



Chiropractic BioPhysics
CBP—The Science of Spinal Health

2024

Module 1. CBP® Basic or X-ray & Posture Seminar

Course Title: Basics of CBP Technique

Instructors: Dr. Deed Harrison, Dr. Joe Ferrantelli, Dr. Pete Lope, Dr. Jason Haas, Dr. Joe Betz

Course Objective: This course provides an integrated education for the Doctor of Chiropractic reviewing the literature on frequency and duration topics for establishing a logical treatment plan for Chiropractic patients. This course will define two types of structural based models for chiropractic assessment, interventions and outcomes. The first is a set of average and ideal alignment values for the upright spinal column and the second is an optimum static equilibrium upright postural model; detailed literature will be presented. Using the models as a starting position, six biomechanical types of subluxation will be delineated. Emphasis will be placed on abnormal posture and segmental spinal coupling patterns as rotations and translations in 3-D as well as alterations of the sagittal plane curvatures. The validity, reliability, projection geometry of CBP analysis methods will be presented. The CBP® method of postural examination and with practical technique training stations will be taught. Some basic definitions and theorems from mechanical engineering governing rigid body motion will be reviewed and applied to the spine and posture. The attendee will learn to identify, categorize, quantify, and correct the structural component of the vertebral subluxation complex. Lastly, the attendee will learn to structure a patient specific, evidence based CBP Rehabilitative Program of care terms of frequency and duration of care.

Total Hours: 12

Friday
10am-12pm

Overview of CBP Technique, CBP Mirror Image Procedures

- Rationale for Care, Acute versus Chronic Care,
- Define Chiropractic & Subluxation, 3-D Postural Analysis,
- Postural displacements and vertebral kinematics,
- Mechanical engineering principles: 3-D listing system for spine and posture displacements.

12pm-1pm

CBP Technique Care Plans: Rehabilitative vs. Supportive and Maintenance Care:

- Initial Report of findings and Structuring a CBP Rehabilitative Program of care for patients based on examination findings: What does the literature say in terms of frequency and duration of care?
- Re-Report of findings, Explanation of patient outcome measures, and Structuring a 2nd CBP Rehabilitative Program of care: What does the literature say regarding frequency and duration of care?
- Maintenance vs. Supportive care plans for patients: What does the literature say?

1pm-2pm

Lunch

2pm-3pm

Introduction to A system Analysis of 2-D CBP Procedures & Views, Equipment Alignment

3pm-5pm

A System of 2-D Analysis:

- Modified Riser-Ferguson,
- Posterior Tangents,
- CBP peer-reviewed published reliability studies.

Saturday

10am-12pm

Practical Technique Station Demonstrations

- Postural analysis as rotations and translations,
- Mirror image drop table adjusting for postural displacements,
- Mirror image instrument adjusting for postural displacements,
- Mirror image exercise for strength, flexibility, posture correction.

12pm-1pm

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.

1pm-2pm

Lunch

2pm-4pm

Harrison Spinal Model as Goal of Care

- Cervical Spine—Spine 1996 and 2004,
- Thoracic Spine—J Spinal Disorders 2002 and Spine 2003
- Lumbar Spine---J Spinal Disorders 1997 and J Orthopedic Res 1998.

4pm-5pm

2-D Projection Physics & Image Distortion

- 2-D Projection Physics of 3-D Human Posture (JMPT 1998, Chiropractic Technique 1996)