



## Empowering physicians managing chronic and post-operative pain

Delivering prescription-level pain relief for up to 12 hours.

**AVAZIA**

Reaction Technology for Medical Therapies

# SMART MICROCURRENT

NO DRUGS. NO SURGERY. JUST RELIEF.



## ▼ I'm Compact BUILT-IN ELECTRODES

I fit in the palm of your hand and I have built-in electrodes—you can use me anywhere, anytime without accessories.



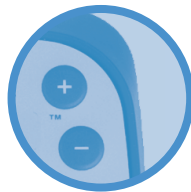
## ▼ I'm Flexible MODE SELECTION

I'll let you choose between modes—you can decide which mode you want based on your specific pain relief needs.



## ▼ I'm Adjustable POWER LEVEL

I offer you convenient power levels which you can adjust based on your personal sensitivity to the bio-electric stimulation.



## ▼ I'm Intuitive REACTION DISPLAY/MEMORY

I can detect the body's reaction to the treatment area and report the information. I also remember and record your device usage history.



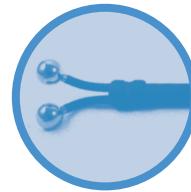
## ▼ I'm a Communicator LIGHTS AND SOUND

I communicate with you through lights that indicate mode cycle, and chirping sounds that indicate when your body's tissue is changing, or stopped changing.



## ▼ I'm Adaptable Y-ELECTRODE ACCESSORY

I'm compatible with a unique, hand-held Y-electrode accessory which helps you reach areas of the body that are hard to access.

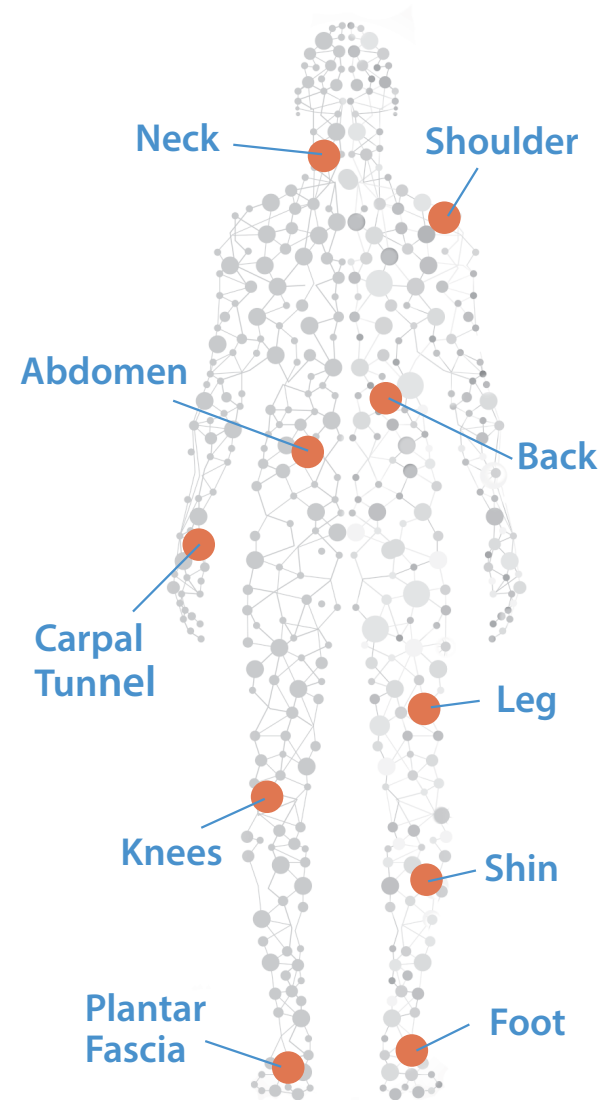


# Long-Lasting Relief of Chronic and Post-Op Pain



## ➤ **BEST-RSI® and PRO-SPORT ULTRA®**

Avazzia's prescription-level pain relief devices incorporate proprietary Bio-Electric Stimulation Technology (B.E.S.T.®) for the relief of chronic, acute, post-traumatic and post-operative pain associated with medically-diagnosed conditions.



# Prescription-Level Pain Relief for Up to 12 Hours

12  
HOURS

- ▶ Non-invasive, hand-held device is ideal for clinic and at-home use.
- ▶ FDA-cleared for chronic and acute pain relief – delivered safely and effectively.
- ▶ The waveform changes interactively with changes in the electrical characteristics of the tissue.
- ▶ Complex frequency patterns reduce accommodation.
- ▶ PRO-SPORT ULTRA device's reaction technology displays tissue conductance-impedance data.
- ▶ Non-habitual therapy developed for chronic and acute pain.

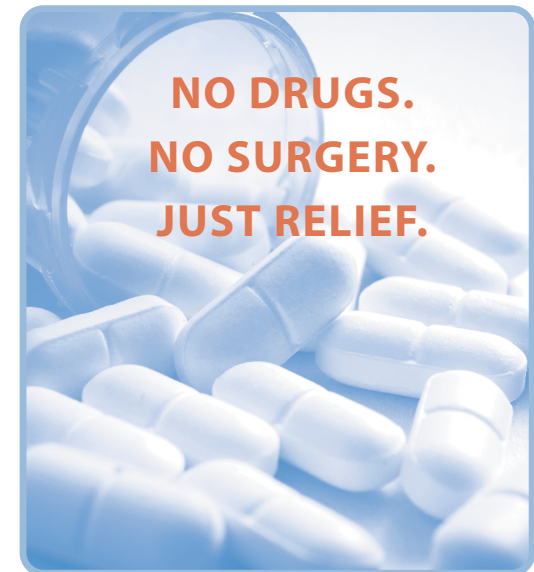


# Drug Free and Non-Habituating



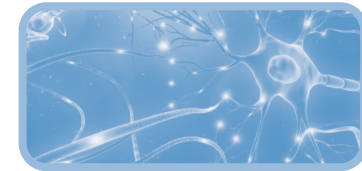
## ➤ Pain Therapy for At-Home Use

Avazzia's non-invasive devices provide prescription-level pain relief for up to 12 hours after treatment and are non-habit forming, safe and effective.

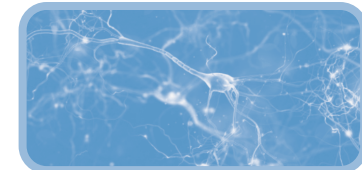


# Advanced Bio-Electric Stimulation

▼ 1. Avazzia's bio-electric stimulation devices relieve pain by sending small electrical impulses through electrodes placed on the skin to underlying nerve fibers.



▼ 2. Electrical stimulation of the nerve fibers can block a pain signal from being carried to the brain. If the signal is blocked, pain is not perceived.



▼ 3. This stimulation process also encourages the brain's own mechanism for suppressing pain—whereby natural chemical analgesics (neuropeptides and/or endorphins) are released.



▼ 4. The Avazzia device senses the body's response to each treated area, allowing for changes in the waveform—this reaction technology optimizes the pain relief process.



# Bio-Electric Stimulation Responds to Patient's Tissue Signal



## ➤ Interactive Changes of the Waveform— The Key Differentiator

The Bio-Electric Stimulation Technology (B.E.S.T.) platform enables interactive changes of the waveforms in response to changes in the electrical properties of the tissue—**the key differentiator compared to other conventional electrical stimulation products, such as TENS** and muscle stimulators. Avazzia's reaction technology measures and displays data related to tissue impedance, conductivity and rate of reaction. This unique process reduces accommodation and facilitates the display of real-time, actionable data for the patient and the physician.

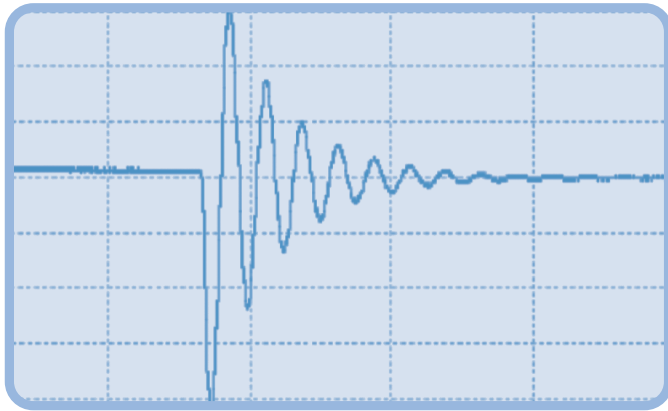


## Proprietary Reaction Technology

Each person's body is different.  
Our interactive waveform changes  
in response to the patient's  
particular tissue changes.

# Avazzia's Proprietary Waveform VS. Conventional TENS

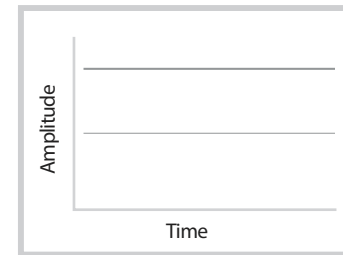
## Avazzia



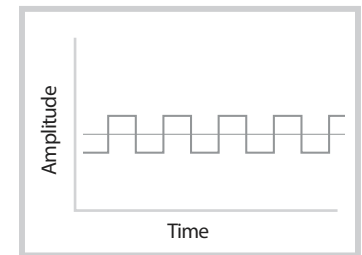
## Biphasic HVPC Damped Sinusoidal Wave

- ▶ Emits biphasic HVPC signals\*
- ▶ Delivers short duration pulses with a low-duty cycle
- ▶ Generates gentle microcurrent treatment

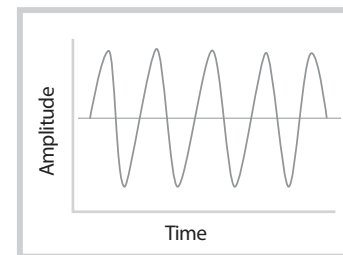
## Conventional TENS



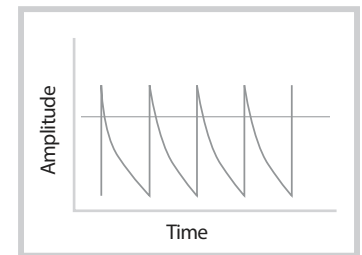
Direct Current (DC)



Square Wave (SW)



Alternating Current (AC)



Pulsed Current (PC)

\*Incorporating lower duty cycle with biphasic short duration pulses, the full benefit of unique high-voltage pulsed-current (biphasic HVPC) waveforms results in a safe and effective form of gentle microcurrent e-stim. Effective for the clinic, and safe and convenient for at-home therapy.



# Sophisticated HVPC Waveform



## ↗ Unlike Conventional TENS

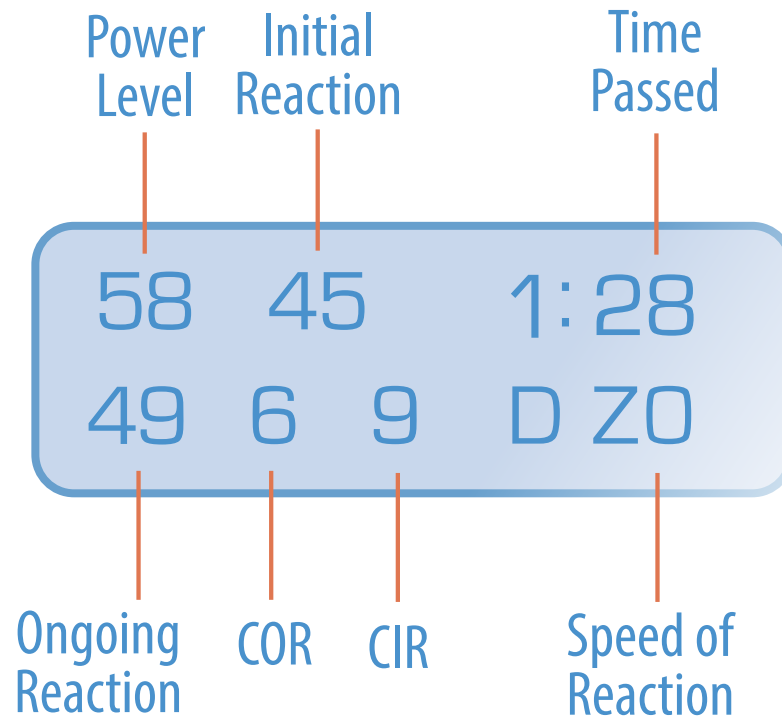
Avazzia is the first and only company to design these B.E.S.T. devices utilizing a unique type of advanced, sinusoidal waveform—unlike conventional TENS signals. Engineered and manufactured in Dallas, TX, our over-the-counter and prescription-level devices are FDA cleared and used for the symptomatic relief and adjunctive treatment for chronic, acute, post-traumatic or post-surgical pain.

### AVAZZIA'S SMART MICROCURRENT WITH PROPRIETARY B.E.S.T. TECHNOLOGY

### CONVENTIONAL TENS UNIT TECHNOLOGY

	AVAZZIA'S SMART MICROCURRENT WITH PROPRIETARY B.E.S.T. TECHNOLOGY	CONVENTIONAL TENS UNIT TECHNOLOGY
Proprietary Reaction Technology	✓	✗
Effective pain relief up to 12 hrs after treatment	✓	✗
HVPC, damped, asymmetrical, biphasic sinusoidal waveform	✓	✗
Built-in stainless steel electrodes (also works with accessories)	✓	✗
Modifies waveform to reduce habituation or accommodation	✓	✗
Drug free and non-invasive pain relief	✓	✓

# Real-Time Data of Therapy Progress



## ▼ Promoting Patient Compliance

Avazzia's smart microcurrent devices identify the optimal areas for treatment, by sensing and displaying the tissue's changing electrical properties. This data assists physicians in understanding their patient's progress and encourages compliance with their treatment plan.

# Reduced Staff Resources and Fewer Office Visits



## ➤ Reduce or Eliminate Pain Medications

Managing chronic and acute pain is a time-consuming process for patients and their healthcare providers. Once a patient's pain is managed optimally, more time is available to address other patient concerns.

Consistent use of Avazzia's microcurrent technology is shown to reduce, or some cases, eliminate the need for pain medications. In addition, patients with reduced pain require fewer office visits to address this concern.



“Effective clinically with a user-friendly design making at-home application simplistic for our patients thus increasing compliance.”

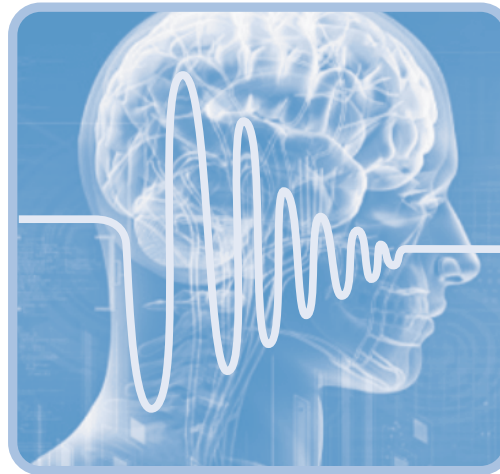
## Dr. Brian Lepow Baylor College of Medicine

Dr. Brian Lepow and the research team at Baylor College of Medicine iCAMP division are currently evaluating Avazzia's bio-electric device to assess its potential to expedite wound healing by increasing perfusion in chronic wounds (study device is FDA-cleared for pain relief).

Baylor College of Medicine is an affiliate of the Houston VA.

**AVAZIA**

# Avazzia Timeline



➤ **2004**

Avazzia is  
Founded

➤ **2007**

FDA Clearance  
for Rx Pain Relief  
  
CE Certification

➤ **2014**

FDA Clearance  
for Reaction  
Technology

➤ **2017**

FDA Clearance  
for OTC  
Pain Relief

➤ **2020**

Three U.S.  
Clinical Trials  
  
GSA Contract

➤ **2006**

ISO 13485 Quality  
Management  
System

➤ **2010**

Health Canada  
License

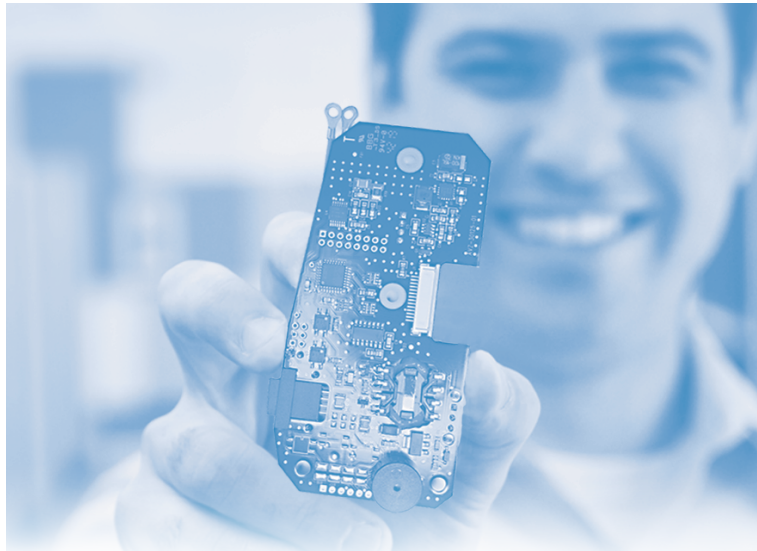
➤ **2016**

First Published  
Wound Care  
Clinical Study

➤ **2019**

MDSAP Quality  
Management  
System Certification

# Strong History of Passion and Medical Innovation



**SMART**  
**MICROCURRENT**  
NO DRUGS. NO SURGERY. JUST RELIEF.

## ➤ Our Story

"I've been an inventor and design engineer all my life," says Tim Smith, founder and CEO of Avazzia. "After I retired from 21 years at Texas Instruments, I met someone being treated for severe diabetic foot pain. He was worried about amputation. My engineering brain immediately began to imagine potential solutions. We developed our first Avazzia electric stimulation device in 2004 and it's been an exciting road ever since."

## ➤ Our Mission

To deliver drug-free, non-invasive solutions for physicians and patients managing acute, chronic, intractable, post-traumatic and post-operative pain.

## ➤ Who We Are

We are a team of engineers, designers and industry professionals, who is passionate about empowering medical professionals and individuals with scientifically-advanced electric stimulation solutions—so everyone may experience the freedom and beauty of health. Avazzia's leadership team, each with 20 years of experience in their field, champions colleagues to embrace the core values of integrity, knowledge and a "fire in the belly" to radically improve the health of people across the globe. We are focused on hard work, honest relationships and delivering superior solutions for healthcare professionals and the patients they serve.





## ➤ The Power of Pain Relief in the Palm of your Hand

Providing pain relief without drugs or surgery since 2004, Dallas-based Avazzia designs, manufactures, markets and distributes scientifically advanced, medical devices for the management of pain. Designed and manufactured in the U.S., Avazzia's medical devices are sold across the globe.

Avazzia's products are U.S. Food and Drug Administration 510(k) cleared and incorporate patented bio-electric stimulation technology (B.E.S.T).



Advantage!



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Empowering physicians managing  
chronic and post-operative pain.

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