



# Jeb McAviney

CEO, Clinician, Researcher and Speaker

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## Professional Mission

To further the understanding of scoliosis and its conservative treatment through providing education, conducting research and leading innovation in the field. To provide evidenced based and best practice approaches to scoliosis rehabilitation and bracing techniques. To give each patient individually tailored and exceptional multi-disciplinary care.

## Professional Experience

### ScoliCare

*CEO*

October 2012 – Current

- To lead ScoliCare in its mission “to pioneer & deliver the world’s best scoliosis treatment through innovation, education and patient-centred care.”
- Engage with stakeholders via education and collaboration
- Drive research projects internally and with stakeholders
- Oversee custom ScoliBrace design and manufacturing process

### ScoliCare Clinics – Sydney (South), Sydney (North), Melbourne, Brisbane and Adelaide

*Clinical Director*

September 2013 – Current

- Continue to grow the ScoliCare Clinics Group and affiliates in Australia and around the world
- Management of clinic group performance
- Oversight of multidisciplinary team
- Case consultant on complex spinal deformity cases

### The Sydney Scoliosis Clinic

*Head Clinician*

September 2010 – 2017

- Coordination of multidisciplinary team
- Case Management of spinal deformity cases (Scoliosis and Kyphosis)
- Clinic management

## **St George Private Hospital, Spine Service and Special Spinal Rehab Unit**

*Non-Operative Scoliosis Clinician*

August 2011 – 2016

- Head of non-surgical team
- Triage of patients to surgical vs non-surgical treatment
- Provider of Custom Orthopaedic scoliosis bracing
- Management of spinal rehabilitation programs

## **London Scoliosis Clinic**

*Clinic Director and Scoliosis Bracing and Rehabilitation Clinician*

July 2007 – August 2010

- Consultations and assessments for conservative scoliosis management
- Coordination of multidisciplinary team
- Provider of dynamic SpineCor scoliosis bracing
- Management of spinal rehabilitation programs

## **The Spine Corporation UK**

*Research and Development Manager*

January 2008 – August 2010

- Coordinator of international research projects
- Research into adult scoliosis and development of adult scoliosis treatment protocols
- Research into low dose x-ray systems for scoliosis monitoring
- International instructor for SpineCor Scoliosis Bracing and Physical therapy system

## **Scientific Reviewer and Professional Committee Positions**

### **The European Spine Journal**

- Associate Editorial Board (current)

### **The European Spine Journal**

- Scientific manuscript reviewer (current)

### **Society on Spinal Orthopaedic and Rehabilitation Treatment (SOSORT)**

- Scientific committee member and annual conference manuscript reviewer (current)

### **Society on Spinal Orthopaedic and Rehabilitation Treatment (SOSORT)**

- Scientific Committee (current)

## **American Journal of Orthotics & Prosthetics**

- Scientific Reviewer (current)

## **Practising Chiropractors' Committee on Radiology Protocols**

- International Panel Expert (2006)

## **Qualifications**

### **Tertiary**

- Harvard Business School - HBX Entrepreneurship Essentials (2018)
- Inaugural World Masters Course on Scoliosis Management- ISICO, Milan, Italy (2016)
- Masters of Pain Medicine, M. Pain Med – Newcastle University, Australia (2009)
- Masters of Chiropractic, M. Chiro – Macquarie University, Australia (2001)
- Bachelor of Science, B.Sc. – Macquarie University, Australia (1999)
- Diploma of Budo Studies – Int. Budo University, Chiba, Japan (1997)

### **Professional**

- Faculty for the World Masters Course on Scoliosis Management – ISICO, Milan, Italy (Current)
- Harvard T.H. Chan School of Public Health - ICCR Conference Presenter and Panellist (2022)
- ScoliBrace Head Trainer (2013 - Current)
- ScoliBalance (Physiotherapeutic scoliosis-specific exercises course) Level 1&2 Instructor (2022)
- Harvard Business School Online - Entrepreneurship Essentials (2018)
- First person globally to attain Level 3 accreditation in Scientific Exercise Approach to Scoliosis (SEAS) (January 2015)
- BSPTS SCHROTH trained
- Assistant to Instructors – First Level Course, Scientific Exercise Approach to Scoliosis - Hong Kong Chiropractic College Foundation (2014)
- Accredited Sforzesco TLSO Brace Provider – ISICO, Milan, Italy (2012)
- Accredited Cheneau TLSO Brace Provider – BUFA, Dortmund, Germany (2012)
- Accredited Scientific Exercise Approach to Scoliosis (SEAS) Therapist –Adv (2012) Basic (2011)
- Accredited SpineCor Scoliosis Bracing & Physiotherapy Instructor, The Spine Corporation, UK (2008)
- Accredited Chiropractic Biophysics Instructor, CBP, USA (2008)
- Accredited Neuromechanical Instrument Adjusting Instructor, USA (2006)
- Accredited SpineCor Scoliosis Bracing Clinician, The Spine Corporation, UK (2005)

## **Professional Memberships**

- International Society on Scoliosis Orthopaedic and Rehabilitation Treatment (SOSORT) (Active Member)
- The Spine Society of Australia (SSA), Associate Member (2011 – current)

- Australian Chiropractic Board Registered (2010 – current)
- Chiropractic Association of Australia (2000 – current)
- The American Academy of Orthotists and Prosthetists (AAOP), Professional Member (2013 – Current)
- The Royal Society of Medicine (RSM) UK, Associate Member (2008 – current)
- United Chiropractic Association UK (2003 – 2010)
- Governor of The Sydney College of Chiropractic & Osteopathy (2003 – current)

## Published Research

### 2022

- *Novel Screening Tool for Adolescent Idiopathic Scoliosis: A Reliability Study*
- *The classification of scoliosis braces developed by SOSORT with SRS, ISPO, and POSNA and approved by ESPRM*
- *Treatment of infantile idiopathic scoliosis using a novel thoracolumbosacral orthosis: a case report*

### 2020

- The prevalence of adult de novo scoliosis: A systematic review and meta-analysis 2020
- A systematic literature review of spinal brace/orthosis treatment for adults with scoliosis between 1967 and 2018: clinical outcomes and harms data

### 2019

- Does nanoscale porous titanium coating increase lumbar spinal stiffness of an interbody fusion cage? An in vivo biomechanical analysis in an ovine model
- Reduction of Scheuermann's deformity and scoliosis using ScoliBrace and a scoliosis specific rehabilitation program: a case report

### 2017

- On Cobb angles, flexibility, and lumbar strength measurements

### 2005

- Determining the relationship between cervical lordosis and neck complaints

## Research Presentations

### SOSORT Meeting – Melbourne 2023

#### ScoliCare Hosted at Spine Week

- *Differences in Low Back Pain in Adults With and Without Scoliosis: A Systematic Review*
- *The Impact of Pregnancy on Women with Adolescent Idiopathic Scoliosis: A Systematic Literature Review - Nominated for a SOSORT Award*

- *Compliance Strategies in the Use of ScoliBrace for Adolescent Idiopathic Scoliosis*

### **SOSORT Meeting – San Sebastian 2022**

#### **Poster presentations:**

- *The Evidence of Braces for ASD, who can benefit, and the biomechanics of bracing for ASD*
- *ASD treatment case studies by members representing PSSE schools that have evidence and -Standardised presentations describing assessment, clinical decision making process and treatment*

### **SOSORT Meeting – eSOSORT 2021**

#### **Poster presentations:**

- *The Characteristics of scoliosis patients submitted to a clinical review service from primary care clinics in Australia between 2018 and 2021 [Jeb McAviney, Benjamin T. Brown, Juan Du Plessis, Azharuddin Fazalbhoy, Sean Candler, Justine Carson, William Vuong, Robert Cheung, Alex Boakes; Roger Engel ]*

### **SOSORT Meeting – eSOSORT 2020**

#### **Poster presentations:**

- *The Characteristics of patients who attended two primary care spine care clinics in Australia from 2018 - 2019.*
- *The treatment of infantile idiopathic scoliosis using the ScoliBrace thoracolumbar orthosis: a case series.*
- *The management of hyper-kyphosis using the KyphoBrace orthosis in adolescent patients: a case series.*
- *Is the ScoliBrace effective in the treatment of adolescent idiopathic scoliosis? Early results at 9 months.*
- *The management of an adult male with hyper-kyphosis using a rigid thoracolumbosacral orthosis (KyphoBrace) and Chiropractic Biophysics approach.*

### **SOSORT Meeting – San Francisco 2019**

#### **Poster presentations:**

- *The prevalence of adult de novo scoliosis: A systematic review and meta-analysis [Dr Jeb McAviney, Dr Carrie Roberts, Dr Bryony Sullivan, Dr Alex, Dr Petra L. Graham, Dr Benjamin T Brown]*
- *A systematic literature review of bracing for adult scoliosis [Dr Jeb McAviney, Ms Johanna Mee , Dr Azharuddin Fazalbhoy, Dr Juan Du Plessis, Dr Benjamin T Brown]*

#### **Accepted posters:**

- *Successful multi-modal treatment of severe adolescent idiopathic scoliosis after failing standard TLSO bracing [Dr Tony Nalda, Dr Benjamin T Brown, Dr Jeb McAviney]*
- *Treatment of degenerative adult scoliosis using a unique 3D over-corrective brace – A case report [Dr Mike Underhill, Dr Benjamin Brown, Dr Jeb McAviney]*
- *Reduction of a severe scoliosis using an over-corrective rigid ScoliBrace orthosis in an adolescent female [Dr Jeb McAviney, Dr Benjamin Brown]*

### **Spine Society Annual Scientific Meeting – Gold Coast 2019**

#### **Poster presentations:**

- *Successful multi-modal treatment of severe adolescent idiopathic scoliosis after failing standard TLSO bracing* [Dr Tony Nalda, Dr Benjamin T Brown, Dr Jeb McAviney]
- *Treatment of degenerative adult scoliosis using a unique 3D over-corrective brace – A case report* [Dr Mike Underhill, Dr Benjamin Brown, Dr Jeb McAviney]

#### **Accepted posters:**

- *Reduction of a severe scoliosis using an over-corrective rigid Scolibrace orthosis in an adolescent female* [Dr Jeb McAviney, Dr Benjamin Brown]
- *The prevalence of adult de novo scoliosis: A systematic review and meta-analysis* [Dr Jeb McAviney, Dr Carrie Roberts, Dr Bryony Sullivan, Dr Alex, Dr Petra L. Graham, Dr Benjamin T Brown]
- *A systematic literature review of bracing for adult scoliosis* [Dr Jeb McAviney, Ms Johanna Mee, Dr Azharuddin Fazalbhoy, Dr Juan Du Plessis, Dr Benjamin T Brown]

#### **Specialised kyphosis bracing in combination with exercise rehabilitation can reduce the magnitude of curves and symptoms in patients presenting with adult kypho-scoliosis**

Co-Author - J. Phys. Ther. Sci. 31: 159–165, 2019 doi: 10.1589/jpts.31.159

#### **SOSORT Meeting - Dubrovnik 2018 & Spine Society Annual Scientific Meeting – Adelaide 2018**

##### **Poster presentation:**

*Resolution of an Infantile Idiopathic Scoliosis using a Scolibrace Orthosis: A Case Report* [Dr Jeb McAviney, Dr Benjamin Brown]

#### **SOSORT Meeting - Lyon 2017**

##### **Poster presentation:**

- *Improvement of trunk muscle endurance in Adolescent Idiopathic Scoliosis (AIS) patients undergoing Custom Scoliosis Bracing and Scientific Exercise Approach to Scoliosis (SEAS) treatment.* [McAviney J., Lewis S., Vitucci A., Morris M., Du Plessis J.]
- *Correcting a large thoracic adolescent idiopathic scoliosis (AIS) using the 3D Scolibrace approach and scoliosis specific rehabilitation: a case study* [Dr Bradley Gage, Dr Jeb McAviney, Dr Firoz Miyanji and Dr. Arvinder Ghag]
- *Treating a Kypho- Scoliosis in a young adult using the Kypho-Scolibrace and scoliosis specific rehabilitation : a case study* [Dr Christopher Gubbels and Dr Jeb McAviney]

#### **DC2017 - Washington 2017**

##### **Accepted Poster:**

- *Correcting thoracolumbar adolescent idiopathic scoliosis using a new 3D bracing approach: a case study.*

#### **NASSIS MISS – Singapore 2016**

##### **Oral Presentation:**

- *Scoliosis correction in large AIS curves using a novel 3D Over-Corrective Scolibrace: A Case Series*

#### **SpineWeek – Singapore 2016**

##### **Poster Presentations:**

- *An in vivo biomechanical analysis of the effects of nanoscale porous titanium cage coating in lumbar vertebral interbody fusion*
- *Does an Interbody Fusion Cage with Nanoscale Porous Titanium coating Increase Spinal Segmental Stiffness? An in vivo biomechanical analysis in an ovine model*

### **World Federation of Chiropractic - Athens 2015**

#### **Poster presentation:**

- *Scoliosis correction in AIS - Chiropractic vs. ScoliBrace*

### **Chiropractic treatment of scoliosis; a systematic review of the scientific literature 2013**

Author - Scoliosis Journal 2013, 8(Suppl 1):O15 doi:10.1186/1748-7161-8-S1-O15

### **Treating adult scoliosis and back pain with the SpineCor Pain Relief Back Brace 2009**

Author - Scoliosis Journal 2009, 4(Suppl 2):O67 doi:10.1186/1748-7161-4-S2-O67

### **Determining the Relationship Between Cervical Lordosis and Neck Complaints March 2005**

Lead author on paper - The Journal of Manipulative Physiological Therapies, (JMPT)

Volume 28, Issue 3, Pages 187-193

## **Presentations**

### **2023**

- **ScoliBalance Certification Training - Head Trainer**
  - Brisbane: Level 1 (Basic) - March
  - Sydney: Level 2 (Advanced) - February
  - Jakarta: Level 1 & 2 (Basic & Advanced)- February
  - Naples: Level 1 (Basic) - February
- **Macquarie University Australia (Lecturer CHIR8104 - Clinical Chiropractic 4) - Topic Adult Scoliosis Assessment and Management**

### **2022**

- **ScoliCare Symposium** - December
  - Sagittal Balance and Scoliosis: An update
  - Panel discussion: Surgery or No Surgery in a Juvenile Case
- **SOSORT Webinar: Adult bracing October 2022**
- **SOSORT Education Day, speaker and panellist on Adult scoliosis bracing** - May 2022 San Sebastian
- **ScoliCare London Seminar** - Non-Surgical Scoliosis Treatment - An Update - May
  - Pain & Adult Scoliosis
  - Bracing as a scoliosis treatment: The latest developments
  - Assessing skeletal growth in children with scoliosis
- **CBP Annual** - Advanced Bracing Training: May
- **ScoliBalance Certification Training - Head Trainer**
  - Sydney: Level 1 (Basic)

- Bali: Level 1 (Basic)
- Boise: Level 1 (Basic)
- **Macquarie University Australia (Lecturer CHIR8104 - Clinical Chiropractic 4)** - Topic Adult Scoliosis Assessment and Management

## **2021**

- **ICCR Conference - Spine Panel**: The challenges of conducting research into spinal deformities as an allied health practitioner in private practice. December
- **ScoliCare Symposium** - Complex Management of Scoliosis - December
- **Kids Summit** - Scoliosis and Kids August
- **CBP Annual USA** - Advanced Bracing Training: June
- **Macquarie University Australia (Lecturer CHIR8104 - Clinical Chiropractic 4)** - Topic Adult Scoliosis Assessment and Management

## **2020**

- **ScoliCare Symposium**: New ways to Assess Scoliosis Progression Risk in Children: November
- **CBP Annual**: The treatment of infantile idiopathic scoliosis using the ScoliBrace thoracolumbosacral orthosis: October
- **CBP Utah**: Advanced Bracing Training: August
- **Australian Chiropractic Association (ACA) Online conferences**: July
  - Week 1 – Scoliosis Updates-what's new in assessments and screening
  - Week 2 – Adult Scoliosis
  - Week 3 – Idiopathic Scoliosis in Children
  - Week 4 – Improving Scoliosis Care in your clinic
- **Speaker at Indonesian Brace Provider Clinics**: Essentials of Effective Scoliosis Management - Bali: January
- **Macquarie University Australia (Lecturer CHIR8104 - Clinical Chiropractic 4)** - Topic Adult Scoliosis Assessment and Management

## **2019**

- **Speaker at the Edinburgh Lectures** – Edinburgh (June) – *The 5 things Chiropractors need to know about the clinical management of scoliosis*
- **Presenter at ScoliCare 'Getting Ahead of the Curve' seminar** – San Diego (May)
- **Speaker at MAC Annual** – Kalamazoo, Michigan (April) - *Essential of Scoliosis and Kyphosis Management*
- **Presenter at SOSORT 2019** – San Francisco (April) – Poster presentation
- **Speaker at Fitcon Expo** - Salt Lake City, Utah (April) - *Understanding the impact scoliosis has on adolescent and adult athletes, and how to manage it*
- **Presenter at Spine Society Annual Scientific Meeting** – Gold Coast, Australia (April) – Poster presentations

## **2018**

- **Speaker at COCSA: Congress of Chiropractic State Associations** – Austin, Texas (November) - *Educating Leaders in Scoliosis Management*
- **Speaker at ScoliCare 'Scoliosis Awareness Month Lectures'** - Malaysia (KL) & Singapore (June)



- **Speaker at Scoliosis Bracing Seminar** - Eagle, Idaho (February), (June), (November)
- **Presenter at Scoliosis Seminar at NIKE Headquarters** – Portland (June)
- **Presenter at ScoliCare ‘Getting Ahead of the Curve’ seminar** - Melbourne (March), Brisbane (June), Sydney (August), Portland (October), Phoenix (October)
- **Presenter at SOSORT 2018** – Dubrovnik, Croatia (May) – Poster presentation
- **Presenter at Spine Society Annual Scientific Meeting** – Adelaide, Australia (May) – Poster presentation

## 2017

- **Presenter at Sports Medicine Australia Conference** – Kangaroo Valley (February) - *Adolescent Scoliosis and Sport*
- **Facilitator and Presenter at DC2017 Workshop** - Washington DC (March) - *Essentials of Effective Scoliosis Management*
- **Speaker at Advanced Scoliosis Bracing Seminar** – Florida (March)
- **Presenter at SOSORT 2017** – Lyon, France (May) – Poster presentation
- **Speaker at Scoliosis Bracing Seminar** - Eagle, Idaho (June)
- **Presenter at ScoliCare Essentials of Effective Scoliosis Management Seminar** - Melbourne (June), Brisbane (July), Sydney (August)
- **Keynote Speaker at CBP Annual Conference** – Arizona (October)
- **ScoliRoll & Denneroll training** - Melbourne & Sydney (October)
- **Presenter at CAA Conference** – Canberra (October)- *Managing the degenerative spine*

## 2016

- **Speaker at CAA NSW Annual Seminar Weekend** - Sydney (March) - *Scoliosis Co-Management: Bridging the gap between chiropractic and surgical*
- **Speaker at State-of-the-art Approaches to Conservative Spine Care** - Singapore (May)
- **Presenter at SOSORT 2016** - Banff, Canada (May) - *How to do a Literature Review*
- **Presenter at ScoliCare Essentials of Effective Scoliosis Management Seminar** - Brisbane (April), Adelaide (June), Melbourne (June), Sydney (July)
- **Presented Advanced Scoliosis Bracing Seminar** – Boise, Idaho (June)
- **Presenter at NASISS MISS 2016** - Indonesia (September) – Poster presentation
- **Presenter at CAA Annual Conference** - Cairns (October) - *Literature searches for Researchers and Clinicians*
- **Keynote Speaker at CBP Annual Conference** – Arizona (October)

## 2015

- **Speaker at Scoliosis Bracing Seminar** - New Jersey USA (February)
- **Main Presenter at Essentials of Effective Scoliosis Management & ScoliRoll training** - Melbourne (April), Adelaide (July), KL, Malaysia (May), Perth (August), Toronto, Canada (June), Sydney (June), Brisbane (June)
- **Speaker at Advanced Scoliosis Bracing Seminar** - Boise, Idaho (June)
- **Keynote Speaker at CBP 37th Annual Conference** - Scottsdale, AZ (October)

## 2014

- **Chiropractic Association Australia Mid Year Meeting Keynote Speaker – Sydney (February) - *Never Miss or Misdiagnose a Scoliosis Again***
- **Speaker at Scoliosis Bracing Seminar - Eagle, Idaho (March)**
- **Main Presenter at Essentials of Effective Scoliosis Management & ScoliRoll training - Melbourne (March), Sydney (June), Perth (October)**
- **Speaker at Scoliosis Bracing Seminar - Eagle, Idaho (November)**

## **2013**

- **International Society for the Study of the Lumbar Spine (ISSLS) Poster presentation - Scottsdale, Arizona (May) – Poster presentation**
- **Speaker at Australian Spinal Research Foundation Dynamic Growth Experience – Sydney (October), Melbourne (August)**
- **Chiropractor’s Association of Australia National Conference Oral presentation - Sydney (October)**
  - *Never Miss or Misdiagnose a Scoliosis Again & Scoliosis Management from Infant to Adult*
- **Speaker at Neuromechanical Innovations Seminar - Adelaide (December)**

*Presentations from previous years available at [jebmcaviney.com](http://jebmcaviney.com)*

## **Awards**

- **2022 CBP Chiropractor of year**
- **2021 Research Review CBP**
- **2014 Honorary Taekwondo Black Belt awarded**
- **2013 Macquarie University Sporting Hall of Fame**
- **1997 Judo 2nd Dan Black Belt**
- **1994 NSW State Government – Award for Public Service during the 1994 Bushfires**