



## MEDICAL POLICY STATEMENT Marketplace

Policy Name & Number	Date Effective
Transcranial Magnetic Stimulation for Treatment of Depression-MP-MM-1339	10/01/2024
Policy Type	
<b>MEDICAL</b>	

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Medical Policy Statements prepared by CareSource and its affiliates do not ensure an authorization or payment of services. Please refer to the plan contract (often referred to as the Evidence of Coverage) for the service(s) referenced in the Medical Policy Statement. If there is a conflict between the Medical Policy Statement and the plan contract (i.e., Evidence of Coverage), then the plan contract (i.e., Evidence of Coverage) will be the controlling document used to make the determination. According to the rules of Mental Health Parity Addiction Equity Act (MHPAEA), coverage for the diagnosis and treatment of a behavioral health disorder will not be subject to any limitations that are less favorable than the limitations that apply to medical conditions as covered under this policy.

### This policy applies to the following Marketplace(s):

<input checked="" type="checkbox"/> <b>Georgia</b>	<input checked="" type="checkbox"/> <b>Indiana</b>	<input checked="" type="checkbox"/> <b>Kentucky</b>	<input checked="" type="checkbox"/> <b>Ohio</b>	<input checked="" type="checkbox"/> <b>West Virginia</b>
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A. Subject

**Transcranial Magnetic Stimulation for Treatment of Depression**

B. Background

Transcranial magnetic stimulation (TMS) was originally introduced in 1985 as a noninvasive treatment modality for treatment-resistant Major Depressive Disorder (MDD). Brief, repetitive pulses of magnetic energy are sent to the scalp via a large electromagnetic coil, generating a low level of electrical stimulation. These magnetic fields pass through the skull and induce electrical currents that depolarize neurons in a focal area of the surface cortex. The magnetic field generated by this type of stimulation is very small and cannot be felt by the patient but is strong enough to flow into the brain without inducing seizures or creating a need for anesthesia.

TMS is generally an outpatient procedure with conscious patients and sessions that vary between 30 to 40 minutes. Treatment can be delivered as a single pulse or as a series of pulses. Despite variability in the number of pulses delivered per session and the number of sessions per patient, research indicates that typical courses of TMS consist of treatment up to 5 days a week for up to 6 weeks. A tapering schedule is used to end treatment.

C. Definitions

- **Acute (Index) Course of Treatment** – The initial series of treatment given to relieve acute symptoms of the MDD.
- **Adequate Trial of an Antidepressant Drug** – Taking a drug for at least 4 weeks at or near the maximum dose for the specific antidepressant as approved by the Food and Drug Administration (FDA) or documentation exists that higher doses were not tolerated when the dose is less than the FDA-approved maximum.
- **Continuation TMS** – Treatment beginning after the acute/index course lasting up to 6 months and designed to prevent the worsening of symptoms and continued treatment for a depressive episode that has not yet remitted.
- **Depression Rating Scale** – Scales standardized for national use that reliably assess the range of symptoms, both type and magnitude, most commonly observed in adults with MDD. Listed below are examples of commonly used scales:
  - Beck Depression Inventory (BDI)
  - Geriatric Depression Scale (GDS)
  - Hamilton Depression Rating Scale (HAM-D)
  - Patient Health Questionnaire-9 (PHQ-9)
  - Quick Inventory of Depressive Symptomatology (QIDS)
- **Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition, Text Revision (DSM-5-TR)** – Standard language by which clinicians, researchers, and public health officials in the US communicate about mental disorders and subsequent criteria and classification.
- **Maintenance TMS** – Regularly scheduled TMS sessions on a weekly, biweekly, or monthly basis to prevent relapse of depressive symptoms.

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- **Major Depressive Disorder (MDD)** – Discrete episodes of at least 2 weeks duration involving changes in affect, cognition, and neurovegetative functions and inter-episode remission evidenced by a combination of 5 or more symptoms that must include either depressed mood or anhedonia representing a change from previous functioning.
- **Medication Side Effects** – Unexpected effects that cause significant distress, inhibit daily function, have the potential to worsen health, or are life threatening.
- **Remission** – The absence of significant signs or symptoms of a major depressive episode during the previous 2 months.

#### D. Policy

- I. A review of medical necessity is required for initial and continuation courses of TMS.
  
- II. TMS is considered medically necessary when **all** the following criteria are met:
  - A. *Member is 18 years of age or older.*
  - B. *There is a confirmed diagnosis of MDD, single or recurrent, with a current severe episode as evidenced by a recent score on a standardized depression rating scale and at least **one** of the following:*
    1. *resistance to treatment evidenced by a **lack of a clinically significant response during a current or previous depressive episode and adequate trials** of 4 antidepressant agents, including at least 2 different agent classes at or near the maximum effective dose and duration for each class approved by the FDA*
    2. *inability to tolerate a therapeutic dose of medications* evidenced by documentation in the medical record of 4 trials of antidepressant agents *with distinct side effects*
    3. *history of response to TMS in a previous depressive episode, as evidenced by a greater than 50% improvement on a standardized depression rating scale*
    4. *currently receiving or is a candidate for and has declined electroconvulsive therapy (ECT) with TMS considered a less invasive treatment option*
  - C. Completion of a trial of evidence-based psychotherapy for MDD with appropriate frequency and duration without significant improvement for 12 weeks, alone or combined with psychopharmacologic agents.
  - D. None of the following conditions or contraindications are present:
    1. *epilepsy or history of seizure or presence of other neurologic diseases that may lower seizure threshold (eg, cerebrovascular accident, severe head trauma, increased intracranial pressure)*
    2. *acute or chronic psychotic symptoms or disorders (eg, schizophrenia, schizophreniform, schizoaffective disorder)*
    3. *cochlear implants, deep brain stimulators, or vagus nerve stimulators*
    4. *current use of substances that may significantly lower seizure threshold (eg, alcohol or stimulants)*
    5. *metallic hardware or implanted magnetic-sensitive medical devices (eg, implanted cardioverter-defibrillators, pacemakers, metal aneurysm clips or*

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*coils) at a distance within the electromagnetic field of the discharging coil (eg, less than or equal to 30 cm to the discharging coil)*

6. unstable medical disorders

III. Additional treatment courses of TMS are considered medically necessary when **all** the following have been met:

- A. 30 days since last session of TMS
- B. *a history of response to TMS in a previous depressive episode evidenced by a greater than 50% improvement on a standardized depression rating scale*
- C. medical necessity is met per Section II above

IV. TMS maintenance treatment is not considered medically necessary. There is not sufficient evidence in peer reviewed literature to assess net benefit versus harm for patients.

V. Additional criteria:

- A. *TMS must be administered by an FDA-cleared device for the treatment of MDD in a safe and effective manner according to the manufacturer’s user manual and specified stimulation parameters.*
- B. *A treatment course should not exceed 5 days a week for 6 weeks (total of 30 sessions), followed by a 3-week taper of 3 treatments in 1 week, 2 treatments the next week, and 1 treatment in the last week.*
- C. TMS can be ordered by and performed under direction of a neurologist, licensed psychiatrist, or psychiatric nurse practitioner who has examined the member, reviewed the record when it is within scope of practice, and has experience in administering TMS therapy within scope of practice.

E. State-Specific Information

NA

F. Conditions of Coverage

NA

G. Related Policies/Rules

Medical Necessity Determinations

H. Review/Revision History

DATE		ACTION
<b>Date Issued</b>	07/12/2018	
<b>Date Revised</b>	08/31/2022	Annual review. Combined individual policies (GA 0861, IN 0237, KY 0239, OH 0235, WV 0240).
	10/25/2022	Added IA MP. Evote received 12/8/22.
	01/19/2023	Changed title for clarity. Removed IA.
	08/02/2023	Annual review. Updated references. Approved at Committee.
	06/19/2024	Annual review. Updated references. Approved at Committee.

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<b>Date Effective</b>	10/01/2024	
<b>Date Archived</b>		

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