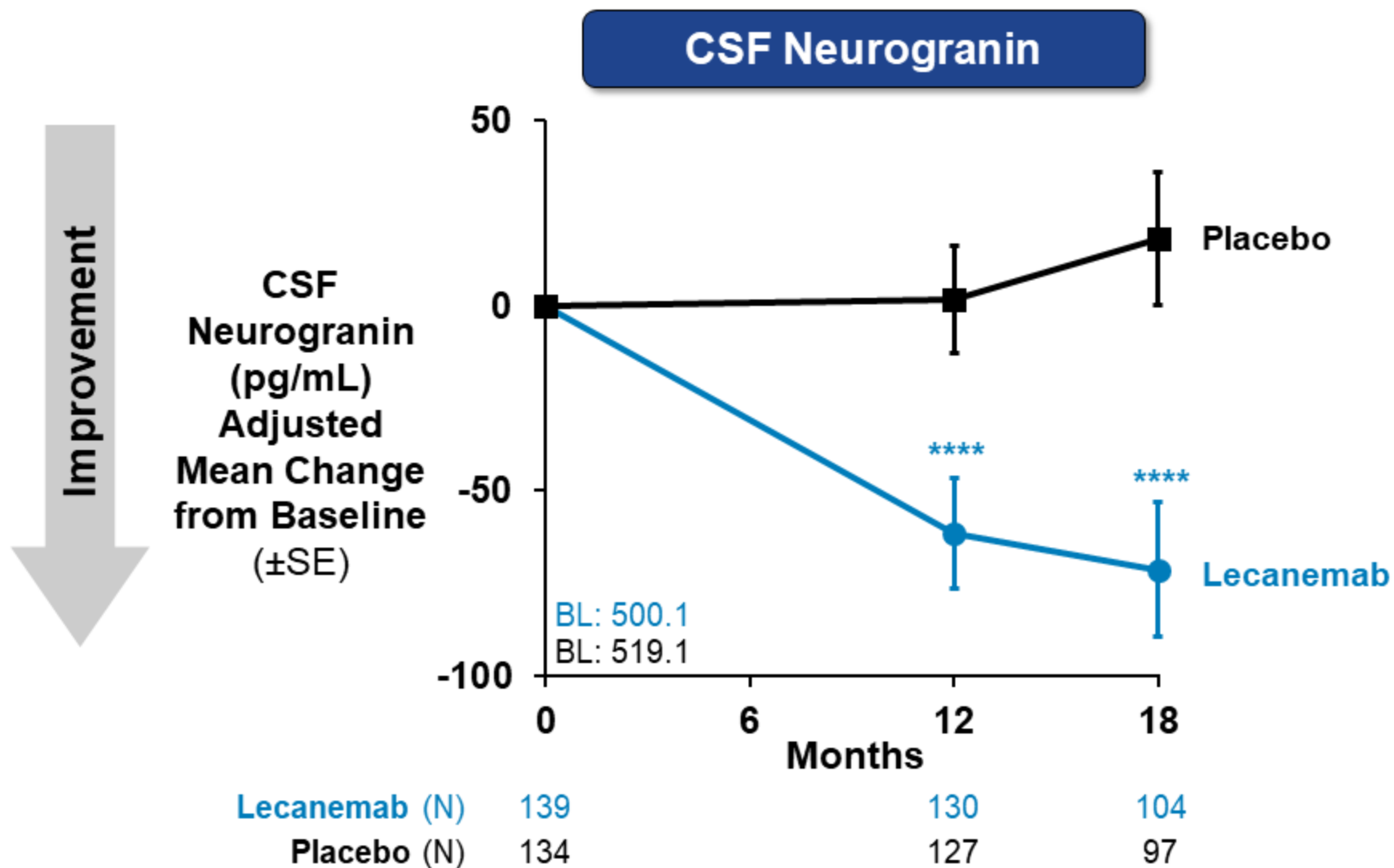
Study 301: Amyloid Biomarker Results Consistent With Effect on Underlying Disease Biology



Study 301: Tau Biomarker Results Consistent With Effect on Underlying Disease Biology



Study 301: Neurodegeneration/Gliosis Biomarker Results Consistent With Effect on Underlying Disease Biology



Robustness of Efficacy Results



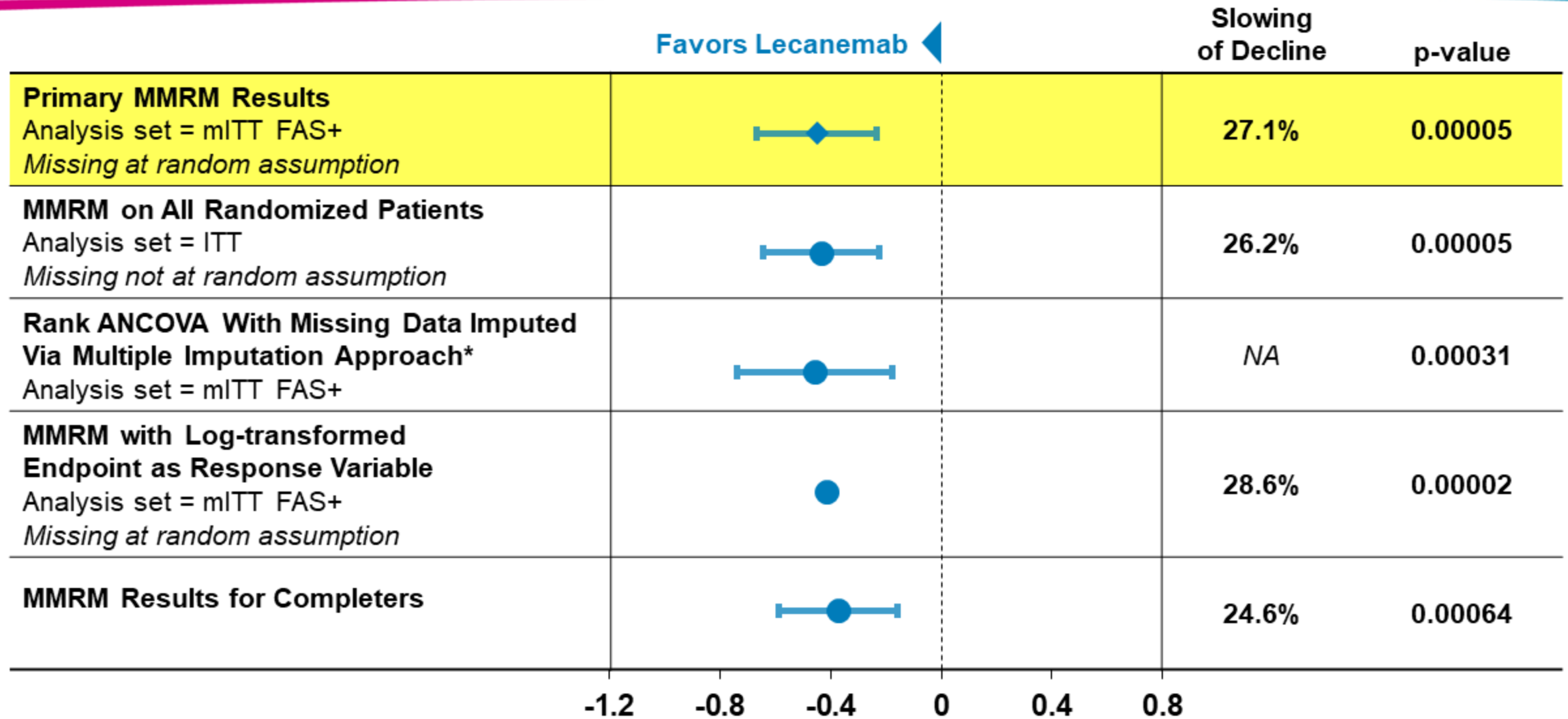
Shobha Dhadda, PhD

Senior Vice President
Global Head, Biostatistics and Clinical
Development Operations
Alzheimer's Disease and Brain Health
Eisai Inc.

All Analyses Consistently Show Highly Statistically Significant Results

- Robustness demonstrated using:
 - Sensitivity analyses using various statistical methods to assess impact of different assumptions on missing data
 - Analyses to assess impact of intercurrent events (discontinuations, use of symptomatic AD medications)
 - Analyses to assess impact of Amyloid-Related Imaging Abnormalities (ARIA) and infusion-related reaction
 - Subgroup analyses by randomization strata

Study 301: Sensitivity Analyses Confirm Robustness of CDR-SB Primary Endpoint via Different Statistical Methods



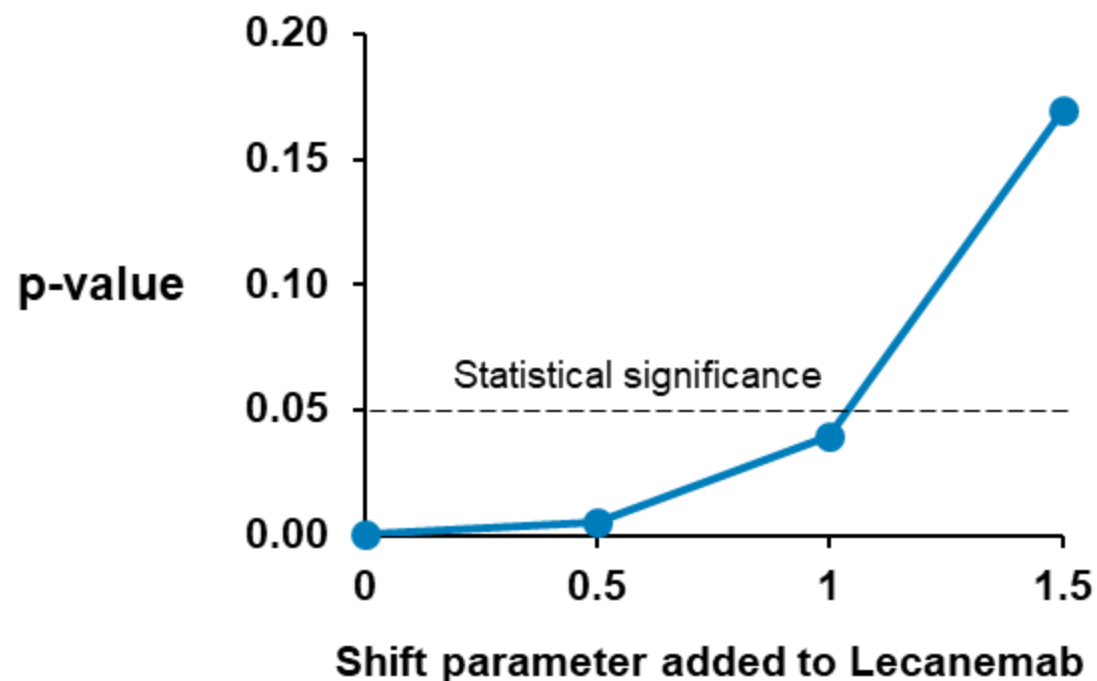
*Hodges-Lehmann non-parametric estimate of median difference
MMRM = mixed model for repeated measures

Adjusted Mean Difference (95% CI)

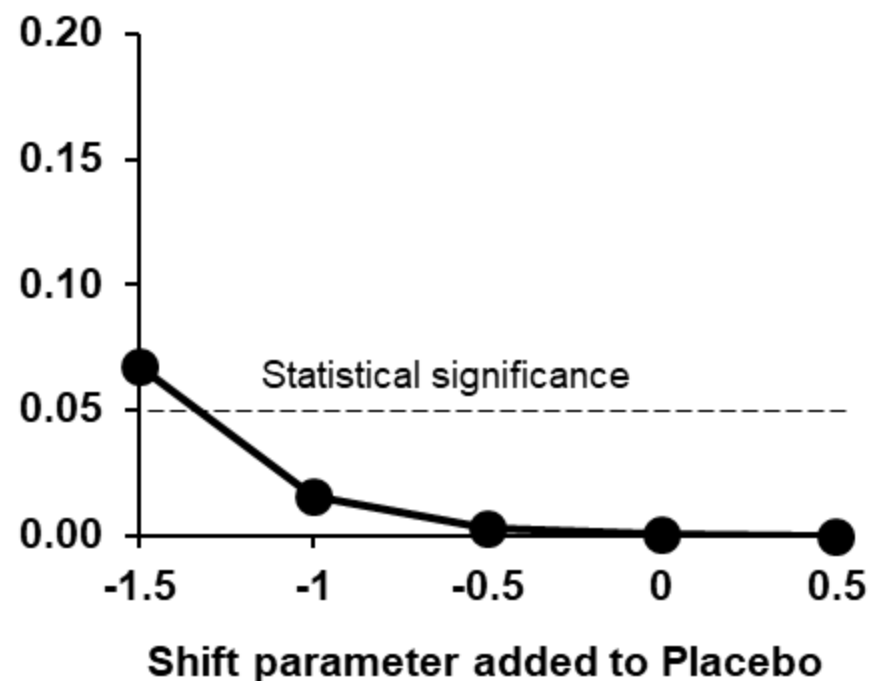
Study 301: Pre-specified CDR-SB Tipping Point Analysis

Strongly Reinforces Primary Analysis Results

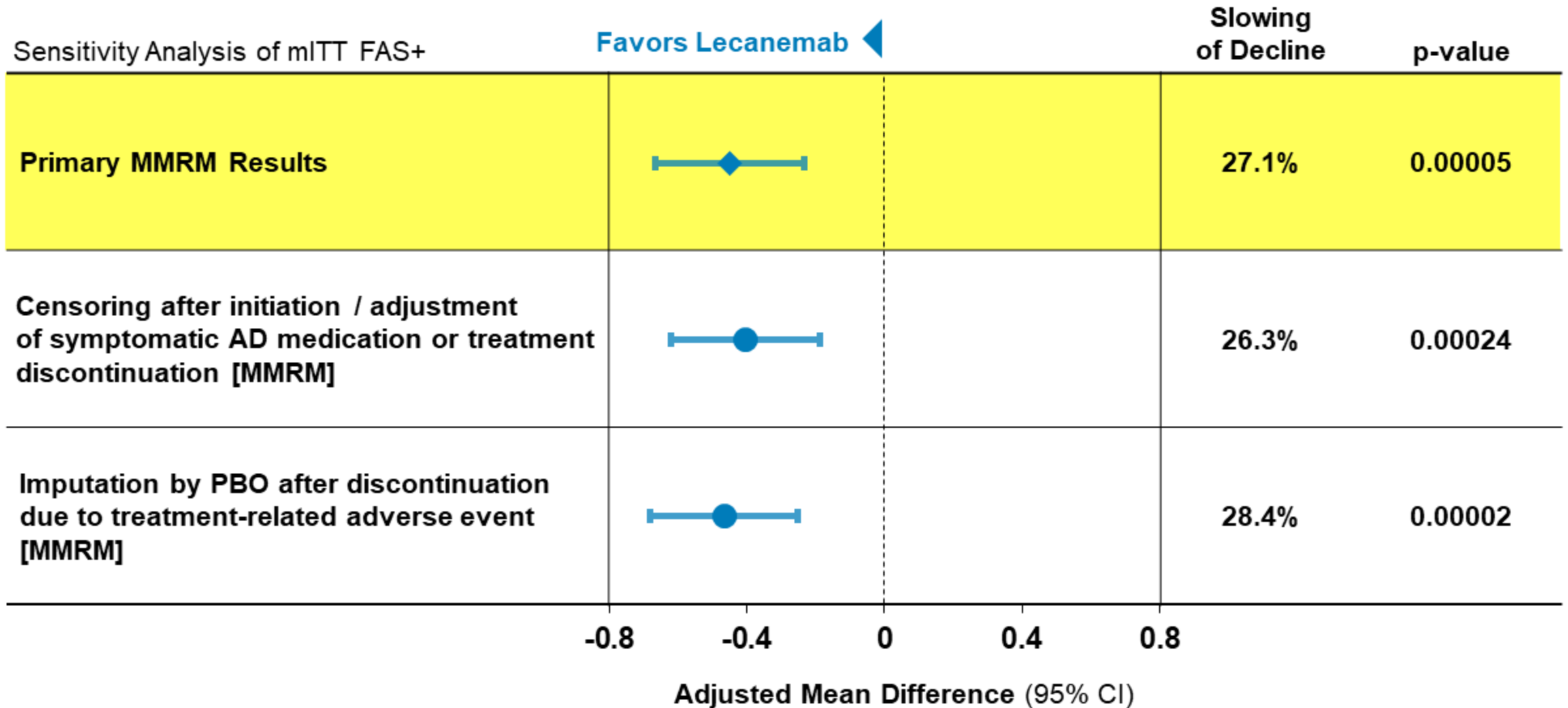
Decline on lecanemab dropouts would need to accelerate from 1.21 to 2.71 (Disease progression faster than placebo, 1.66)



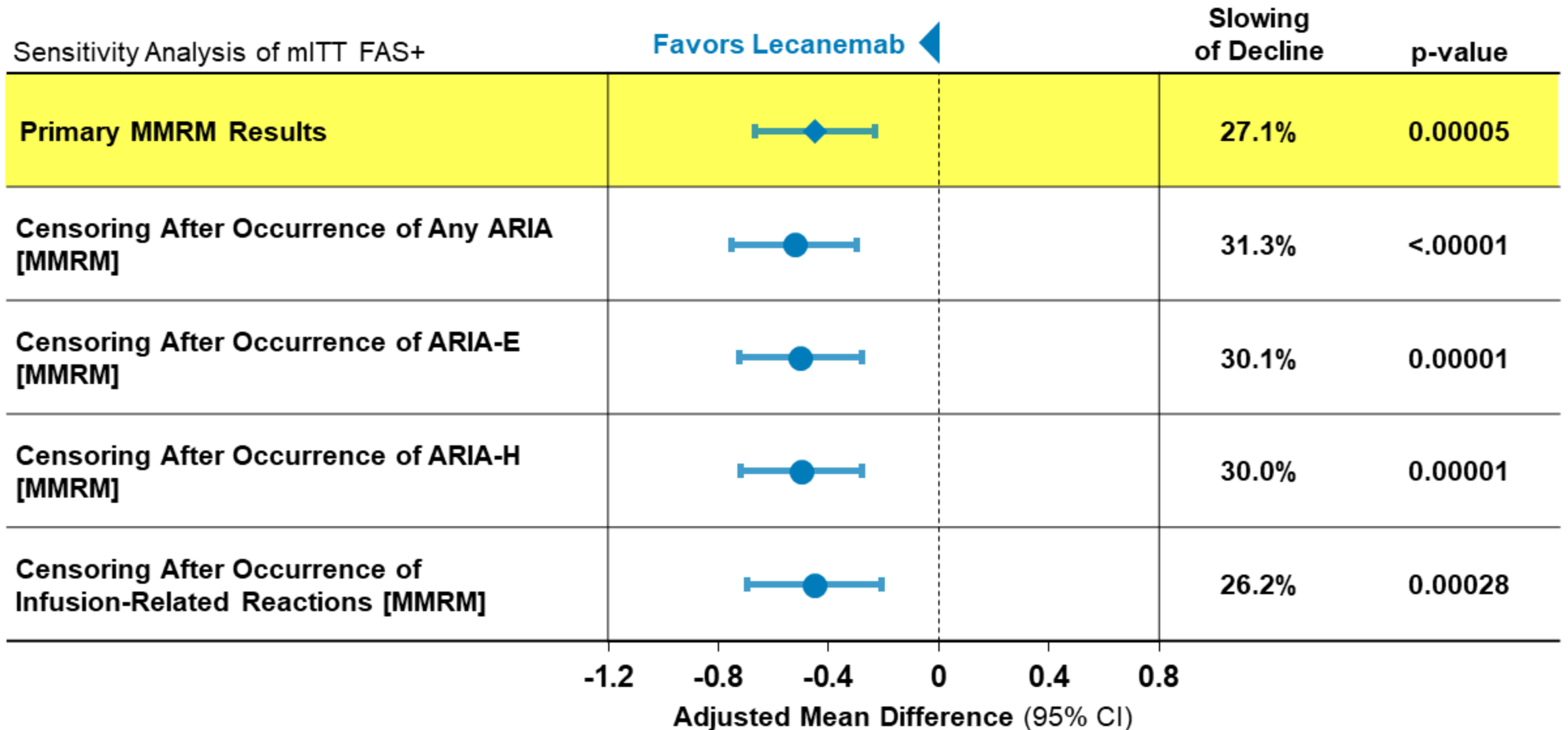
Decline on placebo dropouts would need to slow from 1.66 to 0.16 (No disease progression)



Study 301: Analyses of Intercurrent Events Confirm Robustness of CDR-SB Primary Endpoint



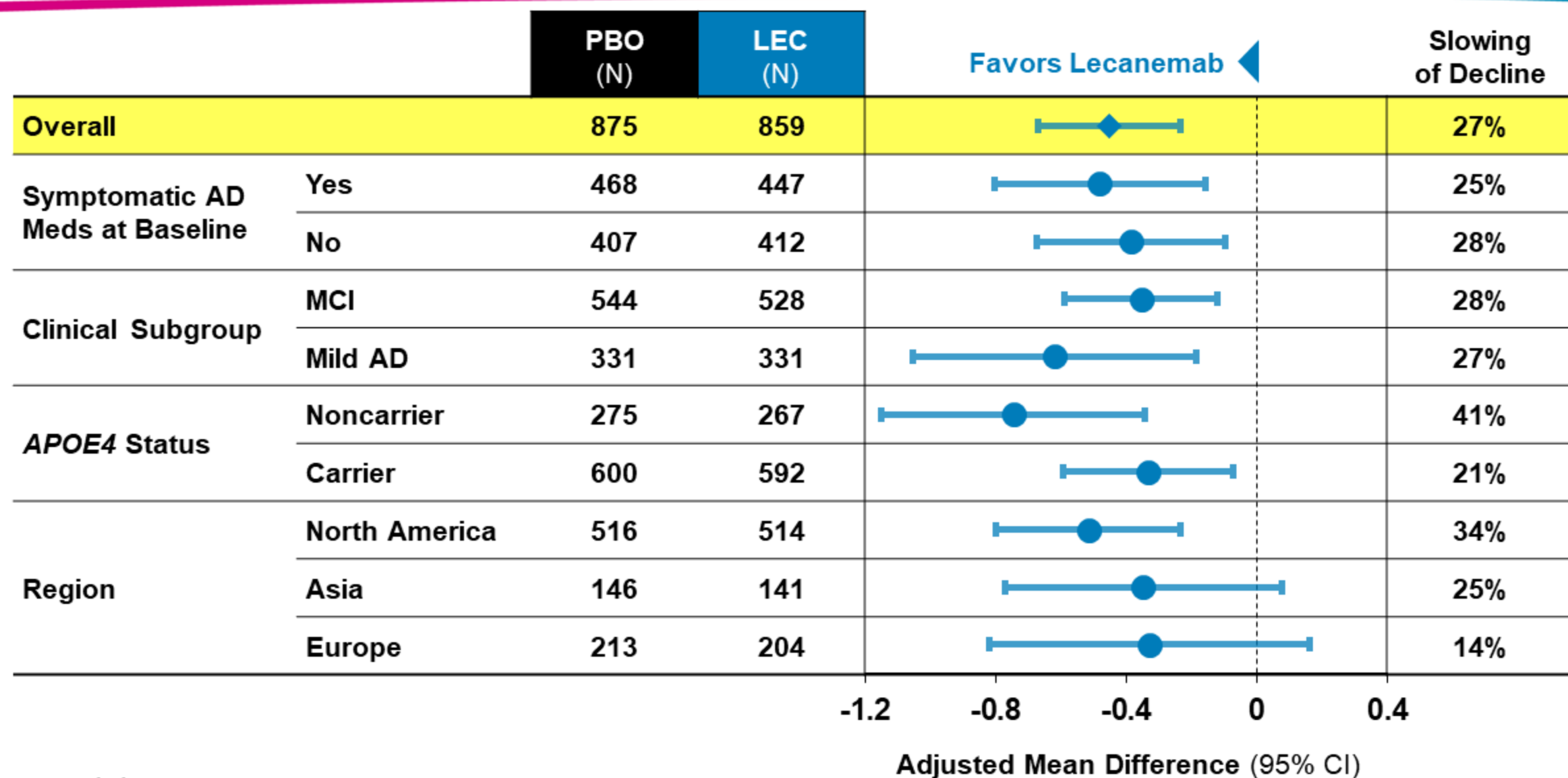
Study 301: Analyses for Potential Unblinding by ARIA or Infusion-Related Reactions Support Robust Effect



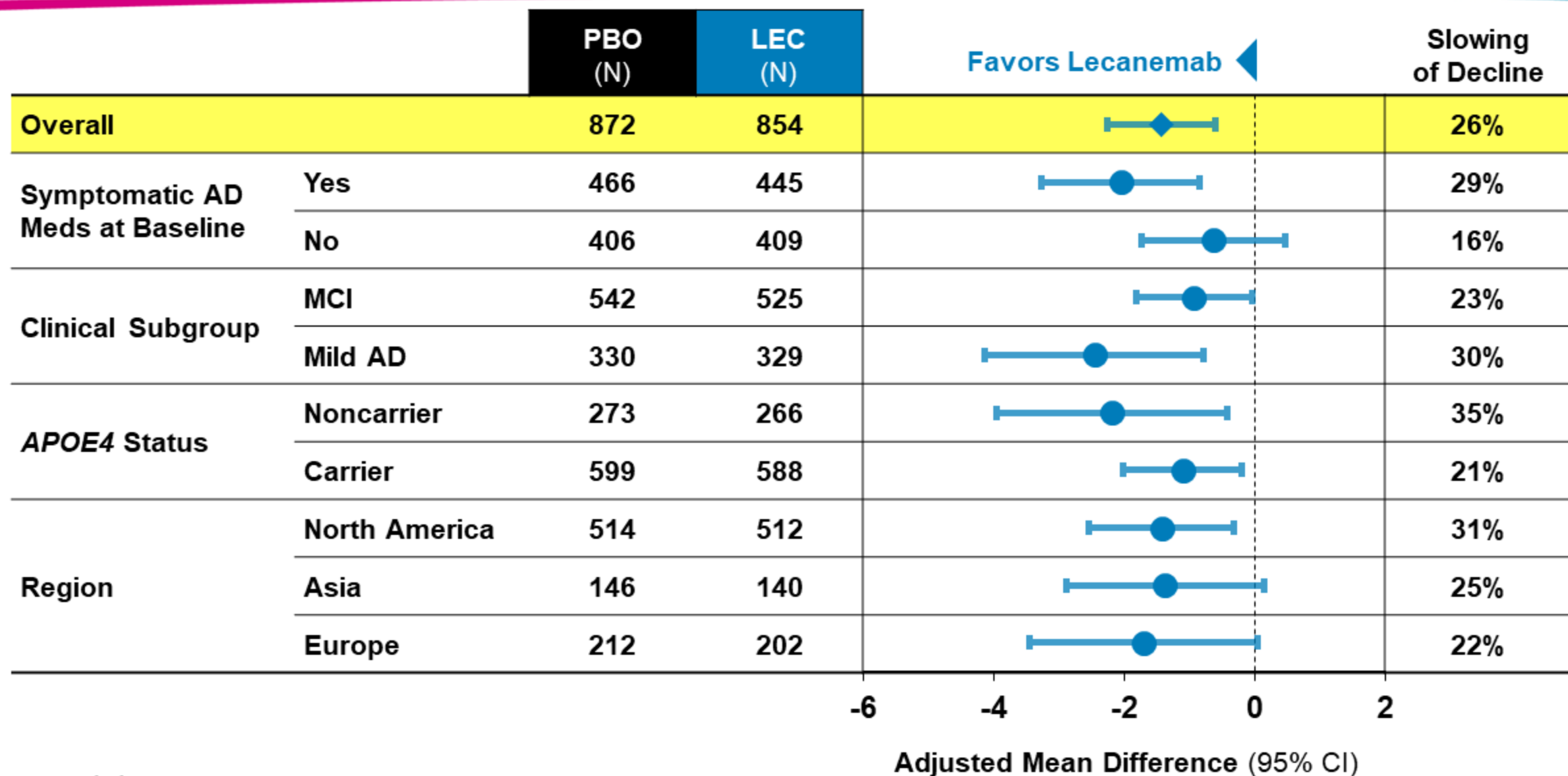
Efficacy Results by Randomization Strata

- Symptomatic AD medication at Baseline (Yes / No)
- Clinical subgroup (MCI or mild AD)
- *APOE4* status (Carrier / Noncarrier)
- Region

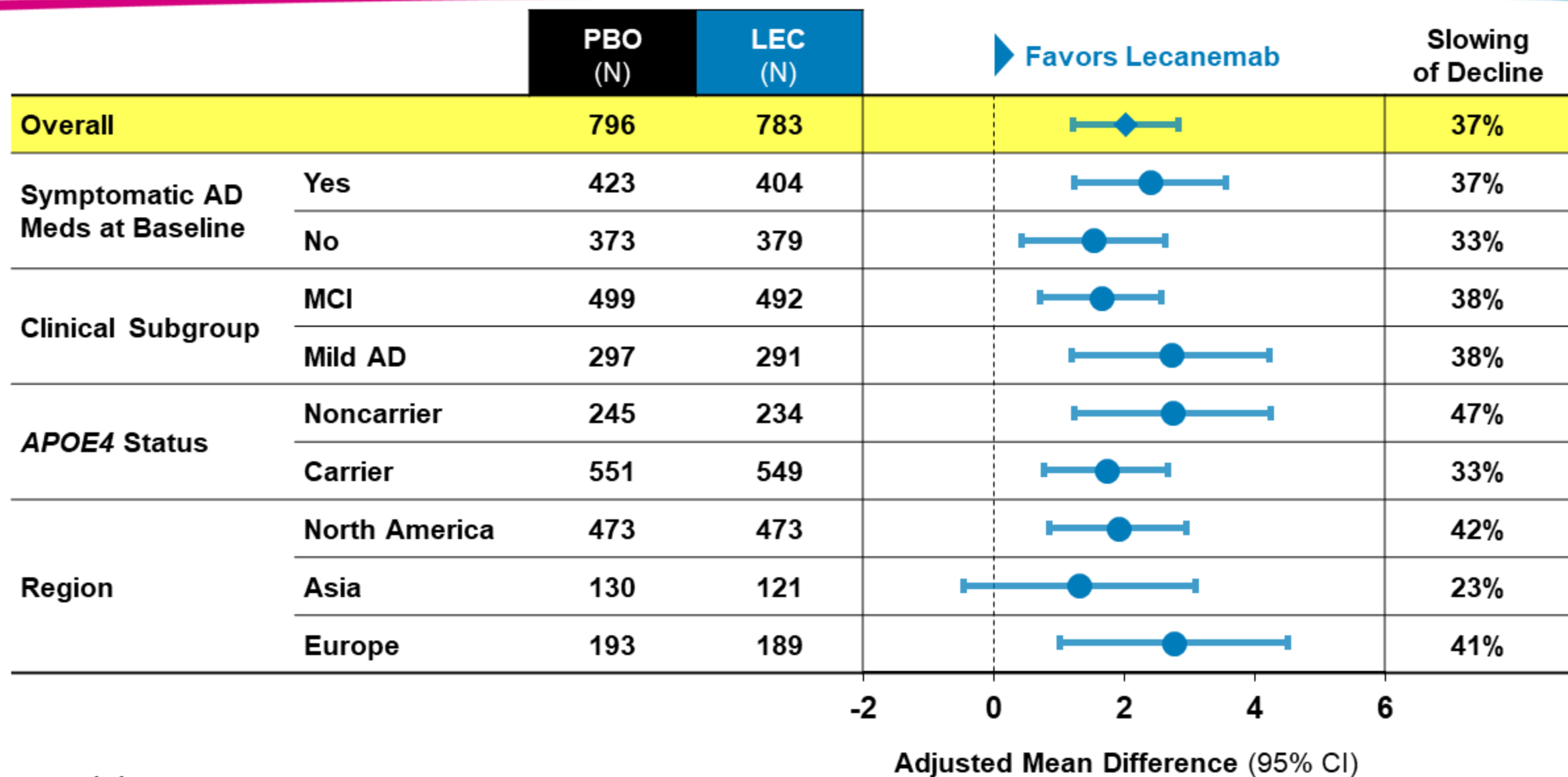
Study 301: Consistent CDR-SB Results Across Subgroups



Study 301: Consistent ADAS-Cog14 Results Across Subgroups



Study 301: Consistent ADCS MCI-ADL Results Across Subgroups



Study 301 Met All Primary and Key Secondary Endpoints, Consistent with Slowing of Disease Progression

- Highly significant results for CDR-SB, ADAS-Cog14, ADCS MCI-ADL
 - $p < 0.011$ at 6 months for all
 - $p < 0.001$ at 18 months
- Meaningful slowing of cognitive and functional decline
 - Results were consistent across endpoints and subgroups
 - Sensitivity analyses confirm robustness of results
 - Significant slowing of decline in QoL and care partner burden*
- Significant reduction in amyloid plaques
 - Improvements in biomarkers of amyloid, tau, neurodegeneration, and gliosis provide biological basis for treatment effects

Study 301 Safety



Michael Irizarry, MD, MPH

Senior Vice President
Deputy Chief Clinical Officer
Alzheimer's Disease and Brain Health
Eisai Inc.

Study 301: Safety Exposures

Duration	Placebo N = 897	Lecanemab N = 898
Mean (months)	16.49	15.74
≥ 3 months	880 (98%)	841 (94%)
≥ 6 months	860 (96%)	816 (91%)
≥ 12 months	800 (89%)	765 (85%)
≥ 18 months	731 (81%)	698 (78%)

Study 301: Overall Safety Profile

	Placebo N = 897	Lecanemab N = 898
Adverse Event (AE)	82%	89%
Serious Adverse Event (SAE)	11%	14%
Infusion-Related Reaction SAE	0	1.2%
ARIA-E SAE	0	0.8%
ARIA-H SAE	0.1%	0.6%
AEs Leading to Study Drug Withdrawal	3%	7%
Deaths*	7 (0.8%)	6 (0.7%)

*There were 2 additional deaths that occurred > 30 days after last study treatment administration (placebo 1, lecanemab 1)

Values rounded

Study 301: Only ARIA and Infusion-Related Reactions Have Important Difference from Placebo

Most Common AEs	Placebo N = 897	Lecanemab N = 898
Any AE	82%	89%
Infusion-Related Reactions	7%	26%
Amyloid-Related Imaging Abnormalities–Hemorrhage (ARIA-H)	9%	17%
Amyloid-Related Imaging Abnormalities–Edema (ARIA-E)	2%	13%
Headache	8%	11%
Fall	10%	10%
Urinary Tract Infection	9%	9%
COVID-19	7%	7%
Back Pain	6%	7%
Arthralgia	7%	6%
Diarrhea	6%	5%
Dizziness	5%	5%
Anxiety	4%	5%

No important changes in Labs, ECG, Vitals

Adverse Events of Special Interest

- Infusion-Related Reactions
- Amyloid-Related Imaging Abnormalities (ARIA)

Study 301: 96% of Infusion-Related Reactions Were Lower Grades and Usually Occurred Once Early in Treatment

	Placebo N = 897	Lecanemab N = 898
Infusion-Related Reaction	7%	26%
Grade 1	5%	9%
Grade 2	3%	17%
Grade 3	0	6 (0.7%)
Grade 4	0	1 (0.1%)

- 75% of events occurred with first dose
 - 6 of 7 Grade 3 or 4 reactions occurred on the first dose
- 66% of patients with Infusion-Related Reaction had single events

Amyloid-Related Imaging Abnormalities are Identified by MRI and Generally Asymptomatic

ARIA-Edema (ARIA-E)

Interstitial vasogenic edema or sulcal effusion that manifests as parenchymal or sulcal hyperintensities

ARIA-Hemorrhages (ARIA-H)

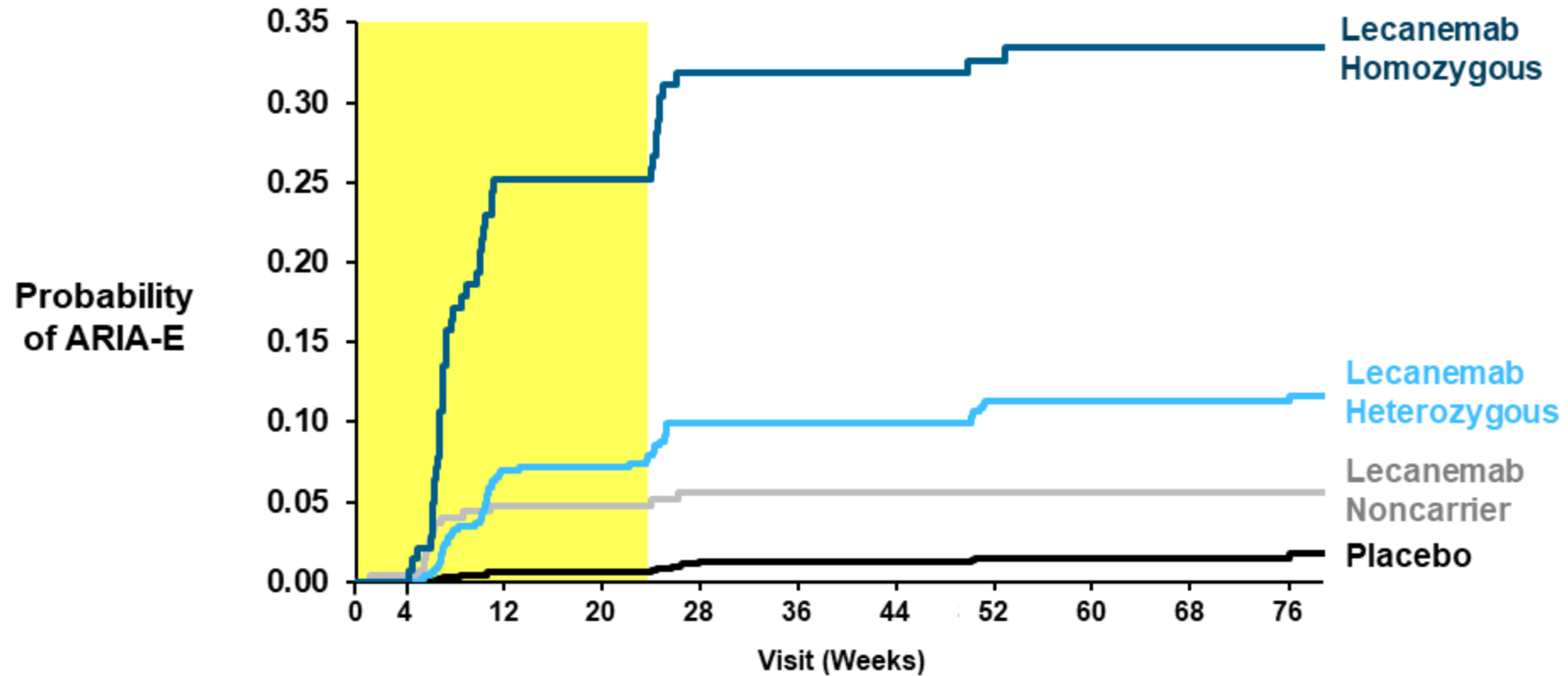
Micro- or macro-hemorrhages observed as hypointense hemosiderin deposition in parenchyma or leptomeningeal/subpial space (superficial siderosis)

- ARIA is a consequence of the presence of amyloid in cerebral blood vessel walls (cerebral amyloid angiopathy [CAA])
- CAA is present pathologically in almost all AD cases, but most patients show no imaging findings (microhemorrhage) or clinical manifestations (intracerebral hemorrhage or inflammatory CAA)
- There is an increased risk of ARIA with monoclonal antibodies that remove amyloid
- There is a lack of definitive clinical criteria for diagnosing CAA

Study 301: ARIA-E Events

	Placebo N = 897		Lecanemab N = 898	
ARIA-E	15	1.7%	113	12.6%
ARIA-E by APOE4 genotype				
Noncarrier	1/286	0.3%	15/278	5.4%
Carrier	14/611	2.3%	98/620	15.8%
Heterozygous	9/478	1.9%	52/479	10.9%
Homozygous	5/133	3.8%	46/141	32.6%
Symptomatic ARIA-E	0	0	25	2.8%
Noncarrier	0	0	4/278	1.4%
Carrier	0	0	21/620	3.4%
Heterozygous	0	0	8/479	1.7%
Homozygous	0	0	13/141	9.2%

Study 301: ~90% of ARIA-E Cases Occurred \leq 6 Months of Treatment, Resolved Within 4 Months of Detection



Number at risk:

Lecanemab Homozygous (N)	141	101	100	91	89	89	88	86	85	83
Lecanemab Heterozygous (N)	479	423	410	395	387	381	374	367	362	343
Lecanemab Noncarrier (N)	277	255	247	239	231	221	216	211	205	204
Placebo (N)	897	879	863	850	822	800	792	777	762	731

Study 301: Isolated ARIA-H (Without ARIA-E) Occurred at Similar Rate Between Lecanemab and Placebo

	Total ARIA-H				Isolated ARIA-H (No ARIA-E)			
	Placebo N = 897		Lecanemab N = 898		Placebo N = 897		Lecanemab N = 898	
ARIA-H	81	9.0%	155	17.3%	70	7.8%	80	8.9%
APOE4 Genotype								
Noncarrier	12/286	4.2%	33/278	11.9%	11/286	3.8%	23/278	8.3%
Carrier	69/611	11.3%	122/620	19.7%	59/611	9.7%	57/620	9.2%
Heterozygous	41/478	8.6%	67/479	14.0%	35/478	7.3%	40/479	8.4%
Homozygous	28/133	21.1%	55/141	39.0%	24/133	18.0%	17/141	12.1%
Symptomatic ARIA-H	2	0.2%	13	1.4%	2	0.2%	4	0.4%

Study 301: Most ARIA-H Events Were Microhemorrhages and Superficial Siderosis in Conjunction with ARIA-E

CO-49

	Total ARIA-H				Isolated ARIA-H (No ARIA-E)			
	Placebo N = 897		Lecanemab N = 898		Placebo N = 897		Lecanemab N = 898	
ARIA-H	81	9.0%	155	17.3%	70	7.8%	80	8.9%
Microhemorrhage	68	7.6%	126	14.0%	63	7.0%	60	6.7%
Superficial siderosis	21	2.3%	50	5.6%	13	1.4%	23	2.6%
Intracerebral hemorrhage (> 1cm)*	2	0.2%	6	0.7%	1	0.1%	4	0.4%

*Includes 2 patients with intracerebral hemorrhage that occurred > 30 days after last study treatment administration (placebo 1, lecanemab 1)

Study 301: Rates of ARIA Not Increased with Concurrent Antiplatelet or Anticoagulant Use Relative to Lecanemab Alone

	ARIA-E		ARIA-H (microhemorrhage or superficial siderosis)		Intracerebral Hemorrhage	
	Placebo	Lecanemab	Placebo	Lecanemab	Placebo	Lecanemab
No Antiplatelet or Anticoagulation at Any Time	9/584 (1.5%)	74/545 (13.6%)	49/584 (8.4%)	93/545 (17.1%)	1/584 (0.2%)*	3/545 (0.6%)
Event Post Any Antiplatelet (aspirin or non-aspirin)	2/243 (0.8%)	30/271 (11.1%)	22/243 (9.1%)	44/271 (16.2%)	1/243 (0.4%)	1/271 (0.4%)
Event Post Any Anticoagulation (alone or with antiplatelet)	2/72 (2.8%)	4/79 (5.1%)	7/72 (9.7%)	11/79 (13.9%)	0/72 (0%)	2/79 (2.5%)*

*Includes one case on placebo and one case on lecanemab with ICH > 30 days after discontinuing study medication

Lecanemab was Well-Tolerated in Elderly Population With Comorbidities and Concomitant Medications

- Lecanemab was generally well-tolerated
 - Comparable to placebo with exception of ARIA and Infusion-Related Reaction
- ARIA and Infusion-Related Reaction generally occurred early in treatment
 - Supports monitoring during first 6 months
- Follow USPI for ARIA monitoring

Clinician's Perspective



Sharon Cohen, MD, FRCPC

Medical Director and
Site Principal Investigator
Toronto Memory Program

Treatment Goals to Address Urgent Unmet Need in Alzheimer's Disease

- Improving/maintaining core abilities of
 - Cognition
 - Daily function
 - Behavior
- Slowing disease progression to remain at less debilitating and less costly stages of disease
- Maintaining quality of life for patients and care partners
- Intervening early in the disease when abilities and quality of life are still acceptable

Clinical Dementia Rating Scale (CDR)

CDR Yields 2 Scores

- Global CDR Score - stages disease
- CDR-SB - discerns change over time

CDR Domains

- Memory
- Orientation
- Judgment and problem solving
- Community affairs
- Home and hobbies
- Personal care

Rating Scale for Each Domain

None
= 0

Questionable / Slight
= 0.5

Mild / Unable to
Function Independently = 1

Moderate
= 2

Severe
= 3

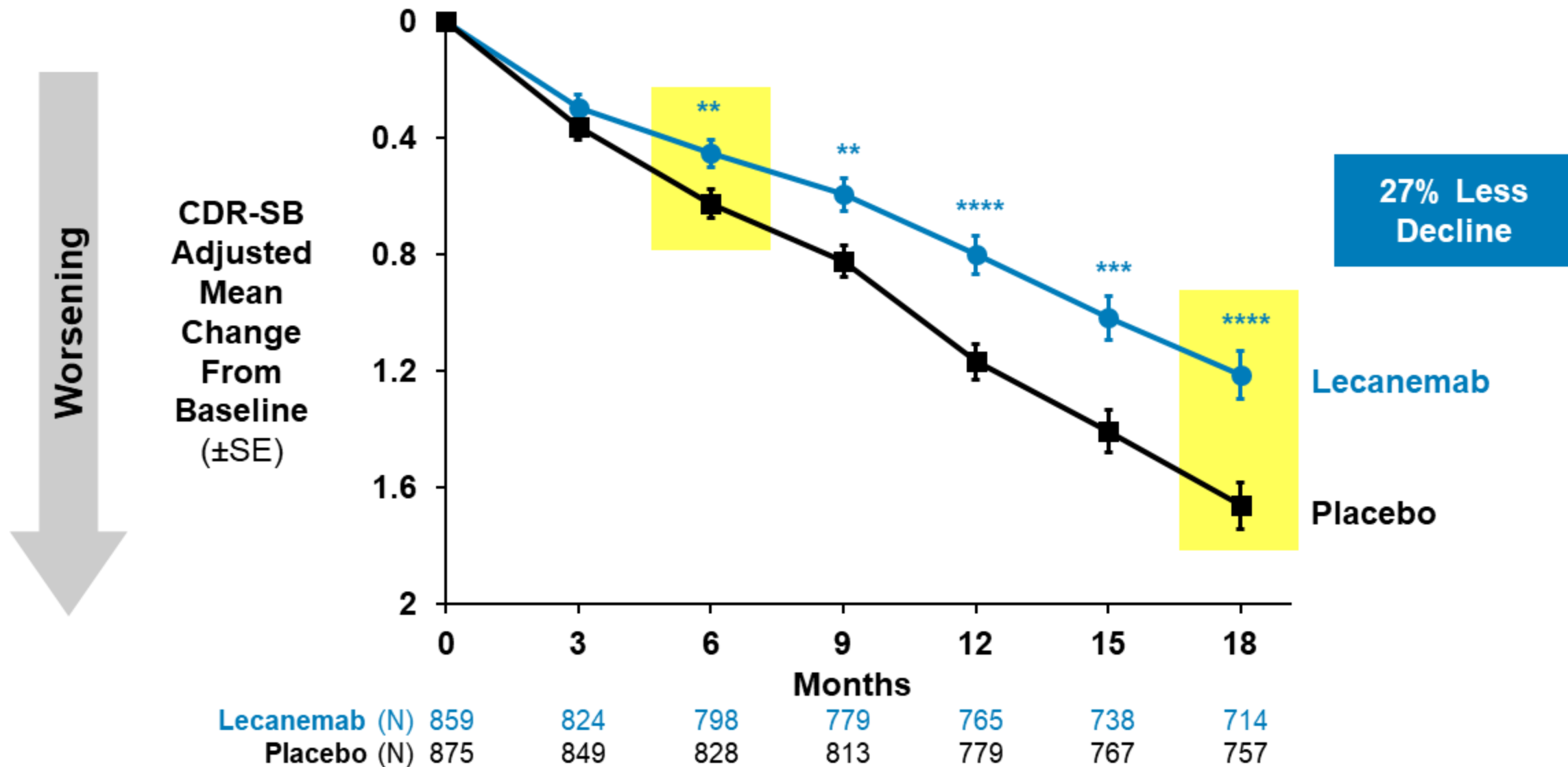
Full CDR-SB range: 0-18; in MCI or Mild AD typical range: 0.5 to 6

- Moving from 0 to 0.5 \approx progressing from unimpaired to impaired
- Moving from 0.5 to 1 \approx progressing from slight impairment to loss of independence

Slowing of Decline on CDR-SB is Clinically Meaningful in Patients With MCI and Mild AD

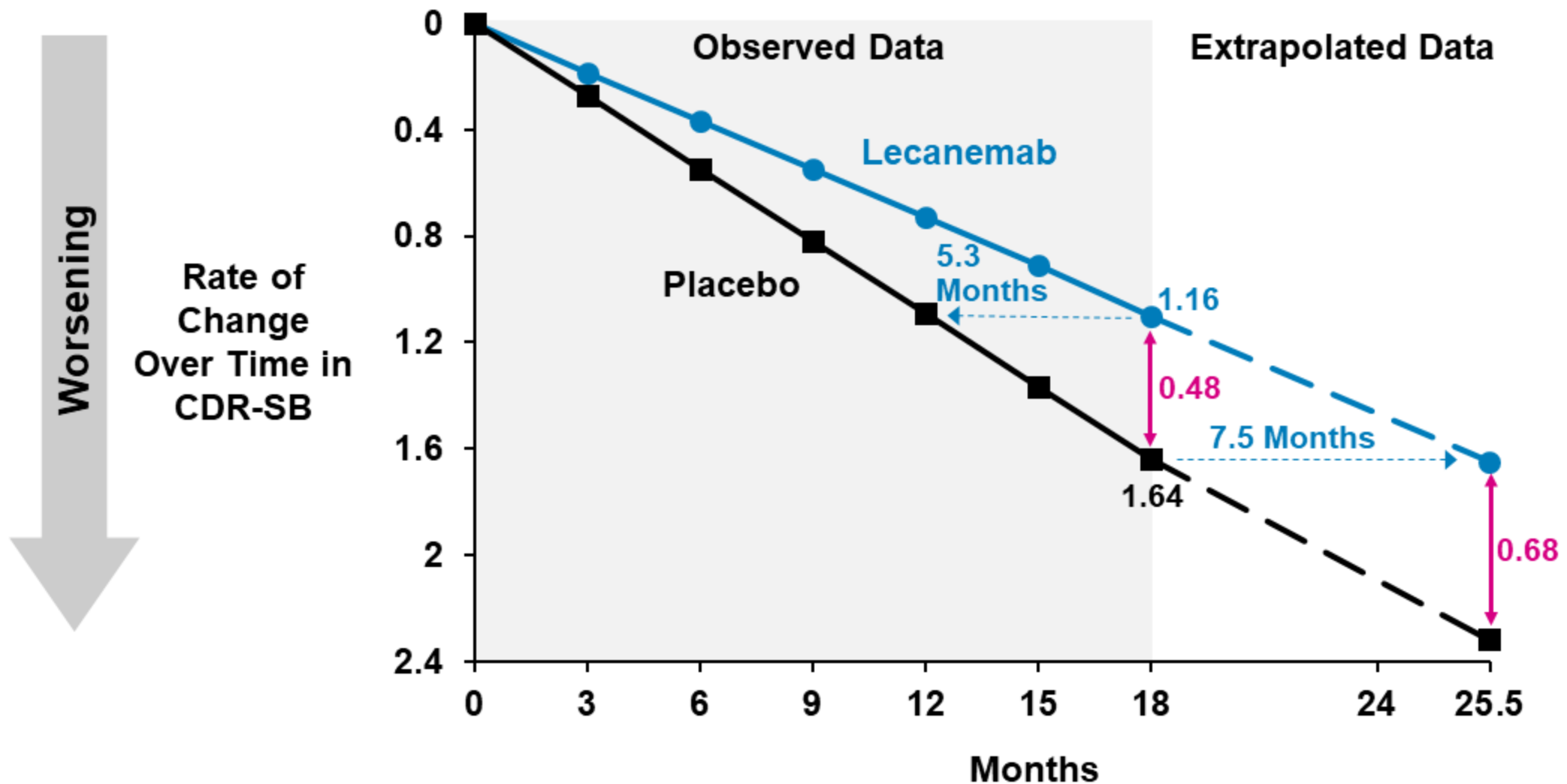
- Literature and AD experts consider 20-30% slowing of disease as clinically meaningful^{1,2}
- CDR incorporates input from expert clinicians, patients, and care partners and measures outcomes meaningful to patients and care partners
- Clinically meaningful effect can be established by demonstration of benefit on core cognitive and functional symptoms of AD on CDR-SB at treatment group level
- Benefits may be expected to increase over time on CDR-SB with treatment that impacts underlying pathophysiology of AD
- CDR-SB can also demonstrate saving of time at earlier stage of AD

Lecanemab Significantly Slowed Disease Progression



p < 0.01; *p < 0.001; ****p < 0.0001

Lecanemab-Treated Patients Maintained at Earlier Stages of Disease for Longer (Slope Analysis Using CDR-SB)

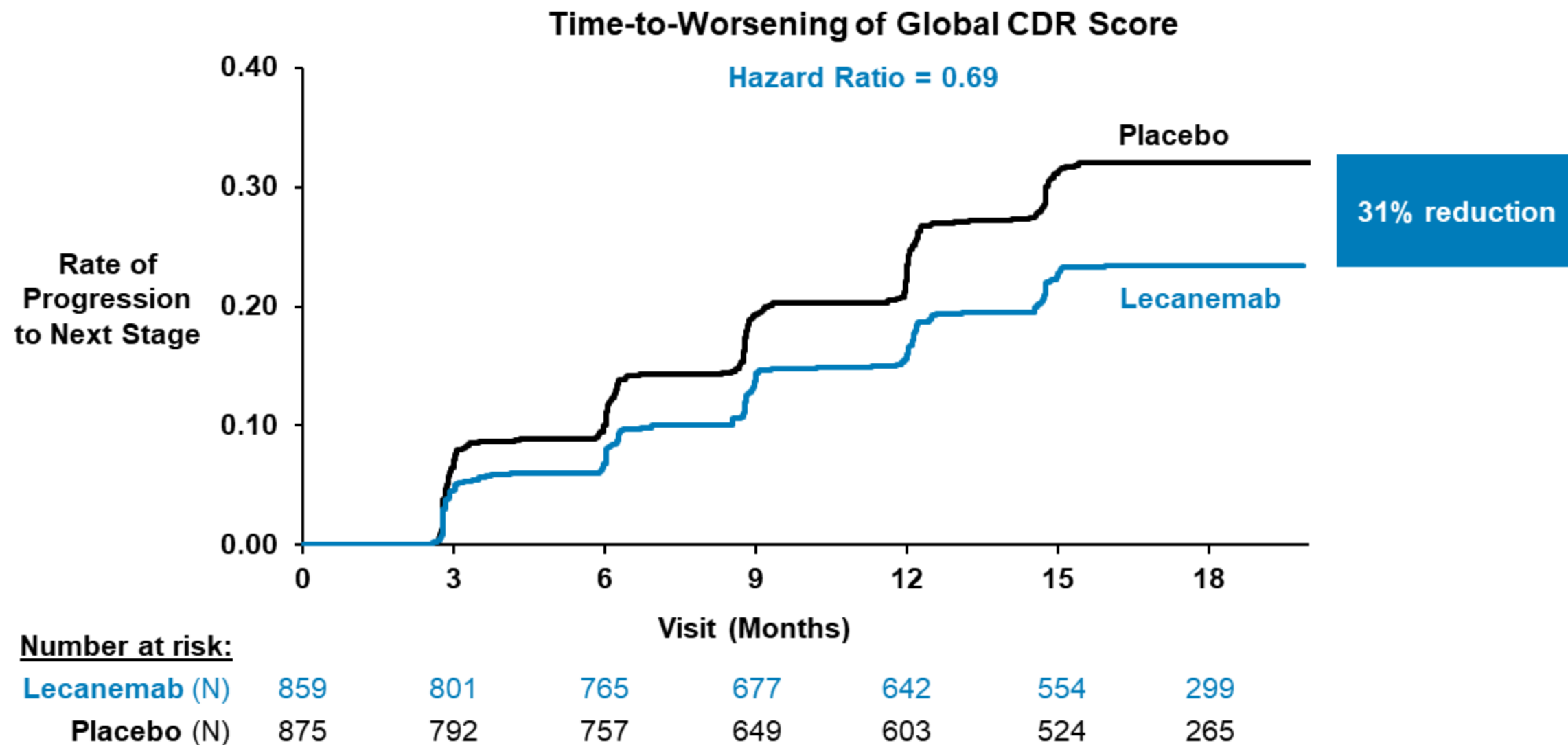


Note: Rate of change over time (mean slope) based on change from baseline in CDR-SB analyzed using linear mixed effects (LME) model; LME model included time, treatment by assessment time as covariate with random intercept and slope

Vital to Remain at Earlier Disease Stages, Avoiding Progression to Landmark Events

- Loss of independence is a landmark event
- Progression from MCI to mild dementia means that one is no longer independent in one or more activities
 - May be unable to work, drive, bank, travel, live alone, pursue hobbies
- Progression from mild dementia to moderate dementia translates into more substantial losses of autonomy across multiple activities
 - Many tasks abandoned; greater need for supervision
 - May need hands on assistance for basic personal care activities such as dressing, toileting, bathing

Study 301 Showed that Patients Treated With Lecanemab had Meaningful Delay in Time-to-Worsening



Progression was defined as Global CDR Score progressing from 0.5 [MCI] to 1 [mild AD dementia] or 1 [mild dementia] to 2 [moderate dementia]

Health-Related Quality of Life

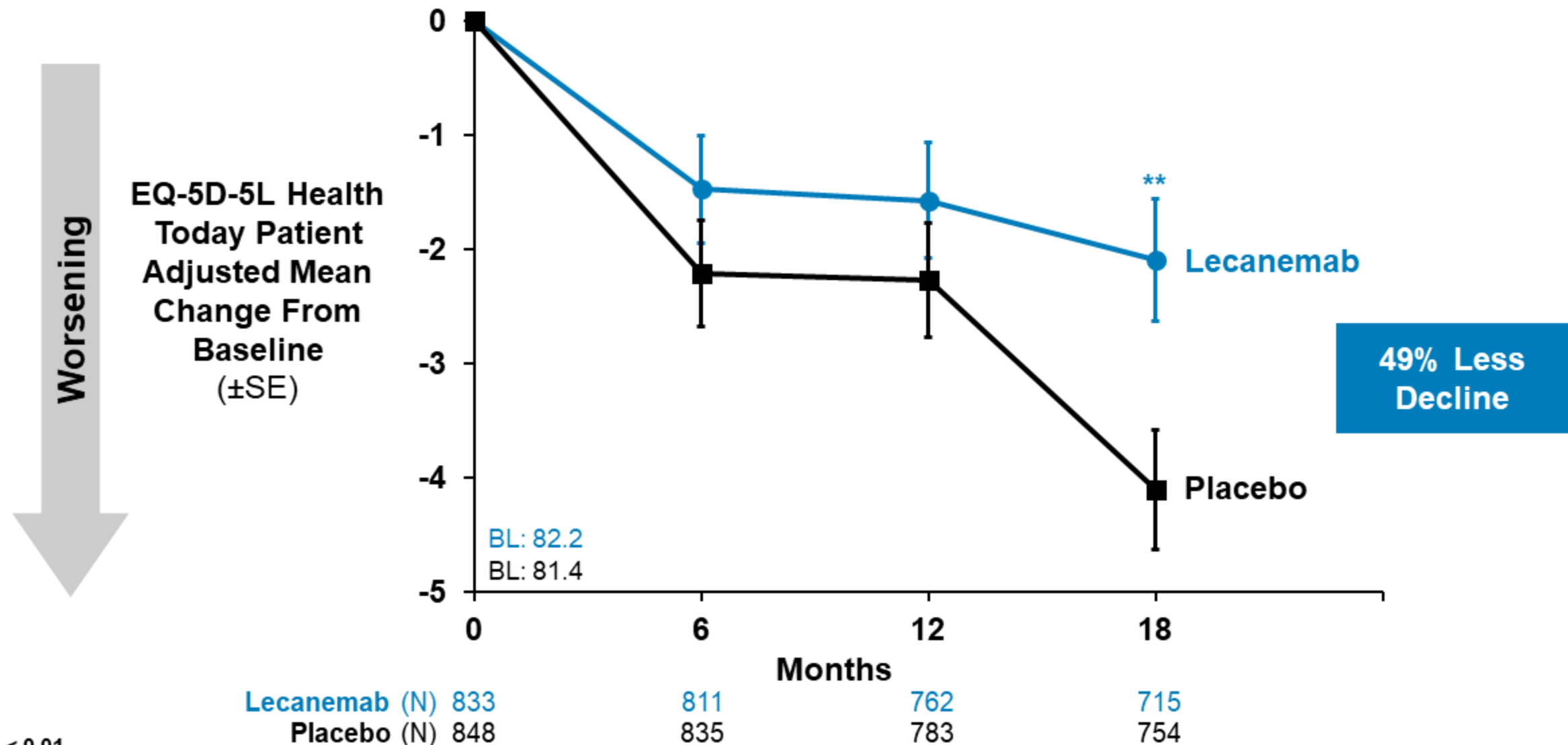
- Perception of how one's well-being is affected by a disease, disability, or disorder
- Not interchangeable with health status
- Broader than activities of daily living but often correlates with function
- Ideally rated by patients in relation to their personal expectations, which can vary over time and with disease
- Questionnaires may be multidimensional, covering physical, social, emotional, cognitive, work/role-related and/or disease-related
- Provides patient-reported outcomes which are central to understanding value of treatment

Summary of Health-Related Quality of Life Assessments

Tool	Evaluation	Scale	Source of Input	Total Score Range	Assessments
European QOL-5 Dimensions (EQ-5D-5L)	5 Health Dimensions (Self-care, Usual Activities, Anxiety/Depression, Mobility*, Pain/Discomfort*)	5 dimensions, each with 5 levels of severity	Patient	0 (worst) to 100 (best)	Baseline; every 6 months
Quality of Life in AD (QOL-AD)	Quality of life of patient with AD	13-item questionnaire, each with 4 levels of severity	Patient	13 (worst) to 52 (best)	Baseline; every 6 months
Zarit Burden Interview	Stresses experienced by care partners of patients with dementia	22-item instrument, each with 5 levels of severity	Care partner	0 (best) to 88 (worst)	Baseline; every 6 months

In MCI and mild AD, patients themselves are most appropriate source of QoL information, while care partners are most appropriate source for care partner burden

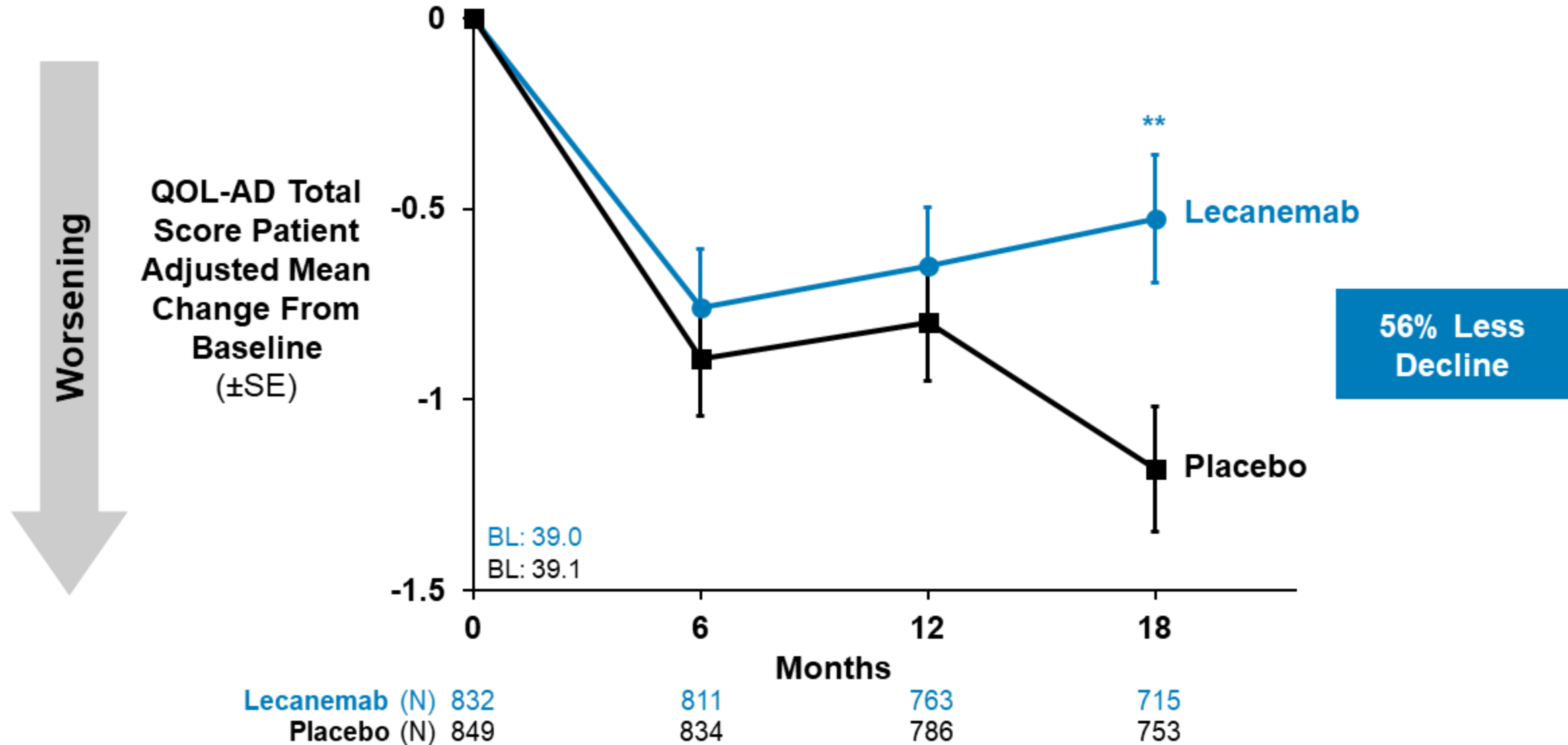
EQ-5D-5L* (Health Today Rated by Patient): Patients Had 49% Less Decline



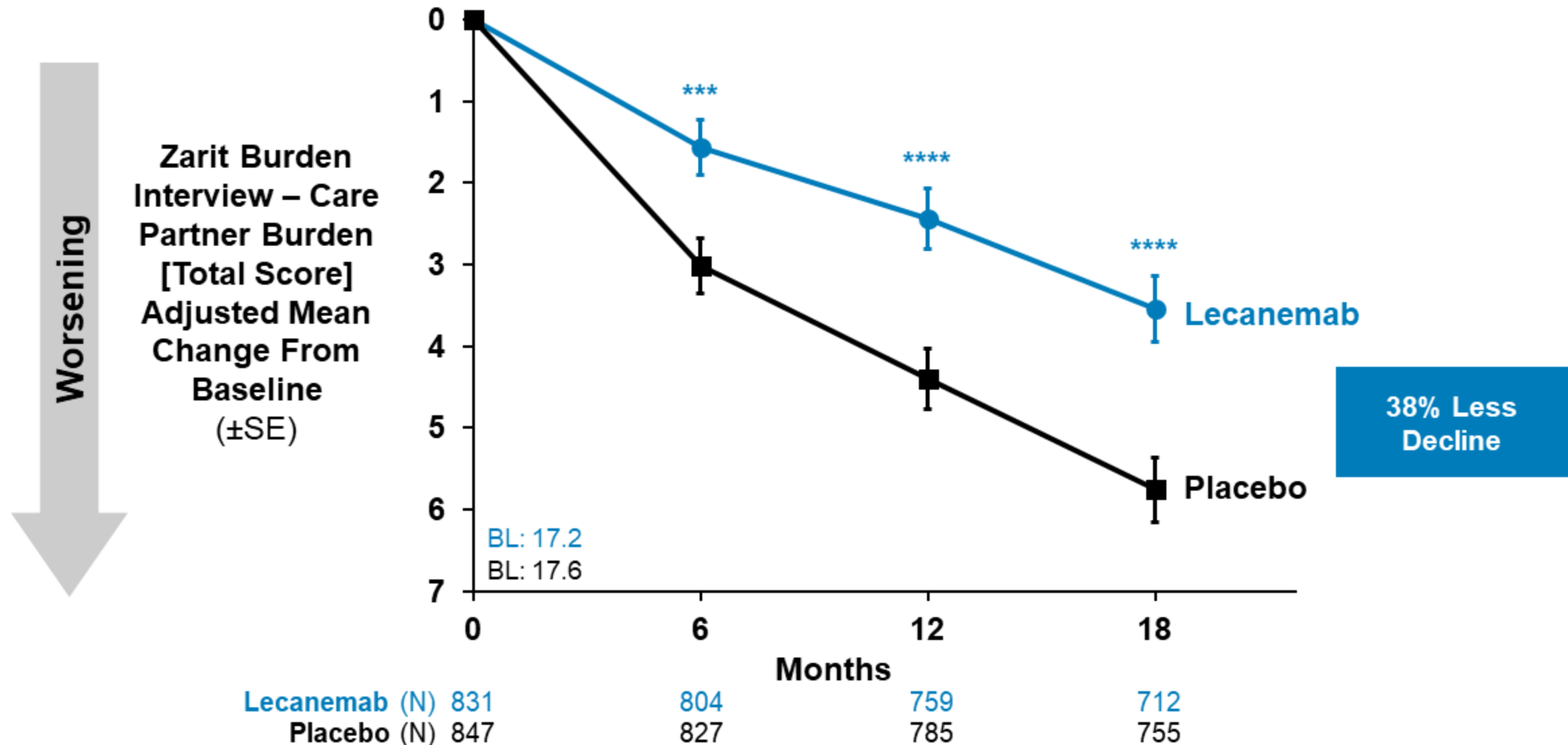
**p < 0.01

*Most relevant dimensions to early AD are self-care, usual activities, anxiety/ depression

QOL-AD (Rated by Patient): Patients Had 56% Less Decline



Zarit Burden Interview: Care Partner Burden Reduced by 38%



Lecanemab Provides Clinically Meaningful Benefits to Patients and Care Partners: A Clinician's Perspective

- Clinicians value consistent data across multiple key aspects of disease being treated and the opportunity to intervene early
 - 26-37% slowing of disease progression on clinical scales
 - 38-56% less decline in health-related quality of life
- Patients and clinicians value disease slowing at the earliest clinical stages in an otherwise relentlessly progressive, disabling disease
- Diverse study population, with respect to age, background medications, comorbidities, and race, provide treating physicians with confidence that study results will be applicable to real-world patients
- QoL measures are rarely reported in AD studies; positive QoL results over multiple scales provide patient centricity that is of paramount importance to clinicians striving to meet needs of their patients

Conclusion



Lynn Kramer, MD, FAAN

Chief Clinical Officer

Alzheimer's Disease and Brain Health

Eisai Inc.

Lecanemab: Confirmatory Study 301 Demonstrated Consistent, Persistent, Slowing of Disease Progression in Patients With Early AD

CO-67

Selectively targets amyloid beta (A β) protofibrils

Highly statistically significant and clinically meaningful slowing in multiple measures of clinical decline, and effects on biomarkers consistent with slowing of disease progression

Well-tolerated with well-characterized safety, supporting a positive benefit-risk profile

Conducted in patients with broad range of comorbidities and concomitant medications from a diverse racial and ethnic background, clinical trial practice settings generalizable to US population

Study 301: The Confirmatory Study to Verify and Describe the Clinical Benefit of Lecanemab for the Treatment of Early AD

**Peripheral and Central Nervous System Drugs
Advisory Committee Meeting**

Eisai Inc.

June 9, 2023

Backup Slides Shown

ARIA-E and -H: Guidance for Patients and Care Partners in Current Medication Guide

MEDICATION GUIDE
LEQEMBI™ (leh-kem'-bee)
(lecanemab-irmb)
injection, for intravenous use

What is the most important information I should know about LEQEMBI?

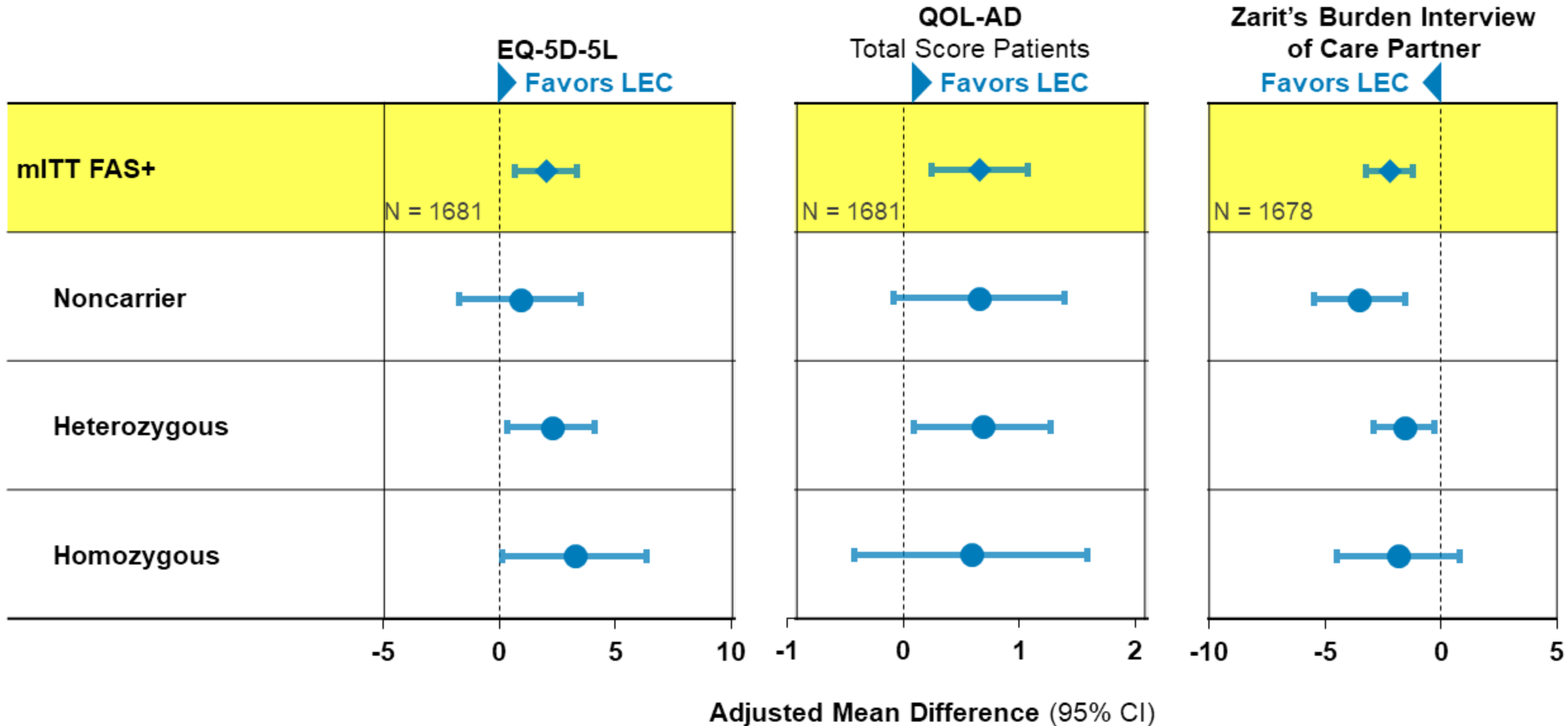
LEQEMBI can cause serious side effects including:

- **Amyloid Related Imaging Abnormalities or “ARIA”.** **ARIA is a side effect that does not usually cause any symptoms but serious symptoms can occur.** ARIA is most commonly seen as temporary swelling in areas of the brain that usually resolves over time. Some people may also have small spots of bleeding in or on the surface of the brain, and infrequently, larger areas of bleeding in the brain can occur. Most people with this type of swelling in the brain do not get symptoms, however some people may have symptoms, such as:
 - headache
 - confusion
 - dizziness
 - vision changes
 - nausea
 - difficulty walking
 - seizures

Your healthcare provider will do magnetic resonance imaging (MRI) scans before and during your treatment with LEQEMBI to check you for ARIA. Some people have a genetic risk factor (homozygous apolipoprotein E gene carriers) that may cause an increased risk for ARIA. Talk to your healthcare provider about testing to see if you have this risk factor.

Call your healthcare provider or go to the nearest hospital emergency room right away if you have any of the symptoms listed above.

Study 301: Homozygous *APOE4* Carriers Improved on QOL Outcomes Similar to Overall Population



Study 301: CDR-SB By Concomitant Medication

