



The Evolving Science of LBD & Why Your Voice Matters

Presenter: Keith N. Fargo, PhD, Director of Scientific Initiatives
Lewy Body Dementia Association

9:00 – 9:45 am

1



What Is a Biomarker?

A biomarker is a measurable sign of what's happening inside your body



Blood Pressure

measured with a cuff



Blood Test

cholesterol, kidney function



Brain Biomarkers

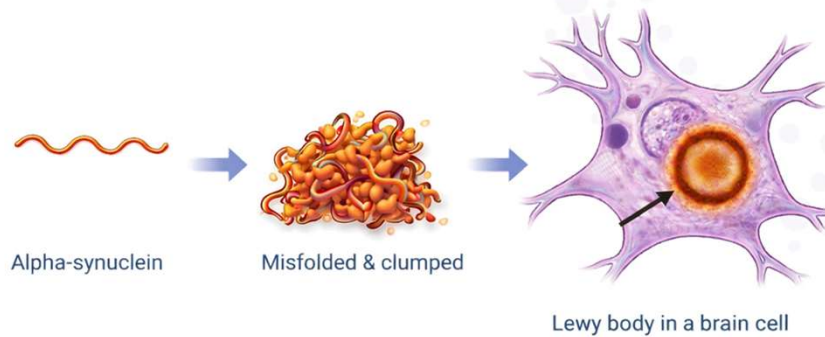
changes inside the brain

Biomarkers shift diagnosis from describing symptoms to understanding what's

2



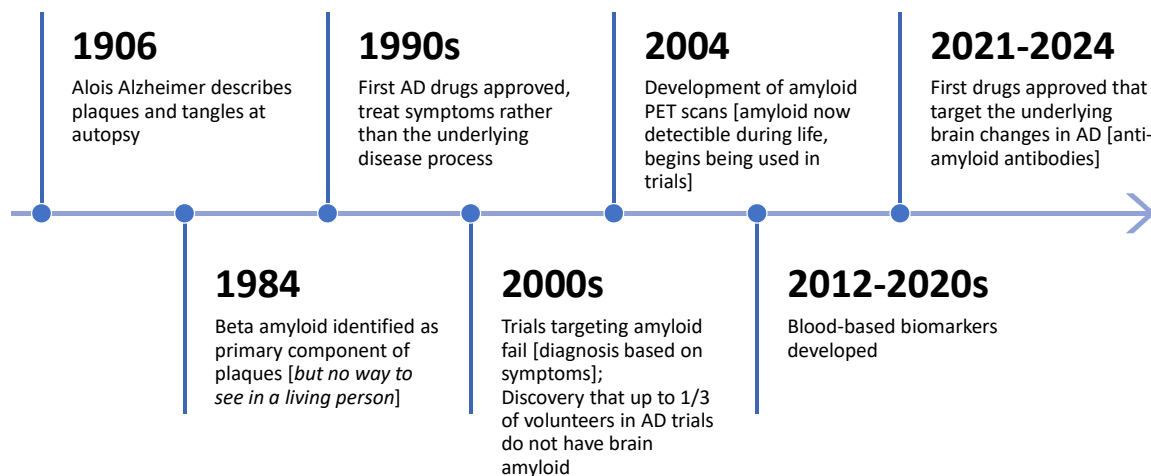
What Is a Lewy Body Made From?



3



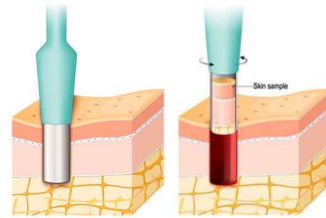
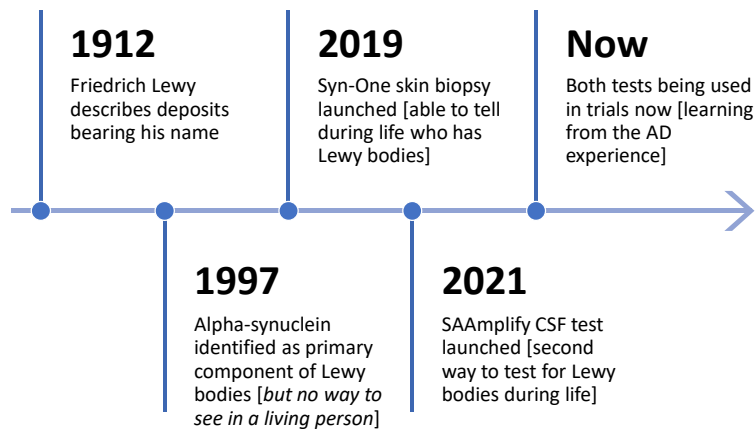
From Symptoms to Biology: The AD Story



4



The LBD Biomarker Story



5



TABLE 1 Categorization of fluid analyte and imaging biomarkers.

Biomarker category	CSF or plasma analytes	Imaging
Core Biomarkers		
Core 1		
A (A β proteinopathy)	A β 42	Amyloid PET
T ₁ : (phosphorylated and secreted AD tau)	p-tau217, p-tau181, p-tau231	
Core 2		
T ₂ (AD tau proteinopathy)	MTBR-tau243, other phosphorylated tau forms (e.g., p-tau205), non-phosphorylated mid-region tau fragments ^a	Tau PET
Biomarkers of non-specific processes involved in AD pathophysiology		
N (injury, dysfunction, or degeneration of neuropil)	NfL	Anatomic MRI, FDG PET
I (inflammation) Astrocytic activation	GFAP	
Biomarkers of non-AD copathology		
V vascular brain injury		Infarction on MRI or CT, WMH
S α -synuclein	α Syn-SAA ^a	

6



Current DLB Diagnostic Criteria – and What's Coming



7



AD and LBD Overlap More Than We Thought

25–30%

of people diagnosed
with Alzheimer's disease

also show alpha-synuclein pathology in living studies

SHIMMER, ADNI, AD trials

~50%

of people diagnosed
with dementia with Lewy bodies

Also found to have amyloid deposits at autopsy

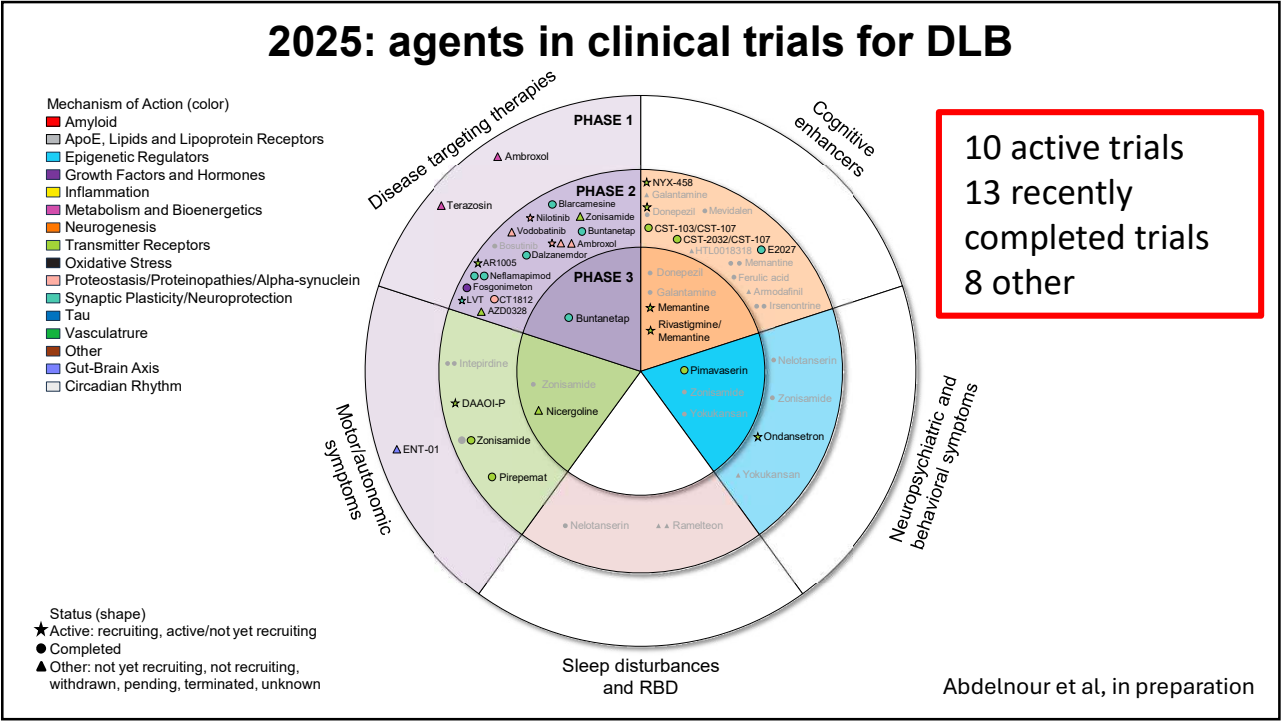
Autopsy studies

Significant overlap

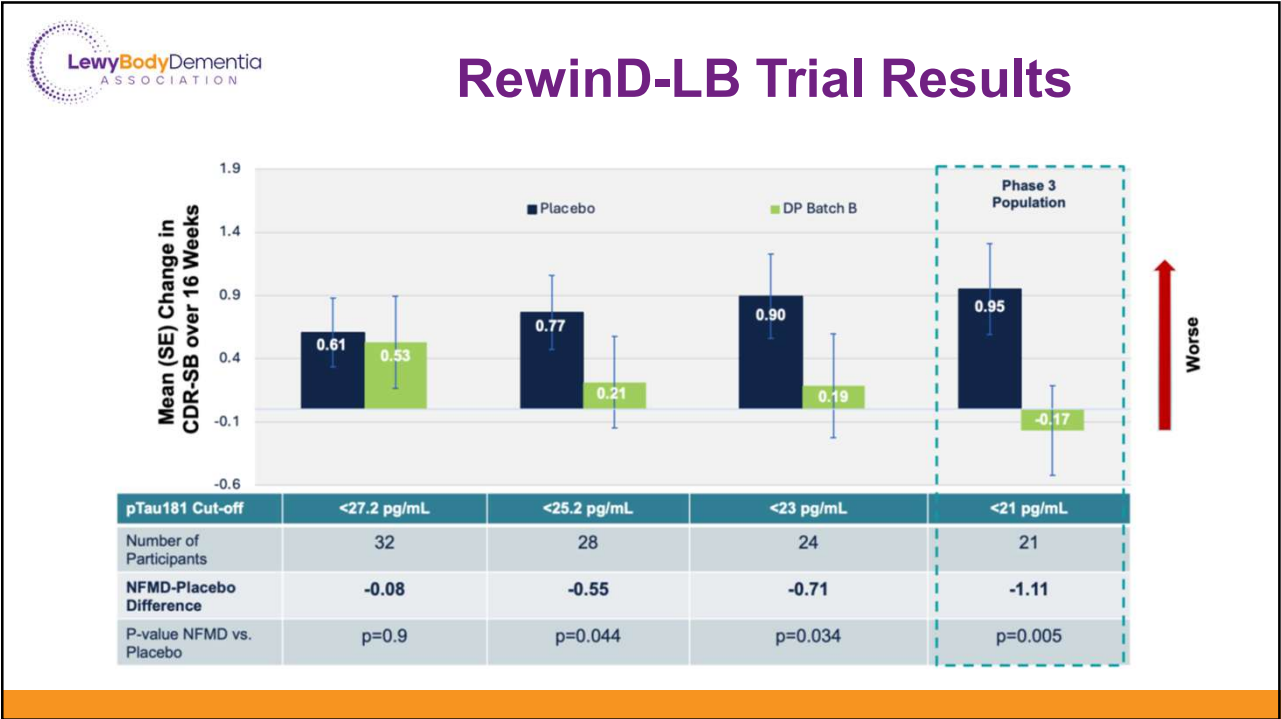
Both directions confirmed

These diseases are not as separate as we once thought — and that has direct implications for treatment.

8



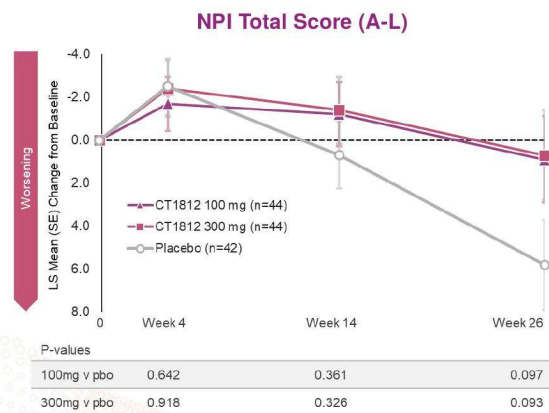
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10

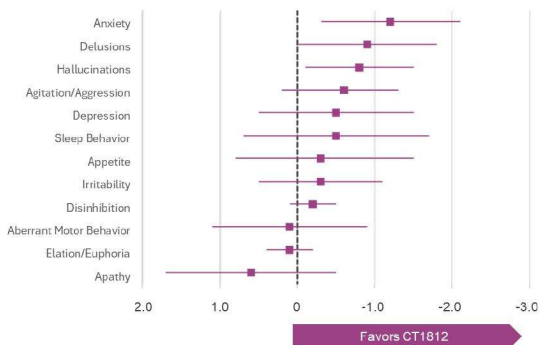
CT1812 Showed 86% Impact on Neuropsychiatric Measures

NPI captures a variety of patient disturbances, including hallucinations, anxiety, and delusions



NPI Favors Treatment with CT1812

LS Mean (SE) Difference from Placebo (95% CI)



7 NPI: Neuropsychiatric Inventory

COGNITION
Therapeutics

11

The ILLUMERA Trial for Lewy Body Dementia Psychosis (LBDP)

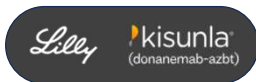
- Do you have LBD?
- Have you experienced hallucinations and/or delusions for at least two months?
- Are you between 55 and 84?
- Learn more about the ILLUMERA trial at ILLUMERAstudy.com

ILLUMERA

12



The TRAILBLAZER-ALZ 7 Study for Lewy Body Dementia



- Do you have Parkinson's disease **OR** at least one core clinical feature of dementia with Lewy bodies?
- Do you have symptoms of early cognitive decline?
- Are you between 55 and 85?
- Learn more at clinicaltrials.gov | Search [NCT07589595](https://clinicaltrials.gov/ct2/show/study/NCT07589595)

13



LEWY TRIAL TRACKER

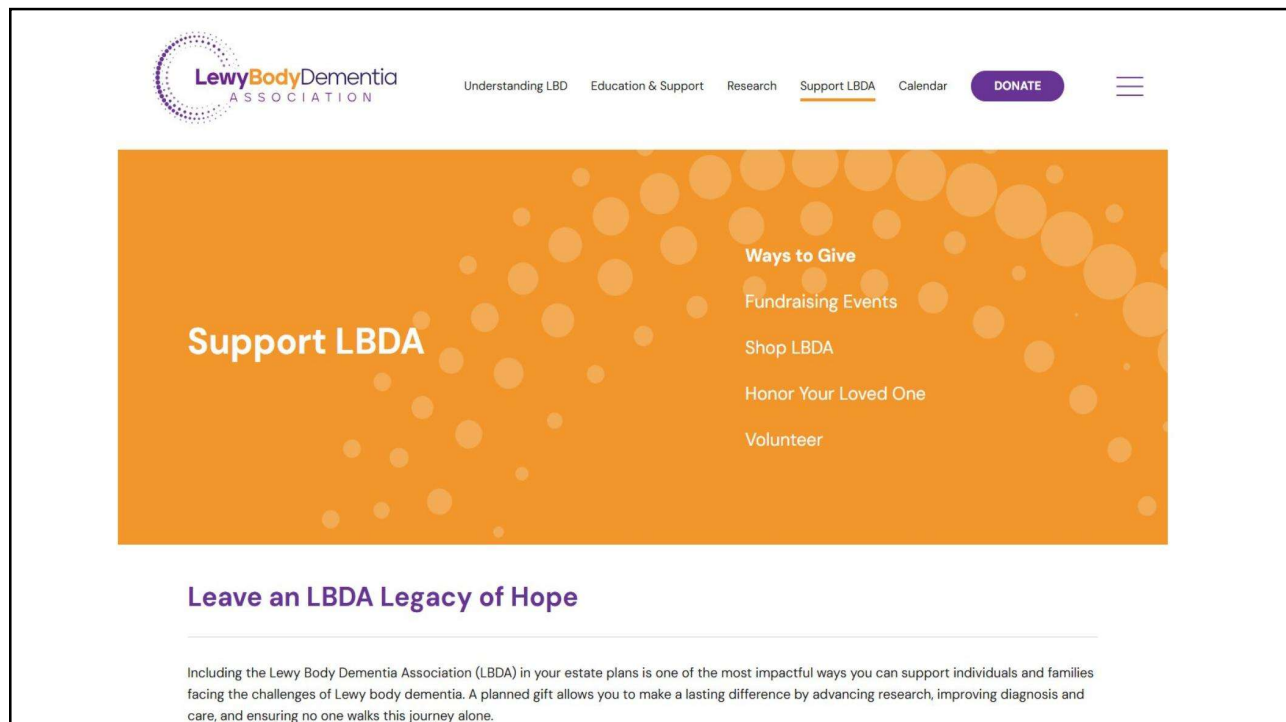
Sign up for the Lewy Trial Tracker and receive a quarterly e-newsletter with information on current clinical trials and other research studies related to LBD that need participants.

Who should sign up?

Individuals within the United States living with Lewy and their care partners.

Select Lewy Trial Tracker under Research at lbda.org to enroll.

14



The screenshot shows the top navigation bar of the Lewy Body Dementia Association website. The logo is on the left, followed by links: Understanding LBD, Education & Support, Research, Support LBDA, and Calendar. A purple 'DONATE' button and a hamburger menu icon are on the right. Below the navigation bar is a large orange banner with the text 'Support LBDA' on the left and a list of 'Ways to Give' on the right: Fundraising Events, Shop LBDA, Honor Your Loved One, and Volunteer. Below the banner is a section titled 'Leave an LBDA Legacy of Hope' with a paragraph of text.

LewyBodyDementia
ASSOCIATION

Understanding LBD Education & Support Research Support LBDA Calendar **DONATE**

Support LBDA

Ways to Give

- Fundraising Events
- Shop LBDA
- Honor Your Loved One
- Volunteer

Leave an LBDA Legacy of Hope

Including the Lewy Body Dementia Association (LBDA) in your estate plans is one of the most impactful ways you can support individuals and families facing the challenges of Lewy body dementia. A planned gift allows you to make a lasting difference by advancing research, improving diagnosis and care, and ensuring no one walks this journey alone.

15



The screenshot shows a 'Thank You' message from the Lewy Body Dementia Association. The logo is in the top left corner. A large, stylized circular graphic made of purple dots surrounds the text 'Thank You' and 'lbda.org'. A horizontal purple line is at the bottom.

LewyBodyDementia
ASSOCIATION

Thank You

lbda.org

16