Medical Policy
Repetitive Transcranial Magnetic Stimulation (rTMS)

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Policy Number: 297
BCBSA Reference Number: NA
NCD/LCD: Local Coverage Determination (LCD): Transcranial Magnetic Stimulation (L33398)

Related Policies
- Outpatient Psychotherapy, #423

Policy
Commercial Members: Managed Care (HMO and POS), PPO, and Indemnity

Deep rTMS or rTMS may be considered MEDICALLY NECESSARY for use in an adult with a diagnosis of Major Depressive Disorder (Single Episode or Recurrent) who meets one of the following three clinical criteria:
- Has resistance to treatment as evidenced by a lack of clinically significant response to 4 complete trials of psychopharmacologic agents from at least two different agent classes. (A trial shall be considered complete if there is an adequate therapeutic dose and duration of not less than four weeks per medication.)
  And
- Has completed 12 sessions of psychotherapy in conjunction with any one or more of the pharmacologic trials noted above OR
- Has demonstrated Inability to tolerate 4 distinct psychopharmacologic agents with specific side effects which are clearly documented OR
- Has a history of a clinically significant response to rTMS in a prior major depressive episode as evidenced by a greater than 50% response in standard rating scales for depression.

Deep rTMS or rTMS is INVESTIGATIONAL and NOT MEDICALLY NECESSARY for Major Depressive Disorder (MDD) when the previous criteria are not met, and for all other psychiatric disorders or behavioral health diagnoses.

Maintenance therapy of rTMS to prevent recurrence or relapse of MDD as this usage is considered INVESTIGATIONAL.

rTMS is delivered by a Food and Drug Administration (FDA) cleared device according to specified treatment parameters, up to a total of 30 sessions in up to seven weeks with up to 6 taper treatments to
be administered in the 3 weeks following the course of 30 treatments. The clinical impact of rTMS must be measured using the PHQ-9 with administrations of the instrument prior to beginning treatment, at least once in the course of treatment, and at the conclusion of treatment.

The following represent contraindications to the use for rTMS:

- Seizure Disorder (Except Isolated febrile seizures of infancy without recurrence)
- Psychosis, either acute or chronic (e.g. Major Depression with Psychotic Features, Schizoaffective Disorder, Schizophrenia)
- Presence of a metal or conductive device in their head or body that is contraindicated with rTMS. For example, metals that are within 30 cm of the magnetic coil and include but are not limited to cochlear implant, metal aneurysm clips, bullet fragments, pacemakers, implanted cardioverter defibrillator (ICD), Vagus Nerve Stimulator (VNS).

Medicare HMO BlueSM and Medicare PPO BlueSM Members

Medical necessity criteria and coding guidance for Medicare Advantage members living in Massachusetts can be found through the link below.

Local Coverage Determination (LCD): Transcranial Magnetic Stimulation (L33398)

For medical necessity criteria and coding guidance for Medicare Advantage members living outside of Massachusetts, please see the Centers for Medicare and Medicaid Services website for information regarding your specific jurisdiction at https://www.cms.gov.

Authorization Information

Commercial Members: Managed Care (HMO and POS)

Prior authorization is required.

- For an initial course of treatment, documentation must be submitted that demonstrates how the patient meets the medical necessity requirements. In addition, the patient’s pre-treatment status as measured with one of the accepted depression scales must be submitted.
- For a repeat course of treatment, documentation must be submitted that demonstrates how the patient meets the medical necessity requirements, as well as the patient’s pre-treatment status measured with one of the accepted depression scales AND pre-and post-treatment status for the prior course of treatment.

Commercial Members: PPO, and Indemnity

Prior authorization is NOT required.

Medicare Members: HMO BlueSM

Prior authorization is required.

- For an initial course of treatment, documentation must be submitted that demonstrates how the patient meets the medical necessity requirements. In addition, the patient’s pre-treatment status as measured with one of the accepted depression scales must be submitted.
- For a repeat course of treatment, documentation must be submitted that demonstrates how the patient meets the medical necessity requirements, as well as the patient’s pre-treatment status measured with one of the accepted depression scales AND pre-and post-treatment status for the prior course of treatment.

Medicare Members: PPO BlueSM

Prior authorization is NOT required.
CPT Codes / HCPCS Codes / ICD Codes
Inclusion or exclusion of a code does not constitute or imply member coverage or provider reimbursement. Please refer to the member’s contract benefits in effect at the time of service to determine coverage or non-coverage as it applies to an individual member.

Providers should report all services using the most up-to-date industry-standard procedure, revenue, and diagnosis codes, including modifiers where applicable.

The following codes are included below for informational purposes only; this is not an all-inclusive list.

The above medical necessity criteria MUST be met for the following codes to be covered for Commercial Members: Managed Care (HMO and POS), PPO, Indemnity, Medicare HMO Blue and Medicare PPO Blue:

**CPT Codes**

<table>
<thead>
<tr>
<th>CPT codes:</th>
<th>Code Description</th>
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<tbody>
<tr>
<td>90867</td>
<td>Therapeutic repetitive transcranial magnetic stimulation (TMS) treatment; initial, including cortical mapping, motor threshold determination, delivery and management</td>
</tr>
<tr>
<td>90868</td>
<td>Therapeutic repetitive transcranial magnetic stimulation (TMS) treatment; subsequent delivery and management, per session</td>
</tr>
<tr>
<td>90869</td>
<td>Therapeutic repetitive transcranial magnetic stimulation (TMS) treatment; subsequent motor threshold re-determination with delivery and management</td>
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</tbody>
</table>

The following ICD Diagnosis Codes are considered medically necessary when submitted with the CPT codes above if medical necessity criteria are met:

**ICD-10 Diagnosis Codes**

<table>
<thead>
<tr>
<th>ICD-10-CM Diagnosis codes:</th>
<th>Code Description</th>
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<tbody>
<tr>
<td>F32.2</td>
<td>Major depressive disorder, single episode, severe without psychotic features</td>
</tr>
<tr>
<td>F33.2</td>
<td>Major depressive disorder, recurrent severe without psychotic features</td>
</tr>
</tbody>
</table>

**Description**
Repetitive Transcranial Magnetic Stimulation (rTMS) is a procedure that involves placing a magnetic coil over the exterior of the head, most commonly in the left prefrontal cortex area. Magnetic current is passed through the coil which induces electrical activity in the brain. A course of treatment typically takes 4 to 7 weeks. rTMS is an outpatient procedure, does not cause convulsions and does not require anesthesia.

**Summary**
The literature on rTMS for treatment-resistant depression is the most developed and includes a number of double-blind randomized sham-controlled short-term trials. BCBSMA will cover rTMS treatment that meets the above clinical criteria with an FDA cleared device and with a psychiatrist trained in its use. There is no longitudinal evidence regarding the effect of rTMS.

**Policy History**

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
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<tr>
<td>5/2015</td>
<td>New medical necessary indications described (coverage for deep rTMS added). Effective 5/1/2015.</td>
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<tr>
<td>12/2014</td>
<td>New investigational indications described (non-coverage for deep rTMS added). Effective 12/1/2014.</td>
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</table>
5/2014  Updated Coding section with ICD10 procedure and diagnosis codes, effective 10/2015.

Information Pertaining to All Blue Cross Blue Shield Medical Policies
Click on any of the following terms to access the relevant information:
Medical Policy Terms of Use
Managed Care Guidelines
Indemnity/PPO Guidelines
Clinical Exception Process
Medical Technology Assessment Guidelines

References


32. Non Pharmacologic Interventions for Treatment Resistant Depression in Adults, Comparative Effectiveness Review Number 33, Agency for Health Care Research and Quality, September, 2011.

Endnotes

1 Based on expert opinion