



## BrainStim Centers offers Magnetic e-Resonance Therapy (MeRT/TMS) to Valencia, Calabasas and Lancaster patients.

Neurosurgeon Mark Liker, MD, FAANS, FACS, is the founder and CEO of BrainStim Centers, a TMS Treatment center, located in Valencia, Calabasas & Lancaster, California and Cancun, Mexico.

Magnetic e-Resonance (MeRT) and Transcranial Magnetic Stimulation (TMS) are approved, noninvasive procedures that use magnetic fields to stimulate nerve cells in the brain to improve symptoms of a variety of neurological and psychiatric conditions including depression, anxiety, OCD, ADHD, PTSD, ASD, TBI, tinnitus and cognitive decline.

Our sophisticated diagnostic tools include an qEEG brain scan that reveals your brain wave function, activity, and performance. We also administer a comprehensive cognitive brain assessment.

"As a neurosurgeon, I recognize that the accuracy of my equipment means the difference between an effective and an ineffective treatment. Our patients rely on this as well. MeRT, or Magnetic e-Resonance Therapy, and Magventure TMS offer innovative, non-invasive options to target critical brain pathways associated with a variety of neurological issues."

No two brains are the same, so at BrainStim Centers, we approach each patient's condition with a personalized treatment plan for optimal brain health.

## e-Resonance Therapy (MeRT) holds promise for children with Autism Spectrum Disorder (ASD), offering several potential benefits:

**1. Improved Social Interaction:** MeRT/TMS therapy can target areas of the brain associated with social cognition and communication skills, such as the dorsolateral prefrontal cortex and the mirror neuron system. By modulating neural activity in these regions, MeRT/TMS may help improve social interaction abilities in children with ASD, including better understanding of social cues, enhanced empathy, and increased engagement in social situations.

**2. Reduction of Repetitive Behaviors:** MeRT/TMS has the potential to mitigate repetitive behaviors commonly observed in children with ASD, such as stereotypic movements or insistence on sameness. By modulating neural circuits associated with repetitive behaviors, MeRT/TMS therapy may help reduce the frequency and intensity of these behaviors, leading to greater flexibility and adaptability in daily routines.

**3. Enhanced Cognitive Function:** MeRT/TMS therapy can target brain regions involved in cognitive processes such as attention, memory, and executive function, which may be affected in children with ASD. By optimizing neural connectivity and synaptic plasticity, MeRT/TMS may enhance cognitive function in areas such as sustained attention, working memory, and problem-solving skills, improving overall cognitive abilities in children with ASD.

**4. Regulation of Sensory Processing:** Many children with ASD experience sensory sensitivities or atypical sensory processing, which can impact their daily functioning and quality of life. MeRT/TMS therapy may help regulate sensory processing by modulating neural circuits involved in sensory integration, leading to reduced sensory sensitivities and improved tolerance to sensory stimuli in children with ASD.

**5. Personalized Treatment Approach:** MeRT/TMS therapy can be tailored to meet the individual needs and preferences of each child with ASD. Treatment parameters, such as stimulation intensity, frequency, and target location, can be customized based on comprehensive assessments and ongoing monitoring, ensuring that interventions are targeted and effective for each child's specific profile and goals.

While research on MeRT therapy for children with ASD is still emerging, our work at BrainStim Centers show promising results in improving social interaction, reducing repetitive behaviors, enhancing cognitive function, regulating sensory processing, and promoting overall well-being in this population. Our treatments focus on improving the quality of life for our patients and their families.



**BRAINSTIM**  
CENTERS

## Many benefits we have seen in addressing autism with MeRT include:

- ✓ Improved sleep
- ✓ Longer sleep duration
- ✓ Less anxiety, more relaxed
- ✓ More independence
- ✓ Improved concentration and focus
- ✓ Better interaction with others
- ✓ Response to commands
- ✓ Improved mood
- ✓ Increased ability to cope with stress
- ✓ Greater attention span
- ✓ More sociability
- ✓ More motivation to learn
- ✓ Better emotional stability
- ✓ Increased ability to adapt to change
- ✓ Greater self-confidence and self-esteem
- ✓ More "presence" in the world going on around them
- ✓ Improved language skills

### Valencia Location:



28212 Kelly Johnson Pkwy,  
Suite 215, Valencia, CA 91355

### Calabasas Location:



23500 Park Sorrento, Suite #A4,  
(Second Floor) Calabasas, CA 91302

### Lancaster Location:



44151 15th Street West, Suite 210  
Lancaster, CA 93534

## Exploring MeRT Treatment for Autism Spectrum Disorder (ASD)

**Introduction:** Autism Spectrum Disorder (ASD) is a complex neurodevelopmental condition that presents unique challenges for individuals and their families, impacting social interaction, communication, and behavior. While traditional interventions offer support, very few treatments are available that show any real significant improvement for ASD patients. Fortunately, emerging therapies like Transcranial Magnetic Stimulation (MeRT) are showing tremendous promise in addressing core symptoms of ASD. Let's delve into how MeRT is revolutionizing autism treatment.

**The Potential of MeRT:** MeRT offers a novel approach to treating ASD by targeting specific neural circuits implicated in the condition. By modulating brain activity in key regions associated with social cognition, language processing, and sensory integration, MeRT aims to improve core symptoms and enhance overall functioning in individuals with ASD.

**How MeRT Works:** During a MeRT session, magnetic pulses are delivered to targeted areas of the brain, stimulating neurons and promoting neural plasticity. This process can help rewire dysfunctional circuits, improve connectivity between brain regions, and restore balance in neural networks affected by ASD.

**Efficacy and Safety:** While research on MeRT for ASD is still in its early stages, preliminary studies suggest very promising results. MeRT has been shown to improve social communication skills, reduce repetitive behaviors, and enhance cognitive function in individuals with ASD. Furthermore, MeRT is non-invasive, well-tolerated, and associated with minimal side effects, making it a safe option for children and adults with ASD.

**Personalized Treatment Approach:** One of the strengths of MeRT lies in its ability to be tailored to each individual's unique needs and challenges. Treatment parameters, such as stimulation intensity, frequency, and target location, can be customized to optimize outcomes and address specific symptoms of ASD in children and adults with ASD.

**Looking Towards the Future:** As research on MeRT for ASD continues to evolve, the potential for this innovative therapy to transform autism treatment is increasingly promising. By targeting the underlying neurobiology of ASD, MeRT offers hope for improving the lives of individuals with autism and their families.

**Phone : (310) 895-7122**

**Fax : (866) 471-2949**

✉ [info@brainstimcenters.com](mailto:info@brainstimcenters.com)

🌐 [www.brainstimcenters.com](http://www.brainstimcenters.com)