

CONFERENCE PROGRAM • FRIDAY 5 APRIL 2024

7.15 - 8.15am	Expand A KOL	ding the frontiers of enabling technologies in spine: led discussion LifeHealthcare drew Kam		
8.00 - 8.30am	ARRIVAL TEA & COFFEE THE GALLERY			
8.30 - 8.40am	SSA 2024 CONFERENCE OPENING Dr Rob Kuru and A/Professor Paige Little			
8.40 - 10.00am	FREE PAPER SESSION 1 OUTCOMES			
	Chairs	Dr Rob Kuru, Dr John Street See abstracts pgs 41 - 47		
8.40am		Analysis of ODI scores following primary single level discectomy from the Australian Spine Registry **Dr Rob Kuru**		
8.50am		The growing problem of spine surgery wait times in British Columbia, Canada: Longitudinal trends and impacts on perioperative outcomes Dr John Street		
9.00am		Enrollment, surgical outcomes, complications and cost analysis from the Paediatric Spinal Surgery Registry (PSSR): Update after first 18-months of enrollment *A/Professor Aaron Buckland*		
9:10am		Patient reported outcomes of cervical and lumbar fusion surgery for patient with workers compensation claims do not differ to privately insured patients Dr Jessica Gaff		
9:20am		Review of 55 consecutive malpractice legal actions, with analysis of spine surgery risk factors Mr Graeme Brazenor		
9:30am		Low back pain classifications and their associations with disability, quality-of-life, and sociodemographic factors: A comprehensive examination using the PainDETECT Questionnaire Mr Zachary Gan		
9:40am		Evaluating disability and recovery through gait analysis: A prospective study of pre and post-intervention outcomes in 1317 patients with spinal complaints Professor Ralph J Mobbs		
9:50am		Prospective evaluation of a dynamic distraction lumbar belt for low back pair Mr Robert Gunzburg		



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All Friday & Saturday sessions (except breakfasts) will be conducted in Parkside 1 • Level 2 • ICC

10.00am MORNING TEA | THE GALLERY FREE PAPER SESSION 2 | NEW TECHNOLOGY 10.30 - 11.30am See abstracts pgs 48 - 52 Chairs | Dr Davor Saravanja, Ms Xenia Zubenko 10.30am 2.1 Using machine learning to predict the likelihood of success after lumbar fusion A/Professor Paul Licina 10.40am 2.2 Can augmented reality (AR) help choosing the rod: An in-vitro study Dr Patrick Weidle 10.50am 2.3 New smartphone-based eHealth technology to better link rural and remote scoliosis patients with tertiary care A/Professor J Paige Little COMBINED 2.4 / 2.5 PRESENTATION 11.00am HumiGard: Preserving tissue homeostasis against the enemy that is exposure Mr John Cunningham 2.4 Effect of humidified warmed air on the surgical incision during spinal surgery: An animal model of bacterial load 2.5 The delivery of humidified, warmed air to the surgical site during spinal

surgery: Findings from a first in human clinical trial

Uniportal endoscopic approach for spinal stenosis: Objective outcomes,

length of stay, complications, learning curve, and key insights

11.30am - 1.00pm SOCIETY SESSION

2.6

11.15am

Chair | *A/Professor John Costi*

11.30am The future of medical practice in Australia: Good, bad or ugly?

Professor Ralph J Mobbs

Professor Steve Robson

12.00pm Perils and pitfalls of AI in research and publication

Mr Robert Gunzburg

12.30pm Threats to and defences for medicine in Australia

Professor Steve Robson

1.00pm - 2.00pm LUNCH | THE GALLERY



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2.00 - 3.30pm	SYM	POSIUM 1 Chairs Mr Michael A Johnson, Dr Ashish Diwan	
2.00pm	How unprofessional behaviours among co-workers impact patient safety Professor Johanna Westbrook		
2.45pm	Adverse event reporting, surveillance and the impact of SAVES on patient care Dr John Street		
3.30 - 4.00pm	AFTERNOON TEA THE GALLERY		
4.00 - 5.30pm	FREE PAPER SESSION 3 CERVICAL See abstracts pgs 53 - 60 Chairs Dr Matthew Scott-Young, Dr Matthew Rackham		
4.00pm	3.1	Strategies for addressing failed cervical total disc replacement: In 42 patients **Dr Scott Blumenthal**	
4.10pm	3.2	Protection of adjacent disc after cervical disc prosthesis: 10 years follow-up with baguera C Professor Vincent Pointillart	
4.20pm	3.3	A report of osteolysis severity and implant failure associated with the M6-CTM implant in a large cohort and the patient and surgical outcomes following device retrieval Dr Gregory Cunningham	
4.30pm	3.4	Hybrid technique versus long fusion technique in multilevel cervical degenerative disc disease: An analysis of functional, radiological, and neurological outcomes **Dr Didik Librianto**	
4.40pm	3.5	Baseline and 6-month descriptive analysis of degenerative cervical myelopath DCM patients from observational myelopathy natural history MYNAH registry Dr Nashwa Najib	
4.50pm	3.6	Incidental degenerative cervical myelopathy in secondary healthcare: A comprehensive single-center retrospective audit Mr Rohil Chauhan	
5.00pm	3.7	Type II odontoid fractures: Non operative treatment a good alternative <i>Dr Andy Gov</i>	
5.10pm	3.8	Effects of cervical intervertebral disc injury and adjacent segment response An in vivo ovine biomechanical model with histological validation Dr Christopher Colloca	
5.20pm	3.9	Willingness to randomise patients to lumbar spine fusion surgery or conservative care in a future randomised trial: An Australian cross-sectional survey of clinicians *Professor Nadine Foster**	



CONFERENCE PROGRAM • SATURDAY 6 APRIL 2024

7.15 - 8.15am	Al an	d robotics: The evolution of technology in spine surgery avid Edis, Mr Andrew Grossbach Room: E3.3 • Level 3 • ICC Medtronic Engineering the extraordinary
8.00 - 8.30am	ARR	IVAL TEA & COFFEE THE GALLERY
8.30 - 10.00am	FREE	E PAPER SESSION 4 LUMBAR 1 See abstracts pgs 61 - 69
	Chair	s A/Professor Kevin Seex, Dr Ayfer Aslan
8.30am	4.1	Reassessing the minimum 2-year follow-up standard after lumbar decompression surgery: A 2-months follow-up seems to be an acceptable minimum A/Professor Aaron Buckland
8.40am	4.2	Relationship of discography to re-operation for disc-related pain more than 10 years after lumbar total disc replacement <i>Dr Jack Zigler</i>
8.50am	4.3	Safety and efficacy of PTP in Australia: The first 100 cases *Mr Yi Yuen Wang**
9.00am	4.4	Predictors of clinical failure after endoscopic lumbar spine surgery during the initial learning curve Dr Daniel Scherman
9.10am	4.5	Clinical outcomes of unilateral biportal endoscopy decompression for degenerative lumbar canal stenosis in the elderly population: A single-center retrospective study **Dr Meenu Shunmugam**
9.20am	4.6	Central nervous system infections in the Northern Territory: An interesting spectrum of tropical organisms **Dr Roshitha Bakmeedeniya**
9.30am		COMBINED 4.7 / 4.8 PRESENTATION Mr Stone Sima
	4.7	In subjects with chronic low back pain, does neuropathia exclusively correlate to neuronal compression? A correlation study of PainDETECT Questionnaire and corresponding MRI and x-ray findings
	4.8	Association between non-spinal comorbid medical conditions and neuropathic low back pain: A further unravelling of pain complexities in the context of back pain
9.45am	4.9	Does clinical experience influence the qualitative assessment of lumbar spina degeneration using the Pfirrmann, Goutallier and Weishaupt grading scales? **Professor Ian Whittle**



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10.30 - 11.15am PRESIDENT'S SESSION

Chair | Dr Rob Kuru

Frailty / sarcopenia and spine

Dr John Street

12.30pm - 1.30pm LUNCH | THE GALLERY

11.20am - 12.30pm	FREE	PAPER SESSION 5 LUMBAR 2
	Chairs	See abstracts pgs 70 - 75
11.20am	5.1	Changes in sagittal alignment following lumbar total disc replacement: Analysis based on full-body eos imaging
		Dr Scott Blumenthal
11.30am	5.2	Clinical outcome of lumbar total disc replacement in patients more than 60 years of age **Dr Jack Zigler**
11.40am	5.3	Restorative neurostimulation provides meaningful and durable outcomes: 5-year longitudinal follow-up of ReActiv8-b clinical trial Dr Michael Selby
11.50am	5.4	Poor device-anatomy fit may contribute to the principle modes of lumbar fusion device failure as identified by a new analysis of the FDA MAUDE database **Dr William Parr**
12.00pm	5.5	Is standalone ALIF a safe and effective treatment for low grade isthmic spondylolisthesis? Mr James Toohey
12.10pm	5.6	3D-printed titanium cages for anterior and lateral lumbar interbody fusion result in excellent fusion rates one year after surgery **A/Professor Aaron Buckland**
12.20pm	5.7	Impact of interbody lumbar fusion cages on the functional outcome in degenerative spondylolisthesis **A/Professor Henrik Baecker**



CONFERENCE PROGRAM • SATURDAY 6 APRIL 2024

All Friday & Saturday sessions (except breakfasts) will be conducted in Parkside 1 • Level 2 • ICC 1.30 - 3.00pm **SYMPOSIUM 2** Chairs | Dr Michelle Atkinson, Professor Nadine Foster 1.30pm Breaking down: Lumbar stress injuries in elite cricketers Mr Rowan Schouten 2.10pm Treatment and avoidance of deep surgical spinal infection Dr John Street 2.50pm Registry update Mr Michael Johnson 3.00 - 3.30pm AFTERNOON TEA | EXHIBITION HALL 2 3.30 - 4.30pm THE GETTING OF WISDOM Chair | *Dr Graeme Brazenor* 3.30pm **Professor Nigel Jones** 3.50pm Mr Michael A Johnson 4.10pm Dr Gordon Dandie 4.30 - 6.00pm **SSA BUSINESS MEETING - AGM** 7.00 - 11.00pm SSA2024 CONFERENCE GALA DINNER Australian National Maritime Museum

Darling Harbour



CONFERENCE PROGRAM • SUNDAY 7 APRIL 2024

7.15 - 8.15am	MATRIX MEDICAL INNOVATIONS BREAKFAST SESSION 3 Room: E3.3 • Level 3 Endoscopic spine surgery versus open surgery: Discussing the options for spine surgery in 2024		
	Profe	ssor Ralph Mobbs, Dr Greg Cunningham, Dr Yi Yuen Wang	
8.00 - 8.30am	ARR	IVAL TEA & COFFEE ROOM C3.3 FOYER	
8.30 - 10.00am	FREE	PAPER SESSION 6 BIOMECHANICS, BASIC SCIENCE & INTERVENTIONS	
	Chair	See abstracts pgs 77 - 85	
8.30am	6.1	Biomechanical implications of lumbar intervertebral disc fenestration: Comparison of ex vivo and in vivo conditions in a preclinical rabbit model Dr James Crowley	
8.40am	6.2	Assessing neuropathic pain in patients with chronic low back pain and who have not had prior spinal surgery: The pain questionnaire used can influence findings **Dr Danielle Chene**	
8.50am	6.3	Engineering the perfect mattress: Investigating biomechanical advantages of tri-phasic foam behaviour on the average male **Dr Lionel Rayward**	
9.00am	6.4	Ideal screw length to optimize fixation in expandable lateral cages with integrated plate Professor Greg Malham	
9.10am	6.5	Anterior lumbar interbody fusion with a novel osteoinductive allograft: 2 year clinical and radiographic outcomes Mr Dean Biddau	
9.20am	6.6	Stress shielding may reduce bone density in long-segment spinal fusion: Cohorts of AS/DISH and Harrington rod fusion patients <i>Dr Alexander Swart</i>	
9.30am	6.7	A normative spatiotemporal gait database for 366 healthy subjects Mr Panawannage Vinuja Randunu (Vin) Fernando	
9.40am	6.8	Perception matters: Severity of cosmetic deformity in adolescent idiopathic scoliosis cannot be subjectively assessed **Mrs Maree T Izatt**	
9.50am	6.9	Quantifying full spine paraspinal muscle volume, intramuscular fat and fat-free muscle (a)symmetry in adolescent idiopathic scoliosis Miss Phoebe Duncombe	



CONFERENCE PROGRAM • SUNDAY 7 APRIL 2024

All Sunc	ay sessions (except breakfast) will be conducted in C3.3 • Level 3 • ICC
10.00am	MORNING TEA ROOM C3.3 FOYER
10.30 - 12.00pm	FREE PAPER SESSION 7 SPINE DEFORMITY & TRAUMA
10.30am	Chairs <i>Dr Peter Woodland, Miss Phoebe Duncombe</i> See abstracts pgs 86 - 9 7.1 A retrospective, multi-centre comparison of continuous epidural analges and patient controlled analgesia following following posterior spinal instrumented fusion for adolescent idiopathic scoliosis **Dr Maisha Jamali**
10.40am	7.2 Health-related quality of life is unchanged at 5 years follow-up after AIS surgery: A single-center study of 164 patients **Dr Martin Heegaard**
10.50am	7.3 The incidence and outcomes of traumatic cauda equina syndrome Ms Xenia Zubenko
11.00am	7.4 Global reconstruction in post tubercular kyphotic deformity: An analysis of 67 cases Professor MD Shah Alam
11.10am	7.5 Novel instruments and method of posterior compression in lumbar fusion surgery, create more lordosis than the conventional alternatives A/Professor Kevin Seex
11.20am	7.6 The association between Hounsfield units and mechanical complications in ASD patients Dr Martin Heegaard
11.30am	7.7 Characterizing gait profiles of spine, hip and knee disease using a single-point wearable inertial measurement unit Professor Ralph J Mobbs
11.40am	7.8 Traumatic spinal cord injury in the elderly: Predictors for mortality and functional outcomes **Dr Mina Asaid**
11.50am	7.9 Role of pre-operative distraction using modified Halo-Pelvic-Ilizarov distraction assembly in correction of severe kyphoscoliotic spine deformities Professor Amer Aziz



CONFERENCE PROGRAM • SUNDAY 7 APRIL 2024

12.00 - 12.50pm	TOP 1	O POSTER SESSION See abstracts pgs 93 - 10
	Chairs	Professor Ralph Mobbs, Dr Nashwa Najib
12.00pm	TP.1	Assessing the efficacy of simultaneous cold therapy and compression bracing on acute post-operative pain following lumbar fusion surgery <i>Mr Patrick Beaumont</i>
12.05pm	TP.2	Execution of surgical strategy is improved by adapted patient specific rods in treatment of adult spinal deformity *Dr Martin Gehrchen*
12.10pm	TP.3	Functional outcome following adolescent scoliosis correction A/Professor Henrik Baecker
12.15pm	TP.4	Clinical and radiological outcomes following lumbar fusion using a bidirectional expandable interbody device Mr Yi Yuen Wang
12.20pm	TP.5	The learning curve of ReActiv8 implantation Dr Adrian Nowitzke
12.25pm	TP.6	A clinical care pathway for restorative neuromodulation with ReActiv8 for chronic low back pain: Description and cross-sectional analysis of patient satisfaction **Mr Allen Huang**
12.30pm	TP.7	Australian spine surgeon's perspectives on endoscopic spine surgery: An in-depth analysis **Dr Joseph Reidy**
12.35pm	TP.8	Analysis of blood pressure targets in paediatric neuromuscular scoliosis patients following corrective surgery in the intensive care setting: A study protocol *Dr Grace Pulling**
12.40pm	TP.9	Lumbar interbody fusion patient specific implants improve clinical outcomes and provide better value compared to stock alternatives Dr William Parr
12.45pm	TP.10	Radiological outcomes and quality of life in patients who underwent surgical correction of cervicothoracic kyphosis in patients with cervicothoracic tuberculous spondylitis: Multi-center experience <i>Dr Ifran Saleh</i>