CHRONIC PAIN SUITE
Richard Sherman, Ph.D. & Pedro Teixeira, PT

Limited Edition Software Suite

The Chronic Pain suite was designed by Pedro Teixeira, one of the BFE's senior software developers and instructors, who worked in close collaboration with Richard Sherman, PhD, to ensure the proper implementation of his protocols. Dr. Sherman has been a psychophysiologist in the field of chronic pain for over 30 years, with many grants and over a hundred publications to his name. Many protocols of this software are based on Dr. Sherman's book **Pain Assessment and Intervention from a Psychophysiological Perspective (2012)**, which references biofeedback and pain management technique based on results of numerous studies by a variety of authors published in peer reviewed journals.

The software is a tool for health professionals to provide three different assessment techniques and five treatment approaches for dealing with general chronic pain, as well as phantom pain, using different biofeedback measures. The suite includes:

- Three assessments protocols that each use different effective sensor arrangements.
    - Psychophysiological Stress Profile
    - Pain Assessment
    - Cramping & Burning Phantom Pain Assessment
- Five biofeedback training protocols which each use different effective sensor arrangements.
    - Burning Phantom Pain Treatment
    - Chronic Pain (Graduation Treatment)
    - Chronic Pain Black Spot Animation (Graduation Treatment)
    - Cramping & Burning Phantom Pain Biofeedback
    - Cramping Phantom Pain Treatment
- All protocols are streamlined into Quick Start sessions, for quick initiation of a session.
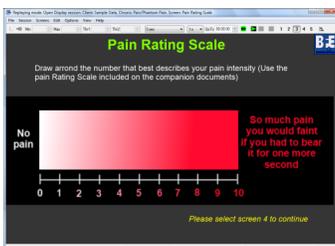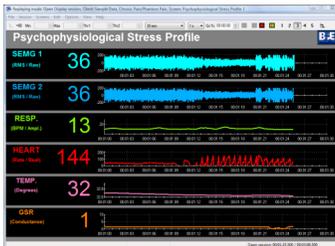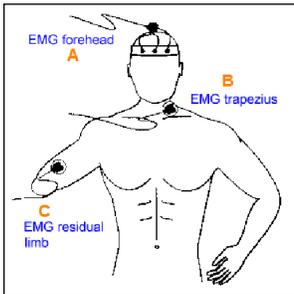
Note: Dr. Sherman's **Pain Assessment and Intervention from a Psychophysiological Perspective (2012)** book is not included with the suite.

To learn more about Dr. Sherman and his work, please visit the website: www.behavmedfoundation.org

Education & Training Opportunities

The BFE currently offers one type of online lesson/meeting designed to meet your diverse education and training needs.

- 6-Hour **Chronic Pain Class**: online instruction from a qualified instructor on the assessment and treatment techniques of chronic pain, both general and with phantom pain. This class is well suited for beginners or experienced practitioners that want to make use of the Chronic Pain Suite in their practice. All aspects of using the software will be covered in great detail, and recorded data will be reviewed to ensure proper recording. Interpretation of data by the instructor will occur, however focus is maintained on being able to successful use all aspects of the software and equipment. This class is APA approved for 6 hours of continuing education units (CEUs).

- **Pain Assessment and Intervention from a Psychological Perspective Online Course**: This 45 hour CE credit home study course presented by Richard A. Sherman, Ph.D. is divided into 25 units. Each unit consists of a recorded audiovisual lecture, one of more chapters of reading in the texts, review questions to be answered, and a real time recitation with me. The lecture portion of the course is presented through a series of audiovisual lectures profusely illustrated by power-point slides. Participants that sign up for the course, will receive two CDs via mail with materials. Refer to online shop item for more information.

For more Information or Questions:
greenchronicpain @gmail.com

To purchase the suite and/or education & training, go to the BFE Shop:
www.bfe.org/buy

BioGraph Infiniti Software

BioGraph Infiniti Software is the core of all current and future Thought Technology biofeedback and psychophysiology products. It provides a multimedia rich graphical experience, while capturing and analyzing raw data. It includes all the features and functions required to run our specialized Chronic Pain Suite and offers the ability to customize your own screens using the Developer Tool. The suite functions with **BioGraph Infiniti version 5.1.4** or **6.0,** and is designed to provide full compatibility with the latest Windows 8 operating system.

Choose the Encoder to Meet Your Needs

You need the encoder to run the software:

- **ProComp Infiniti encoder** is the eight-channel, multi-modality encoder that has all the power and flexibility you need for real-time, computerized biofeedback and data acquisition in any clinical setting. We only ever use two sensors with this suite.

Select Associated Sensors Necessary for use with Encoder

This list consists of the all sensors necessary for running the suite.

- **MyoScan sensors (x2)** are pre-amplified surface electromyography sensors for measuring muscular tension.

- **BVP sensor (x1)** is a blood volume pulse detection sensor (otherwise known as a PPG sensor) housed in a small finger worn package, to measure heart rate & heart rate variability.

- **Respiration sensors (x1)** are durable, latex girth belt for monitoring respiration rate, waveform and amplitude sensor.

- **Skin Conductance (x1)** sensor measures the conductance across the skin, and is normally connected to the fingers.

- **Temperature sensor (x1)** measures skin surface temperature between 10°C – 45°C (50°F - 115°F).

- **ForceTrac (x1)** is a highly sensitive and accurate algometer sensor capable of monitoring any force perpendicular to its surface through one of 3 attachments.
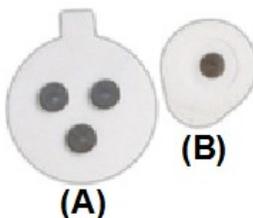
Disposable Electrodes for Sensors

Disposable electrodes are required for using the MyoScan sensors. The sensors have two potential electrode placement types, so there are also two types of electrodes for purchase. The **triode** disposable electrode (A) is used for narrow placement and the **unigel** (B) for wide electrode placement.