



L A S E R F A Q ' S

ANSWERED BY INDUSTRY PROFESSIONALS

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COMMON INDICATIONS

WHAT ARE THE MOST COMMON
INDICATIONS FOR LASER THERAPY?

ANSWERS

WHAT ARE THE MOST COMMON INDICATIONS FOR LASER THERAPY?

The most common MLS Laser Therapy indications are pain relief, intervertebral disc disease, degenerative joint disease, arthritic conditions, muscular/skeletal system trauma, and inflammatory conditions.

MLS Laser Therapy Successfully Treats Pain and Inflammation associated with:

- **Achilles Tendonitis**
- **Wound Healing**
- **Hip Conditions**
- **Plantar Fasciitis**
- **Sprains & Strains**
- **Rotary Tears**
- **Neuropathy**
- **Work & Sports Injuries**
- **Neck & Back Injuries**
- **Neuroma**
- **Disc Degeneration**
- **Sciatica**
- **Arthritis & Bursitis**
- **Knee Conditions**
- **Tennis/Golf Elbow**
- **Postsurgical Recovery**
- **Carpal Tunnel**
- **and more...**

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WAVELENGTHS

WHAT WAVELENGTHS ARE USED IN
THE MLS LASER THERAPY?

ANSWERS

WHAT WAVELENGTHS ARE USED IN THE MLS LASER THERAPY?

MLS Laser Therapy uses both the 808nm and 905nm wavelengths simultaneously. The 808nm wavelength is delivered using continuous emission while the 905nm wavelength is delivered using pulsed emission.

WHY ARE TWO WAVELENGTHS USED?

MLS Laser Therapy uses two wavelengths to overcome the limits of traditional Laser Therapy. Traditional Laser therapy does not deliver both wavelengths in a reinforcing and synchronized fashion. Continuous laser emissions act fast on inflammation, stimulating blood and lymphatic circulation and inducing fast re-absorption of fluid build ups; however they only have a secondary effect on pain, which is diminished after reducing the inflammatory process. Pulsed laser emissions, on the other hand, have a practically immediate effect on pain, since they are able to induce analgesia, interfering with the very transmission of the pain impulse to the higher brain centers, but they are less effective at treating inflammation and edema.

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FDA APPROVAL

IS MLS LASER THERAPY FDA APPROVED?

ANSWERS

IS MLS LASER THERAPY FDA APPROVED?

The patented MLS pulse was developed as a result of nearly three decades of scientific research that studied the biological and therapeutic effects of different emission components and methods. The departments of biology at both the University of Turin (Italy) and the University of Padova (Brazil), as well as the Department of Anatomy and the Orthopedic Clinic at the University of Padova have studied and verified the remarkable effectiveness of MLS Laser Therapy.

FDA CLEARANCE

'Mphi Family' Diode Lasers (Mphi, Mphi5, Mphi Orange)

Cleared via Section 510(k) on November 9, 2011, Number K11901. Conclusion of, "The ASA 'Mphi Family' Diode Laser is a safe and effective device for the indications specified."

Indications For Use:

"The ASA 'Mphi Family' Diode Laser is intended to provide topical heating for the purpose of elevating tissue temperature for the temporary relief of muscle and joint pain and stiffness, arthritis pain, or muscle spasm, the temporary increase in local blood circulation and/or promoting relaxation of muscle."

'MLS Family' Diode Lasers (MLS Mix5, MLS M1, MLS M6)

Cleared via Section 510(k) on August 26, 2005, Number K051922. Conclusion of, "The 'MLSFAMILY' Diode Laser is a safe and effective device for the indications specified."

Indications For Use:

“The ‘MLS Family’ Diode Laser is intended to provide topical heating for the purpose of elevating tissue temperature for the temporary relief of muscle and joint pain and stiffness, arthritis pain, or muscle spasm, the temporary increase in local blood circulation and/or promoting relaxation of muscle.”

Patent

MLS Laser Therapy is patented:

United States Patent, No. US 8,251,982 B2

Date of Patent: August 28, 2012

Abstract:

“Apparatuses and methods for applying laser energy for therapeutic purposes (e.g., relief of pain and/or inflammation in tissues) are disclosed. The synchronization of two spatially overlapping energy forms having closely positioned emission axes and particular emission modalities can in many cases provide strengthened or even synergistic effects in the alleviation or treatment of multiple of acute and/or chronic conditions (e.g., pain and inflammation) afflicting a given tissue. The laser energy forms are characterized in terms of their power levels, activation times, activation periods, pulse durations, pulse periods, wavelengths, and other identified characteristics.

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A D V A N T A G E S

WHAT ARE THE BENEFITS OF USING
MLS LASER THERAPY OVER OTHER
CLASS IV LASERS?

ANSWERS

WHAT ARE THE BENEFITS OF USING MLS LASER THERAPY OVER OTHER CLASS IV LASERS?

A common question from many individuals when researching which laser is right for them and their practice, is "what's the difference?". So, what exactly is the difference between a class IV or IIIB lasers and the MLS Laser Technology?

Class IIIB Lasers:

These lasers use very low power, are limited to surface biostimulation, and often require many treatment sessions and long treatment times.

Results are only achieved at the end of the treatment cycle, and results are limited because of the use of only one or two wavelengths that are not synchronized.

Class IV Lasers:

These lasers were developed with the expectation that greater power corresponded to better efficiency. On the contrary, unless suitably controlled, high power can thermally damage the treated tissue. The foundation of Class IV laser therapy is based on the delivery of a therapeutic dose of joules to a large area of target tissue, reducing variability in outcomes.

MLS Laser Therapy:

MLS Laser Therapy is a patented emission system created to achieve an efficient and simultaneous effect on pain, contracture, inflammation, and edema within a short period of time.

The patented control system that generates the MLS pulse synchronizes the emissions to achieve optimum results. Due to this characteristic synchronization, the various therapeutic effects not only take place at the same time, but reciprocally reinforce each other, without the risk of thermal damage.

Multiwave Locked System (MLS) is a unique combination and synchronization of continuous and pulsed emissions that characterizes MLS and distinguishes it from other Class IV lasers. MLS Laser Therapy is quickly becoming the standard of care in alleviating both acute and chronic pain. This patented, FDA-cleared technology has an 85% – 90% efficacy rate in relieving pain and inflammation, eliminates risk from surgery and prescription pain killers, has no negative side effects, and restores patients' lives.

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L A S E R T H E R A P Y O U T L I N E

WHAT EXACTLY IS LASER THERAPY??

ANSWERS

WHAT EXACTLY IS LASER THERAPY?

There are many types of lasers. Each laser has different characteristics which produce a different effect. These characteristics include:

Energy: Measured in joules.

Time: Defined as the duration of irradiance of target tissue and is measured in seconds. It is also known as Impulse Duration or called “impulse width”.

Wavelength: Penetration depth is directed by the laser emission wavelength and the type of tissue (chromophores).

Frequency: Defined as the number of impulses emitted during the unit of time (1 second) and should reflect the condition treated.

Power: The rate at which energy is delivered and is measured in watts.

Fluence: Energy Density or Dose.

Irradiance: Also known as power density, is power delivered per unit area

Emission Mode: Continuous Wave (CW) or Pulsed Wave (PW)

Impulse Duration: Duration of laser emission, also called “impulse width”.

ANSWERS

WHAT EXACTLY IS LASER THERAPY?

Laser therapy uses light to favor and accelerate the body's natural healing processes. The laser beam is moved over the skin so that the light energy (photons) penetrates the tissue where it interacts with various molecules (chromophores) that cause different biological effects. It produces a photochemical, photothermal and photomechanical effect.



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SIDE EFFECTS

WHAT ARE THE SIDE EFFECTS MLS LASER THERAPY?

ANSWERS

WHAT ARE THE SIDE EFFECTS MLS LASER THERAPY?

In the current economic climate, physicians are facing significant pressure to find new revenue streams. Reimbursements from insurers – the primary source of income for many practices – are declining sharply as a result of political reforms. At the same time, market forces such as increased competition and patient consumerism are adding to the pressure. In this environment, practice owners have limited options for strengthening their financial position. MLS Laser Therapy can help.

NO PAIN. ALL GAIN.

MLS Laser Therapy allows physicians to leverage technology to provide higher quality patient care, while attracting new clients, generating additional revenue, and ultimately improving businesses' bottom line.

NO PAIN - CLINICAL BENEFITS

MLS Laser Therapy is quickly becoming the standard of care in alleviating both acute and

chronic pain. This patented, FDA-cleared technology has an 85% – 90% efficacy rate in relieving pain and inflammation, eliminates risk from surgery and prescription pain killers, has no negative side effects, and restores patients' lives.

While lasers are commonly known for their heat components or surgical cutting purposes, our patented MLS technology ensures there is no thermal tissue damage due to our unique wavelength synchronization.. There may be a slight warming sensation at the treatment site, which is normal and an indication that the inflammation is being relieved and that the body is responding properly.

Ronald Gardner, MD, of Gardner Orthopedics in Fort Meyers, FL noted that MLS Laser Therapy is a “non-medicinal, zero risk, effective, and painless way to treat patients. And when the pain goes away, it stays gone, so there’s nothing else to do.”





DEVELOPMENT

HOW WAS MLS LASER THERAPY DEVELOPED?

ANSWERS

HOW WAS MLS LASER THERAPY DEVELOPED?

History:

MLS Laser Therapy was created with the aim of obtaining an efficient and simultaneous action on pain, contracture, inflammation and oedema, exceeding the limits of traditional LLLT (low power or class III lasers) and HP (high power or class IV lasers) laser therapy.

LLLT, in fact, applies very low power and, given that the biological processes generated by laser-tissue interaction are prevalently of a photochemical type, they are limited to surface biostimulation. The application of LLLT often implies long treatment times, it needs more sessions and the therapy results are felt only at the end of the treatment cycle.

From the start of the '90s many producers followed the fashion of high power emission, thinking mistakenly that greater power corresponded to better efficiency. On the

contrary, unless suitably controlled, high power can thermally damage the treated tissues. It follows that the majority of CW HP therapy lasers cannot work at the maximum power declared by the manufacturer without causing damage.

ASA, established in 1983, is a world leader in the research, design, production and distribution of medical apparatus designed to listen to, interpret and solidify the requirements of professionals and patients.

ASA has exceeded the limits of traditional low power laser therapy and the fashion of high power emission because of its insight, which is supported and validated by careful scientific research that includes:

Analysis of all the medical literature available.
Study of the biological action and efficiency of different wavelengths and different therapy doses (1-60 J/cm²). Comparison studies between different emission modes: continuous, pulsed, CW-PW combined, and CPW synchronized.
Comparison studies between different application modes: contact, fixed pointing, and scanning.

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HOT VS COLD LASERS

WHAT IS THE DIFFERENCE BETWEEN HOT
& COLD LASERS AND WHERE DOES MLS
FIT IN THE MIX??

ANSWERS

WHAT IS THE DIFFERENCE BETWEEN HOT & COLD LASERS AND WHERE DOES MLS FIT IN THE MIX??

LOW LEVEL LASER THERAPY (LLLT) CLASS 3B (“COLD LASER”):

While LLLT delivers some benefits of healing such as inflammation reduction, surface biostimulation, and little risk of thermal damage, it has little immediate pain reduction and patients usually have to wait until all treatments are complete to start feeling relief (if they do at all).

CLASS IV LASERS (HIGH POWERED “HOT”):

These lasers tend to allow treatment of a larger area in a smaller amount of time with the same benefits (depending on wavelength and technology used) as LLLT. However there are risks involved with thermal damage from the high power lasers.

MULTIWAVE LOCKED SYSTEM (MLS)

is a unique combination and synchronization of continuous and pulsed emissions that characterizes MLS and distinguishes it from other Class IV lasers. MLS Laser Therapy is quickly becoming the standard of care in alleviating both

acute and chronic pain. This patented, FDA-cleared technology has an 85% – 90% efficacy rate in relieving pain and inflammation, eliminates risk from surgery and prescription pain killers, has no negative side effects, and restores patients' lives so they may return to regular activities faster.

CLICK BELOW TO READ THE FULL WHITE PAPER ON LASER COMPARISONS:

[Download White Paper Now](#)



INDUSTRY OPINIONS

OPINIONS OF YOUR COLLEGES!

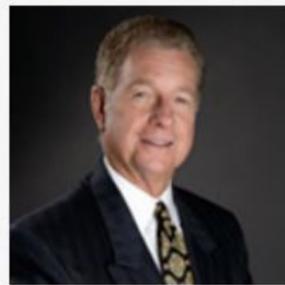
ANSWERS

WHAT ARE OPINIONS OF MLS FROM YOUR COLLEGES??



"If we can avoid a medication, have a laser treatment that's non-invasive, no side effects, very limited contraindications ... then why not try when the results we've been getting are 90% plus?"

Mark Kwartowitz, DO – Center for Orthopedic Surgery, Sports Medicine and Physical Therapy



"Without a doubt, the MLS laser has been transformational in our approach to diabetic polyneuropathy and related nerve issues ... The traditional treatment of medicine and surgery has now been enhanced with an alternative that is pain-free, easy to use for both the patient and the doctor, and is devoid of side effects."

Richard P. Jacoby, DPM – Valley Foot Surgeons & Laser Center



"What we're finding is that 90% of our patients are achieving almost 90% relief of their symptoms, which is unheard of. It is the very latest in medical technology, and we are proud to offer our patients something no one else can."

Ronald S. Lederman, MD – Center for Orthopedic Surgery, Sports Medicine & Physical Therapy



"It's benefitted our patients because it requires less time for the healing process. And to me, that's what it's all about: getting them better as fast as possible and having confidence as a doctor that you'll improve their quality of life. I had one patient who had five failed back surgeries, and now he looks like he never had pain."

Andy Barlow, DC, DACNB, FACFN – Chiropractic Neurology Center of Tupelo

[Watch Testimonial Video Here!](#)

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CLINICAL BENEFITS

WHAT ARE THE CLINICAL BENEFITS OF
MLS LASER THERAPY??

ANSWERS

WHAT ARE THE CLINICAL BENEFITS OF MLS LASER THERAPY?

The most common MLS Laser Therapy indications are pain relief, intervertebral disc disease, degenerative joint disease, arthritic conditions, muscular/skeletal system trauma, and inflammatory conditions. Listed below is a list of the ten most common benefits associated with MLS Laser Therapy:

- **Anti-Inflammatory:**

- MLS® Laser Therapy has an anti-edema effect as it causes vasodilation, but also because it activates the lymphatic drainage system which drains swollen areas. As a result, there is a reduction in swelling caused by bruising or inflammation.

- **Analgesic:**

MLS® Laser Therapy has a beneficial effect on nerve cells. It blocks pain transmitted by these cells to the brain which decreases nerve sensitivity. Also, due to the decreased

inflammation, there is less edema and less pain. Another pain blocking mechanism involves the production of high levels of pain killing chemicals such as endorphins and enkephalin from the brain and adrenal gland.

- **Accelerated Tissue Repair & Cell Growth:**

- Photons of light from lasers penetrate deeply into tissue and accelerate cellular reproduction and growth. The laser light increases the energy available to the cell so that the cell can take on nutrients faster and get rid of waste products. As a result of exposure to laser light, damaged cells are repaired faster.

- **Improved Vascular Activity:**

Laser light will significantly increase the formation of new capillaries in damaged tissue which speeds up the healing process, closes wounds quickly and reduces scar tissue. Additional benefits include acceleration of angiogenesis, which causes temporary vasodilation and increase in the diameter of blood vessels.

- **Increase Metabolic Activity:**

MLS® Laser Therapy creates higher outputs of specific enzymes, greater oxygen and food particle loads for blood cells.

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FINANCIAL BENEFITS

WHAT CAN MLS DO FINANCIALLY FOR
YOUR PRACTICE??

ANSWERS

WHAT CAN MLS DO FINANCIALLY FOR YOUR PRACTICE??

So, what are the most common conditions associated with MLS Laser Therapy?

- **Plantar Fasciitis**
- **Neuromas**
- **Neuropathies**
- **Arthritis**
- **Sports injuries**
- **Tendon & ligament injuries**
- **Back & joint pain**
- **Muscle sprains & strains**
- **Tendonitis**
- **Wounds**
- **Post-surgical swelling**
- **Disc disease**

“And to me, that’s what it’s all about: getting them better as fast as possible and having confidence as a doctor that you’ll improve their quality of life. I had one patient who had five failed back surgeries, and now he looks like he never had pain.”

Andy Barlow, DC, DACNB, FACFN

And what are the "All Gain" financial benefits that practices report seeing?

- **Combating declining reimbursements and generating revenue with a cash-based modality**
- **Rapid return on investment**
- **Accelerating patient recoveries**
- **Differentiating their practice**
- **Increasing patient satisfaction and referrals**



THANKS FOR READING

For more information about MLS Laser Therapy, click below or simply give us a call at 800-889-4184 to schedule your complimentary in-office laser demonstration.

Request More Information