

Optimizing Brain Health: Six Key Biomarkers

A 6-Hour Home Study Program for Health Professionals

Biomarkers are measurable indicators of normal biologic processes, pathogenic processes, or responses to a therapeutic intervention. Typically determined from analyses of blood or saliva, they include C-reactive protein, homocysteine, hemoglobin A1c, vitamin D, the omega-3 index and, DNA analysis.

In this introductory program, learn about the key biomarkers associated with optimal brain health, resources for beginning self-directed testing, and nutritional and lifestyle-based strategies for optimizing levels of biomarkers.

Participants completing this non-technical program should be able to:

1. Identify the basic physiologic roles of six key biomarkers associated with optimal brain function.
2. Recognize common causes leading to abnormal levels of these biomarkers.
3. Describe the brain disorders associated with abnormal levels of these biomarkers.
4. Identify resources for self-directed testing.
5. Describe lifestyle-based strategies such as exercise, diet, and sleep for optimizing levels of these biomarkers.
6. Identify how these biomarkers affect key neurotransmitters and hormones including cortisol.



NURSES: Institute for Brain Potential (IBP) is accredited as a provider of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation. IBP is approved as a provider of continuing education by the California Board of Registered Nursing, Provider #CEP13896, and Florida Board of Nursing. This program provides 6 contact hours.



COUNSELORS, PSYCHOLOGISTS, SOCIAL WORKERS & MFTs: Institute for Brain Potential is approved by the American Psychological Association to sponsor continuing education for psychologists. Institute for Brain Potential maintains responsibility for this program and its content. This program provides 6 CE credit.



Institute for Brain Potential, provider 1160, is approved as a provider for continuing education by the Association of Social Work Boards (ASWB), 400 South Ridge Parkway, Suite B, Culpeper, VA 22701. www.aswb.org. Social workers should contact their regulatory board to determine course approval. Social workers will receive 6 continuing education clock hours for participating in this course.

Institute for Brain Potential is approved as a provider of CE by Florida Board of Clinical Social Work, MFT and Mental Health Counseling, by Florida Board of Psychology, by Ohio CSWMFT Board, Provider #RCST030801, by Illinois Department of Professional Regulation MFT CE Sponsor Program, Sponsor #168.000183, and by Texas State Board of Examiners of Marriage & Family Therapists, Provider #830. Institute for Brain Potential (IBP), SW CPE is recognized by the New York State Education Department's State Board for Social Work as an approved provider of continuing education for licensed social workers #0341. This program provides 6 contact hours.



SUBSTANCE ABUSE PROFESSIONALS: Institute for Brain Potential is approved by the NAADAC Approved Education Provider Program, Provider #102949. Institute for Brain Potential is approved by CCAPP-EI, Provider Number 45-09-128-1217. This program provides 6 CEHs



PHARMACISTS AND PHARMACY TECHNICIANS: Institute for Brain Potential is accredited by the Accreditation Council for Pharmacy Education as a provider of continuing pharmacy education. This knowledge-based activity is designated for 6 contact hours (0.6 CEUs). UANs: 0492-0000-15-033-H04-P and 0492-0000-15-033-H04-T. This program has been pre-approved by the Florida Board of Pharmacy for 6 hours of continuing education credit.



DENTAL PROFESSIONALS: Institute for Brain Potential is designated as an Approved PACE Program Provider by the Academy of General Dentistry (AGD). The formal continuing dental education programs of this provider are accepted by the AGD for Fellowship/Mastership and membership maintenance credit. Approval does not imply acceptance by a state or provincial board of dentistry or AGD endorsement. The current term of approval extends from 12/01/14 - 11/30/18. Provider ID# 312413. Subject Code: 557. Institute for Brain Potential, provider RP-4261, is authorized to confer continuing dental education for Dentists, Dental Hygienists and Dental Assistants by the Dental Board of California. Institute for Brain Potential is an approved provider with the Florida Board of Dentistry. This program provides 6 hours of CE credit.



OCCUPATIONAL THERAPISTS: Institute for Brain Potential is an American Occupational Therapy Association (AOTA) Approved Provider, #6050. The assignment of AOTA CEUs does not imply endorsement of specific course content, products, or clinical procedures by AOTA. This program provides 0.6 AOTA CEUs or 6 contact hours. Content Focus: Domain of OT (Performance Patterns) and Occupational Therapy Process (Outcomes). This course is approved by the Florida Board of Occupational Therapy for 6 hours of credit.

PHYSICAL THERAPISTS: Institute for Brain Potential is approved as a provider of the physical therapy continuing education by the Physical Therapy Board of California. Institute for Brain Potential is an Illinois Department of Professional Regulation Approved CE Sponsor for PTs and PTAs, #216.000210. Institute for Brain Potential is recognized by the New York State Education Department's State Board of Physical Therapy as an approved provider of physical therapy continuing education. This program provides 6 contact hours of CE credit.

MASSAGE THERAPISTS: Institute for Brain Potential is approved as provider of continuing education by the Illinois Department of Professional Regulation, #245.000045, and by the Florida Board of Massage Therapy. This program provides 6 CE hours. This program counts as 'General' hours in Florida.

SPEECH-LANGUAGE PATHOLOGISTS: Institute for Brain Potential is an approved provider by the California Speech-Language Pathology and Audiology Board (SLPAB), # PDP247. This program provides 6 CE hours

RESPIRATORY CARE PROFESSIONALS: RCPs in New York receive 6 hours of Category III credit through IBP's accreditation by the ANCC. IBP is approved by the CA Board of Registered Nursing, #CEP13896, and as such, its CE offerings are accepted by the Respiratory Care Board of CA. This program provides 6 CE hours.



EDUCATORS: Participants completing this program will receive 7.5 clock hours of professional development credit through a cosponsorship agreement between Alliant International University and IBP. Alliant International University's graduate programs are accredited by the Accrediting Commission of Senior Colleges and Universities of the Western Association of Schools and Colleges. Please contact your school district if you need prior approval for this program.

Hemoglobin A1c and Premature Brain Aging

- Mood Symptoms
- Advanced Glycation End Products (AGEs) and A1c
- Nutritional Interventions
- Lifestyle Interventions
- Testing Guidelines

C-Reactive Protein (CRP) and Chronic Inflammation

- Brain Inflammation
- Nutritional Interventions
- Mindfulness and Stress
- Exercise
- Chronic Inflammation
- Sleep

Homocysteine and Early Memory Loss

- Cardiovascular and Neurovascular Disease
- B-Vitamins and Neurotransmitter Synthesis
- MTHFR Polymorphism
- Nutritional Interventions

Vitamin D: More Than a Sunshine Vitamin

- Populations at Risk
- Optimal Levels
- Vitamin D and Depression
- Vitamin D and Dementia
- Vitamin D Supplementation

Omega-3 Fatty Acids: The Pros and Cons of Supplementation

- Omega-3s and Brain Function
- Omega-3s and Brain Volume
- Guidelines for Supplementation
- Omega-3 vs. Omega-6

Genomic (DNA) Analysis: How Your Environment and Lifestyle Affect Your Genes

- Genomic Analysis
- Genetic Variants
- Diet and Exercise
- Reward Pathways

ABOUT THE INSTRUCTOR



Michael E. Lara, M.D., a clinical neuroscientist, was educated at Harvard, UCLA and Stanford. Dr. Lara is recognized for his evidence-based approaches to treating the whole person including lifestyle prescriptions that include nutrition and exercise. Dr. Lara maintains a private medical practice in Belmont, CA and is board-certified in Psychiatry and Neurology.

An outstanding, insightful and inspiring presenter with a talent for simplifying complex subjects, Dr. Lara speaks frequently at health-related conferences throughout North America. Health professionals commend his masterful presentations for communicating key discoveries and practical strategies with clarity, compassion and wisdom.