



MASSACHUSETTS

Blue Cross Blue Shield of Massachusetts is an Independent Licensee of the Blue Cross and Blue Shield Association

## Medical Policy

# Electrical Stimulation Devices for Psychiatric and Neurological Conditions

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### Policy Number: 157

BCBSA Reference Number: N/A

NCD/LCD: NA

### Related Policies

- Cranial Electrotherapy Stimulation – CES and Auricular Electrostimulation, #[362](#)
- Outpatient Electroconvulsive Therapy, #[319](#)
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- Transcutaneous Electrical Nerve Stimulation (TENS), #[003](#)

### Policy<sup>1</sup>

#### Commercial Members: Managed Care (HMO and POS), PPO, and Indemnity Medicare HMO Blue<sup>SM</sup> and Medicare PPO Blue<sup>SM</sup> Members

Transcranial direct current stimulation devices (TDCS) are considered **INVESTIGATIONAL** for the treatment of all conditions including but not limited to brain and spinal cord injury, Parkinson's disease and behavioral health conditions such as major depressive disorder, anxiety, substance use disorders, and post-traumatic stress disorder (PTSD).

Transcranial alternating current stimulation (TACS) devices are considered **INVESTIGATIONAL** for the treatment of all conditions including Parkinson's disease, Alzheimer's, Seizure disorders, and behavioral health conditions such as major depressive disorder, anxiety, substance use disorders, and post-traumatic stress disorder (PTSD).

**INVESTIGATIONAL** devices include but are not limited to:

- The Brain Stimulator v3.0
- The Brain Driver v2.1
- APEX Type A
- OMNI Stimulator

- TCT TDCS Device
- Soterix 1x1
- Focus V2 (TES)
- Focus V3
- NeuroConn DC Stimulator PLUS
- Activa Dose II Caputron
- Foc.us V2.

Note: BCBSMA does not approve any medical devices that have not received FDA approval.

## Prior Authorization Information

### Inpatient

- For services described in this policy, precertification/preauthorization **IS REQUIRED** for all products if the procedure is performed **inpatient**.

### Outpatient

- For services described in this policy, see below for products where prior authorization **might be required** if the procedure is performed **outpatient**.

	Outpatient
Commercial Managed Care (HMO and POS)	This is <b>not</b> a covered service.
Commercial PPO and Indemnity	This is <b>not</b> a covered service.
Medicare HMO Blue <sup>SM</sup>	This is <b>not</b> a covered service.
Medicare PPO Blue <sup>SM</sup>	This is <b>not</b> a covered service.

## 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.*

### CPT Codes

There is no specific CPT code for this service.

### Description

Transcranial direct current stimulation (TDCS) devices neurostimulation to specifically targeted areas of the brain through low levels of constant electric currents. TDCS devices deliver cathodal (negative) stimulation or anodal (positive) stimulation via small electrodes placed on different regions of the scalp and are thought to influence the rate of neuronal activity.

Transcranial alternating current stimulation (TACS) devices deliver neurostimulation to specifically targeted areas of the brain with alternating electrical currents. The alternating currents are thought to change the rate of abnormal neuronal activity that may be related to a variety of behavioral and cognitive conditions.

TDCS and TACS are non-invasive, painless treatments that are being evaluated for a variety of conditions including, chronic pain, brain and spinal cord injury, Parkinson's disease, and psychiatric conditions such as major depressive disorder, substance use disorders and anxiety. TDCS and TACS devices can be used in the home setting or in a therapeutic setting under the direction of a physician. TDCS and TACS devices can be manually set to the desired electrical current and length of time. Recommended time for treatment is 20-30 minutes of neurostimulation per session. Results from the treatments depend on how long the neurostimulation is delivered.

Some of the devices used for TDCS include The Brain Stimulator v3.0™, the APEX type A™, and the Omni Stimulator. Other devices include the Activa Dose II, The Brain Driver v2.1, and the NeuroConn. Some of the devices come with software that help improve reproducible neurostimulation levels and headbands that hold the electrodes in place during treatment. TACS devices include Soterix 1x1, Starstim, and the Brain Stimulator™.

## Summary

Transcranial Direct Current Stimulation (TDCS) and Transcranial Alternating Current Stimulation devices are being investigated for a variety of conditions including chronic pain, brain and spinal cord injury, Parkinson's disease and psychiatric conditions including major depressive disorder, anxiety, and post-traumatic stress disorder.

Small randomized controlled trials and multiple case studies have evaluated the use of TDCS and TACS devices in Parkinson's and Alzheimer's disease, major depressive disorder, anxiety and post traumatic stress disorder (PTSD). While some of the studies showed small improvements in symptom reduction and increased mood, outcomes did not demonstrate clinically significant improvements in symptoms. The study designs and treatment protocols differed significantly and were not reproducible. The evidence is insufficient to determine the effects of this technology on health outcomes.

## Policy History

Date	Action
4/2019	New medical policy describing investigational indications. Effective 4/1/2019.

## 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

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## Endnotes

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<sup>1</sup> Based on expert opinion