

## Medical Coverage Policy | Transcranial Magnetic Stimulation



**EFFECTIVE DATE:** 03|07|2012

**POLICY LAST UPDATED:** 05|16|2017

### OVERVIEW

Transcranial magnetic stimulation (TMS), also called repetitive transcranial magnetic stimulation, is a non-invasive method of delivering electrical stimulation to the brain. TMS involves placement of a small coil over the scalp; passing a rapidly alternating current through the coil wire, which produces a magnetic field that passes unimpeded through the scalp and bone, resulting in electrical stimulation of the cortex. Repetitive TMS is used as a treatment of depression and other psychiatric/neurologic brain disorders. This policy documents the medical criteria for when the service is medically necessary.

### MEDICAL CRITERIA

As documented by Blue Cross & Blue Shield of Rhode Island (BCBSRI) Behavioral Health Vendor.

### PRIOR AUTHORIZATION

Preauthorization is required for BlueCHiP for Medicare and recommended for all other Commercial products. Contact BCBSRI Behavioral Health Vendor at 1-800-274-2958

### POLICY STATEMENT

#### BlueCHiP for Medicare and Commercial Products

Preauthorization is required for BlueCHiP for Medicare and recommended for all other Commercial products. Contact BCBSRI Behavioral Health Vendor at 1-800-274-2958

### BACKGROUND

Transcranial magnetic stimulation (TMS), also called repetitive transcranial magnetic stimulation, is a non-invasive method of delivering electrical stimulation to the brain. A magnetic field is delivered through the skull where it induces electric currents that affect neuronal function. Repetitive TMS is being evaluated as a treatment of depression and other psychiatric/neurologic brain disorders. The use of TMS is typically recommended for up to 30 visits over a 7-week period followed by 6 taper treatments.

Transcranial magnetic stimulation was first introduced in 1985 as a new method of non-invasive stimulation of the brain. The technique involves placement of a small coil over the scalp; passing a rapidly alternating current through the coil wire, which produces a magnetic field that passes unimpeded through the scalp and bone, resulting in electrical stimulation of the cortex. TMS was initially used to investigate nerve conduction; for example, TMS over the motor cortex will produce a contralateral muscular-evoked potential. The motor threshold, which is the minimum intensity of stimulation required to induce a motor response, is empirically determined for each individual by localizing the site on the scalp for optimal stimulation of a hand muscle, then gradually increasing the intensity of stimulation. The stimulation site for treatment is usually 5 cm anterior to the motor stimulation site.

### COVERAGE

Benefits may vary between groups and contracts. Please refer to the appropriate Evidence of Coverage, Subscriber Agreement for applicable behavioral health benefits/coverage.

### CODING

The following codes are covered for all BlueCHiP for Medicare and Commercial products with preauthorization:

**90867** Therapeutic repetitive transcranial magnetic stimulation treatment planning

**90868** Therapeutic repetitive transcranial magnetic stimulation treatment delivery and management, per session

**90869** Therapeutic repetitive transcranial magnetic stimulation (TMS) treatment; subsequent motor threshold re-determination with delivery and management

#### **RELATED POLICIES**

None

#### **PUBLISHED**

Provider Update, July 2017

Provider Update, January 2017

Provider Update, February 2016

Provider Update, July 2014

Provider Update, August 2013

Provider Update, July 2012

Provider Update, May 2012

Provider Update, February 2011

Provider Update, October 2010

Provider Update, August 2009

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