

JUSTIN DUKES, DC, CSCS

Medical Expert Witness

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PROFESSIONAL SUMMARY

Dr. Justin Dukes is a licensed Doctor of Chiropractic and Certified Strength & Conditioning Specialist with over 20 years of clinical experience in musculoskeletal assessment, biomechanics, rehabilitation, and sports medicine. He is the founder and owner of Body In Motion Chiropractic & Functional Fitness in Denver, Colorado, where he treats active patients ranging from recreational athletes to competitive runners and cyclists.

Dr. Dukes brings a unique combination of clinical practice, advanced biomechanical training, and industry consulting experience. He serves as a biomechanics consultant for Altra Running (VF Corporation), advising on footwear design and product development. He holds advanced certifications in 3D gait analysis, functional movement assessment, and multiple soft tissue treatment techniques. His expertise is particularly relevant in cases involving mechanism of injury analysis, causation of musculoskeletal injuries, chiropractic standard of care, gait and movement dysfunction, rehabilitation outcomes, and biomechanical assessment of injury patterns.

AREAS OF EXPERTISE

Injury Analysis & Biomechanics

- Mechanism of injury analysis for motor vehicle accidents, slip-and-fall incidents, workplace injuries, and sports-related trauma
- Biomechanical assessment of injury causation, including force analysis and body mechanics during injury events
- 3D gait analysis and motion capture interpretation (RunDNA/Trace 3D certified)
- Correlation of clinical findings with reported mechanisms of injury
- Assessment of pre-existing conditions vs. acute injury causation

Chiropractic Standard of Care

- Evaluation of chiropractic treatment appropriateness, frequency, and duration
- Review of diagnostic workup adequacy, including imaging and orthopedic testing
- Assessment of treatment plans relative to accepted clinical guidelines
- Evaluation of referral decisions and interdisciplinary coordination
- Analysis of documentation quality and medical record-keeping practices

Rehabilitation & Functional Outcomes

- Design and evaluation of rehabilitation programs for musculoskeletal injuries
- Assessment of functional limitations and disability related to injury
- Analysis of return-to-work and return-to-sport timelines
- Evaluation of maximum medical improvement (MMI) determinations
- Strength and conditioning program appropriateness for injured populations

Product Liability & Footwear

- Biomechanical analysis of footwear and orthotic devices related to injury
- Evaluation of product design and its relationship to gait mechanics and injury risk
- Expert knowledge of athletic shoe design, construction, and biomechanical impact

CASE TYPES

- Personal Injury (motor vehicle accidents, rear-end collisions, pedestrian/cyclist incidents)
- Premises Liability (slip-and-fall, trip-and-fall biomechanics)
- Workers' Compensation (workplace injury causation, functional capacity, return-to-work)
- Chiropractic Malpractice (standard of care, treatment appropriateness, informed consent)
- Sports Injury Litigation (coaching negligence, training program adequacy, return-to-play decisions)
- Product Liability (footwear, orthotics, fitness equipment)
- Insurance Disputes (medical necessity, treatment reasonableness, IME review)

SERVICES OFFERED

- Medical record review and case merit evaluation
- Written expert reports and declarations
- Deposition and trial testimony
- Independent medical examinations (IME)
- Biomechanical injury reconstruction analysis
- 3D gait analysis for litigation purposes
- Rebuttal reports and peer review of opposing expert opinions
- Attorney consultation and case strategy support

EDUCATION

Doctor of Chiropractic

University of Western States, Portland, Oregon

Bachelor of Science, Nutrition & Food Science

University of Vermont, Burlington, Vermont

Completed all pre-medical coursework. Participated in performance testing research for the medical school and graduate programs as a student athlete.

LICENSURE & CERTIFICATIONS

Licensure

- Licensed Doctor of Chiropractic — State of Colorado
- Basic Life Support for Healthcare Providers & Professional Rescuers
- CPR and AED Certified

Advanced Certifications

- Certified Strength & Conditioning Specialist (CSCS) — National Strength & Conditioning Association
- Certified Gait Analyst, Level 1 & 2 — RunDNA / Trace 3D
- 3DMAPS: 3-Dimensional Movement Analysis & Performance System — Gray Institute
- CAFS: Certification in Applied Functional Science — Gray Institute
- AMIT: Advanced Muscle Integration Technique
- Graston Technique — Instrument-Assisted Soft Tissue Mobilization
- FAKTR: Functional and Kinetic Treatment with Rehabilitation

PROFESSIONAL EXPERIENCE

Body In Motion Chiropractic & Functional Fitness

Owner & Treating Chiropractor | Denver, Colorado | 2009 – Present

- Founded and operate a multidisciplinary clinic integrating chiropractic care, rehabilitation, sports medicine, and functional fitness training
- Treat 60–70 patients per week across a diverse population including runners, cyclists, recreational athletes, and post-injury rehabilitation patients
- Developed comprehensive treatment and rehabilitation protocols utilizing manual therapy, corrective exercise, and 3D gait analysis technology
- Designed and implemented strength and conditioning programs for youth athletes, competitive sports teams, and post-surgical rehabilitation
- Oversee all clinical operations, documentation, and patient care standards

Altra Running (VF Corporation)

Biomechanics Consultant | 2019 – Present

- Serve as biomechanics subject matter expert advising product design and marketing teams on footwear development
- Apply clinical gait analysis expertise to evaluate shoe platform design and its impact on lower extremity biomechanics
- Contributed to the development of a new shoe platform that achieved significant sales growth

Kaiser Permanente

Staff Chiropractor | Colorado | 2009 – 2016

- Practiced within one of the nation's largest integrated healthcare systems, collaborating daily with physicians, specialists, acupuncturists, and physical therapists
- Managed a caseload of 150–180 patients per week in a high-volume clinical environment
- Coordinated care with primary care physicians, orthopedic surgeons, neurologists, and pain management specialists

- Operated within evidence-based clinical protocols and institutional quality standards

ADDITIONAL PROFESSIONAL ACTIVITIES

- Biomechanics and gait analysis educator — community workshops and athletic organizations
- Youth athlete strength and conditioning program design for high school and competitive cheerleading programs
- Coaching background in lacrosse at the high school and club level (Oregon)
- Performance testing and research participation at the University of Vermont School of Medicine
- Content creator: clinical exercise programming for running, strength, and rehabilitation delivered via digital platforms

ENGAGEMENT & AVAILABILITY

Dr. Dukes is available for case review, expert report preparation, deposition, and trial testimony. He accepts engagements from both plaintiff and defense counsel. Initial case consultations are available upon request.

Location: Denver, Colorado (available for travel and remote engagements nationwide)

Contact: (303) 905-0925 | drdukeschiro@gmail.com

Practice: bodyinmotiondc.com

Available for both plaintiff and defense engagements | Licensed in Colorado | Nationwide availability