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Chiropractic BioPhysics
CBP—The Science of Spinal Health

2018
Module 9. CBP® Neurology, Posture, & Systemic Health

Course Title: Neurology, Posture & Systemic Health

Instructors: Dr. Daniel Murphy and Dr. Deed Harrison

Course Objective: To provide a current education in the biomechanics and neuro-physiology of posture deformities as they relate to Systemic Health of the human. Detailed neuro-physiology of the central and peripheral nervous systems will be reviewed. Emphasis is placed on mechano-sensitive afferent nerve supply of the ligaments and muscles and their consequent relationship to abnormal posture/spine alignment and visceral dysfunction (Type O Disorders). Mechano-sensitive nerve endings in the facet capsular ligaments, spinal ligaments, intervertebral discs and muscles will be reviewed. This information forms the scientific rationale for the hypothesis of a Nerve Interference Theory based upon deformation of tissue mechano-receptors from abnormal tissue loading in abnormal posture and spinal alignment.

Total Hours: 12

Saturday

9am-12pm **Biomechanics of Posture Deformities**

- The effects of altered spinal mechanics on the tissues of the body,
- The effects of altered spinal mechanics on the central nervous system,
- The effects of altered spinal mechanics on the peripheral nervous system

3 Hr. CE. Lecture, Anatomy/Physiology

Noon-1pm **The Patho-anatomical Reasons for the Need of Chiropractic Healthcare**

1 Hr. CE. Lecture, Anatomy/Physiology

1pm-2pm **Indications and contraindications for prescribing home orthotics to patients populations for sagittal plane curve restoration**

- Cervical spine,
- Thoracic spine,
- Lumbar-pelvic region

2pm-6pm **Neurophysiology of Abnormal Spinal and Posture Deformity**

- Spinal Cord tethering: how it affects the health of the body, and how to manage by chiropractors
- The chiropractic affect of chronic pain from trauma: what is nerve sprouting,
- Hyper-reinnervation, denervation supersensitivity and neurospinal learning,
- The relationship between altered spinal mechanics, proprioception and systemic health,
- The relationship between altered spinal mechanics and myofascial pain syndrome/ fibromyalgia syndrome and chiropractic subluxation complexes

4 Hr. CE. Lecture, Anatomy/Physiology

6pm-7pm **Health Disorders that May Positively Respond to Chiropractic Intervention and Management of Sagittal Plane Deformities:**

- ICA Best Practices—Research evidence indicates that over 330 health conditions have been reported to respond to Chiropractic.
- Indications and contraindications for the use of home orthotics: Denneroll, Compression extension traction wedge, and others.

1 Hr. CE, Lecture, Technique – CBP **D. Harrison**

Sunday

9am-10am **The Role of the Sympathetic Nervous System in Systemic Health**

- How Chiropractic affects the sympathetic nervous system,
- The reflex nerve interference: definition of nerve compression nerve interference and predominance in chiropractic practice and its inter-relationship,

1 Hr. CE. Lecture, Anatomy/Physiology

10am-Noon **Neurophysiological and Biochemical Basis for Chiropractic & Nutritional Management of Chronic Pain & Disease**

- Including rheumatoid arthritis, systemic lupus erythematosus, psoriasis, Grave's Disease, multiple sclerosis, etc),
- Allergies, asthma, chronic fatigue syndrome, ear infections, hypertension, colds,
- Other systemic diagnosed diseases

2 Hr. CE. Lecture, Anatomy/Physiology