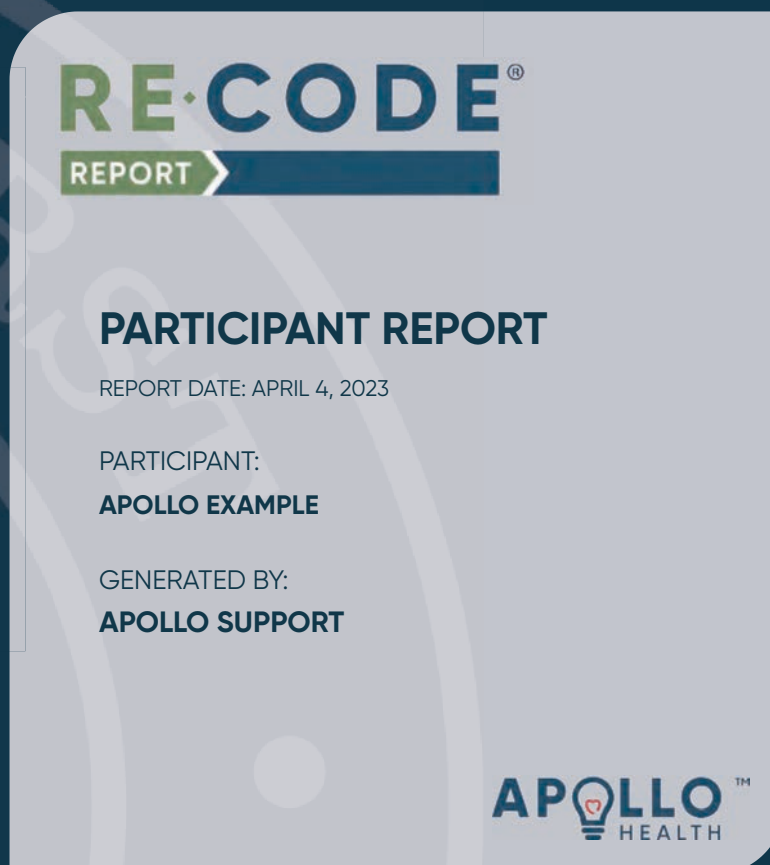


Report Cover


ReCODE Reports™ are generated with a personalized cover page that includes the report date, participant name, practitioner name, and name of the individual who generated the report.



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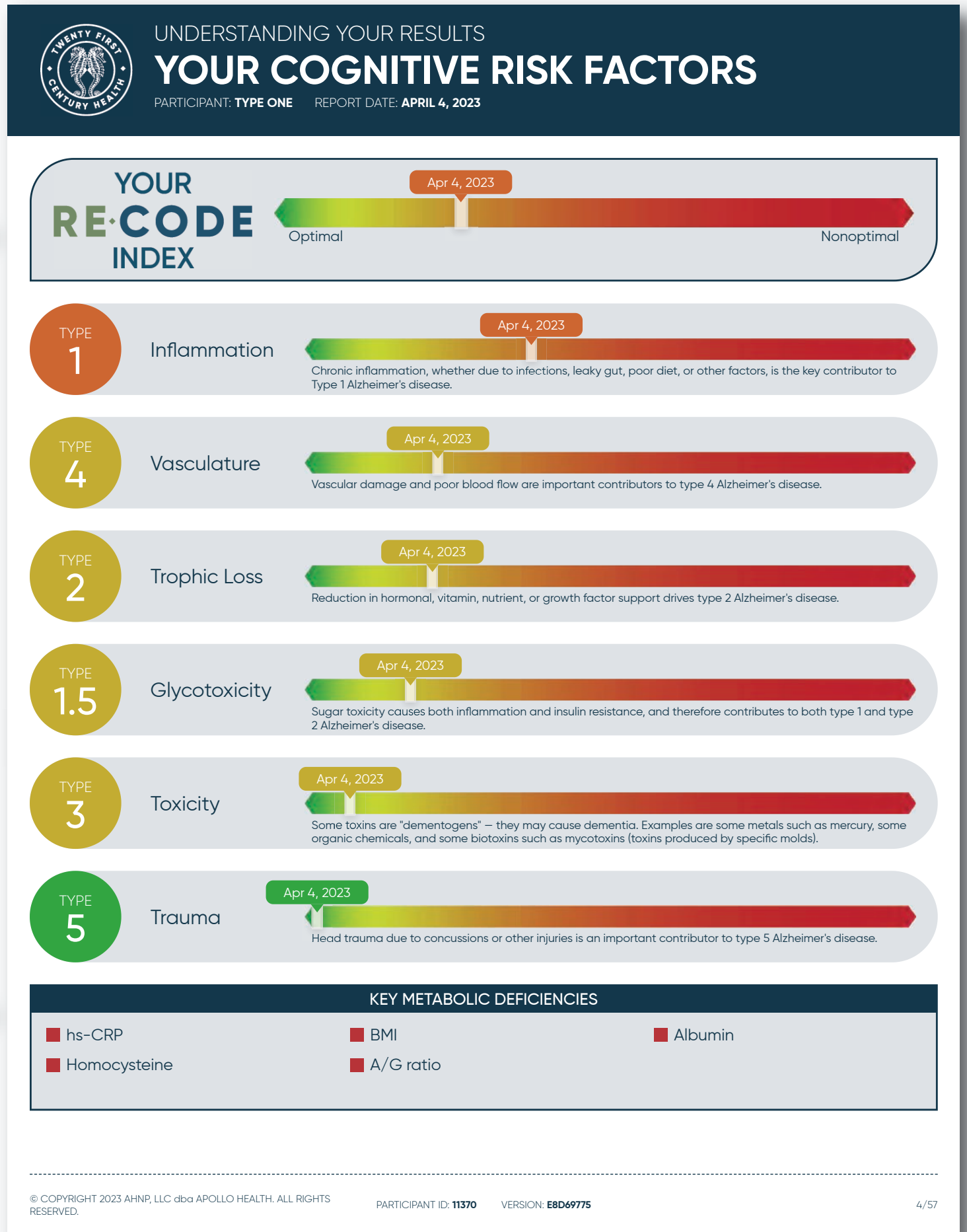
All ReCODE Reports™ include a table of contents that can quickly navigate to specific sections of the report by clicking the page title or page number.

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Your Risk Factors

Your ReCODE index provides a snapshot of the participant's current state of cognitive decline and provides a summarized index of his/her current metabolic state made of all six Alzheimer's subtypes. The index provides a visual goal to move each thermometer to an optimal state.

The goal is not simply to normalize metabolic parameters, but rather to optimize them. This personalized list highlights the participant's primary areas of concern.



KEY METABOLIC DEFICIENCIES

■ hs-CRP	■ BMI	■ Albumin
■ Homocysteine	■ A/G ratio	

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The Six Subtypes

The ReCODE Report measures the level or risk and contributors for all six subtypes. Each page provides a description and contributors of each subtype along with a personalized analysis based on genetic and blood results.



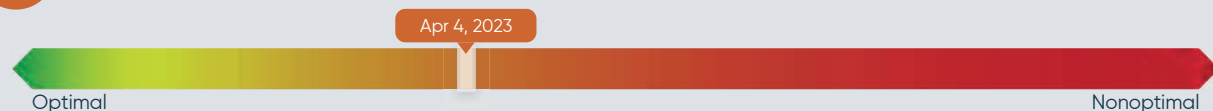
UNDERSTANDING YOUR RESULTS

THE SIX TYPES OF ALZHEIMER'S DISEASE

PARTICIPANT: TYPE ONE REPORT DATE: APRIL 4, 2023

ALZHEIMER'S DISEASE

TYPE 1 INFLAMMATION



Chronic inflammation, whether due to infections, leaky gut, poor diet, or other factors, is the key contributor to Type 1 Alzheimer's disease.

This type is associated with inflammatory markers such as hs-CRP, and the inflammation may be due to infections (often unrecognized), leaky gut, suboptimal diet, or other factors. Risk for type 1 is increased by ApoE4, chronic infections, trans fats, damage to your gut microbiome, and other factors.

Let's see how you are doing with risk for inflammatory Alzheimer's, so that we can minimize this risk.

TYPE 1 Your Results

Your hs-CRP (high-sensitivity C-reactive protein, which is a measure of inflammation) was 2.5 mg/l, which is high – not terribly high, but we can help you make it better – the goal is to see it at 0.7 or lower. This is important, because millions of people suffer from chronic inflammation, and this takes a toll, accelerating our aging (which is often called "inflamm-aging" because inflammation is such a common and important feature of aging), increasing risk for Alzheimer's, and increasing risk for other chronic illnesses such as vascular disease, arthritis, and cancer. Therefore, we recommend that you talk with your practitioner about what may be causing this inflammation – it could be coming from "leaky gut," from specific pathogenic bacteria in your mouth (from gum disease, for example), from a poor diet or one that includes foods that do not agree with you, from chronic sinus infection, from an undiagnosed ongoing infection, or from other sources. Let's get this figured out and dealt with in order to keep the best chance reversing your cognitive decline.

The information in the treatment section will help you to bring your inflammation down and keep it low for years to come, thus helping to reverse your cognitive decline. This includes keeping your gut healthy – avoiding "leaky gut" – keeping your oral health good (pathogens from dental disease, such as *P. gingivalis*, increase risk for Alzheimer's disease), treating pathogens you may get from ticks (such as *Borrelia* or *Ehrlichia*), treating viral outbreaks such as Herpes, and avoiding exposure to inflammatory toxins such as those from specific molds. The "B7" section offers the best approaches for staying healthy and avoiding chronic inflammation and its associated risks.

Although not quite as predictive of inflammation-related disease as hs-CRP, there are other markers that complement hs-CRP, such as A/G ratio (albumin to globulin ratio) and homocysteine. **Your A/G ratio was 1.4**, and the goal is to see this at 1.8 or above. High homocysteine may also be associated with inflammation, although it is most reflective of methylation (which is important in many processes, including detoxification pathways). The goal for homocysteine is 7 uM or lower. **Your homocysteine was 9.5 uM.**

In addition to these laboratory tests, your genetics can also influence your risk for Alzheimer's disease. The great news is that this can be countered very successfully. As an example, regular exercise reduces the risk of the most common genetic risk factor, which is ApoE4, back to normal.

So, let's look at your most important genetic risk factor: ApoE4. Each of us may have 0, 1, or 2 copies of ApoE4, and this is associated with low, moderate, or high risk for Alzheimer's disease. **Please remember that none of these guarantees that you won't get Alzheimer's or that you will, so even if you have 2 copies, being on a reversal**

decline. Indeed, there is a wonderful site – and, all ApoE4+, share information and share their ReCODE or PreCODE.

ate risk. There are 75 million Americans with 1 copy of 11 million Americans – with zero copies. Our goal is to automatic individuals on a prevention program so

Where Do I Start?

ReCODE reports include a personalized starting point for all individuals on the protocol.



UNDERSTANDING YOUR RESULTS

WHERE DO I START?

PARTICIPANT: TYPE ONE REPORT DATE: APRIL 4, 2023

STEP
1

Your Medical Questionnaire results are missing some answers required to determine nutritional and fasting recommendations. We recommend answering the following questions: Height, Weight, and Wrist Size.

STEP
2

Resolve ongoing inflammation, and prevent new inflammation.

Chronic inflammation is a critical contributor to Alzheimer's disease, and your genetic and biochemical profile is compatible with that finding. Preventing inflammation is important, but first the ongoing chronic inflammation must be resolved. Specialized pro-resolving mediators (SPM) are used for this purpose, followed by inhibitors of new inflammation, such as curcumin and specific anti-inflammatory nutrients. These are included in the synaptic support section of your program. Your profile also indicates leakiness of the GI tract ("leaky gut"), and therefore your program includes healing the gut, preventing further leak.

STEP
3

Enhance methylation to reduce homocysteine.

Homocysteine is an important contributor to Alzheimer's disease and vascular inflammation, and reducing your homocysteine is one of the key goals of your program. This is accomplished with the synaptic support items listed in your program.

STEP
4

Heal leaky gut.

Having a leaky gut is turning out to be very common, and to be an important contributor to chronic inflammation, which in turn contributes to cognitive decline. Therefore, healing your leaky gut is critical for preventing and reversing cognitive decline, and a critical part of your program includes gut healing. There are several approaches to healing a leaky gut, such as DGL (deglycyrrhizinated licorice), butyrate, L-glutamine, slippery elm, bone broth, or colostrum.

STEP
5

Minimize exposure to dementogens.

There are many contributors to cognitive decline: just as we are exposed to many carcinogens (cancer-causing chemicals), we are also exposed to dementogens, such as specific toxic metals, organic solvents, pesticides, mycotoxins (toxins produced by mold species), and some medications, among others. Proton pump inhibitors (PPIs), often taken for reflux (GERD, or gastroesophageal reflux disorder), may reduce our absorption of critical nutrients for brain function, such as zinc and vitamin B12. Statins may reduce cholesterol, which is critical for brain structure, too far. Anesthetic agents, some antidepressants, some antihistamines, benzodiazepines, some pain killers (like opiates), and anticonvulsants (seizure drugs), are all drugs that affect cognition and can contribute to reduced cognitive ability.

Understanding Your Results: B7

The ReCODE Report provides a detailed outline of seven foundational strategies that work together to create neuroplasticity, called the Bredesen Seven or B7.



UNDERSTANDING YOUR RESULTS YOUR RECODE JOURNEY

PARTICIPANT: TYPE ONE REPORT DATE: APRIL 4, 2023

Introducing the Bredesen 7

The best way to reverse cognitive decline is to combine the personalized aspects of your ReCODE Report, which has identified potential future drivers of cognitive decline, with the Bredesen Seven (or B7), the seven foundational strategies that work together to create neuroplasticity – the ability of the brain to establish, maintain, prune, and modify synaptic connections. Each of the strategies alone has the ability to promote neuroplasticity, but when practiced together they create powerful synergy. More extensive information on the B7 can be found in the guides to which you have access on apollohealthco.com.



Nutrition plays a remarkably important role in the reversal of cognitive decline. The goal is to utilize nutrition to support brain health by creating insulin sensitivity, increasing energy (via ketosis), reducing inflammation, improving vascular health, promoting autophagy, and more.



Exercise has many mechanisms by which it supports cognition. It increases your brain-derived neurotrophic factor (BDNF) and increases cerebral blood flow and oxygenation. Additionally, it reduces overall stress, optimizes body mass index (BMI), improves insulin sensitivity, and optimizes overall brain and body physiology in numerous ways.



Sleep enhances our ability to focus, learn, and memorize. It is critical that oxygenation be appropriate during sleep (96-98% saturation is optimal) with the overall goal of 7-8 hours of quality restorative sleep each night.



Stress, especially chronic stress, can be a key contributor to cognitive decline. While stress is unavoidable, you can learn to control your reaction to it by adopting daily stress management practices. Additionally, consider including mindfulness – the ability to be fully present in a non-judgmental manner – to aid in the incorporation of the B7 strategies.



Brain Stimulation becomes even more important as we age to create neuroplasticity – the ability of the brain to establish, maintain, prune, and modify synaptic connections. This remodeling of our brains occurs throughout our lives in response to social and mental stimuli.



Detox is a multi-step process that involves avoiding “dementogens,” chemical agents that contribute to Alzheimer’s disease, as well as identifying and addressing current exposures while optimizing detoxification pathways to create resilience.



Supplements can support numerous mechanisms to optimize your biochemistry. While they are “supplemental” to the overall program, they can be an important contributor to healing, especially if you’re suffering from a specific nutritional deficiency that affects your cognitive health.



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Your Suggested Plan: Supplements & Personalized Alternatives

YOUR SUGGESTED PLAN

PARTICIPANT: TYPE ONE
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7. SUPPLEMENTS



Each part of the "B7" is designed to improve the neurochemistry that supports the production, maintenance, and optimal function of synapses, the critical connections in our brains. If we optimize the various parameters in the B7, we should be able to make and maintain these synapses for decades to come. As you've already read, diet, exercise, sleep, stress management, brain stimulation, and detoxification are all important and powerful. Adding to these is supplementation, and while the effective use of supplements is critical for best outcomes, please remember these are, by definition, supplementary. Thus they are meant to be used with the other members of the B7, and in such a setting, they provide effective synaptic support.

In order to keep pill and capsule numbers to a minimum, we have worked with LifeSeasons to synthesize a supplement solution for you. We suggest individuals on the protocol to include the ReCODE Core Kit in their supplement regimen. The ReCODE Core Kit includes a Morning Balance, Evening Balance, Daily Multivitamin, Daily Probiotics, Daily OMEGA-3, and Daily Antioxidants. In addition, depending on your subtyping, we recommend additional subtype formulas in your personalized protocol (below).

If you are currently taking medications such as blood thinners, please consult with your physician before starting supplements.

ReCODE Core Kit

ReCODE Protocol Daily Balance

Suggested Use:

- Daily Morning Balance: in the morning pour 1 stick pack into 8 oz of water and stir
- Daily Evening Balance: in the evening pour 1 stick pack into 8 oz of water and stir

ReCODE Morning Balance™ contains ingredients that have been shown to promote cognition and memory by providing signaling and trophic support. Exogenous ketones are included to fuel energy production and endurance. Soluble dietary fiber and probiotics help sustain gut health and immunity. Various nutrients support a healthy vascular system and natural energy.

ReCODE Evening Balance contains ingredients that have been shown to reduce stress and promote sleep, cognition, and memory by providing signaling and trophic support. It is designed to support the brain's neurotransmission systems and to reduce stress and promote sleep, while helping to sustain gut health and immunity.



PLEASE NOTE Start slowly and work up to the full dosage in two weeks.

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Each report includes a personalized list of recommended supplements by LifeSeasons. For individuals who would like to take their preferred brand of supplements or do not have access to the LifeSeasons formulation may purchase the supplements listed in the Personalized Supplement Alternatives.

YOUR SUGGESTED PLAN

PARTICIPANT: TYPE ONE
REPORT DATE: APRIL 4, 2023

Personalized Supplement Alternatives

For individuals who would like to take their preferred brand of supplements or do not have access to the ReCODE formulation, you may purchase the list of personalized supplements listed below. **Note: Due to formulation requirements and alternative ingredients, some supplements may not match completely with the ingredients in LifeSeasons suggested formulation.**

- | | |
|---|--|
| <input type="checkbox"/> Ashwagandha (<i>Withania somnifera</i>) 500 mg with meals | <input type="checkbox"/> Methyl-folate 2 mg each day |
| <input type="checkbox"/> Bacopa monnieri 350 mg with meals | <input type="checkbox"/> Methylcobalamin (methyl-B12) 1 mg once per day |
| <input type="checkbox"/> Citicoline 500 mg once or twice per day | <input type="checkbox"/> Mixed tocopherols and tocotrienols 400 IU once per day |
| <input type="checkbox"/> CoQ (Ubiquinol) 200 mg as ubiquinol | <input type="checkbox"/> Nicotinamide riboside 100 mg 2-3 times per day |
| <input type="checkbox"/> Curcumin 1 g | <input type="checkbox"/> Omega-3 fats (e.g., DHA and EPA) 1 g once or twice per day |
| To optimize absorption, take this on empty stomach or with good fats (such as avocado, nuts, or olive oil). | <input type="checkbox"/> PQQ (pyrroloquinoline quinone) 10 mg once or twice per day |
| <input type="checkbox"/> Gotu kola 500 mg once or twice per day with meals | <input type="checkbox"/> Probiotics and prebiotics once per day |
| <input type="checkbox"/> MCT oil 1 tbsp | <input type="checkbox"/> Pyridoxal 5-phosphate (P5P) 20 mg once per day |
| Start at one teaspoon and work up over 1 week, in order to avoid diarrhea. | <input type="checkbox"/> Resveratrol 100 mg once per day |
| <input type="checkbox"/> Magnesium threonate 2 g | <input type="checkbox"/> Specialized pro-resolving mediators (e.g., SPM Active) twice per day, for 1 month |
| 2 grams of magnesium threonate contains 144 mg of magnesium. Many prefer to take at night since it may cause some drowsiness. | <input type="checkbox"/> Thiamine (vitamin B1) 50 mg |
| | <input type="checkbox"/> Whole coffee fruit extract (WCFFE) 200 mg each morning |

For a detailed description of each supplement, see our guide on supplements [Supplements: Are Supplemental](#).

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Your Suggested Plan: Hormone Therapy

The Bredesen Protocol incorporates physician-supported hormone therapy to achieve optimal hormone levels to support brain structure and function. Note, bio-identical hormone replacement therapies should preferably be conducted with a physician specialized in bio-identical hormone replacement.



YOUR SUGGESTED PLAN

PARTICIPANT: TYPE ONE
REPORT DATE: April 4, 2023

HORMONE THERAPY

Please consult with your physician, preferably an expert in bio-identical hormone replacement, on possible hormone replacement therapies.

- Replacement should be bio-identical.
- **Target progesterone level for 2-20 ng/ml.**
Progesterone is usually started at 100mg orally each night.
- **Target estradiol level is age dependent: for post-menopausal on BHRT, target 50-100; pre-menopausal target 100-350.**
Estradiol should not be taken orally. Best is trans-vaginal or transdermal, following levels. Estradiol can be with or without estriol (Estradiol + estriol is best). Important to monitor carefully for side effects by doing regular mammography and Ob-Gyn examinations.
- Retest **DHEA-Sulfate** in 3-6 months.
- Talk with practitioner about **Thyroid** (Armour or NP Thyroid or Westroid or Naturethroid) 60mg; Check basal body temperature or Thyroflex.

Avoid sudden withdrawal of HRT.
When planning withdrawal, do so very gradually, over 6-12 months.



Why This is Important

Optimal hormone levels support brain structure and function, and enhance the ability to make and store new memories, as well as inhibiting degeneration.

Your Suggested Plan: Recommended Reading

Dr. Bredesen and the Apollo Health medical team have curated a specific list of books that can be a valuable reference to support cognition.

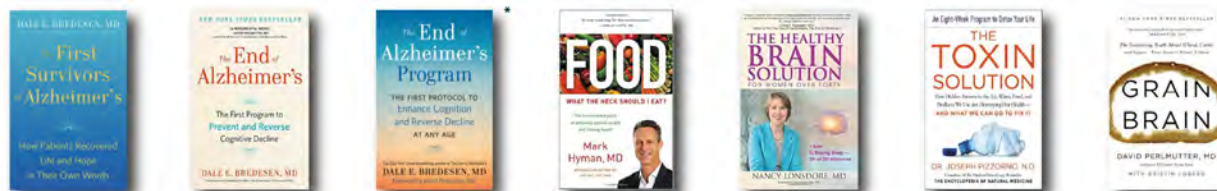


YOUR SUGGESTED PLAN

PARTICIPANT: TYPE ONE
REPORT DATE: APRIL 4, 2023

RECOMMENDED READING

Reversing cognitive decline is now possible – it is happening in thousands of people every day – and this goes hand in hand with optimizing cognition. A finely-tuned brain will bring you all sorts of dividends for many years to come, and this simply means getting several different systems to work together as a network – from nutrition to exercise to sleep to growth factors to brain training, and so on. The books listed here are excellent, readable references to support cognition for decades to come. In addition to general references for cognition, we list specific titles for those who are at risk for a specific subtype of cognitive decline, such as toxic (type 3) or vascular (type 4).



- **The First Survivors of Alzheimer's** by Dr. Dale Bredesen
- **The End of Alzheimer's** by Dr. Dale Bredesen
- **The End of Alzheimer's Program** by Dr. Dale Bredesen (with Julie Gregory and Dr. Aida Lasheen Bredesen)
- **The UltraMind Solution** by Dr. Mark Hyman
- **FOOD: What the Heck Should I Eat?** by Dr. Mark Hyman
- **FOOD: What the Heck Should I Cook?** by Dr. Mark Hyman
- **Grain Brain** by Dr. David Perlmutter
- **Brain Maker** by Dr. David Perlmutter
- **The Brain Body Diet** by Dr. Sara Gottfried
- **The Healthy Brain Solution for Women Over Forty** by Dr. Nancy Lonsdorf
- **Fat for Fuel** by Dr. Joseph Mercola
- **KetoFast** by Dr. Joseph Mercola
- **The Longevity Diet** by Dr. Valter Longo (Keep the overall concept of KetoFLEX 12/3 in mind.)
- **Ketotarian** by Dr. Will Cole
- **31-Day Food Revolution** by Ocean Robbins (Keep the overall concept of KetoFLEX 12/3 in mind.)
- **How Not to Die** by Michael Greger (Keep the overall concept of KetoFLEX 12/3 in mind.)
- **Super Immunity** by Joel Fuhrman (Keep the overall concept of KetoFLEX 12/3 in mind.)

Report Data

If recommended tests are incomplete, missing tests will be itemized and suggested.

Each report will be provided with the next suggested testing interval.



REPORT DATA

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You and your practitioner may also wish to consider the following tests:

- IL-6 Serum
- Free T3 Serum
- Reverse T3 Serum
- Testosterone Serum
- Free Testosterone Serum
- DHEA-Sulfate Serum
- Cortisol Serum
- Ceruloplasmin Serum
- Mercury %ile
- Blood Mercury
- Lead Whole Blood
- Cadmium Whole Blood
- Arsenic Whole Blood
- C4A Plasma
- TGF-beta-1
- MMP9 Serum
- MSH Plasma
- LDL Particle Number
- Glutathione (uM)
- Vitamin E Serum
- Selenium
- Vitamin C
- Height
- Weight
- Wrist Size
- Neuropsych Executive Function %ile
- Folate Serum
- Vitamin B6 Plasma
- Magnesium Serum
- Estradiol Serum
- Progesterone Serum
- Free T4 Serum



REMINDER

YOUR NEXT LAB TESTS SHOULD BE COMPLETED AFTER SIX MONTHS

2023-10-04

The following pages include all of your lab results, genetic results, and assessments utilized to generate your ReCODE Report. If available, each result will include a color code indicating whether the result is within the ReCODE Target range, the raw value with units, reported date of the result, and the source of the result.

Target ranges are color coded Green, Gold, and Red. Green results meet the ReCODE Target range, Gold results are within the normal reference range defined by the Apollo Health lab, and Red results are outside of normal range. Please note, these ranges and values may not match your preferred lab's reference ranges. If you are not using the Apollo Health lab and the lab test is significantly different, the ranges and ReCODE algorithm may be inaccurate, so it is important to make sure that compatible lab tests are used.

Please note that best outcomes require bringing lab values not simply to the minimum "normal" levels, but to optimal functional levels—this is well documented, for example, with homocysteine and B12. Please consult with a trained ReCODE Practitioner as these defined ranges are set as guidelines.

Your results may be sourced from various data sources, which may include Apollo Health's partnered lab, trained ReCODE Practitioners, or conducted assessments. Each result will be labeled with a data source, if available.

MEDICAL ADVICE, DIAGNOSIS AND TREATMENT BASED ON ANY REPORTED TARGET RANGES AND VALUES ARE AT THE SOLE DISCRETION OF A TRAINED RECODE PRACTITIONER OR YOUR PHYSICIAN.

Please consult with your trained ReCODE Practitioner regarding retesting procedures.

Raw Results

The Raw Results section lists and categorizes all of the individual's lab results, genetic tests, and health questionnaire responses. Each result will include the value, protocol recommended range, the date the result was recorded, and the source of the result. In addition, each result will be highlighted with a colored indicator identifying optimal, suboptimal, or abnormal results.

RAW RESULTS

PARTICIPANT: TYPE ONE
REPORT DATE: APRIL 4, 2023

LEGEND:
■ OPTIMAL FOR RECODE - SUBOPTIMAL - ABNORMAL
▲ VALUES IMPROVED TO OPTIMAL RANGE
▲ VALUES IMPROVED BUT STILL NEED IMPROVEMENT

CONSULT YOUR PHYSICIAN WITH ANY QUESTIONS

TEST	REPORT VALUE	TARGET RANGES	DATE	SOURCE
General Health				
Age	68			
Sex	Male		2023-04-04	Support
Basal Body Temperature	98.4 deg. F		2023-04-04	Support
BMI	● 25.5	18 - 25	2023-04-04	Support
Comment: Body mass index = (703 x weight in pounds)/ (height in inches squared)				
Systolic Blood Pressure	130		2023-04-04	Support
Diastolic Blood Pressure	80		2023-04-04	Support
Assessments				
AQ-21 score	● 3		2023-04-04	Support
MoCA score	● 27	28 - 30	2023-04-04	Support
Comment: 26-30 considered "normal" but most normal 28-30; MCI 19-26; AD 0-22 (19-22, depends on ADLs)				

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