

DRUG FREE • NON-INVASIVE • PAIN RELIEF

AVAZIA
Innovation in Health & Wellness Technology



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AVAZZIA PAIN RELIEF WITHOUT DRUGS



AVAZZIA IN THE CLINIC



AVAZZIA

DRUG FREE • NON-INVASIVE • PAIN RELIEF

“ After receiving my first treatment with the Avazzia Pro-Sport, I felt more energized and a sense of well-being. I slept better for the first time in 8 months. After my second treatment I gained feeling back in a scarred area that I had lost for several years, as well as, an enhanced sense of clarity, better balance and a more positive outlook on life. So if you are seeking better health through knowledge and practice I recommend you try some treatments, and draw your own conclusion. I have not been paid or hired to sell this product or to provide this testimony. ”

Kauila Clark, Kahuna at large,
Immediate Past Chair
2014-2015 NACHC
Board of Directors



**WAIANAE COAST
COMPREHENSIVE
HEALTH CENTER**
www.wcchc.com

“ Community Health Center of Lubbock has been searching for an effective method to deal with our unfunded clients lower back pain. We are excited that Avazzia has a solution that we are working to incorporate into our practice. ”

Michael Sullivan, MBA, CPA
Chief Executive Officer
Community Health
Center of Lubbock



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ABOUT THE COMPANY

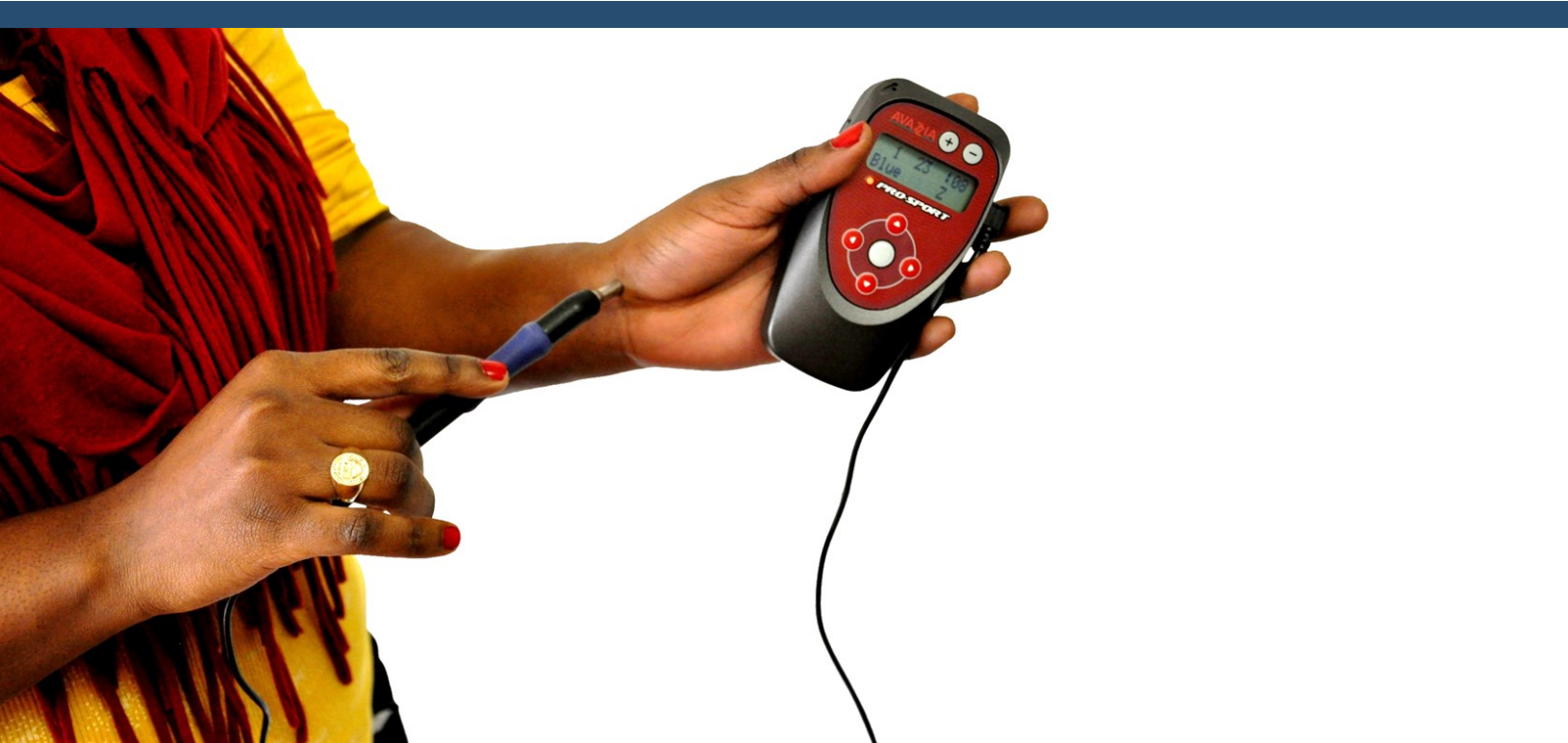
Mission: To provide the highest quality non-pharmaceutical, non-surgery relief of pain.

Vision: That everyone may experience the freedom and beauty of health.

Philosophy: Avazzia aims to accomplish its mission and vision by following Biblical principles while developing, manufacturing and selling its line of BEST products.

Tim Smith, Avazzia's founder, believes people cannot separate their personal convictions from their professional lives. He believes the foundation to his business is treating others – whether Avazzia employees, customers, suppliers or distributors – humbly and with respect. “My advice is not to focus on outperforming others,” Smith says. “Focus instead on improving your own performance quarter over quarter. A small improvement every quarter will eventually get you to the top of the ladder.”

Smith asks that all Avazzia employees and business partners embrace the core values of integrity, knowledge and a “fire in the belly.” He also wants them to have fun every day at work. To that end, Avazzia's team is focuses on hard work, honest relationships and superior results for its products and customers.



AVAZZIA CLEARANCES

CE Mark



US FDA Clearances

US FDA cleared as TENS For symptomatic relief and management of chronic, intractable pain, and adjunctive treatment in the management of post-surgical and post-traumatic pain



Health Canada License

HealthCanada license for TENS and Muscle Stimulation



ISO 13485 Certified Quality Management System for Medical Products

CB Safety Certificate

Includes:

EN 60601-1 General Safety for Medical Devices

EN 60601-1-2 EMC for Medical Devices



US Patents and Patents Pending



Made in the USA with domestic and foreign parts in an FDA registered manufacturing facility



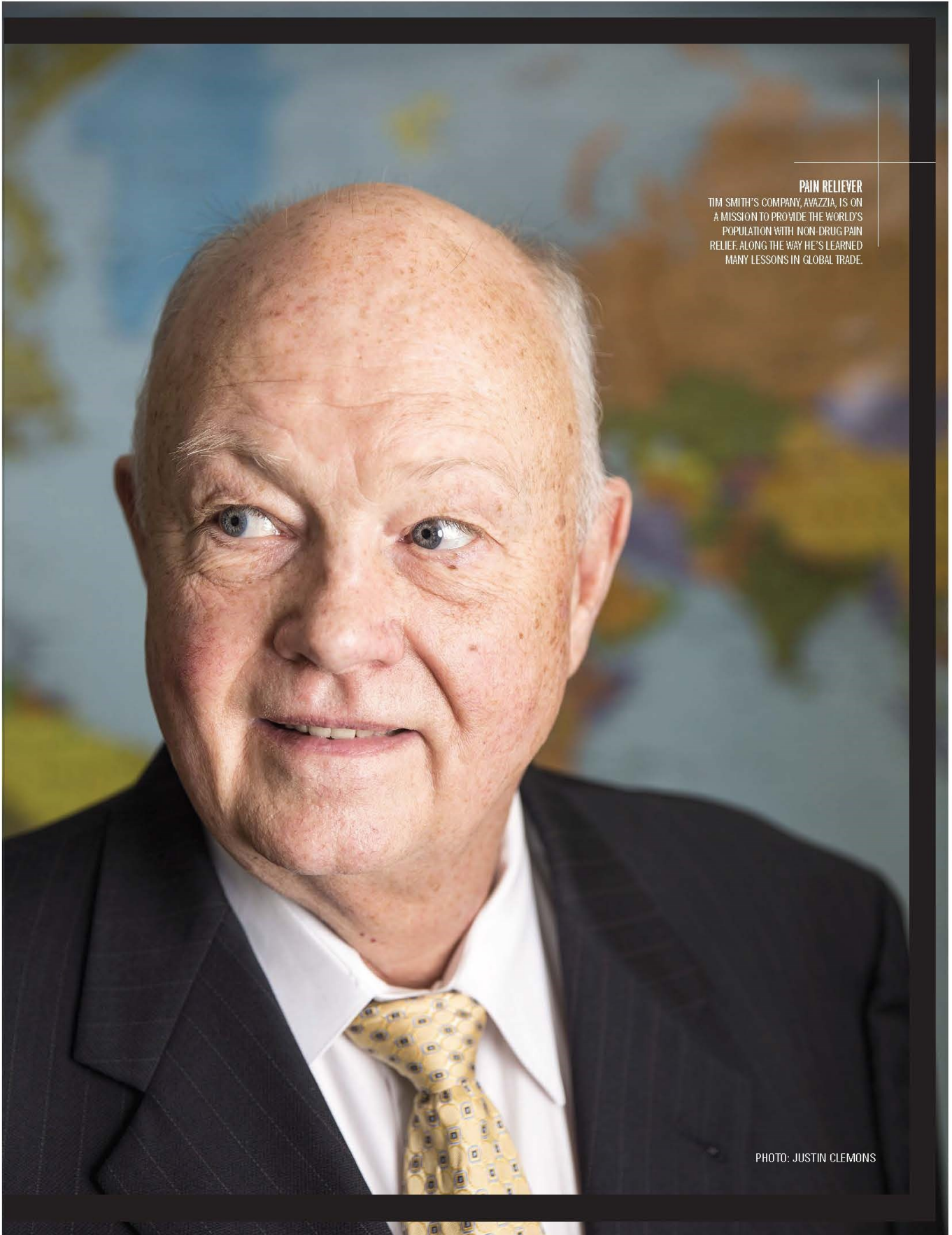
TRADE THERAPY

TIM SMITH IS AN INTERNATIONAL BUSINESS VETERAN WHOSE COMPANY, AVAZZIA, SELLS THERAPEUTIC MEDICAL DEVICES WORLDWIDE. WHAT HE HAS LEARNED ALONG THE WAY MAY ALLEVIATE SOME OF YOUR GLOBAL VENTURE'S GROWING PAINS.

by John W. Mitchell

FEATURED IN:





PAIN RELIEVER

TIM SMITH'S COMPANY, AVAZZIA, IS ON A MISSION TO PROVIDE THE WORLD'S POPULATION WITH NON-DRUG PAIN RELIEF. ALONG THE WAY HE'S LEARNED MANY LESSONS IN GLOBAL TRADE.

PHOTO: JUSTIN CLEMONS



GLOBAL TRADER PROFILE TIM SMITH

Years with company: 10

College: Southern Methodist University

First job out of school: Semiconductor chip design engineer at Texas Instruments

Logistics Partners: FedEx; UPS

Favorite hotel in the world: Shangri-La, Singapore

Company bank: JP Morgan Chase

Favorite international airline: American Airlines

Weekend hobbies: Family activities and fishing

Favorite business magazine: *The Economist*

IF TIM SMITH KNEW IN 2004 WHAT HE KNOWS NOW, he would have first sold his line of microcurrent neuromodulation devices in Europe. The handheld devices, about the size of a computer mouse, are a new twist on an old principle that relays electrical impulses to relieve pain and encourage healing.* In Europe the devices are classified as a consumer device—as opposed to a medical device—and are available without a prescription.

“My revenue ramp-up would have been much faster compared to the U.S. market, where a doctor’s order is required,” says Smith, the founder and CEO of Avazzia, based in Dallas. Smith is 70 and speaks like a man who knows his values and is confident in them. He says marketing to doctors requires U.S. Food and Drug Administration (FDA) approval and an intense one-on-one effort to demonstrate to physicians that a new therapy offers good patient outcomes. This is one of many lessons he has learned in the past 10 years selling his product globally. Even for an experienced former Texas Instrument (TI) senior executive who had profit-and-loss responsibility for overseas manufacturing plants, there is always something new to learn about successful exporting. In an upcoming trip to Asia, he will work for the second time to open the Chinese market.

“The first time I tried a few years ago I hooked up with a distributor group who I later realized expected under-the-table payments,” he recounts. “I don’t pay bribes. It’s against my ethics and it’s a violation of the U.S. Foreign Corruption Act,” he says. He has had recent success in India, where the U.S. Commerce Department’s Gold Key Matching Service program offered him several pre-vetted possible distributor contacts.

“One of the gentlemen and I hit it off right away. And because he had been screened in advance, I knew his values and mine were a good business match. I can’t say enough good things about the Gold Key program.” (See sidebar.) The company recently made its first product shipment to India.

Smith says that something he learned well at TI was that when you run into a problem, go to the locals for their suggestions. This is a lesson he has relied on in Malaysia.

“In Malaysia, 30 percent of the population are not native, such as Chinese or Indian, but they control 80 percent of the wealth. So you work a lot with this non-native population,” he says. “But not always. To get our products in Malaysian hospitals, I learned it is imperative to work with a Bumiputera, or a native-born contact. Bumiputera, a Sanskrit word, translates to ‘prince (or son) of the soil.’ So it’s very important to understand these kind of distinctions depending upon the market you target.”

For Smith, successful business is about good relationships, especially globally. This has enabled him to create vital partnerships throughout the world, including with research foundations and medical schools in Malaysia and Romania. He said it is absolutely vital not to act like an American know-it-all when cultivating new markets but to be sincerely respectful. Smith follows this strategy implicitly, to the point where he is often asked if he is a minister.

“I think that indicates there is something about my demeanor that implies honesty and character,” he speculates. But invariably, he says, there will be misunderstandings in overseas-market relationships.

“You have to really watch people,” Smith cautions. “You can tell when you’ve screwed up and done something culturally insensitive by the look on their face. The key is to apologize immediately, then figure out what mistake you made so you don’t do it again.”

As an example, he cited two instances in the Philippines when he was with TI. He learned very quickly that to point at someone with a raised finger, as is done in America to indicate you need them, is very offensive in the Philippines. Instead, the custom is to point toward the ground. Smith also told of an American engineer who worked for him who was on a trip to a TI plant in the Philippines. The exec kept referring to an English slang word for transistor adhesive but was also a local slang word for a body part.

“He figured it out when every time he said the word, the female employees either snickered or looked appalled,” Smith says.

“In Asian markets especially, the best answer you can give is ‘I don’t know,’ rather

* The claim “encouraging healing” is permissible in some countries outside the U.S., but not in the U.S. per FDA regulation.

than make something up," he advises. "Because then when you give an answer you *do* know, you will be believed and it helps establish trust." He does not speak a second language, noting that English is the language of business worldwide.

Smith's line of 15 electric stimulation products gives a modern update to an old idea. Its history can be traced back to ancient Egyptians who used electric eels for revival and on through to the late 1800s, when the newly invented electrical current was used to make all sorts of wild, unsubstantiated medical claims. But for the past two decades the standard has been Transcutaneous Electrical Nerve Stimulation (TENS). Smith explains that his devices also place electric currents through the skin, but that is where the similarity with TENS ends.

"Most TENS units are designed to overwhelm the nerve with too much current, causing it to shut down to reduce pain. Avazzia devices deliver small amounts of current at a higher voltage and promote peptide production to help relieve pain chemically," he explains. "The neuropeptide response we get equals a morphine dump into the affected area, without the side effects that come with narcotic pain medicines."

Avazzia works on what are known as C-fibers in the muscles as opposed to A- and B-fibers impacted by TENS, according to the company's website. And because it delivers a small amount of current, it can be powered with two AA batteries as opposed to plugging into house current or 9-volt and other larger batteries.

Although ongoing medical partnerships overseas support the notion that Avazzia devices promote healing, the company cannot make that claim in the United States. But Smith says he supports FDA standards for medical-device approval.

"Our global customers appreciate the fact that we have FDA approval for pain relief. FDA approval is highly regarded in the rest of the world," Smith says. He hopes to conduct U.S. clinical studies on healing, although stateside studies are very expensive.

But Avazzia does obtain other standard endorsements that are recognized around the globe. "In India we give the devices to the medical schools and they produce very

credible medical studies accepted in most of the world," Smith says. He adds that in India, hospital pain wards have up to 4,000 patients and the department heads are not happy with the available pain-management options.

"They don't have the money to use narcotic pain meds, and over-the-counter meds like acetaminophen can have long term effects on the liver," he notes.

Smith was motivated to invent his devices when he saw a neighbor suffering from neuropathy foot pain due to diabetes. He had recently left TI after 21 years and was looking for his next project. When his friend began reporting much better pain relief, his development tinkering led him to found Avazzia in 2004. He quickly added former TI senior executives with experience in developing and selling "small gadgets you carry around in your hand" and who are trained in the TI tradition to think strategically with every process. He also hires veterans and likes to have some interns around for their energy.

"I look for people with honesty and integrity who are really knowledgeable in their field. I also want self-starters and people who understand it is important to have fun at work," Smith says.

Rickey Puckett, Avazzia's comptroller and accountant, is a good example. A 22-year Air Force veteran, he also handles shipping for the company. Puckett says he considers shipping to be a function of his duties to control expenses. The company recently switched nearly exclusively to FedEx for an estimated savings of \$10,000 annually. He stresses that there are still some countries where they will continue to use UPS, depending upon the in-country delivery network that performs best. Avazzia's handheld products are relatively easy to ship and are packed to withstand a drop from shoulder-height to the floor. Puckett reports that Customs is the company's biggest challenge. Some of its clients use freight forwarders such as ClearFreight to both batch orders for a better shipping price and to expedite and reduce Custom issues.

"They email me the Customs forms, I fill them out and then a third-party picks them up for the freight forwarder," Puckett explains. "In South America, for example, we've learned it's really critical to have

THE MAGIC OF GOLD KEY

THE U.S. COMMERCIAL SERVICE'S GOLD KEY MARKETING SERVICES

IN MEDICINE, AN ACCEPTED TRUTH IS IF YOU NEED AN

operation, go to a doctor who does a lot of those procedures. The same thinking applies to global trade. The Gold Key Matching Services are provided through the International Trade Administration's U.S. Commercial Service (through the U.S. Department of Commerce). The program arranges appointments for U.S. business leaders with "pre-screened overseas agents, distributors, sales representatives and business partners." The program saves time, money and uncertainty by assisting with travel, accommodations and interpreter services.

Many companies have benefitted from this program. This includes Sirchie (Youngsville, N.C.), a manufacturer of crime-scene materials used by law enforcement throughout the world. Its Gold Key Service contact resulted in a \$1.1 million sale to the Brazilian government. X-Spine Systems Inc. (Dayton, Ohio) netted a deal worth \$200,000 for its medical-implant devices from the United Kingdom. And Karp Associates (Maspeth, N.Y.) shipped an initial \$130,000 order of its custom-access doors to a Saudi business within nine months of its initial meeting.

The U.S. Commercial Service operates in more than 80 countries. To contact a representative, visit export.gov/eac.



PAIN IS ONLY SKIN-DEEP
AVAZZIA HAS 15 ELECTRIC STIMULATION PRODUCTS THAT PLACE ELECTRIC CURRENTS THROUGH THE SKIN TO RELIEVE PAIN.

someone there to walk the shipment through Customs. There is something about products with wires that are labeled medical devices that creates difficulties in some countries." By contrast, he says, India and Canada are relatively simple destinations for shipment.

With about a third of the world's population suffering from chronic pain at any given time, Smith's vision is to place one of his Avazzia units in every household in the world.

"The U.S. has 5 percent of the population of the world, but we use 80 percent of narcotic pain meds in the world," says Smith. He cites the side effects of narcotic pain relievers—including addiction or overdose—then notes that for the rest of the world his device is a lower-cost, more-effective solution for pain management.

Avazzia manufactures its product line, which includes applications for cosmetic and veterinary use, in Dallas. On the company website, the devices sell for between \$400 and \$3,590, depending upon the application. A few accessories are made in Taiwan. Smith feels there are unique sales benefits to manufacturing stateside, where consumer safety standards are perceived to be among the best in the world. He also says that the global clinical community is used to seeing many medical research and study papers out of Dallas, which is home to some of the most respected medical institutions in the world. This includes MD Anderson, where the first artificial heart was developed, and Baylor Medical Institute, which has a network of more than 3,000 board-certified physicians. At any given time, BMI has 500 ongoing active research investigations for drug, device and vaccine studies.

"People around the world know that

Texas is different from the rest of the United States and that is mostly good," Smith says wryly. He adds that the people of Canada, where he also easily exports his product under NAFTA, are a lot like Texans.

"They are former cowboys who are now drilling oil."

Currently, Avazzia exports account for 10 percent of sales. His goal is to grow that to 25 percent in Asia and 25 percent in Europe. He says the company is working on a web-based plan in Europe. "Right now the Internet outsells what Walmart sells every day and is growing faster. There is a huge opportunity in that trend," he explains. He also says that he does not think European companies can develop a competing product that could be marketed at the same selling price. "European countries have expensive social programs that are paid for by taxes at various business and retail levels. This drives up prices on European goods. European consumers have demonstrated they will choose a lower-cost import product." He says this is a good opportunity for Avazzia in the European market.

Smith is a big believer in his people, talking with pride about how engineering interns he mentored at TI went on to work on the Lunar Lander project and move up to vice presidents for TI. While he recounts this experience, he does not mention that he also worked on successful components projects for the Lunar Lander and Apple computers earlier in his career.

To ensure the company's viability when he may not want to or cannot serve as CEO, he makes sure his senior team is all trained to wear multiple hats.

"When I'm out of town, the company still runs," he says proudly. ■



Count On MOL.

Performance you can count on.

GLOBAL

OPERATIONS

APR. - JUN. 2014

Vessel On-Time Performance	
Asia-U.S. West Coast	98%
Asia-U.S. East Coast	58%
Transatlantic	30%
Asia-Europe	46%
Asia-Mediterranean	N/A*
Asia-East Coast	
South America	72%
Asia-Mexico/West Coast	
South America	67%
Intra Asia	62%

SAFETY

JAN. - AUG. 2014

Long-Time Operational Stoppage	5
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ENVIRONMENTAL**

FY 2013 vs. FY 2012

Carbon Dioxide (CO2) Emissions per TEU-Mile	↓ 4.5%
Nitrogen Oxide (NOx) Emissions per TEU-Mile	↓ 4.5%
Sulfur Oxide (SOx) Emissions per TEU-Mile	↓ 6.0%

NORTH AMERICAN

OPERATIONS

AUG. 2014

In-Terminal Truck Turn Time	
Jacksonville	16 min.
Los Angeles	35 min.
Oakland	24 min.

CUSTOMER SERVICE

AUG. 2014

Lost Calls	2.04%
Phone Wait Time	16 seconds
U.S. Export B/L Documentation Completion Rate	96.87%
Documentation Accuracy	
U.S. Export	98.65%
Asia to U.S.	99.53%

EDI

AUG. 2014

Message Processing Without Failure	95.8%
EDI Uptime	99.2%
Customer Setup Time	48-hrs
Customer Scorecard Compliance	95.7%

* No MOL ships deployed since April 2014.

** MOL has also established a target to reduce CO₂, NO_x and SO_x emissions by 10% by FY2015 vs. FY2009.

Tim Smith, CEO and Founder



Tim Smith, founder and principal designer of Avazzia technology, had decades of engineering design experience and success at Texas Instruments before starting his medical devices company.

“I’ve been an inventor and design engineer all my life,” Smith says. “I retired from TI but my brain didn’t retire. I met someone who was being treated for foot pain because of diabetes and who was worried about amputation. I could immediately see in my brain how to design a product to make treatment better and more effective.”

What has evolved since 2004 is a line of Avazzia products that includes the BEST-Pro™ hand-held device, available by prescription and cleared by the FDA for noninvasive, non-pharmaceutical long-lasting pain relief.

“When I was at TI, I worked on products that changed lives and industries in really dramatic ways,” Smith says. Some of his TI products included the logic chips that assisted the Apollo lunar

modules to safely land on the Moon and return to Earth; technology used extensively in military jets, including the F-14, F-15, B1 and B2; and micro-technology that totally transformed the telecom industry. Smith also invented the chips used to develop the first Apple computer and IBM PC.

He says Avazzia products are life-transforming as well – providing long-term pain relief without invasive procedures. Medical doctors and chiropractors have used Avazzia products to mitigate intractable back pain, improve rehabilitation after knee surgery and reduce the impact of carpal tunnel syndrome.

“One of the issues many doctors are dealing with is they don’t want to prescribe various pain pills or medications over a long-term period,” Smith said. “Not only is that an open-ended cost for insurance companies, there are all sorts of issues with ongoing use. And surgery carries its own issues,” Smith says.

“We know from people who are using Avazzia products that they have experienced pain relief to the point where they can reduce or eliminate the need for either of those therapies. And that is about as transformational as you can get.”

Smith, who earned a bachelor’s and master’s degree in electrical engineering from Southern Methodist University, started his company in a spare bedroom of his Dallas home in 2004. It has grown to more than 15 employees. Avazzia products are developed and manufactured in Texas and sold in the U.S., Canada and Asia. Avazzia holds four patents.

What is Chronic Pain?

While acute pain is a normal sensation triggered in the nervous system to alert you to possible injury and the need to take care of yourself, chronic pain is different. Chronic pain persists. Pain signals keep firing in the nervous system for weeks, months, even years.

There may have been an initial mishap -- sprained back, serious infection, or there may be an ongoing cause of pain -- arthritis, cancer, ear infection. Some people suffer chronic pain in the absence of any past injury or evidence of body damage. Many chronic pain conditions impact older adults. Common chronic pain complaints include headache, low back pain, cancer pain, arthritis pain, neurogenic pain (pain resulting from damage to the peripheral nerves or to the central nervous system itself).

A recent market research report indicates that more than 1.5 billion people worldwide suffer from chronic pain and about 3 to 4.5 percent of the global population suffers from neuropathic pain, with incidence rate increasing in conjunction with age. (1)

Condition	Number of Sufferers in US	Source
Chronic pain	100 million	Institute of Medicine/ The National Academies
Diabetes	25.8 million (includes diagnosed and undiagnosed estimates)	American Diabetes Association
Carpal tunnel syndrome	8 percent of US workers	National Institute for Occupational Health and Safety, 2013
Back pain	65 million	National Centers for Health Statistics, 2006
Pain severe enough to disrupt sleep nights/week	42 million	National Sleep Foundation, 2000

The Burden of Pain on Every Day Life

The total annual incremental cost of health care due to pain ranges from \$560 billion to \$635 billion (in 2010 dollars) in the United States, which combines the medical costs of pain care and the economic costs related to disability days and lost wages and productivity. (2)

More than half of all hospitalized patients experienced pain in the last days of their lives and although therapies are present to alleviate most pain for those dying of cancer, research shows that 50 to 75 percent of patients die in moderate to severe pain. (3)

Commonly-Reported Pain Conditions

When asked about four common types of pain, respondents of a National Institute of Health Statistics survey indicated that low back pain was the most common (27 percent), followed by severe headache or migraine pain (15 percent), neck pain (15 percent) and facial ache or pain (4 percent). (4) Back pain is the leading cause of disability in Americans under 45 years old. More than 26 million Americans between the ages of 20-64 experience frequent back pain. (4)

Key Findings from the 2006 Voices of Chronic Pain Survey (5)

MICROCURRENT FOR HEALTHCARE

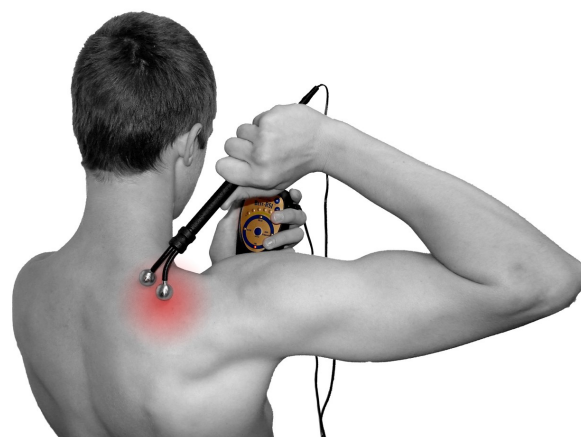
A 2006 survey conducted for the American Pain Foundation and sponsored by Endo Pharmaceuticals evaluated the impact that chronic pain had on 303 chronic pain sufferers who sought care from their physician and were currently using an opioid to treat their pain.

- Control Over Chronic Pain: More than half of respondents (51 percent) felt they had little or no control over their pain.
- Six out of ten patients (60 percent) said they experience breakthrough pain one or more times daily, severely impacting their quality of life and overall well-being.
- Impact on Quality of Life: Almost two-thirds (59 percent) reported an impact on their overall enjoyment of life.
- More than three quarters of patients (77 percent) reported feeling depressed.

Pain in Children: According to the National Health and Nutrition Examination Survey (NHANES) data, 17 percent of U.S. children, aged 4-18, experience frequent or severe headaches, including migraine, over the course of a year. Before puberty, boys and girls have headaches at approximately the same rate, but after 12, the rate of recurrent and severe headaches rises among girls. (6)

Summary Health Statistics for U.S. Adults: National Health Interview Survey, Department of Health and Human Services Report, 2009 (7)

- Women were more likely to experience pain (in the form of migraines, neck pain, lower back pain, or face or jaw pain) than men. Women were twice as likely to experience migraines or severe headaches, or pain in the face or jaw, than men.
- The percentage of person experiencing migraines or severe headaches was inversely related to age. Twenty percent adults aged 18-44 years experienced a migraine or severe headache in the 3 months prior to the interview compared with 15 percent of adults aged 45-64, 7 percent of adults aged 65-74, and 6 percent of adults aged 75 and over.
- Adults aged 18-44 years were less likely to have experienced pain in the lower back during the 3 months prior to the interview compared with older adults.
- Adults with a bachelor's degree or higher were less likely to have migraine headaches, neck pain, lower back pain, or pain in the face or jaw, compared to adults who did not graduate from high school.
- Adults in poor and near poor families were more likely to experience migraine headaches, neck pain, lower back pain, or pain in the face or jaw in the 3 months prior to the interview than were adults in families that were not poor.



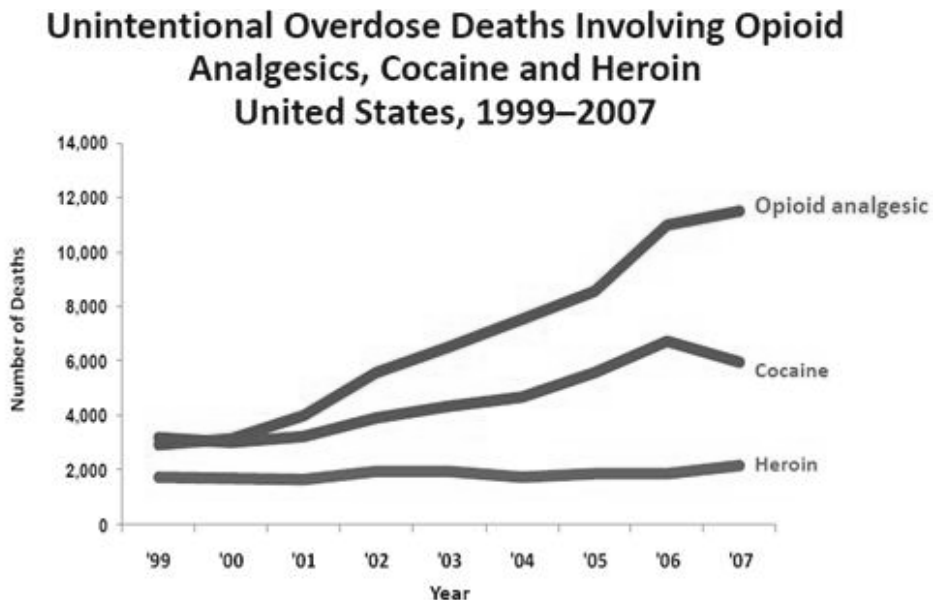
REFERENCES:

- 1) Global Industry Analysts, Inc. Report, January 10, 2011. <http://www.prweb.com/pdfdownload/8052240.pdf>.
- 2) Institute of Medicine Report from the Committee on Advancing Pain Research, Care, and Education: Relieving Pain in America, A Blueprint for Transforming Prevention, Care, Education and Research. The National Academies Press, 2011. http://books.nap.edu/openbook.php?record_id=13172&page=1.
- 3) Source: A Controlled Trial to Improve Care for Seriously Ill Hospitalized Patients. <http://jama.ama-assn.org/cgi/content/abstract/274/20/1591>
- 4) National Centers for Health Statistics, Chartbook on Trends in the Health of Americans 2006, Special Feature: Pain. <http://www.cdc.gov/nchs/data/hus/hus06.pdf>.8) National Sleep Foundation (<http://www.sleepfoundation.org>). Sleep in America poll. 2000.
- 5) 2006 Voices of Chronic Pain Survey. (American Pain Foundation)
- 6) Institute of Medicine of the National Academies Report. Relieving Pain in America: A Blueprint for Transforming Prevention, Care, Education, and Research, 2011. The National Academies Press, Washington DC. (page 77) http://books.nap.edu/openbook.php?record_id=13172&page=77
- 7) Summary Health Statistics for U.S. Adults: National: Health Interview Survey, 2009, Department of Health and Human Services Report (page 7) http://www.cdc.gov/nchs/data/series/sr_10/sr10_249.pdf

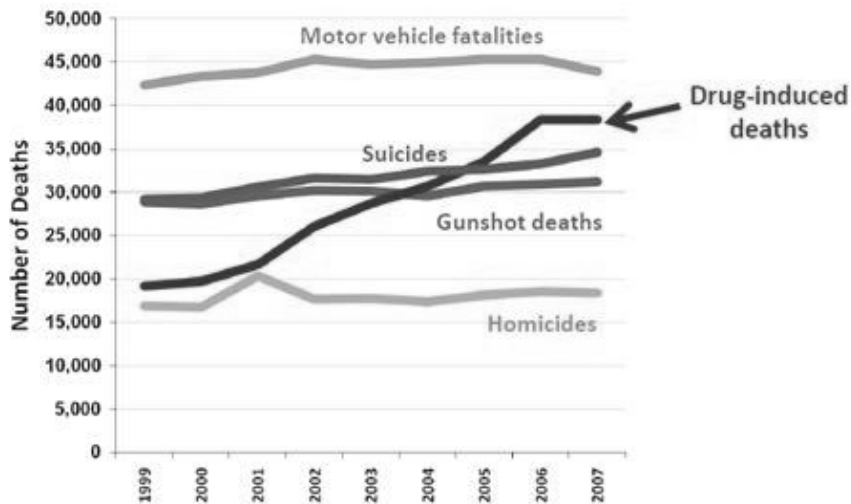


Centers for Disease Control and Prevention Reports on Prescription Drug Abuse

Unintentional Overdose Deaths Involving Opioid Analgesics, Cocaine and Heroin U.S., 1999-2007



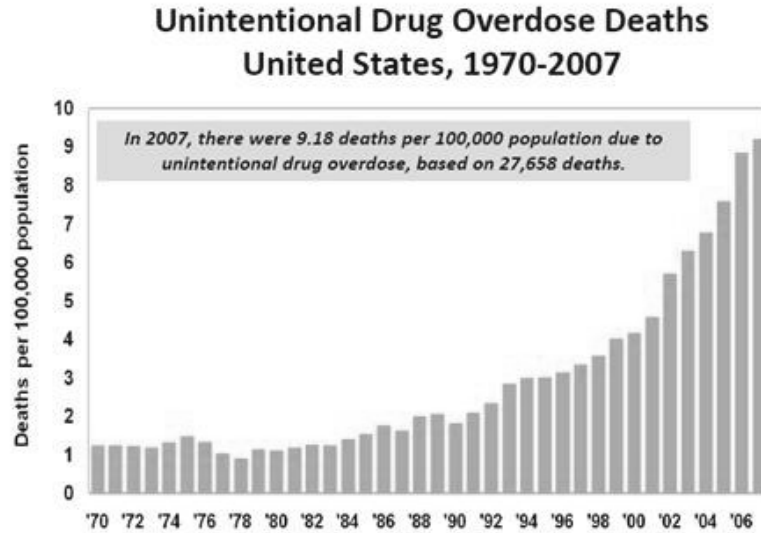
Source: Centers for Disease Control and Prevention, *Unintentional Drug Poisoning in the United States* (July 2010)



Source: National Center for Health Statistics, Centers for Disease Control and Prevention. National Vital Statistics Reports *Deaths: Final Data for the years 1999 to 2007* (2001 to 2010).

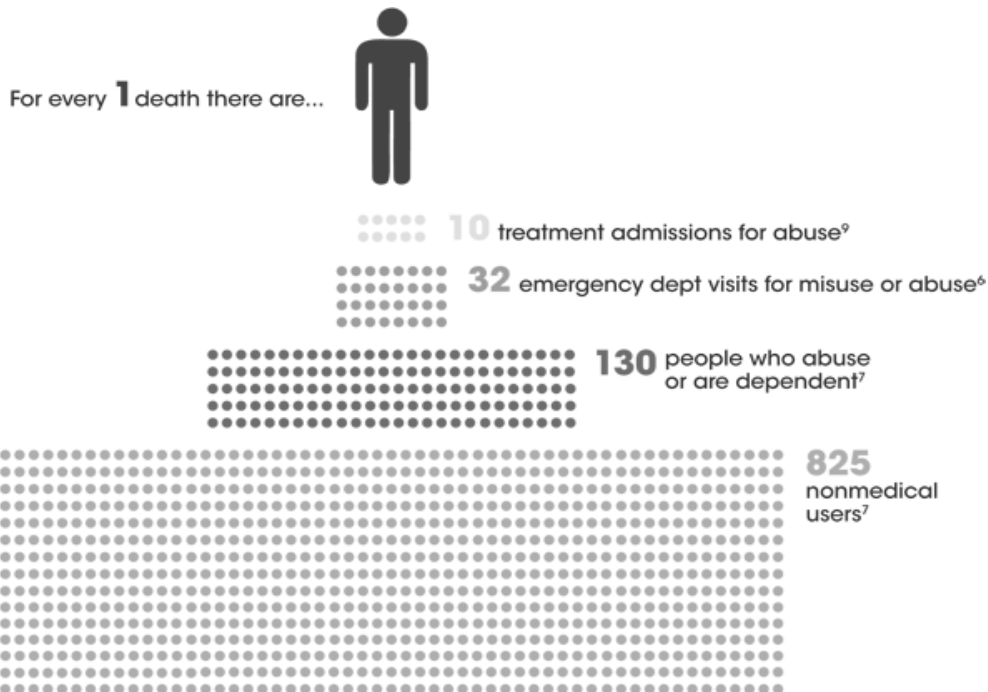
Source: National Center for Health Statistics, Centers for Disease Control and Prevention. National Vital Statistics Reports, *Deaths: Final Data for years 1999 to 2007*

Unintentional Drug Overdose Deaths in U.S., 1970-2007



Source: Centers for Disease Control and Prevention. *Unintentional Drug Poisoning in the United States* (July 2010).

Source: Centers for Disease Control and Prevention, *Unintentional Drug Poisoning in the United States* (2010)



Source: Centers for Disease Control and Prevention, *Vital Signs: Overdoses of Prescription Opioid Pain Relievers in U.S. 1999-2008*

TECHNOLOGY



AVAZZIA NEUROMODULATION TECHNOLOGY

Health and Wellness Without Drugs or Surgery

Avazzia manufactures FDA-cleared microcurrent Biofeedback Electro-Stimulation Technology (BEST) devices which feature non-invasive neuromodulation. This system is based on easily understood concepts: neuro means nerve and modulation means varying the property of a wave or signal. Thus, put together it means changing the signals of nerves.

The human body has three systems for functioning: chemical (changing food into energy, for instance), mechanical (bones and muscles) and electrical (the heart beat is but one example – which is why pacemakers are electrical devices).

Avazzia's BEST devices, all engineered and manufactured in Dallas, TX, use proprietary software and microchips in its neuromodulation applications. This non-pharmaceutical, non-invasive technology is designed to stimulate the body's natural release of nitric oxide, endorphins and neuropeptides into the blood stream.

- Nitric oxide causes vascular dilation and thereby increases blood circulation. This is critical to wound healing, reduction of edema and treatment of diabetic neuropathy.
- Endorphins are the body's natural pain management chemicals.^{1,2}
- Neuropeptides are the body's regulatory elements that promote accelerated healing.³

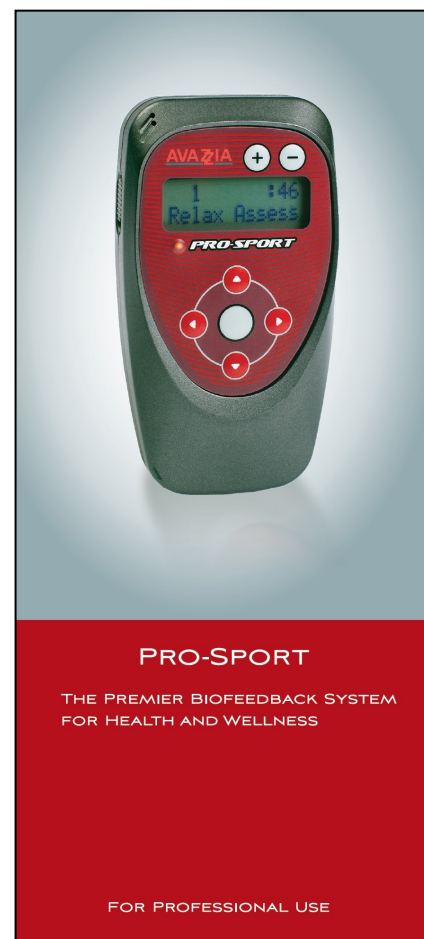
Avazzia BEST electrical signals, different than other TENS signals, allow this to happen because:

- They are short duration pulses of high voltage amplitude and very low duty cycle.
- The average currents are in the microcurrent range.
- These are damped biphasic, sinusoidal waveforms.
- The process is further enhanced by signals that change and adapt as the electrical properties of the tissue being treated change (biofeedback readings).

BEST™ devices stimulate the neuro-endocrine system through direct touch to the skin. The BEST™ device electrodes (onboard or through accessories) can detect (via biofeedback) impedance on skin by “sticking” (dramatic increase in friction) to acupuncture or electron deficient sump points when gliding the instrument over the skin.^{4,6}

These “sticky” areas may be injured or diseased tissue or may be associated with an organ or corresponding body system. By placing the BEST™ electrodes at a correct spot for treatment, equilibrium between tissues and organs is restored, and the redox (reduction-oxidation) potential of the body is recharged.

Published medical research has identified the electrical signal characteristics that impact “C” fibers,⁷ resulting in the stimulation of nitric oxide, hormones, endorphins and neuropeptides. Other publications indicate the signal characteristics and treatment locations that balance the sympathetic and parasympathetic nervous systems.⁸



AVAZZIA NEUROMODULATION TECHNOLOGY

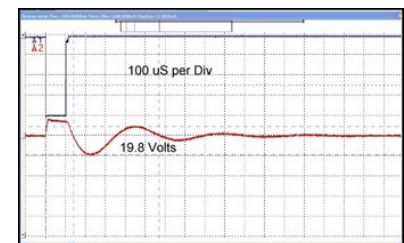
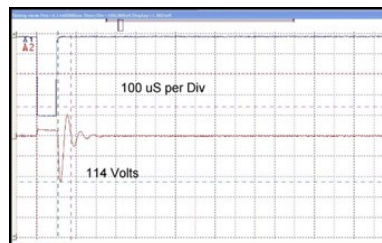
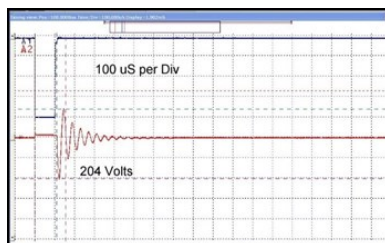
These electrical signal properties are attained by using Avazzia's proprietary algorithms that produce specific patterns of output pulses for specific applications.

Results:

- AVAZZIA technology quickly provides relief of chronic and other pains. (Appendix A)
- The pain relief is long lasting, up to 12 hours, and frequently longer.
- BEST technology, through its biofeedback feature, modifies waveforms to eliminate habituation or accommodation by the body.

BEST is a non-invasive microcurrent system that transcutaneously communicates with the internal peripheral nervous system for the purpose of therapeutic intervention.⁵ High-speed microprocessors, unknown when electro-stimulation technology was initially created, establish a cybernetic loop between the BEST device and the body. The body's response is measurable, creating information for the loop. When a signal is emitted and penetrates deep into the tissue, the impedance of the tissue (analogous to resistance in DC circuits but dynamic in nature) modulates the next waveform. The degree of modulation is based upon the changes of impedance of skin. This sets up a constantly changing interactive bio-loop processing non-repeating signals. Eventually the change in impedance diminishes in significance until a plateau occurs.

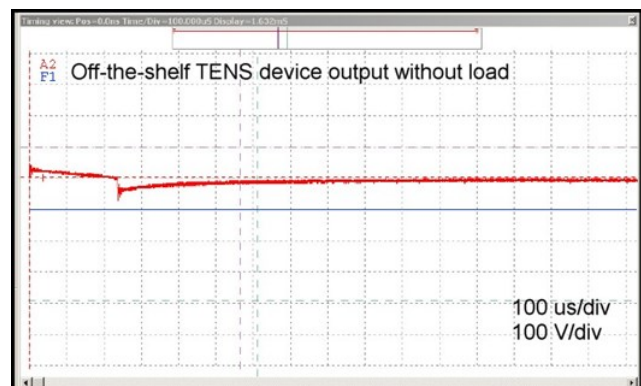
The three charts (below) show Avazzia waveforms of tissue first being treated, midway through treatment and finally, when tissue impedance diminishes and treatment stops.



Avazzia is not just another TENS

TENS was developed for the control of chronic and post-operative pain by saturating subcutaneous nerve receptors with low-intensity electrical stimulation. TENS deliver constant voltage with fluctuating current and resistance/impedance. BEST™ delivers a driving signal based upon the change in microcurrent and impedance over the active pulse interval. Unlike TENS, which relies on constant and externally generated signaling principles, BEST™ is based upon the development of a cybernetic feedback loop.

Conventional TENS work on the pain gate theory by applying a saturating electrical charge to the A and B fibers of the nervous system, thereby blocking the pain message to the brain. Once the stimulation is removed, the pain often returns a short time later. (An oscilloscope reading of a conventional TENS signal is shown, right.)



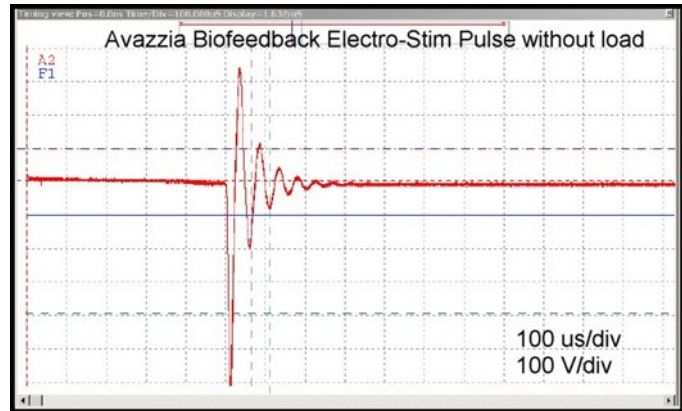
AVAZZIA NEUROMODULATION TECHNOLOGY

Avazzia BEST™ (Biofeedback Electro-Stimulation Technology) devices generate electrical impulses that are similar to neurological impulses in the C nerve fibers. These fibers are embedded in tissues and make up 85 percent of all nerves found in the body and to “fast” pain blocking A fibers. (An oscilloscope reading of an Avazzia signal is shown, right.)

History of TENS Technology

TENS technology can be divided into four eras: early TENS; second generation TENS; third generation (interferential) TENS; and interactive biofeedback TENS.

Early TENS: TENS devices developed in the 1930s had mono-phasic square-wave signals and worked at 10 to 500 mA (milliAmpere). This technology has serious drawbacks: habituation (it treated pain for several weeks, after which time the body accommodated or habituated to the stimulation and no longer blocked pain). The other serious drawback was its short period of pain relief (less than one hour). Even though this technology is obsolete, it is still used today and frequently is the only experience patients have with TENS.



Second Generation TENS: The technology for this group, developed in the 1970s, has an asymmetrical biphasic square wave output. Biphasic means the signal goes plus and minus relative to a reference voltage. Asymmetrical means the plus and minus signals are not equal in time of application and/or voltage. The improvement over early TENS is that habituation is reduced. Even so, pain relief still is brief (less than an hour). Again, this obsolete technology is still widely available and used today.



Interferential TENS: This technology was subsequently developed with asymmetrical, biphasic, and irregular shaped, microcurrent wave outputs. These waveforms result in partial opioid mode and partial pain gate mode. Opioid mode means that the electrical stimulation results in the production by the body of endogenous opioid peptides which mitigate pain. Pain gate mode means the A and B nerve fibers are stimulated to inhibit an individual's perception of pain. This technology improves the duration of pain relief while reducing the likelihood of habituation. This technology is widely used today.

Interactive Biofeedback Neuromodulation: This technology, implemented by Avazzia in its premier line of BEST products, incorporates the latest understanding in microcurrent and neuromodulation. It was learned that:

- Pulsed high voltage (>250 volts), low-duty cycle (<10%), microcurrent signals were more effective in stimulating the thin C fibers of the nervous system than square wave signals.
- An asymmetrical wave form reduces habituation.
- The use of electrical biofeedback to adjust the waveform as the electrical properties of the tissue being treated changes further reduces habituation and allows the technology to measure the progress of the treatment and provides information to the medical practitioner.
- Sine wave signals more closely approximate the natural signals in the nervous system.

MEDICAL PROCEDURES

CHRONIC
ACUTE
NEUROPATHY
ABDOMINAL
BACK
SHOULDERS
NECK
CARPAL TUNNEL
REPETITIVE STRAIN INJURIES
SCAR TISSUE BUILD UP

AVAZZIA NEUROMODULATION TECHNOLOGY

The following table summarizes the characteristics of the four TENS technologies:

Characteristics	Early TENS	2 nd Generation TENS	Interferential TENS	Biofeedback Neuromodulation
				Avazzia's Products
Wave Form				
- Wave Form	Square Wave	Square Wave	Square Wave With Spikes	Damped Sinusoidal
- Biphasic or Monophasic	Monophasic	Biphasic	Biphasic	Biphasic
- Treatment Current	Milliampere	Milliampere	Microampere	Microampere
- Voltage	Low voltage	Low voltage	Pulsed High Voltage	Pulsed High Voltage
- Interactive Biofeedback	No	No	No	Interactive Biofeedback
Habituation	Serious problem	Reduced	Greatly Reduced	Eliminated
Principle Treatment Effects	Pain Gate Mode	Pain Gate Mode	Pain Gate + Opioid Mode	Pain Gate + Opioid Mode
Length of Pain Relief (Hours)	< 1 Hour	< 1 Hour	1 to 2 Hours	12 or More Hours
Diagnostic Indication	No	No	No	Yes

1. "Human Bodies Make Their Own Morphine" Christine Dell'Amore, *National Geographic News*, Published April 26, 2010.
2. Anette Kjellgren, 2003, The experience of floatation REST (restricted environmental stimulation technique), subjective stress and pain, Goteborg University Sweden, Kjellgren A, Sundquist U *et al.*. "Effects of floatation-REST on muscle tension pain". *Pain Research and Management* 6 (4): 181–9
3. Wolcott LE, Wheeler PC, Hardwicke HM and Rowley BA (1969). "Accelerated healing of skin ulcer by electrotherapy: preliminary clinical results". *Southern Medical Journal* 62 (7): 795–801.PMID 5306004.
4. Johnson C (1999-06-04). "Acupuncture works on endorphins". *News in Science, ABC Science Online*. Australian Broadcasting Corporation. Retrieved 2008-10-15.
5. Boecker H, Sprenger T, Spilker ME, Henriksen G, Koppenhoefer M, Wagner KJ, Valet M, Berthele A, Tolle TR (February 2008). "The Runner's High: Opioidergic Mechanisms in the Human Brain". *Cerebral Cortex* (New York, N.Y. : 1991) 18 (11): 2523–31.
6. Reichmanis M, Marino AA and Becker RO (1975). "Electrical correlates of acupuncture points". *IEEE Transactions on Biomedical Engineering* 22 (Nov;22(6)): 533–5.
7. Purves, Dale; et.al (2004). *Neuroscience*. Massachusetts: Sinauer Associates, Inc.. ISBN 0-87893-725-0.
8. NIH Consensus Development Program (3–5 November 1997). "Acupuncture --Consensus Development Conference Statement". National Institutes of Health. Archived from the original on 14 July 2007. Retrieved 2007-07-17.



COMBAT RECOVERY

PHANTOM LIMB
ELITE ATHLETIC INJURIES
NON DRUG SOLUTIONS
NON SURGICAL ALTERNATIVES

AVAZZIA AND TENS PERFORMANCE COMPARISON

<p style="text-align: center;">Avazzia BEST™ (Bio-Electrical Stimulation Technology)</p>	<p style="text-align: center;">Traditional TENS (Transcutaneous Electrical Neural Stimulation)</p>
<p>Avazzia BEST devices are FDA-cleared for the symptomatic relief and management of chronic, intractable pain and adjunctive treatment in the management of post-surgical and post-traumatic pain. BEST devices are available by prescription only.</p>	<p>Check clearances and federal approvals.</p>
<p>Effectiveness lasts for several hours after treatment and has been shown in some cases to permanently resolve pain.</p>	<p>Effectiveness often ends when treatment stops.</p>
<p>Engineered and manufactured in the U.S., at a federally inspected facility in North Texas.</p>	<p>Often difficult to determine where product is manufactured; engineering origins often unknown.</p>
<p>Unique biofeedback feature of BEST units is designed to prevent habituation and accommodation for more effective pain management.</p>	<p>User's body often "gets used" to TENS stimuli. The result is the TENS unit works well for awhile and then effectiveness is either severely limited or eliminated.</p>
<p>Product has patented software and design. Superior technical support and service available at company headquarters in Dallas.</p>	<p>Purchaser should check product support and service. Some products offer no technical support and cannot be returned for any reason.</p>
<p>Accessories may be purchased, as needed, to improve treatment.</p>	<p>Many TENS units sold as kits, with no option to add needed items or delete unnecessary items.</p>

Biofeedback is the body's response to the stimulus and the technology's ability to detect, measure, analyze and respond to the body. As the BEST product is applied, a high voltage microcurrent signal is passed through the skin. With each signal, the electrical properties of tissue changes. The BEST device detects the change and responds with modification of the next signal.

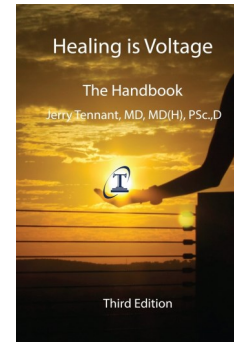
AVAZZIA AND TENS TECHNICAL COMPARISON

<p align="center">Avazzia BEST™ (Bio-Electrical Stimulation Technology)</p>	<p align="center">Traditional TENS (Transcutaneous Electrical Neural Stimulation)</p>
<p>Patented microchip technology designed by the Texas Instrument engineer who created the “logic” chips used in Apollo moon missions and F-14 and F-15 fighter jets.</p>	<p>Technology is basically the same as when units came into common use in 1970s. Technology can be easily replicated.</p>
<p>Output signals vary with changes in tissue impedance to reduce accommodation.</p>	<p>Output signals typically in the same, continuous pattern, often resulting in accommodation.</p>
<p>Avazzia BEST devices form a somatic feedback loop between the device and tissue being treated for more effective therapy.</p>	<p>No biofeedback.</p>
<p>Avazzia devices have high intensity, burst pulses and very low microcurrent for increased stimulation of neuropeptides.</p>	<p>Low intensity, long duration pulses, higher current.</p>
<p>Voltage range: 20-650 volts.</p>	<p>Voltage range: 0-40 volts.</p>
<p>Amperage range: Microamps (10^{-6} amps)</p>	<p>Amperage range: Milliamps (10^{-3} amps)</p>
<p>Signals, frequency range: 1Hz to 1500Hz</p>	<p>Signals, frequency range: 1Hz to 100Hz</p>
<p>Damped asymmetrical biphasic sinusoidal waveform.</p>	<p>Square waveform, monophasic or biphasic; symmetrical or asymmetrical.</p>
<p>Uses two AA batteries.</p>	<p>Typically uses 9V battery.</p>
<p>In addition to owner’s manual, online videos (accessible with membership fee) explain advanced techniques for pain management. Professional users may attend in-person training (registration required).</p>	<p>Owner’s manual included with purchase.</p>
<p>Service and technical support staffs are located in Dallas, Texas.</p>	<p>Check vendor to determine service and technical support.</p>

Healing is Voltage: The Handbook, 3rd Edition

Jerry L. Tennant, MD

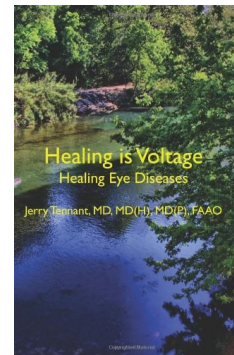
Every cell in the body is designed to run at -20 to -25 millivolts. To heal, we must make new cells. To make a new cell requires -50 millivolts. Chronic disease occurs when voltage drops below -20 and/or you cannot achieve -50 millivolts to make new cells. Thus chronic disease is always defined by having low voltage. This book tells you how to measure your voltage in each organ, how to correct it, and how to determine why your voltage dropped enough to allow you to get sick.



Healing is Voltage: Healing Eye Diseases

Jerry L. Tennant, MD

Healing Eye Diseases is a part of the Healing is Voltage series. Many eye diseases like macular degeneration, cataracts, glaucoma, and uveitis are believed to be incurable. However, using the Healing is Voltage paradigm, they can be reversed in most cases. This book discusses how it can be done.



Cellular Makeover: New anti-aging technology designed to rejuvenate skin at a cellular level

Lorraine A Hache, Psy

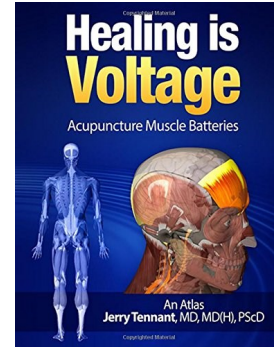
Your source of beauty is at the cellular level. “Cellular Makeover” deals with much more than just appearance, as appearance as well as the elements and gravity are what pay their toll over time. But we will be dealing with the actions and emotions that in turn have caused a certain amount of havoc within the body, deep within the systems and their harmonious function one with the other. Rejuvenation is at the cellular level and mirrors itself into one’s face. With the latest Scientific knowledge from the West and the ancient wisdom from the East, this book guides you through the latest knowledge on how to evaluate, how to prevent and how to nurture your cells to give you that absolute Cellular Makeover” which is your true source of beauty.



Healing is Voltage: Acupuncture Muscle Batteries

Jerry L. Tennant, MD

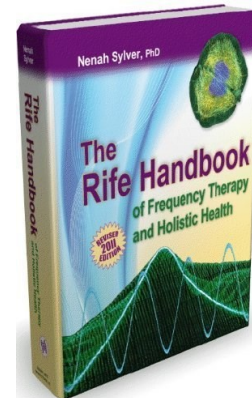
Cells in the body require voltage to work and to make new cells to replace worn out cells. Our muscles are rechargeable batteries that provide this voltage. Each organ has its own battery pack. Such battery packs are specific stacks of muscles. These muscle stacks are known as acupuncture meridians.



The Rife Handbook of Frequency Therapy and Holistic Health

Nenah Sylver, PhD

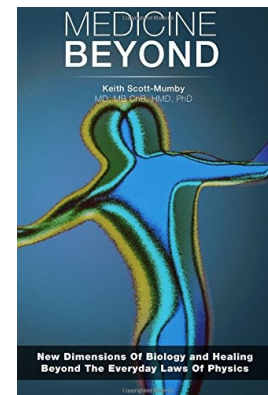
This 2011 version closely details how Royal Rife's resonance therapy worked, additional treatments for cancer, Rife's original frequencies (verified by his lab notes), and two new appendices--selected published clinical trials on frequency therapies over the past 40 years, and contemporary Rife research in the United States (with newly released photos). The science is explained to the satisfaction of practitioners and researchers, yet is understandable to the layperson.



Medicine Beyond: Startling New Dimensions Of Health and Healing For The Future

Keith Scott-Mumby, MD

An exploration of the new wave of science and how it relates to the models for health and medicine in the 21st century. These changes are shaking the foundations of scientific convention and the old order is falling apart faster than you think... things are accepted and proven today that were scarcely believable a quarter of a century ago. Mainstream science has become junk science.



Current Medicine: Compendium and Pictorial Guide to Micro Current Protocols

John A. Hache, DNM

Micro Current Technology has several significant features in its favor: there is already substantial evidence that it can promote healing in a variety of tissue types and disorders, especially where other approaches have failed; it may help redress an underlying physiological dysfunction as well as reducing its symptoms; its mechanism of action appears to be as a trigger or facilitator of the whole healing process, unlike some new approaches such as exogenous growth factors, which have specific targets in the healing cascade.

Dr John Hache and Dr Lorraine Hache

CURRENT MEDICINE

Pain Resolution
Using the Latest in Micro Current
Technology

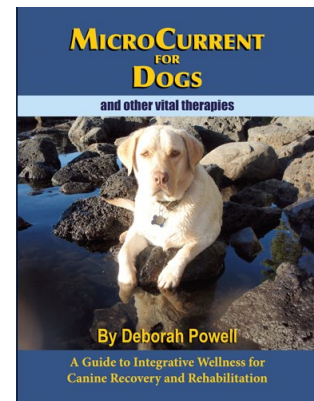
Compendium and Pictorial Guide to Micro
Current Protocols

Foreword by Professor Keith Scott-Moncrieff MB ChB MD PhD
Copyrighted Material

MicroCurrent for Dogs

Deborah Powell

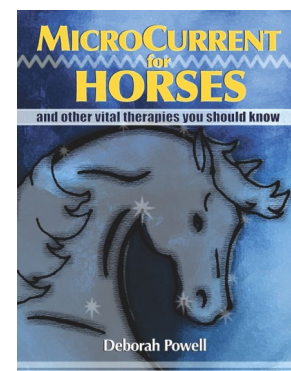
MicroCurrent for Dogs is a step-by-step introduction and guide to using unique and effective therapies that can reduce a dog's recovery time compared to standard veterinary practices. This book explores alternatives to standard pet care practices, covering easy-to-use tools for microcurrent and other therapies. The goal of MicroCurrent for Dogs is to provide both owners and practitioners with a resource for incorporating therapy tools into the health care of dogs.



MicroCurrent for Horses (and other vital therapies you should know)

Deborah Powell

MicroCurrent for Horses (and other vital therapies you should know) is reference book for professionals and horse owners interested in microcurrent therapy. It explores the past and present methods of this amazing therapy as well as many other complimentary therapies. With the addition of the many other therapies you can dramatically improve your results. This book is a real how-to book that reveals what many have paid thousands to learn in courses. The users of this knowledge will be empowered to tackle horse lameness issues with confidence.



CLINICAL REPORTS

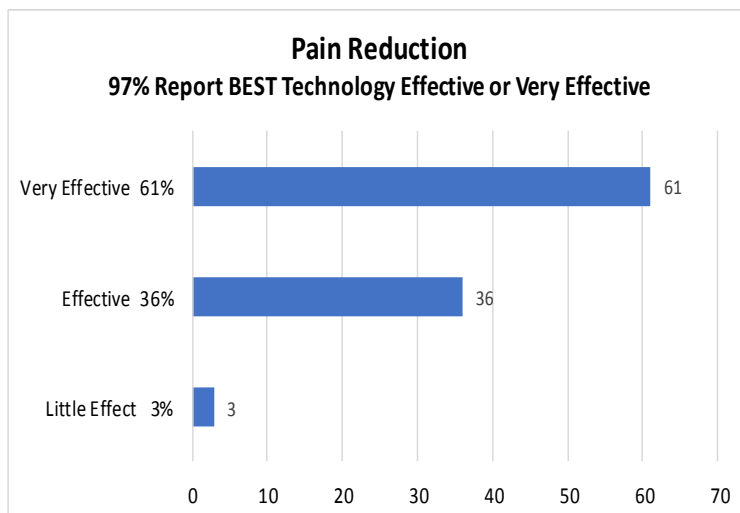
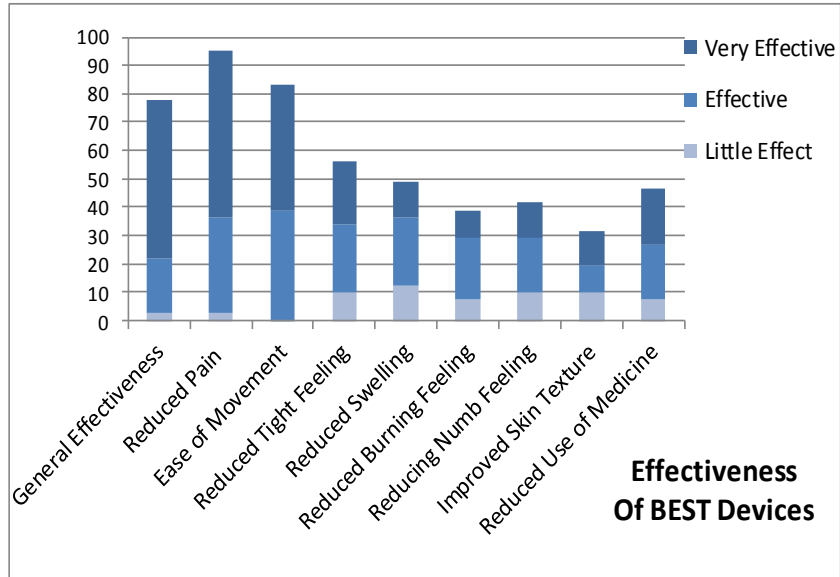


Efficacy of Avazzia BEST™ Microcurrent Stimulation Device For Pain and Symptoms Associate with Pain

Abstract

Electro-stimulation devices are prescribed for the treatment of acute and chronic pain. The purpose of this survey was to examine patient perceptions of the effectiveness and safety of treatment with Avazzia Biofeedback Electro-Stimulation Technology (BEST™) microcurrent devices for relief and alleviation of pain. Patients who received an Avazzia BEST device through their doctor to use at home for acute or chronic pain were invited to participate in a survey. A total of 41 people took part in this survey.

Participants reported effectiveness in pain reduction (97 percent), improved range of movement (100 percent) and improved ability to return to daily activities (94 percent) after using BEST devices for treatment. In addition, 56 percent reported using less or significantly less medicine after using BEST therapies.



Background Information

Avazzia BEST™ devices were developed as simple, easy-to-use, hand-held devices for non-pharmacological pain relief. BEST™ devices produce microcurrent electrical impulses, which are transmitted by electrodes in the device through the skin. These electrical impulses interface with the body's internal peripheral nervous system for the purpose of therapeutic intervention.

BEST™ devices are controlled by a high performance microcomputer chip, into which Avazzia embeds proprietary software. Avazzia BEST-RSI™ and BEST-Pro 1™ devices and accessories are FDA cleared for symptomatic relief and management of pain, and adjunctive treatment in the management of post-surgical and post-traumatic pain.

PAIN RELIEF SURVEY

The Questionnaire

Participants voluntarily chose to respond to a questionnaire. Responses were received from 41 participants who had an Avazzia BEST-Pro 1 or BEST-RSI device. The questionnaire had 24 questions to evaluate the effectiveness of Avazzia technology for treating pain and symptoms of pain. Not every question applied to each patient, so some questions were not answered.

Avazzia Safety and Efficacy

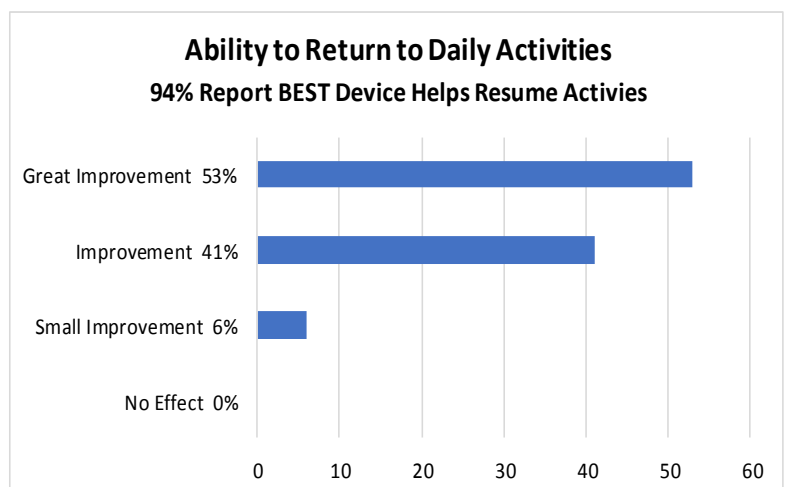
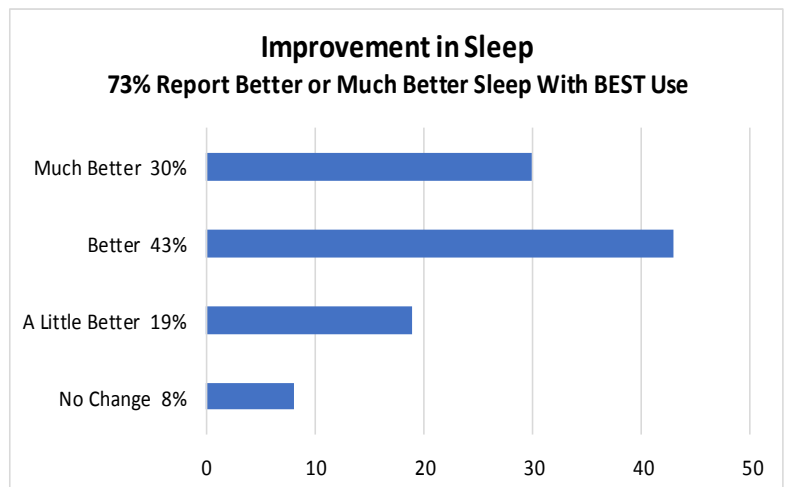
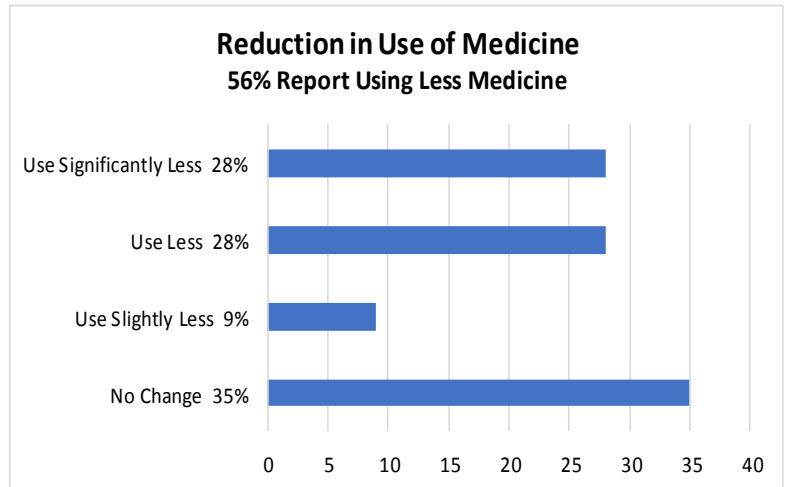
Based on the survey of patients from 2009 to 2011, there were no reported side effects of Avazzia BEST devices. No negative claims have been reported through Avazzia regarding side effects of the Avazzia BEST devices.

Results

Data was analyzed using descriptive statistics. In addition to analysis related to pain reduction, questions related to decrease in medication were included.

Conclusion

Respondents perceived the Avazzia BEST devices as effective and safe treatment for alleviation of pain. Avazzia BEST devices can be used to provide patients with a safe, non-invasive, non-pharmacological treatment for pain.



Avazzia v Conventional TENS for Short-Term Relief of Chronic Musculoskeletal Pain: A Prospective Randomized Controlled Trial

By: Dr. KiungSze Ting and Professor Dr. Marzida Mansur – University of Malaysia

Methodology:

- Randomised controlled trial, approved by ethics committee University Malaya Medical Center.
- TENS-naïve patients aged over 18, with chronic musculoskeletal pain defined as pain persisting >3months and has been on some form of analgesics were eligible.

Diagnoses or the causes of musculoskeletal pain were made by the orthopedics team.

Study Protocol:

Baseline Data – Demographics, VAS score (0-100mm), BPI questionnaires

Treatment –

Conventional TENS (Two self adhesive pads (2"x2") applied to the painful areas. Models used were ELPHA II 3000, with programme set to P1; currents delivered was a continuous stimulation with frequencies (1-150 Hz), potentially achieving painless paraesthesia in the part of the body concerned. Duration of treatment was 20 mins, with currents adjusted to patients comfort.

Avazzia BEST-RSI -- Affected areas was first painted with Y electrode, in "deep stimulate" mode frequency range 30-300 Hz, adjusted to patients comfort until gliding friction decreases, humming sound equalizes or skin redness appeared. Maximum time 5 minutes. Followed with application of 2"x2" self-adhesive pad on the same area with mode switched to "RSI" emitting a frequency of 30 Hz, adjusting to patient comfort for 20 mins.

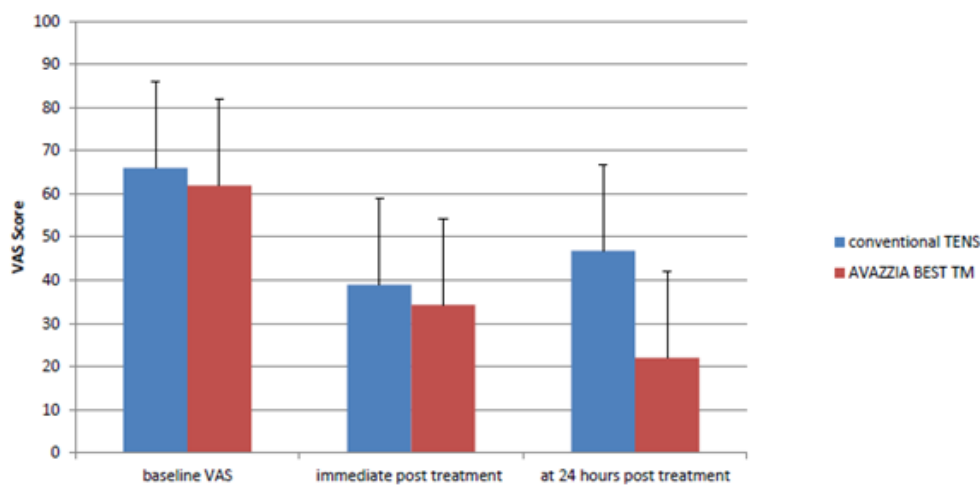
Follow-up – Immediate VAS, side effects, 24 hours post treatment (telephone interview) – VAS BPI treatment satisfaction.

Conclusion:

Post-treatment 24 hours, patients on AVAZZIA BEST-RSI demonstrated a significant improvement in VAS score with a significant reduction in pain severity and pain interference score. Although the effect of a single dose treatment with this device is promising, the long-term efficacy is yet to be elucidated.

AVAZZIA COMPARED TO TENS FOR PAIN RELIEF

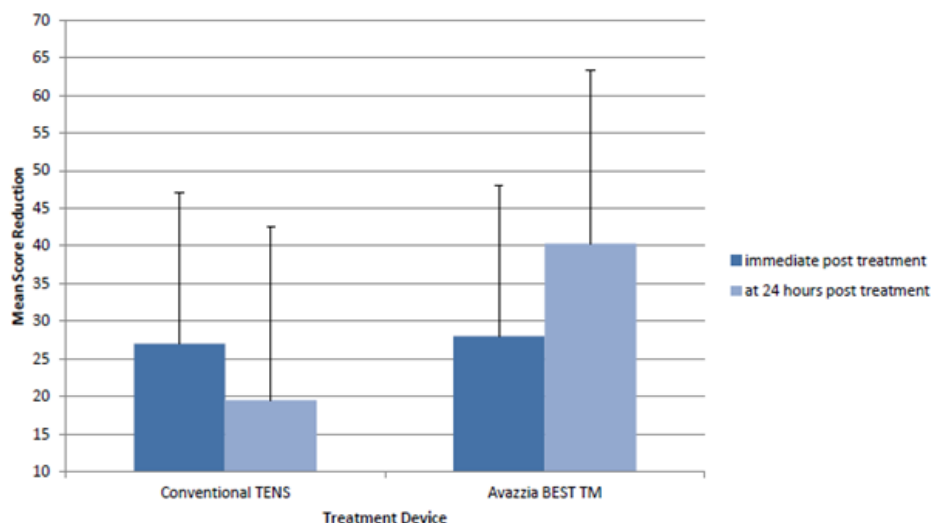
Pain Score at Immediate and 24hours Post Treatment



Immediate post treatment: conventional TENS, mean 23.86 ± 39 , AVAZZIA BEST™ averaged 26.6 ± 34.3

24 hours post treatment: conventional TENS, mean 46 ± 20.86 , AVAZZIA BEST™ averaged 22 ± 19.37 $p < 0.001$

Immediate and at 24hours Pain Score Reduction From Baseline



• No significant immediate post treatment pain score reduction between 2 arm
Conventional TENS 27 ± 20 , AVAZZIA BEST™ 28 ± 22.3

• Significant pain score reduction at 24 hours post treatment $p < 0.001$
Conventional TENS 19.5 ± 21.39 , AVAZZIA BEST™ 40.3 ± 24.88

SHOULDER PAIN RELIEF

Effectiveness of Pro-Sport™ Microcurrent Treatment in a Single Outpatient Visit

Participants: 7 patients, ages 40 to 78; 5 females / 2 males with chronic pain symptoms from 3 to 84 months

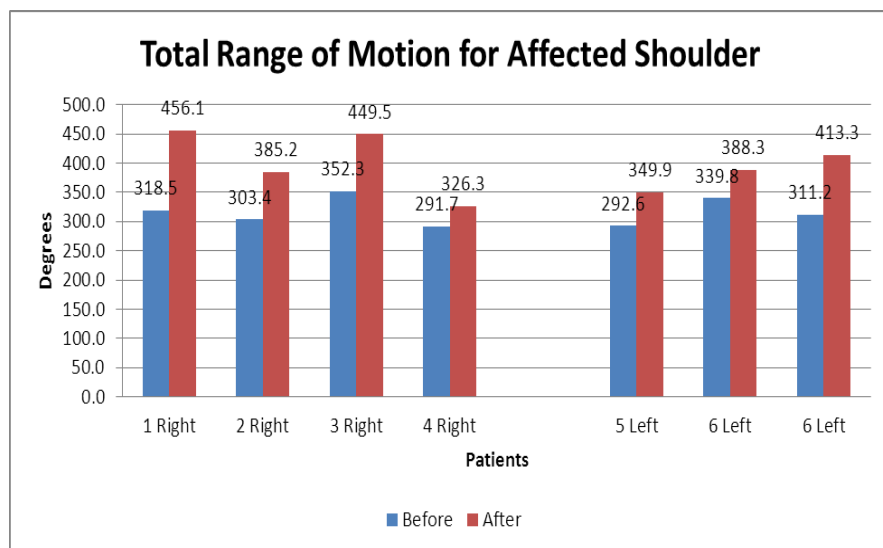
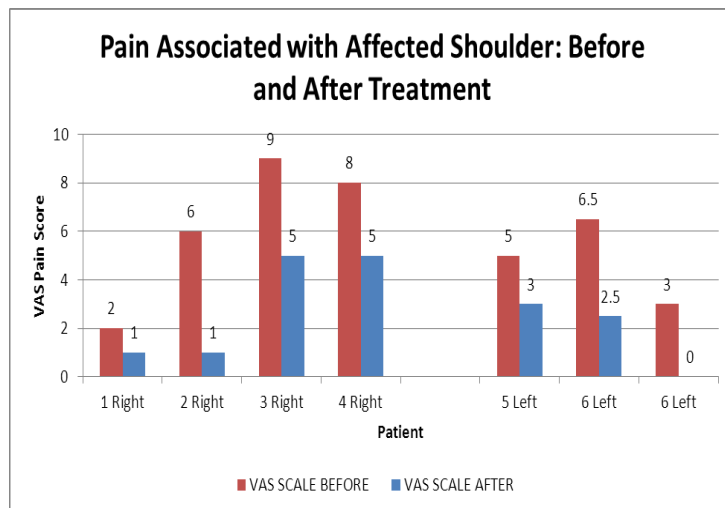
Principal Investigators: Dr. Thomas Lenahan DC, Cornerstone Wellness and Devyn Pontzer, Avazzia, Inc.

Drug Free • Non-Invasive • Pain Relief

Pro-Sport microcurrent therapy case study data shows that every participant reported decreased pain and increased range of motion in a single outpatient visit without drugs or invasive procedures.

Pain reduction based on self-reported pain intensity before and after treatment on a one-to-ten point VAS scale. Average VAS pain intensity of symptoms for all participants before treatment was 5.6, and dropped to 2.5 at study end decreasing 3.1 points 59.5% decrease in reported pain.

Range of motion based on digital goniometer measured degrees for flexion, extension, abduction, and adduction. Average range of motion increase for the affected shoulder was: Flexion 32.6°; Extension 14.9°; Adduction 5.7°; Abduction 24.3°.



Protocol		
Location to Treat	Mode settings	Treatment time
Visible scars on the torso, extremities, or back	Blue Relax	2-5 minutes per scar
Affected and non-affected shoulder and area around joint capsules	Blue Relax	3-5 minutes
Sternocleidomastoid muscle and vagus nerve	Acute	5 cycles

Participants exhibited physical symptoms such as pain, muscle tension, limited range of motion and pain in shoulder before treatment in open label study. Protocol was compliant with FD

A guidelines for Avazzia B.E.S.T. units.

EVERY patient reported reduced pain and increased range of motion.

* See report for details



X-Rays Show Structural Changes After Biomodulator Microcurrent Treatment

Introduction

Jarrah Ali Al-Tubaikh, MD – specializes in radiological diagnostics of rare disorders. He is a member of the German Board of Radiology and currently works in the Radiology Department, Sabah Hospital, Kuwait City, Kuwait.

Kuwait offers a sophisticated healthcare system to its residents, with highly trained specialists. Despite best medical practices and state-of-the-art interventions by physicians, many of these patients continue to suffer from excruciating pain. Since Dr. Al-Tubaikh was introduced to the Tennant Biomodulator® medical device and protocols of Jerry Tennant, MD, MD(H), PScD of Colleyville, Texas, Dr. Al-Tubaikh has significantly improved or eliminated ongoing pain in these patients.

Background

As a radiologist, Dr. Al-Tubaikh assesses many patients who are referred to him to determine if the source of their pain can be identified by X-ray. A certain subset of those patients have been described to Dr. Al-Tubaikh as “hopeless” cases – physicians have run out of options available through the healthcare system.

Since learning of the Biomodulator microcurrent device for drug free, non-invasive pain relief, Dr. Al-Tubaikh has used it with patients and co-workers at his hospital as well as with friends, all of whom suffer with severe unresolved pain symptoms. In two cases, he used the Biomodulator with patients specifically referred to him because of severe back pain, as word of the “miracle” treatment spread. In each case, Dr. Tubaikh said he takes images before and after treatment to document changes that have taken place after Biomodulator treatment. “It is hard to argue against radiological images because the evidence is clear; it is not placebo anymore.”

Bowling Ball Syndrome – Sphenoid Malalignment

“Bowling Ball Syndrome” was first described by Robert Boyd, DO, who said that the head weighs about the same as a bowling ball. Because of its weight, the body will always put the upper cervical vertebra under the center of gravity of the head to keep the head upright. When the sphenoid bone is malaligned, the other cranial bones follow. This moves the center of gravity of the skull and causes the following compensating changes. It is theorized that these changes may cause pain, reduced functionality, and stress on a variety of physical systems:

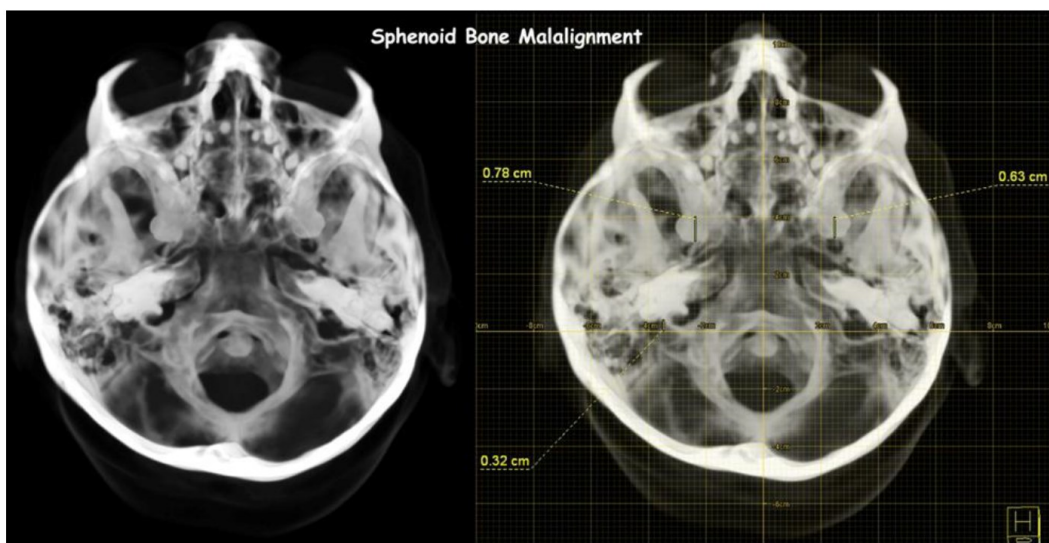
- C1-C2 moved sideways causing persistent headaches and neck aches.
- Curvature of spine causing extrusion of disks.
- Migraine headaches.

Data Provided by Jarrah Ali Al-Tubaikh MD, Sabah Hospital, Kuwait City, Kuwait – November 2014

X-Rays Show Structural Changes After Biomodulator Microcurrent Treatment

- Pelvis is rotated with pain in lower back.
- Rotated pelvis can cause joint issues on one hip-knee-ankle with disproportionate weight distribution.
- One shoulder is higher than the other.
- One scapula is higher than the other. This can lead to interscapular pain during driving, for instance.
- One ear canal is lower than the other.
- Obstruction of ocular canal can increase intraocular pressure and cause vision issues.
- Kinking of Eustachian tubes can lead to increased ear infections.
- Sinus and nasal obstructions, including snoring.
- Jaws may move, causing TMJ.
- Eyelid may droop (ptosis).
- “Locking” of the cranosacral pump causes the entire nervous system to have stagnant cerebrospinal fluid. Results in general decrease in healthy functions.

The computed tomographic (CT) image that follows shows the sphenoid bone malalignment that is indicative of the Bowling Ball Syndrome. The image clearly shows uneven petrous (Ear) bones position compared to the sphenoid bone anteriorly; also, notice the uneven shape of the occipital bone (bone of the back of the head). In radiology, a general rule in plain radiography interpretation is to consider the body to have symmetric, mirror-image structures, and any asymmetry can result from misshaped bones or spine. By treating Bowling Ball Syndrome with the Biomodulator ANS Reset protocol, using the Biomodulator Infinity mode to stimulate the sternocleido mastoid, the sphenoid bone is re-centered over the spinal column, restoring symmetry and mitigating pathologies caused, according to Boyd and others, by the malalignment.



Data Provided by Jarrah Ali Al-Tubaikh MD, Sabah Hospital, Kuwait City, Kuwait – November 2014

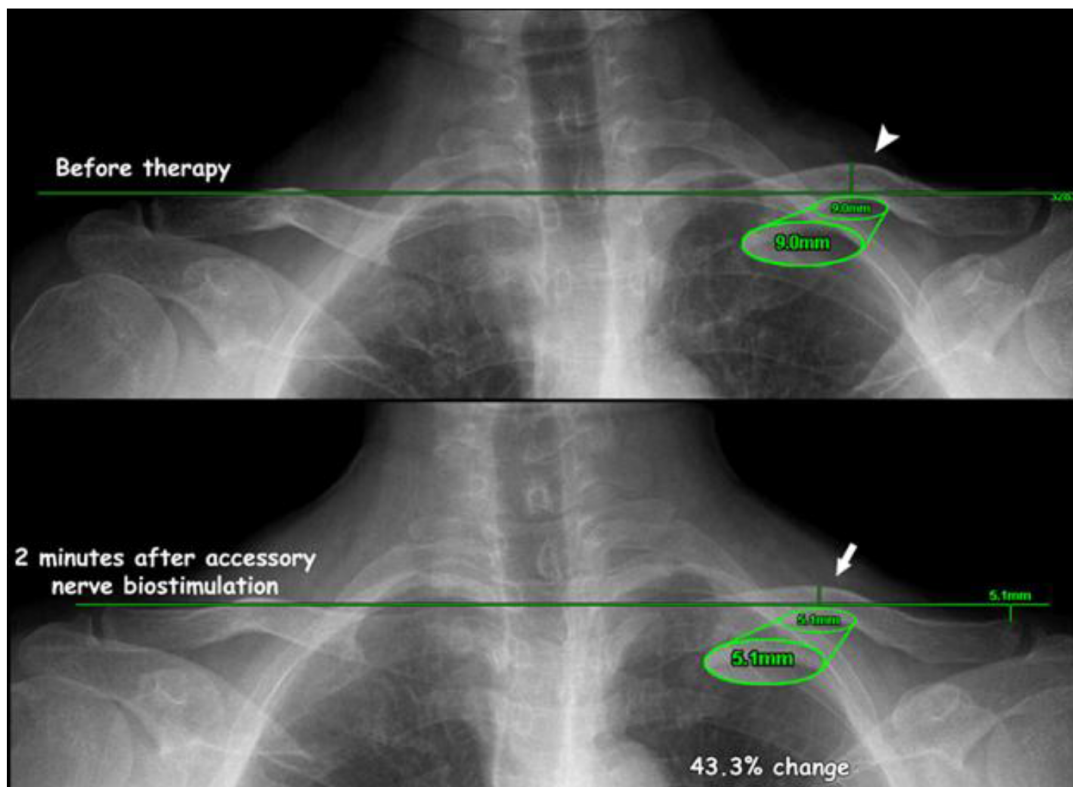
X-Rays Show Structural Changes After Biomodulator Microcurrent Treatment

This correction of the Bowling Ball Syndrome restores functionality of the autonomic nervous system (ANS), which is comprised of the sympathetic nervous system (most commonly referred to as the fight-or-flight response) and the parasympathetic nervous system (which aids in the control of most of the body's organs). Stress — as in the flight-or-flight response — is thought to counteract the parasympathetic system, which generally works to promote maintenance of the body at rest, digestion and immune system. The comprehensive functions of both the parasympathetic and sympathetic nervous systems are not so straightforward, but this is a useful rule of thumb.⁶

It can be extrapolated that based on Boyd's research, correcting for the "Bowling Ball Syndrome" may improve a range of conditions. Dr. Al-Tubaikh's diagnostic images taken before ANS Reset treatment appear to show symptoms of Bowling Ball Syndrome. Following 2 minutes of ANS reset, images show realignment of the spine as reflected in four cases that follow.

Case 1: 43% change in malposition

In one case (X-ray images below) the patient suffered from neck and left shoulder pain. "Her initial X-ray shows a left clavicular mild malposition," Dr. Al-Tubaikh's said. "I gave her two minutes cervical bio-stimulation with the Biomodulator set at Infinity mode at a comfortable power level." He repeated the X-ray, with results as shown, with a 43 percent change in malposition.



Data Provided by Jarrah Ali Al-Tubaikh MD, Sabah Hospital, Kuwait City, Kuwait – November 2014

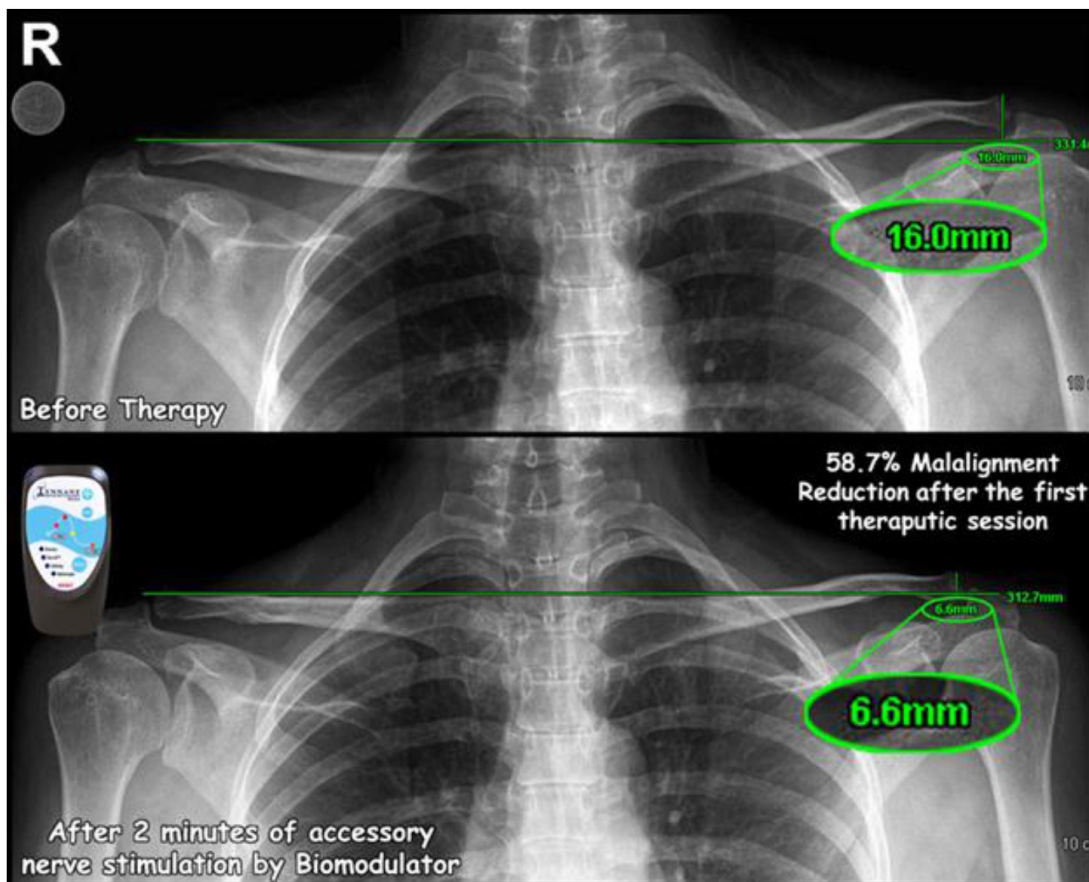
X-RAYS AFTER MICROCURRENT TREATMENT

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X-Rays Show Structural Changes After Biomodulator Microcurrent Treatment

Case 2: 59% change in malposition

In another case, a patient with severe shoulder and back pain arrived. "X-rays showed that her shoulder is tilted to the left and her pelvis is tilted to the right," he said. "I used the Biomodulator on her neck for correcting the "Bowling Ball Syndrome," and I did X-rays after the first session. The radiographic findings are amazing."



Data Provided by Jarrah Ali Al-Tubaikh MD, Sabah Hospital, Kuwait City, Kuwait – November 2014

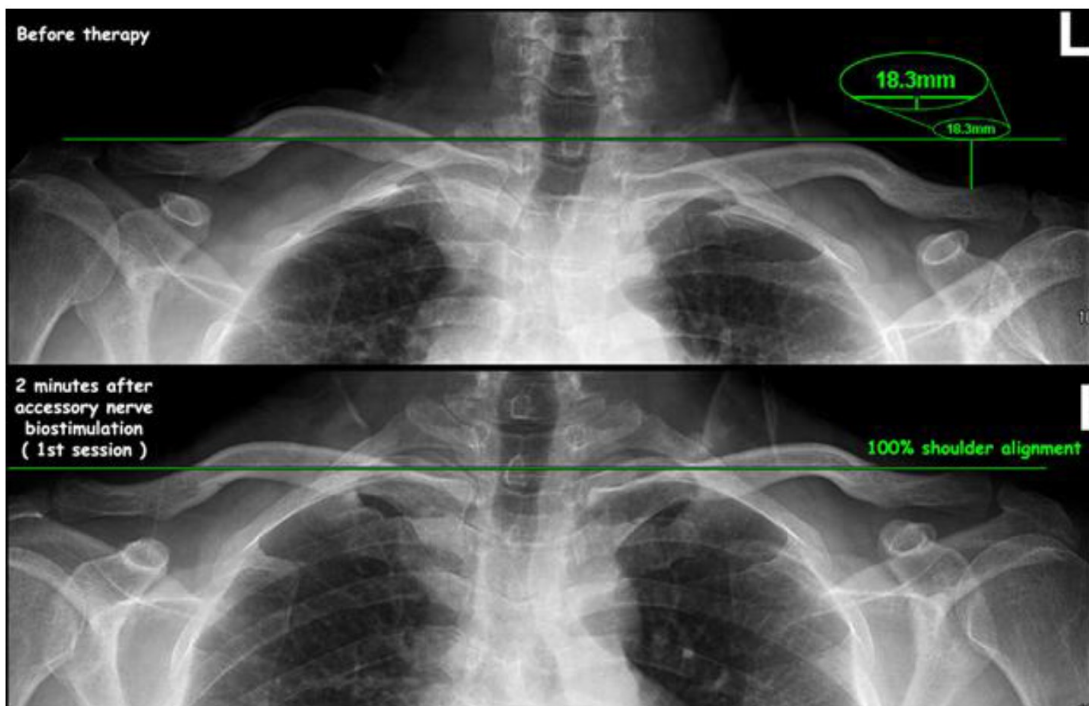
X-RAYS AFTER MICROCURRENT TREATMENT

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X-Rays Show Structural Changes After Biomodulator Microcurrent Treatment

Case 3: 100% shoulder alignment

The before and after X-rays (below) show another of Dr. Al-Tubaikh's patients treated with the Tennant Biomodulator®. Additionally, comparing the "before" X-rays, to the images taken following the Biomodulator treatment, not only are the shoulders leveled but the spinal column is much straighter as well.



Various protocols have been used to treat this syndrome, although many are painful, invasive, and expensive. From his research, Dr. Tennant has applied the Biomodulator technology and developed a simple non-invasive, cranial-sacral adjustment technique that is cost effective and efficient. He recommends leading with this ANS (Autonomic Nerve System) Reset technique to treat the Bowling Ball Syndrome.

Dr. Al-Tubaikh continues to use the Biomodulator almost daily in the hospital and has the attention of many patients and doctors. Two additional case studies follow.

Data Provided by Jarrah Ali Al-Tubaikh MD, Sabah Hospital, Kuwait City, Kuwait – November 2014

X-RAYS AFTER MICROCURRENT TREATMENT

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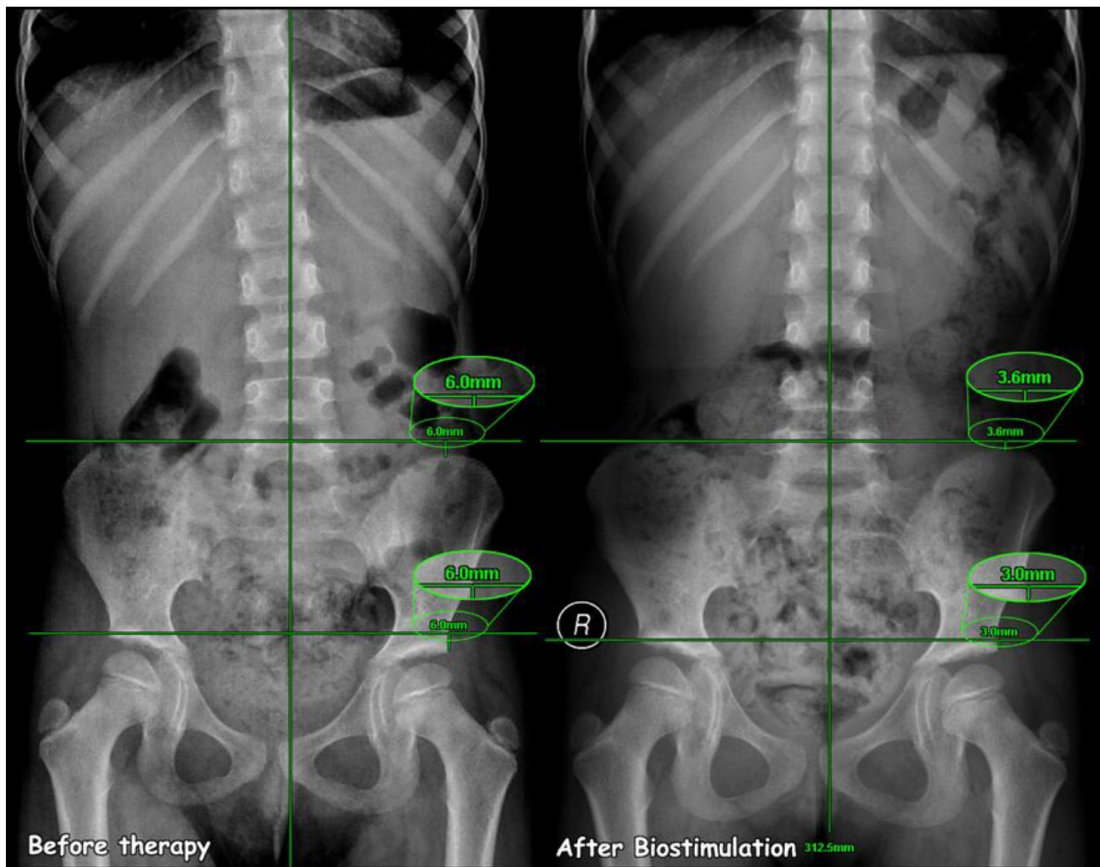
X-Rays Show Structural Changes After Biomodulator Microcurrent Treatment

Case 4: Spinal alignment correction and improved gait with ANS Reset (Bowling Ball) technique

A seven-year old female with an abnormal gait was referred by the genetic center for rare disorders consultation to Dr. Al-Tubaikh. She had been examined by the pediatric, genetic, and neurology departments for her abnormal gait. All examinations were normal including brain MRI and muscle electromyography (EMG). They sent her to Dr. Al-Tubaikh to exclude rare causes of gait abnormalities.

Her spine was imaged on standing position and revealed that her whole spine was shifted to the right side and her hip was shifted to the left as shown in the following before and after radiographic images.

Treating the Bowling Ball Syndrome with the Tennant Biomodulator®, on her neck, corrected her whole spinal alignment. Dr. Al-Tubaikh and his radiographers were amazed!! As her daughter started to move with a normal gait, the mother started to cry. The child was referred to a chiropractor for further treatments.



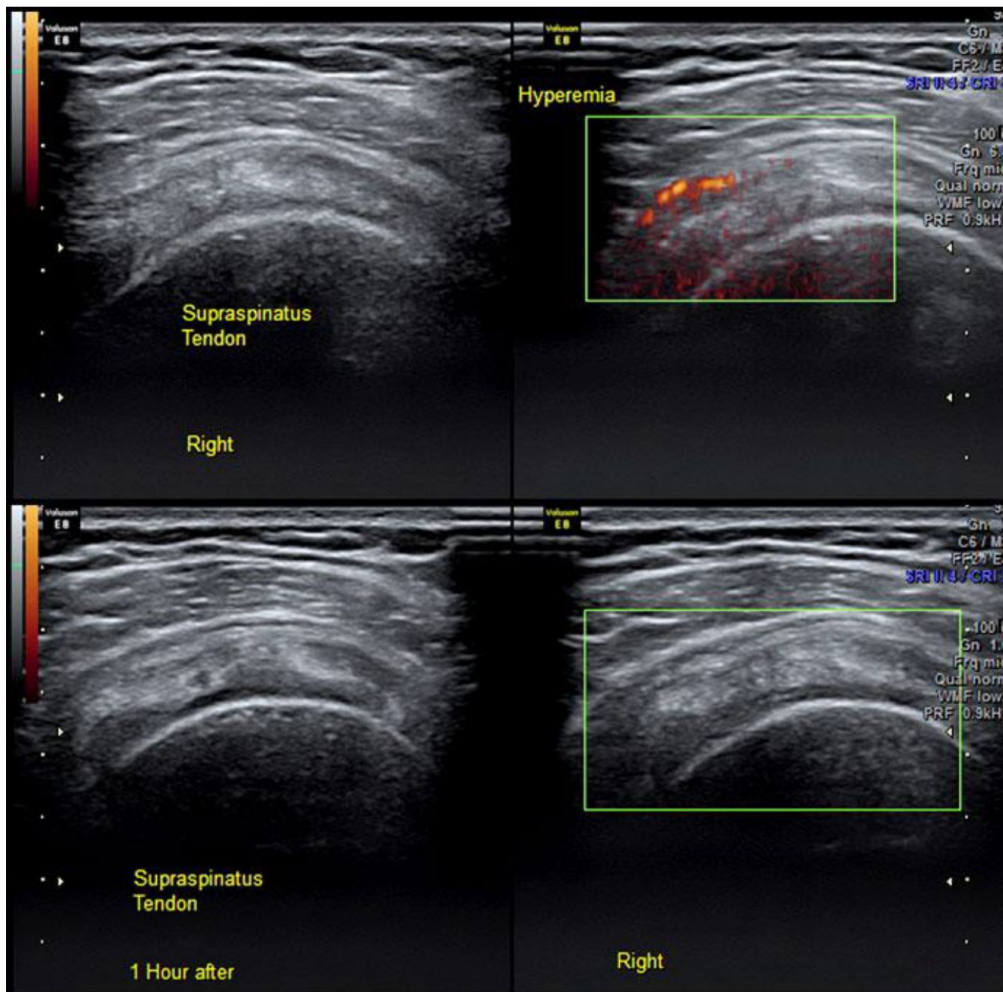
Data Provided by Jarrah Ali Al-Tubaikh MD, Sabah Hospital, Kuwait City, Kuwait – November 2014

X-Rays Show Structural Changes After Biomodulator Microcurrent Treatment

Case 5: Reduction of inflammation

A 28 year old female patient had a history of rheumatoid arthritis with stiffness and extreme pain. The patient's shoulder was imaged by musculoskeletal ultrasound which revealed one of her shoulder tendons (Supraspinatus) was inflamed. Inflammation can be imaged by a technique called "Power Doppler," where the machine indicates the power of blood perfusion in the area, which is typically high for inflamed tissues (Hyperemia) and normal in normal tissues.

The inflammation will be seen as a red signal within the examined tissue; this signal is NOT seen in normal tissues. The Biomodulator's Infinity mode was applied with self-adhesive, conductive electrode pads on her shoulder for one hour. After the one-hour treatment, her shoulder was re-imaged revealing the hyperemia was gone indicating the inflammation had subsided. The patient reported being completely pain-free. While stiffness persisted, it had improved.



Data Provided by Jarrah Ali Al-Tubaikh MD, Sabah Hospital, Kuwait City, Kuwait – November 2014

X-Rays Show Structural Changes After Biomodulator Microcurrent Treatment

Additional Case Summaries

Dr. Al-Tubaikh stated, “Really, I didn't expect such a profound effect on patients. I used the Biomodulator for three consecutive days at the hospital as word of mouth spread. In three days I have treated the following:

- A. One nurse with severe low back pain: She is seeing a chiropractor. I used the Biomodulator in Ten-8 mode for 7 minutes. She had complete relief of pain for more than 36 hours – the first time she’s been pain free for that long in years.
- B. A radiographer colleague had two disc protrusions in his neck, causing severe numbness in the hand for the past six months. I used the Biomodulator for 2 minutes in Ten-8™ mode in the disc area and 3 minutes on the hand. The result was approximately a 50% decrease in numbness. He asked for additional treatments in the future.
- C. A patient with chronic abdominal pain due to an ugly abdominal scar that had entrapped the nerves. She has had surgery to relieve the pain with partial improvement. The patient presented with severe pain. I used the Biomodulator to treat her. She was pain-free in three minutes and called it “a magic trick.”

Tennant Biomodulator® Technology

The Tennant Biomodulator® device uses specific, patented microcurrent technology to encourage the body to use its own resources to produce a healing outcome. Microcurrent has been shown^{1,2,3,4} repeatedly to reduce pain and improve a variety of health conditions.

While basic microcurrent technology has been around for more than 40 years, the Tennant Biomodulator® device uses a proprietary set of frequency patterns developed by Jerry Tennant, MD. These patterns or “modes” are delivered by patented microchips to produce very specific outcomes. These hand-held devices are FDA-cleared for the symptomatic relief and management of chronic, intractable pain and adjunctive treatment in the management of post-surgical and post-traumatic pain. The Tennant Biomodulator® uses different neural paths and a different wave form than a traditional TENS device. Rather than just masking pain, the Biomodulator targets C-fibers of the nervous system (most TENS devices work on the A- and B-fibers). C-fibers stimulate the production of neuropeptides and other regulatory peptides, which the body uses to heal itself.⁵

The Tennant Biomodulator® device produces unique, pulsed high-voltage, biphasic damped sinusoidal microcurrent electro-stimulation designed with Dr. Tennant’s frequency modes. These patented medical devices are manufactured in the USA by Avazzia, a Dallas-based company, exclusively for Senergy Medical Group, are US FDA cleared, and have earned the European CE mark.

Data Provided by Jarrah Ali Al-Tubaikh MD, Sabah Hospital, Kuwait City, Kuwait – November 2014

X-Rays Show Structural Changes After Biomodulator Microcurrent Treatment

Conclusion

Dr. Al-Tubaikh has more cases that are too many for this introductory report. The differences of before and after images following the Bowling Ball Syndrome treatment using the Tennant Biomodulator® can be objectively measured via radiological images revealing measureable changes in the structure and tissue. Reduction of inflammation is shown by Doppler imaging of soft tissue injuries.

While Dr. Al-Tubaikh's results are anecdotal, his "before" and "after" X-rays show structural changes in the body after Biomodulator treatments. He reports patients received immediate decrease in pain. In some cases, Dr. Al-Tubaikh treated the Bowling Ball Syndrome; in others, he treated specific pain symptoms.

It is apparent that in the hands of a medical professional, the Biomodulator device provided significant pain relief for many patients with various issues (back pain, neck pain, numbness in the hand, etc.) In each of these cases, patients had depleted all "traditional" options for pain relief.

The value of the Biomodulator device as another tool in a physician's tool kit is apparent. It is especially valuable for physicians, chiropractors, physical and occupational therapists, and others who regularly encounter "difficult" or "impossible" cases where pain is a significant factor.

Dr. Jarrah Ali Al-Tubaikh is an internist, surgeon and currently well-regarded radiologist, trained in Germany (LMU Klinikum Grosshadern, Munich), now working at a Kuwaiti-government (Al-Sabah) hospital. He has several publications to his credit, including the texts *Congenital Diseases and Syndromes: An Illustrated Radiological Guide* (Springer; 2009) and *Internal Medicine: An Illustrated Radiological Guide* (Springer; 2010).

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Sources

1. McMakin, CR (April 2004). "Microcurrent Therapy: A novel treatment method for chronic low back myofascial pain." *Journal of Bodywork and Movement Therapies* **8** (2): 143–153.
2. Park, RJ; Son, H; Kim, K et al. (2011). "The Effect of Microcurrent Electrical Stimulation on the Foot Blood Circulation and Pain of Diabetic Neuropathy." *Journal of Physical Therapy Science* **23** (3): 515–518.
3. Cho, MS; Park, RJ; Park, SH et al. (2007). "The effect of microcurrent-inducing shoes on fatigue and pain in middle-aged people with plantar fasciitis." *Journal of Physical Therapy Science* **19**(2): 165–170.
4. Lambert, MI; Marcus, P; Burgess T (April 2002). "Electro-membrane microcurrent therapy reduces signs and symptoms of muscle damage." *Med Sci Sports Exerc* **34** (4): 602–607.
5. Levine, JD; Fields, HL et al. (1993). "Peptides and the primary afferent nociceptor." *Journal of Neuroscience* **13**, 2273-2286.
6. Brodal, Per (2004). "The Central Nervous System: Structure and Function (3 ed.)." *Oxford University Press US*: 369-396.

Conflicts of Interest and Source of Funding: Jarrah Ali Al-Tubaikh, MD, Sabah Hospital in Kuwait City, Kuwait, provided the clinical facilities, radiological images, and patients reviewed in this report. No additional funding or additional resources from other sources were provided for this study. Jeanne Spreier, author of this publication, is independently contracted by Avazzia, Inc., Dallas, TX, USA. Avazzia developed and manufactures Tennant Biomodulator® microcurrent devices used in this report. Senergy Medical Group, 9901 Valley Ranch Parkway, Suite 1009, Irving, Texas, 75063 USA, www.senergy.us, 972-580-0545, is the exclusive worldwide distributor for the Tennant Biomodulator® medical device. Study-patients were not compensated for participation in the study.

Severe Long-term Knee Pain and Limp Mitigated with Biotransducer

Case Study of Patient with Possible Ahlback Disease

A 71-year-old diabetic patient with hepatitis C presented with a history of right knee osteoarthritis due to a fracture suffered 20 years ago. The patient came limping in to the radiology department to investigate his severe right-sided knee pain that hindered his gait.



The initial MRI images, taken Oct. 14, 2014, showed severe osteoarthritis, complete cartilage loss in the medial femoral condyle, osteoarthritic changes, and marked edema in the medial femoral condyle, suspicious of “Ahlback disease” (spontaneous osteonecrosis of the knee).

After discussing therapeutic options with the patient, which in his case are limited due to his medical condition and age, the option of pulsed electromagnetic frequency therapy using Tennant Biotransducer®, used in conjunction with the Tennant Biomodulator®, was suggested as a free-of-charge trial. Beginning Nov. 3, 2014, the patient was treated with daily, in 30-45 minutes sessions.

The patient reported reduction in pain and swelling of the knee and reduction in limping during the period of therapy. An MRI scan done on Dec. 2, 2014, documented any differences.



The MRI images shows an 80% to 90% complete resolution of the medial femoral condyle edema and the normal bone marrow signal return almost 90% to normal. The lack of significant changes in the tibia is simply because the position of the Biotransducer was concentrated for almost one month mainly over the medial femoral condyle region, the focus of pain. The patient is scheduled for another one-month therapy trial with concentration over the tibia, and another MRI scan is scheduled for the end of December 2014.

In each of the “before” and “after” MRIs (at right) the reduction in edema is clearly apparent. In addition, the reappearance/thickening of cartilage is visible.

Data Provided by Jarrah Ali Al-Tubaikh MD, Sabah Hospital, Kuwait City, Kuwait – December 2014

Tennant Biotransducer® and Biomodulator® Technology

A transducer is a device that converts one type of energy to another. The Tennant Biotransducer® uses a combination of technologies including actuation, piezoelectricity, semi-conduction and modulation to create a field that will transmit the frequencies of the Tennant Biomodulator®, a microcurrent device, past the skin and into the tissue more efficiently. The Biotransducer may be used over injured tissue, an acupuncture point or near difficult-to-access tissue. This hand-held, no-touch unit plugs into the accessory port of the Tennant Biomodulator®. When powered by the Biomodulator, it addresses the underlying cause of pain and inflammation without drugs or invasive medical procedures. It does not need skin contact and is able to transmit voltage and frequency through clothing.

The Tennant Biomodulator® uses specific, patented microcurrent technology to encourage the body to use its own resources to produce a healing outcome. Microcurrent has been shown^{1,2,3,4} repeatedly to reduce pain and improve a variety of health conditions. While basic microcurrent technology has been around for more than 40 years, the Biomodulator uses a proprietary set of frequency patterns developed by Jerry Tennant, MD.

These patterns or “modes” are delivered by patented microchips to produce very specific outcomes. These hand-held Biomodulator devices are FDA-cleared for the symptomatic relief and management of chronic, intractable pain and adjunctive treatment in the management of post-surgical and post-traumatic pain. This microcurrent device uses different neural paths and a different wave form than a traditional TENS device. Rather than just masking pain, the Biomodulator targets C-fibers of the nervous system (most TENS devices work on the A- and B-fibers). C-fibers stimulate the production of neuropeptides and other regulatory peptides, which the body uses to heal itself.⁵

The Tennant Biomodulator® device produces unique, pulsed high-voltage, biphasic damped sinusoidal microcurrent electro-stimulation designed with Dr. Tennant’s frequency modes. The Biomodulator and Biotransducer are manufactured in the U.S. by Avazzia, a Dallas-based company, exclusively for Senergy Medical Group.

Before and After Data Provided by Dr. Al-Tabaikh, Kuwait

Jarrah Ali Al-Tabaikh, MD specializes in radiological diagnostics of rare disorders. He is a member of the German Board of Radiology and currently works in the Radiology Department, Sabah Hospital, Kuwait City, Kuwait.

Since Dr. Al-Tabaikh was introduced to the Tennant Biomodulator® medical device for drug-free, non-invasive pain relief along with its accessory, the Tennant Biotransducer®, and protocols of Jerry Tennant, MD, MD(H), PScD of Colleyville, Texas, USA, Dr. Al-Tabaikh has significantly improved or eliminated ongoing pain for co-workers, family and patients. He takes images before and after treatment to document changes that have taken place after Biomodulator treatment. “It is hard to argue against radiological images because the evidence is clear; it is not placebo anymore.”

Data Provided by Jarrah Ali Al-Tabaikh MD, Sabah Hospital, Kuwait City, Kuwait – December 2014

Conclusion: Drug Free, Non-invasive Pain Relief

The differences revealed in the before and after MRIs following one month of non-invasive, drug-free treatment using the Tennant Biotransducer® in conjunction with the Biomodulator can be objectively measured, revealing dramatic, measureable changes in the structure and tissue of the knee. Dr. Al-Tubaikh also reports the male patient received immediate decrease in pain.

It is apparent that in the hands of a medical professional, the Biotransducer, coupled with the Biomodulator, provided significant pain relief for this patient from his old injury. The value of the Biotransducer, along with the Biomodulator, as tools for the physician is apparent. Medical professionals, including physicians, chiropractors, and physical and occupational therapists, would improve patient outcomes with access to these devices.

Dr. Jarrah Ali Al-Tubaikh is an internist, surgeon and well-regarded radiologist who trained in Germany (LMU Klinikum Grosshadern, Munich). He now works at a Kuwaiti-government (Al-Sabah) hospital. He has several publications to his credit, including the texts *Congenital Diseases and Syndromes: An Illustrated Radiological Guide* (Springer; 2009) and *Internal Medicine: An Illustrated Radiological Guide* (Springer; 2010).

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Participants: 7 patients between ages of 9 and 16

Principal Investigators: Dr. Cynthia Keller M.D. & Angela Zappone RDH

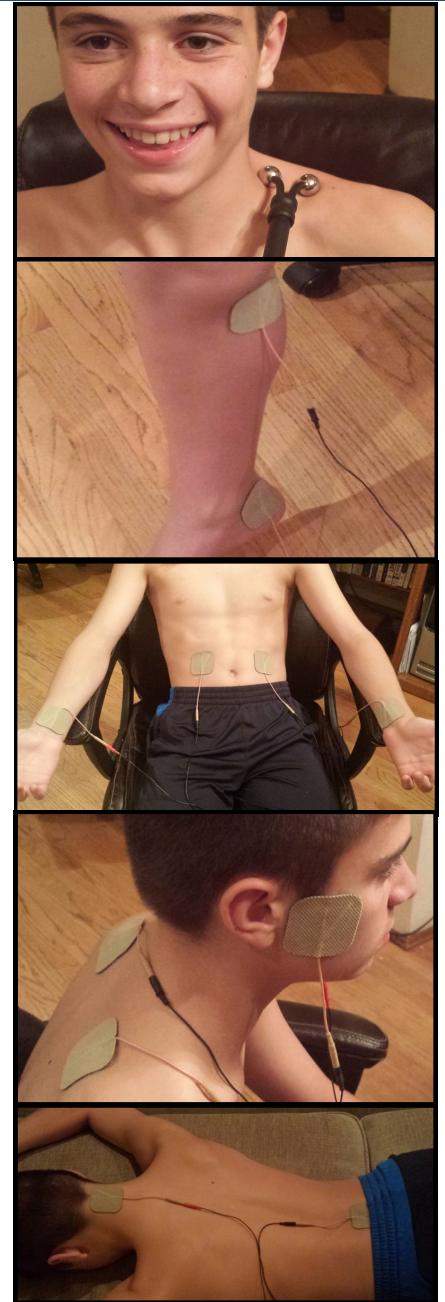
Drug Free • Non-Invasive • Pain Relief

This non-invasive therapy is successful in treating children with PTSD-like symptoms, as seen in post PANDAS, and carries over to other “stress disorders”

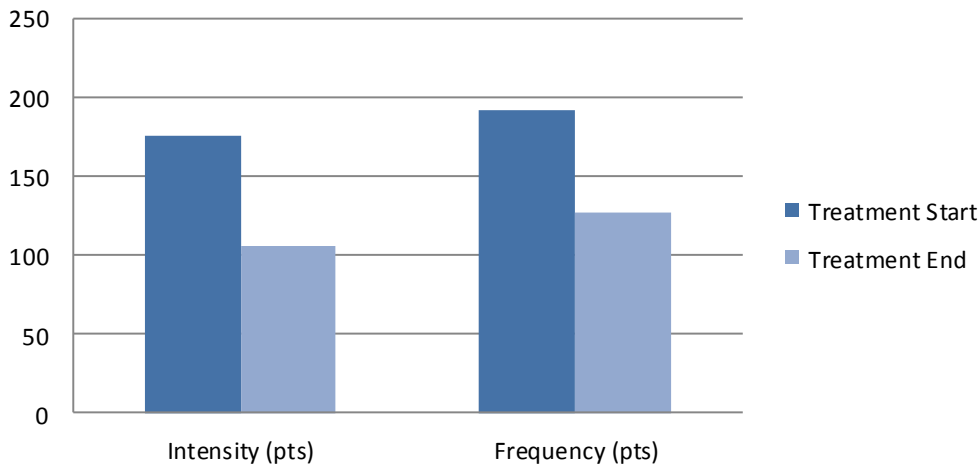
All children in the study exhibited physical symptoms such as aches, pain, headaches, muscle tension and pain in shoulders/neck, so protocol was compliant with FDA guidelines for Avazzia B.E.S.T. units.

EVERY child (and their parents) noticed significant changes in symptoms and their ability to cope with day to day living.

It made such a difference, that they continue to be seen for “tune ups” when under stress, and continue to improve.



Intensity and Frequency Reduced After Treatment



Protocol		
Location to Treat	Mode settings	Treatment time
Little Wings on sternocleidomastoid	Acute	5 cycles
Kidney 5 and Spleen 9	Stimulate	3-5 minutes
Liver 13 and Pericardium 6 Inner Pass	Stimulate	3-5 minutes
Stomach 7 and Bladder 11	Stimulate	3-5 minutes
Governing Vessel 15 Mutes Gate and Governing Vessel 3 Lumbar Yang Pass	Stimulate	5-10 minutes

Evaluated symptoms based on intensity and frequency, using a one-to-five point scale.

Of the 7 who completed the study, the cumulative scores for intensity of symptoms at start were 176, Dropping to 105 at study end decreasing 71 points or 40.3%

Scores for frequency went from 192 to 127, decreasing by 33.9%



EFFICACY OF MICROCURRENT AS AN ADJUNCT THERAPY IN THE TREATMENT OF CHRONIC WOUNDS

Harikrishna K.R. Nair, MD FMSWCP, Wound Care Unit, Dept. of Internal Medicine, SCACC Hospital Kuala Lumpur, Malaysia

ABSTRACT

10 patients with chronic wounds were randomly selected from the Wound Care Unit, Hospital Kuala Lumpur to assess the efficacy of Microcurrent therapy in accelerating wound healing. The patients had the following conditions- 7 Diabetic Foot Ulcer (DFU), 2 Venous Leg Ulcer, 1 Pressure Injury.

METHODOLOGY

Each patient had Microcurrent therapy delivered while having their wounds cleansed. The settings used with the Pulsed Electro Magnetic Field Device attached to the Microcurrent device were MODULATE (for 10 minutes) followed by VASO (for 10 minutes). Patients were loaned a home-Microcurrent device for which they had to use adhesive pads and treat themselves using ACUTE 3:1 mode (for 20 minutes) followed by RSI mode (for 20 minutes). Each of these modes were applied around the bandaged area (thus not having to open the wound dressing to deliver treatment). The home treatments were carried out 2 to 3 times a day for a period of one month. Wound care was performed with Microcurrent Treatment as an adjunctive therapy.

The aims of the treatments were:

- reduction in wound size
- reduction in inflammation- pain, swelling, joint stiffness, frequency and dosage of analgesics
- increase in vasodilation (skin discolouration, ease in walking)

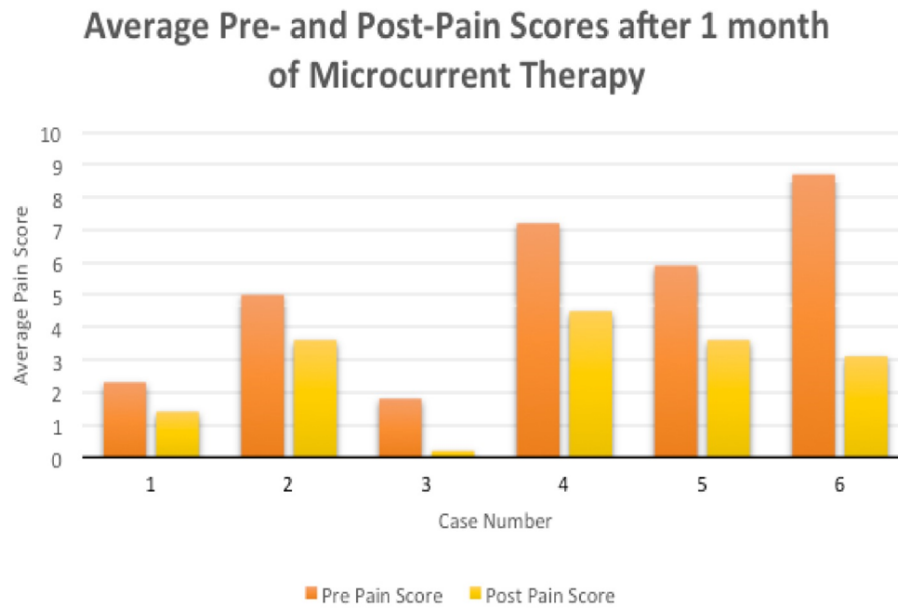


Figure 2: Average Pre-and Post-Pain Scores after 1 month of Microcurrent Therapy

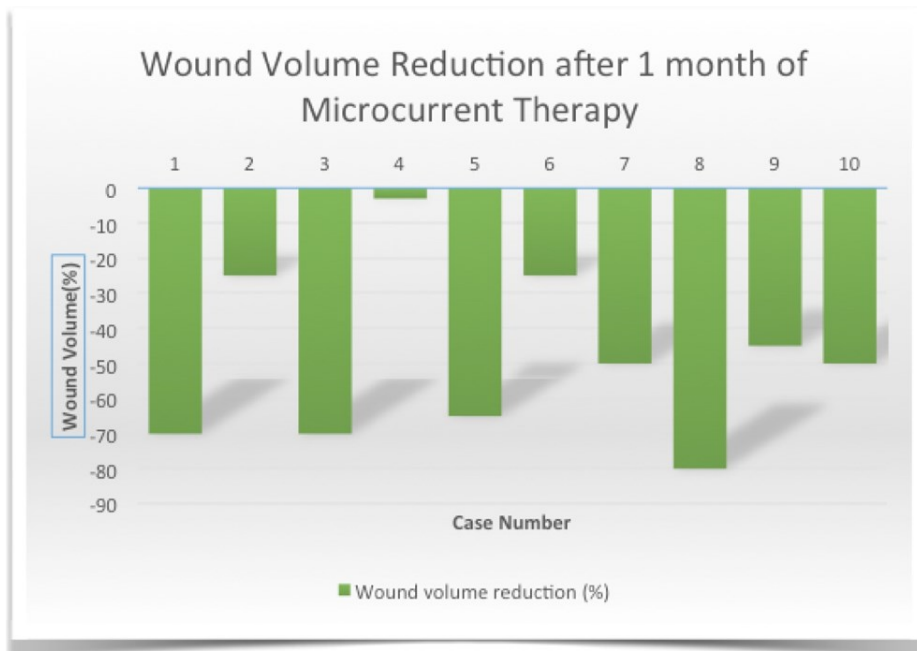


Figure 1: Wound Volume Reduction after 1 month of Microcurrent Therapy

ADJUNCT THERAPY FOR PAIN RELIEF WITH WOUND CARE

Case 1



A 66 year old Indian gentleman presented with a Left Diabetic Foot Ulcer (DFU) with Ray's Amputation done in February 2015. Microcurrent treatment was initiated 5 months later and within 1 month of treatment, wound area reduced by 70%. Ankle pain reduced by 40%. He was pain free on Day 30 of treatment. Ankle stiffness and swelling reduced.

Case 4



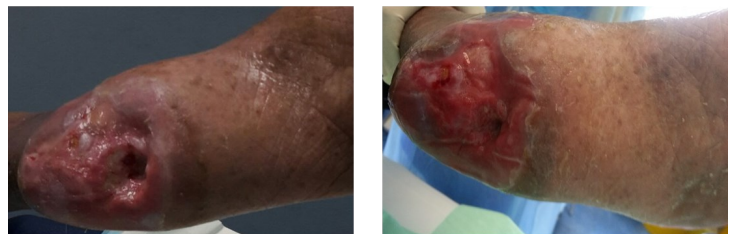
A 49 year old Malay lady presented with Left DFU on lateral hind of foot for 1.5 months. After 10 days of Microcurrent treatment, wound area reduced by 3%. Pain reduced by 40% and this improved sleep pattern by 60%.

Case 2



A 66 year old Indian gentleman presented with Venous Ulcer on Right Lower Limb since 2014. After 1 month of Microcurrent treatment, wound size reduced by 25%. Pain reduced by 30% which caused a 50% improvement in sleep pattern. Leg stiffness reduced. Requirement of Tramadol 50mg TDS was reduced to 50mg daily after 2 weeks of Microcurrent treatment.

Case 5



A 65 year old Indian gentleman presented with Left foot (medial aspect) DFU at the plantar aspect of the heel for the past 20 months. After 1 month of Microcurrent treatment, wound area reduced by 65%. Pain reduced by 40%. Foot stiffness and leg swelling also reduced. Requirement of Tramadol reduced from 50mg TDS to 50mg OD after 1 week of Microcurrent treatment. After 2 weeks, Tramadol was reduced to a prn basis.

Case 3



A 44 year old Indian gentleman presented with Left sacral ulcer since February 2013. After a few sessions of Microcurrent treatment, wound area reduced by 70%. Pain reduced by 90%.

Case 6



A 29 year old Indian lady presented with Left Venous Leg Ulcer since April 2015. After 1 month of Microcurrent treatment, wound area reduced by 25%. Pain around wound reduced by 65% and ankle swelling also reduced. However, the daily pain score before treatment was always high. This could be because this patient is postulated to have psychological stress and may not know how to assess pain properly. She did however have significant reduction in pain after each treatment session. Requirement of Tramadol 50mg TDS was reduced to nil after 10 days of treatment.

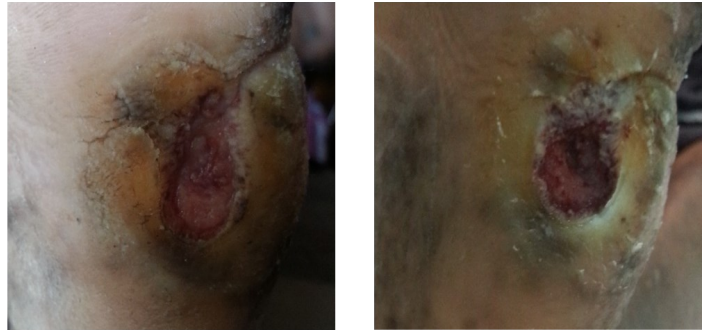
ADJUNCT THERAPY FOR PAIN RELIEF WITH WOUND CARE

Case 7



A 54 year old Malay gentleman presented with a non-painful wound over the Right medial tibia (hole) since 2005. After 1 month of Microcurrent treatment, there was a reduction of 50% in both wound volume. Swelling of the leg and stiffness of the toes reduced. Since 2005 he walked using a walking stick and towards the end of treatment he could walk short distances without aid.

Case 9



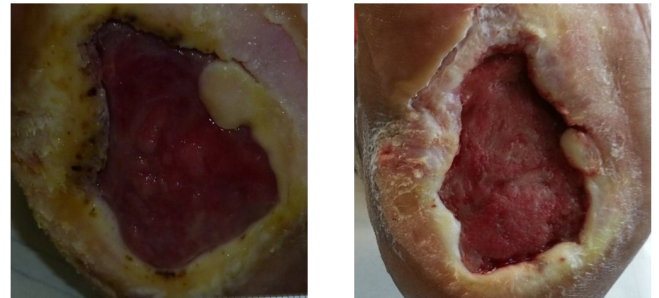
62 year old Indian lady presented with non-painful Left lateral DFU for past 3 years. After 1 month of Microcurrent treatment, wound area reduced by 45%. Ankle swelling and stiffness reduced. Neuropathic pain stopped after 4 days of the treatment causing sleeping pattern to improve. Sleep quality improved and she did not need sleeping pills towards the end of treatment.

Case 8



A 53 year old Indian gentleman presented with a non-painful Right DFU at hind foot aspect for past 8 months. After 1 month of Microcurrent treatment, wound volume reduced by 80%. Ankle swelling and stiffness reduced. Patient's gait improved from walking tip toed to normal gait after third day of treatment.

Case 10



A 60 year old Malay gentleman presented with a non-painful Right DFU at the plantar medial aspect of the heel for past 19 months. After 1 month of Microcurrent treatment, wound volume reduced by 50%. Leg and ankle swelling and foot stiffness reduced.

CONCLUSION

The combination of good wound care coupled with Microcurrent as an adjunctive therapy was proven to be effective in accelerating healing in all these cases of chronic wounds.

Microcurrent devices used in this study were Avazzia Scalar-Qi (Pulsed Electro Magnetic Field Device) attached to Avazzia PRO-SPORT III (professional Microcurrent device) at the hospital. Patients were loaned Avazzia BEST-RSI device which is a home based Microcurrent unit. Avazzia Microcurrent devices using BEST (Biofeedback Electro Stimulation Technology) helps redress an underlying physiological dysfunction as well as reducing its symptoms.

The mechanism of action appears to act as a trigger vasodilation which increases perfusion to the wound. This is by increasing levels of Nitric Oxide which is a potent vasodilator (4). In terms of Pain Management, Cortisol and TNF- α levels are reduced (5).

The ease of use of Avazzia Microcurrent devices advocate its use in accelerating wound healing. It could be applied as a first priority on the list of wound care therapy.

RESULTS

- All 10 subjects had reduction in wound size and pain.
- There were also reduction in other inflammatory symptoms such as swelling and stiffness due to increased vasodilatation as postulated.
- Gait improved as leg felt lighter and also sensation improved.
- All patients also had a likely increase in perfusion due to the effect of vasodilatation of the vessels.
- There was no adverse events reported.

References:

1. Harikrishna K.R. Nair, Compendium of Wound Care Dressings in Malaysia, 3rd Edition
2. www.avazzia.com
3. Manual of Avazzia BESTTM Devices: Biofeedback Electro-Stimulation (2009) Principles and Practice in the management of acute and chronic pain. Dallas: Avazzia Inc.
4. Lee ZS, BEST (Biofeedback Electro-Stimulation Therapy) on Chronic Neuropathic Pain: Effects on Pain Score and Pain Biomarker Nitric Oxide
5. Ng MM, Avazzia Biofeedback Electrostimulation Therapy (Avazzia BEST): Its Effect On Changes in Pain Biomarkers on Chronic Neuropathic Pain: A Prospective Randomised Controlled Trial

AVAZZIA PRODUCTS



COMPARING AVAZZIA DEVICES



	PRO-SPORT III	BEST-RSI	BEST-PRO 1	Avazzia Blue
Prescription Required in U.S.	Yes	Yes	Yes	Yes
Modes	50+ pre-set modes; 4 programmable modes	4 pre-set modes	4 pre-set modes	2 pre-set modes
Reaction Readings	5 pre-set modes; 4 programmable modes	None	Assess Relax	None
Display of Tissue Response	Digital back-lit display and readout	Lights, beeps D/Z	Lights, beeps IR/D/Z	None
Digital display	Yes	No	No	No
Ease of use	Professional model; training highly recommended	Used at home or in HCP setting; training advised	Home model; training advised for maximum benefit	Home model; simple two-mode unit
Timer	Digital back-lit display/readout	Beeps at 30 seconds; 2 minutes	Beeps at 30 seconds; 2 minutes	Beeps at 30 seconds; 2 minutes
Frequencies	.5Hz to 1565Hz	15Hz to 350Hz	15Hz to 350Hz	15Hz to 350Hz
RSI mode/ chronic pain	Yes	Yes	No	No
Accessories	Compatible with all Avazzia accessories (sold separately)	Compatible with all Avazzia accessories (sold separately)	Compatible with all Avazzia accessories (sold separately)	Compatible with all Avazzia accessories (sold separately)
Programmable	Yes	No	No	No
Handheld/ portable	Yes	Yes	Yes	Yes
Power source	2 AA batteries	2 AA batteries	2 AA batteries	2 AA batteries
FDA cleared for pain relief	Yes	Yes	Yes	Yes

PRO-SPORT III DEVICE



The PRO-SPORT provides long-lasting pain relief for patients without drugs or surgery.

- With the PRO-SPORT III device users are able to select from over fifty pre-programmed modes, and four user programmable modes, in order to give the most versatility when treating patients.
- These modes include user-favorite, RSI, BLUE Stimulate, Blue Relax, VASO, cosmetic body shaping modes, and more.
- The Avazzia PRO-SPORT III is able to take tissue reaction readings, and assign a numerical value to the tissue reaction, to allow practitioners to measure when the device is making a difference for the patient.

Advanced engineering allows the user to control power level, pulsing action, damping, modulation and more.

- Over 50+ Modes for User Flexibility
- Relax Assess (Reactions)
- Modulate, off, 0.5:1, 1:1, 2:1, 3:1, 4:1, 5:1, and 6:1
- Stimulate
- Deep Stimulate
- Blue Stimulate
- RSI
- Acute
- Acute Trauma
- VASO

Uses two AA batteries.



AVAZZIA BEST-RSI DEVICE

The BEST-RSI provides long-lasting pain relief without drugs or surgery.

- These hand-held devices are FDA-cleared for the symptomatic relief and management of chronic, intractable pain and adjunctive treatment in the management of post-surgical and post-traumatic pain.
- These devices offer microcurrent electro-therapy, using interactive reactions to provide noninvasive and non-pharmacological pain relief.
- The engineer who created the BEST products also created the “logic chips” used in Apollo moon missions and F-14 and F-15 fighter jets while he was with Texas Instruments.



BEST-RSI — Simple to Use



The Avazzia BEST-RSI is simple to use with four modes for targeted pain relief. BEST-RSI has the RSI mode — the strongest available in a microcurrent device.

1. Turn on the device; place onboard electrodes or electrode pads or Y-electrode on area being treated.
2. Select a comfortable power level.
3. Select an operating mode and apply for several minutes. Easy-to-see LEDs indicate mode being used.
4. Select the next mode and repeat treatment.
5. BEST-RSI has been used to treat pain connected with neuropathy, fibromyalgia, carpal tunnel syndrome, chronic pain from old sports injuries and “weekend warrior” aches.

Uses two AA batteries.

AVAZZIA BEST PRO-1 DEVICE



BEST-PRO 1 — Pain Relief Without Drugs

- The BEST-PRO 1 provides long-lasting pain relief without drugs or surgery.
- These hand-held devices are FDA-cleared for the symptomatic relief and management of chronic, intractable pain and adjunctive treatment in the management of post-surgical and post-traumatic pain.
- BEST devices are engineered, manufactured and serviced in Dallas. The engineer who created the BEST products also created the “logic chips” used in Apollo moon missions and F-14 and F-15 fighter jets while he was with Texas Instruments.

BEST-PRO 1 — Simple to Use

The Avazzia BEST-PRO 1 is simple to use with four modes for targeted pain relief.

1. Turn on the device; place onboard electrodes or electrode pads or probe on area being treated.
2. Select a comfortable power level.
3. Select an operating mode and apply for several minutes. Easy-to-see LEDs indicate mode being used.
4. Select the next mode and repeat treatment.



Uses two AA batteries.

AVAZZIA BLUE DEVICE

The Avazzia Blue device provides long-lasting pain relief without drugs or surgery.

- These hand-held devices are FDA-cleared for the symptomatic relief and management of chronic, intractable pain and adjunctive treatment in the management of post-surgical and post-traumatic pain.
- These devices offer microcurrent electro-therapy, using interactive reactions to provide noninvasive and non-pharmacological pain relief.
- The engineer who created the BEST products also created the “logic chips” used in Apollo moon missions and F-14 and F-15 fighter jets while he was with Texas Instruments.



Avazzia Blue — Simple to Use



The Avazzia Blue is simple to use with four modes for targeted pain relief. Blue has two modes: Blue Relax, and Blue Stimulate

Turn on the device; place onboard electrodes or electrode pads or Y-electrode on area being treated.

1. Select a comfortable power level.
2. Select an operating mode and apply for several minutes. Easy-to-see LEDs indicate mode being used.
3. Select the next mode and repeat treatment.
4. Avazzia Blue has been used to treat pain connected with neuropathy, fibromyalgia, carpal tunnel syndrome, chronic pain from old sports injuries and “weekend warrior” aches.

Uses two AA batteries.

AVAZZIA PRODUCT DETAILS

PRO-SPORT III Device

\$3,845



- 51 Preprogrammed Modes for the Professional
- 4 Programmable User Defined Modes
- Digital Backlit Display
- Body Reaction Measurements

PRO-SPORT III Device Kit

\$4,295



- Kit includes device,
- Y-Electrode
- Pencil Electrode
- Brush Electrode
- Large Carry Case
- 2: 250 Lead wire
- 2: RB Lead wire (Pads)
- 2: 2"x2" conductive pads

BEST-RSI Device

\$1,331



BEST-RSI Modes

- Relax** for acute conditions
- Deep Stimulate** for chronic pain
- RSI** for strongest pain relief
- Acute** for acute pain

BEST-RSI Device with Y-electrode

\$1,499



- Kit includes device,
- RB Lead wire (Pads),
- 2: 2"x2" conductive pads
- Y-Electrode
- 250 Lead wire (electrode)
- BEST Carry Case.

Avazzia BLUE Device

\$299



Avazzia Blue Modes

- Blue Relax** for acute conditions
- Blue Stimulate** for chronic conditions

Avazzia BLUE kit for patients

\$349



- Kit includes device,
- RB Lead wire (Pads),
- 2: 2"x2" conductive pads package of 4
- Zipper pouch

Best for patients

Avazzia BLUE Device with Y-electrode

\$595



- Kit includes device,
- RB Lead wire (Pads)
- 2: 2"x2" conductive pads
- Y-Electrode
- 250 Lead wire (Electrodes)
- BEST Carry Case

SUPPORT



FREQUENTLY ASKED QUESTIONS

Frequently Asked Questions by Federal Qualified Community Health Centers

BENEFITS and USAGE

How does the Avazzia Technology benefit a community health center?

Effective patient outcomes

Significantly reduced costs due to less spending on expensive narcotics

No patient side effects – avoid the side effects of narcotics – addiction, overdose, death, violent crime

What can I use it for? What are the indications for use?

FDA cleared for pain

How long is a typical treatment?

2-15 minutes is the length of a typical basic treatment.

How does it work?

Avazzia therapy applied to the skin and stimulates the body's natural pain relievers

Does it require a prescription?

Yes

BILLING

Can we bill for our services? Yes.

Microcurrent devices have been cleared by the US FDA for treatment of chronic pain, joint pain, symptomatic relief and management of chronic intractable pain; adjunctive treatment in the management of post-traumatic and post-surgical pain.

Some chronic or joint pain ICD-10s include:

G89.29 Chronic Pain	M25.561/M25.562 R / L Pain: Joint: Knee	M79.601/M79.602 R / L Pain: Arm
G89.28 Pain: Postoperative: Chronic	M25.571/M25.572 R / L Pain: Joint: Ankle	M79.641/M79.642 R / L Pain: Hand
M54.9 back pain	M79.671/M79.672 R / L Pain: Joint: Foot	M79.644/M79.645 R / L Pain: Fingers
M54.5 Lumbar region pain	M25.531/M25.532 R / L Pain: Joint: Wrist	R10.2 Pain: Joint: Pelvic Region
M25.551/M25.552 R / L Pain: Joint: Hip	M25.521/M25.522 R / L Pain: Joint: Elbow	G50.1 Pain: Face: Facial, Atypical
M79.604/M79.605 R / L Pain: Joint: Leg	M25.511/M25.512 R / L Pain: Joint: Shoulder (region)	

Does insurance pay for a home use device for a patient?

Yes, insurance often provides benefits based on carrier, policy, and patient history.

Can the device be rented? Can a device be rented to buy?

Yes, practitioners do use both of these strategies.

TRAINING

How do practitioners get trained?

Online: Free and subscription-based training is available at www.avazziatraining.com

Onsite: Arrangements can be made for training at your location.

How do patients get trained?

Training is minimal for a patient as the home use devices are simple to use. Turn it on and put it on. An owner's manual is provided

Online: Free and subscription-based training is available at www.avazziatraining.com

CHC Practitioner: The CHC practitioner can instruct the patient on appropriate home use.

AVAZZIA BILLING CODES

DRUG FREE • NON-INVASIVE • PAIN RELIEF

Suggested Treatment Reimbursement Codes

CPT code	Descriptions
97032	Attended electrical stimulation (15 minutes)
G0283	Electrical stimulation unattended (15 minutes)
97014	Electrical stimulation unattended Worker's Compensation (15 minutes)
90901	Biofeedback (15 minutes)
97535	Self care/home management training to use device

Device Codes HCPC

Device Code	Descriptions
E0720	TENS
E0731	Conductive Garment
A4595	Tens Supplement (Pads, wires, accessories)

Initial and Follow up Evaluation Reimbursement Codes

CPT (I/F)	Descriptions
99201/99211	Evaluation & Management– Limited
99202/99212	Evaluation & Management– Expanded
99203/99213	Evaluation & Management– Detailed
99204/99214	Evaluation and Management– Comprehensive
99205/99215	Evaluation & Management– Complex

Information provided for illustration purposes and no express or implies warranty is made on accuracy, suitability or applicability of the codes.



AVAZIA TRAINING

Using an Avazzia BEST™ device is easy – often as easy as turning it on and placing the electrodes on the point of pain.

While easy to use, the BEST™ devices are best used in the hands of a skilled user, which is why training is so important to improve that quality of results.

Go to avazziatrainning.com to explore the many video testimonials of how Avazzia owners are using their device to improve their health.

Avazzia offers free videos to get an overview of how to use your device.



Subscribe to the Avazzia Online Training site. New users can try our core training for \$1 using the coupon: **Avazzia**. Unsubscribe to avoid future charges, Avazzia will not be responsible for additional charges.

View our Calendar of Events to find in-person trainings and events offered for Avazzia products.

Join our mailing list for our newsletter highlighting upcoming Avazzia events, tips on healthy, pain-free lifestyles, special offers and more.



Avazzia, Inc.

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Dallas, TX 75240

(T) (214) 575-2820

(F) (214) 575-2824

AVAZIA TRAINING

Avazzia offers a collective of online training videos and seminars to allow flexibility in learning on a tight schedule.

Avazziatraining.com is designed to help physicians and healthcare practitioners review protocol and technique knowledge acquired through core and advanced classroom training. Training is vital for proper integration of Avazzia devices into a practitioner's specific practice, as well as providing basic device training for office personnel.

Online training videos also help practitioners demonstrate to patients the applied protocol or technique that will be used in their treatment. These demonstrations can be shown to the patient conveniently either on an office computer or through a tablet application.

The screenshot shows the Avazzia Training website interface. At the top, there is a navigation bar with links for Home, Support, Subscribe, and Log In. Below this is the Avazzia Training logo and a menu with categories: Device, Pain Protocols, Chronic, Seminars, Discussion, and Support. The main content area displays the title 'Hache, ND - Level 1, July 19, 2014' and a table of course titles, levels, instructors, durations, and release dates.

Course Title	Level	Instructor	Duration	Released
1. Introduction and course outline	Open	Dr. Hache	15:23 min	04/15
2. Inflammation and collagen	Core	Dr. Hache	11:21 min	04/15
3. Scar tissue discussion	Core	Dr. Hache	12:50 min	04/15
4. How and when to use a device	Core	Dr. Hache	8:50 min	04/15
5. Psoriasis discussion	Core	Dr. Hache	5:12 min	04/15
6. Scar and Inflammation treatment discussion	Core	Dr. Hache	7:36 min	04/15
7. Radicals, telomeres, inflammation	Core	Dr. Hache	12:26 min	04/15
8. Anti-inflammatory restoration	Core	Dr. Hache	10:24 min	04/15
9. Heavy metals and emf radiation	Core	Dr. Hache	11:59 min	04/15
10. Proprioception and body alignment demo 1	Core	Dr. Hache	13:52 min	04/15
11. Body alignment demo 2 and 3	Core	Dr. Hache	11:20 min	04/15
12. Body alignment demo 4 and 5	Core	Dr. Hache	7:18 min	04/15
13. Scoliosis discussion	Core	Dr. Hache	10:32 min	04/15

AVAZIA TRAINING

Avazzia offers a collective of online training videos and seminars to show patients how to use their devices from home, without taking up valuable office time.

Avazziatraining.com is designed to help physicians and healthcare practitioners but also, **patients** review protocols and basic device knowledge including how to use the Avazzia device, and how to care for their Avazzia device.

Training is vital for proper use of Avazzia devices into a patient's daily care routine, as well as providing basic device training for device care. Online training videos also help demonstrate to patients the applied protocol or technique that will be used in their treatment. These demonstrations can be viewed by the patient conveniently either on an office computer or through a tablet application.

Avazziatraining.com offers an assortment of free device instruction and basic protocol videos for patients.

The screenshot shows the Avazzia Training website interface. At the top, there is a navigation bar with links for Home, Support, Subscribe, and Log In. Below this is the Avazzia Training logo and a secondary navigation bar with links for Device, Pain Protocols, Chronic, Seminars, Discussion, and Support. The main content area is titled "Device Protocols - B.E.S.T. Professional Biofeedback" and contains a table of course information. A "subscribe" button is located below the table, and the RapidSSL logo is in the bottom right corner.

Course Title	Level	Instructor	Duration	Released
BEST PRO1 - Device Instruction	Open	T. Lahutsky	11:38 min	07/12
BEST RSI - Device Instruction	Open	T. Lahutsky	8:25 min	07/12
Pro-Sport Basic Operation	Open	T. Lahutsky	23:00 min	07/12
BEST-PRO 1 at Sanoviv Medical Institute-English	Open	Berthelette	09:47 min	06/13
BEST-PRO 1 at Sanoviv Medical Institute-French	Open	Berthelette	09:47 min	06/13
Avazzia BLUE Device Instructional Video	Open	T. Lahutsky	5:19 min	12/14

PHYSICIAN'S STATEMENT OF MEDICAL NECESSITY

Please complete, sign, date and fax to (214) 575-2824

Patient's Name: _____ Date of Birth: _____

Patient's Address: _____

Patient's Phone Number: _____

Date of Injury/Onset: _____ Date of Face-to-Face Examination within past 6 months: _____

Diagnosis / ICD-10 that the patient was evaluated and/or treated for:

<input type="checkbox"/> G89.29 Chronic Pain	<input type="checkbox"/> M25.561/M25.562 R / L Pain: Joint: Knee	<input type="checkbox"/> M79.601/M79.602 R / L Pain: Arm
<input type="checkbox"/> G89.28 Pain: Postoperative: Chronic	<input type="checkbox"/> M25.571/M25.572 R / L Pain: Joint: Ankle	<input type="checkbox"/> M79.641/M79.642 R / L Pain: Hand
<input type="checkbox"/> M54.9 back pain	<input type="checkbox"/> M79.671/M79.672 R / L Pain: Joint: Foot	<input type="checkbox"/> M79.644/M79.645 R / L Pain: Fingers
<input type="checkbox"/> M54.5 Lumbar region pain	<input type="checkbox"/> M25.531/M25.532 R / L Pain: Joint: Wrist	<input type="checkbox"/> R10.2 Pain: Joint: Pelvic Region
<input type="checkbox"/> M25.551/M25.552 R / L Pain: Joint: Hip	<input type="checkbox"/> M25.521/M25.522 R / L Pain: Joint: Elbow	<input type="checkbox"/> G50.1 Pain: Face: Facial, Atypical
<input type="checkbox"/> M79.604/M79.605 R / L Pain: Joint: Leg	<input type="checkbox"/> M25.511/M25.512 R / L Pain: Joint: Shoulder (region)	

Other ICD-10 Codes: _____

Other Diagnosis: _____

Previous Treatment(s)/Medications (include dosage if medication): _____

Results: Check the one that applies: Previous treatments were sufficiently effective.
 Previous treatments failed and were not sufficiently effective.

Product Description:

Microcurrent biofeedback Avazzia TENS device with lead wire and conductive pads

Conductive garment _____ is _____ is not medical necessity. Check all that apply:

- Large area to be treated
- Multiple sites to be treated
- Areas are inaccessible with the use of conventional electrodes, adhesive tapes, and lead wires.
- Medical conditions, such as skin problems, that preclude the application of conventional electrodes
- Therapy required beneath a cast

- | | | | |
|--------------------------------|--|--|--|
| <input type="checkbox"/> Left | <input type="checkbox"/> Carpal Wrap | <input type="checkbox"/> Elbow Wrap | <input type="checkbox"/> Conductive Glove |
| <input type="checkbox"/> Right | <input type="checkbox"/> Ankle Wrap | <input type="checkbox"/> Shoulder Wrap | <input type="checkbox"/> Conductive Sleeve |
| <input type="checkbox"/> Both | <input type="checkbox"/> Cervical Wrap | <input type="checkbox"/> Arm or Leg Wrap | <input type="checkbox"/> Conductive Sock |
| | | | <input type="checkbox"/> Conductive Leg Sleeve |

Length of

_____ Number of months (short term) _____ 9 months or longer (long term) _____ Purchase

Need:

I certify that the above prescribed treatment is medically necessary for the patient's wellbeing. In my opinion, the treatment is effective and is reasonable in the treatment of this patient's condition. I also certify that the information noted above is accurate to the best of my knowledge.

Physician's Signature: _____ Date: _____

Physician's Name (print): _____ NPI number: _____

Clinic Name: _____ Phone Number: _____

Physician's Address: _____

DO NOT SUBSTITUTE

CONFIDENTIAL INFORMATION

ORDER FORM



ORDER FORM	Date
Sales Rep	PO

BILL TO INFORMATION (please print)	SHIP TO INFORMATION (if different)
Customer Name	Customer Name
Contact Name	Contact Name
Lic No or RX	
Address	Address (Will not ship to PO Box)
City, State, Zip	City, State, Zip
Day Phone	Day Phone
Preferred email	Preferred email

PRODUCT	DETAILS	PRICE	QTY	TOTAL
PRO-SPORT III ◇	*	\$3,845.00		
PRO-SPORT III Kit ◇	*	\$4,295.00		
PRO-SPORT Ultra ◇	*	\$2,545.00		
PRO-SPORT Ultra Kit ◇	*	\$2,995.00		
BEST-RSI ◇	*	\$1,331.91		
BEST-RSI Kit ◇	*	\$1,364.07		
BEST-RSI Kit with Y-Electrode ◇	*	\$1,499.00		
BEST-PRO 1 ◇	*	\$995.00		
BEST-PRO 1 Kit ◇	*	\$1,050.00		
BEST-PRO 1 Kit with Y-Electrode ◇	*	\$1,149.00		
Avazzia Blue ◇	*	\$299.00		
Avazzia Blue Kit ◇	*	\$349.00		
Avazzia Blue Kit with Y-Electrode ◇	*	\$499.00		
BEST-Vet PRO	*	\$1,189.00		
BEST-Vet PRO Kit	*	\$1,299.00		
BEST-Vet	*	\$699.00		
BEST-Vet Kit	*	\$899.00		
Total from Front				

* *Serial number must be recorded*

Continued

◇ *Prescription required*

ORDER FORM



PRODUCT ORDER FORM (Continued)

PRODUCT	DETAILS	PRICE	QTY	TOTAL
Ezzi-lift/Photodynamics	*	\$648.00		
Ezzi-lift/Photodynamics Kit	*	\$794.00		
Ezzi-lift	*	\$349.00		
Ezzi-lift Kit	*	\$495.00		
MEAD 20	*	\$2,495.00		
Zipper Pouch		\$30.00		
Medium 7 x 11 in. case		\$35.00		
Large rigid case		\$150.00		
Conductive Pads	2 X 2 square pads (4 per pkg)	\$4.50		
	3 X 5 rectangle (2 per pkg)	\$6.50		
	Face mask	\$24.00		
	Eye Mask	\$20.00		
Conductive Garment	Glove Sock Arm Leg (circle selection/s)	\$59.00 each		
Conductive Wrap	Knee Ankle Back Elbow Neck (circle selection/s)	\$250.00 each		
	Arm/Leg Wrist (circle selection/s)	\$119.00 each		
Electrode Accessory	Brush Y-Electrode Pencil (circle selection/s)	\$150 each		
	Finger Electrode	\$25.00		
MEAD NIC Cotton	Pkg of 120	\$49.00		
Lead Wire/4 Pin	4 Pin to RB Split Wire (for 2 pads)	\$15.00		
	4 Pin to 2 sets RB Split Wire (for 4 pads)	\$25.00		
	4 Pin to 2.5 mm standard plug (for Y-, brush, pencil electrodes)	\$15.00		
	Adaptor/4 Pin to 1.3 mm jack (connects Avazzia/scenar accessories)	\$15.00		
	Adaptor 4 Pin to 250 jack	\$22.00		
	Attenuator 4 Pin 15K Ohm 2.5 mm jack	\$22.00		
Total from page 2				

* *Serial number must be recorded*

Continued

◇ *Prescription required*

ORDER FORM



PRODUCT ORDER FORM (Continued)

PRODUCT	DETAILS	PRICE	QTY	TOTAL
Lead Wire/Stereo	Lead wire 2.5 mm to RB Split Wire (for 2 pads)	\$15.00		
	Standard lead wire 250 mm (for Y-, brush, pencil electrodes)	\$15.00		
	Adaptor connector - male 2.5 mm to female .7 mm	\$21.00		
	Lead wire 1.3 mm to TENS connectors	\$21.00		
	Standard splitter lead wire	\$15.00		
	Damper/Attenuator	\$22.00		
TOTAL / Page Three				
TOTAL/ Page Two				
TOTAL/ Page One				
Shipping	Carrier Overnight? Y N			
Sales Tax				
GRAND TOTAL				

Payment (circle)	Cash	Check	MC	VISA	AmEx	Wire
Credit Card # or Check #						
Security Code	Exp. Date:			CVV Code:		
Billing Address						

Cardmember acknowledges receipt of goods and/or services in the amount of the total shown hereon and agrees to perform the obligations set forth by cardmember's agreement with issuer.

Name on card (Print) _____
 Signature _____
 Date _____



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