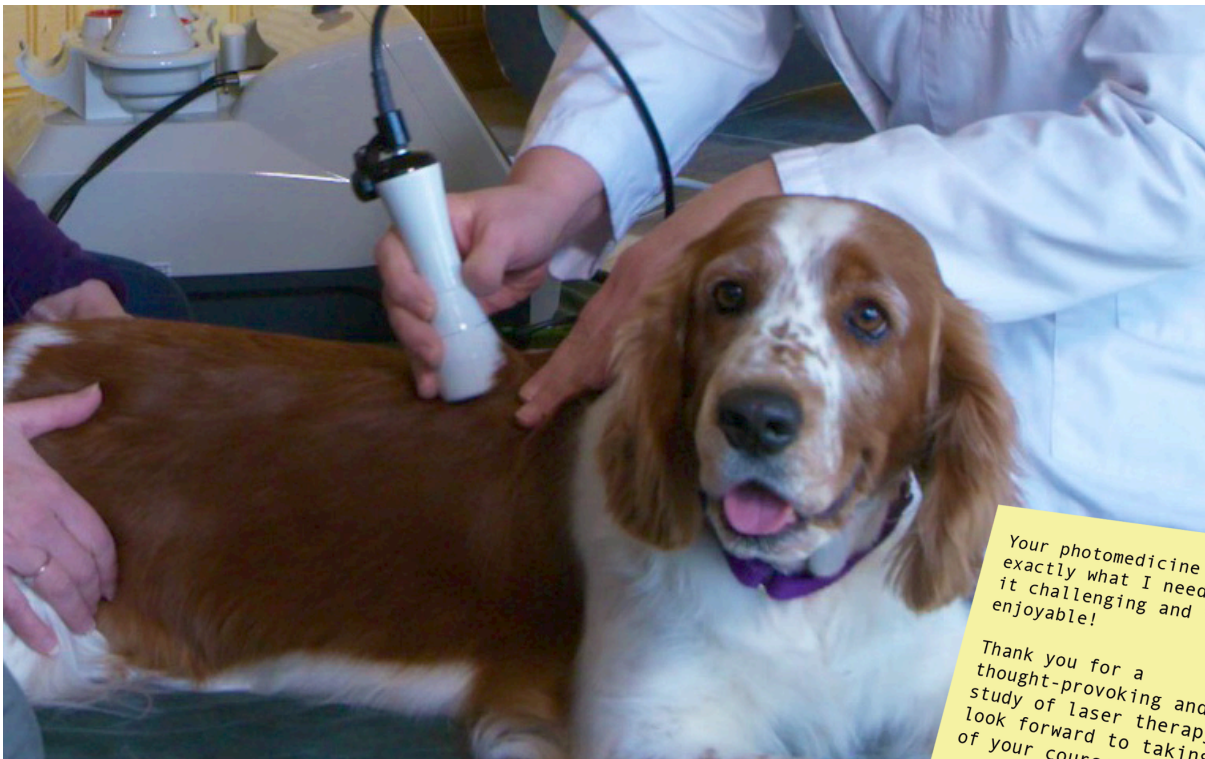


PHOTOMEDICINE FOR VETERINARIANS



Your photomedicine course was exactly what I needed. I found it challenging and thoroughly enjoyable!

Thank you for a thought-provoking and in-depth study of laser therapy. I look forward to taking more of your courses.

Lorraine Lee, VMD



SEE WEBSITE FOR ADDITIONAL INFORMATION.
Narda G. Robinson, DO, DVM, MS, CRPM, FAAMA

40 CE Hours

PHOTOMEDICINE PHYSIOLOGY

SCIENCE, EVIDENCE AND CLINICAL APPLICATIONS.

ABOUT THE COURSE

Designed for veterinary professionals, this course instructs participants on how light heals tissue, alleviates pain, and improves function for a variety of acute and chronic clinical conditions. It includes recorded lectures, reading assignments, web-based videos, and assessments. Through this multi-media approach, the student builds a solid foundation in the physics, physiology, and clinical value of photomedicine. We also explore the value of less intense laser treatment, delivered at a slower pace, to optimize healing and maximize safety.

COURSE DIRECTOR

Narda G. Robinson, DO, DVM, MS, CRPM, FAAMA President and CEO of CuraCore® VET

- "Laser Acupuncture: Keep It Scientific." *Photomedicine and Laser Surgery*, 32(12), pp. 647–648.
- "Photomedicine, not opioids, for chronic pain." *Photomedicine and Laser Surgery*, 34(10), pp. 433-434.
- Chapter 31. Photomedicine for exotic animals: a case-based discussion. In *Handbook of Low-Level Laser Therapy*. Hamblin MR, Pires de Sousa MV, and Agrawal T (eds.). Pan Stanford Publishing, Pte, Ltd., 2017. pp. 559-579.

ADMISSION ELIGIBILITY

Registration is open to all veterinary healthcare providers. Please contact your state's licensing or comparable regulatory board (if you practice outside the United States) with regard to whether this course qualifies for 40 hours of continuing education. Those who satisfy all the requirements of the program will receive a certificate of completion.

COURSE CONTENT AND ACCESS

Participants gain access to the online materials for one year following their enrollment. Content includes 12 modules that participants complete at their own pace. Each module may contain videos, reading assignments, and assessments. Each participant must finish the program within the one year access period in order to receive a certificate of completion. Course content subject to change as new research becomes available.



COURSE OVERVIEW

Module 1. Introduction to Photobiomodulation — Devices and Controversies

- Establish a firm footing in the terminology and physiology of photobiomodulation
- Become familiar with the devices and settings of photomedicine equipment, as well as claims and controversies surrounding their use and effectiveness

Module 2. Photomedicine Physiology I — How Light Repairs Tissues

- Explain the changes that occur within cells following exposure to photons
- Describe how mitochondria respond to light and why they are considered “photoacceptors”
- Identify at least three tissues that respond to light in a reparative manner, including how their responses are similar to each other and how they differ
- Explain how laser therapy supports regenerative medicine

Module 3. Photomedicine Physiology II — How Light Reduces Pain

- List the general analgesic effects of light for a variety of pain problems, including neuropathic, traumatic, and inflammatory pain, both acute and chronic
- Explain how the neuroanatomic and myofascial substrates of a patient’s pain problem inform photomedicine treatment protocols

Module 4. Photomedicine Physiology III — How Light Impacts Inflammation

- Describe at least three avenues through which light reduces inflammation, whether local, regional or system-wide
- Develop treatment approaches based on evidence and anatomical considerations

Module 5. Photomedicine Physiology IV — Immunomodulation

- Identify at least three ways in which photomedicine impacts the immune system
- Describe how clinical conditions involving the immune system could benefit from photomedicine
- Consider dysfunctional immune states for which photomedicine could be contraindicated

Module 6. From Molecules to Medicine — The Spectrum of Clinical Conditions Addressed by Photobiomodulation

- Examine and describe the relative strength of evidence for a variety of clinical conditions

Module 7. Healing the Skin and Regenerating Tissue with Light — Science, Evidence, and Controversies

- Discuss the physiologic rationale for treating skin wounds with photomedicine
- Identify preferred treatment parameters for wounds based on science and evidence

Module 8. Photomedicine for Traumatic Brain Injury and Other Brain Disorders

- Formulate a cogent rationale for treating cerebral dysfunction and injury with photomedicine
- Define appropriate treatment parameters for brain-based disorders and dysfunction

Module 9. Spinal Cord Disease, Dysfunction, and Trauma

- Identify the value of photomedicine for patients with spinal cord injury, disease and dysfunction
- Note the appropriate treatment parameters for patients with spinal cord issues

Module 10. How to Treat Neurologic Injury with Photobiomodulation

- Describe the physiologic effects of photomedicine on peripheral nerve injury
- Define appropriate parameters for treatment of spinal cord problems based on anatomy and physiology

Module 11. Photomedicine in Rehabilitation and Pain Practice — Promoting Functional Restoration and Analgesia

- Identify muscular, fascial, and neural contributors to functional restoration with photomedicine
- Describe key targets and treatment parameters for an array of rehabilitation scenarios

Module 12. Emerging Applications in Photomedicine, including Photodynamic Therapy for Cancer and Internal Organ Treatment, and Laser Acupuncture

- List novel applications for photomedicine in oncology and internal medicine
- Contrast light therapy as used in a pain and rehabilitation setting with photodynamic therapy as utilized in oncology practices

YOUR NEXT STEP STARTS HERE

REGISTER AND BEGIN LEARNING TODAY.

curacore.org/vet/courses/photomedicine/



Narda G. Robinson, DO, DVM, MS, CRPM, FAAMA

Narda is a leading authority on scientific integrative medicine from a One Health perspective. With over two decades of practicing, teaching, and writing about integrative medical approaches in both veterinary and human osteopathic medicine, Dr. Robinson helps healthcare professionals sort fact from fiction.



A scholar, researcher, and published author, Dr. Robinson held the only professorship at a veterinary college designed specifically to investigate the legitimacy of integrative medicine. In 1998, she launched Colorado State University's first integrative medicine service and for eight years directed CSU's Center for Comparative and Integrative Pain Medicine. Over the past two decades, Dr. Robinson has taught a variety of popular, scientifically based continuing education courses, ranging from medical acupuncture and massage to botanical and photomedicine.

Dr. Robinson holds a Bachelor of Arts (AB) degree from Harvard/Radcliffe, a doctorate in osteopathic medicine (DO) from the Texas College of Osteopathic Medicine, and a doctorate in veterinary medicine (DVM) and master's degree in biomedical sciences (MS) from the Colorado State University College of Veterinary Medicine and Biomedical Sciences. She is a fellow within the American Academy of Medical Acupuncture. She also has served on the American Board of Medical Acupuncture, the board-certifying organization for physician medical acupuncturists.

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