



## Chiropractic BioPhysics

*CBP—The Science of Spinal Health*

**April 4 – 5, 2025**

### **Module 2. CBP® Drop Table Adjusting**

**Course Title:** Drop Table Adjusting, Leg Length Inequality & Orthotic Intervention

**Instructors:** Dr. Deed Harrison, Dr. Jason Haas, Dr. Joe Ferrantelli

**Course Objective:** This course provides an integrated education for the Doctor of Chiropractic in the science and art of spine, posture, and lower extremity disorders. The total permutations of abnormal posture using formulas from probability theory will be delineated and a literature review on postural displacements as they correlate to patient conditions will be provided. The details of objective postural assessment and measurement will be reviewed. The Chiropractor will learn corrective global postural subluxation set-ups for the head, thoracic cage, & pelvis on a drop table. To provide diagnosis, analysis and course of care for short leg syndrome and lower extremity disorders. A survey of research material will be reviewed supporting the utilization and efficacy of Chiropractic Biophysics drop table technique treatment methods across a population of patients with chronic pain conditions.

**Total Hours:** 13

### **Friday**

**2 PM – 4 PM Biomechanics Principles of Postural Rotations and Translations in CBP technique set ups:**

- **Structural Displacements**
  - Segmental displacement
  - Posture and spinal displacement patterns
- **Permutations of Postural Displacements**
  - Single postures of the head, thorax, and pelvis,
  - Double, triple, quadruple, ..., sextuple combination postures of head, thorax, and pelvis equating to 728 unique postural combinations of each region,

**4:30 PM – 5:30 PM Categories of Biomechanical Principles and the Subluxation that will be reviewed and utilized to determine postural rotation and translations in technique set ups:**

- **Functional**
  - Hypo/Hyper mobility of spinal segments
  - Fixed segments
  - Aberrant motion or altered coupling
  - Coronal and Sagittal plane Hyper tonic muscles (spasm)
  - Coronal and Sagittal plane Asymmetrical muscle activity
- **Review Postural Displacements Correlated to Health Disorders**
  - The prevalence of lateral head shift postures in a patient population: A correlation of posture magnitude, pain, and demographic variables.

**5:30 PM – 6:30 PM Objective Measurements of Postural Displacements**

- Types of postural measurement devices,
- Reliability and validity of postural measurement devices,

- PostureScreen computerized photographic measurement of 3-D postural displacements: Reliability and validity studies,
- Clinical implementation of the Posture Analysis systems and understanding the reported measurements: Posture Index scale.

**7 PM – 8 PM Comprehensive CBP Drop Table set-ups with Biomechanical Principles.**

- How to utilize Postural rotations and translations in drop table set-ups,
- Single, double, and triple combination global postural subluxation set-ups for the head, thoracic cage, and pelvis on a drop table,
- AP Full Spine Drop Table Mirror-Image Adjusting,
- Lateral Full Spine Drop Table Mirror-Image Adjusting.

## **Saturday**

**9 AM – 10 AM Comprehensive CBP Drop Table set-ups with Biomechanical Principles.**

- Double, and triple combination global postural subluxation set-ups for the head, thoracic cage, and pelvis on a drop table,
- AP Full Spine Drop Table Mirror-Image Adjusting,
- Lateral Full Spine Drop Table Mirror-Image Adjusting.

**10:15 AM – 1:15 PM Practical Station Demonstrations**

- Drop Table Mirror Image Adjustments:
  - a) AP Cervical Drop Table Mirror-Image Adjusting,
  - b) AP Thoracic Drop Table Mirror-Image Adjusting,
  - c) AP Pelvic Drop Table Mirror-Image Adjusting
  - d) Sagittal Drop Table Mirror-Image Adjusting.

**1:15 PM – 2:30 PM LUNCH**

**2:30 PM – 3:30 PM Research and Evidence for Chiropractic Structural Based Programs of Care**

- Review randomized trials for cervical lordosis rehabilitation
- Review randomized trials for lumbar lordosis rehabilitation
- Review CBP corrective care protocol of care with Frequency and Duration

**3:30 PM – 5:30 PM Anatomical vs. Functional Leg Length Inequality & Foot Disorders**

- Understanding the functional vs. functional short leg,
- Incidence and prevalence of leg length disorders,
- Reliability and validity of leg length assessments,
- Sacral obliquity and anomalies mimicking leg length discrepancies,
- Health consequences of leg length discrepancies,
- Interventional orthotics for leg length discrepancies and pelvic asymmetry,

**6 PM – 7 PM Review course material, summarize.**

- Question and Answer and case study presentations.
- Review drop table posture setups.