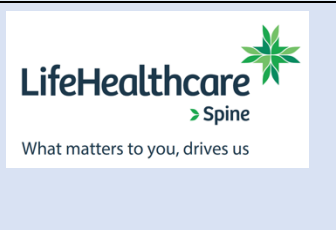


FRI 26 NOVEMBER Time (AEDT)	*ALL TIMES SHOWN ARE IN AEDT*	
SESSION INFORMATION		
07.20-08.20	<p>LifeHealthcare Breakfast Session The Progression and Future of Endoscopic Spine Surgery in ANZ</p> <p>Speakers: A/Professor Christoph Hofstetter, Dr Shanu Gambhir and Dr Yingda Li Chair: Dr Yingda Li and Mr William Leung</p>	 <p>LifeHealthcare > Spine What matters to you, drives us</p>
08.30-08.40	<p>Acknowledgement of Country and Conference Opening A/ Professor John Costi</p>	
08.40-10.00	<p>01. BASIC SCIENCE AND BIOMECHANICS Free Paper Session Chairs: A/Professor John Costi and Dr Ryan Quarrington</p> <p>1.1 Associations Between Potentially Modifiable Clinical Factors and Sagittal Balance of the Spine Dr Larry Cohen</p> <p>1.2 Measuring Longitudinal Growth of the Thoracic Spine in Healthy Adolescent Females in Brisbane: A 6 Year Sequential MR Study Dr Catherine Choi</p> <p>1.3 Enhancing Dental Pulp Stem Cell Viability for the Treatment of Spinal Cord Injury via Immune Cell Preconditioning Sandra Jenkner</p> <p>1.4 Positron Emission Tomography (PET) Imaging of 18-Kda Translocator Protein Radioligand [18F]GE-180 for Biological Assessment of Acute Spinal Cord Injury Dr Ryan O'Hare Doig</p> <p>1.5 Lumbar Disc Herniation Failure After Simulated Multiaxial Repetitive Lifting Mr Michael Russo</p> <p>1.6 Application of 3D Modelling Techniques for Prediction of Deep Tissue Pressure Injuries: Sensitivity to Substrate Stiffness Mr Lionel Rayward</p> <p>1.7 Novel Objective Measure of dynamic instability, the Walking Orientation Randomness Metric (WORM) score Mr Pragadesh Natarajan</p> <p>1.8 Proposed objective scoring algorithm for walking quality, based on relevant gait metrics: The Simplified Mobility Score: SMoS™ - [Observational Study] Mr R. Dineth Fonseka</p>	







DAY ONE | FRIDAY 26 NOVEMBER

FRI 26 NOVEMBER Time (AEDT)	*ALL TIMES SHOWN ARE IN AEDT*	
SESSION INFORMATION		
10.00-10.45	MORNING TEA VIRTUAL EXHIBITION	
10.15-10.35	<p>LifeHealthcare: Meet the Expert Session RoboticScope: Effortless Microsurgery for Spine</p> <p>Speaker: Professor Christian Freyschlag and Gerhard Korn Chair: Mr Richard Brookhouse</p>	
10.45-11.45	<p>02. CERVICAL SPINE Free Paper Session Chairs: A/Professor Kevin Seex and Dr Isaac Rhee</p> <p>2.1 CP ESP viscoelastic cervical disk replacement: minimum 2 years follow-up clinical results. Evolution of segmental mobility and location of mean centers of rotation. Professor Jean Yves Lazenec</p> <p>2.2 Comparison of in vivo kinematic parameters of three cervical disc prostheses Mr Nicholas Chang</p> <p>2.3 Successful cervical interbody fusions (ACDF) in canines using custom 3D printed titanium systems – 5 week and 36-month retrieval analyses. Dr William Parr</p> <p>2.4 Comparison of kinematic measures following cervical arthroplasty, arthrodesis, and hybrid procedures Mr Simon Luong</p> <p>2.5 Cervical interbody spaces vary by level and are always asymmetrical; most symmetrical cervical interbody devices will not fit well in the anatomical space Mr Wilson Liu</p> <p>2.6 Evaluation of the cervical range of movement (CROM) in postoperative anterior cervical discectomy and fusion (ACDF) and cervical total disc replacement (CTDR) patients Dr Prashanth Rao</p>	
11.45-13.00	<p>SOCIETY SESSION Chair: Dr Davor Saravanja</p> <p>11.45-12.00 Changing Dogma: building the biomarker and predicting growth in paediatric orthopaedics A/Professor Michelle Welborn</p> <p>12.00-12.20 Vertebral Body Tethering: where are we now? Dr Steven Hwang</p> <p>12.20-12.40 Spinal Deformity Surgery in Elderly Patients A/Professor Hamid Hassanzadeh</p> <p>12.40-13.00 Bone-On-Cage for Operative Correction of Scheurmann’s Kyphosis Professor Robert Gaines</p>	



DAY ONE | FRIDAY 26 NOVEMBER

FRI 26 NOVEMBER Time (AEDT)	*ALL TIMES SHOWN ARE IN AEDT*	
SESSION INFORMATION		
13.00-14.30	LUNCH VIRTUAL EXHIBITION	
13.20-13.40	<p>Medtronic: Meet the Expert Session Enabling Technologies and Robotic-Assisted Surgery - Changing the Future of Healthcare</p> <p>Speaker: Dr Mohammed Awad Chair: Mr Abel Anzaldo</p> 	
13.50-14.10	<p>LMT Surgical: Meet the Expert Session The Robotic Digital Microscope: Early Clinical Experience</p> <p>Speaker: Dr Paul Licina Chare: Mr Fouad Kesserwani</p> 	<p>BrainLab: Meet the Expert Session Introducing Loop-X Mobile Imaging Robot in Action</p> <p>Speaker: Mr Dominik Schaefer Chair: Mr Uli Mezger</p> 
14.30-15.30	<p>SYMPOSIUM I Chair: Dr Ralph Stanford</p> <p>14.30-14.50 ALIF with BMP Dr Scott Blumenthal</p> <p>14.50-15.10 Have CTDRs evolved to the point of perfection? Dr Richard Guyer</p> <p>15.10-15.30 Using Predictive Analytics to choose the Best Patients for Lumbar Disc Replacement Lessons from the FDA IDE Studies Dr Jack Zigler</p>	
15.30-16.15	AFTERNOON TEA VIRTUAL EXHIBITION	
15.45-16.05	<p>DePuy Synthes: Meet the Expert Session Complex Cervical using Symphony</p> <p>Speaker: Prof Heiko Koller</p> 	
16.15-17.30	<p>03. OTHER, OUTCOMES, TUMOUR AND TRAUMA Free Paper Session Chairs: Dr David Nielsen and Mr Tajrian Amin</p> <p>3.1 Proposed objective scoring algorithm for assessment and intervention recovery following surgery for lumbar spinal stenosis: The Gait Posture index (GPi) A/Professor Ralph Mobbs</p>	



FRI 26 NOVEMBER Time (AEDT)	*ALL TIMES SHOWN ARE IN AEDT* SESSION INFORMATION
	<p>3.2 Accelerometers for objective evaluation of physical activity and gait in patients presenting with spine problems: A prospective evaluation of 692 patients over a 4-year period. A/Professor Ralph Mobbs</p> <p>3.3 Review of the Australian Spine Registry (ASR) Pilot: 3 years of engaging surgeons and patients. Dr Esther Apos</p> <p>3.4 The Use of Carbon Fibre/Polyetheretherketone (CF/PEEK) in Pedicle Screw Fixation for Spinal Neoplasms – Potential Advantages in Postoperative Outcomes and Radiotherapy Planning Mr Daniel Ho</p> <p>3.5 Developing and characterising a porcine survival model of thoracic contusion spinal cord injury Miss Christine Gayen</p> <p>3.6 Outcomes for vertebrectomy for malignancy and correlation to the spine instability neoplastic score (sins): a 10-year single-centre perspective Dr Christopher Donnellan</p> <p>3.7 The effect of multiple nerve transfer surgery for the restoration of upper limb function in tetraplegia: Expanding on traditional tendon-based surgical techniques Dr Jacqueline Woerner</p>
17.30-18.00	<p>Spine & Wine Time</p> <p>Join Rob Geddes, Master of Wine, and Jim Schwilk, Sydney Wine Centre for a chat about wine.</p>
17.30-18.30	<p>Networking Session</p> <p>Join your colleagues for some dedicated networking time in our “speed meeting” room. You’ll be able to video chat with other attendees in real time in an informal setting, allowing you unwind after a busy first day at the conference.</p>
End of Day One	





SAT 27 NOVEMBER Time (AEDT)	*ALL TIMES SHOWN ARE IN AEDT*	
SESSION INFORMATION		
07.15-08.15	<p>Medtronic Breakfast Session AI-driven Surgical Planning, Patient-Specific Implants, and Navigated Robotic Guidance</p> <p>Speakers: Dr Joseph Osorio and Dr Christopher Kleck Chair: Mr David Hamilton</p>	
08.25-08.30	<p>Welcome to Day Two A/ Professor John Costi</p>	
08.30-10.00	<p>04. CERVICAL, SPINAL DEFORMITY AND SURGERY Free Paper Session Chair: Dr Prashanth Rao</p> <p>4.1 Use of Demineralized Cortical Fibers is associated with reduced risk of Pseudarthrosis after Pedicle Subtraction Osteotomy for Adult Spinal Deformity Prof Benny Dahl</p> <p>4.2 Chromium metal ion release during instrumented spinal surgery in children; the effects of electrosurgery A/ Professor Peter Cundy</p> <p>4.3 Late Failure of Cervical Disc Arthroplasty Due to Osteolysis Dr Scott Blumenthal</p> <p>4.4 3D Morphology of cervical vertebral endplate anatomy: a literature review Mr Wilson Liu</p> <p>4.5 Mid-Term 4-year Neck Disability Index Scores for Single-Level Total Disc Replacement with a Novel Viscoelastic Artificial Cervical Disc Compared to ACDF Dr William F. Lavelle</p> <p>4.6 Mid-Term 4-year Neck and Shoulder/Arm Pain Scores for Single-Level Total Disc Replacement with a Novel Viscoelastic Artificial Cervical Disc Compared to ACDF Dr William F. Lavelle</p> <p>4.7 Early results of a novel growth rod for early onset scoliosis Dr Kristopher Lundine</p> <p>4.8 Single Position Anterior-To-Psoas Lumbar Interbody Fusion and Bilateral Screw Fixation: Perioperative Results and Complications Dr Isaac Rhee</p> <p>4.9 Not so sweet: determining hemoglobin A1C cutoffs in diabetic patients prior to posterior spinal fusion A/Professor Aaron Buckland</p>	



SAT 27 NOVEMBER Time (AEDT)	*ALL TIMES SHOWN ARE IN AEDT*	
SESSION INFORMATION		
10.00-10.45	MORNING TEA VIRTUAL EXHIBITION	
10.15-10.35	<p>LifeHealthcare: Meet the Expert Session The Importance of Synergy Between Interbody Cages and Biologics: 4WEB & Australian Biotechnologies Fibreputty</p> <p>Speaker: Mr John Cunningham Chair: Mr Balaji Mani</p>	
10.45-11.30	<p>PRESIDENT'S SESSION</p> <p>Ms Carmel Monaghan, Ramsay Health Care Chair: Professor Matthew Scott-Young</p>	
11.30-12.40	<p>05. BASIC SCIENCE AND BIOMECHANICS II Free Paper Session Chairs: Dr Catherine Choi and Sandra Jenkner</p> <p>5.1 How many generic devices would be needed to fit the normal variation in cervical interbody size and shape and what are the alternatives? Dr William Parr</p> <p>5.2 Healing of iliac crest cancellous autograft donor site in an adult ovine model Dr Daniel Wills</p> <p>5.3 Can central sensitisation function as an autonomous pain generator in the human when the injury which triggered it has healed? A Literature Review. Dr Graeme Brazenor</p> <p>5.4 Specimen-specific computer models of subaxial cervical spinal segments for measuring cartilage contact Dr Ryan Quarrington</p> <p>5.5 The effect of axial compression and distraction on cervical facet cartilage articulation during shear and bending motions Dr Ryan Quarrington</p> <p>5.6 Assessing quality of motion over the arc of flexion-extension motion in patients after cervical disc arthroplasty Dr David Tan</p> <p>5.7 Objectifying clinical gait assessment: Wearable devices in gait assessment of lumbar spinal stenosis patients Mr R. Dineth Fonseka</p>	



SAT 27 NOVEMBER Time (AEDT)	*ALL TIMES SHOWN ARE IN AEDT*	
SESSION INFORMATION		
12.40-14.00	LUNCH VIRTUAL EXHIBITION	
13.00-13.20	<p>Device Technologies: Meet the Expert Session Bedrock: Fixation & Foundation of Long Constructs</p> <p>Speaker: Dr Michael Selby Chair: Mr Kieran Ryan</p> 	
13.30-13.50	<p>Australian Biotechnologies: Meet the Expert Session Osteoinductive Bone in Spinal Fusions</p> <p>Speaker: Professor William Walsh Chair: Ms Lynette Newby</p> 	<p>Globus Medical: Meet the Expert Session My Clinical Experience with ExcelsiusGPS®</p> <p>Speaker: Dr John Choi Chair: Mr Joshua Gross</p> 
14.00-15.00	<p>SYMPOSIUM II: Robotics in Spine surgery Chair: Prof Greg Malham</p> <p>14.00-14.05 Introduction</p> <p>14.05 -14.17 Robotic spine surgery in my practice: pros and cons Dr Mohammed Awad</p> <p>14.17-14.29 Robotic Spine Surgery – early adoption experience and results 2017-2021 Dr John Choi</p> <p>14.29-14.41 Robotics in minimally invasive Spine Surgery Dr Michael Selby</p> <p>14.41-14.53 Spinal robotics: current applications and future perspectives Dr Jonathon Ball</p> <p>14.53-15.00 Discussion All speakers</p>	
15.00-15.45	AFTERNOON TEA VIRTUAL EXHIBITION	
15.15-15.35	<p>NuVasive Meet the Expert Session Pulse – An Integrated Spinal Technology Platform that has Changed My Practice</p> <p>Speaker: Dr Zachary Tempel Chair: Ms Kate Blackwell</p> 	



DAY TWO | SATURDAY 27 NOVEMBER

SAT 27 NOVEMBER Time (AEDT)	*ALL TIMES SHOWN ARE IN AEDT* SESSION INFORMATION
15.45-16.45	<p>THE GETTING OF WISDOM Chair: Dr Rob Kuru</p> <p>The Getting of Wisdom A/Professor Bryan Ashman</p> <p>An Engineer Meets the Spine: Her Continued Quest for Wisdom A/Professor Paige Little</p> <p>The Getting of Wisdom Professor Marcus Stoodley</p>
17.00-18.00 (via Zoom)	<p>ANNUAL GENERAL MEETING</p> <p>Please note this meeting will be conducted via Zoom. Link and login details will be made available to pre-registered SSA members. For further details or to register for the AGM contact the SSA secretariat@spinesociety.org.au</p>
End of Day Two	





DAY THREE | SUNDAY 28 NOVEMBER

SUNDAY 28 NOVEMBER Time (AEDT)	*ALL TIMES SHOWN ARE IN AEDT* SESSION INFORMATION
07.45-07.50	<p>Welcome to Day Three A/Professor John Costi</p>
07.50 - 09.20	<p>06. NEW TECHNOLOGY Free Paper Session Chairs: Dr Gerald Quan and Dr Ghassen Gader</p> <p>6.1 Bone morphogenetic protein in spine surgery: past, present and future. Has a good product been adequately handled? A Narrative Review. Professor Gregory Malham</p> <p>6.2 Comparison of novel machine vision image guidance system with a 3D-fluoroscopy-based platform for pedicle screw placement: a randomised prospective study of radiation, accuracy and cost. Professor Gregory Malham</p> <p>6.3 Expandable lateral lumbar cages with integrated fixation: a viable option for rostral adjacent segment disease Professor Gregory Malham</p> <p>6.4 Where we're at with 3D printed spinal devices: hype, disillusionment and productive application in spinal surgery Dr William Parr</p> <p>6.5 Early experience using novel machine vision spine navigation system to map intraoperative spinal changes in posterior spinal fusion Mr John Cunningham</p> <p>6.6 Wearable devices for patient monitoring in the early postoperative period: a literature review. Mr Tajrian Amin</p> <p>6.7 Patient specific 3d-printed vertebrectomy cages in the cervical, thoracic and lumbar spine: a case series. Mr Tajrian Amin</p> <p>6.8 The superior efficacy and immediate preparation time of a novel combination hemostatic agent powder containing thrombin Professor William Spotnitz</p> <p>6.9 The future of endoscopic spine surgery A/Professor Christoph Hofstetter</p>



DAY THREE | SUNDAY 28 NOVEMBER

SUNDAY 28 NOVEMBER Time (AEDT)	*ALL TIMES SHOWN ARE IN AEDT* SESSION INFORMATION	
09.20-10.00	MORNING TEA VIRTUAL EXHIBITION	
09.30-09.50	<p>Mainstay: Meet the Expert Session Targeting the Multifidus: A Paradigm Shift in Treatment Options for CLBP</p> <p>Speaker: Dr Michael Selby Chair: Mr YH Yau</p> 	<p>Neutron: Meet the Expert Session Ziehm 3D – Advantages in 3D imaging</p> <p>Speaker: Mr Colin Loo Chair: Mr Owen Smith</p> 
10.00-11.20	<p>07. LUMBAR SPINE Free Paper Session Chair: Dr Susan Liew</p> <p>7.1 Index level and adjacent level revision spine surgery following single level lumbar total disc replacement Dr David Nielsen</p> <p>7.2 Hyperlordotic anterior interbody use without superior articulating process resection has an increased risk of iatrogenic neurological injury in single level circumferential fusion A/Professor Aaron Buckland</p> <p>7.3 Optimizing safety in robotic lumbar instrumented fusions: a risk factor analysis of robotic failures A/Professor Aaron Buckland</p> <p>7.4 Comparison of freehand, fluoro-guided, CT navigation, and robot-guided TLIF and ALIF A/Professor Aaron Buckland</p> <p>7.5 Lordosis Distribution Index in short-segment lumbar spine fusion – can ideal lordosis reduce revision surgery and iatrogenic deformity? Prof Benny Dahl</p> <p>7.6 Vascular considerations in virtual surgical planning for anterior lumbar interbody fusion (ALIF): A technical note Mr Tajrian Amin</p> <p>7.7 Computed tomography study of the relationship between pelvic incidence and osseous contribution to lumbar lordosis in children Mr Joseph Baker</p>	
11.20-11.40	Comfort break	



DAY THREE | SUNDAY 28 NOVEMBER

SUNDAY 28 NOVEMBER Time (AEDT)	*ALL TIMES SHOWN ARE IN AEDT* SESSION INFORMATION
11.40-12.30	<p>TOP TEN POSTERS Chair: A/Professor John Costi</p> <p>TT01 Virtual Surgery Planning and Patient Specific Implants, how does what is achieved in surgery compare to what is planned. Dr William Parr</p> <p>TT02 The efficacy of L5-S1 total disc replacement - a systematic review and meta-analysis Mr Nicholas Chang</p> <p>TT03 Radiculitis: assessing the risk of biologic use in minimally invasive transforaminal lumbar interbody fusions A/Professor Aaron Buckland</p> <p>TT04 Pott's Disease of the cervical spine: a case report of a rare tubercular localization Dr Ghassen Gader</p> <p>TT05 Screw augmentation using demineralized bone fiber anchors Professor William Walsh</p> <p>TT06 Quantifying the biomechanical effects of a L4-L5 XLIF on adjacent spinal structures Mr Vivek Ramakrishna</p> <p>TT07 Dysphagia and Recurrent Laryngeal Nerve Injury Following Anterior Cervical Discectomy and Fusion in an Australian retrospective study Dr Lawrence Oh</p> <p>TT08 Risk factors for vocal cord palsy in low anterior cervical spine surgery Dr Milly Huang</p> <p>TT09 Personalization of anterior lumbar interbody fusion using 3d-printed patient-specific interbody cages and virtual surgery planning: a case series Mr Tajrian Amin</p> <p>TT10 The Benefit Zone of Endoscopic Spine Surgery A/Professor Christoph Hofstetter</p>
12.30-12.45	<p>AWARDS AND CONFERENCE CLOSE A/Professor John Costi</p> <p>Don't miss the conference closing. We'll announce the winner of our gamification prize draw in addition to the winners of the Alistair Robson, Clayton Adam, Rob Johnston Awards and the Best Poster, Paper and Spinal Research Paper Awards.</p>

End of Day Three – See you in 2022!

