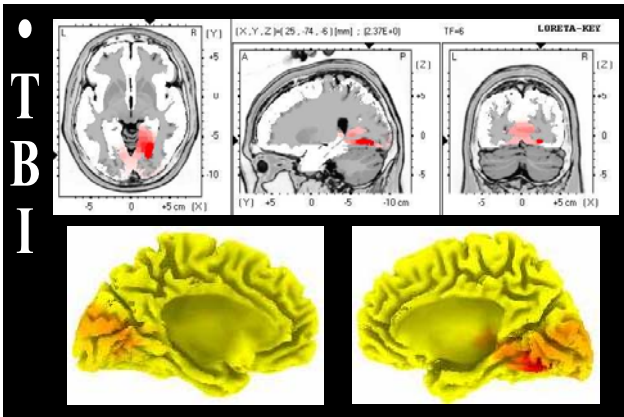


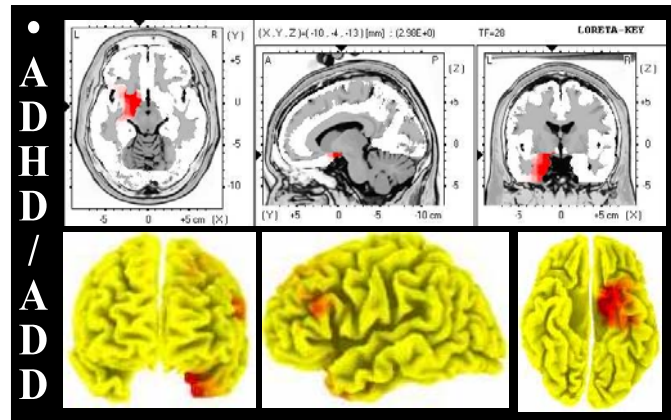
QEEG Brain Mapping Technology has advanced greatly in the past three decades.

In the comfort of our office, you or a family member can have your brain function mapped and analyzed. The power of this technology provides region of interest information about brain function.



(1) This case study had a previous diagnosis of Bipolar Disorder with symptoms and history substantiating the diagnoses. Bipolar symptoms began manifesting when the client was approximately 20-years-old. Captured brainwave analysis with 3D images however, showed region specific patterns, indicative of **brain trauma injury**; influencing unstable activity in the Limbic system, mimicking bipolar symptoms.

This information led to helpful treatment of mood instability caused by a Traumatic Brain Injury.



(2) This case study came with a diagnoses of ADHD, symptoms and a history to support the diagnosis. ADHD symptoms began manifesting when the client was approximately 4-years-old. Captured brainwave analysis, at 9-years-old, provided 3D images, localizing, region specific patterns identifying the left side of the amygdala and parahippocampus as hyper-aroused; influencing unstable hyperactivity from the sub-cortical. In this case, stimulants had an adverse effect on the client, but after the QEEG, it was determined mood stabilizer rather than a stimulant was needed.

Contact Family Optimum Services today to see how we can best serve you.

Family Optimum Services

- Group & Family
- Individual
- EEG Neurotherapy
- Neuro Brain Mapping

Steven L. Willson, LPC
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Family Optimum Services

Counseling, Neurotherapy, QEEG Brain Mapping

Family Optimum Services provides both general mental health treatment for all ages and specialized skills in Neurotherapy and QEEG Brain Map Analysis.

General Counseling Services...

- Individual Counseling
- Group Counseling
- Couples/Marital & Family Counseling

With issues like:

- Anxiety
- Post Traumatic Stress Disorder (PTSD)
- Depression
- Attention Deficit Disorder (ADD)
- Hyperactive Disorder (ADHD)
- Concussion / Brain Injury (TBI)



EEG Neurotherapy is a specialized form of biofeedback using electroencephalography (EEG).

How does it work?

EEG is conducted using Operant Conditioning. A computer monitors the clients brain waves with sensors and displays real time data on the screen in the form of images, creating a biofeedback loop. When the client's brain produces the desired frequencies, it is rewarded on the video screen.

Brain waves are produced as a result of chemical / electrical / metabolic activity in the brain. Influencing the brain wave will have an effect on chemical / electrical / metabolic activities in the brain.

How is this useful?

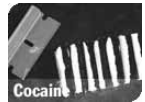
EEG Neurotherapy trains targeted brain waves to balance their amplitude, coherence, and phase lag into patterns of healthier performance within the hemispheres of the brain.

Through EEG, a client can learn to improve focus, clarity of thought and stabilized mood. EEG has been helpful for individuals struggling with symptoms of Addictions, ADHD, Anxiety, Depression, Epilepsy, Learning Disabilities, Mild Traumatic Brain Injuries, Panic Attacks, and Seizures.

Addictions

Clinical studies show neurotherapy is an effective intervention for drug and alcohol addictions, by teaching the subject to control their own brain waves; thereby, reducing or eliminating the need for drugs and alcohol.

Self-soothing neurotransmitters are produced while in a state of relaxing alpha waves. Neurotherapy helps addicts reach this state, without the use of drugs or alcohol. The need of medications is often reduced or eliminated.



Attention Deficit Disorder

Through Neurotherapy, reduction in ADD/ADHD symptoms are expected to occur. Improvements in school performance, social behavior and irritability are generally observed.



Depression / Anxiety

Depression is one of the most common mood disorders. It can affect nearly 20% of the population, regardless of race, sex, or geography. Neurotherapy, along with psychotherapy, can be helpful in reducing or eliminating depressive states and/or depression.



Seizures

Neurotherapy can also have a significant effect on seizure activity for those with seizure disorders. This effect is usually positive with a reduction in the incidents of seizures.