Medical Policy
Electrostimulation and Electromagnetic Therapy for Treating Wounds

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Policy Number: 655
BCBSA Reference Number: 2.01.57
NCD/LCD: National Coverage Determination (NCD) for Electrical Stimulation (ES) and Electromagnetic Therapy for the Treatment of Wounds (270.1)

Related Policies
• Transcutaneous Electrical Nerve Stimulation – TENS, #003
• Non-Contact Ultrasound Treatment for Wounds, #657
• Negative Pressure Wound Therapy in the Outpatient Setting, #543

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

Electrical stimulation for the treatment of wounds, including but not limited to low-intensity direct current (LIDC), high-voltage pulsed current (HVPC), alternating current (AC), and transcutaneous electrical nerve stimulation (TENS), is INVESTIGATIONAL.

Electrical stimulation performed by the patient in the home setting for the treatment of wounds is INVESTIGATIONAL.

Electromagnetic therapy for the treatment of wounds is INVESTIGATIONAL.

Medicare HMO BlueSM and Medicare PPO BlueSM Members

BCBSMA covers electrical stimulation and electromagnetic therapy for the treatment of wounds for the following indications for Medicare HMO Blue and Medicare PPO Blue members in accordance with CMS NCD:
• Chronic Stage III or Stage IV pressure ulcers, arterial ulcers, diabetic ulcers, and venous stasis ulcers,
• When performed by a physician, physical therapist, or incident to a physician service.

BCBSMA does not cover electrical stimulation and electromagnetic therapy for the treatment of wounds for the following indications for Medicare HMO Blue and Medicare PPO Blue members in accordance with CMS NCD:
• As an initial treatment modality,
• For continued treatment if measurable signs of healing have not been demonstrated within any 30-day period of treatment,
• Unsupervised use of ES or electromagnetic therapy for wound therapy.

All other uses of ES and electromagnetic therapy not otherwise specified for the treatment of wounds remain at local contractor discretion.

Medical necessity criteria and coding guidance can be found through the link below.

**National Coverage Determinations (NCDs)**

National Coverage Determination (NCD) for Electrical Stimulation (ES) and Electromagnetic Therapy for the Treatment of Wounds (270.1)

**Note:** To review the specific NCD, please remember to click “accept” on the CMS licensing agreement at the bottom of the CMS webpage.

**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**.

| Commercial Managed Care (HMO and POS) | This is **not** a covered service. |
| Commercial PPO and Indemnity         | This is **not** a covered service. |
| Medicare HMO Blue℠                  | Prior authorization is **required**. |
| Medicare PPO Blue℠                   | Prior authorization is **required**. |

**CPT Codes / HCPCS Codes / ICD-9 Codes**

The following codes are included below for informational purposes. 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.

**HCPCS Codes**

<table>
<thead>
<tr>
<th>HCPCS codes:</th>
<th>Code Description</th>
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<tbody>
<tr>
<td>G0281</td>
<td>Electrical stimulation (unattended), to one or more areas, for chronic stage III and stage IV pressure ulcers, arterial ulcers, diabetic ulcers, and venous stasis ulcers not demonstrating measurable signs of healing after 30 days of conventional care, as part of a therapy plan of care.</td>
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<tr>
<td>G0282</td>
<td>Electrical stimulation, (unattended), to one or more areas, for wound care other than described in G0281</td>
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<tr>
<td>G0295</td>
<td>Electromagnetic therapy, to one or more areas, for wound care other than described in G0329 or for other uses.</td>
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</table>
Electromagnetic therapy, to one or more areas, for chronic stage III or stage IV pressure ulcers, arterial ulcers, diabetic ulcers, and venous stasis ulcers not demonstrating measurable signs of healing after 30 days of conventional care as part of a therapy plan of care.

Non-thermal pulsed high-frequency radiowaves, high peak power electromagnetic energy treatment device.

Electrical stimulation or electromagnetic wound treatment device, not otherwise classified.

Description

Standard Treatment

Conventional or standard therapy for chronic wounds involves local wound care, as well as systemic measures including debridement of necrotic tissues, wound cleansing, and dressing that promotes a moist wound environment, antibiotics to control infection, and optimizing nutritional supplementation. Avoidance of weight-bearing is another important component of wound management.

Electrostimulation

Since the 1950s, investigators have used electrostimulation to promote wound healing, based on the theory that electrostimulation may:

- Increase adenosine 5'-triphosphate concentration in the skin
- Increase DNA synthesis
- Attract epithelial cells and fibroblasts to wound sites
- Accelerate the recovery of damaged neural tissue
- Reduce edema
- Increase blood flow
- Inhibit pathogenesis.

Electrostimulation refers to the application of electrical current through electrodes placed directly on the skin near the wound. The types of electrostimulation and devices can be categorized into groups based on the type of current. This includes low-intensity direct current, high-voltage pulsed current, alternating current, and transcutaneous electrical nerve stimulation.

Electromagnetic Therapy

Electromagnetic therapy is a related but distinct form of treatment that involves the application of electromagnetic fields, rather than direct electrical current.

Summary

Electrostimulation (electrical stimulation) refers to the application of electrical current through electrodes placed directly on the skin. Electromagnetic therapy involves the application of electromagnetic fields, rather than direct electrical current. Both are proposed as treatments for wounds, generally chronic wounds.

For individuals who have any wound type (acute or nonhealing) who receive electrostimulation, the evidence includes systematic reviews, a meta-analysis, and RCTs. Relevant outcomes are symptoms, change in health status, morbid events, quality of life, and treatment-related morbidity. Systematic reviews of RCTs on electrical stimulation have reported improvements in some outcomes, mainly intermediate outcomes such as a decrease in wound size and/or the speed of wound healing. There are few analyses of the more important clinical outcomes of complete healing and the time to complete healing, and many of the trials are relatively low quality. The evidence is insufficient to determine the effects of the technology on health outcomes.

For individuals who have any wound type (acute or nonhealing) who receive electromagnetic therapy, the evidence includes 2 systematic reviews of RCTs (one on pressure ulcers and the other on leg ulcers) and
an RCT of electromagnetic treatment following Cesarean section. Relevant outcomes are symptoms, change in health status, morbid events, quality of life, and treatment-related morbidity. The systematic reviews identified a few RCTs with small sample sizes that do not permit drawing definitive conclusions. The evidence is insufficient to determine the effects of the technology on health outcomes.

### Policy History

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
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<tbody>
<tr>
<td>2/2018</td>
<td>New references added from BCBSA National medical policy.</td>
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<tr>
<td>10/2017</td>
<td>New references added from BCBSA National medical policy.</td>
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<tr>
<td>7/2017</td>
<td>Clarified coding information.</td>
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<tr>
<td>11/2015</td>
<td>New references added from BCBSA National medical policy.</td>
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<tr>
<td>7/2014</td>
<td>Updated Coding section with ICD10 procedure and diagnosis codes, effective 10/2015.</td>
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<tr>
<td>9/2009</td>
<td>BCBSA National medical policy review. No changes to policy statements.</td>
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### 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
1. Blue Cross and Blue Shield Association Technology Evaluation Center (TEC). Electrical stimulation or electromagnetic therapy as adjunctive treatments for chronic skin wounds. TEC Assessments. 2005; Volume 20:Tab 2.


17. Association for the Advancement of Wound Care (AAWC). Association for the Advancement of Wound Care guideline of pressure ulcer guidelines. Malvern, PA: AAWC; 2010.
