

Study Information

Non-invasive No Drugs

This is an experimental study to see if light from PhotoMed's investigational device will help with certain conditions. Specific colors will be applied to various locations on the body for about 8 minutes per visit. The power is very low and most people cannot feel the light.

In this study, we will compare the effectiveness of different colors and treatment locations at reducing pain and improving function. We believe that optimal colors vary for different people and conditions.

Many conditions, such as complex regional pain syndrome (CRPS or RSD) and diabetic peripheral neuropathy (DPN), affect how the body regulates temperature in the hands or feet. We measure changes in skin temperature that may be used to guide the therapy. We want to determine if the changes predict relief. See Figure 2 (back).

For the most part, the treatments were developed through observation of skin temperature changes. Each time the investigator follows a pre-defined treatment protocol or personalizes a therapy, information is added to the database that will be used to improve treatment protocols.

Investigators are encouraged to collaborate to speed the process of finding the most effective treatment settings and locations.

Subject Information

Who is Eligible?

People with chronic pain or loss of function are invited to participate in this study. Some conditions, such as active cancer or HIV, may be disqualifying.

Eligibility is not restricted due to symptom severity, duration, number of surgeries, or current medications.

This study is not a replacement for your current therapies. You should continue to see your primary care doctors and specialists and take the medications you have been prescribed.

Potential Benefits and Risks

Your participation in this study may or may not benefit you. This experimental therapy has helped some people with severe pain that was not relieved by conventional therapies. Typically, the therapy will be discontinued if you have not seen improvement by your 4th visit.

Previous light therapy studies have shown that the technology is safe and easy to use. However, as with any experimental device, there is the potential that unknown risks exist.

Some patients have reported unmasking of pain or sensation previously hidden by severe neuropathic pain, drugs, neurostimulators, or diabetic numbness.

Cost and Scheduling an Appointment

Please contact the clinic for information.



Do you have

Complex Regional Pain Syndrome? (CRPS or RSD)

Study Location

Pain Specialties

138 E. Gore St

Orlando, FL 32806

407-650-0033

www.painspecialties.com

Richard L. Smith, M.D, investigator

Sponsored by



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What is light therapy?

Light therapy is used to prompt the body to repair damage associated with chronic pain, lost range-of-motion, wounds, and other symptoms.

Cells and nerves are sensitive to light in addition to chemical, electrical, and pressure stimulation. Studies of single nerves have demonstrated that certain colors tend to activate or inhibit nerves. Some colors can act as anti-inflammatory agents. See Figure 1b.

This study will be looking to see to what extent our light therapy can provide relief to people with different causes of pain.

Visible and infrared light are FDA approved to treat chronic pain by increasing local blood flow.

Light therapy and PhotoMed's innovations

Laser- and LED-based light therapy research has mostly been limited to the anti-inflammatory wavelengths (colors). See Figure 1a.

PhotoMed removes this research limitation by providing the entire visible spectrum. See Figure 1b.

In addition, the wavelength can be set to change during therapy to accommodate subtly different wavelength needs for different people and conditions.

Thermal imaging provides objective feedback to identify when patients respond to the light therapy. See Figure 2.

PhotoMed Offers More Wavelengths

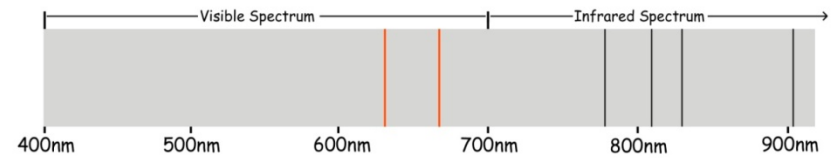


Figure 1a – Laser- and LED-based research relies on a few fixed wavelengths that cannot be changed during therapy.

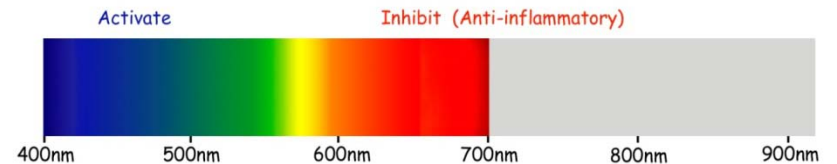


Figure 1b – PhotoMed's PDS 400[®] expands light therapy research to the entire visible spectrum. In addition, the wavelength can be set to change during therapy to accommodate subtly different wavelength needs for different people and conditions.

Skin Temperature Changes Provide Objective Feedback

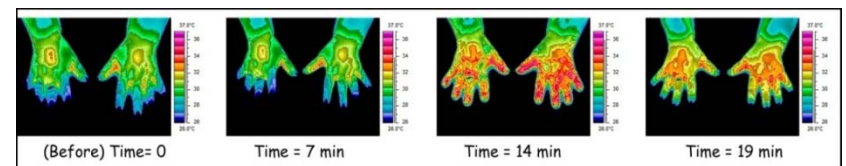


Figure 2 – Thermal images of a complex regional pain syndrome (CRPS or RSD) patient show the painfully cold (blue-green) hands and fingers warming (orange-red) during and after the treatment.

The next visit, the patient reported much less pain.