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TREATING AUTISM

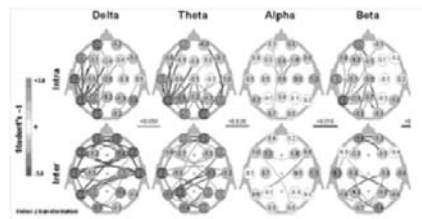
Neurotopia Neurofeedback Therapy (NNT) can change your life by addressing dysfunctions found in the brain



Neurofeedback: A must know treatment for autism.

Autistic Spectrum Disorders

Children with autism indeed have significant differences in their brains. MRI images and QEEG brain-mapping research have shown this to be related to abnormal neural connectivity problems. The brains of individuals with ASD show both areas of excessively high connectivity and areas with deficient connectivity.



Neurofeedback to the Rescue

As a child proceeds through treatment and regains better brain self-regulation, troublesome symptoms and behaviors begin to decrease. Typically, sleep improves, anxiety or hyperexcitability lessens, fewer outbursts or tantrums are experienced, there is more eye contact and more communication results. The child's brain is becoming more resilient and functioning better even though toxins are still present. Often, the improvement from neurofeedback may present a window of opportunity to make other changes in the child's diet or a willingness to participate in other treatments and improvements can snowball.

Study

A recent peer-reviewed study by Robert Coben, PHD, published in the *Journal of Neurotherapy*, showed connectivity-guided neurofeedback is capable of significantly remedying these anomalies and reducing autistic symptoms.

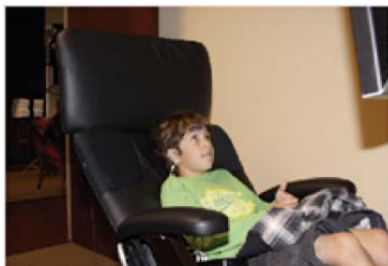
Methods

Assessment-guided neurofeedback was conducted in 20 sessions for 37 patients with ASD. The experimental and control groups were matched for age, gender, race, handedness, other treatments, and severity of ASD.

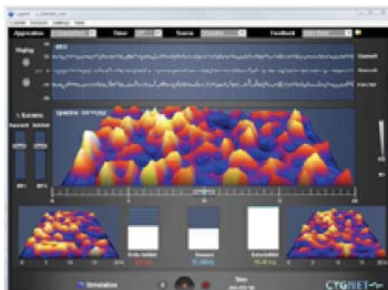
Results: The major findings of our study included an 89 percent success rate with a 40 percent reduction in core ASD symptoms as a result of assessment-guided neurofeedback training over 20 sessions. Significant improvement was noted for the experimental group on measures of attention, executive, visual perceptual and language functions. Enduring change was indicated by enhanced metabolic activity, regulation of output, and maintenance of changes within and across the twentieth treatment session. The benefit to harm ratio of 89:1 exceeded all current treatments for ASD as surveyed by Rimland (2005).

"I have yet to have one parent tell me that the neurofeedback was of no benefit to them. I've seen improvements all across the board from language, eye contact and socialization."

— Karima Hirani, MD MPH
 Professor at USC School of Medicine



Treatment consists of three sensors placed on you scalp with easily removable conductive paste



During your session, our neurofeedback technicians utilize advanced technology and software to train your brain to increase or decrease brainwaves based on the physician's protocols from your brain-mapping

Next Steps

Call 866.870.2982 to set up a free consultation or visit us www.neurotopia.com to research what Neurotopia Neurofeedback has to offer. There you will find articles and videos that will help you with your decision. Or pass this important information to a friend.



Quantitative-EEG brain-mapping can show faulty brainwaves associated with many physical, mental, social, and emotional symptoms.

How the Treatment Works

Your brain weighs about three pounds, yet it utilizes almost 50 percent of all of your body's blood glucose. It uses all of this glucose to create electro-chemical energy (electricity) which enables your brain to carry out all of its functions, including physical, mental and emotional regulation.

Brainwaves occur at different frequencies from slow waves to fast waves and each speed has its own function. Slow brainwaves (delta & theta) reflect the brain is under-aroused or functioning at reduced capacity for mental efficiency. This occurs during sleep, daydreaming and when areas of the brain go "off line" to take up nourishment. High levels of delta and theta, in specific areas of the brain, can be associated with learning disabilities, depression and/or inattention.

When your brain produces predominantly faster brainwaves (alpha & beta), it is more fully aroused, alert and focused. The neural networks are fully engaged to process information. Beta brainwaves need to be dominant for controlling attention, behavior, organization, emotions and basic learning functions. However, too many fast waves, in specific areas of the brain, can cause anxiety, aggression, irritability and other physical symptoms.

Call us for a free consultation either with a doctor or neurofeedback technician ready to answer all of your questions.

Perform QEEG Brain-mapping

Once you've decided to start your treatments, we will collect your medical history and perform a QEEG brain-map Image. This will give our physicians the diagnostic results necessary to locate the origin of your symptoms and create protocols to treat them. Every person is different. Even though people may have the same symptoms, they may be caused by different malfunctions of the brain. Many doctors perform QEEG brain-mapping in their office as a service to their patients. If your physician does not perform this service, our office will be glad to assist you in scheduling this.

Start Your Treatments

Once we have your history and correlate the diagnostic results from your QEEG, our physicians will schedule a consultation with you. During the consultation, they will explain your brain-mapping results and what treatments would be most effective for you.

Each of the symptoms on the parital list below may stem from dysfunction in the brain. Neurofeedback trains the brain to self-regulate and optimize functioning.

ADD & ADHD	SLEEP DISORDERS	AUTISTIC SPECTRUM SYMPTOMS
<ul style="list-style-type: none"> - Impulse control - Planning - Organization - Short term memory - Mental calming - much more 	<ul style="list-style-type: none"> - Excessive thoughts - Disrupted sleep cycles - Disrupted REM cycles - Night terrors - Night sweats - much more 	<ul style="list-style-type: none"> - OCD symptoms - ADD symptoms - Headaches - Seizures - much more
DEPRESSION	BEHAVIOR	IMMUNE, ENDOCRINE & ANS
<ul style="list-style-type: none"> - Obsessive negativity - Lack of motivation - Despair - Overwhelming emotions - Self-injurious behavior - much more 	<ul style="list-style-type: none"> - Lack of impulse control - ADD symptoms - OCD symptoms - Tics - Mood swings - much more 	<ul style="list-style-type: none"> - PMS (compulsive) - PMS (reactive/aggressive) - PMS (agitated) - Irritable bowel - Sugar craving & reactivity - much more
MIGRANES/CHRONIC PAIN	EATING DISORDERS	PERFORMANCE & MOTOR SKILLS
<ul style="list-style-type: none"> - Muscle tension - Obsessive thinking - Pain fixation - Poor concentration - Low pain threshold - much more 	<ul style="list-style-type: none"> - Compulsive eating - Lack of interest in food - Emotional instability - Hypoglycemia - Sugar craving - much more 	<ul style="list-style-type: none"> - Lack of mental calming - Lack of impulse control - Planning/organization - Obsessive thinking - Compulsive behavior - much more