

ASSOCIATE PROFESSOR PAUL LICINA

Academic positions

Adjunct Professor, Orthopaedic Research, Queensland University of Technology
Senior Lecturer, School of Health and Rehabilitation Sciences and Faculty of Medicine, University of Queensland

Degrees

FRACS (Orth) - Fellowship of the Royal Australian College of Surgeons (Orthopaedic Surgery) (January 1997)

M.B.,B.S (Hons) - Bachelor of Medicine and Bachelor of Surgery with 2nd Class Honours (University of Qld 1987)

Current Appointment

Spinal Surgeon, SpinePlus Private Practice, Brisbane Private Hospital

Fellowship

Fellow in Spinal Surgery (May 1997 – April 1998), Centre for Spinal Surgery, Queens Medical Centre, Nottingham England

Past Positions

Chairman, AO Spine Asia-Pacific 2000-2002

Clinical director, QUT-AO Spine Centre, Brisbane, Australia 2001-2004

Scientific secretary, AOA Queensland Branch 2002 - 2005

President, AO Registrars Association 2005

Memberships

Australian Orthopaedic Association (Fellow)

Spine Society of Australia (Fellow)

ISSLS - International Society for the Study of the Lumbar Spine (Fellow)

Australian Medical Association (Specialist Member)

Book chapters

"Lumbar Spine Online Textbook Chapter 2: Recurrent Disc Herniation- Diagnosis and Management Section 18".

"Chapter 69. Posterior Cervical Osteotomy" Paul Licina and Geoffrey N Askin, in "Spine Surgery. Tricks of the Trade. 3rd edition". Alexander Vaccaro and Todd Albert, Thieme (2016)

"Strength measurement", Paul Licina, in "Measurements in Spine Care". Jens Chapman et al, Thieme (2012)

Papers Published

"Comparison of silicate-substituted calcium phosphate (Actifuse) with recombinant human bone morphogenetic protein-2 (Infuse) in posterolateral instrumented lumbar fusion", Licina P, Coughlan M, Johnston E, Pearcy M. *Global Spine Journal*, 2015; 5:471-8

"Patient expectation, outcomes and satisfaction: related, relevant or redundant?" Licina P, Johnston M, Ewing L, Pearcy M. *Evidence Based Spine Care Journal*, 2012; 3 (4): 13-9

"Use of the iPhone for Cobb angle measurement in scoliosis", Shaw M, Adam C, Izatt M, Licina P, Askin G, *European Spine Journal*, 2012; 21: 1062-1068

"Spine", Licina P, *Journal of Bone & Joint Surgery – British Volume*, 2012; 94-B (Suppl 23: 9)

"Autologous olfactory ensheathing cell transplantation in human paraplegia: a 3-year clinical trial" , Mackay-Sim A, Feron F, Cochrane J, Bassingthwaite C, Davies W, Fronck P, Gray C, Kerr G, Licina P, Nowitzke A, Perry C, Silburn PA, Urquhart S, Geraghty T. *Brain*, 2008; 131 (Pt 9): 2376-86.

"Autologous olfactory ensheathing cell transplantation in human spinal cord injury", Feron F, Perry C, Cochrane J, Licina P, Nowitzke A, Urquhart S, Geraghty T, Mackay-Sim A, *Brain*. 2005 Dec;128(Pt 12):2951-60

"Approach and considerations regarding the patient with spinal injury" Licina P, Nowitzke AN, *Injury*, 2005, Jul; 36 (Suppl 2)

"Posterior lumbar interbody fusion combined with instrumented posterolateral fusion – 10 year results in 60 patients", Freeman BJ, Licina P, Mehdian SH, *European Spine Journal*, 2000, Feb: 9(1):42-6

"Cervical osteotomy for ankylosing spondylitis: an innovative variation on an existing technique", Mehdian SM, Freeman BJ, Licina P, *European Spine Journal*, 1999;8(6):505-9

"The Orthopaedic Workforce in Queensland - Now and into the 21st Century", Paul Licina and Terence P McGuire, *Australian and New Zealand Journal of Surgery*, 1993, 63, 435-442

Invited papers

Surgery for Back Pain, How to Treat, *Australian Doctor*, 12th May 2006

Presentations

“Using machine learning to predict the likelihood of success after lumbar fusion”. Licina P; Namvar M; Beaumont P. Australian Orthopaedic Association Queensland Branch Annual Scientific Meeting, August 2024, Noosa.

“Using machine learning to predict the likelihood of success after lumbar fusion”. Licina P; Namvar M; Beaumont P. International Society for the Study of the Lumbar Spine Annual Scientific Meeting, May 2024, Milan.

“Using machine learning to predict the likelihood of success after lumbar fusion”. Licina P; Namvar M; Beaumont P. Spine Society of Australia Annual Scientific Meeting, April 2024, Sydney.

“Assessing the efficacy of simultaneous cold compression on acute post-operative pain following lumbar fusion surgery”. Beaumont P; Rochford M; Strazzeri D; Licina P. Spine Society of Australia Annual Scientific Meeting, April 2024, Sydney.

“The 5-year outcomes of spinal fusions”. Beaumont P; Licina P. The Australian Orthopaedic Association's Annual Scientific Meeting, November 2023, Melbourne.

“Lumbar microdiscectomy – a review of 500 cases”. Rochford M; Licina P. AOA Queensland Registrar Papers Day & QORF Collaborative Musculoskeletal Research Meeting, June 2023, Brisbane.

“Using big data to assess the efficacy of spinal fusion”. Beaumont P; Licina P. AOA Queensland Registrar Papers Day & QORF Collaborative Musculoskeletal Research Meeting, June 2023, Brisbane.

“Comparison of healing rates between rigid and semi-rigid bracing in adolescent lumbar pars bone stress injuries”. Licina P; Young M; Beaumont P. AO Spine Global Spine Congress, June 2023, Prague.

“Comparison of healing rates between rigid and semi-rigid bracing in adolescent lumbar pars bone stress injuries”. Licina P; Young M; McMeniman M; Brucksch-Domanski T; Beaumont P. International Society for the study of the Lumbar Spine, SpineWeek, May 2023, Melbourne.

“Healing rates following rigid lumbo-sacral immobilization in athletic pars bone stress injury”. Brucksch-Domanski T, Young M, Brady C, Lisle D, Licina P. Spine Society of Australia, May 2022, Darwin.

“Short-term outcomes of biopsychosocial rehabilitation following spine surgery”. Dal Bon C; Licina P; Goss B; Schuetz M; Holland J. Spine Society of Australia, May 2022, Darwin.

“Comparing osteostimulative bone graft substitutes in interbody fusion – is there a difference?”. Licina P; Johnston E; Lehmann C. Spine Society of Australia, May 2022, Darwin.

“Pre-operative anxiety predicts acute post-operative disability in a private, multidisciplinary spine surgery practice”. Dal Bon C; Holland J; Licina P. Spine Society of Australia, May 2022, Darwin.

“Radiological characteristics of posterior lumbar interbody fusion with silicate-substituted calcium phosphate bone graft (Actifuse) using traditional pedicle screw and cortical bone trajectory techniques”. Licina P; Lehmann C. Spine Society of Australia, May 2022, Darwin.

“Does compliance to semi-rigid bracing influence healing rates in pars bone stress injuries? A methodology abstract”. Licina P; Dal Bon C; Lehmann C. Spine Society of Australia, May 2022, Darwin.

“Radiological characteristics of posterior lumbar interbody fusion with silicate-substituted calcium phosphate bone graft (Actifuse®) using traditional pedicle screw and cortical bone trajectory techniques”. Licina P, Johnston E; Lehmann C. International Society for the Study of the Lumbar Spine Annual Scientific Meeting, May 2022, Boston.

“Short-term outcomes of biopsychosocial rehabilitation following spine surgery”. Dal Bon C; Licina P; Goss B; Schuetz M; Holland J. International Society for the Study of the Lumbar Spine Annual Scientific Meeting, May 2022, Boston.

“Healing rates following rigid lumbo-sacral immobilisation in athletic adolescent pars bone stress injury”. Brucksch-Domanski T; Young M; Brady C; Lisle D; Licina P. International Society for the Study of the Lumbar Spine Annual Scientific Meeting, May 2022, Boston.

“Comparing osteostimulative bone graft substitutes in interbody fusion – is there a difference?”. Licina P, Johnston E, Lehmann C. International Society for the Study of the Lumbar Spine Annual Scientific Meeting, May 2022, Boston.

“Experience with S53P4 in TLIF procedures in comparison with other bone graft substitutes” Licina P. EuroSpine, October 2019, Helsinki.

“The integrated spine practice - the way forward” Licina P. Spine Expert Network for Science and Education (SENSE), October 2018, Budapest.

“Management Protocol for Pars Interarticularis Pathology in Children and Adolescents”. Johnston E; Lisle D; Licina P; Young M; Brady C. Australian Orthopaedic Association Annual Scientific Meeting, Perth, October 2018.

“Lumbar disc surgery and annular closure” Licina P, Johnston E. AOA Annual Scientific Meeting, May 2017, Noosa.

“Fitness to drive after lumbar discectomy – a pilot study using an advanced driving simulator” Licina P, Johnston E. Spine Society of Australia Annual Scientific Meeting, April 2017, Hobart.

“Introduction of the Barricaid annular closure device – caution with new technology” Licina P, Johnston E. SpineWeek, May 2016, Singapore.

“Early clinical results of cortical versus traditional open pedicle screw techniques in posterior lumbar interbody fusion” Licina P. and Johnston E. Spine Society of Australia Annual Scientific Meeting, April 2016, Brisbane.

“Factors influencing the need for revision lumbar discectomy – how important is annular defect size?” Licina P. and Johnston E. Spine Society of Australia Annual Scientific Meeting, April 2016, Brisbane.

“Spine surgery – what is it good for?” Licina P. AOA Annual Scientific Meeting, October 2015, Brisbane.

“Accelerated patient guided return to activity after lumbar discectomy is safe” Licina P. and Johnston E. AOA Annual Scientific Meeting, October 2015, Brisbane.

“Early experience with the Barricaid: the first ten cases” Licina P. Spine Society of Australia Annual Scientific Meeting, April 2015, Canberra.

“The evidence can confuse – the case of Infuse” Licina P. AOA Annual Scientific Meeting, October 2014, Melbourne.

“Surgery vs image guided treatment” Licina P. Australian Musculoskeletal Imaging Group Annual Scientific Meeting, May 2014, Brisbane.

“Actifuse is comparable to Infuse in achieving fusion” Licina P. Spine Society of Australia Annual Scientific Meeting, April 2013, Perth.

“Back pain – strategies, advice and best clinical practice” Licina P. Aim of Pain. March 2013, Brisbane.

“Selection issues in lumbar spinal fusion” Licina P. Faculty of Pain Medicine Spring Meeting September 2012, Noosa.

“Patient expectations, outcomes and satisfaction: Related, relevant or redundant?” Licina P, Ewing L and M Percy. Winner of Alistair Robson Award for Best Clinical Paper Spine Society of Australia Annual Scientific Meeting, April 2011, Melbourne.

“What’s new in the diagnosis of back pain?” Licina, P. AOA Continuing Orthopaedic Education, April 2011, Melbourne.

“ALIF is effective for LBP” Licina P, Ewing L, Lisle D and M Pearcy. International Society for the Study of the Lumbar Spine Annual Scientific Meeting, June 2011, Gothenburg Sweden.

“Spine surgery – past, present and future” Licina P. AOA Annual Scientific Meeting, October 2009, Cairns.

“Early complications associated with BMP in lumbar interbody fusions” Licina P. Spine Society of Australia, September 2008, Adelaide.

“BMP does not improve clinical outcome in Interbody fusions”, Licina P, Lisle D, Sutton C. Spine Society of Australia, Annual Scientific Meeting April 2009, Brisbane. Paper no 10.05.

“I-Cobb – an innovative technique in spinal radiographic measurement” Shaw M, Izatt M, Adam C, Licina P and Askin G. Spine Society of Australia, Annual Scientific Meeting April 2009, Brisbane. Paper no 2.05.

“Early complications associated with BMP in TLIF”, Licina P, Lisle D, Sutton C. Spine Society of Australia, Annual Scientific Meeting April 2008, Adelaide.

“Artificial disc replacement and osteolysis” Licina P, Thorpe P. Spine Society of Australia Annual Scientific Meeting, April 2006, Sydney.

“Radiological follow up of patients after anterior cervical fusion with conventional and polyaxial locking plates” Aebli N, Krebs J, Goss B, Licina P. Spine Society of Australia, April 2005, Auckland.

“Charcot’s arthroplasty of the spine: a late complication of spinal instrumentation” Licina P. Spine Society of Australia, April 2005, Auckland.

“Transplantation of autologous olfactory ensheathing cells in spinal cord injury: surgery and twelve month safety data of phase one human clinical trial” Nowitzke A, Licina P, Cochrane J, Feron F, Geraghty T, Mackay-Sim A, Perry C, Urquhart S. The South African Spine Society, September 2005, South Africa.

“Return to sport following cervical spine injury” Harvey JR, Licina P. Spine Society of Australia, April 2004, Sunshine Coast.

“Radiological results and functional improvement in patients undergoing anterior lumbar interbody fusion” Thorpe PJ, Williams RP, Licina P. Spine Society of Australia, April 2004, Sunshine Coast.

“Osteolysis and complications associated with artificial disc replacement” Licina P, Thorpe PJ. Spine Society of Australia, April 2004, Sunshine Coast.

Participation in Teaching

Course Chairman, AO International Courses in Spine Surgery

Johannesburg, South Africa, January 2003
Tokyo, Japan, September 2002
Brisbane, Australia, February 2002
Taipei, Taiwan, July 2001
Taipei, Taiwan, May 2000

Faculty Member, AO International Courses in Spine Surgery

Kuala Lumpur, October 2009
Davos, Switzerland, December 2008
Phuket, Thailand, March 2006
Mumbai, India, June 2005
Sun Valley, USA, January 2005
Sun Valley, USA, January 2004
Davos, Switzerland, December 2003
Adelaide, Australia, October 2003
Tokyo, Japan, September 2003
Davos, Switzerland, December 2002
Newport, USA, October 2002
Queenstown, New Zealand, July 2002
Davos, Switzerland, December 2001
Kobe, Japan, September 2001
Marco Island, USA, August 2001
Davos, Switzerland, December 2000
Tokyo, Japan, October 2000
Seoul, Korea, August 2000
Davos, Switzerland, December 1999
Kobe, Japan, September 1999
Beijing and Hangzhou, China, April 1999
Hong Kong, March 1999
Tokyo, Japan, October 1998
Davos, Switzerland, December 1997
Nottingham, England, November 1997

Course Chairman

Advances in Spine, Hunter Valley, Australia, August 2009
Advances in Spine, Port Douglas, Australia, August 2005
Backs to the Future Spine course, Brisbane, Australia, June 2003

Faculty member

Depuy Elevating Best Practice in Spine, Brisbane, November 2005
Depuy Elevating Best Practice in Spine, Sydney, November 2006
Stryker Complex Spine Symposium, Ayers Rock, May 2005

Stryker Complex Spine Symposium, Coolum, May 2004

Invited Speaker

“The Great Debate: Artificial Intelligence – the horse has bolted and we will regret it”. The Australian Orthopaedic Association Queensland Branch Annual Scientific Meeting, August 2024, Brisbane.

“New Surgical Possibilities using Loop-X Mobile Robotic Imaging”. Satellite Symposium: Brainlab, SpineWeek, May 2023, Melbourne.

“Adoption of Technology into Practice” and “The Case for Cortical Screw Trajectory” The 2nd Stryker L4-5 Disc Forum, May 2016, Melbourne.

“The Business of Medicine” Getting of Wisdom Session, Spine Society of Australia Annual Scientific Meeting, April 2016, Brisbane.

“Swallowing Difficulties related to the Cervical Spine” and “Men of Steel” Upover Downunder XIII International ENT Meeting, January 2016, Italy.

Synthes Cadaver Advanced Course, November 2009, Brisbane.

Korean Spine Society, February 2005

International Society for Fracture Repair Annual Scientific Meeting, September 2000, Hong Kong.

Continuing Medical Education Programme in Spinal Surgery, June 1999, China.

Lecturer

Physiotherapy undergraduate course

University of Queensland

Griffith University

Post-graduate medicine clinical science course

University of Queensland

Post-graduate surgical orthopaedic anatomy course

Queensland University of Technology

Australian Orthopaedic Association Registrars' Training program

Royal Brisbane Hospital

Participation in Research

Director, Brisbane Private Hospital Spine Research Group

Collaborator and Implantation Surgeon, Spinal Regeneration Project, Princess Alexandra Hospital and Griffith University