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# BRAIN INJURY & NEUROLOGICAL DISORDERS

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### QEEG, sLORETA and neurofeedback in the diagnosis and treatment of emotional and cognitive disorders

The Quantitative Electroencephalography (QEEG) is a technique of taking EEG data and producing a visual map of the type and location of rhythms in the brain. The QEEG provides an analysis of brainwave function. The readings are compared and cross-referenced to a normative database. This helps clinicians to determine if the brain is regulated or dysregulated. This simple process takes only about an hour but produces a huge amount of data that provides information on how the brain is functioning which only Quantitative EEG is capable of. By using a brain map, we can analyze the EEG in different ways. Most important is to look at dysregulation that can show with a wide range of varieties, clusters and patterns which can lead to symptoms associated with ADD/ADHD, Asperger's Syndrome, Autism Spectrum Disorder, Depression, Anxiety and many other symptoms. This particular assessment of the brainwaves helps the clinician to apply neurofeedback exactly according to his symptoms and complaints. With Neurofeedback, eventually the brainwave activity is "shaped" toward a more desirable, more regulated performance. To get the best outcome in the Neurofeedback treatment, it is important to target the specific locations in the brain by utilizing knowledge from neuroscience, neuroanatomy and learning theory (operant conditioning). The treatment is specific to the conditions which are addressed, and specific to the individual. The results become real and lasting.

### Biography

Thomas F Feiner has more than 25 years' experience as Occupational Therapist and Neuro-therapist. He conducted and participated in clinical research on QEEG and evoked potentials and Neurofeedback since 2006. He developed computer software for testing the auditory order threshold on regular Windows PCs and created an easy to use stimulus presentation program for research in the field of evoked potentials and other psychophysiological measures. He is the Clinical Director of the Center for Neurofeedback in Munich and established the Institute for EEG-Neurofeedback in 2008 which offers professional education programs in the field of Neurofeedback, Quantitative EEG and evoked potentials. Since 2017, he conducted research on the EEG of meditators in great study of more than 1000 subjects. He is Founder and Owner of Neurofeedback-Partner GmbH. His focus is on research and development of integrated neurofeedback protocols, event related potentials in combination with low level brain stimulation technologies.

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