

Pain Medicine 2017



4th International Conference on

PAIN MEDICINE

October 19-20, 2017 San Francisco, USA

Keynote Forum

Day 1

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Joseph P Leahy

Chiropractic Health & Sports Enhancement, USA

An approach to diagnosis and treatment of mild traumatic brain injury

Our understanding of MTBI has evolved to more appreciate the centrifugal force, or rotational acceleration as a key damaging force. We are also coming to understand that the physiological damage is perhaps the most important aspect. This is not to diminish the importance of looking at the physical insult, and anatomical changes, but rather to appreciate that the physiological function is of course of paramount importance. Advances in imaging, especially in Diffusion Tensor Imaging helped to visualize anatomical damage in the brain. Now we have developed a novel EEG method that is proving to be accurate and reliable. But more importantly, we now have a treatment that is demonstrably effective. Patients with recent history of MTBI, and also patients with very history of multiple MTBI's were seen. Symptoms ranged the full gamut, including inability to concentrate without pain, memory problems, headaches, fatigue and pain upon exertion, emotional disturbances, etc. A single point EEG was done with each patient for 20 minutes; the data was analyzed using a unique combination of nonlinear equations producing and LCI (concussive index). Treatment was provided with Light MD's LED light therapy unit for 20 or 40 minute sessions. Several different protocols were needed depending on the severity and how recent the MTBI was. Most patients felt noticeably better after the first treatment, and all patients were significantly improved, if not symptom free after 10 or fewer sessions.

Conclusion: The consistent results of the EEG test demonstrate the need for further, larger scale study. The treatment results are the most encouraging, with most patients recovering, demonstrating the need for a larger scale study with more diverse testing included.

Biography

Joseph P Leahy Graduated with honors in 1982 from Los Angeles College of Chiropractic. He serves as Lead Instructor for Active Release Techniques courses and is Medical Director for Light MD, LED light therapy device design and manufacture, principal researcher with focus on MTBI as well as the he is the inventor of a portable micro current unit. Presently he is the owner of C.H.A.S.E. clinic in Los Gatos, CA specializing in sports chiropractic and spine testing, diagnosis and rehabilitation, MTBI.

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Ernesto Delgado Cidranes

Advanced Pain Management Center, Spain

Invasive and non-invasive radiofrequency for the treatment of chronic pain

Biography

Ernesto Delgado Cidranes, MD, PhD is Spanish Anesthesiologist, Director, CEO, and Editorial Board Member of *Journal of Pain Management and Therapy*. He is also AIUM Member, Reviewer and Advisor of *Journal of Ultrasound in Medicine*, American Institute, USA; Chairman of Department of Anesthesia and Pain Medicine, Spanish University Health Ministry; Professor of Advanced Ultrasound and Founder at Advanced Pain Management Center Madrid. He has an integrative and interdisciplinary concept in the treatment of pain.

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Richard K Williams

LightMD & Applied BioPhotonics, USA

Advances in photobiomodulation therapy – a new paradigm in pain management

The advent of new generation medical-grade LED biophotonic devices for the clinical treatment of pain using photobiomodulation therapy (PBT) is discussed. Compared to present-day LED and laser phototherapies, the device's advanced technology and intuitive user interface enables a physician or pain therapist unparalleled control of treatment conditions to maximize PBT efficacy including average power control of LED brightness and temperature, sequencing various LED wavelengths for controlling light penetration depth and mix, treatment duration to control total energy dose, and pulse frequency control for improved tissue specificity. The importance of treatment frequency in LightMD case studies and the possible photochemical and photobiological mechanisms for observed pulse frequency dependence on pain and nerve inflammation is considered. In addition to advances in photonic control, a new manufacturing technology for 3D bendable "LightPads" is described, each comprising an array of over 200 high-brightness LEDs housed in non-porous, aseptic, hypoallergenic polymeric pads, designed to bend and fit snugly to a person's body contours to reduce optical refraction from epithelial tissue, maximize energy coupling, and enhance PBT efficacy. Compared to the small spot size of laser probes and LED wands, a set of six LightPads offers hands-free treatment of injured or painful tissue 300 times the area of conventional probes. The professional medical PBT device is FDA audited and approved in United States, Taiwan, Dubai, and the United Arab Emirates; CE and ISO-13485 medical safety rated, uses FDA-certified good manufacturing practices (GMP), and is IEC rated for photobiological safety (no glasses required). A sneak peek of a lower cost "prosumer" (professional-consumer) device will also be provided

Biography

Richard is a serial entrepreneur, technologist, author, speaker, and prolific inventor. Currently he is CEO, President, and Chief Technology Officer (CTO) of Applied BioPhotonics Ltd., a Hong Kong based medical-device design specifier and GMP-certified manufacturing company, and is CEO of LightMD Inc., a Silicon Valley based seller of photobiomodulation therapy (PBT) devices. In 1999, he founded Advanced Analogic Technologies, and as CEO-CTO developed the first LED backlight dimming and LED camera flash for smartphones, followed by dynamic LED backlighting for major brand HDTVs.

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Anthony Sarandrea

Clinic Marketers, USA

How to unleash the power of the internet for your pain practice

Many pain practices struggle to use the Internet to market their practice effectively and efficiently. No matter the size of the practice, just because a they have designed a comprehensive website or are running advertisements online does not mean the practice is reaching its target markets. Through targeted messaging with Search Engine Optimization on Google AdWords and various Social Media outlets, pain practices can better utilize marketing strategies. Track and record mailers and callers to discover what works best to increase your return on investment. I will reveal the top secrets and best loopholes I have learned after managing millions of dollars of online marketing campaigns for practices of every size. Cut the learning curve and find out exactly how every day practices are exploding their medical practices utilizing the power of the internet.

Biography

Anthony Sarandrea is an entrepreneur, keynote speaker, and philanthropist. He received a business management degree from Arizona State University and now runs a profitable portfolio of websites ranging from eCommerce to content blogs, without ever raising outside funds. His advertising agency currently manages \$10 million+ per year in ad spend. Anthony was recently recognized by Forbes as one of the "Top References for Marketing Trends in 2016", Inc Magazine as the top branding consultant in 2017, and is a frequent contributor to Entrepreneur Magazine for upcoming marketing trends. Anthony is a sought-after company advisor and consults for several Fortune 500 & Fortune 1000 companies on branding, sales, and direct marketing strategies. He also mentors and teaches in the entrepreneurship department at Arizona State University.

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Jerry I Jacobson

Institute of Theoretical Physics and Advanced Studies for Biophysical Research, USA

Restoration of nerve ultrastructure and recovery from motor neuropathy in mice by electromagnetic field

The effect of electromagnetic fields (EMFs) on the restoration of forelimb grip strength and radial nerve ultrastructure was studied in mice with motor neuropathy induced by the administration of neurotoxin, 0.62% 3,3'-iminodipropionitrile (IDPN), in drinking water for 9 1/2 weeks. Forelimb grip strength (lb) of mice as measured by a force gauge meter declined to 47% compared to the control group ($p < 0.004$). The IDPN treated group without any EMF exposure persisted to have a 56% decrease in grip strength and radial nerve electron micrographs showed axonal demyelination, mitochondria in an orthodox state of conformation, (nonfunctional) and uneven dispersion of neurofilaments and microtubules. In contrast, one IDPN treated group was treated with applied EMF (electromagnetic field) intensities and frequencies that were calculated on the basis of the mass of molecules vital to nerve function using $mc^2 = BvLq$ and $f = qB / 2\pi m$. During EMF exposure mice were held in a perforated Lucite box placed in a Resonator that generated the EMF between the centers of two 18" discs, 9" apart containing copper coils in Helmholtz configuration. EMF was applied twice weekly for 8 1/2 weeks that resulted in as much as 87% recovery ($p < 0.05$) of grip strength that was sustained after the termination of exposure at an 82% level until the 27th week of observation. The EMF exposed group also exhibited axonal remyelination, functional condensed state of mitochondria, and evenly dispersed neurofilaments and microtubules consistent with grip strength recovery. [These results are the first to demonstrate a biological effect of EMF in vivo on the restoration of subcellular structures required for nerve impulse conduction and metabolism in nerves and consequently a grip strength recovery from motor neuropathy, under controlled experimental conditions.] The studies were conducted at the Weill Medical College of Cornell University, and replicated at Fairleigh Dickinson University, School of Natural Sciences.

Biography

Professor Jerry I Jacobson is an eminent expert in the field of Bioelectromagnetics, having pioneered research utilizing physiologic Pico Tesla magnetic fields in the treatment of a diversity of conditions. His discovery of Jacobson Resonance yielded a new, non-invasive technology prototyped and characterized by NASA engineers at the John C. Stennis Space Center. As a world renowned medical physicist, he has lectured extensively, published more than 100 scientific articles in peer reviewed journals, and has invented 50 patents. He is currently the Chairman of the Institute of Theoretical Physics and Advanced Studies for Biophysical Research which has directed research at a dozen universities throughout the world for the past 20 years. Among his numerous biographical listings are: Who's Who in America, Who's Who in the World, Who's Who in Science and Engineering, and Who's Who in American Inventors. He is the Chief Science Officer for several biotech companies.

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