

Better Science. Better Outcomes.

As a Global Leader in Laser Therapy for Pain Management, Sports Performance and Rehab, Multi Radiance Medical's mission is to develop new applications and technologies that will address unmet needs in the medical community.

Our Commitment to research and education has allowed us to optimize our technology, validate our methodology and create predictable and reproducible patient outcomes.

We will support, develop and nurture clinicians, their practices and patients, our researchers and employees, as well as the communities in which we serve.





**Multi Radiance
Medical®**
Laser Longevity

Corporate & Clinical Capabilities

- Non-Invasive Pain Relief & Faster Recovery
- Enhance Sports Performance
- Fewer Injuries and Reduction of Muscle Fatigue
- Clinically Proven and Safe
- Portable and Approved for Patient Use
- Opioid-Free Pain Relief

About The Company

- Headquarters in Solon, Ohio
- Products Sold in U.S. since 2006
- Leader in Laser Therapy field
- Global Presence:
 - FDA
 - Health Canada
 - CE (Europe)
 - TGA (Australia)





30 Research Projects

 **Multi Radiance
Medical®**
Laser Longevity



**Multi Radiance
Medical®**
Laser Longevity

The Pillars Paper

Validating Multi Radiance Laser Technology

A Scientific Monograph

The Pillars Paper

- Mechanism of Action Validation of Multi Radiance Lasers
- Biphasic Dose Response and Validation
- Dose Validation of Inflammation Marker Reduction
- Dose Validation for Modulation of Pain



The Comparative Pillars Paper

Documenting the Superiority of Multi Radiance Laser Technology

Comparative Pillars Paper*

- Comparison of 3 commercially available devices
- MRM Technology has a favorable Thermal Time Profile
- MRM Technology has a favorable Depth of Penetration Time Profile
- MRM Technology delivers **More Light** to Target tissue with **Less Heat** to the skin

* data on file



**Multi Radiance
Medical®**
Laser Longevity

Multi Radiance Medical Super Pulsed Laser Therapy

INTRODUCTION

This book presents a collection of summaries of scientific papers on safety and effectiveness of Multi Radiance Medical's (MRM) Super-Pulsed Laser Therapy in different fields of application. The papers report the outcomes of research coordinated by MRM Research Division and carried out in numerous clinical and research centers, both public and private.

Multi Radiance Medical's Super Pulsed Laser Technology is in the safest classification of lasers and its efficacy has been validated in vitro, in vivo, in controlled laboratory experiments and in clinical practice. A Scientific Monograph written in conjunction with Laser Therapy University confirms this to be not only statistically significant, but clinically significant technology. It also raises the bar in the industry for evidence-based research to translational research.

Multi Radiance Medical is also currently involved with over 30 Clinical Studies Worldwide. It is our mission to investigate and validate the clinical skills necessary to achieve the best possible outcomes for thousands of professionals each month and thousands of patients who choose Multi Radiance Medical's Super Pulsed Laser Therapy for both customer and client satisfaction. ("therapeutic").

CASCADING ENERGY EFFECT™
Multi Radiance Medical uses three clinically proven wavelengths: 660 nm, 875 nm and 905 nm to cover the entire spectrum of the therapeutic window of light for deeper penetration and enhanced absorption of light.

Our sophisticated software algorithm synergizes multiple wavelengths, creating a cascading effect: 660 nm absorbed by superficial tissue clears the way for infrared 875 nm to penetrate deeper and eliminate cellular interference, which allows infrared 905 nm super pulsed laser to go even deeper.

Multi Radiance Medical's proprietary multi-source technology successfully manipulates the interaction between light, laser and magnetic energy fields to achieve the desired penetration in the target tissue area.

Multi Radiance Medical **REVELATIONS** A COMPENDIUM OF RESEARCH FROM MULTI RADIANCE MEDICAL



Revelations:

A compendium of research from Multi Radiance Medical

- 24 peer reviewed published studies.
- 13 more studies in preparation, or submission process



Research Abstracts
Case Study Abstracts

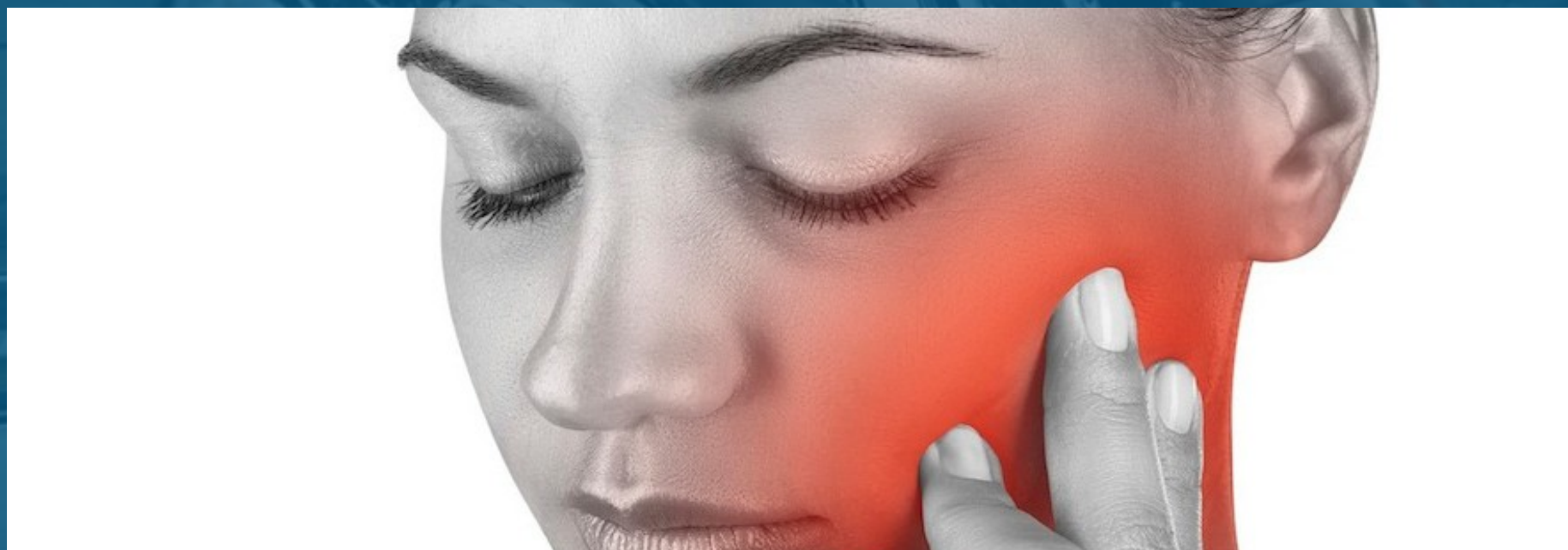
Global Leader in Rehab/Pain Management Laser Technology



87% decrease in pain in fibromyalgia patients



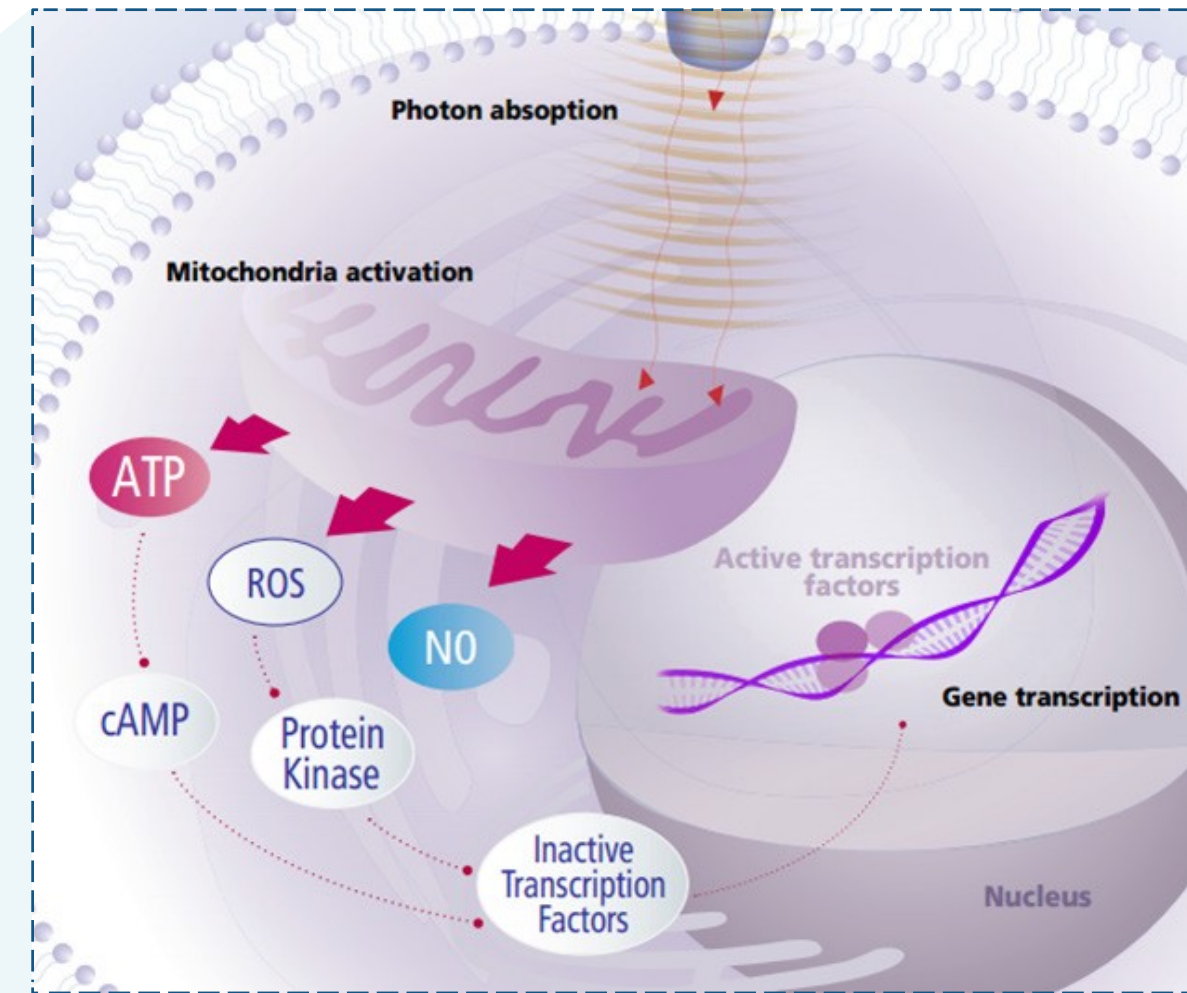
87% decrease in chronic neck & shoulder pain w/ only 6 treatments



70% immediate pain relief w/ a single treatment



MRM laser + exercise lead to 23% decrease in pain & 16% improvement in function compared to exercise alone.



Low Level Laser Therapy: How it Works

- Generates ATP
- Dissociates Nitric Oxide, creates Vasodilation & improves blood flow
- Creates small amount of reactive oxygen species to reduce oxidative stress



Exclusive Technology

- Super Pulsed Laser
- Cascade Effect of Multiple Radiances
- Laser Stim with TARGET
- Safe to use without medical supervision

Exclusive Technology: Cascade Energy Effect

Wavelength is the primary determination of depth of penetration.

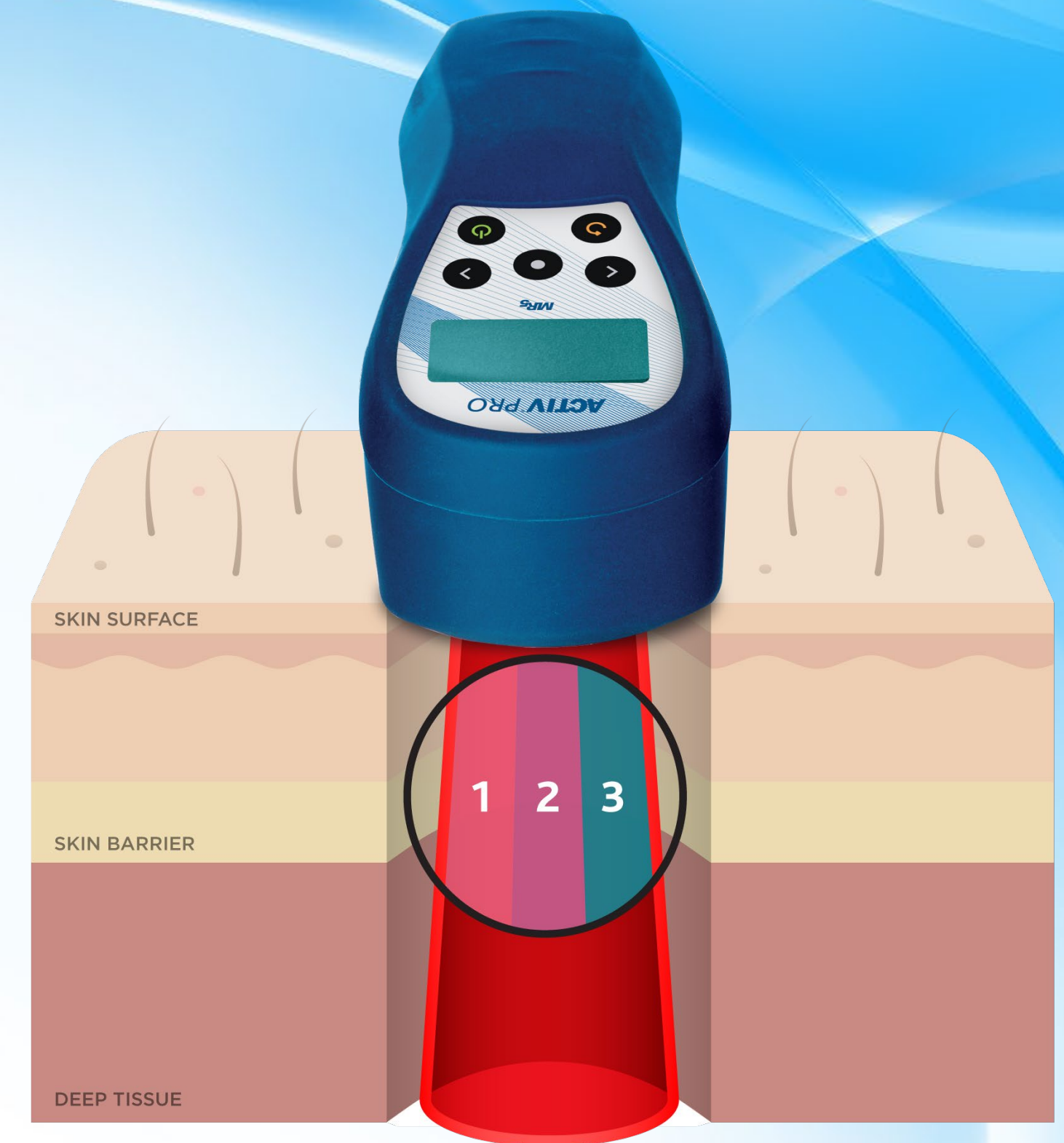
Multiple wavelengths produce multiple peak activation time profiles vs continuous wave lasers that can only produce 1.

Multi Radiance Medical uses three clinically proven wavelengths with optimal tissue saturation:

- 660nm LED Red Light
- 875nm Infrared Broadband
- 905nm GaAs Super Pulsed Laser

Magnetic Field creates synergy between laser and LED's, thereby increasing photon absorption at the cellular level.

As confirmed by Leal, et al when multiple wavelengths are synchronized, the depth of penetration is increased by 100% when compared to each wavelength alone.



:60

500 mW

200 mW

133 mW

MR4

980 nm
(Class IV)

808 nm
(Class III B)

905/875/660 nm
(Super Pulsed)

INITIAL DOSE

30 J

INITIAL DOSE

12 J

INITIAL DOSE

8 J

97.5%

29.3 J

0.7 J

2.5%

80%

9.6 J

2.4 J

20%

57%

4.6 J

3.4 J

43%

 **Multi Radiance
Medical®**
Laser Longevity

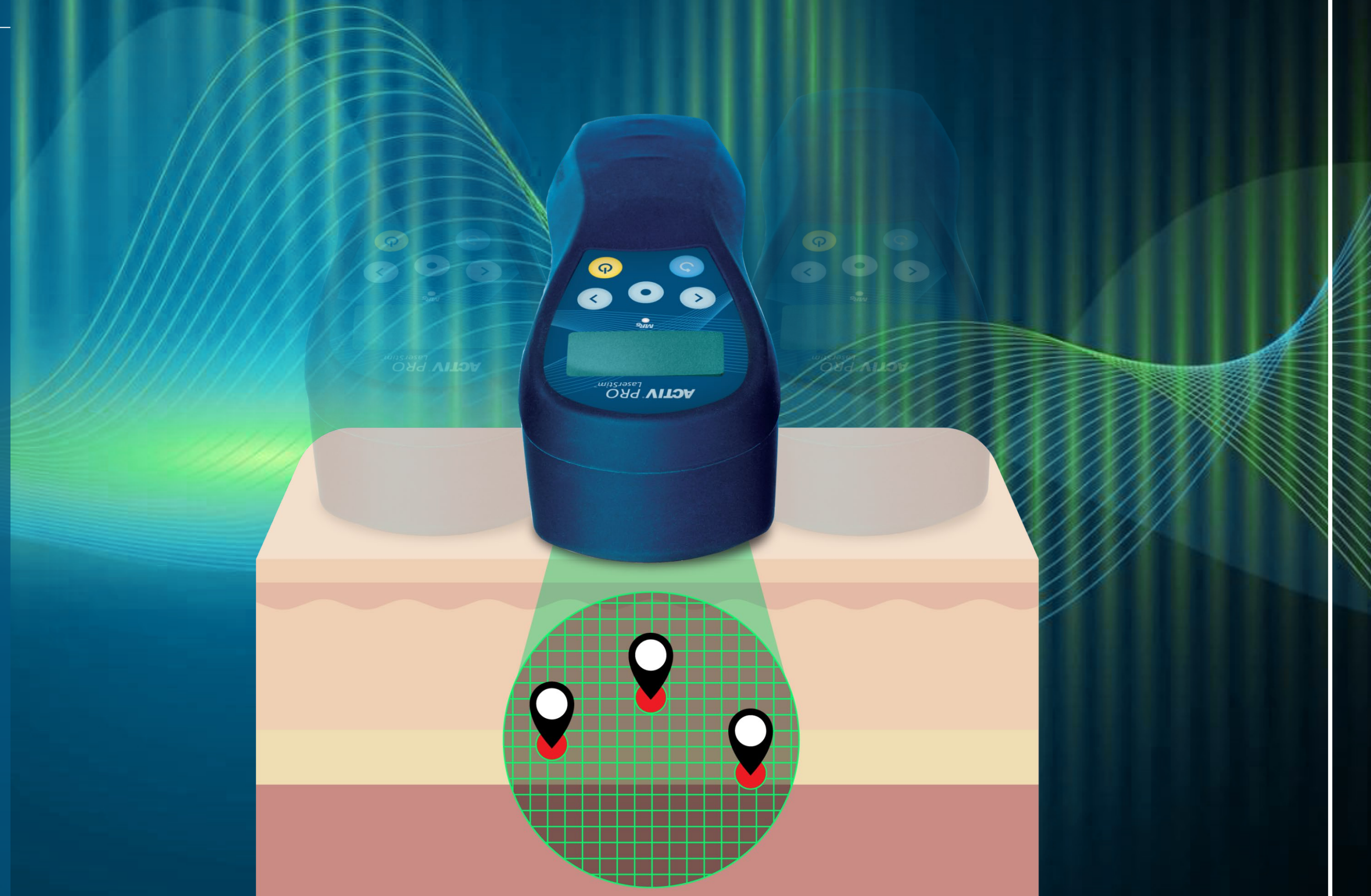
Low Level Laser Therapy: How it Works

- *Red and/or Infrared Photons relieve Pain & Accelerates Recovery*
- *Inhibits Biological processes in High Doses*
- *Stimulates Biological processes in Low Doses.*

Exclusive Technology: Electrical Stimulation

The LaserStim™ is the first and only FDA-cleared device to combine neuroadaptive electrical stimulation and laser in a single emitter, which allows clinicians to quickly locate and automatically deliver the appropriate energy dose to the affected areas.

The LaserStim's™ Treatment Area Recognition and Guidance Enhanced Technology™ (TARGET) provides an interactive neural stimulation by constantly measuring electroconductivity of treated tissue.





Multi Radiance
Medical®
Laser Longevity

Sports Performance Research

- Performance and Recovery
- Strength
- Endurance
- Comparative Studies
- Field Studies

***Global leader in sports
laser therapy technology***

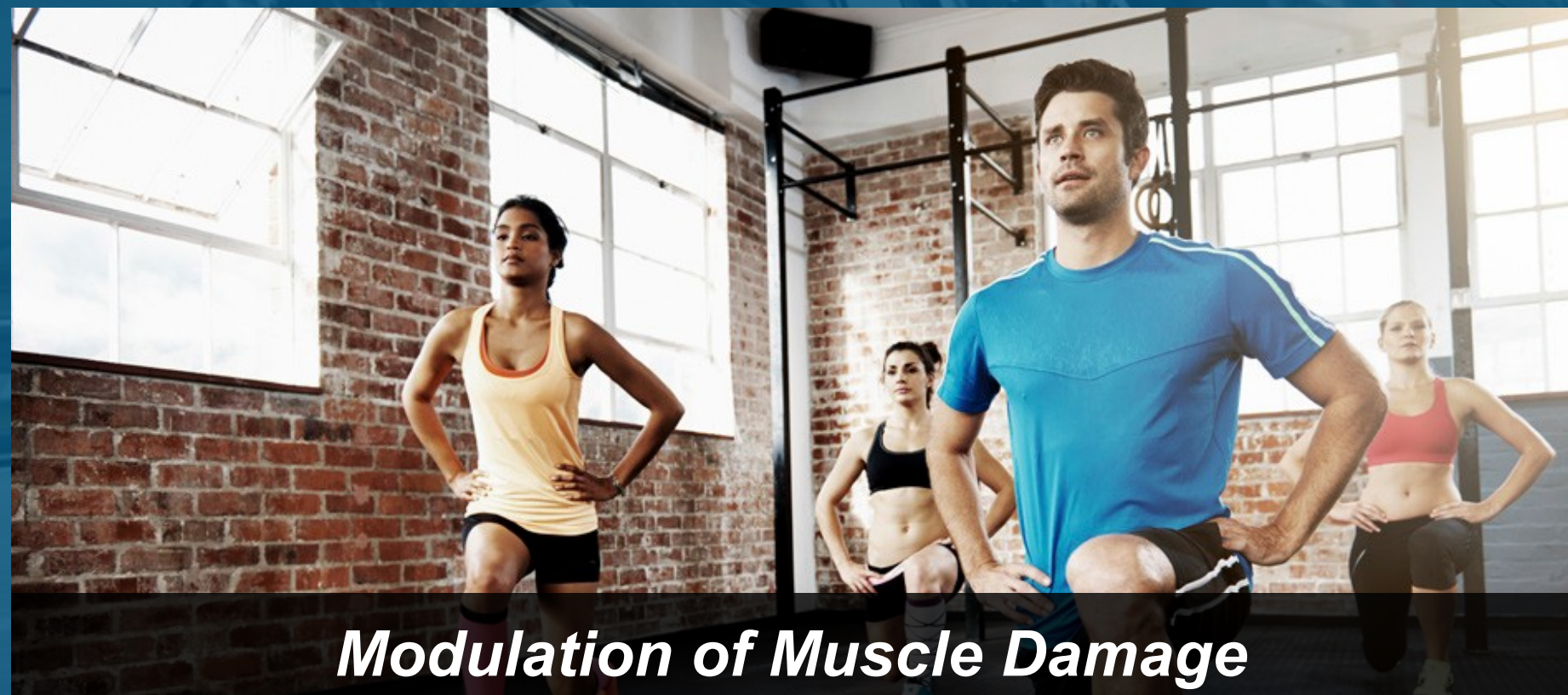
 **Multi Radiance
Medical®**
Laser Longevity



35.7% Increase in Performance



300% Faster Recovery



Modulation of Muscle Damage



3x Faster Gains & 100% Improvement in Strength

Global Leader in Sports Laser Technology



USA National Team | Canadian National Team | French National Team | Russian National Team | Super Bowl Champions | World Series Champions | Stanley Cup Champions | NBA Finals Champions



Brooklyn, Chicago, Cleveland, Dallas, Los Angeles, Memphis, Orlando, San Antonio, Providence College, University of Kentucky



Atlanta, Chicago, Denver, Detroit, Jacksonville, Minnesota, Air Force, Army, Colorado State, Georgia Tech, Michigan State University, Marshall, Navy, Rice University, Saskatchewan, Stanford University, University of Arizona, University of Colorado, University of Georgia, University of Iowa, University of Miami, University of Michigan, University of Notre Dame, University of Oregon, University of South Carolina, University of Wisconsin, University of Wyoming



Colorado, Columbus, Dallas, Kansas City, New England, New York, Philadelphia, Salt Lake City, Washington D.C., French National Soccer Team, National Soccer Team



Anaheim, Calgary, Chicago, Colorado, Detroit, Los Angeles, Montreal, Nashville, New Jersey, New York, Ontario, Ottawa, Philadelphia, Portland, Providence, San Jose, Syracuse, St. Louis, Tampa Bay, Toronto, Worcester, CSKA Russian Hockey Team, University of Michigan



Chicago, Cleveland, Colorado, Cincinnati, Kansas City, Minnesota, Toronto, New York





Sports Performance Leaders Use Multi Radiance Lasers

"The MR4 laser has become an integral tool in the maintenance and rehabilitation of our players. We have seen positive results for our players for their preparation, performance and recovery before and during competition. Because of these optimal results, Multi Radiance Medical laser is 'hands down' our go to modality."



Nick Kenney

Head Athletic Trainer, Kansas City Royals
2015 World Champions
MLB Top Athletic Trainer (2011 & 2013)



Sports Performance Leaders Use Multi Radiance Lasers

“MR4 lasers are now my go-to modalities for addressing lower extremity injuries that are slow to heal. The devices are typically used on all athletes in the facility, but I always send the portable MR4 ACTIV with any athlete who is traveling or heading to an event. We have seen great results.”



Alberto Salazar

Head Coach, Nike Oregon Project
NYC Marathon Winner (1980-1982)
Boston Marathon Winner (1982)



Sports Performance Leaders Use Multi Radiance Lasers

"I train doctors from all over the world in the A.M.I.T. method and many of them have purchased Multi Radiance Laser systems with the same amazing results. Together, the A.M.I.T. method and MR4 Laser system have taken sports chiropractic to an entirely different level in effectiveness. You have nothing to lose and everything to gain by trying the system in you clinic."



Craig Buhler
Former Team Doctor,
Utah Jazz, NBA

Sports Performance Leaders Use Multi Radiance Lasers



"The Multi Radiance Laser has been a primary device in our training room as well as on the road when we travel. We are highly selective as to what we use and what we are willing to invest our time and money in. We will not be without the Multi Radiance Laser System."



Chet North
Director of Sports Medicine
Sporting K.C., MLS



Sports Performance Leaders Use Multi Radiance Lasers

"The Game Day laser is easy to use, and can be used anywhere. It's one of the greatest technologies I've seen in my 20 years of practice."



Sol Cogan
Former Team Chiropractor
Detroit Lions, NFL

Comprehensive Product Line: Cordless / Portable Super Pulsed Lasers

 Multi Radiance
Medical®
Laser Longevity



MR5 ACTIV PRO LaserShower



**MR5 ACTIV PRO (50W) Laser &
MR5 ACTIV PRO LaserStim (50W)**

Comprehensive Product Line: Super Pulsed Lasers

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Medical®
Laser Longevity



MR4 Ultra Laser Package



MR4 ACTIV (25W) Laser



Game Day Laser (15W) Laser



Pain Away Laser
For sale or rental to your patients

Comprehensive Product Line: Cordless / Portable

 Multi Radiance
Medical®
Laser Longevity



Anytime...Anywhere
Treat on the field or in-clinic



Personal Treatments-OTC use
Have your athlete take a laser home



Broad variety of applications



Hands-Free Treatments
Handle multiple athletes at once



Thank you for your
interest in Multi Radiance...

Are you ready to join our team?

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