

# Evidence-based Chiropractic



In today's chiropractic world, multiple impulse technology offers a gentle solution that leaves patients pain-free in a fraction of the time, without the twisting, popping and cracking of traditional chiropractic methods. In fact, chiropractors are finding that multiple impulse therapy tools such as the PulStar can effectively treat pain from musculoskeletal misalignments anywhere on the body— not just in the back.



## PRECISE

Used by a NASA affiliate to study spinal stiffness of astronauts in space



## GENTLE

Able to relieve infant colic



## EFFECTIVE

Randomized Controlled Trial (RCTs) prove faster and more marked results than conventional Lumbar Strain treatment



## PROVEN

23 Evidence-based peer-reviewed research studies

Still need more information? The next page contains 23 peer-reviewed papers that prove the effectiveness of the analysis and adjusting techniques of the PulStar.

## Studies Featured on Page One

### [“Influence of body position and axial load on spinal stiffness in healthy young adults.”](#)

By Melanie Häusler, Léonie Hofstetter, Petra Schweinhardt and Jaap Swenenburg | Published in the European Spine Journal: December 2019

### [“Swiss chiropractic researchers investigate spinal stiffness in space”](#)

Study conducted by Dr. Michael Meier and Dr. Jaap Swenenburg from the University of Zurich | Published by the World Federation of Chiropractic Quarterly World Report: January 2017

### [“Differential Compliance Instrument in the Treatment of Infantile Colic: A Report of Two Cases”](#)

By Robert A. Leach, DC | Published in the Journal of Manipulative and Physiological Therapeutics: Volume 25, Number 1, January 2002

### [“Clinical observation of the PulStar multiple impulse device in treatment of acute lumbar strain”](#)

By We Wanlin, Shi Mao, Xu Kang and Song Kemin (Department of Surgery, Jingxi Hospital for the Beijing Military Region) Published in China Medicine: Volume 12, Number 7, July 2017

## Recent Core Studies

### [“PulStar treatment in 45 cases of supraspinatus tendon calcification”](#)

By Liu Deyi, Li Rongwen, Liao Yunfeng, Qi Hong, Liu Fei and Zhang Xuesi (Benxi First People's Hospital, Benxi, China) Published in the Journal of Aerospace Medicine: Volume 27, Number 2, February 2016

### [“Multiple Impulse Therapy in the Assessment of Paraspinal Muscle Tone in Patients with Low Back Pain”](#)

By Robert Haładaj and Mirslaw Topol | Published in Ortopedia Traumatologia Rehabilitacja (Poland): 2016

### [“Multiple Impulse Therapy and Saunders Lumbar Traction Methods in the Treatment of Low Back Pain: A Randomized Controlled Trial”](#)

By Mariusz Pingot, Julia Pingot, Robert Haładaj and Mirosław Topol Published in the Journal of Novel Physiotherapies: November 2017

### [“Pilot study of the efficacy of multiple impulse therapy for cervical spondylosis”](#)

By Feng Xuanxian, Zou Yuzhen, Xu Yiming and Bai Yuehong (Shanghai Jiao Tong University Affiliated Sixth People's Hospital) Published June 2015

## Dr. Evans, PulStar Founder's Contributions to Chiropractic

### [“On the Origin of Atraumatic Neuromusculoskeletal Pain”](#)

By Joseph Evans, PhD | Published in the Chiropractic Journal of Australia: Volume 1, Number 1, January 2016

### [“The Clinical Application of Differential Compliance Methodology to Joint Fixation Identification and Resolution Using the PulStar”](#)

By Joseph M. Evans, PhD and Daniel L. Collins, DC | Published in the Journal of Vertebral Subluxation Research (A Peer- Reviewed Journal): Volume 2, Number 3: 1998

### [“The Clinical Application of Differential Compliance Methodology to Joint Fixation Identification and Resolution Using the PulStarFRAS™”](#)

By Joseph M. Evans, PhD and Daniel L. Collins, DC | Published in the Journal of Vertebral Subluxation Research (A Peer- Reviewed Journal): November, 1998

### [“The Minimum Energy Hypothesis: A Unified Model of Fixation Resolution”](#)

By Joseph M. Evans, PhD; C. Ray Hill, PhD; Robert A. Leach, DC; and Daniel L. Collins, DC | Published in the Journal of Manipulative and Physiological Therapeutics: February 2002

### [“A proposed method for estimating the efficiency and effectiveness of techniques of musculoskeletal therapy”](#)

By Joseph M. Evans | Published in the Journal of Manipulative and Physiological Therapeutics: Volume 28, Number 3, March/April 2005

### [“The use of survival analysis for the evaluation of musculoskeletal therapy”](#)

By Joseph M. Evans | Published in the Journal of Manipulative and Physiological Therapeutics: June 2005

## Third-Party Research Requiring Precise Technology

### [“Characteristics of Paraspinal Muscle Spindle Response to Mechanically Assisted Spinal Manipulation: A Preliminary Report”](#)

By William R. Reed, DC, PhD; Joel G. Pickar, DC, PhD; Randall S. Sozio, BS, LATG; Michael A.K. Liebschner, PhD; Joshua W. Little, DC, PhD, and Maruti R. Gudavalli, PhD | Published in the Journal of Manipulative and Physiological Therapeutics: 2017

## The Effectiveness of Multiple Impulse Therapy

### [“Documentation of compliance measurement used in the function recording and analysis system”](#)

By Joseph M. Evans and Christian L. Evans | Published December 1994

### [“Differential Compliance Measured By the Function Recording and Analysis System in the Assessment of Vertebral Subluxation”](#)

By Joseph M. Evans, PhD | Published in the Journal of Vertebral Subluxation Research (A Peer- Reviewed Journal): January 1998

### [“Similarities and differences between X-Ray analysis and computer fixation imaging of the cervical spine”](#)

By Joseph M. Evans and Daniel L. Collins, DC | Presented at the Seventh Annual National Subluxation Conference: October 1999

### [“PulStar Differential Compliance Spinal Instrument: A Randomized Interexaminer and Intraexaminer Reliability Study”](#)

By Robert A. Leach, DC; Patrick L. Parker and Paul S. Veal, DC | Published in the Journal of Manipulative and Physiological Therapeutics, October 2003

### [“The Efficiency of Multiple Impulse Therapy for Musculoskeletal Complaints”](#)

By Daniel L. Collins, DC; Joseph M. Evans, PhD; Reed H. Grundy, BSEE | Published in the Journal of Manipulative and Physiological Therapeutics, February 2006

### [“Pilot Study of Patient Response to Multiple Impulse Therapy for Musculoskeletal Complaints”](#)

By Joseph M. Evans, PhD; Daniel L. Collins, DC; and Reed H. Grundy, BSEE | Published in the Journal of Manipulative and Physiological Therapeutics, January 2006

### [“Notes on the validity of compliance measurements obtained with the force recording and analysis system”](#)

By Rob Crisman, DC | Published 1995