

AEL IR 4400 EQUINE LASER – A REAL GAMECHANGER!

Understanding Photonic Therapy & Class 3B Lasers

Photonic therapy, also known as photobiomodulation (PBM), utilizes specific light wavelengths to stimulate cellular processes, promoting healing and reducing inflammation. Class 3B lasers emit light with power outputs up to 500 milliwatts, making them suitable for therapeutic applications in equine care. The 904 nm wavelength is particularly effective due to its deep tissue penetration, reaching muscles, tendons, and joints.

Mechanisms of Action

- **Cellular Stimulation:** Laser light penetrates tissues, stimulating mitochondria to produce ATP, enhancing cellular energy and repair processes.
 - **Increased Circulation:** Promotes vasodilation, improving blood flow to the affected area, which aids in nutrient delivery and waste removal.
 - **Anti-Inflammatory Effects:** Reduces pro-inflammatory cytokines, decreasing swelling and pain.
 - **Analgesic Effects:** Modulates nerve function, providing pain relief.
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Therapeutic Benefits

- **Accelerated Tissue Repair:** Enhances collagen production and cell proliferation, speeding up healing processes.
 - **Pain Reduction:** Provides relief from chronic and acute pain conditions.
 - **Improved Mobility:** Increases range of motion by reducing stiffness and inflammation.
 - **Enhanced Performance:** Supports muscle recovery and joint function, beneficial for athletic horses.
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Safety Considerations

- **Eye Protection:** Always use appropriate goggles to protect both the practitioner and the horse from laser exposure.
- **Skin Sensitivity:** Avoid prolonged exposure to prevent thermal damage.

- **Contraindications:** Do not use over tumors, eyes, or areas with active hemorrhage.
 - **Operator Training:** Ensure proper training to administer therapy safely and effectively.
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Treatment Areas & Protocols

Musculoskeletal System

- **Back & Neck:** Target areas of muscle tension and stiffness.
- **Shoulders & Hips:** Address joint mobility and muscle soreness.
- **Limbs:** Focus on tendons and ligaments for injury recovery.

Acupuncture Points

- **GV14 (Dazhui):** Located at the withers, beneficial for immune support and pain relief.
- **BL23 (Shenshu):** Near the lumbar region, supports kidney function and energy.
- **LI4 (Hegu):** On the forelimb, used for pain modulation and relaxation.

Note: Consult with an equine acupuncture chart for precise point locations and applications.

Sample Treatment Protocols

Condition	Wavelength	Power Output	Duration	Frequency
Tendon Strain	904 nm	200 mW	5–10 min	2–3x/week
Osteoarthritis	904 nm	300 mW	10–15 min	2x/week
Muscle Spasm	904 nm	250 mW	5 min	As needed
Post-Surgical Recovery	904 nm	150 mW	10 min	3x/week


Adjust parameters based on individual horse response and veterinary guidance.

Illustrative Diagrams

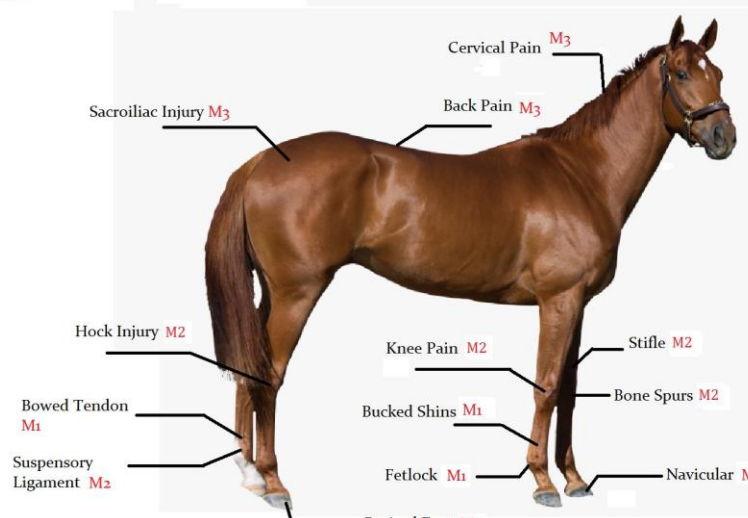
- **Horse Anatomy:** Detailed diagrams highlighting muscle and skeletal structures.
- **Treatment Zones:** Visual guides for effective laser application areas included.

◆ Conclusion

Class 3B (904 nm) laser therapy offers a non-invasive, effective modality for treating various equine conditions. Proper training and adherence to safety protocols are essential for optimal outcomes.



AEL IR LASER 4400 TREATMENT CHART



Stored dosages (Continuous Wave)

M1: 20J 45 sec

M2: 25J 56 sec

M3: 40J 1min 29 sec

Daily treatment for 2 weeks or treatment every other day for 3-4 weeks is recommended.

Irradiation should cover most of the pathological tissue in the tendon.

*Place Cluster Head directly onto injured area as selected from chart.


*If skin is broken, place the head 2-3 mm above the surface of the damaged area to avoid infection.

*After dosage is delivered, shift the head to a new treatment location.

*Always wear laser safety eyewear during laser treatment.

Refer to reverse side regarding Treatment Protocols for injuries using Nogier frequencies

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Read our 5 star Reviews & Glowing Customer Testimonials

The best in the business. For a great product and great service to match. Very highly recommended! The horses have responded very well to the treatment.



This laser is amazing!!

I wasn't sure what results I was going to have with it but after several conversations with Tracey, I decided to take the plunge and purchase one and I am so glad I did. The results so far in such a short period of time are truly amazing. I will now be adding it to the list of modalities I offer with my business - Equiflex Performance Therapies. If you're considering purchasing do it, it will be the best thing you do.



I have been using the 3B Cold Laser in my business for two months now and the feedback has been nothing but positive. From horse's suffering severe Arthritis, restricted mobility and movement to flesh wound injuries the Laser has proven itself to be a very valuable piece of equipment.



I was looking into cold laser therapy for the purpose of treating old scar tissue. I came across AE Lasers. Tracey was amazing to deal with. I have been using it on an old hoof injury. Internally I cannot see results. However I have just treated a small external scar which was really quite thick. After just 2 treatments the scarring was so significantly reduced I was amazed, as it is now almost flat. I'm excited for the internal scarring reducing.



I would highly recommend these lasers they are easy to use and the information that comes with them is easy to follow, the service from AEL is 2nd to none the laser arrived 3 days after being dispatched and Tracey is very helpful even after receiving the laser.



Photochemical responses at the cellular level using the AEL IR 4400 Equine Laser



AEL IR 4400 904nm Cluster Head

Decreased inflammation & swelling

Increased collagen production

Increased nerve regeneration

Increased muscle repair & regeneration

Increased cartilage production

Enhanced bone growth & healing

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