



Chiropractic BioPhysics
CBP—The Science of Spinal Health

2010 CBP® Scoliotic Deformity Analysis & Conservative Management
July 17-18, San Francisco, CA

Course Title: Scoliotic Deformity Analysis & Conservative Management Strategies

Instructors: Dr. Deed Harrison, Dr. Joe Betz, and Dr. Jeb McAviney, Dr. Alyson Evans, Dr. Ed Glaser, Dr. Stu Currie,

Course Objective: This course provides an integrated education for the Doctor of Chiropractic in the science and art of understanding, evaluating, and management of scoliotic deformities in adolescents and adults. The link between genetic triggers, biomechanical growth modulation, environmental risks, and age development will be explained as they related to scoliotic deformities. Categories of scoliosis will be explained with emphasis on understanding risk factors for curve progression in both adolescent and adult scoliotic deformities. Cutoff curve values and age of onset will be explained to aid the Chiropractic clinician in deciding to management or refer the scoliosis patient for surgical consultation. The details of conservative management of scoliotic deformities are a major emphasis of this conference where new flexible bracing concepts and devices as well as rehabilitative procedures will be thoroughly explored. Evaluation of important curve variables as well as outcome assessments will be used to determine conservative management strategies and successful intervention. The details of case management using conservative bracing, adjusting and rehabilitative methods will be covered using a variety of case studies for a comprehensive picture of clinical application of this course material. Last, a survey of research material will be reviewed supporting the utilization and efficacy of the course materials.

Total Hours: 12

Saturday

9am-11am

Scoliosis Development Considerations and Indications for Surgical Referral

- The genetic role in development of scoliosis,
- The link between genetic trigger, growth modulation, growth maturation, spinal growth and curve progression,
- Categories of scoliosis: juvenile, neurologic, adolescent, adult onset, etc. . . .,
- Indicators for conservative treatment vs. surgical interventions for adolescent vs. adult scoliosis.

2 Hr. CE. Lecture/Principles of Practice/NMS Diagnosis

J. McAviney

11am-1pm

Bracing Indicators for Adult vs. Adolescent Scoliosis

- Introduction to SpineCor soft brace for scoliosis management,
- Indicators for SpineCor bracing in Adult scoliosis vs Adolescent Idiopathic Scoliosis,
- Pain and progression factors in Adult scoliosis,
- Conservative Treatment for Adult scoliosis,
- Early SpineCor results in Adults and in adolescents.

2 Hr. CE. Lecture/Principles of Practice/NMS Diagnosis

J. McAviney



- 1pm-2pm** **Lunch** **No CE Credits**
- 2pm-4pm** **Biomechanics of Curve Progression,**
- Euler Buckling & Scoliosis Progression;
 - Understanding Thoracic Spinal Kinematics and Scoliotic Deformities;
 - Evaluation of the Scoliotic Spine: Reliability & Validity of Important Measures;
- 2 Hr. CE. Lecture/Clinical Sciences** **J. Betz**
- 4pm-5pm** **Chiropractic Evaluation of the Scoliosis Patient & Outcome Variables**
- Postural Evaluation of the Scoliotic Patient: Rotations and Translations;
 - Important Outcome Measures for the Scoliotic Patient: Pediatrics vs. Adults;
 - Chiropractic and Scoliosis Reduction: A Review of the Literature;
 - Postural & Stress Bending Views to Assess Potential for Scoliosis Reduction;
- 1 Hr. CE. Lecture/Principles of Practice/NMS Diagnosis** **J. Betz**
- 5pm-6pm** **Biomechanical Assessment of Orthotic Intervention for Foot and Lumbo-Pelvic Scoliosis Disorders**
- Understand the rationale for exploring a new approach to biomechanical management of the foot and lower kinetic chain.
 - Explain the main design options for a MASS-type orthotic and correction position.
 - Know the five key biomechanical goals of stance phase gait and understand their relationship to the dynamics of the lumbo-pelvic spine.
 - Explore the theoretical effects of orthotic intervention for specific types of scoliotic deformities.
 - Answer the question: should a biomechanical orthotic be rigid or flexible for the scoliotic spine?
- 1 Hr. CE. Lecture; Clinical Sciences** **A. Evans, E. Glaser, S. Currie, D. Harrison**

Sunday

- 8am-Noon** **CBP Technique Principles of Management of Thoraco-lumbar and Thoracic Scoliosis**
- Thoracic Posture & Thoraco-Lumbar Coupling Kinematics;
 - Leg Length Inequality & Sacral Anomalies: Orthotic Intervention;
 - Differentiation of Thoraco-lumbar Scoliotic Pattern From 'Simple' Postural Spine Displacements;
 - Non-commutative Property of Finite Rotation Angles Under Addition;
 - Mirror Image® Scoliosis/Postural Stress Views: Indications and Contraindications for CBP® Technique Management of Scoliotic Deformities;
 - Conservative Management of Thoraco-lumbar Scoliosis: CBP® Technique Case Presentations;
 - Conservative Management of Thoracic & Complex Scoliosis: CBP® Technique Case Presentations
- 4 Hr. CE. Lecture/Technique—CBP** **D. Harrison**