



## Introducing ThermoWave Therapy™ with Breakthrough Molecular Healing What You Need to Know About this Breakthrough Technology

Taking care of and defending animal life is the primary call of veterinary general practitioners and specialists – and many people are willing to invest large sums of money to ensure this happens. The reason is two-fold: - for some it is the financial value of protecting animal life and for others it is the emotional connection with it. As such, medical technology is of constant interest to veterinary practitioners. Although there have been many breakthroughs in veterinary medicine in the last ten years (including stem cell therapy, laparoscopy, animal acupuncture, prosthetics, breed testing etc.) one of the most established of these has been Laser Treatment. Yet it, too, is not without its challenges.

*“I have never seen performance to equal that of your equipment in terms of deep penetration and localization of electromagnetic heating.”*

Director of Hyperthermia Physics and Engineering Lab  
Duke University Medical Center

### Other treatments have value – yes, but . . .

**Therapeutic laser treatment**, while very popular for animal rehabilitation, has many challenges. Frequent weekly treatments for 8-12 weeks are necessary to show improvement. When treatment frequency is reduced, the symptoms return because the therapy is not able to actually heal but rather treats only the symptoms. This group of Class III and IV lasers provide superficial treatment of only a few centimeters. Thermal necrosis is a concern as is the wellbeing of the doctors, staff and patients. OSHA requires eye ware along with other safety regulations. Clinical studies concerning the long-term benefits of therapeutic lasers are still inconclusive.

**Shockwave therapy** can be good on specific disorders. However, treatments are often painful, very loud, and frequently require sedation. The variance in the shockwaves machines can cause tissue damage and large vessels and nerves and cavities like lungs must be avoided. It is also costly and has limited applications.

**Ultrasound** has been used since the 1940s for treating connective tissue, yet there is still a lot of discussion about its benefits. And, it should not be used in proximity to open wounds or metal implants, or in cases of cellulitis, infection, unstable fractures or surgical incisions.

### Introducing ThermoWave Therapy™ with Breakthrough Molecular Healing

Into this context ThermoWave Therapy emerges with its scientific breakthroughs that provide both effective treatment and expeditious recovery for large and small animals, as well as rapid relief from pain and chronic conditions without damage to healthy tissue.

This is because ThermoWave . . .

- Alleviates pain and accelerates healing
- Provides rapid soft tissue, hard tissue and neurological repair
- Improves the effectiveness and speed of traditional cancer treatments

*“The results for pain management are outstanding and incredible! ThermoWave eliminated pain and lameness for all my dog and cat patients like no prescription medication could ever do.”*

Dr. Denise Ceravolo, DMV  
Village Animal Hospital – Jericho, NY

ThermoWave is proven (see Case Studies on [www.ThermoWaveTherapy.com](http://www.ThermoWaveTherapy.com)) to exceed the benefits of conventional treatments with visible results much faster. It comfortably and safely **heats tissue to temperatures between 41 – 44° Celsius which increases blood flow by 1500% at depths of 15 cm, depending on the Specific Absorption Rate (SAR) of the target tissue**, which promotes healing, as never before possible. ThermoWave accomplishes this by **activating molecular motion 1000 times smaller than the capability of ultrasound**. It's this molecular motion that induces elevated temperature creating more heat than it dissipates in compromised cells. The efficacy and safety of deep heat treatment, which delivers unprecedented therapeutic results in large and small animals, is uniquely pioneered by ThermoWave.

Historically heat treatments have either been superficial or cost prohibitive necessitating industrial type equipment accessible only to large hospitals. The latest innovative technology has overcome many of these obstacles and through this product, the extraordinary benefits of hyperthermia therapy are finally available and accessible to the local veterinarian as well.

Now ThermoWave Therapy offers the following . . .

- Non-invasive deep treatments (1-15 cm)\*
- Real-time temperature monitoring (internal and external)\*\*
- Proven ability to effect precise deep energy modulation
- Heats to 41-44°C with no need for cooling bolus
- Meta-material flexible applicator pads with multiple sensors\*\*\*
- Uniquely optimizes Time to Temperature delivery profile
- Typical application is about 15 minutes per area
- Utilizes the proven standard 434 MHz wavelength
- Dual mode - continuous wave or pulsed
- Equipment is portable, weighing a only 23 pounds
- Low voltage requirement



\* No other treatment accomplishes this depth of penetration

\*\* This is the only equipment on the market that does this

\*\*\* Patented unique technology exclusive to ThermoWave

**No other technology can affect the electrical field, increase blood flow and cell permeability, or change cell polarity.**

One of the most remarkable features of **ThermoWave Therapy** is its versatility and range of indications.

➤ **Rehabilitation**

- Reduction in inflammation and pain
  - Increase localized blood flow, nutrients, and oxygen
- Optimized cell membrane permeability
  - Efficient drainage and removal of excess fluids and necrotic debris

➤ **Neurology**

- Electrical energy helps reconnect neurological tissue
- Accelerated healing

➤ **Oncology**

- Adjunct treatment to chemo/radiation therapy
- Increases membrane fluidity and instability of cancer cells and when used in conjunction with carboplatin leading to apoptosis in only non-conforming cells
- Activates heat shock proteins like p53, a tumor suppressor transcription factor that is often mutated or decreased in cancer cells
- Melanoma – finally a treatment for one of the most deadly and obstinate indications in veterinary science
- Treats osteosarcoma and fibrosarcoma

➤ **Immunology**

- Eliminates infections
- Addresses autoimmune diseases
- Improves endocrine diseases

➤ **General Applications**

- Post-surgical healing - 72 hours after
- Treats new and old wounds and scars

***“The conversion of hyperthermia technology from bulky, awkward and only partially effective heating approaches to small convenient systems with deep penetrating, patient conforming applicators . . . is long awaited.”***

Director of Hyperthermia Physics and Engineering Lab  
Duke University Medical Center

➤ **Competitive Sports**

- Optimizes pre-event conditioning
  - Increases tendon extensibility
  - Reduces muscle and joint stiffness
  - Maximizes contractile performance of muscles
  - Heats large muscles and trigger points for power and jumping
- Produces heat-shock proteins (HSP)
  - Heat shock induces expression of Heat Shock Proteins, whose function is to ensure optimal conditioning and positioning of proteins and the removal of necrotic debris from the cell.
  - It increases protein synthesis and decrease protein degradation.
  - Prevents skeletal muscle breakdown during exercise
  - Limits free radical damage to muscles
- Accelerates post-event therapeutic healing
  - Increases metabolic rate to accelerate soft tissue repair
  - Increases muscle recovery by reducing lactic acid buildup
  - Rapidly restores muscles, ligaments and tendons to health
  - Increases production and secretion of cytokines that induce tissue repair

## The Benefits of ThermoWave Therapy

There are many benefits that accrue with the use of **ThermoWave Molecular Therapy**

### ❖ To the Patient, ThermoWave Therapy is . . .

- Non-invasive and comfortable
- Rapid healing with fewer treatments
- Quick pain reduction
- Increased range of motion
- Now able to treat previously untreatable conditions
- A wide range of applications with non-invasive therapy
- Potential viable alternative to surgery

### ❖ To the Practice, ThermoWave Therapy is . . .

- The most advanced therapy available
- Heals at the molecular level, unlike other treatments
- Able to treat and heal more patients and conditions
- Potential for significant increased revenue stream
- Affordable – and with financing options available
- Portable weighing only 23 lbs.
- Retain business instead of out-referring it
- Simple application and easy to use

***“I think everyone should have access to ThermoWave Therapy. It can change the lives of animals and their families. It helps the body heal itself.”***

Debra M. Brown, Esq.  
Pet Owner

### References:

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