

# Lali Sekhon, MD, PhD, MBA

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Accomplished and Trusted Physician, Business Developer, Researcher, Educator, Lecturer, Industry Expert, and Inventor. Leader and Philanthropist in the Reno community.

## EDUCATION

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<b>MD</b>	Bachelor of Medicine, Bachelor of Surgery <i>University of Sydney – Sydney, Australia</i> <i>Graduated with Honors Class I</i>	February 1989
	Sub internship – Neurology and Neurosurgery <i>Yale New Haven Hospital – Connecticut</i>	
	Clinical Rotation – Pediatric Neurosurgery <i>Royal Alexandra Hospital for Children – Sydney Australia</i>	
	Neurosurgery Internship and Residency <i>Sydney, Australia</i>	Jan 1989 – Jul 1998
	Neurosurgery Fellow <i>Mayo Clinic – Rochester, MN</i>	Jul 1998 – Sep 1999
	Neurosurgery Fellow – Orthopedic/Neurosurgical Spine <i>Toronto Western Hospital – Toronto, Ontario, Canada</i>	Oct 1999- Jul 2000
<b>PhD</b>	University of Sydney – Sydney, Australia Dissertation: “ <i>The effects of chronic cerebral hypoperfusion associated with arteriovenous malformations</i> ”	December 1994
<b>MBA</b>	University of Nevada – Reno, NV <i>Outstanding Graduate Student Award</i> <i>Beta Gamma Sigma</i> <i>Student Ambassador</i>	Sept 2018 - 20

## MEDICAL LICENSURE AND QUALIFICATIONS

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• Nevada State Medical Board (11378)	2005
• California State Medical Board (A-91029)	2005
• MD (Honours Class I)	1989
• Ph.D.	1994
• FRACS	1999
• FACS	2007
• FAANS	2010

- MBA (ΒΓΣ) 2020
- M.D. (Honours Class I) 1989

## HONORS AND AWARDS

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### UNDERGRADUATE

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- Dun Prize for Surgery and Clinical Surgery 1988
- Sydney B. Clipsham Prize for Operative Surgery 1989

### POSTGRADUATE

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- Cecil and Beryle Whitmont Research Fellowship 1991
- National Health & Medical Research Council  
Postgraduate Research Scholarship 1991
- Royal Australian College of Surgeons Foundation Research Grant 1991
- Cockburn Foundation Research Scholarship 1991
- John Brook Moore Scholarship in Surgery 1991
- National Health & Medical Research Council  
Postgraduate Research Scholarship 1993

### POSTDOCTORAL

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- Peter Leech Prize 1995
- Douglas Bills Memorial Prize 1996
- Douglas Bills Memorial Prize 1997
- Thomas & Mary Ethel Ewing Traveling Fellowship 1997
- World Federation of Neurosurgeons  
*Young Neurosurgeons Award* 1997
- FRACS Examination Part 2 1998  
*First overall ranking in all subspecialities including neurosurgery  
in the Fellowship of the Royal Australasian College of Surgeon (F.R.A.C.S.)  
Part 2 examinations*

### POST RESIDENCY

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- Thomas & Mary Ethel Ewing Traveling Fellowship 1998
- Sofamor Danek International Scholarship 1998
- Sofamor Danek International Scholarship 1999
- 2000 Outstanding Clinical Research Award 2000  
*28<sup>th</sup> Annual Meeting of the Cervical Spine Research Society,  
November 30<sup>th</sup>-December 3<sup>rd</sup>, 2000, Charleston, North Carolina, U.S.A.,*

*for the paper entitled “Molecular mechanisms of cell death in human cervical spondylotic myelopathy: evidence for apoptosis, death receptor expression and Caspase 3 activation.”*

- AMA Physician's Recognition Award with Commendation 2006 &2009
- Inducted as a Fellow of the American College of Surgeons 2007
- 'Patients' Choice' Award by MDx Medical Inc., 2009-2013
- Best Doctors in America Award 2009-2011
- Newsweek's 15 Leaders in Neurosurgery 2012
- Best of Reno Awards in the Orthopedics Physicians category 2012
- "Becker's 60 Spine Inventors to Know"<http://tinyurl.com/d3rcc6s> 2012
- Most Compassionate Doctor Award 2011-18
- ThinkFirst Sponsoring Physician of the Year 2013
- HealthTap's Top Neurosurgeon in Nevada Award 2013
- Nevada Medical Marvels list from NevadaBusiness Magazine 2013
- ThinkFirst of Northern Nevada Helmet Hero 2015
- Founding Member, Academy of Surgical Educators 2015
- Top Doctors in America 2012-21
- Top Doctor's in America 5-year Award 2016
- Top Doctor's in America 10-year Award 2021
- Three Best Rated, Top 3 Neurosurgeons, Reno NV 2022

#### MASTER OF BUSINESS ADMINISTRATION

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- Beta Gamma Sigma Fraternity 2020  
*Lifetime member of Beta Gamma Sigma*  
*BGS has chapters at only the top 5% of business programs*  
*and only the top performing scholars from those programs are invited*
- Outstanding Graduate Student Award 2020  
*EMBA, University of Nevada, Scholl of Business*
- Ethical Leadership Certification Program Completed 2021  
*NASBA Center for the Public Trust and Beta Gamma Sigma*

#### APPOINTMENTS

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- Reno Orthopaedic Center 2019 - present  
*Partner and Neurosurgeon*  
*Board of Directors*
- Washoe County Medical Society 2023-current  
*Director*
- American College of Healthcare Executives (ACHE) 2022-current  
*Member*
- American Association for Physician Leadership (AAPL) 2022-current

## Member

- University of Nevada School of Medicine, Reno 2006 - present  
*Clinical Associate Professor*  
*Department of Physiology & Cell Biology*
- Think First of Northern Nevada 2011 – present  
*Founder and President*
- Spine Point, LLC 2017 – present  
*Founder and President*
- Renown Regional Medical Center 2016-2022  
*Chief of Spine Surgery*  
*Chief of Neurosurgery*  
*Subspecialties Representative*
- Northern Nevada Medical Center 2015 – 2018  
*Peer Review Committee (current)*  
*Orthopaedic and Neurosurgery Co-Management Committee*  
*Founding partner*
- Nevada Neurosurgery 2010 – 2021  
*Founder and President*
- AO Spine Northern Nevada 2016-2021  
*Chairman of Community Development Committee*  
*Audit Committee*  
*Social Media Sub-Committee*
- AO Spine International 2019- 2021  
*Social Media Sub-Committee*
- SpineNevada 2005 - 2010  
*Partner*
- Sierra Neurosurgery Group 2013- 2018  
*Partner*
- Kinetic Spine Technologies 2004 – 2017  
*Treasurer*
- Neurosurgery Royal North Shore Hospital 2000-2005  
*University of Sydney*  
*Associate Professor*

## MEMBERSHIPS

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- American College Surgeons
- The University of Sydney Medical Society
- The North American University of Sydney Society
- The Neurosurgical Society of Australasia
- The North American Spine Society
- Congress of Neurological Surgeons
- Joint Section AANS / CNS Spine & Peripheral Nerve
- Joint Section AANS / CNS Trauma and Critical Care

- The Mayo Alumni Society
- The University of Toronto Alumni Program
- Royal Australasian College of Surgeons
- Spine Trauma Study Group
- American Board of Disability Analysts
- Federation of International College of Surgeons
- American Medical Association
- Washoe County Medical Society
- Nevada State Medical Association
- AO Spine
- American Association of Neurological Surgeons
- American Association of Neurological Surgeons
- ThinkFirst of Northern Nevada
- The Association for Collaborative Spine Research (ACSR)
- Academy of Surgical Educators (ASE)
- Beta Gamma Sigma
- American Association for Physician Leadership (AAPL)
- American College of Healthcare Executives (ACHE- member)

## HOSPITAL APPOINTMENTS

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- Renown Regional Medical Center, Reno, NV, U.S.A.
- Saint Mary's Regional Medical Center, Reno, NV, U.S.A.
- Northern Nevada Medical Center, Sparks, NV, U.S.A.
- Reno Orthopedic Center, Surgery Center, NV, USA

## RESEARCH, EDUCATIONAL, AND TEACHING EXPERIENCE

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### TEACHING POSITIONS/APPOINTMENTS/COMMITTEES

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- *Nevada District #2 Selection Committee on Applicants  
Of the American College of Surgeons*
- Appointed – Academy of Surgical Educators 2016-present
- Appointed – Clinical Associate Professor 2007-present  
*University of Nevada, Reno*
- Medical Executive Committee, Renown Regional Medical Centre
- 2015-present  
*Peer Review Committee  
Northern Nevada Medical Center* 2015-present
- AO Spine Community Development Committee 2011-15
- AO Spine Chairperson Training 2012
- Washoe Medical Society Public Relations Committee 2011-12
- Renown Spine Panel Neurosurgery Representative 2011-15
- Member – Spine Trauma Study Group 2004 - 10

- Undergraduate Lecturer 2007-8  
*Faculty of Medicine*  
*University of Nevada School of Medicine*  
*Dept of Physiology and Cell Biology*  
*University of Nevada, Reno*
- Prestige ST Educator 2007-8
- AO Spine Faculty Member 2006
- Associate Professor, Neurosurgery, Sydney, Australia 2000-05

#### NEUROSURGICAL COURSES ATTENDED

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- Australasian Neurosurgical Society Cerebrovascular Workshop, 5<sup>th</sup>-7<sup>th</sup> March, 1993: Sydney
- Early Management of Severe Trauma (E.M.S.T.), Royal Australasian College of Surgeons, 5<sup>th</sup>-7<sup>th</sup> August, 1994: Royal Prince Alfred Hospital, Sydney
- Cavernous Sinus and Lateral Skull Base Workshop, 24<sup>th</sup>-26<sup>th</sup> July, 1995: The St. Vincent's Hospital, Sydney
- Preoperative Management of Neurotrauma, ANZCA 36<sup>th</sup> Continuing Education Seminar, 11<sup>th</sup> November, 1995, Sydney
- 1996 Cerebral Hemodynamics and Embolism Symposium, with the Basic and Advanced Transcranial Doppler Course, 22<sup>nd</sup>-24<sup>th</sup> January, 1996, Dallas, Texas, U.S.A.
- Pituitary Symposium, May 11<sup>th</sup>-May 12<sup>th</sup>, 1996, Melbourne
- Peripheral Nerve Workshop, 11<sup>th</sup>-13<sup>th</sup> November, 1996, Sydney
- Midas Rex<sup>®</sup> Hands-On Neuro Workshop: Modern Dissection Techniques of Bone, Biometals, and Bioplastics, April 26<sup>th</sup>-27<sup>th</sup>, 1996, Minneapolis, Minnesota, U.S.A.
- Microendoscopic Discectomy Workshop, 2<sup>nd</sup> July, 1997, Sydney
- Postgraduate Neuropathology Course, 15<sup>th</sup> - 18<sup>th</sup> January, 1998, The University of Sydney, Sydney
- Midas Rex<sup>®</sup> Hands-On Neuro Workshop: Modern Dissection Techniques of Bone, Biometals, and Bioplastics, October 31<sup>st</sup>- November 1<sup>st</sup>, 1998, Rochester, Minnesota, U.S.A.
- AO/ASIF Comprehensive Spine Course, March 9<sup>th</sup>- 12<sup>th</sup> 2000, Breckenridge, Colorado, U.S.A.
- Principles and Techniques of Examination and Evaluation of the Peripheral Nervous System, at the American Association of Neurological Surgeons, 2000 Annual Meeting, April 8<sup>th</sup>- April 13<sup>th</sup>, 2000, San Francisco, California, U.S.A.
- Basics of Spinal Stabilization, Fusion and Instrumentation, at the American Association of Neurological Surgeons, 2000 Annual Meeting, April 8<sup>th</sup>- April 13<sup>th</sup>, 2000, San Francisco, California, U.S.A.
- Management of Disorders of the Craniocervical Junction (faculty), as part of the 35<sup>th</sup> Meeting of the Canadian Congress of Neurological Sciences, June 13<sup>th</sup>-17<sup>th</sup>, 2000, Ottawa, Canada
- Bryan Cervical Disc Prosthesis Workshop, April 26<sup>th</sup>, 2001, Perth, Australia
- Bryan Cervical Disc System Workshop (faculty), September 15, 2001, Sydney, Australia
- Prodisc Spine Arthroplasty Course. February 23<sup>rd</sup>-25<sup>th</sup>, 2003, Straubing, Germany
- Maverick Total Disc Replacement Inaugural Training Course. March 22<sup>nd</sup>, 2003, Brisbane, Australia
- Erromed Human Error and Safety Workshop. March 27<sup>th</sup>- 28<sup>th</sup>, 2003, Katoomba, N.S.W., Australia
- Stryker Spine Symposium. May 30<sup>th</sup>- June 1<sup>st</sup>, 2003, Port Stephens, NSW, Australia
- Minimal Access Spinal Surgery. August 30<sup>th</sup>-31<sup>st</sup>, 2003, Brisbane, Qld., Australia
- The 9<sup>th</sup> Advanced Techniques in Cervical Spine Decompression and Stabilisation Course, January 9<sup>th</sup>-11<sup>th</sup>, 2004, St. Louis, MO, U.S.A. (faculty)
- Bryan Disc User Group Meeting, February 28<sup>th</sup>- 29<sup>th</sup>, 2004, Sydney, Australia (Co-chair)
- Risk Management Workshop, Royal Australasian College of Surgeons, July 24<sup>th</sup>, 2004, Sydney, N.S.W., Australia
- Innovations in Spinal Fixation: An Advanced Course, February 26-27<sup>th</sup>, 2005, Memphis, TN,

U.S.A.

- Advanced Cervical Spine Reconstruction Course, June 8, 2006, Las Vegas, U.S.A. (faculty)
- AO ASIF Degenerative Spine Symposium. Principles and Emerging Technology. July 22<sup>nd</sup> –July 23<sup>rd</sup>, 2006, Montreal, Canada (faculty)
- O-Arm System Cadaver Lab/Hot City Meeting, December 2<sup>nd</sup>, 2006, Las Vegas, Nevada
- Prestige Cervical Disc: Core Education Course. March 31<sup>st</sup>, 2007, Memphis TN
- Advanced Cervical Spine Reconstruction Course, June 8, 2007, Las Vegas, U.S.A. (faculty)
- Prestige Cervical Disc Training Course, August 3<sup>rd</sup> and 4<sup>th</sup>, 2007, Denver, CO (chairman)
- Prestige Cervical Disc Training Course, August 17<sup>th</sup> – 18<sup>th</sup>, 2007, Las Vegas, NV, (chairman)
- North American Spine Society: Coding Update 2008, October 22<sup>nd</sup> -23<sup>rd</sup>, 2007, Austin, TX
- Prestige Cervical Disc Training Course, February 9<sup>th</sup>, 2008, Denver, NV, (faculty)
- XLIF and DB2 Training Course, June 21<sup>st</sup> 2008, San Diego, CA
- AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, Sep 5<sup>th</sup>- 7<sup>th</sup>, 2008, Baltimore, Maryland, U.S.A. (faculty)
- Hot Topic in Cervical Treatment Options: Arthroplasty vs. Arthrodesis, September 22, 2008, Orlando, Florida, (faculty)
- Congress of Neurological Surgery 2008 Annual Meeting, September 21<sup>st</sup>, 2008, Orlando, FL, U.S.A.
- North American Spine Society: Section on Motion Technology- Examining the Evidence, October 14<sup>th</sup>, 2008, Toronto, ON, Canada
- North American Spine Society 23<sup>rd</sup> Annual Meeting, October 14<sup>th</sup>- 18<sup>th</sup>, 2008, Toronto, ON, Canada
- Leaders in Spine Series: Clinical Solutions for the Mature and Aging Spine, December 12<sup>th</sup> and 13<sup>th</sup>, 2008, Chicago, IL 2008 (faculty)
- AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, January 16<sup>th</sup>- 18<sup>th</sup>, 2009, Las Vegas, U.S.A. (faculty)
- Cervical Arthroplasty Hot Topics, March 5, 2009, Los Angeles, CA (faculty)
- Prestige Cervical Disc Training Course, March 6<sup>th</sup>, 2009 San Diego (chairman)
- Mast Regional Training (DLIF, Sextant and MIS TLIF) April 18<sup>th</sup>, 2009, Sunnyvale CA
- Cervical Think Tank/Spine Symposium, April 23<sup>rd</sup> and 24<sup>th</sup> 2009, Chicago, IL
- Prestige Cervical Disc Training Course, June 20<sup>th</sup>, 2009, Chicago (chairman)
- Nuvasive Posterior Cervical Workshop, August 1<sup>st</sup>, 2009, San Diego (chairman)
- Medtronic Kyphon Balloon Kyphoplasty Training, Feb 6<sup>th</sup>, 2010, Sunnyvale CA
- Nuvasive Posterior Cervical Workshop, March 5<sup>th</sup>, 2010, San Diego (chairman)
- AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, May 14<sup>th</sup>- 16<sup>th</sup>, 2010, Las Vegas, U.S.A. (faculty)
- Nuvasive Posterior Cervical Workshop, June 25<sup>th</sup>, 2010, San Diego (chairman)
- AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, September 17<sup>th</sup>- 19<sup>th</sup>, 2010, Dallas, U.S.A. (Chairman)
- Congress of Neurological Surgeons 2010 Annual Meeting, October 16-21, 2010, San Francisco, CA
- 2010 CPT Coding Update at the Congress of Neurological Surgeons 2010 Annual Meeting, October 16-21, 2010, San Francisco, CA
- Decision Making Strategies in the Aging Spine, January 28-29<sup>th</sup>, 2011, Scottsdale, AZ
- 27<sup>th</sup> Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, March 9<sup>th</sup>- 12<sup>th</sup>. 2011. Phoenix AZ
- Science + Spine +Management Symposium for Residents and Fellows, April 28<sup>th</sup>- 30<sup>th</sup>, 2011, Miami FL (faculty)
- Nuvasive Posterior Cervical Workshop, June 10, 2011, New Jersey (chairman)

- AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows. Oct 28-29 , 2011, Toronto, Canada
- Nuvasive Posterior Cervical Workshop. November 11, 2011, New Jersey (chairman)
- AO Advanced Techniques of Spinal Resection and Reconstruction (with cadavers) Course, November 18-19, 2011 Las Vegas, NV (faculty)
- Decision Making Strategies in Spine Surgery for the Early Career Surgeon, January 26<sup>th</sup>- 28<sup>th</sup>, 2012, Las Vegas, Nevada (faculty)
- Nuvasive Posterior Cervical Workshop. March 16, 2012, San Diego (chairman)
- AO Spine Training for Chairpersons, July 13-14, 2012, online course July 13-14, 2012 and postcourse July 14-30, 2012, Chicago, IL
- Nuvasive Posterior Cervical Workshop. Sep 14, 2012, San Diego (chairman)
- Catalyst Global Faculty Training. Oct 22<sup>nd</sup>-23<sup>rd</sup>, 2012, Dallas, TX
- North American Spine Society 27<sup>rd</sup> Annual Meeting, October 24<sup>h</sup>- 27<sup>h</sup>, 2012, Dallas, TX, USA
- AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows. January 11<sup>th</sup>- 12<sup>th</sup>, 2013, New Orleans, U.S.A. (Chairman)
- 29<sup>th</sup> Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves. March 6<sup>th</sup>- 9<sup>th</sup>. 2013, Phoenix AZ
- Nuvasive Posterior Cervical Workshop. March 14<sup>th</sup>, 2013, San Diego (chairman)
- Nuvasive Posterior Cervical Workshop. August 16<sup>th</sup>, 2013, New Jersey (chairman)
- Eurospine 2013. Oct 2<sup>nd</sup>- 4<sup>th</sup>, 2013, Liverpool, United Kingdom
- AOSNA Strategic Planning Workshop. Jan 11<sup>th</sup>-12<sup>th</sup>, 2014, Scottsdale, AZ
- Nuvasive Posterior Cervical Workshop. February 28<sup>th</sup>, 2014, San Diego (chairman)
- Prestige LP Faculty Training Program, May 2<sup>nd</sup> and 3<sup>rd</sup>, 2014, Miami FLA
- Decisions in Spine: Early Practice, March 20-21, 2015 in San Diego, CA (chairman)
- 13<sup>th</sup> Annual AOSNA Fellows Forum, April 23<sup>rd</sup>- 25<sup>th</sup>, 2015 Banff Springs, Alberta, Canada (faculty)
- Medtronic Posterior Cervical Workshop. August, 23<sup>rd</sup>, 2015, New Jersey (chairman)
- AO Spine: Controversies in Complex Spine Surgery: A Comprehensive Hands--on Bioskills Course for Fellows, September 10<sup>th</sup>-12<sup>th</sup>, 2014, Tampa FL (Chairman)
- Medtronic Posterior Cervical Workshop. October 24<sup>th</sup>, 2015, Las Vegas (chairman)
- Cervical Spine Research Society Annual Meeting, Dec 2<sup>nd</sup>-5<sup>th</sup>, 2015, San Diego
- One AO Leadership Meeting. February 4<sup>th</sup>-6<sup>th</sup>, 2016, Orlando, Florida
- 14<sup>th</sup> Annual AOSNA Fellows Forum, March 31<sup>st</sup>- April 2<sup>nd</sup>, 2016, Banff Springs, Alberta, Canada (faculty)
- AO North America: Educational Planning Meeting. August 5<sup>th</sup>-7<sup>th</sup>, 2016, Rosemont, Illinois
- AO Spine. Principles and Treatment of Spinal Disorders for Residents. August 19<sup>th</sup>- 20<sup>th</sup>, 2016, Toronto, Canada
- AO Spine. Principles and Treatment of Spinal Disorders for Residents. September 9<sup>th</sup> and 10<sup>th</sup>, 2016, Orlando, FL
- Fundamentals in Posterior Cervical Fixation: Nov 12, 2016, Washington, DC, November 12, 2016 (Chairman)
- Medtronic Decisions in Spine: Fundamentals, Principles, and Techniques, Dec 2-3, 2015, Nashville TN (Co-Chairman)
- AO Spine. Principles and Treatment of Spinal Disorders for Residents. January 13<sup>th</sup> and 14<sup>th</sup>, 2017, Las Vegas, NV
- AOSNA Board & Leadership Retreat, January 19<sup>th</sup>-21<sup>st</sup>, 2017, Scottsdale, AZ
- One AO Leadership Meeting. February 9<sup>th</sup>-11<sup>th</sup>, 2017, Palm Desert, California
- Global Spine Congress. May 3<sup>rd</sup>- 6<sup>th</sup>, Milan, Italy
- AO Spine: Controversies in Complex Spine Surgery: Fellows Course, November 3, 2017, Las



Vegas, NV

- AO Spine: Practice Essentials: Learn How to Be Successful in Today's Changing Healthcare Environment, November 4, 2017, Las Vegas, NV
- One AO Leadership Meeting, February 8<sup>th</sup>--10<sup>th</sup>, 2018, Palm Desert, California
- Global Spine Congress, May 2<sup>nd</sup>- 5<sup>th</sup>, 2018, Singapore
- AO Spine: Principles and Treatment of Spinal Disorders for Residents, August 11<sup>th</sup>- 12<sup>th</sup>, 2018, Las Vegas, Nevada
- AO Spine: Practice Essentials For Fellows (Chairman), September 15, 2018, Las Vegas, NV
- One AO Leadership Meeting, February 8<sup>th</sup>-10<sup>th</sup>, 2019, Palm Desert, California
- 17th Annual AOSNA Fellows Forum, April 28<sup>th</sup>-30<sup>th</sup>, 2019, Banff Springs, Alberta, Canada (faculty)
- Global Spine Congress, May 15<sup>th</sup>- 17<sup>th</sup>, Toronto, Canada
- Congress of Neurological Surgeons Annual Meeting, Oct 19<sup>th</sup>-23<sup>rd</sup>, San Francisco, CA
- AO Spine: Practice Essentials For Fellows (Chairman), Jan 7-28, 2021 (online) Las Vegas, NV
- Global Spine Congress, June 1<sup>st</sup>-4<sup>th</sup>, 2022, Las Vegas, NV

## CONFERENCE PRESENTATIONS

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- February, 1993: "Impaired hippocampal long-term potentiation in the chronic hypoperfusion model of the rat" at the Australian Neuroscience Society 13<sup>th</sup> Annual Meeting, 3<sup>rd</sup>-5<sup>th</sup> February, 1993: Melbourne
- October, 1993: "Altered hippocampal structure and function in the chronic hypoperfusion model of the rat" at the Xth International Congress of Neurological Surgery, 17<sup>th</sup>-22<sup>nd</sup> October, 1993: Acapulco, Mexico
- February, 1994: "Alterations in hippocampal structure in the chronic hypoperfusion model in the rat" at the Australian Neuroscience Society 14<sup>th</sup> Annual Meeting, 2<sup>nd</sup>-4<sup>th</sup> February, 1994: Sydney
- September, 1995: "Chronic cerebral hypoperfusion and impaired neuronal function in the rat" at the Spine Society of Australia and Neurosurgical Society of Australasia Combined Meeting, 16<sup>th</sup>- 24<sup>th</sup> September, 1995, Broome, Western Australia (awarded Peter Leech Prize)
- September, 1996: "Pathological consequences of chronic cerebral hypoperfusion in the rat"; at the Neurosurgical Society of Australasia Meeting, 18<sup>th</sup>-21<sup>st</sup> September, 1996, Cairns, Queensland
- January, 1996: "Alterations in animals behavior in the chronic hypoperfusion model in the rat" at the 1996 Cerebral Hemodynamics and Embolism Symposium, with the Basic and Advanced Transcranial Doppler Course, 22<sup>nd</sup>-24<sup>th</sup> January, 1996, Dallas, Texas, U.S.A.
- January 1996: "Alterations in hippocampal structure in the chronic hypoperfusion model in the rat" (nominated for Cerebrovascular Research Award) at the 1996 Cerebral Hemodynamics and Embolism Symposium, with the Basic and Advanced Transcranial Doppler Course, 22<sup>nd</sup>-24<sup>th</sup> January, 1996, Dallas, Texas, U.S.A.
- April, 1996: "Alterations in animal behavior in the chronic hypoperfusion model in the rat", at the American Association of Neurological Surgeons, 64<sup>th</sup> Annual Meeting, April 27<sup>th</sup>-May 2<sup>nd</sup>, 1996, Minneapolis, Minnesota, U.S.A.
- April, 1996: "Alterations in hippocampal structure in the chronic hypoperfusion model in the rat" at the American Association of Neurological Surgeons, 64<sup>th</sup> Annual Meeting, April 27<sup>th</sup>-May 2<sup>nd</sup>, 1996, Minneapolis, Minnesota, U.S.A.
- April, 1996: "Chronic cerebral hypoperfusion in the rat: temporal delineation of effects" at the American Association of Neurological Surgeons, 64<sup>th</sup> Annual Meeting, April 27<sup>th</sup>-May 2<sup>nd</sup>, 1996, Minneapolis, Minnesota, U.S.A.
- July, 1997: "The effects of chronic cerebral hypoperfusion associated with arteriovenous malformations" (prize-winning paper), " at the XIth International Congress of Neurological Surgery, 6<sup>th</sup>-11<sup>th</sup> July, 1997:

Amsterdam, The Netherlands

- July, 1997: “Defining the role of capillaries in normal perfusion pressure breakthrough and occlusive hyperemia” at the XIth International Congress of Neurological Surgery, 6<sup>th</sup>-11<sup>th</sup> July, 1997: Amsterdam, The Netherlands
- July, 1997: “Delayed neurological deterioration following resection of arteriovenous malformations of the brain” at the XIth International Congress of Neurological Surgery, 6<sup>th</sup>-11<sup>th</sup> July, 1997: Amsterdam, The Netherlands
- September 1997: “The palmtop pilot in neurosurgical practice management” at the Practice Management Workshop, 14<sup>th</sup>-16<sup>th</sup> September, 1997, Jabiru, Kakadu National Park, Northern Territory
- September 1997: “Delayed neurological deterioration following resection of arteriovenous malformations of the brain” at the Neurosurgical Society of Australasia Meeting, 17<sup>th</sup>-20<sup>th</sup> September, 1997, Darwin, Northern Territory
- April, 2000: “Role of apoptosis in neuronal and axonal degeneration in cervical spondylitic myelopathy: an immunohistochemical study of human autopsy cases” at the American Association of Neurological Surgeons, 2000 Annual Meeting, April 8<sup>th</sup>- April 13<sup>th</sup>, 2000, San Francisco, California, U.S.A.
- June, 2000: “Role of apoptosis in neuronal and axonal degeneration in cervical spondylotic myelopathy: an immunohistochemical study of human autopsy cases” at the 35<sup>th</sup> Meeting of the Canadian Congress of Neurological Sciences, 13<sup>th</sup>-17<sup>th</sup> June, 2000, Ottawa, Canada
- September, 2000: “Role of apoptosis in neuronal and axonal degeneration in cervical spondylotic myelopathy: an immunohistochemical study of human autopsy cases” at the Congress of Neurological Surgeons 50th Annual Meeting, September 23<sup>rd</sup>-28<sup>th</sup>, San Antonio, Texas, U.S.A.
- April 2001: “Methylprednisolone in acute spinal cord injury: arguments for its use” at the 12<sup>th</sup> Annual Scientific Meeting of the Spine Society of Australia, April 27<sup>th</sup>, 2001, Perth, Western Australia
- September 2001: “Spinal metastatic disease: posterior vertebrectomy for high thoracic and cervicothoracic metastatic vertebral tumours” at the Breakfast Session on Spinal Metastatic Disease, at the 12th World Congress of Neurological Surgery, September 16<sup>th</sup> -20<sup>th</sup>, 2001, Sydney, Australia
- August, 2002: “Surgical management of spinal injury” at ICRAN 2002: International Conference on Recent Advances on Neurotraumatology, August 1-4, 2002, Bali, Indonesia
- October 2002: “Revisiting cervical myelopathy in the new millenium” at the Kuring-Gai District Medical Association 26<sup>th</sup> Annual Congress, September 29<sup>th</sup> -October 5<sup>th</sup>, 2002, Yeppoon, Qld, Australia
- April, 2003: “Posterior Cervical Decompression And Fusion For Circumferential Spinal Cord Compression: Prospective Review Of 30 Consecutive Cases” at the American Association of Neurological Surgeons, 2003 Annual Meeting, April 28<sup>th</sup>- May 1<sup>st</sup>, 2003, San Diego, California, U.S.A.
- August, 2003: “Posterior Cervical Decompression And Fusion For Circumferential Spinal Cord Compression: Prospective Review Of 43 Consecutive Cases” at World Spine II, August 10<sup>th</sup>-13<sup>th</sup>, 2003, Chicago, Illinois, U.S.A.
- August, 2003: “Lateral Mass Posterior Cervical Fixation: A Prospective Analysis of 612 Consecutive Screws In 95 Patients” at World Spine II, August 10<sup>th</sup>-13<sup>th</sup>, 2003, Chicago, Illinois, U.S.A.
- September 2003: Cervical Spine Symposium: Innovative Technologies- Artificial Cervical Discs: “Indications for Multilevel Cervical Arthroplasty”, September 18<sup>th</sup>-21<sup>st</sup>, 2003, Lake Placid, New York, U.S.A.
- October 2003: “Posterior Cervical Decompression And Fusion For Circumferential Spinal Cord Compression: Prospective Review Of 43 Consecutive Cases” at Congress of Neurological Surgeons Annual Meeting, October 19<sup>th</sup>- 23<sup>rd</sup>, 2003, Denver, Colorado, U.S.A.
- October, 2003: “Lateral Mass Posterior Cervical Fixation: A Prospective Analysis of 612 Consecutive Screws In 95 Patients” at Congress of Neurological Surgeons Annual Meeting, October 19<sup>th</sup>- 23<sup>rd</sup>, 2003, Denver, Colorado, U.S.A.
- October, 2003: “Multilevel Cervical Arthroplasty” at Congress of Neurological Surgeons Annual Meeting, October 19<sup>th</sup>- 23<sup>rd</sup>, 2003, Denver, Colorado, U.S.A.

- November 2003: “Lytic Spondylolisthesis- Who Needs Surgery? Who Doesn’t?” at Elevating Best Practice in Spine- Challenges in Adult Deformity, November 7<sup>th</sup>, 2003, Sydney, Australia
- May, 2004: “Cervical Arthroplasty: Beyond the European and United States FDA Study” at SAS4- Global Symposium on Intervertebral Disc Replacement & Non-Fusion Technology, May 4<sup>th</sup> – 7<sup>th</sup>, 2004, Vienna, Austria
- October 2004: “Present Day Technology of Spinal Arthroplasty: What’s Available Now and in the Near Future” at the Congress of Neurological Surgery 2004 54<sup>th</sup> Annual Meeting, Oct 16<sup>th</sup>- 21<sup>st</sup> , 2004, San Francisco, CA, U.S.A.
- May 2005: “Cervical arthroplasty after previous surgery. Report of 15 cases. ” at the SA5: Spine Arthroplasty Society Global Symposium on Motion Preservation Technology, May 4-7, 2005, New York, NY, U.S.A.
- May 2005: “Post-operative kyphosis and segmental imbalance with the Bryan cervical disc – a study of the incidence and causative factors in 66 patients” at the SA5: Spine Arthroplasty Society Global Symposium on Motion Preservation Technology, May 4-7, 2005, New York, NY, U.S.A.
- June 2005: “Early fixation of spinal fracture: when to cut” at Neurointensive Care: The Road Ahead. Joint Faculty of Intensive Care Medicine in Association with ANZICS 1<sup>ST</sup> ASM, June 10<sup>th</sup>- 12<sup>th</sup>, 2005, Sydney, Australia
- July 2005: “Cervical arthroplasty after previous surgery: report of 15 cases.” Proceeds of 12<sup>th</sup> International Meeting on Advanced Spine Technologies (IMAST), July 7<sup>th</sup>- 9<sup>th</sup>, 2005, Banff, Alberta Canada, 2005
- Sep 2005: “Cervical arthroplasty after previous surgery: report of 15 cases.” Proceeds of the 20<sup>th</sup> Annual Meeting of the North American Spine Society, September 27<sup>th</sup>- October 1<sup>st</sup>, 2005, Philadelphia, PA, U.S.A.
- May 2006: “Revision strategies for Cervical Arthroplasty: results of a multi-surgeon international survey” at the SA5- Global Symposium on Motion Preservation Technology, Montreal Canada, May 9-12, 2006
- June 2006: “Posterior cervical fixation in spinal trauma” at Advanced Cervical Spine Reconstruction Course, June 8, 2006, Las Vegas, U.S.A.
- August 2006: ”Lateral Mass Fixation: Technique” at Surgical Management of the Cervical Spine Course, August 25<sup>th</sup>, 2006, Sydney, Australia
- August 2006: ”Pearls, Tips and Tricks of C1/2 fixation” at the Surgical Management of the Cervical Spine Course, August 25<sup>th</sup>, 2006, Sydney, Australia
- August 2006: ”C7/T1/T2 fixation” at the Surgical Management of the Cervical Spine Course, August 25<sup>th</sup>, 2006, Sydney, Australia
- August 2006: ”Complications of Cervicothoracic Fixation” at the Surgical Management of the Cervical Spine Course, August 25<sup>th</sup>, 2006, Sydney, Australia
- August 2006: ”Complications of Lateral Mass Fixation” at the Surgical Management of the Cervical Spine Course, August 25<sup>th</sup>, 2006, Sydney, Australia
- March 2007: “Cervical Arthroplasty. Metal on Poly: Current Status” at the 23<sup>rd</sup> Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, March 7<sup>th</sup>- 10<sup>th</sup>, 2007, Phoenix, Arizona.
- March 2007: “Motion Preservation Symposium (moderator)” at the 23<sup>rd</sup> Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, March 7<sup>th</sup>- 10<sup>th</sup>, 2007, Phoenix, Arizona.
- March 2007: “Quantitative Assessment of Spinal Canal Compromise and Spinal Cord Compression after Traumatic Cervical Spinal Cord Injury Using Digital Imaging: Results of the Spine Trauma Study Group Reliability Study” at the 23<sup>rd</sup> Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, March 7<sup>th</sup>- 10<sup>th</sup>, 2007, Phoenix, Arizona.
- September 2007: “Engineering Challenges: Biomaterials and wear” at the Congress of Neurological Surgery 2007 Annual Meeting, September 18<sup>th</sup>, 2007, San Diego, CA, U.S.A.

- September 2008: “Cervical Arthroplasty: Biomaterials and wear” at the Congress of Neurological Surgery 2008 Annual Meeting, September 21<sup>st</sup>, 2008, Orlando, FL, U.S.A.
- December 2008: “Patient Selection and Pearls: Arthroplasty versus Fusion” at the Leaders in Spine Series: Clinical Solutions for the Mature and Aging Spine, December 12<sup>th</sup> and 13<sup>th</sup>, 2008, Chicago, IL 2008
- November 2009: “Immediate postoperative complications and radiological features of interbody fusion between INFUSE BMP and Actifuse: A randomized prospective trial” at North American Spine Society 24<sup>th</sup> Annual Meeting, November 10<sup>th</sup>- 14<sup>th</sup>, 2009, San Francisco, CA, 2009
- December, 2009: “Immediate postoperative complications and radiological features of interbody fusion between INFUSE BMP and Actifuse: A randomized prospective trial” at the Cervical Spine Research Society 37<sup>th</sup> Annual Meeting, December 3<sup>rd</sup>- 5<sup>th</sup>, 2009, Salt Lake City, UT
- January 2011: “Challenges in Treating the Aging Spine Patient – How to address poor bone quality. Are treatment options different for Degen vs Deformity patients when selecting implants/constructs? “ at Decision Making Strategies in the Aging Spine, January 28-29<sup>th</sup>, 2011, Scottsdale, AZ
- November 2011: “C2 Fixation Techniques” at AO Advanced Techniques of Spinal Resection and Reconstruction (with cadavers) Course, November 18-19, 2011 Las Vegas, NV
- January 2012: “Distinguishing yourself in the Marketplace” at Decision Making Strategies in Spine Surgery for the Early Career Surgeon, January 26<sup>th</sup>- 28<sup>th</sup>, 2012, Las Vegas, Nevada
- Mar 2015: “Cervical Arthropathy” at Decisions in Spine: Early Practice, March 20-21, 2015 in San Diego, CA
- Sep 2015: “Indications for Cervical Arthroplasty” at AO Spine: Controversies in Complex Spine Surgery: A Comprehensive Hands--on Bioskills Course for Fellows, September 10<sup>th</sup>-12<sup>th</sup>, 2014, Tampa FL
- Jan 2016: “Cervical and Lumbar Arthroplasty: Myths and Reality” at Nevada Academy of Family Physicians 48<sup>th</sup> Annual Meeting, Jan 24<sup>th</sup>, 2016, Lake Tahoe, CA
- March 2016: “Cervical Radiculopathy” at University of Nevada, Kinesiology Course, March 28, 2016
- March 2016: “Raising Your Profile and Growing Your Private Practice”, at the 14th Annual AOSNA Fellows Forum, April 1, 2016, Banff Springs, Alberta, Canada
- August 2016: “Epidural Abscess and Hematogenous Osteomyelitis” at the AO Spine. Principles and Treatment of Spinal Disorders for Residents Course August 19<sup>th</sup>- 20<sup>th</sup>, 2016, Toronto, Canada
- September 16 “Cervical Facet Subluxations” at the AO Spine. Principles and Treatment of Spinal Disorders for Residents, September 9<sup>th</sup> and 10<sup>th</sup>, 2016, Orlando, FL
- September 16 “Myelopathy and Cervical Kyphosis” at the AO Spine. Principles and Treatment of Spinal Disorders for Residents, September 9<sup>th</sup> and 10<sup>th</sup>, 2016, Orlando, FL
- November, 2016: “C1/2 fixation” at the Fundamentals in Posterior Cervical Fixation: Nov 12, 2016, Washington, DC, November 12, 2016 (Chairman)
- Jan 2016: “Lumbar Burst Fractures” at the AO Spine. Principles and Treatment of Spinal Disorders for Residents, January 13<sup>th</sup> and 14<sup>th</sup>, 2017, Las Vegas, NV
- Jan 2016: “Lumbar Spinal Stenosis” at the AO Spine. Principles and Treatment of Spinal Disorders for Residents, January 13<sup>th</sup> and 14<sup>th</sup>, 2017, Las Vegas, NV
- Nov 2017: “CSF Leak Management” at the AO Spine: Controversies in Complex Spine Surgery: Fellows Course, November 3, 2017, Las Vegas, NV
- Nov 2017: “Starting a Practice: How to get the Message Out” at the AO Spine: Practice Essentials: Learn How to Be Successful in Today’s Changing Healthcare Environment, November 4, 2017, Las Vegas, NV
- May 2018: “How to Avoid Litigation” at the Global Spine Congress, May 2<sup>nd</sup>- 5<sup>th</sup>, 2018, Singapore
- May 2018: “T3 burst fracture” at the Global Spine Congress, May 2<sup>nd</sup>- 5<sup>th</sup>, 2018, Singapore
- August 2018: “Occipitocervical Dissociation” at the AO Spine: Principles and Treatment of Spinal Disorders for Residents, August 11<sup>th</sup>- 12<sup>th</sup>, 2018, Las Vegas, Nevada
- August 2018: “Cervical Facet Dislocations” at the AO Spine: Principles and Treatment of Spinal Disorders for Residents, August 11<sup>th</sup>- 12<sup>th</sup>, 2018, Las Vegas, Nevada
- August 2018: “Cervical Stenosis with Myeloradiculopathy” at the AO Spine: Principles and Treatment of Spinal Disorders for Residents, August 11<sup>th</sup>- 12<sup>th</sup>, 2018, Las Vegas, Nevada

- Sep 2018: “Starting a Practice: How to get the Message Out” at the AO Spine: Practice Essentials for Fellows, September 15, 2018, Las Vegas, NV
- Dec 2018: “Imaging of cervical spine injury” at the NASS Arab Spine Course Diploma, December 3<sup>rd</sup>-5<sup>th</sup>, 2018, Dubai, UAE
- Dec 2018: “Imaging of thoracolumbar spine fractures” at the NASS Arab Spine Course Diploma, December 3<sup>rd</sup>-5<sup>th</sup>, 2018, Dubai, UAE
- May 2019: “How to Brand Yourself” at the Global Spine Congress, May 15<sup>th</sup>-17<sup>th</sup>, Toronto, Canada
- Jan 2020: AO Spine North America Board and Leadership Retreat, Phoenix, AZ
- Jan 2021: “Marketing: Online Reputation, Web Design, Social Media” at the AO Spine: Practice Essentials for Fellows, January 7<sup>th</sup>-28<sup>th</sup>. 202 (online).
- Cervical Myelopathy and Radiculopathy” at Orthopaedics for Healthcare Professionals, May 15<sup>th</sup>, 2022, Reno NV
- “How to Brand Yourself/Social Media and Branding; Academic vs. Private Practice” at the Global Spine Congress, June 1<sup>st</sup>-4<sup>th</sup>, 2022, Las Vegas, NV

## INVITED PRESENTATIONS

- July, 1997: “The effects of chronic cerebral hypoperfusion associated with arteriovenous malformations” (prize-winning paper), ” at the XIth International Congress of Neurological Surgery, 6<sup>th</sup>-11<sup>th</sup> July, 1997: Amsterdam, The Netherlands
- August, 1998: “Management of poor-grade subarachnoid hemorrhage patients: an evidence-based study” at the Mayo Clinic Department of Neurological Surgery Grand Rounds, 8<sup>th</sup> August, 1998, Rochester, Minnesota, U.S.A.
- November, 1998: “Delayed neurological deterioration following resection of arteriovenous malformations of the brain” at the Mayo Clinic Department of Neurological Surgery Grand Rounds, 7<sup>th</sup> November, 1998, Rochester, Minnesota, U.S.A.
- February, 1999: “Chronic cerebral hypoperfusion. Part 1: electrophysiology” at the Mayo Clinic Department of Neurological Surgery Grand Rounds, 13<sup>th</sup> February, 1999, Rochester, Minnesota, U.S.A.
- February, 1999: “Chronic cerebral hypoperfusion. Part 2: histopathology and behavior” at the Mayo Clinic Department of Neurological Surgery Grand Rounds, 20<sup>th</sup> February, 1999, Rochester, Minnesota, U.S.A.
- September 1999: “Transcranial doppler: use, misuse and rationale” at the Mayo Clinic Department of Neurological Surgery Grand Rounds, September 4, 1999, Rochester, Minnesota, U.S.A.
- December 1999: “Cervical radiculopathy: surgical considerations” at the Toronto Western Hospital Medical Grand Rounds, December 8, 1999, Toronto, Ontario, Canada
- February, 2000: “Rheumatoid arthritis: neurosurgical aspects” at The 2000 William S. Keith Professorship in Neurosurgery, 15<sup>th</sup> February, 2000, Toronto, Ontario, Canada
- October, 2000: Kuring-Gai District Medical Association RACGP Continuing Education: “Untangling the mysteries of back problems”, October 19, 2000, Sydney, NSW, Australia
- March, 2001: Manly District Medical Association RACGP Continuing Education: “Untangling the mysteries of back problems”, March 15, 2001, Sydney, NSW, Australia
- April 2001: “Methylprednisolone in acute spinal cord injury: arguments for its use”, at the 12<sup>th</sup> Annual Scientific Meeting of the Spine Society of Australia, April 27<sup>th</sup>, 2001, Perth, Western Australia.
- May 2001: Department of General Practice, Dalcross Private Hospital: “Untangling the mysteries of back problems”, May 16, 2001, Sydney, NSW, Australia
- June 2001: Medtronic Sofamor Danek Nurses Spinal Symposium & Workshop: “Management of spinal trauma and tumours”, June 23<sup>rd</sup>, 2001, Sydney, NSW, Australia
- June 2001: Medtronic Sofamor Danek Nurses Spinal Symposium & Workshop: “New technologies and advances in spinal surgery”, June 23<sup>rd</sup>, 2001, Sydney, NSW, Australia
- July 2001: Pittwater Radiology Clinical Meeting: “New technologies in spinal surgery”, July 23<sup>rd</sup>, Sydney, NSW, Australia

- August 2001: “The Surgical Management of Spinal Cord Injury” at the Spine Injury Conference, 31<sup>st</sup> August, 2001, Rex Hotel, Sydney, Australia
- September 2001: “Spinal metastatic disease: posterior vertebrectomy for high thoracic and cervicothoracic metastatic vertebral tumours” at the Breakfast Session on Spinal Metastatic Disease, at the 12th World Congress of Neurological Surgery, September 16<sup>th</sup> -20<sup>th</sup>, 2001, Sydney, Australia
- October 2001: The Northern Sydney Division of General Practice Seminar on Current Trends in Back Surgery, North Shore Private Hospital: “Mysteries of lower back problems and their surgical management”, May 16<sup>th</sup>, 2001, Sydney, NSW, Australia
- February 2002: The Northern Sydney Area Health RNSH ½ Day Trauma Seminar, Royal North Shore Hospital, “Spinal cord injury assessment and management”, February 16<sup>th</sup>, 2002
- April 2002: Medtronic Sofamor Danek Nurses Spinal Symposium & Workshop: “New technologies and advances in spinal surgery”, April 20<sup>th</sup>, 2002, Sydney, NSW, Australia
- August, 2002: “Surgical management of spinal injury” at ICRAN 2002: International Conference on Recent Advances on Neurotraumatology, August 1-4, 2002, Bali, Indonesia
- October 2002: Kuring-Gai District Medical Association 26<sup>th</sup> Annual Congress: “Revisiting cervical myelopathy in the new millenium”, October 1, 2002, Yeppoon, Qld, Australia
- December, 2002: Innovations in Image Guided Surgery. Stealth User Group Meeting: “Fluoroscopic Navigation in Spinal Surgery”, December 8, 2002, Sydney, NSW, Australia
- February, 2003: Tiny Tots Trauma Day: “Paediatric Head and Spinal Injuries”, February 15, 2003, Royal North Shore Hospital, Sydney, NSW, Australia
- May, 2003: Sydney NeuroSpine Clinic GP Seminar: “Unravelling Neck Problems: Pain, discs, myelopathy”, May 5, 2003, Chatswood, NSW, Australia
- May 2003: Seminar on the Management of Major Trauma, Royal North Shore Hospital, “Spinal cord injury assessment and management”, May 17<sup>th</sup>, 2003
- August 2003: Minimal Access Spinal Surgery: “MAST Applications to Trauma”, August 31<sup>st</sup>, 2003, Brisbane, Qld., Australia
- September 2003: Cervical Spine Symposium: Innovative Technologies- Artificial Cervical Discs: “Indications for Multilevel Cervical Arthroplasty”, September 18<sup>th</sup>-21<sup>st</sup>, 2003, Lake Placid, New York, U.S.A.
- October 2003: Arthroplasty Seminar, 20<sup>th</sup> October, 2003, Congress of Neurological Surgeons Annual Meeting, Denver, CO, U.S.A.
- November 2003: “Lytic Spondylolsthesis- Who Needs Surgery? Who Doesn’t? at Elevating Best Practice in Spine- Challenges in Adult Deformity, November 7<sup>th</sup>, 2003, Sydney, Australia
- November 2003: “Cervical Arthroplasty” at Innovations & Excellence in Spinal Surgery”, November 22<sup>nd</sup>, 2003, Sydney, Australia
- November 2003: “MAST Fusion” at Innovations & Excellence in Spinal Surgery”, November 22<sup>nd</sup>, 2003, Sydney, Australia
- November 2003: “Image-Guided Spine Surgery” at Innovations & Excellence in Spinal Surgery”, November 22<sup>nd</sup>, 2003, Sydney, Australia
- November, 2003: “Arthroplasty for Cervical Spine Disorders” at the 33<sup>rd</sup> ASM of the Australian Association of Musculoskeletal Medicine, November 29<sup>th</sup>, 2003, Sydney, Australia
- November, 2003: Tiny Tots Trauma Day: “Paediatric Head and Spinal Injuries”, November 29<sup>th</sup>, 2003, Royal North Shore Hospital, Sydney, NSW, Australia
- January 2004: The 9<sup>th</sup> Advanced Techniques in Cervical Spine Decompression and Stabilisation Course: “The Future: Artificial Disc Replacement”, January 9<sup>th</sup>-11<sup>th</sup>, 2004, St. Louis, MO, U.S.A.
- October 2004: Congress of Neurological Surgery 2 54<sup>th</sup> Annual Meeting: “Present Day Technology of Spinal Arthroplasty: What’s Available Now and in the Near Future”, October 16<sup>th</sup>- 21<sup>st</sup>, 2004, San Francisco, CA, U.S.A.
- May 2005: “Cervical arthroplasty after previous surgery. Report of 15 cases. ” at the International Bryan Cervical Disc User Group Meeting. May 4, 2005, New York, NY, U.S.A.

- May 2005: “Post-operative kyphosis and segmental imbalance with the Bryan cervical disc – a study of the incidence and causative factors in 66 patients” at the International Bryan Cervical Disc User Group Meeting. May 4, 2005, New York, NY, U.S.A.
- June 2005: “Early fixation of spinal fracture: when to cut” at Neurointensive Care: The Road Ahead. Joint Faculty of Intensive Care Medicine in Association with ANZICS 1<sup>st</sup> ASM, June 10<sup>th</sup>- 12<sup>th</sup>, 2005, Sydney, Australia
- September 2005: “Cervical arthroplasty after previous surgery. Report of 15 cases. ” at the North American Spine Society 20<sup>th</sup> Annual Meeting, September 27<sup>th</sup> – October 1<sup>st</sup>, 2005, Philadelphia, PA, U.S.A.
- June 2006: “Posterior cervical fixation in spinal trauma” at Advanced Cervical Spine Reconstruction Course, June 8, 2006, Las Vegas, U.S.A.
- June, 2006: “Surgical and Non-Surgical Treatment for Back Pain Management” at the Washoe Medical Center Grand Rounds, June 13<sup>th</sup>, 2006, Reno, Nevada
- July 2006: “Cervical Disc Arthroplasty” at the AO ASIF Degenerative Spine Symposium. Principles and Emerging Technology. July 22<sup>nd</sup> –July 23<sup>rd</sup>, 2006, Montreal, Canada
- July 2006: “Is there a role for dynamic stabilization?” at the AO ASIF Degenerative Spine Symposium. Principles and Emerging Technology. July 22<sup>nd</sup> –July 23<sup>rd</sup>, 2006, Montreal, Canada
- July 2006: “Arthroplasty Complications” at the AO ASIF Degenerative Spine Symposium. Principles and Emerging Technology. July 22<sup>nd</sup> –July 23<sup>rd</sup>, 2006, Montreal, Canada
- August 2006: ”Lateral Mass Fixation: Technique” at Surgical Management of the Cervical Spine Course, August 25<sup>th</sup>, 2006, Sydney, Australia
- August 2006: ”Pearls, Tips and Tricks of C1/2 fixation” at the Surgical Management of the Cervical Spine Course, August 25<sup>th</sup>, 2006, Sydney, Australia
- August 2006: ”C7/T1/T2 fixation” at the Surgical Management of the Cervical Spine Course, August 25<sup>th</sup>, 2006, Sydney, Australia
- August 2006: ”Complications of Cervicothoracic Fixation” at the Surgical Management of the Cervical Spine Course, August 25<sup>th</sup>, 2006, Sydney, Australia
- August 2006: ”Complications of Lateral Mass Fixation” at the Surgical Management of the Cervical Spine Course, August 25<sup>th</sup>, 2006, Sydney, Australia
- March 2007: “Cervical Arthroplasty. Metal on Poly: Current Status” at the 23<sup>rd</sup> Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, March 7<sup>th</sup>- 10<sup>th</sup>, 2007, Phoenix, Arizona.
- April 2007: “Head Injury” at the University of Nevada, School of Medicine, April 13<sup>th</sup>, 2007, Reno, Nevada
- April 2007: “Spinal Cord Injury” at the University of Nevada, School of Medicine, April 13<sup>th</sup>, 2007, Reno, Nevada
- May 2007: “Update on the Acute Management of Spinal Cord Injury”, May 18<sup>th</sup>, 2007, at the Neurosciences Symposium, Renown Regional Medical Centre, Reno, Nevada
- June 2006: “Circumferential Decompression” at Advanced Cervical Spine Reconstruction Course, June 8, 2007, Las Vegas, U.S.A.
- September 2007: Engineering Challenges: Biomaterials and wear: at the Congress of Neurological Surgery 2007 Annual Meeting, September 18<sup>th</sup>, 2007, San Diego, CA, U.S.A.
- April 2008: “Head Injury” at the University of Nevada, School of Medicine, April 21<sup>st</sup>, 2008, Reno, Nevada
- April 2008: “Spinal Cord Injury” at the University of Nevada, School of Medicine, April 21<sup>st</sup>, 2008, Reno, Nevada
- September 2008: “Spinal Cord Injury”: at the AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, Sep 5<sup>th</sup>- 7<sup>th</sup>, 2008, Baltimore, Maryland, U.S.A.
- September 2008: “TLIF/PLIF”: at the AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, Sep 5<sup>th</sup>- 7<sup>th</sup>, 2008, Baltimore, Maryland, U.S.

- September 2008: “Cervical Arthroplasty: Biomaterials and wear” at the Congress of Neurological Surgery 2008 Annual Meeting, September 21<sup>st</sup>, 2008, Orlando, FL, U.S.A.
- December 2008: “Patient Selection and Pearls: Arthroplasty versus Fusion” at the Leaders in Spine Series: Clinical Solutions for the Mature and Aging Spine, December 12<sup>th</sup> and 13<sup>th</sup>, 2008, Chicago, IL 2008
- January 2009: Operative and Nonoperative Management of Cervical Radiculopathy” at the AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, January 16<sup>th</sup>- 18<sup>th</sup>, 2009, Las Vegas, U.S.A.
- January 2009: Classification/Pathognomics of Cervical Trauma” at the AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, January 16<sup>th</sup>- 18<sup>th</sup>, 2009, Las Vegas, U.S.A.
- May 2010: “Spinal Cord Injury”: at the AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, May 14<sup>th</sup>- 16<sup>th</sup>, 2010, Las Vegas, Nevada, U.S.A.
- May 2010: “Lumbar Arthroplasty”: at the AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, May 14<sup>th</sup>- 16<sup>th</sup>, 2010, Las Vegas, Nevada, U.S.A.
- September 2010: “Spinal Cord Injury” at the AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, September 17<sup>th</sup>- 19<sup>th</sup>, 2010, Dallas, U.S.A. (Chairman)
- September 2010: “Cervical Radiculopathy” at the AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, September 17<sup>th</sup>- 19<sup>th</sup>, 2010, Dallas, U.S.A. (Chairman)
- September 2010; “Lumbar Arthroplasty” at the AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, September 17<sup>th</sup>- 19<sup>th</sup>, 2010, Dallas, U.S.A. (Chairman)
- January 2011: “Challenges in Treating the Aging Spine Patient – How to address poor bone quality. Are treatment options different for Degen vs Deformity patients when selecting implants/constructs? “ at Decision Making Strategies in the Aging Spine, January 28-29<sup>th</sup>, 2011, Scottsdale, Arizona
- April 2011: “Negotiating with Hospitals” at the 79<sup>th</sup> AANS Annual Scientific Meeting, April 9<sup>th</sup>- 13<sup>th</sup>. 2011, Denver Colorado
- May 2011: “Distinguishing Yourself in the Marketplace” at the Science + Spine +Management Symposium for Residents and Fellows, April 28<sup>th</sup>- 30<sup>th</sup>, 2011, Miami FL (faculty)
- May 2007: “Head Injuries- A-Z”, October 4, 2011, at Trauma: The Challenge Symposium, Renown Regional Medical Centre, Reno, Nevada
- November 2011: “C2 Fixation Techniques” at AO Advanced Techniques of Spinal Resection and Reconstruction (with cadavers) Course, November 18-19, 2011 Las Vegas, NV
- January 2012: “Distinguishing yourself in the Marketplace” at Decision Making Strategies in Spine Surgery for the Early Career Surgeon, January 26<sup>th</sup>- 28<sup>th</sup>, 2012, Las Vegas, Nevada
- April 2013: “The ABCs of Calcium and Osteoporosis” at NAPNA meeting, April 9<sup>th</sup>, 2013, Reno, Nevada
- Jan 2015: “Myelopathy” at Nevada Academy of Family Physicians, Tahoe Meeting,
- Mar 2015: “Cervical Arthropathy” at Decisions in Spine: Early Practice , March 20-21, 2015 in San Diego, CA
- Sep 2015: “Indications for Cervical Arthroplasty” at AO Spine: Controversies in Complex Spine Surgery: A Comprehensive Hands--on Bioskills Course for Fellows, September 10<sup>th</sup>-12<sup>th</sup>, 2014, Tampa FL
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- March 2016: “Raising Your Profile and Growing Your Private Practice”, at the 14th Annual AOSNA Fellows Forum, April 1, 2016, Banff Springs, Alberta, Canada
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- September 16 “Cervical Facet Subluxations” at the AO Spine. Principles and Treatment of Spinal Disorders for Residents, September 9<sup>th</sup> and 10<sup>th</sup>, 2016, Orlando, FL
- September 16 “Myelopathy and Cervical Kyphosis” at the AO Spine. Principles and Treatment of Spinal



Disorders for Residents, September 9<sup>th</sup> and 10<sup>th</sup>, 2016, Orlando, FL

- November, 2016: “C1/2 fixation” at the Fundamentals in Posterior Cervical Fixation: Nov 12, 2016, Washington, DC, November 12, 2016 (Chairman)
- Jan 2016: “Lumbar Burst Fractures” at the AO Spine. Principles and Treatment of Spinal Disorders for Residents, January 13<sup>th</sup> and 14<sup>th</sup>, 2017, Las Vegas, NV
- Jan 2016: “Lumbar Spinal Stenosis” at the AO Spine. Principles and Treatment of Spinal Disorders for Residents, January 13<sup>th</sup> and 14<sup>th</sup>, 2017, Las Vegas, NV
- May 2016: “8 Pearls of Practice in North America” at the Members Only Session of the Global Spine Congress, May 3<sup>rd</sup>- 6<sup>th</sup>, Milan, Italy
- Nov 2017: “CSF Leak Management” at the AO Spine: Controversies in Complex Spine Surgery: Fellows Course, November 3, 2017, Las Vegas, NV
- Nov 2017: “Starting a Practice: How to get the Message Out” at the AO Spine: Practice Essentials: Learn How to Be Successful in Today’s Changing Healthcare Environment, November 4, 2017, Las Vegas, NV
- May 2018: “How to Avoid Litigation” at the Global Spine Congress, May 2<sup>nd</sup>- 5<sup>th</sup>, 2018, Singapore
- May 2018: “T3 burst fracture” at the Global Spine Congress, May 2<sup>nd</sup>- 5<sup>th</sup>, 2018, Singapore
- Dec 2018: “Imaging of cervical spine injury” at the NASS Arab Spine Course Diploma, December 3<sup>rd</sup>-5<sup>th</sup>, 2018, Dubai, UAE
- Dec 2018: “Imaging of thoracolumbar spine fractures” at the NASS Arab Spine Course Diploma, December 3<sup>rd</sup>-5<sup>th</sup>, 2018, Dubai, UAE
- May 2019: “How to Brand Yourself” at the Global Spine Congress, May 15<sup>th</sup>- 17<sup>th</sup>, Toronto, Canada
- Jan 2021: “Marketing: Online Reputation, Web Design, Social Media” at the AO Spine: Practice Essentials for Fellows, January 7<sup>th</sup>-28<sup>th</sup>. 202 (online).
- Apr 2021: Guest Speaker at Beta Gamma Sigma Induction Ceremony, April 15<sup>th</sup> 2021 (online)
- Cervical Myelopathy and Radiculopathy” at Orthopaedics for Healthcare Professionals, May 15<sup>th</sup>, 2022, Reno NV
- “How to Brand Yourself/Social Media and Branding; Academic vs. Private Practice” at the Global Spine Congress, June 1<sup>st</sup>-4<sup>th</sup>, 2022, Las Vegas, NV

#### OTHER INVITED ACTIVITIES (COURSES/WORKSHOPS)

- June 2000: Instructor at the Management of Disorders of the Craniocervical Junction Course, at the 35<sup>th</sup> Meeting of the Canadian Congress of Neurological Sciences, 13th June, 2000, Ottawa, Canada
- July 2000: International VIP Visit to Medtronic Sofamor Danek, 17-19<sup>th</sup> July, 2000, Memphis, U.S.A.
- July 2000: Anspach, July 20-22<sup>nd</sup>, 2000, West Palm Beach, U.S.A.
- April 2001: Bryant Cervical Disc Prosthesis Workshop, April 26<sup>th</sup>, 2001, Perth, Australia
- June 2001: Medtronic Sofamor Danek Nurses Spinal Symposium & Workshop, June 23<sup>rd</sup>, 2001, Sydney, Australia (Course Chairman)
- August 2001: Spine Injury Conference, 31<sup>st</sup> August, 2001, Rex Hotel, Sydney, Australia
- September 2001: “Spinal Metastases” Breakfast Session, at the XIIth International Congress of Neurological Surgery, 17<sup>th</sup>-20<sup>th</sup> September, 2001. Sydney, Australia
- September 2001: Bryant Cervical Disc System Workshop, September 15<sup>th</sup>, 2001, Sydney, Australia (faculty)
- September 2001: Co-moderator for the Spine Section, at the 12th World Congress of Neurological Surgery, September 16<sup>th</sup> -20<sup>th</sup>, 2001, Sydney, Australia
- February 2002: Sofamor Danek R90 Beta Testers Think Tank, February 8<sup>th</sup>-10<sup>th</sup>, 2002, Coolum, Australia
- February 2003: Prodisc Spine Arthroplasty Course. February 23<sup>rd</sup>-25<sup>th</sup>, 2003, Straubing, Germany
- March 2003: Maverick Total Disc Replacement Inaugural Training Course. March 22<sup>nd</sup>, 2003, Brisbane, Australia

- May 2003: Stryker Spine Symposium. May 30<sup>th</sup>- June 1<sup>st</sup>, 2003, Port Stephens, NSW, Australia (faculty)
- June 2003: Advances in Posterior Cervical Spine Instrumentation. June 14<sup>th</sup>, 2003, Sydney, Australia (convenor)
- August 2003: Advances in the Surgical Management of Spondylotic Myelopathy. August 20<sup>th</sup>, 2003, Rochester University Medical Center, Rochester, New York, U.S.A. (Visiting Professor)
- August 2003: Minimal Access Spinal Surgery: August 31<sup>st</sup>, 2003, Brisbane, Qld., Australia (faculty)
- September 2003: Cervical Spine Symposium: Innovative Technologies- Artificial Cervical Discs, September 18<sup>th</sup>-21<sup>st</sup>, 2003, Lake Placid, New York, U.S.A.
- October 2003: Arthroplasty Seminar, 20<sup>th</sup> October, 2003, Congress of Neurological Surgeons Annual Meeting, Denver, CO, U.S.A.
- The 9<sup>th</sup> Advanced Techniques in Cervical Spine Decompression and Stabilisation Course, January 9<sup>th</sup>-11<sup>th</sup>, 2004, St. Louis, MO, U.S.A.
- Bryan Disc User Group Meeting, February 28<sup>th</sup>- 29<sup>th</sup>, 2004, Sydney, Australia (Co-chair)
- Prodisc Cervical Arthroplasty Training Course, 8<sup>th</sup> March, 2004, Melbourne, Australia
- MAST Trauma/Tumor Focus Group Meeting. 20<sup>th</sup> March, 2004, San Diego, CA, U.S.A.
- Stryker Spine Symposium. June 11<sup>th</sup> – 14<sup>th</sup>, 2004 , Gold Coast, Qld, Australia (faculty)
- Stryker Spine Symposium. The Practical Management of Complex Spinal Pathologies, May 27<sup>th</sup> – May 29<sup>th</sup>, 2005, Ayres Rock, NT, Australia (convenor)
- Advanced Cervical Spine Reconstruction Course, June 8, 2006, Las Vegas, U.S.A. (faculty)
- Global Spine, June 9-11, Las Vegas, U.S.A. (faculty)
- AO ASIF Degenerative Spine Symposium. Principles and Emerging Technology. July 22<sup>nd</sup> –July 23<sup>rd</sup>, 2006, Montreal, Canada (faculty)
- Surgical Management of the Cervical Spine Course, August 25<sup>th</sup>, 2006, Sydney, Australia (faculty)
- March 2007: “Motion Preservation Symposium (moderator)” at the 23<sup>rd</sup> Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, March 7<sup>th</sup>- 10<sup>th</sup>, 2007, Phoenix, Arizona.
- March 2007: “Special Course IV. Motion Segment Preservation A to Z” at the 23<sup>rd</sup> Annual Meeting of the AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, March 7<sup>th</sup>, 2007, Phoenix, Arizona.
- Prestige Cervical Disc: Core Education Course, March 31<sup>st</sup>, 2007, Memphis TN
- Advanced Cervical Spine Reconstruction Course, June 8, 2007, Las Vegas, U.S.A. (faculty)
- Prestige Cervical Disc Training Course, August 3<sup>rd</sup> and 4<sup>th</sup>, 2007, Denver, CO (chairman)
- Prestige Cervical Disc Training Course, August 17 and 18<sup>th</sup>, 2007, Las Vegas, NV, (chairman)
- Prestige Cervical Disc Training Course, April 25<sup>th</sup>, 2008, 2007, Chicago, IL, NV
- AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, Sep 5<sup>th</sup>- 7<sup>th</sup>, 2008, Baltimore, Maryland, U.S.A. (faculty)
- September 2008: “Special Premeeting Course PC22: Cervical Arthroplasty at the Congress of Neurological Surgery 2008 Annual Meeting, September 21<sup>st</sup>, 2008, Orlando, FL, U.S.A.
- January 2009: Operative and Nonoperative Management of Cervical Radiculopathy” at the AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, January 16<sup>th</sup>- 18<sup>th</sup>, 2009, Las Vegas, U.S.A.
- Prestige Cervical Disc Training Course, 20<sup>th</sup> July, 2009 Chicago IL, (faculty)
- May 2011: “Distinguishing Yourself in the Marketplace” at the Science + Spine +Management Symposium for Residents and Fellows, April 28<sup>th</sup>- 30<sup>th</sup>, 2011, Miami FL (faculty)
- AOSNA SPineNet Knowledge Forum Conference, Oct 21-22, 2011, Toronto, Canada
- January 2012: “Distinguishing yourself in the Marketplace” at Decision Making Strategies in Spine Surgery for the Early Career Surgeon, January 26<sup>th</sup>- 28<sup>th</sup>, 2012, Las Vegas, Nevada
- AO Spine. Excellence in Spine. Principles and Treatment of Spinal Disorders for Residents and Fellows, January 11<sup>th</sup> and 12<sup>th</sup>, 2013, New Orleans, U.S.A. (chairman)
- Decisions in Spine: Early Practice, March 20-21, 2015 in San Diego, CA (chairman)
- 13th Annual AOSNA Fellows Forum, April 23<sup>rd</sup>- 25<sup>th</sup>, 2015, Banff Springs, Alberta, Canada (faculty)

- Medtronic Posterior Cervical Workshop, August, 23<sup>rd</sup>, 2015, New Jersey (chairman)
- AO Spine: Controversies in Complex Spine Surgery: A Comprehensive Hands--on Bioskills Course for Fellows, September 10<sup>th</sup>-12<sup>th</sup>, 2014, Tampa FL (Chairman)
- Medtronic Posterior Cervical Workshop, October 24<sup>th</sup>, 2015, Las Vegas (chairman)
- 14th Annual AOSNA Fellows Forum, March 31<sup>st</sup>- April 2<sup>nd</sup>, 2016, Banff Springs, Alberta, Canada (faculty)
- August 2016: AO Spine. Principles and Treatment of Spinal Disorders for Residents Course August 19<sup>th</sup>-20<sup>th</sup>, 2016, Toronto, Canada (faculty)
- September 2016:
- September 16 : Spine. Principles and Treatment of Spinal Disorders for Residents, September 9<sup>th</sup> and 10<sup>th</sup>, 2016, Orlando, FL(faculty)
- November, 2016: Fundamentals in Posterior Cervical Fixation: Nov 12, 2016, Washington, DC, November 12, 2016 (Chairman)
- Jan 2016: AO Spine. Principles and Treatment of Spinal Disorders for Residents, January 13<sup>th</sup> and 14<sup>th</sup>, 2017, Las Vegas, NV (faculty)
- May 2016: Global Spine Congress, May 3<sup>rd</sup>- 6<sup>th</sup>, Milan, Italy
- Dec 2018: NASS Arab Spine Course Diploma (faculty), December 3<sup>rd</sup>-5<sup>th</sup>, 2018, Dubai, UAE
- 17th Annual AOSNA Fellows Forum, April 28<sup>th</sup>-30<sup>th</sup>, 2019, Banff Springs, Alberta, Canada (faculty)

## PEER REVIEW BOARDS

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### Editorial Board Membership:

- Journal of Spinal Disorders & Techniques (now Clinical Spine Surgery)
- Journal of Craniovertebral Junction & Spine
- Journal of Spine Surgery

### Associate Editorial Board:

- Spine Journal
- The Spine Journal (past)
- Global Spine Journal

### Reviewer for:

- Spine
- Acta Neurochirurgica
- J Clin Neurosci
- Journal of Spinal Disorders & Techniques
- Neurosurgery
- J Neurochem
- Neurology India
- Mayo Clinic Proceedings
- Yonsei Medical Journal
- Clinical Neurology and Neurosurgery
- Patient Safety in Surgery Journal
- Operative Neurosurgery
- Orthopedic Reviews
- Scoliosis
- Journal of Craniovertebral Junction & Spine

- Global Spine Journal
- Hindawi Publishing
- World Neurosurgery

## PEER REVIEW BOARDS

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- NASS Web Site Development Committee Member 2008-11
- NASS International Education Committee Member 2009
- NASS SpineLine Editorial Board Member 2007
- NASS Web Site Development Committee Member 1999 - 02
- NASS Web Site Development Committee Member 2002 - 05
- NASS World Spine II Advisory Board Member 2004 - 05
- NASS Spine Journal Editorial Board Advisor 2006 - 09
- Board of Directors and Treasurer for Kinetic Spine Technologies 2004-present
- Board of Directors and Vice President, SpineNevada 2005- 10
- Spine Trauma Study Group 2004- 10
- Medical Advisory Committee, Allez Spine 2009-11
- Renown Spine and Implant Committee 2009-present
- Renown Institute of Neurosciences Board Member 2006- 2009
- Neurosurgery Head, Spine Program, Renown Regional Medical Center 2011-present
- Washoe County Medical Society Publication Relations Committee 2011-present
- SpineNET Trauma Study Group under AOSpine North America 2011-present
- ThinkFirst Northern Nevada Sponsoring Physician 2011-present
- AOSpine North America Advanced and Fellows Course subcommittee 2012-present
- AONA Spine Faculty 2002-present
- AO Spine North America Community Development Committee 2012-present
- Orthopedic and Neurosurgery Leadership Council 2013-present  
*Northern Nevada Medical Center*
- Co-Director, Renown Regional Medical Center Spine Program 2007-present
- Executive Committee Member, Sierra Neurosurgery Group 2013-present
- Medical Executive Committee, Northern Nevada Medical Center 2019-2020
- Peer Review Committee, Northern Nevada Medical Center 2015-present
- AO Spine North America, Board of Directors 2016- 2019
- AO Spine North America, Chairman of Community 2016- 2019
- AO Spine Community Development Committee Social Media TaskForce 2019
- AO Spine North America Board and Leadership Retreat, Phoenix, AZ 2020

## PUBLICATIONS

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1. Sekhon LHS and Morgan MK: Pineal teratoma and its relationship to intracerebral development: case report. *Neurosurgery* 28: 594-596, 1991
2. Sekhon LHS, Morgan MK, Besser M and Maixner W: Controversies in the management of brainstem cavernous angioma: report of 2 cases. *Australian and New Zealand Journal of Surgery* 62: 763-767, 1992
3. Morgan MK and Sekhon LHS: Extracranial/intracranial saphenous vein bypass for carotid or vertebral artery dissections: report of six cases. *J Neurosurg* 80: 237-246, 1994
4. Sekhon LHS, Morgan MK, Spence I and Weber NC: Chronic cerebral hypoperfusion inhibits neuronal function in rats. *Stroke* 25: 1022-1027, 1994
5. Sekhon LHS, Morgan MK and Johnston IH: Syndactyly and intracranial arteriovenous malformation: case report. *Brit J Neurosurg* 8: 377-380, 1994
6. Sekhon LHS, Morgan MK, Salisbury ELC, Grace J and Lamont PJ: Recurrent Lymphomatoid granulomatosis and isolated central nervous system involvement: case report. *J Clin Neurosci* 2: 163-166, 1995
7. Sekhon LHS, Spence I, Morgan MK, and Weber NC: Chronic cerebral hypoperfusion in the rat: temporal delineation of effects and the *in vitro* ischemic threshold. *Brain Res* 704: 107-111, 1995
8. Morgan MK, Sekhon LHS, Halcrow SJ, Grinnell V, and Sorby W: Effective management of cerebral vasospasm with balloon angioplasty after failed papaverine angioplasty: case report. *J Clin Neurosci* 3(2): 162-165, 1996
9. Sekhon LHS, Spence I and Morgan MK: Chronic cerebral hypoperfusion and impaired neuronal function in the rat. *J Clin Neurosci* 3(2): 191, 1996
10. Sekhon LHS, Morgan MK, Spence I: Alterations in hippocampal structure in the chronic hypoperfusion model in the rat. *Stroke* 27(4): 793, 1996
11. Sekhon LHS, Morgan MK, Spence I: Alterations in animal behavior in the chronic hypoperfusion model in the rat. *Stroke* 27(4): 795, 1996
12. Sekhon LHS: The effects of chronic cerebral hypoperfusion in the rat. *Journal and Proceedings, Royal Society of NSW*, 129 (3/4): 153, 1996
13. Isert P, Stewart A, Sekhon, L. and Crawford M: Changes in brain temperature during forced-air convection cooling of primates. *J Neurosurg Anesth* 8: 331, 1996
14. Sekhon LHS, Morgan MK, Spence I and Weber NC: Chronic cerebral hypoperfusion: pathological and behavioral consequences. *Neurosurgery* 40: 548-556, 1997
15. Sekhon LHS, Morgan MK, and Spence I: Normal perfusion pressure breakthrough: the role of capillaries. *J Neurosurg* 86: 519-524, 1997
16. Sekhon LHS, Spence I, Morgan MK, and Weber NC: Chronic cerebral hypoperfusion inhibits calcium-induced long-term potentiation in rats. *Stroke* 28: 1043-1048, 1997
17. Sekhon LHS, Morgan MK and Spence I: Defining the role of capillaries in "normal perfusion pressure breakthrough" and "occlusive hyperemia". *Clin Neurol Neurosurg* 99: S13, 1997
18. Sekhon LHS: The effects of chronic cerebral hypoperfusion associated with arteriovenous malformations. *Clin Neurol Neurosurg* 99: S267-268, 1997
19. Morgan MK, Sekhon LHS, Grinnell V, Sorby W and Finfer S: Delayed neurological deterioration following resection of arteriovenous malformations of the brain. *Clin Neurol Neurosurg* 99: S54, 1997
20. Sekhon LHS, Morgan MK, and Spence I: Pathological consequences of chronic cerebral hypoperfusion in the rat. *J Clin Neurosci* 4(2): 281, 1997
21. Sekhon LHS and Vonau M: Simultaneous hangman's fracture in siblings undergoing vehicular trauma. *Australian and New Zealand Journal of Surgery* 68: 158-161, 1998
22. Sekhon LHS, Spence I, Morgan MK, and Weber NC: Long-term potentiation saturation in chronic cerebral hypoperfusion. *J Clin Neurosci* 5(3): 323-328, 1998

23. Sekhon LHS, Morgan MK, Sorby W, Grinnell V: Combined endovascular stent implantation and endosaccular coil placement for the treatment of a wide-necked vertebral artery aneurysm: technical case report. *Neurosurgery* 43(2): 380-384, 1998
24. Morgan MK, Sekhon L, Rahman Z, Dandie G: Letter to the Editor: Morbidity of intracranial hemorrhage in patients with cerebral arteriovenous malformations. *Stroke* 29(9): 2001, 1998
25. Sekhon LHS, Spence I, Morgan MK, and Weber NC: The role of inhibition in chronic cerebral hypoperfusion. *J Clin Neurosci* 5(4): 423-428, 1998
26. Morgan MK, Sekhon LHS, Finfer S and Grinnell V: Delayed neurological deterioration following resection of arteriovenous malformations of the brain. *J Neurosurg* 90: 695-701, 1999
27. Morgan MK, Sekhon LHS, Grinnell V, Sorby W and Finfer S: Delayed neurological deterioration following resection of arteriovenous malformations of the brain. *J Neurosurg* 1999 Apr;90(4):695-701
28. Fehlings MG, Yu WR, Shannon P, Sekhon LHS: Role of apoptosis in neuronal and axonal degeneration in cervical spondylotic myelopathy: an immunohistochemical study of human autopsy cases. *Can J Neuro Sci* 27(S2): S66, 2000
29. Fehlings MG, Yu WR, Shannon P, Sekhon LHS: Role of apoptosis in neuronal and axonal degeneration in cervical spondylotic myelopathy: an immunohistochemical study of human autopsy cases. *J Neurosurg* 92: 534, 2000
30. Fehlings MG and Sekhon LHS: Acute interventions in spinal cord injury: what do we know, what should we do? *Clin Neurosurg*, 48: 226-242, 2001
31. Sekhon, LHS: Methylprednisolone in acute spinal cord injury: arguments for its use. *J Bone Joint Surg - British Volume*. 83-B Supplement III:363, 2001
32. Sekhon LHS and Fehlings MG: Epidemiology, demographics and pathophysiology of acute spinal cord injury. *Spine* 26:S2-S12, 2001
33. Fehlings MG and Sekhon LHS: The role and timing of decompression in acute spinal cord injury. What do we know? What should we do? *Spine* 26:S101-S110 2001
34. Sekhon LHS and Morgan MK: Letter to the editor on Taylor CL, Selman WR, Ratcheson RA: Steal affecting the central nervous system. *Neurosurgery* 51:856-857, 2002
35. Sekhon LHS: Cervical arthroplasty in the management of spondylotic myelopathy *J Spinal Disord* 16: 307-313, 2003
36. Al- Barbarawi M and Sekhon LHS: Management of massive calcified transdural thoracic disc protrusion: case report. *J Clin Neurosci* 10(6): 707-710,2003
37. Parkinson JF and Sekhon LHS: Surgical management of spinal epidural abscess: selection of approach based on MRI appearance. *J Clin Neurosci* 11(2), 130-133,2004
38. Smith, SF and Sekhon LHS: A Quarter Of A Century Of Neurosurgery: The Value Of A Relational Database To Document Trends In Neurosurgical Practice Of A Tertiary Referral Hospital *J Clin Neurosci* 11(1): 31-36, 2004
39. Sekhon LHS: Two Level Artificial Disc Placement for Spondylotic Cervical Myelopathy: Case Report Hospital *J Clin Neurosci* 11(4): 412-415, 2004
40. Al- Barbarawi M, Smith S and Sekhon LHS: Haemorrhagic brain metastasis from a thymic carcinoma: case report *J Clin Neurosci* 11(2): 190-194,2004
41. Parkinson JF and Sekhon LHS: Cervical Arthroplasty for the treatment of cervical spine disease. *Australasian Musculoskeletal Medicine* 9(1): 28-31, 2004
42. Sekhon LHS: Cervical arthroplasty in the management of cervical myelopathy: 18 month results. *Neurosurg Focus* 17(3): E8, 2004
43. Pickett GE, Mitsis DK, Sekhon LHS, Sears WR and Duggal N: Effects of a cervical disc prosthesis on segmental and cervical spine alignment. *Neurosurg Focus* 17(3): E8, 2004
44. Smith, SF, Simpson JF and Sekhon LHS: Prophylaxis for deep venous thrombosis in neurosurgical oncology: review of 2,779 admissions over a nine-year period. *Neurosurg Focus* 17(4): E4, 2004
45. Parkinson JF and Sekhon LHS: MR appearance as a guide to the surgical management of spinal epidural abscess. *Neurosurg Focus* 17(6): E12, 2004

46. Al- Barbarawi M and Sekhon LHS: Protection of the C1 posterior arch in atlantal lateral mass screw fixation: technical case report. *J Clin Neurosci* 12(1): 59-61, 2005
47. Sears W, Sekhon L, Duggal N, Williamson O: Postoperative kyphosis and segmental imbalance with an unconstrained, variable I.A.R. cervical disc prosthesis. *Spine J*, July 6(5) (Supplement), 2005, 64S
48. Sekhon L, Sears W, Duggal N: Cervical arthroplasty after previous surgery: review of 15 cases. *Spine J*, July 5(4) (Supplement), 2005, 110S
49. Parkinson JF and Sekhon LHS: Spontaneous Delayed Fusion Cervical Arthroplasty Using the Bryan disc Prosthesis: Case Report . *J Neurosurg* 3:377-380, 2005
50. Sekhon LHS: Reversal of cervical fusion with a cervical arthroplasty prosthesis. *J Spinal Disorders*: 18(suppl 1):S125–S128, 2005
51. Sekhon LHS: Cervicothoracic junction arthroplasty after previous fusion surgery for adjacent segment degeneration. *Operative Neurosurgery* 56(ONS Suppl 1): ONS-205, 2005
52. Al- Barbarawi M, Smith SF, Qudsieh S and Sekhon LHS: Metastatic ovarian carcinoma presenting with multiple cerebral and leptomeningeal metastases: case report (in press: *J Clin Neurosci*: 18(6), 697-699, 2005
53. Sekhon L and Duggal N: Letter to the editor on Johnson JP, Laurysen C, Cambron HO, et al: Sagittal alignment and the Bryan cervical artificial disc. *Neurosurg Focus* 17(6):E14, 2004: *Neurosurg Focus* 18 (3), 2005
54. Sekhon LHS: Posterior Cervical Lateral Mass Screw Fixation: An Analysis Of 1026 Consecutive Screws in 143 Patients: *J Spinal Disord Tech*: 18: 297-303, 2005.
55. Sekhon LHS: Reply to :Goel A and Kulkarni (letter to the editor) *J Clin Neurosci*: 12(6):727-728. 2005
56. Sekhon L, Sears W, Duggal N: Cervical arthroplasty after previous surgery: review of 15 cases. *Spine J*: 5(4)(Suppl), 110, 2005
57. Sekhon LHS: Do you really need back surgery?: A surgeon's guide to neck and back pain and how to choose treatment (book review). *J Clin Neurosci*: 12(6):731. 2005
58. Sekhon LHS, Sears W and Duggal N: Cervical arthroplasty after previous surgery: review of 24 discs in 15 patients. *J Neurosurgery(Spine)*: 3:335-341,2005
59. Smith SF, Simpson JM and Sekhon LHS: What progress has been made in surgical management of astrocytomas and oligodendrogliomas in Australia over the last two decades? *J Clin Neurosci*: 12(8), 915-921, 2005
60. Smith SF, Biggs MT and Sekhon LHS: Risk Factors and Prophylaxis for Deep Venous Thrombosis In Neurosurgery. *SurgTechnol Int* XIV p1-8, 2005
61. Sekhon LHS & Ball J: **Artificial Cervical Disc Replacement - Principles, Types And Techniques. *Neurol India* 53(4): 445-450, 2005**
62. Sekhon LHS: Posterior Cervical Decompression And Fusion For Circumferential Spondylotic Cervical Stenosis: Review Of 50 Consecutive Cases. *J Clin Neurosci*: 13(1) 23-30, 2006
63. Ball JR & Sekhon LHS: **Timing of decompression and fixation after spinal cord injury- when is surgery optimal? *Critical Care and Resuscitation*: 8: 119-127,2006**
64. Anderson P, Sekhon L, Duggal N, Haid R, Heller J, Lynch J, Riew KD, Seex K: MR imaging clarity of cervical arthroplasty devices. *Spine J*: 6(5)(Suppl), 185, 2006
65. Joseph V, Sekhon L, Duggal N, Shenouda E, Choi D, Bertagnoli R, Massicotte E, Fehlings M: Revision strategies for cervical arthroplasty: results of a multi-surgeon international survey. *Spine J*: 6(5)(Suppl), 645, 2006
66. Pickett GE, Sekhon LHS, Sears WR and Duggal N: Complications of cervical arthroplasty. *J Neurosurgery(Spine)*: 4:98-105,2006
67. Sekhon, Lali HS, Anderson P, Duggal N, Lynch J, Heller J, Riew, DK, Haid, RW Jr, Seex K: Magnetic Resonance Imaging Clarity of the Bryan, Prodisc-c, Prestige LP, and PCM Cervical Arthroplasty Devices: 823. *Neurosurgery*. 59(2):461, August 2006.
68. Vaccaro AR, Lim MR, Hurlbert RJ, Lehman RA Jr, Harrop J, Fisher DC, Dvorak M, Anderson DG, Zeiller SC, Lee JY, Fehlings MG, Oner FC; Spine Trauma Study Group: Surgical Decision Making

- for Unstable Thoracolumbar Spine Injuries: Results of a Consensus Panel Review by the Spine Trauma Study Group. *J Spinal Disord Tech.* Feb;19(1):1-10, 2006
69. Vaccaro AR, Lee JY, Schweitzer KM, Lim MR, Baron EM, Oner FC, Hulbert RJ, Hedlund R, Fehlings MG, Arnold P, Harrop J, Bono CM, Anderson PA, Anderson DG, Harris MB, Spine Trauma Study Group: Assessment Of Injury To The Posterior Ligamentous Complex In Thoracolumbar Spine Trauma. *Spine J.* 2006 Sep-Oct;6(5):524-8. Epub 2006 Jul 11
70. Harrop JS, Vaccaro AR, Hurlbert RJ, Wilsey JT, Baron EM, Shaffrey CI, Fisher CG, Dvorak MF, Oner FC, Wood KB, Anand N, Anderson DG, Lim MR, Lee JY, Bono CM, Arnold PM, Rampersaud YR, Fehlings MG; Spine Trauma Study Group: Intrarater And Interrater Reliability And Validity In The Assessment Of The Mechanism Of Injury And Integrity Of The Posterior Ligamentous Complex: A Novel Injury Severity Scoring System For Thoracolumbar Injuries. Invited Submission From The Joint Section Meeting On Disorders Of The Spine And Peripheral Nerves, March 2005. *J Neurosurg Spine.* 2006 Feb;4(2):118-22.
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74. Vaccaro AR, Lim MR, Hurlbert RJ, Lehman RA Jr, Harrop J, Fisher DC, Dvorak M, Anderson DG, Zeiller SC, Lee JY, Fehlings MG, Oner FC; Spine Trauma Study Group: Surgical Decision Making For Unstable Thoracolumbar Spine Injuries: Results Of A Consensus Panel Review By The Spine Trauma Study Group. *J Spinal Disord Tech.* 2006 Feb;19(1):1-10.
75. Sekhon LHS and Anderson PA: "Disc Replacement: Postoperative imaging" in Heller J: *Semin Spine Surg*, W.B. Saunders Company, Philadelphia, June 2006
76. Anderson P, Sekhon L, Duggal N, Haid R, Heller J, Lynch J, Riew KD, Seex K: MR Imaging Clarity of Cervical Arthroplasty Devices . *Spine J* September 6(5) (Supplement), 2006, 18S
77. Riew KD, Sekhon L, Metcalf Jr. N, Sasso R, Anderson P: Cervical Disc Arthroplasty for Myelopathy. *Spine J* September 6(5) (Supplement), 2006, 57S-58S
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#### INDUSTRY CONSULTATION

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- Consultant for Medtronic Spine & Biologics 2001-2018
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- Medical Advisory Board, Phygen 2009- 2011
- Treasurer, Kinetic Spine Technologies 2004-2018
- Consultant, Zimmer Spine 2019- 2020
- Consultant, Medacta 2022-present
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#### PATENTS

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##### [Artificial intervertebral spacer](#)

Patent number: 8603176

##### [Dynamic pedicle screw](#)

Application number: 20110295319

##### [Articulating intervertebral disc prosthesis](#)

Patent number: 8057547

*Facet joint prosthesis*

Application number: 20110230913

*Artificial intervertebral spacer*

Application number: 20110093075

*Intervertebral disc prosthesis having ball and ring structure*

Application number: 20110054617

*Artificial intervertebral disc*

Application number: 20100222885

*Articulating intervertebral disc prosthesis*

Application number: 20090138090

*Intervertebral implant*

Application number: 20080208345

*Spinal stabilisation implant*

Application number: 20080132954

*Artificial vertebral body*

Application number: 20080065217

*Artificial intervertebral disc*

Application number: 20080065216

*Spinal implant*

Patent number: D676966