Photomedicine: Laser Therapy and Light-Emitting Diodes (LEDs)
Learn the Scientific Basis, Evidential Support, and the Application of Photomedicine for Clinical Conditions
24 Hours of Continuing Education

See website for additional registration information and course fees
CuraCore.org
Photomedicine
Science, Evidence and Clinical Applications.

12 Online Modules - 24 Hours of Continuing Education

Designed for both medical and veterinary clinicians and researchers, this course instructs participants on how light heals tissue, alleviates pain, and improves function for a variety of acute and chronic clinical conditions. The course includes recorded lectures, reading assignments, web-based videos, and assessments. Through this multi-media approach, the course builds a solid foundation in the physics, physiology, and clinical value of photomedicine.

The translational approach furthers participants’ awareness of the diversity of applications and the extent of multidisciplinary research that informs evidence-based care.

Course participants learn in a self-paced manner and will have access to the online materials for six months. Each module contains approximately two hours of structured activity.

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

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

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

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

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

Course Director and Instructor
Narda G. Robinson, DO, DVM, MS, FAAMA
• President and CEO of CuraCore™
• Vice-President of the North American Association for Photomedicine Therapy
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

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

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

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

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

11. Photomedicine in Rehabilitation and Pain Practice Promoting Functional Restoration and Analgesia
    • Identify muscular, fascial, neural, and functional contributors to functional restoration with photomedicine
    • Describe key targets and treatment parameters for an array of rehabilitation scenarios

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

Admission Eligibility
Registration is open to human and veterinary healthcare providers. The course is not a substitute for proper training, education, or licensure in medicine, but is intended solely as a source of scientific, evidence-based knowledge. 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 24 hours of continuing education. Those who satisfy all the requirements of the program will receive a certificate of completion.

Course Content and Access
Participants will gain access to the online materials for six months following their enrollment. Content includes 12 modules that participants can complete at their own pace. Each module may contain videos, reading assignments, and homework. Each participant must finish the program within the six month access period in order to receive a certificate of completion. Sequence of and content instruction subject to change.
Narda G. Robinson, DO, DVM, MS, FAAMA is the 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 in order to provide effective, science-based integrative healthcare.

From 1998 to 2016, Dr. Robinson taught integrative medicine at the Colorado State University of Veterinary Medicine and Biomedical Sciences. She served as the Director of the CSU Center for Comparative and Integrative Pain Medicine for eight years.

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 serves on the American Board of Medical Acupuncture, the board-certifying organization for physician medical acupuncturists.

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Change your life, your practice, and your patient’s future for the better!

For Additional Information Visit CuraCore.org or Contact:
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