

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

Medical Policy

Noncontact Ultrasound Treatment for Wounds

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Policy: Commercial

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Policy Number: 657

BCBSA Reference Number: 2.01.79 (For Plan internal use only)

NCD/LCD: N/A

Related Policies

- Electrostimulation and Electromagnetic Therapy for Treating Wounds, #655
- Negative Pressure Wound Therapy in the Outpatient Setting, #543
- Noncontact Radiant Heat Bandage for the Treatment of Wounds, #656

Policy

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

Noncontact ultrasound treatment for wounds is considered INVESTIGATIONAL.

Prior Authorization Information

Inpatient

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

Outpatient

• For services described in this policy, see below for products where prior authorization <u>might be</u> <u>required</u> if the procedure is performed <u>outpatient</u>.

	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 SM	This is not a covered service.
Medicare PPO Blue SM	This is not 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

CPT codes:	Code Description
97610	Low frequency, non-contact, non-thermal ultrasound, including topical application(s), when performed, wound assessment, and instruction(s) for ongoing care, per day

Description

Ultrasound (US) delivers mechanical vibration above the upper threshold of human hearing (>20 kHz). US in the megahertz range (1-3 MHz) has been used to treat musculoskeletal disorders, often by physical therapists. Although the exact mechanism underlying its clinical effects is not known, therapeutic US has been shown to have a variety of effects at a cellular level, including angiogenesis, leukocyte adhesion, growth factor, collagen production, and increases in macrophage responsiveness, fibrinolysis, and nitric oxide levels. The therapeutic effects of US energy in the kilohertz range have also been examined. Although the precise effects are not known, the low-frequency US in this range may improve wound healing via the production, vibration, and movement of micron-sized bubbles in the coupling medium and tissue.

The mechanical energy from the US is typically transmitted to the tissue through a coupling gel. Several high-intensity US devices with contact probes are currently available for wound débridement. Low-intensity US devices have been developed that do not require coupling gel or other direct contact. The MIST Therapy System delivers a saline mist to the wound with low-frequency US (40 KHz). A second device, the Qoustic Wound Therapy System, also uses sterile saline to deliver US energy (35 KHz) for wound débridement and irrigation.

US is intended as an adjunct to standard wound care. Therefore, the evidence is needed that demonstrates US plus standard wound care provides superior wound closure outcomes compared with standard wound care alone.

The primary endpoints of interest for trials of wound closure are as follows, consistent with 2006 guidance from the U.S. Food and Drug Administration (FDA) for the industry in developing products for the treatment of chronic cutaneous ulcer and burn wounds¹.

- Incidence of complete wound closure.
- Time to complete wound closure (reflecting accelerated wound closure).
- Incidence of complete wound closure following surgical wound closure.
- Pain control.

Summary

Low-frequency ultrasound in the kilohertz range may improve wound healing. Several noncontact low-frequency ultrasound (NLFU) devices have received regulatory approval for wound treatment.

For individuals who have any wound type (acute or nonhealing) who receive noncontact low-frequency ultrasound therapy (NLFU) plus standard wound care, the evidence includes randomized controlled trials (RCTs) and systematic reviews. Relevant outcomes are symptoms, change in disease status, morbid events, quality of life, and treatment-related morbidity. The single, double-blinded, sham-controlled randomized trial, which included patients with nonhealing diabetic foot ulcers, had substantial methodologic flaws (eg, high dropout rate, baseline differences between groups) that limit the validity of the findings. In the remaining studies comprising the evidence base, all but 1 RCT comparing NLFU with standard wound care reported improved (statistically significant) results on the primary outcome with NLFU. However, these studies also had several methodologic limitations. Complete healing is the most clinically relevant outcome. None of the RCTs evaluating venous leg ulcers reported complete healing as

its primary outcome measure, and none had blinded outcome assessment. Only 1 RCT, which addressed split-thickness graft donor sites, reported on the proportion of patients with complete healing and had blinded outcome assessment. Another limitation of the body of evidence is that some standard of care interventions involved fewer visits than the NLFU intervention, and the differences in intensity of care resulting from this differential in face-to-face contact could partially explain the difference in findings between intervention and control groups. The evidence is insufficient to determine that the technology results in an improvement in the net health outcome.

Policy History

3/2024 Annual policy review. Description, summary, and references updated. Policy statements unchanged. 3/2023 Annual policy review. References updated. Policy statements unchanged. 1/2023 Annual policy review. PA information section clarified to include Medicare. 2/2022 Annual policy review. Description, summary, and references updated. Policy statements unchanged. 3/2021 Annual policy review. Description, summary, and references updated. Policy statements unchanged. 3/2021 Annual policy review. Description, summary, and references updated. Policy statements unchanged. 1/2021 Medicare information removed. See MP #132 Medicare Advantage Management for local coverage determination and national coverage determination reference. 3/2020 Annual policy review. Description, summary, and references updated. Policy statements unchanged. 3/2019 Annual policy review. Description, summary, and references updated. Policy statements unchanged. 2/2018 Annual policy review. New references added. 2/2017 Annual policy review. New references added. 3/2016 Annual policy review. New references added. 3/2016 Annual policy review. New references added. 3/2014 Annual policy review. New references added. 4/2014 Updated to add new CPT code 97610 and remove deleted code 0183T. 11/2011 Medical policy ICD 10 remediation: Formatting, editing and coding updates. No changes to policy statements. 12/2011 Annual policy review. Changes to policy statements. 12/2011 Reviewed - Medical Policy Group - Plastic Surgery and Dermatology. No changes to policy statements. 12/2010 Reviewed - Medical Policy Group - Plastic Surgery and Dermatology. No changes to policy statements. 12/2001 Reviewed - Medical Policy Group - Plastic Surgery and Dermatology. No changes to policy statements. 12/2009 Reviewed - Medical Policy Group - Plastic Surgery and Dermatology. No changes to policy statements. 12/2009 Annual policy review. No changes to policy statements. 12/2009 Annual policy review. No changes to policy statements. 12/2009 Annual policy review. No changes	Data	
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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

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