

# CBP NonProfit Participated / Sponsored / Technique Publications for the Year 2025

Note-this is a list of publications that CBP NP researchers participated in or that CBP NP sponsored or that clinical researchers used CBP Technique treatment and protocols for interventions to improve patient outcomes. This is a collective effort of spine researchers around the world and is not the work one individual. In other words, we are a united team of like-minded men and women wanting to change and improve the way spine disorders are analyzed and treated for the betterment of human health. For a complete list of all CBP NonProfit publications see:

<https://cbpnonprofit.com/publications/>

## Systematic and Clinical Literature Reviews

1. Betz JW, Lightstone DF, Oakley PA, Haas JW, Moustafa IM, Harrison DE. Reliability of the Biomechanical Assessment of the Sagittal Cervical Spine on Radiographs Used in Clinical Practice: A Systematic Review of the Literature. 2025, **In Review**
2. Lightstone DF, Betz JW, Oakley PA, Haas JW, Moustafa IM, Harrison DE. Reliability of the Biomechanical Assessment of the Sagittal Thoracic Spine on Radiographs Used in Clinical Practice: A Systematic Review of the Literature. Scientific Reports--- 2025, Draft Completed, **To Be Submitted.**

## Randomized Trials in 2024 or Identified in 2024 that were Previously Missed

3. Zadeh SAM, Shousha T, Moustafa IM, Khowailed I, Harrison DE. Does forward head posture correction improve temporomandibular joint dysfunction? A pilot randomized trial using a cervical extension traction orthotic. J Osteopath Med. 2025 Sep 8. doi: 10.1515/jom-2025-0081. ([Link](#))
4. Zadeh SAM, Alsaafin N, Moustafa IM, Harrison DE, Taha W, Shousha T. Does Forward Head Posture Correction Improve Temporomandibular Joint Dysfunction? A Randomized Controlled Trial. **2025; In Review**

## Prospective Cohort or Large Sample Case Series Investigations

5. Anwar G, Moustafa IM, Ahbouch A, Alrahoomi A, Harrison DE. The magnitude of sagittal head posture displacement and patient demographics predict rehabilitation outcomes in patients with chronic nonspecific neck pain. Sci Rep. 2025 May 30;15(1):18986. doi: 10.1038/s41598-025-04187-x. ([Link](#))
6. Moustafa IM, Ozsahin DU, Mustapha MT, Zadeh S, Khowailed I, Oakley PA, Harrison DE. Machine Learning Models for Predicting Treatment Outcomes in Chronic Non-Specific Back Pain Patients Undergoing Lumbar Extension Traction. 2025; **In 4<sup>th</sup> Review.**

7. **Moustafa IM, Kim M, Alrahal M, Alshabi M, Paul A. Oakley, and Deed E. Harrison.** Sagittal cervical radiographic parameters predict post-treatment pain: Application of machine learning models. 2025, **In Review.**

## Case Studies / Case Series

8. Longo K, Haas JW, Oakley PA, Harrison DE. Reduction in Severe, Chronic Mid-Back Pain Following Correction of Sagittal Thoracic Spinal Alignment Using Chiropractic BioPhysics® Spinal Rehabilitation Program Following Prior Failed Treatment: A Case Report with 9-Month Follow-Up. *Healthcare (Basel)*. 2025 Oct 14;13(20):2587. doi: 10.3390/healthcare13202587. ([Link](#))
9. Sanchez K, Haas JW, Oakley PA, Harrison DE. Improvement in Chronic Low Back and Intermittent Chronic Neck Pain, Disability, and Improved Spine Parameters Using Chiropractic BioPhysics® Rehabilitation After 5 Years of Failed Chiropractic Manipulation: A Case Report and 1-Year Follow-Up. *Healthcare (Basel)*. 2025 Apr 3;13(7):814. doi: 10.3390/healthcare13070814. ([Link](#))
10. Smith NJ, Woodham TJ, Fortner MO. Post-MVC Cervical Kyphosis Deformity Reduction Using Chiropractic BioPhysics Protocols: 1-Year Follow-Up Case Report. *Healthcare (Basel)*. 2025 Sep 28;13(19):2459. doi: 10.3390/healthcare13192459. ([Link](#))
11. Norton TC, Oakley PA, Haas JW, Harrison DE. Long-term stability of reducing cervical kyphosis via Chiropractic Biophysics® extension traction procedures: a case series. *J Physical Therapy Sciences* 2025; 38(1):32-38. [doi.org/10.1589/jpts.38.32](https://doi.org/10.1589/jpts.38.32) ([Link](#))
12. Fedorchuk CA, Lightstone DF, Fedorchuk CG, Fernandez CJ, DeGeorge SM, Harrison DE. Improvement in Physical and Mental Quality of Life Following Reduction of Lumbar Spondylolisthesis Using Chiropractic BioPhysics® Corrective Spinal Rehabilitation: A Case Series of 117 Patients with Lumbar Anterolisthesis(es). 2025. **In Review.**
13. Underhill ML, Fedorchuk CA, Fedorchuk CG, Lightstone DF. Improvement in Cervical Lordosis and Head Posture Using Chiropractic BioPhysics® May Redefine Neck Pain and Disability Recovery Pathways for Motor Vehicle Collision Whiplash Injury: A Multicenter Retrospective Consecutive Case Series. 2025. **In Review.**
14. Katz EA, Katz SB, Katz SF, Fedorchuk CA, Fedorchuk CG, Lightstone DF. Increased Cervical Disc Height Provides Evidence for Reversal of Cervical Disc Degeneration Following Improvement in Cervical Lordosis and Posture Using Chiropractic BioPhysics. 2025. **In Review.**

## Spine / Posture Case Control Validity Investigations

15. Anwar G, Moustafa IM, Khowailed I, Raghunathan MRK, Al Abdi R, Harrison DE. Comparison of corticomuscular coherence under different balance paradigms in individuals with and without forward head posture. *Sci Rep.* 2025 Jul 2;15(1):22985. doi: 10.1038/s41598-025-06603-8. ([Link](#))
16. Oakley PA, Moustafa IM, Betz JW, Jaeger JO, Harrison DE. Sensitivity and Specificity of Elliptical Modeling and Sagittal Lumbar Alignment Variables in Normal vs. Acute Low Back Pain Patients: Does Pelvic Morphology Explain Group Lordotic Differences? *Healthcare (Basel).* 2025 Dec 3;13(23):3163. doi: 10.3390/healthcare13233163. ([Link](#))
17. Moustafa IM, Khowailed IA, Zadeh SAM, Ozsahin DU, Mustapha MT, Oakley PA, Harrison DE. Advanced machine learning applications in fibromyalgia to assess the relationship between 3D spinal alignment with clinical outcomes. *Sci Rep.* 2025 Jul 2;15(1):22804. doi: 10.1038/s41598-025-05390-6. ([Link](#))
18. Moustafa IM, Ahbouch A, Zadeh SAM, Shousha T, Oakley PA, Harrison D. Differences in sensorimotor integration, cervical sensorimotor control, and cognitive-motor dual tasking costs in chronic non-specific neck pain patients with high vs. low catastrophizing tendencies compared to healthy controls. *Behav Brain Res.* 2025 Mar 12;481:115434. doi: 10.1016/j.bbr.2025.115434. ([Link](#))
19. Moustafa IM, et al., Harrison DE. Investigating Differences in Dynamic spinopelvic balance Between Individuals with and without Forward Head Posture. **Grad student project draft written, awaiting submission.**
20. Moustafa IM, et al., Harrison DE. How Balance Disturbances Influence Anticipatory and Compensatory Postural Adjustments: A Comparison Between Normal and Forward Head Postures. **Grad student project, draft written waiting to submit.**

## **X-ray Reliability / Validity Studies**

21. Oakley PA, Haas JW, Harrison DE. The Rationale and Safety of Routine Imaging in Rehabilitative Spine Care: Delayed Radiographs for Patients Presenting With Spine Disorders is Debatable. *Dose Response.* 2025 Aug 29;23(3):15593258251374411. doi: 10.1177/15593258251374411. ([Link](#))
22. Jaeger J, Haas JW, Betz JW, Oakley PA, Harrison DE. Sagittal cervical instability prevalence following whiplash trauma exposure. **2025, Draft written-needs submission**