

# Psychobiology of Fatigue: The Stress Connection

## A 6-Hour Home Study Program for Health Professionals

*This innovative program reviews the mind-body connection underlying common fatigue-related conditions, the critical role of inflammation, stress, mood, anxiety, pain, and sleep. Advances in reducing fatigue and increasing energy are presented.*

*Throughout the program, Dr. Sieber will demonstrate practical and evidence-based approaches to reducing fatigue.*

Participants completing the program should be able to:

1. Discuss how psychological stress contributes to fatigue including the role of inflammation, mood, anxiety, pain, and sleep.
2. Compare and contrast fatigue as it occurs in major depression, chronic fatigue, psycho-physiological insomnia, and profession-related fatigue.
3. Outline an approach involving psychological modalities for treating a selected fatigue-related disorder.
4. Outline an approach involving lifestyle factors, such as physical activity, conscientious eating, restorative sleep, and meditative traditions for managing a fatigue-related disorder.



**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 has been approved by NBCC as an Approved Continuing Education Provider, ACEP No. 6342. Programs that do not qualify for NBCC credit are clearly identified. Institute for Brain Potential is solely responsible for all aspects of the programs. This program provides 6 clock hours.



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.



**ACE** Institute for Brain Potential, ACE Approval Number: 1160, is approved as a provider for social work continuing education by the Association of Social Work Boards (ASWB) through the Approved Continuing Education (ACE) Program. Institute for Brain Potential maintains responsibility for the program. ASWB Approval Period: November 11, 2017 – November 11, 2020. Social workers should contact their regulatory board to determine course approval for continuing education credits. Social workers participating in this course will receive 6 clinical continuing education clock hours. Social Work Practice Level: Intermediate.

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. Institute for Brain Potential (IBP) is recognized by the **New York State Education Department's State Board for Mental Health Practitioners** as an approved provider of continuing education for licensed mental health counselors. #MHC-0134. Institute for Brain Potential (IBP) is recognized by the **New York State Education Department's State Board for Mental Health Practitioners** as an approved provider of continuing education for licensed marriage and family therapists. #MFT-0068. 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 4S-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: 0492-0000-18-002-H04-P and 0492-0000-18-002-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. This program provides 6 contact hours of CE credit.

**MESSAGE 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



**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.

## Understanding the Psychobiology of Fatigue

- The Stress-Cortisol Connection
- The Cortisol-Inflammation Connection
- The Inflammation-Brain-Body Connection
  - Neuroinflammation
  - Arterial Inflammation
  - Periodontal Inflammation
  - GI Tract Inflammation
- The Inflammation-Pain-Mood Connection
- The Pain-Mood-Sleep Connection
- The Sleep-Immune-Fatigue Connection
- Reversing the Vicious Cycle Linking Stress, Inflammation, Mood-Anxiety-Pain and Sleep

## Understanding Selected Fatigue Syndromes

- Major Depression
- Chronic Fatigue Syndrome
- Psychophysiological Insomnia
- Profession-Related Fatigue

## Evidence-Based Approaches for Reducing Fatigue

- Addressing Cognitive Factors
- Addressing Interpersonal Factors
- Motivational Interviewing
- Addressing Physical Activity
  - Mood Elevation
  - Stress Resilience
  - Sleep Depth
  - Pain Relief
  - Reduced Inflammation
- Addressing Positive Psychology
- Conscientious Eating
- Prioritizing Restorative Sleep
- Calming Traditions

## ABOUT THE INSTRUCTOR



*Bill Sieber, Ph.D., Clinical Professor in the Departments of Psychiatry and in Family Medicine at the University of California, San Diego, directs their Collaborative Care Program. With over 25 years of clinical, research, and teaching experience, Dr. Sieber is an expert in the behavioral management of disorders of anxiety, mood and fatigue. He blends evidence-based research with practical strategies to directly enhance the wellbeing of health professionals and to help calm their clients.*

*An outstanding and dedicated instructor, Dr. Sieber is recognized for excellent teaching at UCSD School of Medicine and for developing national training programs. Health professionals commend his clinical wisdom, wit, and warmth.*