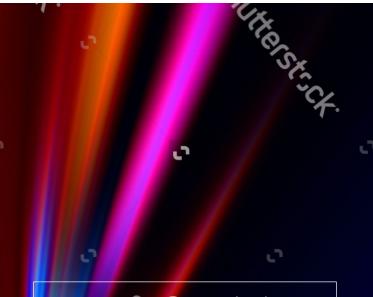
J.

J



LIGHT THERAPY: AN ALTERNATIVE TO PAIN MANAGEMENT



By Ann-Kristin Allen :: Photography by Kelsey Grudle

This past October we attended the 2016 World Golf Fitness Summit at New Orleans. The 2016 WGFS brings together the world's leaders in athletic performance to discuss the latest research and application of golf fitness, and an opportunity to interact face-to-face with those coaching, training and healing the world's best golfers. This is where we were introduced to LightMD.

LightMD is trusted by the Titleist Performance Institute as one of their premier vendors. It is a highly programmable system that allows access to the full spectrum of red through infrared light. This is important because different parts of the body skin, tissue, muscles, etc., respond best to different wavelengths, as proven by countless research. This is to reduce pain and recovery time as it reduces inflammation and increases cellular energy, tissue strength and circulation.

We have had a chance to incorporate this treatment into our regular practice of golf instruction and golf fitness, and the results at The Club have been impressive.



"I returned from my second ski trip this year with a very noticeable case of tendonitis in my left wrist (caused by repetitive pole plants). had a similar condition in my right elbow two years ago, also caused by skiing. Then, the pain persisted for at least nine months, and definitely affected my ability to play and practice golf throughout the spring, summer and fall. This time, AK recommended light therapy from LightMD. I had one 20 minute treatment. To my amazement, within a few days, I was 100% pain free." - Kemp Copeland

Light - A New Paradigm for a Healthy Life,

Based on over a decade of case studies and engineering by Richard K. Williams, CEO, LightMD developments, the ABP1003 Phototherapy System available in and Dan Schell, President and Inventor, LightMD the USA exclusively from LightMD represents the state-of-the-As we age, particularly if we engage in exercise or competitive art in medical-grade phototherapy. Each system comprises sports, our bodies invariably experience physiological stresses a touch-screen based "LightMachine" central controller and associated with being subjected to injury, disease, immune two sets of 3D-bendable flexible hypoallergenic polymeric distress and even normal hormonal changes. The result of this LightPads, with each of the six LightPads containing hundreds relentless cascade of misfortunes is reduced circulation and a of super-luminous (i.e. high-brightness) red and infrared LEDs. systemic decrease in tissue and organ oxygenation, in turn caus-In use, the snug fit offered by its bendable LightPads to the ing inflammation, muscle fatigue and tightness, decreased range human torso and appendages insures superior energy coupling of motion, localized tissue pain, a greater propensity for injuries into affected tissue with minimal unwanted reflections or scat-(primarily from hyper extensions or muscle cramps), and in many tering. Each LightPad is driven in a programmed sequence or cases the onerous onset of chronic pain invariably leading to "treatment" (typically lasting 20 minutes) comprising alternatdebilitating arthritis of muscles and joints. ing intervals of red and infrared light (to control penetration If, however, cells are regularly flooded with energy in the depth) pulsed at prescribed rates to maximize energy coupling form of photons of the right wavelengths, i.e. infrared and certo specific tissue types. Treatments, in turn, are organized into tain colors of visible light (such as red light), the non-ionizing sequences called "protocols" to insure pain, inflammation, and energy naturally absorbed by cells' organelles (especially mitoinfection are combatted systematically to speed recovery.

chondria) can stimulate cell regeneration, invoke tissue repair, release nitrous oxide (NO) to enhance blood flow through vasodilation, generate increased levels of ATP (adenosine triphosphate) to power cellular metabolism, and together suppress or eliminate pain. The science of repairing tissue or suppressing pain through the use of non-ionizing radiation (light) is known as photobiomodulation therapy (PBT), also commonly referred to as "phototherapy."

While many hardware platforms and commercial gadgets promise efficacious phototherapy treatments to suffering patients, the truth is the vast majority of phototherapy devices lack the power or the required degree of control and knowhow to insure light penetrates the body's epithelial layer and is absorbed, i.e. metabolized, by the underlying tissue targeted.



LightMD's Unique **Phototherapy System**

LEDs are driven at their maximum possible brightness to insure treatment efficacy yet to avoid burn risk and insure photobiological safety (a safety level lasers cannot guarantee). Moreover, based on a decade of exhaustive case studies, the importance of LED pulse frequency rates and the system's versatile control of these pulse rates cannot be overstated. For example, high frequency pulsed operation reduces pain by controlling signal transduction throughout the nervous system while lower frequencies are used to stimulate the release of nitrous oxide (NO) thereby improving vasodilation and tissue oxygenation.

As a class II device, the light therapy offered by LightMD is based on FDA audited and approved technology now authorized for use in the USA, in Taiwan, in Dubai, and across the

> United Arab Emirates (UAE) with more countries coming soon. In addition to its global medical, safety and GMP (good manufacturing practices) certifications, the device is also protected by numerous claims granted by the United States Patent & Trademark Office (US PTO) to its FDA approved manufacturing business partner Applied BioPhotonics Ltd. 🛞

> Ann-Kristin Allen is a TPI Certified Fitness Professional Level 3, a Certified Yoga for Golfers Level 2 and an Eldoa Certified Level 2, LightMD provider. She can be reached at akallen@cordilleraranch.com or 210.367.5942.