



The Company

LightStim is the largest US manufacturer of LED devices to estheticians, spas, dermatologists and plastic surgeons in the US. We design, engineer, manufacture (in the US), and market a broad range of LED light therapy products, with an industry leading 12 over-the-counter FDA Clearances for the treatment of esthetic and medical problems for both consumer and professional use.

LightStim's success can easily be attributed to the results our devices achieve using our unique LightStim Multiwave® Patented Technology.

Why is FDA Clearance of LightStim's LED Bed a disruptive technology?

On July 5th, 2016 LightStim received the 1st ever, over-the-counter FDA Clearance for an LED Bed. The Bed is Cleared by the FDA for temporary relief of muscle and joint pain, arthritic pain and stiffness (because it reduces inflammation throughout the entire body), muscle soreness and spasm, and increased blood flow, which is the bodies natural way of aiding the healing process by bringing oxygen and nutrients to the areas of pain.

Beyond that, the benefits of the 630nm, 660nm, 850-855nm and 940nm wavelengths and LightStim MultiWave® used in the LED Bed are many and are backed by numerous clinical studies. They include:

Two of the four wavelengths used in the Bed are the same that are in our FDA Cleared device for wrinkles and they build collagen and elastin to help reduce wrinkles and tighten the skin. This is accomplished with LED by feeding the cells the exact wavelengths of light, which they convert to ATP, (adenosine triphosphate) the fuel that the cell uses to "do its job".

Other wavelengths of the Bed release nitric oxide (NO) in the body. Nobel Prize winning NO was dubbed "the miracle molecule" because of its importance as a signaling molecule, and its many benefits to the body.

There are clinical studies behind everything we state here about nitric oxide and we have the ability to test one's nitric oxide levels before they do a treatment and afterwards and show that the Bed will bring levels up to an optimal level.

By the time we are 50-60 years of age we are (naturally) releasing only about 15-25% of the NO that we released when we were 20 years old. This is significant because this unreleased NO sits inside the mitochondria of over 250 different cell types in the body and prevents/reduces the production of ATP – the fuel that a cell needs in order to carry out its functions. This "back up" of 75-85% of the cells in our body producing less or no ATP not only causes a reduction in collagen and elastin and ages our skin, but much more importantly produces free radicals, which is a leading cause of degenerative diseases, inflammation, cancer, etc. This is the unfortunate "natural" aging process of the body. Now with LightStim LED Bed treatments we have the perfect trifecta to reverses this whole degenerative process, whereby the therapeutic light energy 1) releases the nitric oxide, 2) gives the cell the exact wavelengths of light which the cell converts to ATP, and 3) stops the process of creating free radicals.

NO (in clinical studies) is responsible for the reduction of heart attacks and strokes, and increased blood flow to the brain (which has led some experts to believe it may also help to prevent Alzheimer's and dementia). It also reduces lactic acid build up in muscles, which gives athletes more stamina and strength and reduced recovery time. Couple that with every cell in the body having a full tank of ATP to carry out its functions and that within one second of NO being released it signals every cell in the body to "do its job". Now think about these benefits to college and professional athletes. Athletes have been taking NO supplements for a number of years, but the best supplement on market only lasts 12 hours at most. The LightStim LED Bed has been tested to show that it not only increases depleted quantities of NO in the body to an optimal level, but that this increase can last for up to 6-7 days.

There is another interesting benefit for increasing one's available NO in the body. Viagra only works on 50-70% of the male population (depending on the prescription) because it works downstream of NO production. So about the time a man might need Viagra, his production of NO or total available quantity of it can be extremely depleted. This is easily addressed with LightStim LED Bed treatments. Additionally, it is generally agreed upon that Cialis does not make a user as "hard" as Viagra. Using the Erection Hardness Grading Scale and International Index of Erective Function a clinical study was conducted whereby NO supplements were given to men who use Cialis, and the results were a 2x grading improvement in hardness.

NO has also been shown to boost the immune system and to assist the immune system in fighting off bacteria, defending against tumors and birth defects, reducing inflammation, improving sleep quality, relieving fiber myalgia pain and improved gastric motility to name a few. Last but certainly not least, NO has been shown in clinical studies to regulate blood pressure and could possibly make hypertension a thing of the past.

NO has other benefits too numerous to mention here, but suffice it to say, it's easy to see why it was dubbed the "miracle molecule".

Most individuals that own the Bed report a calm energy unlike anything they've experienced for years.

Also most agree that there is a "conservative euphoria" that goes along with doing Bed treatments. A feeling like "today is going to be a good day" or "I feel like things are going to go well today". This is probably most attributable to having every cell in your body have a full tank of ATP.