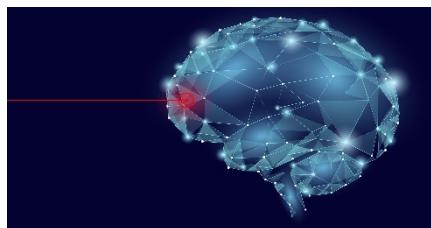


Psychiatry Service Spotlight

Center for Neuromodulation



The Department of Psychiatry is pleased to announce the opening of the UMass Center for Neuromodulation. The Center is located at 33 Lyman Street, Westborough, MA. The UMass Center for Neuromodulation is the **only center of its kind in New England** that brings the specialties of neurology, psychiatry, neurosurgery,

neuropsychology and others together to provide state-of-the-art patient care. We offer tailored treatments for each patient's symptom profile and comfort.

The Center's mission is to provide a broad and comprehensive array of evidenced-based, cutting-edge neuromodulation treatment options to people in Central Massachusetts and beyond. This is accomplished by:

- Providing evidence-based treatments to our patients.
- Providing a clinical base for research into new indications for neuromodulation treatments, their efficacy and outcomes.
- Providing educational and training opportunities for clinicians and the next generation of clinical leaders.

Neuropsychiatric disorders are significant public health problems:

- These disorders, including major depressive disorder, obsessive-compulsive disorder, post-traumatic stress disorder, Parkinson's disease, essential tremor, dystonias and epilepsy, are a major cause of disability.
- Major depressive disorder (MDD) affects about 10% of the population and is one of the leading causes of disability worldwide. In addition to being underdiagnosed and undertreated, major depressive disorder does not always respond to medication treatment.
- Existing medication treatments may also pose challenges due to side effects, inadequate resolution of symptoms, and lack of specificity.
- 29%-46% of depressed patients treated with standard-dose antidepressants for at least six weeks do not respond to treatment.

Services Provided

Transcranial Magnetic Stimulation (TMS)

- TMS is a non-invasive, FDA approved treatment option for patients with major depressive disorder or obsessive-compulsive disorder. It is an effective and proven treatment and can help many patients who have not benefitted from other prescription or psychotherapy treatments.

- TMS has also been shown to beneficially alter neurotransmission in other brain areas involved in several disorders including anxiety disorders, cognitive disorders and insomnia. TMS is an effective, non-invasive, outpatient therapy and is appropriate for adults with depression who have failed to achieve satisfactory improvement from antidepressant medications.

Electroconvulsive Therapy (ECT)

- ECT is a treatment option for patients with severe depression, catatonia, psychotic depression, mania and refractory schizophrenia. It is one of the safest and most effective treatments for depression and can save lives when other treatments have failed.
- ECT is usually offered to patients with depression who have not responded to medications; have had excessive side effects from medication or require rapid response due to serious medical risks.
- More than 80 percent of patients respond to ECT. ECT is well tolerated and produces more rapid relief than most other treatments.
- Some patients develop memory problems during the initial phase of treatment. If these problems develop, they gradually improve after treatment is completed.

Referral Process

- Patients should see their primary care provider for a referral.
- UMMHC clinicians may refer a patient for outpatient TMS via EPIC. To refer a patient for ECT, please call 508-334-1055.
- Non-UMMHC clinicians should utilize the ECT or TMS referral forms available [here](#).

UMass Center for Neuromodulation

- Ph: 508-334-1055
- Fax: 774-441-6072
- [Website](#)



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