CONFFERENCE FULL PROGRAM - DRAFT

FRIDAY 27th APRIL

7.15 AM - 8.15 AM  Breakfast Session – Sponsored by Medtronic

8.45 AM - 9.00 AM SSA 2018 CONFERENCE OPENING
Dr William Sears - President, Spine Society of Australia
Professor Brian Freeman - Scientific Secretary, Spine Society of Australia

9.00 AM - 10.00 AM FREE PAPER SESSION 1: TRAUMA
Chair: Dr Peter Woodland

9.00 AM - 1.1 Review of traumatic spinal cord injuries treated at a tertiary-level centre in Queensland from 2014 to 2017
Dr Michael Alim

9.10 AM - 1.2 The utility of pre-hospital mean arterial pressure as a strong negative predictor of ASIA Impairment Scale (AIS) in acute traumatic spinal cord injury.
Mr Michael J Anderton

9.20 AM - 1.3 A Multi-Center, Randomized, Placebo-Controlled, Double-Blinded Trial of Efficacy of Riluzole in Acute Spinal Cord Injury (RISCIS): Rationale and Design of the AOSpine Phase III Study.
Dr Ralph Stanford

9.30 AM - 1.4 Endogenous Cortisol Delivery Following Spinal Cord Injury: Clinical Implications
A/Prof Jillian Clark

9.40 AM - 1.5 Relationship between facet joint distraction during traumatic Anterior Cervical Discectomy and fusion and functional outcomes
Mr Ali Humadi

9.50 AM - 1.6 Minimally invasive stabilization for thoracolumbar fractures: A comparative study with short segment open Schanz screw constructs
Dr Yu Chao Lee

10.00 AM – 10.30 AM Morning Tea

10.30 AM - 11.30 AM SOCIETY SESSION
Chair: Dr William Sears

1. Dr William Sears
2. Dr Linda Swan
3. Dr Ralph Stanford
4. Mr Michael Johnson
5. A/Prof Matthew Scott-Young
11.30 AM - 12.30 PM FREE PAPER SESSION 2: LUMBAR DISC HERNIATION
Chair: Professor Brian Freeman

11:30 AM - 2.1 Efficacy of anticonvulsants in the treatment of low back pain and lumbar radicular pain - Results of a systematic review and meta-analysis
Dr Oliver Enke

11:40 AM - 2.2 Normalization of spinal cord displacement during the straight leg raise with resolution of sciatica in patients with lumbar intervertebral disc herniation: A 1.5-year follow-up study
A/Prof, PhD Marinko Rade

11:50 AM - 2.3 Tubular Discectomy vs Conventional Microdiscectomy for the treatment of lumbar disk herniation – Long-term results of a Randomized Controlled Trial
Dr Mark Arts

12:00 PM - 2.4 Annular closure device for disc hemiation: meta-analysis of clinical outcome and complications
Mr Wen Jie Choy

12:10 PM - 2.5 The utility of annular closure for long-term prevention of symptomatic reherniation and reoperation after lumbar discectomy: 4-year data from a multi-center, prospective, randomized superiority study
Dr Mark Arts

12:20 PM - 2.6 Epidural steroids at closure post-microdiscectomy/laminectomy for reduction of post-operative analgesia: systematic review and meta-analysis
Dr Kevin Phan

12.30 PM – 1.30 PM Lunch

1.30 PM – 3.30 PM SYMPOSIUM 1
Chair: Dr Michael A Johnson

1.30 PM – Professor Gordon Wallace – ‘3D Bioprinting: Building structures to facilitate communication with neurons’

2.00 PM – David Polly – ‘Surgical invasiveness score versus patient health to decided when to say no’

2.30 PM – Dr Justin Smith – ‘Spinal alignment and why it matters in every case from degenerative disease to deformity’

3.00 PM - 3.30 PM - Afternoon Tea

3.30 PM - 5.30 PM - FREE PAPER SESSION 3: LUMBAR SPINE
Chair: Dr Robert Kuru / Dr Matthew Scott Young

3:30 PM - 3.1 Pars Interarticularis Defects in Athletes
Dr Samuel Tawfik

3:40 PM - 3.2 Mild (not severe) disc degeneration is implicated in the progression of bilateral L5 spondylolysis to spondylolisthesis
Dr Uphar Chamoli
3:50 PM - 3.3 Three-dimensional assessment of the lumbar spine motion in vivo using the EOS stereography system: intra- and inter-observer reproducibility study
Pr Marc-Antoine Rousseau

4:00 PM - 3.4 Anatomic study of Great Vessels for L5-S1 Oblique Lumbar Interbody Fusion (OLIF)
Mr Reza Rahim

4:10 PM - 3.5 Early walking after lumbar spinal surgery as a predictor of outcome
Mrs Sarah Gilmore

4:20 PM - 3.6 Progression of Adjacent-level Degeneration after Lumbar Total Disc Replacement: Results of a Prospective Study with 5-year Follow-up
Dr Scott Blumenthal

4:30 PM - 3.7 Analysis of Lumbar Total Disc Replacement Removals and Revisions: A 17-Year Experience
Dr Scott Blumenthal

4:40 PM - 3.8 In Vivo Analysis of Kambin’s Triangle and the Clinical and Radiographic Results Following the Use of 14mm Extra Wide 3D Porous Lamellar Titanium TLIF Cages.
Mr Robert Lee

4:50 PM - 3.9 Lumbar Interbody Fusion Rates In 3D Printed Lamellar Titanium Cages Using a Silicate Substituted Calcium Phosphate Bone Graft
Mr Robert Lee

5:00 PM - 3.10 Demineralized bone fibers as a bone grafting option
Professor William Walsh

5:10 PM - 3.11 Reliability of Pre-operative Surgical Planning Software in Predicting Postoperative Alignment in Patients Undergoing Minimally Invasive Multilevel Anterior Column Reconstruction for Positive Sagittal Balance Deformity
Mr Robert Lee

5:20 PM - 3.12 Biomechanical impact of a novel spinal implant
Dr Matthew Pelletier

5:30 PM - 7.00 PM - Welcome Reception
SATURDAY 28TH APRIL

7.15 AM - 8.15 AM  Breakfast Session – Sponsored by B.Braun

8.30 AM - 10.00 AM  FREE PAPER SESSION 4: BASIC SCIENCE / BIOMECHANICS
Chair: TBC

8:30 AM - 4.1  New Evidence for Structural Integration across the Cartilage-Vertebral Endplate Junction and its Relation to Herniation
Miss Nurul Haiza Sapiee

8:40 AM - 4.2  The lateral annulus: a much-neglected site for the initiation of herniation
Miss Vonne van Heeswijk

8:50 AM - 4.3  The Biomechanics of the Inter-Lamellar Matrix and the Lamella during Lumbar Disc Herniation: Which is the Weakest Link?
Mr Javad Tavakoli

9:00 AM - 4.4  Braced arm-to-thigh lifting appears to reduce spinal loading when compared to alternative techniques: an OpenSim investigation
Mrs Erica Beaucage-Gauvreau

9:10 AM - 4.5  The effect of removing vertebral dorsal bone on pedicle screw pullout strength
Mr Yi Yang

9:20 AM - 4.6  The effect of axial compression and distraction on cervical facet mechanics during anterior shear, flexion and axial rotation motions
Mr Ryan Quarrington

9:30 AM - 4.7  Towards a methodology to produce cervical bilateral facet dislocation and investigate the roles of axial compression and distraction on failure load and mechanism
Mr Ryan Quarrington

9:40 AM - 4.8  Effect of Surface Topography on the Bacteriostatic and Osseointegration Behavior of Silicon Nitride
Dr B. Sonny Bal

9:50 AM - 4.9  Finite Element simulation of interbody devices in ASTM standard tests show that device conformance to patient anatomy reduces stress in the vertebral bodies
Dr William Parr

10.00 AM – 10.30 AM Morning Tea

10.30 AM- 11.20 PM – PRESIDENT’S SESSION
Chair: Dr Bill Sears

Dr Peter McCombe
11.30 AM - 12.30 PM - FREE PAPER SESSION 5: CERVICAL SPINE
Chair: Dr Kevin Seex

11:20 AM - 5.1 Prospective, Multi-center Study with 24-month Follow-up Evaluating the M6-C Cervical Total Disc Replacement
Dr Jack Zigler

11:30 AM - 5.2 The CP-ESP viscoelastic cervical disc replacement: 2 years follow-up
Pr Marc-Antoine Rousseau

11:40 AM - 5.3 Cervical laminectomy with or without lateral mass instrumentation: a comparison of outcomes
Dr Boaz Kim

11:50 AM - 5.4 Analysis of Re-operations after Cervical Total Disc Replacement in a Consecutive Series of 504 Patients Receiving the ProDisc-C Device
Dr Jack Zigler

12:00 PM - 5.5 Predictors for neurological deterioration in surgical approaches to cervical spondylotic myelopathy: A review of 172 cases
Dr Srujana Vedicherla

12:10 PM - 5.6 Soft collar management for C2 odontoid process fractures: Does this affect the rates of future operative management?
Dr Saif Yousif

12:20 PM - 5.7 Treatment of cervical Degenerative Disc Disease in pathological canines by interbody fusion; no subsidence of personalized devices at 6 month and 1 year follow ups.
Dr William Parr

12.30 PM – 1.30 PM Lunch

1.30 PM – 3.30 PM SYMPOSIUM 2
Chair: Prof Brian Freeman

1.30 PM – Prof Peter Cripton – Injury Biomechanics – Applying mechanical engineering to the understanding and prevention of catastrophic injuries

2.15 PM – Debate – High grade spondylolisthesis should be reduced
   - Case for: Dr David Polly
   - Case against: Dr Justin Smith
   - Discussion

3.00 PM – 3.30 PM Afternoon Tea

3.30 PM – 4.30 PM – The Getting of Wisdom
Chair: Dr Peter Woodland
Dr Geoffrey Askin
Dr Orso Osti
Dr Leo Zeller

4.30 PM – 6.00 PM SSA Business Meeting

7.00 PM – 11.00 PM SSA Conference Gala Dinner
SUNDAY 29TH APRIL

8.30 AM - 10.00 AM FREE PAPER SESSION 6: SPINAL DEFORMITY
Chair: TBC

8:30 AM - 6.1 A novel screening tool for Adolescent Idiopathic Scoliosis – a pilot study
Mr Jeb McAviney

8:40 AM - 6.2 Quantifying anterior chest wall deformity in adolescent idiopathic scoliosis: Does it correlate with other deformity measures?
Dr Thorbjorn Loch-Wilkinson

8:50 AM - 6.3 Progression of anterior vertebral wedge angles in adolescent idiopathic scoliosis using MRI
Dr Pawel T Sowula

9:00 AM - 6.4 Spinal growth tethering leads to asymmetric growth of the apical vertebra in scoliosis
Mr Yi Yang

9:10 AM - 6.5 Sacral Obliquity and Oblique Lumbosacral Take-off in Congenital Scoliosis are Associated with Lumbar Hemivertebra
Dr Yu Chao Lee

9:20 AM - 6.6 Adolescent idiopathic scoliosis curve progression while on the surgical waiting list
Mr Michael Bai

9:30 AM - 6.7 Patient-specific Rods Show a Reduction in Rod Breakage Incidence
Dr Evalina Burger MD

9:40 AM - 6.8 Progressive Coronal Plane Changes in Vertebral and Intervertebral Disc Height: Adolescent Idiopathic Scoliosis Patients vs Non-Scoliotic Controls
Dr J Paige Little

9:50 AM - 6.9 Metal Ion Release in Children having Spinal Fusion for Scoliosis
A/Prof Peter Cundy

10.00 AM – 10.30 AM Morning Tea

10.30 AM - 12.10 PM FREE PAPER SESSION 7: OUTCOMES
Chair: TBC

10:30 AM - 7.1 Serum Metal Levels After Removal of Spinal Instrumentation
Ms Dhara Amin

10:40 AM - 7.2 A Comparative Study between CT Scan and DEXA Scan in Assessment of Osteoporosis in patients with Vertebral Fractures
Dr Ali Humadi

10:50 AM - 7.3 Meta-Analysis of Minimally Invasive Sacroiliac Joint Fusion
Dr Timothy Holt
11:00 AM - 7.4 Early and Midterm complications in Oblique Lumbar Interbody Fusion Surgery (OLIF)
Mr Reza Rahim

11:10 AM - 7.5 Modic 2 changes and smoking predict vascular adherence during anterior lumbar exposure
Dr Greg Malham

11:20 AM - 7.6 Patient-Reported Outcomes from 3,000 Minimally Invasive Spine Surgeries at a Free-Standing Ambulatory Surgery Center
Dr Reginald Davis

11:30 AM - 7.7 The impact of compensation and location of pain on the outcome of lumbar interbody fusion
Ms Emma Johnston

11:40 AM - 7.8 Attitudes to Evidence Based Medicine in the Australian Spine Surgery Community: Advocacy, Acceptance, Acquiescence, Apathy and Denial
Dr Ben Goss

11:50 AM - 7.9 Faster fusion with stand-alone interbody 3-D printed porous titanium cervical implants: Results of the EFFECT Trial
Dr Jasper Wolfs

12.00 PM – 12.30 PM – Awards and Close