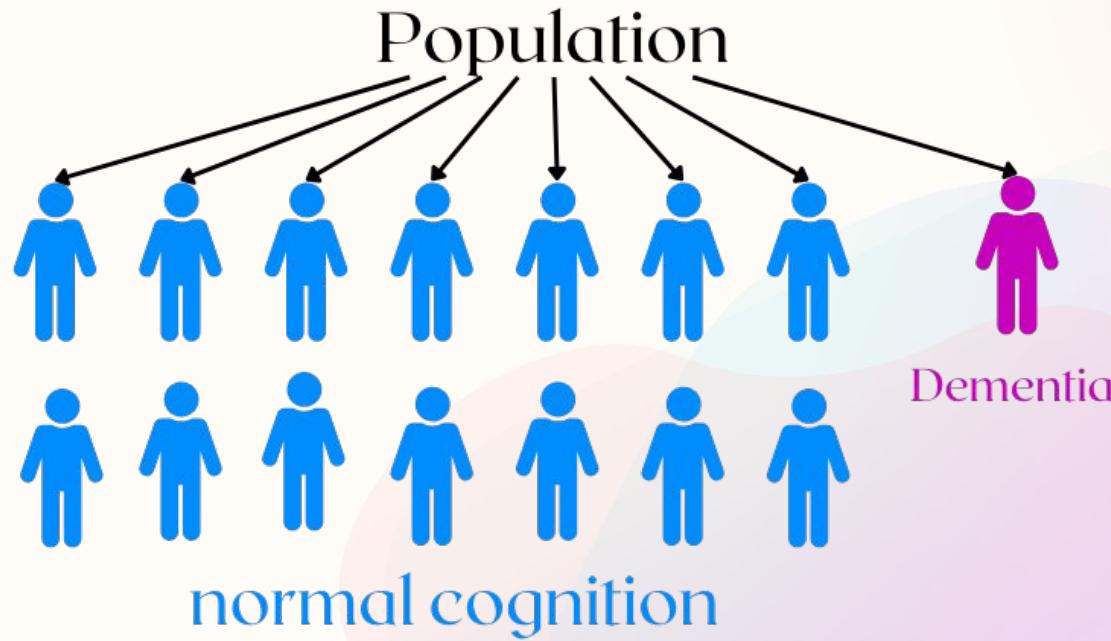
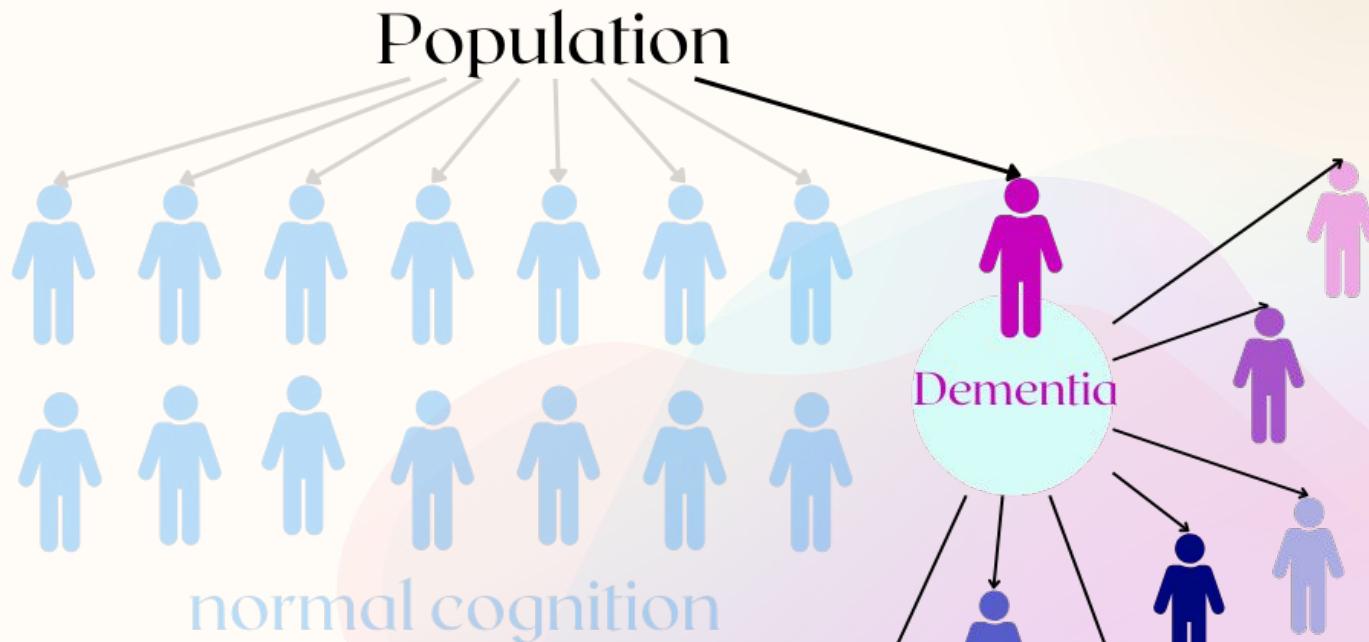


Beyond ApoE4: *Genomic Insights for Cognitive Health*

Anna Sattah, MD
Insight Functional Health

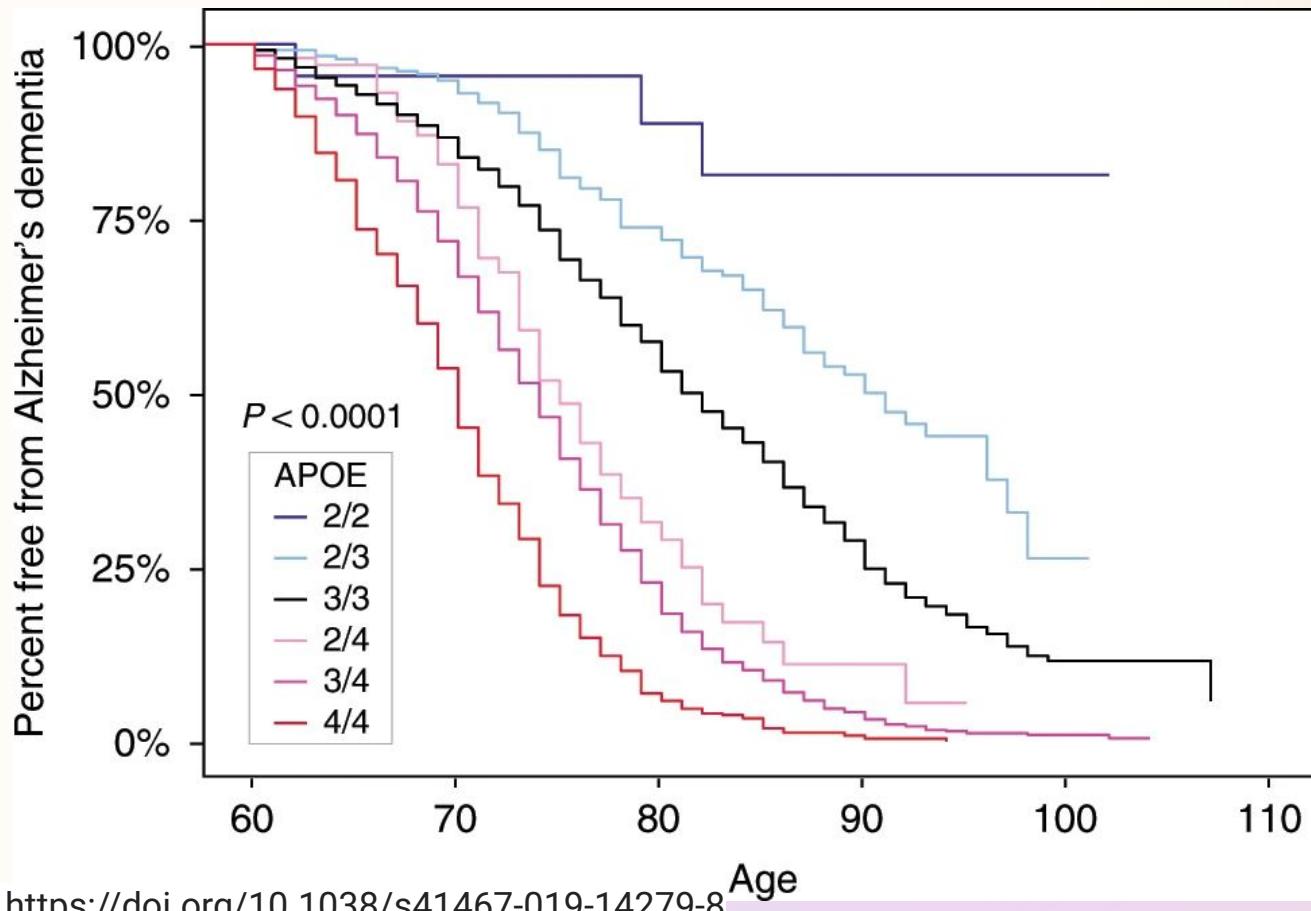


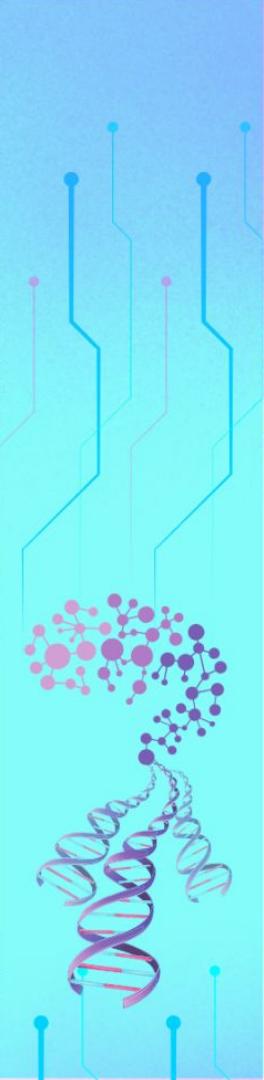




normal cognition

Risk of Dementia with ApoE Gene Status





Brain Optimization Report

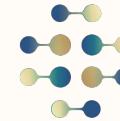
Key Panels

Brain Ischemia
Cognition and Memory
Hippocampal Atrophy
White Matter Changes

Fundamentals

Inflammation & Gut:
Gluten/Celiac
Inflammation

Detox & Nutrigenomics
Heavy Metals & Glutathione
Environmental Toxins
Homocysteine & Methylation
Choline
Copper & Zinc
Magnesium
Vitamins B12, B6, D



IntellxxDNA™

Supporting Panels

Anesthesia Response
BDNF
CRP
Diabetes Type 2
Endocannabinoid
Estrogen
Obesity & Weight Control
Thyroid: Free T4 to Free T3



Lenny, International Businessman

- 47 year old man with cognitive decline that worsened when traveling
- Baseline cognitive testing- Mild Cognitive Impairment
- Read “The End of Alzheimers” by Dr Bredesen
 - Keto diet
 - 10+ supplements
 - No significant improvement
- What's going on?



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Blood Flow/ Brain Ischemia was Key

SNP ID Gene Minor Allele	Patient Results Prevalence	Variant	Panel	SNP Key Point
	AG 3.3%	1	Brain Ischemia	Factor II (ischemic stroke/hypercoagulable) <i>This is the F2 SNP (prothrombin gene mutation) that has been highly studied due to its causal role in the formation of blood clots in the legs and lungs. It also can increase blood clotting and cause "thicker" blood in the brain. This can increase the risk of low oxygen and strokes.</i>
	TC 5%	1	Brain Ischemia	Coagulation Factor V (ischemic stroke/hypercoagulable) <i>This is the F5 SNP (Factor V Leiden mutation) that has been highly studied due to its causal role in the formation of blood clots in the legs and lungs. It also can increase blood clotting and cause "thicker" blood in the brain. This can increase the risk of low oxygen and strokes.</i>
	CC 10.3%	2	Cognition and Memory	Cytochrome P450 Family 19 Subfamily A Member 1 (estrogen synthesis) <i>Individuals with this SNP are prone to lower capacity to make estrogen. Estrogen is neuroprotective, so individuals with impaired estrogen production and this SNP have increased cognitive risks. This SNP can also have additive effects with APOE e4.</i>
	TT 10.5%	2	Diabetes Type 2	Insulin Like Growth Factor 2 mRNA Binding Protein 2 (insulin resistance, hyperglycemia) <i>Individuals with this SNP have been associated with overexpression of an insulin growth factor (IGF2). This can cause damage to the pancreas, insulin resistance, higher blood sugar levels, and increased storage of abdominal fat.</i>

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Addressing His Tendency to Clot More

Pycnogenol- can decrease fibrinogen by up to 62%

Lumbrokinase- decreases fibrinogen and inflammatory cytokines

- in a trial of patients with recent stroke

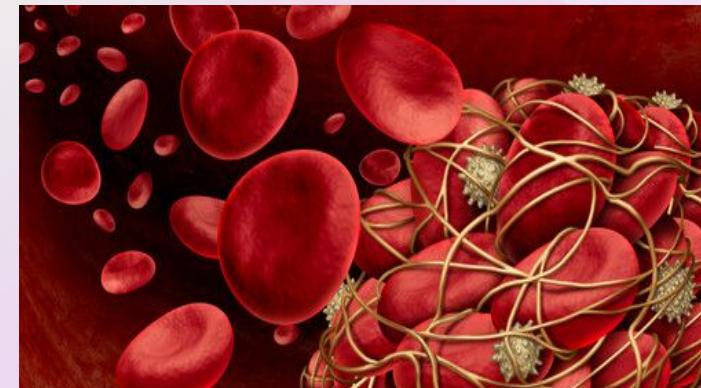
- reduced stroke 82%

Nattokinase- decreases fibrinogen

<https://pubmed.ncbi.nlm.nih.gov/24229674/>

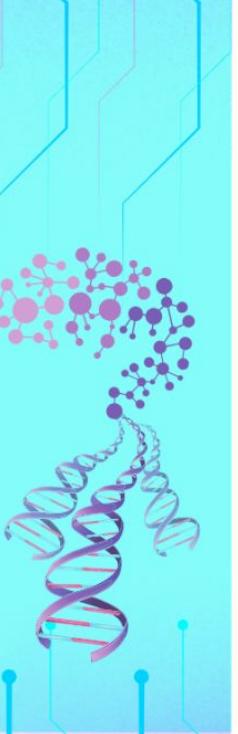
<https://pubmed.ncbi.nlm.nih.gov/19358933/>

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Lenny's Plan

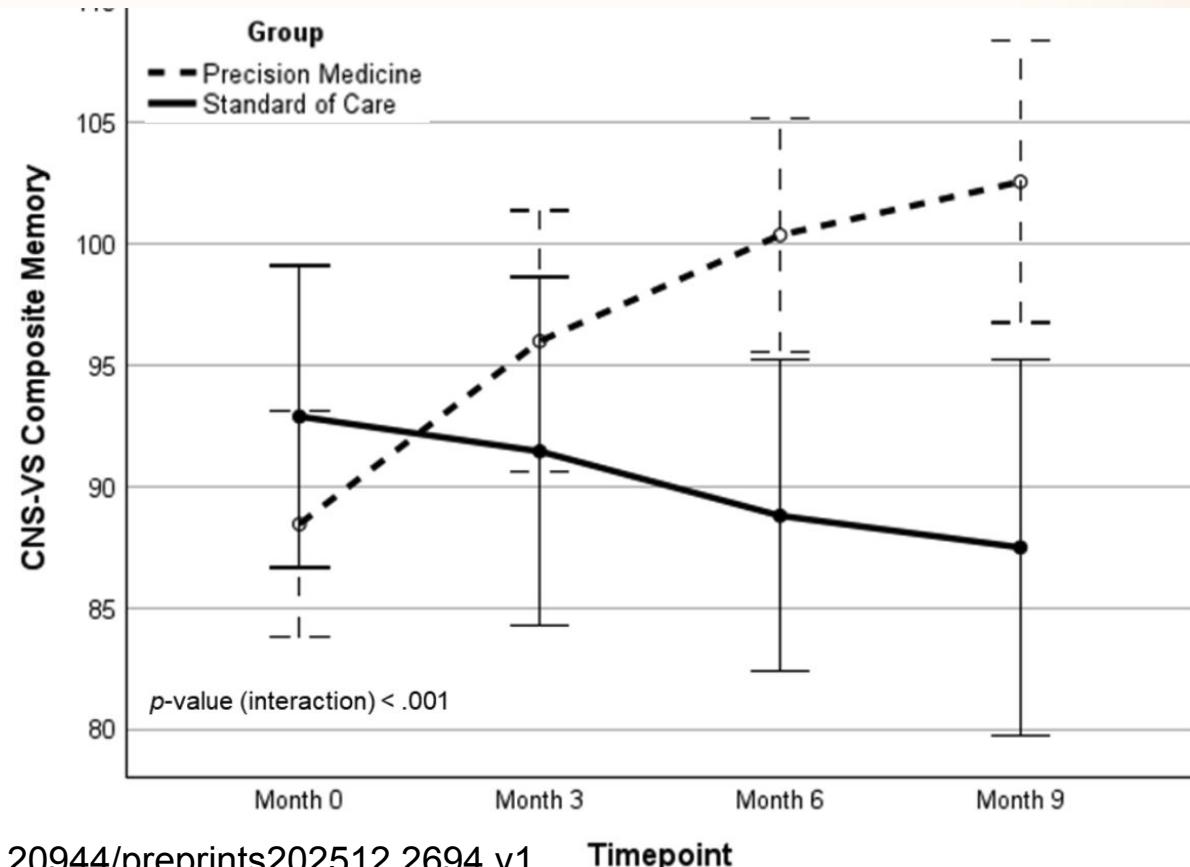


- Stop the keto diet (harder to do while traveling and just maintain a mediterranean low carb diet)- not necessary for his genomic profile, no ApoE4 or mitochondrial issues
- Pycnogenol and lumbrokinase- to address clotting tendency
- Androgel- to address an enzyme that converts testosterone to estradiol
- B12- poor transport of B12 to the brain
- Liothyronine- poor conversion of inactive thyroid hormone to the active form

OK to stop the approximately 12 other things he had been taking

Lenny did great with complete
resolution of his cognitive decline

Evanthea Trial- precision medicine



doi: 10.20944/preprints202512.2694.v1

THE MOMENT ALZHEIMER'S RESEARCH SHIFTED – AND WHAT IT MEANS FOR YOU

Anna Sattah, MD



Thursday, January 29th
7:00PM (EST) via ZOOM

