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What is TMS?



TMS is short for transcranial magnetic stimulation.

TMS is a non-invasive treatment where magnetic pulses are delivered to stimulate nerve cells in the part of the brain controlling the mood. This area is often underactive in patients with depression.

Stimulating this particular part of the brain has proven to produce an antidepressant effect on people suffering from depression.

TMS does not require anesthesia or surgery. TMS is not to be confused with ECT (Electro Convulsive Therapy) and it does not affect cognitive function such as memory.



Depression

Depression affects 300 million people worldwide and is the leading cause of disability.

The most common symptoms of depression are feelings of emptiness, sadness or irritable mood in combination with both cognitive and somatic changes. This can significantly affect the individual's capacity to function.

Frequently asked questions about TMS

How does TMS work?

TMS activates the brain nerve cells by repeatedly applying magnetic pulses. TMS is therefore also known as rTMS (repetitive trans-cranial magnetic stimulation) because more than one magnetic pulse is delivered to the brain during a treatment session.

TMS therapy consists of repeated cycles of TMS followed by rest periods. Diagnosis and initial session is performed by a qualified licensed provided. The remaining treatment sessions will typically be conducted by trained staff under the supervision of the licensed provider.

Who can get TMS therapy?

TMS is a treatment option for adult patients suffering from major depressive disorder who have failed to receive satisfactory improvement from antidepressant medication.

TMS therapy is available by prescription only. Your provider will use medication dosing records and depression scores among other measures to determine whether or not you are a candidate for TMS therapy.





The magnetic coil which delivers the TMS treatment is typically positioned on the left front side of the head. This is the part of the brain which connects all the different brain areas involved in depression.

What happens during TMS therapy?



How long does the treatment take?

Depending on which treatment protocol your provider prescribes, one TMS therapy session can last from 3 minutes and up to 37 minutes. All protocols, however, will be applied with one treatment session per day, 5 times per week, over a period of 4-6 weeks.

What does TMS feel like?

You sit in a chair in a relaxed position in your provider's office/clinic. When the magnetic pulses are delivered, you will hear a clicking sound and feel a tapping sensation on your scalp. To reduce the sound, you will use ear plugs during treatment.

Are there any side effects to TMS therapy?

TMS may cause headache or nausea but you should be able to resume your daily activities right after treatment. TMS therapy is a medical procedure and any side effects experienced during or after receiving the therapy should be reported to your provider.



Pain therapy system

Magnetic Peripheral Nerve Stimulation (mPNS) is an efficient and painless way of treating chronic pain without the use of drugs and surgery. This non-invasive treatment option has an average pain relief of up to 87%**.

- *MAGNETIC PERIPHERAL NERVE STIMULATION
- **BEDDER M, PARKER L.: MAGNETIC PERIPHERAL NERVE STIMULATION (MPNS) FOR CHRONIC PAIN, 2023





Up to 87%



13 minutes average time



NO druge <u>:</u>



sessions first 2 months and maintenance every

6 to 8 weeks

Setting you apart

MagVenture Pain Therapy is an FDA cleared magnetic stimulator system that provides brief and focused magnetic pulses to non-invasively stimulate peripheral nerves and provide relief of chronic intractable, post-traumatic and post-surgical pain for patients 18 years or older.





Unlocking the power of Magnetic Peripheral Nerve Stimulation (mPNS)

MagVenture's versatile coil selection accommodates for different anatomical regions of the body offering a range of options for the treatment of pain.



Advantages

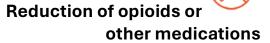
Why choose MagVenture Pain Therapy

6 good reasons to choose MagVenture Pain Therapy and Magnetic Peripheral Nerve Stimulation (mPNS) as your future option of managing peripheral pain.



FDA cleared

The MagVenture Pain Therapy system is intended to stimulate peripheral nerves for relief of chronic intractable, post-traumatic and post-surgical pain for patients 18 years or older. It is a relatively new technique in the US for pain relief in the clinical setting and thus not very widespread yet.



mPNS represents another option for chronic neuropathic pain management that can minimize dependence on opioids and other medications with potentially adverse side effects by an average of 51%.*

*Bedder M, Parker L.: Magnetic Peripheral Nerve Stimulation (mPNS) for Chronic Pain, 2023



Searching for other solutions

Existing pain management techniques like physiotherapy and TENS might not yield satisfactory outcomes for all patients, leaving healthcare providers searching for other solutions. A solution like this could very well be MagVenture Pain Therapy.



Promising pain relief

Evidence shows Magnetic Peripheral Nerve Stimulation (mPNS) to have a promising average pain relief of up to 87%.* Using magnetic pulses, MagVenture Pain Therapy engages sensory, pain, and motor fibers mechanistically to recondition the central nervous system by eliminating noxious pain signals to the brain, reducing chronic neuropathic pain for respondent patients.

*Bedder M, Parker L.: Magnetic Peripheral Nerve Stimulation (mPNS) for Chronic Pain, 2023



Additional treatment option

Many patients with chronic pain have limited treatment options, and conventional methods might not provide satisfactory results. MagVenture Pain Therapy offers another option of managing chronic pain with potentially positive outcomes.



Non-invasive procedure

Some patients are hesitant about invasive procedures and surgeries for pain relief.

MagVenture Pain Therapy offers a non-invasive method that does not involve any of the typical risks associated with surgery.

Reference: https://magventure.com/pain-therapy/

Patient Questionnaire

To identify if TMS therapy is right for you, your provider will ask you questions like: Do you have epilepsy or have you ever had a convulsion or a seizure? ☐ yes ☐no Have you ever had a fainting spell or syncope? If yes, please ☐ yes ☐ no describe on which occasion(s)? □ yes □ no Have you ever had a head trauma that was diagnosed as a concussion or was associated with loss of consciousness? ☐ yes ☐ no Do you have any hearing problems or ringing in your ears? □ yes □ no Do you have cochlear implants? ☐ yes ☐ no Are you pregnant or is there any chance that you might be? ☐ yes ☐ no Do you have metal in the brain, skull or elsewhere in your body (e.g., splinters, fragments, clips, etc.)? If so, specify the type of metal. □ yes □ no Do you have an implanted neurostimulator (e.g., DBS, epidural/subdural, VNS)? ☐ yes ☐ no Do you have a cardiac pacemaker or intracardiac lines? ☐ yes ☐ no Do you have a medication infusion device? Are you taking any medications? (please list) ☐ yes ☐ no ☐ yes ☐ no Did you ever undergo TMS in the past? If so, were there any problems? ☐ yes ☐ no Did you ever undergo MRI in the past? If so, were there any problems?

Affirmative answers to one or more of these questions do not represent absolute contraindications to TMS, but the risk/benefit ratio should be carefully balanced by the trained staff.