

# A Personal Mission becomes A Revolutionary Treatment



Kevin T. Murphy  
Professor & Vice Chair, Radiation Medicine & Applied Sciences

## CURRENT RESEARCH

After seeking treatment for his son's Asperger's, Dr. Murphy stumbled upon relief that may impact millions of lives

Imagine returning from combat and the trauma of war and finding yourself continually isolated from civilian life, embattled in the despair of self-medication and unwanted addictions. For many of our service members, this is a familiar reality, and the hopelessness is compounded by ineffective medical and behavioral therapies.

A beaming light of hope is finally breaking through. Dr. Kevin T. Murphy, Vice Chair and Professor of the Department of Radiation Medicine & Applied Sciences at the University of California, San Diego, is using repetitive transcranial magnetic stimulation (rTMS) to treat some of the most severe cases of neuro-dysfunction: PTSD, autism, eating disorders, depression, anxiety, TBI's, and more. This particular form of rTMS called, Magnetic Resonance Therapy (MRT), has shown a breakthrough in response due to the personalized way in which it is administered. Patients first undergo a quantitative electroencephalogram (qEEG), and a "resonance frequency" specific to the patient is identified. This particular frequency, is then non-invasively administered to the brain at a prescribed location along the scalp, constituting a breakthrough in results not previously seen with typical rTMS. But how does it work? Due to a number of different medical reasons and neuro-traumas, various regions of our brain begin running on different frequencies rather than on the same frequency. This lack of synchrony or "coherence" creates an electrical imbalance, and function is ultimately impaired. MRT restores the imbalance in a phenomenon termed "neuromodulation". The brain is essentially set back on tune, the way an orchestra begins to play in harmony.

Originally, intrigued by the promise of...

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## AFFILIATION

 University of California, San Diego

## EDUCATION

• M.D., University of Chicago

## RESEARCH AREAS

Veteran's Causes, Life Science, Neurological / Cognitive

## FUNDING REQUEST

Your contributions will support the continued research of Dr. Kevin T. Murphy, of UC San Diego, as he advances Magnetic Resonance Therapy (MRT) for the treatment of various disorders including PTSD, TBI, autism, and more. Donations will fund research studies to validate results and expand the availability of MRT to more patients at an affordable cost.

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