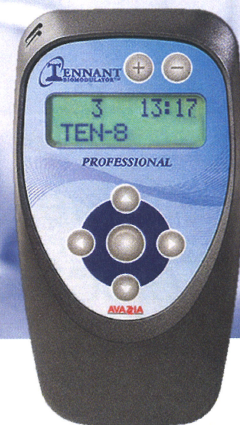


# Accelerate wound healing and increase perfusion potential

*Three U.S. medical centers are currently collaborating to evaluate the bio-electric neuromodulation device (FDA-cleared for pain relief) and assess its potential to increase perfusion in chronic wounds.*

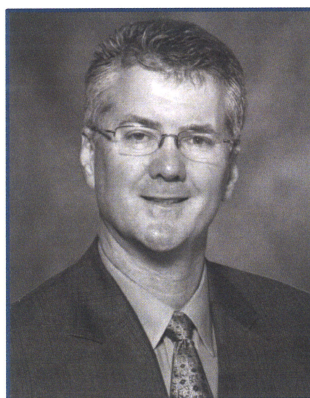


**Geoffrey C. Gurtner,  
MD, FACS**

Principal Investigator

Stanford University  
School of Medicine

*IRB Approval Received*

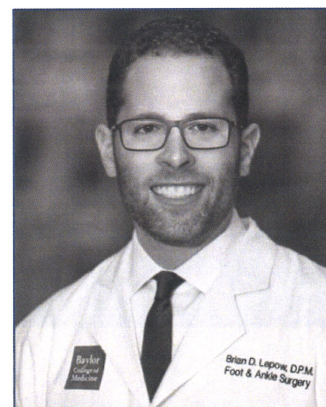


**Lawrence Lavery,  
DPM, MPH**

Principal Investigator

UT Southwestern  
Medical Center

*Actively Recruiting*



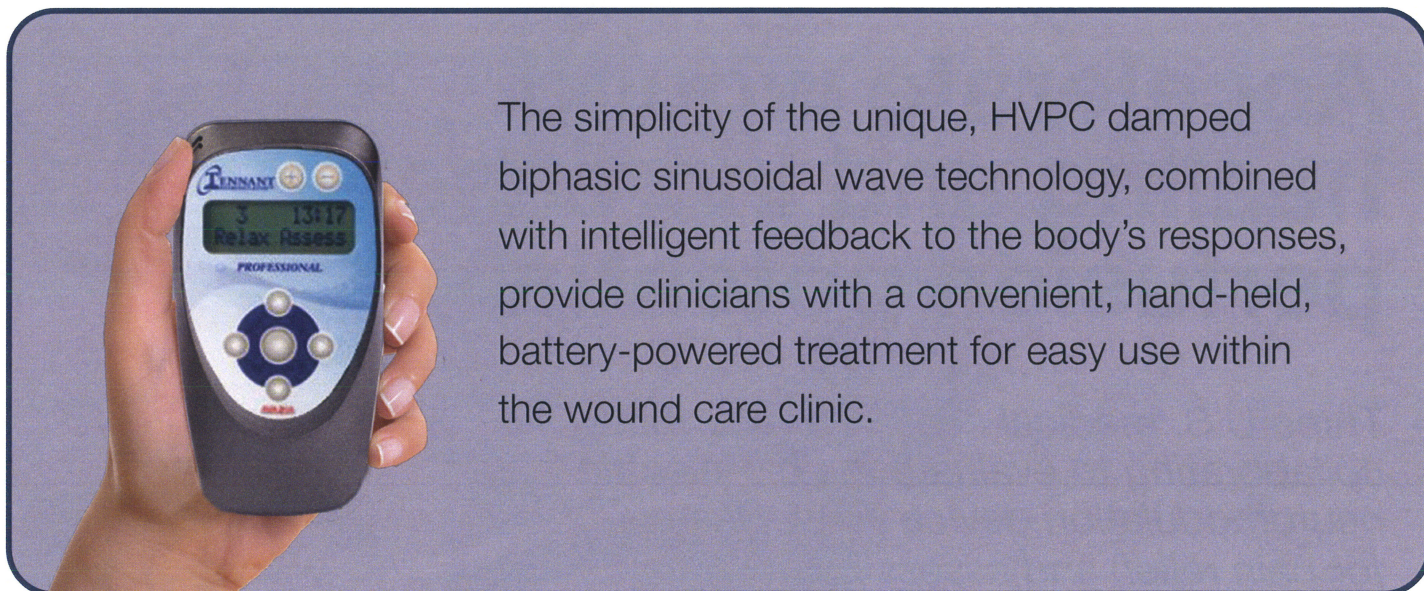
**Brian D. Lepow,  
DPM**

Principal Investigator

Baylor College  
of Medicine

*Actively Recruiting*





The simplicity of the unique, HVPC damped biphasic sinusoidal wave technology, combined with intelligent feedback to the body's responses, provide clinicians with a convenient, hand-held, battery-powered treatment for easy use within the wound care clinic.

*"There's really some pretty compelling evidence that electrical stimulation increases perfusion, that it accelerates wound healing in a variety of wounds, and that it improves some aspects of neuropathy...."*

Lawrence Lavery, DPM, MPH  
Podiatry CME

## UNIQUE NEUROLOGICAL WAVEFORM WITH BIO-ELECTRIC STIMULATION

HVPC damped, biphasic sinusoidal neuromodulation technology

- Non-invasive, hand-held device is ideal for clinic use
- FDA-cleared for pain relief, proven safe and effective
- Cybernetic feedback adjusts with body's responses
- Complex frequency patterns reduce accommodation
- Displays tissue conductance-impedance data
- Non-habitual therapy for chronic pain

**DISCLAIMER:** These devices have not been reviewed by the FDA for accelerated wound healing. The devices are FDA-cleared for pain relief.

These devices are used internationally to accelerate chronic wound healing and reduce patient pain. Nair, HKR, 2016, J. of Wound Care.



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# Adjunctive therapy accelerates wound healing in patient with non-healing DFU of 12 months

*Case study utilizes bio-electric neuromodulation technology (in-clinic and at-home) for four weeks. Achieves 93% reduction in wound size, 57% improvement in tissue oxygenation (O2SAT) and avoids major surgery.<sup>1</sup>*



## Case Study – Plantar DFU

Brian Lepow, DPM • Bijan Najafi, PhD, MSc – Baylor College of Medicine and iCAMP



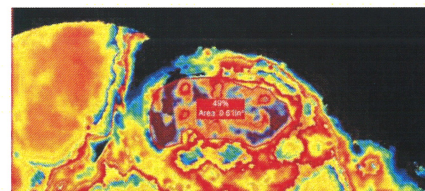
Pre-Treatment Baseline

**Area:** 5.4cm<sup>2</sup>  
**Perimeter:** 130mm  
**Length:** 37mm  
**Width:** 21mm  
**Max Depth:** 0mm

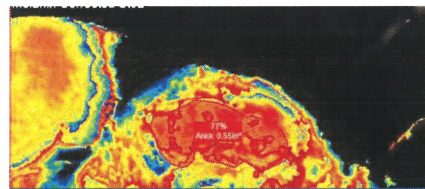


Post 4-Week Treatment

**Area:** 0.4cm<sup>2</sup>  
**Perimeter:** 41mm  
**Length:** 14mm  
**Width:** 4mm  
**Max Depth:** 1mm



Pre-Treatment Baseline  
49% O2SAT



Post 30-min. Treatment (in clinic)  
77% O2SAT

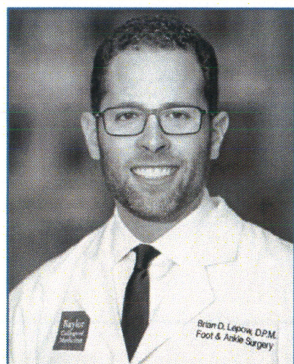
Wound size and tissue oxygenation were objectively documented using ARANZ Medical Silhouette® Star™ and KENT Snapshot<sub>NIR</sub>.

<sup>1</sup> Study registration: ClinicalTrials.gov Identifier: NCT03821675



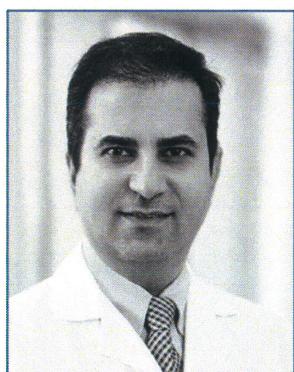


# Accelerating wound healing with bio-electric neuromodulation



*"Accelerated wound healing is key to improving outcomes for diabetic patients. We are collaborating with Avazzia in the fight to prevent amputations and improve the lives of people suffering with diabetic foot ulcers and chronic, non-healing wounds."*

Brian D. Lepow, DPM  
Assistant Professor, Division of Vascular Surgery and Endovascular Therapy  
Michael E. DeBakey Department of Surgery  
Baylor College of Medicine



*"It isn't easy. With neuropathy and pain, circulation and falls are quite complex. Contradicting conditions require careful and objective monitoring of continual changes. We are making progress in wearable technologies to address these challenges."*

Bijan Najafi, PhD, MSc  
Professor of Surgery; Director of Clinical Research, Division of Vascular Surgery and Endovascular Therapy  
Baylor College of Medicine

## BIO-ELECTRIC NEUROMODULATION

The Tennant Biomodulator™ Plus device is FDA-cleared for pain relief. The non-invasive, portable HVPC devices utilize the same microcurrent Bio-Electric Stimulation Technology (B.E.S.T.) platform with various frequency selections.

- Complex waveform incorporates high-voltage, pulsed, damped, biphasic sinusoidal microcurrent.
- Sophisticated frequency patterns in preprogrammed modes reduce accommodation and maximize energy transfer without increasing power levels.
- The output waveform shape constantly changes - corresponding to the change in the tissue's response. This results from the stimulation cybernetic loop created between Avazzia's device and the tissue.
- Convenient and cost-effective; no conductive solution is required.

Interim study results presented by Bijan Najafi, PhD, MSc, at DFCON 2019.  
avazzia.com | 214.575.2820

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