

# **Back To Chiropractic CE Seminars ~ Presented by: Dr. Larry Adams, DC, DACBN 6 Hours Neurology For Your Practice: Learning Objectives & Outline**

Clinical Neurology for the practicing Chiropractor 6 Hours

## **Learning Objectives:**

1. Review basic neuro exam and practical application for implementation to everyday practice.
2. Introduce concept of hemisphericity (left vs right brain function) and practical clinical application for DC's.
3. Treating the "dizzy" patient. Easy and practical tests/evaluations to determine central vs peripheral causes of dizziness/ vertigo and easy practical treatment.
4. Feeding the body and brain what it needs. Learn straight forward concepts of neurocognitive and metabolic functions affected by stress and injury. Learn practical nutritional treatments.
5. Discuss and introduce simple straightforward concepts and applications of neuro-rehabilitation. Review neuroanatomy of the spine and its active and reflexogenic properties for treatment of everyday conditions to the complex whiplash patient.
6. Discuss how chiropractic neurology helps explain chiropractic techniques and how and why so many diverse techniques are effective. Provide support and knowledge to each chiropractor to effectively communicate how and why their specific technique works.

## **Outline**

First hour: Discuss basic head to toe neuro exam. Specific emphasis on Cranial Nerves, cerebellum, blind spots, reflexes(DTR and primitive), Basal Ganglia, eye movements and motor and sensory pathways. Integrate these common exams into easily implemented treatments for everyday practice.

Second hour: Discuss the dual nature of the brain as it relates to left and right integrated functions(left brain hemisphere-right side of body, right brain hemisphere-left side of body) known as "Hemisphericity" and how the neuro exam helps determine the dominant side. Also, discuss this same principle as it relates to children and application of treatment.

Third hour: Discuss and introduce tests and exams for the "Dizzy" patient. Discuss the activation of the labyrinthine system and its relationship to eye movement, neck movement and rotation of the earth. Causes of dizziness/vertigo and determining central vs peripheral causes.

Fourth hour: Discuss and introduce principles of proper nutrition for nerve tissue. Discuss the effects of injury and stress on the body/brain and the foods/supplements that assist and accelerate neuronal and tissue healing. Neurons need 3 things to survive: 1. Fuel 2. Oxygen 3. Activation. Discuss these needs and how to properly implement them in a clinical setting and for home care recommendations.

Fifth hour: Discuss neuro and spinal rehab. Discuss spinal musculature. Specifically, shunt or stabilizing muscles vs spurt or primary movement muscles. Discuss the biological half-life of muscle protein and immediate early gene (IEG) response associated with the VSC. Provide and instruct specific implementable exercises to be utilized in everyday practice to strengthen and stabilize spinal muscles and improve brain plasticity/function.

Sixth hour: Discuss the neurological basis of chiropractic techniques and why they all have the capacity to effect change in the nervous system. Discuss the sensory and motor components of adjustments. Discuss coupled motion of spinal segments and its importance to brain activation. Demonstrate Dix-Hallpike test and Epley's maneuver.