

## Research Corner

# Dr. Mark Radermacher \$5,000 - Dr. Mark Payne \$2500 to CBP® Nonprofit



by Sanghak O. Harrison, DC  
Treasurer, CBP® Nonprofit, Inc.

Dr. Sang Harrison attended the University of Delaware and Life Chiropractic College in Atlanta, graduating in 1983. She interned with Dr. Don Harrison in Sunnyvale, California in 1983 and practiced in Fremont, California from 1984 to 1986, when she and Don were married and moved to Wyoming. She has been the financial officer for CBP®, Nonprofit since 1986. She has drawn all the skeletal drawings in the CBP® Technique textbooks. She is the co-author of 10 published, accepted, or in review research papers in the Index Medicus.

When Dr. Mark Radermacher of Total Practice Management, discovered that CBP® Nonprofit wished to fund Drs. Colloca and Keller's neurology research, he immediately donated \$5,000 towards the \$20,000 needed for this year's budget.

Dr. Mark Payne of MATLIN Manufacturing donated \$2,500 to CBP® Nonprofit, Inc in June 2001. This generous donation helped us finish several projects that were delayed due to lack of funds.

With the acceptance by JMPT of manuscript #59 in the list below, CBP® research now totals 50 published/accepted papers in peer-reviewed journals ([50/60]). We have an additional 2 other papers in review at present. Thus, we are on our way to 60!! Without your help, we cannot finish some of these important studies.

Dr. Deed Harrison is preparing our next CBP® five year plan of research with 33 additional projects being considered. By the year 2006, we plan to have 90 published/accepted papers in the Index Medicus.

While others may brag about their number of presentations at conferences, no one in chiropractic has the published papers in quality peer-reviewed indexed journals that CBP® has!

Recently, we received research proposals for funding from Chris Colloca, BS, DC and Tony Keller, PhD (University of Vermont) concerning neurological and biomechanical aspects of chiropractic thrusts. Drs. Colloca and Keller have recently been published in *Spine*, *Clinical Biomechanics*, and *JMPT*, but lost their funding at NICR (Activator). They have a track record of excellent research, which has not been funded by any college or university. Their addition to the CBP® research projects will make us the most published research organization in chiropractic. We have committed to funding their research. Please be generous and support (with your IRS tax-deductible donations to CBP® Nonprofit) this fine research through CBP® Nonprofit, Inc.

## CBP® RESEARCH PROJECTS AS OF JULY 2001

### I. X-Ray/Posture Reliability

- Jackson BL, Harrison DD, Robertson GA, Barker WF. Chiropractic Biophysics Lateral Cervical Film Analysis Reliability. *J Manipulative Physiol Ther* 1993;16(6): 384-91.
- Troyanovich SJ, Robertson GA, Harrison DD, Holland B. Intra- and Interexaminer Reliability of the Chiropractic Biophysics Lateral Lumbar Radiographic Mensuration Procedure. *J Manipulative Physiol Ther* 1995;18(8):519-524.
- Troyanovich SJ, Harrison DD. The Reliability and Validity of Chiropractic Assessment Procedures. *Chiropr Tech* 1996;8(1):1-4.
- Troyanovich SJ, Harrison DE, Harrison DD, Holland B, Janik TJ. A Further Analysis of the Reliability of the Posterior Tangent Lateral Lumbar Radiographic Mensuration Procedure: Concurrent Validity of Computer Aided X-ray Digitization. *J Manipulative Physiol Ther* 1998; 21(7): 460-467.
- Troyanovich SJ, Harrison SO, Harrison DD, Harrison DE, Payne M, Janik TJ, Holland B. Chiropractic Biophysics Digitized Radiographic Mensuration Analysis of the Anteroposterior Lumbar View: A Reliability Study. *J Manipulative Physiol Ther* 1999; 22(5): 309-315.
- Troyanovich SJ, Harrison DE, Harrison DD, Harrison SO, Janik TJ, Holland B. Chiropractic Biophysics Digitized Radiographic Mensuration Analysis of the Anteroposterior Cervicothoracic View: A Reliability Study. *J Manipulative Physiol Ther* 2000; 23: 476-82.
- Harrison DE, Harrison DD, Cailliet R, Troyanovich SJ, Janik TJ, Holland B. Cobb Method or Harrison Posterior Tangent Method: Which is Better for Lateral Cervical Analysis? *Spine* 2000; 25(16): 2072-78.
- Harrison DE, Cailliet R, Harrison DD, Janik TJ, Holland B. Centroid, Cobb or Harrison Posterior Tangents: Which to Choose for Analysis of Thoracic Kyphosis? *Spine* 2001; 26(11): E227-E234.
- Harrison DE, Cailliet R, Harrison DD, Janik TJ, Holland B. Radiographic Analysis of Lumbar Lordosis: Cobb Method, Centroidal Method, TRALL or Harrison Posterior Tangents? *Spine* 2001; 26(11): E235-E242.
- Janik TJ, Harrison DE, Harrison DD, Payne MR, Coleman RR, Holland B. Reliability of lateral bending and axial rotation with validity of a New Method to determine Axial Rotations on AP Radiographs. *J Manipulative Physiol Ther* 2001; 24: in press for Sept.
- Harrison DE, Holland B, Harrison DD, Janik TJ. Further Reliability Analysis of the Harrison Radiographic Line Drawing Methods: Crossed ICCs for Lateral Posterior Tangents and AP Modified Risser-Ferguson. *J Manipulative Physiol Ther* 2001;24: in press.
- Normand MC, Harrison DE, Cailliet R, Black P, Harrison DD, Holland B. Reliability, Concurrent Validity, and Measurement Error of the BioTonix Video Posture Evaluation System. *J Manipulative Physiol Ther* 2001; 24: in press.
- Harrison DE, Harrison DD, Janik

Dear Dr. Sang Harrison:

Please find enclosed my tax-deductible contribution for CBP® Nonprofit, Inc. This check is made out to:

**CBP®, Nonprofit, Inc.**

**P. O. Box 1590**

**Evanston, WY 82931-1590**

in the amount of \$\_\_\_\_\_ in the form of my check numbered\_\_\_\_\_ OR my credit card (VISA, MC, AMEX, DISC) number is\_\_\_\_\_. Exp.\_\_\_\_\_. I appreciate the spinal and subluxation-based research that you at CBP® are accomplishing. Keep up the good work.

Dues — \$250 or increments of \_\_\_\_\_

Enclosed is an additional \$100 (student donation: \$50) for CBP® Published Research Text 1993-96.

Enclosed is an additional \$100 (student donation: \$50) for CBP® Published Research Text 1997-98.

Enclosed is an additional \$100 (student donation: \$50) for CBP® Published Research Text 1999-00.

Sincerely,

\_\_\_\_\_, DC

TJ, Holland B. Reliability and Stability Over Time of Posture, X-ray positioning, and X-ray Line Drawing. (being written)

### II. Spinal Modeling

- Harrison DD, Janik TJ, Troyanovich SJ, Holland B. Comparisons of Lordotic Cervical Spine Curvatures to a Theoretical Ideal Model of the Static Sagittal Cervical Spine. *Spine* 1996;21(6):667-675.
- Harrison DD, Janik TJ, Troyanovich SJ, Harrison DE, Colloca CJ. Evaluations of the Assumptions Used to Derive an Ideal Normal Cervical Spine Model. *J Manipulative Physiol Ther* 1997; 20(4): 246-256.
- Troyanovich SJ, Cailliet R, Janik TJ, Harrison DD, Harrison DE. Radiographic Mensuration Characteristics of the Sagittal Lumbar Spine From A Normal Population with a Method to Synthesize Prior Studies of Lordosis. *J Spinal Disord* 1997;10(5): 380-386.
- Harrison DD, Cailliet R, Janik TJ, Troyanovich SJ, Harrison DE, Holland B. Elliptical Modeling of the Sagittal Lumbar Lordosis and Segmental Rotation Angles as a Method to Discriminate Between Normal and Low Back Pain Subjects. *J Spinal Disord* 1998; 11(5): 430-439.
- Janik TJ, Harrison DD, Cailliet R, Troyanovich SJ, Harrison DE. Can

the Sagittal Lumbar Curvature be Closely Approximated by an Ellipse? *J Orthop Res* 1998;16(6): 766-770.

- Harrison DE, Janik TJ, Harrison DD, Cailliet R, Harmon S. Can the Thoracic Kyphosis be Modeled with a Simple Geometric Shape? The Results of Circular and Elliptical Modeling in 80 Asymptomatic Subjects. In review.
- Harrison DE, Harrison DD, Cailliet R, Janik TJ, Harmon S. An Ideal Anthropometric Model of the Thoracic Kyphosis. (Being written)
- Janik TJ, Harrison DD, Harrison DE. The Harrison Spinal Model: Evaluation of the Slope, Shear, and Bending Moments at the Points of Inflection. (Being written)

### III. Technique

- Troyanovich SJ. A Chiropractic Approach to Exercise for the Pregnant Patient. *Chiropr Tech* 1993;5(2):56-59.
- Harrison DD, Jackson BL, Troyanovich SJ, Robertson GA, DeGeorge D, Barker WF. The Efficacy of Cervical Extension-Compression Traction Combined with Diversified Manipulation and Drop Table Adjustments in the Rehabilitation of Cervical Lordosis. *J Manipulative Physiol Ther* 1994;17(7):454-464.

**RESEARCH***continued from previous page*

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25. Harrison DD, Janik TJ, Harrison GR, Troyanovich SJ, Harrison DE, Harrison SO. Chiropractic Biophysics Technique: A Linear Algebra Approach to Posture in Chiropractic. **J Manipulative Physiol Ther** 1996;19(8):525-535.
26. Troyanovich SJ, Harrison DD, Harrison DE. A Review of the Validity, Reliability, and Clinical Effectiveness of Chiropractic Methods Employed to Restore or Rehabilitate Cervical Lordosis. **Chiropr Tech** 1998; 10(1): 1-7.
27. Harrison DE, Cailliet R, Harrison DD, Janik TJ, Holland B. New 3-Point Bending Traction Method of Restoring Cervical Lordosis Combined with Cervical Manipulation: Non-randomized Clinical Control Trial. **Archives Phys Med Rehabil** 2001; in press.
28. Harrison DE, Cailliet R, Harrison DD, Janik TJ, Holland B. Changes in Sagittal Lumbar Configuration with a New Method of Extension Traction and its Clinical Significance. 2001; In Review.
29. Harrison DE, Harrison DD, Janik TJ, Holland B. Non-randomized Clinical Control Trial of Conservative Methods to Correct Lateral Translations of the Thoracic cage: Analysis of 75 Consecutive Cases. (Being Written).
30. Harrison DE, Harrison DD, Janik TJ, Holland B. Non-randomized Clinical Control Trial of Conservative Methods to Correct Lateral Translations of the Head: Analysis of 71 Consecutive Cases. (Being written)
31. Harrison DE, Harrison DD, Janik TJ, Holland B, Colloca C. Seated Combined Extension-Compression and Two-Way Cervical Traction with Cervical Manipulation: Non-randomized Clinical Control Trial (Being written)
32. Black P, Normand M, Harrison DE, Harrison DD, Colloca C. Comparison of the Activator and CBP® Instruments. (being written)
- IV. Practice Protocols**
33. Troyanovich SJ, Harrison DE, Harrison DD. Review of the Scientific Literature Relevant to Structural Rehabilitation of the Spine and Posture: Rationale for Treatment Beyond the Resolution of Symptoms. **J Manipulative Physiol Ther** 1998;21(1):37-50.
34. Troyanovich SJ, et al. Grand Rounds Discussion: Patient with acute low back pain. **Chiropr Tech** 1999; 11(1): 24-32.
35. Troyanovich SJ, Harrison DD, Harrison DE. Low back pain and the lumbar intervertebral disc: Clinical considerations for the doctor of chiropractic. **J Manipulative Physiol Ther** 1999; 22(2): 96-104.
36. Harrison DE, Harrison DD, Troyanovich SJ, Harmon S. Its Time to Accept the Evidence for a Normal Spinal Position. **J Manipulative Physiol Ther** 2000; 23: 623-644.
- V. Reviews of the Literature**
37. Harrison DD, Troyanovich SJ, Harrison DE, Janik TJ, Murphy DJ. A Normal Sagittal Spinal Configuration: A Desirable Clinical Outcome. **J Manipulative Physiol Ther** 1996;19(6):398-405.
38. Harrison DE, Harrison DD, Troyanovich SJ. The Sacroiliac Joint: A Review of Anatomy and Mechanics. **J Manipulative Physiol Ther** 1997; 20(9): 607-17.
39. Harrison DE, Harrison DD, Troyanovich SJ. Three-Dimensional Spinal Coupling Mechanics. Part I: A Review of the Literature. **J Manipulative Physiol Ther** 1998; 21(2): 101-113.
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45. Harrison DD, Harrison SO, Croft AC, Harrison DE, Troyanovich SJ. Sitting Biomechanics Part II: Optimal Car Driver's Seat and Optimal Driver's Spinal Model. **J Manipulative Physiol Ther** 2000; 23(1): 37-47.
- VI. Critical Appraisal of Chiropractic Methods**
46. Harrison DD, Colloca CJ, Troyanovich SJ, Harrison DE. Torque: An Appraisal of Misuse of Terminology in Chiropractic Literature and Technique. **J Manipulative Physiol Ther** 1996;19(7): 454-462.
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49. Harrison DD, Colloca CJ, Troyanovich SJ, Harrison DE. Commentary, Torque Misuse Revisited. **J Manipulative Physiol Ther** 1998; 21(9): 649-655.
- VII. X-Ray Projection**
50. Harrison DD, Harrison DE, Troyanovich SJ, Hansen D. The Anterior-posterior Full-spine View: The Worst Radiographic View for Determination of Mechanics of the Spine. **Chiropr Tech** 1996;8(4):163-170.
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- VIII. Spinal Coupling/Biomechanics**
55. Harrison DE, Cailliet R, Harrison DD, Janik TJ, Troyanovich SJ, Coleman RR. Lumbar Coupling During Lateral Translations of the Thoracic Cage Relative to a Fixed Pelvis. **Clin Biomech** 1999; 14(10): 704-709.
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60. Harrison DE, Harrison DD, Cailliet R, Janik TJ. How Do Anterior/Posterior Translations of the thoracic cage affect the Sagittal Lumbar Spine, Pelvic Tilt, and Thoracic Kyphosis? 2001; in review.