

***Cortical Integrative Therapy: Application of non-invasive brain stimulation in the treatment of pediatric brain injury and brain-based disorders***

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Cortical Integrative Therapy (CIT) is successful in treating a wide range of neurological conditions including traumatic and acquired brain injury as well as developmental disorders and learning disabilities. CIT utilizes the spatial and temporal specificity of sensory stimulation and motor signaling to initiate neuronal re-synchronization, restore hemispheric balance in functions, and drive neuronal plasticity so that long-term positive changes are implemented and maintained. CIT stimulates the brain by using a patient-specific set of simulative treatment therapies (visual, auditory, vestibular), physical exercises, and nutritional counseling.

The purpose of this presentation is to illustrate the effectiveness of CIT in the treatment of pediatric and adult brain injury. We will introduce a conceptual framework of CIT, describe typical treatment modalities, and report patient outcomes.

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