7.15 - 8.15am  DEPUY SYNTHES BREAKFAST SESSION I  |  Rooms 203 / 204, Level 2
Breakfast from 7.00  Implant-based correction: Early Australian experience

8.00 - 8.45am  ARRIVAL TEA & COFFEE  |  Melbourne Room 1, Level 2

8.45am  CONFERENCE OPENING  Dr Peter Woodland & A/Prof Richard Williams

9.00 - 10.00am  FREE PAPER SESSION I  |  CERVICAL SPINE  See abstracts pages 36 - 39
Chair - Prof Brian Freeman  |  Rooms 203 / 204, Level 2

9.00  1.1  Is navigation required to avoid vertebral artery injury in C1/2- fusion?
  Prof Veit Rohde

9.08  1.2  Subaxial cervical unilateral facet joint fractures: A comparison of the functional, clinical and radiological outcomes of non-operative and surgical management
  Ms Rebecca Lewis

9.16  1.3  Impact of age on patient outcomes after total disc replacement or anterior cervical discectomy and fusion: Comparison at 5-year follow-ups
  Dr Armen Khachatryan

9.24  1.4  Stand-alone interbody devices in the treatment of cervical spine disease
  Dr Scott Blumenthal

9.32  1.5  Does cervical kyphosis affect implant choice and outcomes:
  Results from 5 year data comparing ACDF to TDR
  Dr Armen Khachatryan

9.40  1.6  Assessment of subsidence using quantitative motion analysis on first 30 patients using additive manufactured titanium truss interbody cervical cages.
  Dr Cameron Carmody

9.48  COMBINED DISCUSSION

10.00am  MORNING TEA  |  Melbourne Room 1, Level 2

10.30 - 11.30am  SOCIETY SESSION  |  See abstracts page 40
Chair - A/Prof Richard Williams  |  Rooms 203 / 204, Level 2

10.30  Billing practices/ MBS costs
  Dr Roy Carey

10.45  MBS Review
  Dr Peter Wilde

11.00  Spine Surgery within compensation systems: The past and the future
  Dr Ian Harris
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<td>11.30 - 12.30pm</td>
<td>FREE PAPER SESSION 2</td>
<td>TRAUMA</td>
<td>See abstracts pages 41 - 45</td>
<td>A/Prof Susan Liew</td>
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<tr>
<td>11.30</td>
<td>2.1</td>
<td>Redefining traumatic central cord syndrome: Does injury morphology or neurology provide butter discrimination of neurological outcomes?</td>
<td>Mr Jin Tee</td>
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<td>11.38</td>
<td>2.2</td>
<td>Early decompression following cervical spinal cord injury: Examining the process of care from accident scene to surgery in Australia and New Zealand</td>
<td>Dr Camila Battistuzzo</td>
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<td>11.46</td>
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<td>The nexus criteria are insufficient to exclude cervical spine fractures in older blunt trauma patients</td>
<td>Mr Gabriel Paykin</td>
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<td>11.54</td>
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<td>Subaxial cervical facet dislocation: A 10 year clinical and radiographic review from a single centre</td>
<td>Mr Ryan Quarrington</td>
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<td>12.02</td>
<td>2.5</td>
<td>Pedicle screw fixation, reduction and stabilization for thoraco-lumbar fractures without major neurologic deficit: A comparison of minimally invasive and open techniques</td>
<td>Dr Francis Brooks</td>
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<td>12.10</td>
<td>2.6</td>
<td>Spinal cord injury impacts bone endocrine functions</td>
<td>Dr Jillian Clark</td>
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<td>12.30pm</td>
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<td>LUNCH</td>
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<td>1.30 - 3.00pm</td>
<td>SYMPOSIUM 1</td>
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<td>See abstracts page 46</td>
<td>Dr Peter Woodland</td>
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<tr>
<td>1.30</td>
<td>1.0</td>
<td>Distilling utility from innovation: A South African perspective</td>
<td>Prof Robert Dunn</td>
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<td>2.00</td>
<td>2.0</td>
<td>Spinal osteotomies: Clinical outcome, pitfalls and complications</td>
<td>Prof Bobby KW Ng</td>
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<tr>
<td>2.30</td>
<td>3.0</td>
<td>DEBATE Minimally invasive lumbar spinal fusion techniques are the way of the future</td>
<td>The case for</td>
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<td>3.00pm</td>
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<td>AFTERNOON TEA</td>
<td>Melbourne Room 1, Level 2</td>
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3.30 - 5.30pm | FREE PAPER SESSION 3 | DEGENERATIVE LUMBAR  See abstracts pages 47 - 54

Chair - A/Prof Richard Williams  |  Rooms 203 / 204, Level 2

3.30
3.1  Indirect decompression of the neural elements by a lateral lumbar interbody cage: Radiological & clinical results
Dr Charlie Bouthors

3.38
3.2  Analysis of hospital length of stay following lumbar anterior/posterior combined fusion: Is there a disadvantage associated with shorter stays?  
Dr Scott Blumenthal

3.46
3.3  Who benefits most from individualised physiotherapy versus advice for low back disorders: Effect modifier analysis of randomised controlled trial data  
Dr Andrew Hahne

3.54
3.4  Lumbar discectomy patients at high risk of reherniation: Massive defects in a primary lumbar discectomy population
Prof Claudius Thomé

4.02
3.5  Does pre-operative magnetic resonance imaging of the lumbar multifidus muscle predict clinical outcomes following lumbar spinal decompression for symptomatic spinal stenosis?  
Dr Mario Zotti

4.10
3.6  Interspinous process spacers versus traditional decompression for lumbar spinal stenosis: Systematic review and meta-analysis
Mr Kevin Phan

4.18  COMBINED DISCUSSION

4.30
3.7  ALIF integrated screw cages: Intrinsic load generation, subsidence and torsional stability  
Mr Yusuf Assem

4.38
3.8  Individualised physiotherapy versus advice for people with low back disorders:  
A 2-year follow-up of a randomised controlled trial
Mr Luke Surkitt

4.46
3.9  Is there a standard for operative magnification for simple discectomy?  
Dr Francis Brooks

4.54
3.10  Individualised functional restoration versus advice for lumbar disc herniation with associated radiculopathy: A randomised controlled trial  
Dr Andrew Hahne

5.02
3.11  Classification & agreement of sagittal balance and lumbopelvic compensations in adults with scoliosis
Mr Larry Cohen

5.10
3.12  Prognostic factors for people with low back pain receiving physiotherapy
Mr Matt Richards

5.18  COMBINED DISCUSSION

5.30 - 7.00pm | WELCOME RECEPTION  |  Melbourne Room 1, Level 2
# Conference Program | Saturday 9 April 2016

## 7.15 - 8.15am
**NUVASIVE BREAKFAST SESSION 2** | Rooms 203 / 204
- Breakfast from 7.00
- Why alignment matters

## 8.00 - 8.30am
**ARRIVAL TEA & COFFEE** | Melbourne Room 1, Level 2
- Breakfast from 7.00
- Why alignment matters

## 8.30 - 10.00am
**FREE PAPER SESSION 4** | **TUMOUR: NEW TECHNOLOGY** Abstracts pages 56 - 62
**Chair - Dr Gerald Quan** | Rooms 203 / 204, Level 2

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<tr>
<td>8.30</td>
<td>Metastatic spine tumours: An audit of operative management in a regional centre</td>
<td>Dr Neil Mackay</td>
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<td>8.38</td>
<td>The influence of histological subtype in predicting survival of lung cancer patients with spinal metastases</td>
<td>Miss Kimberly-Anne Tan</td>
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<td>8.46</td>
<td>Molecular mechanisms behind growth and invasion of spinal metastases from human breast cancer in a mouse model</td>
<td>Miss Zumana Khair</td>
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<td>8.54</td>
<td>Is spinal surgery safe in octogenarians</td>
<td>Dr Harrison Mihailidis</td>
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<td>9.02</td>
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<td>9.10</td>
<td>Biomechanical analysis of S2AI fixation in long posterior fusion constructs</td>
<td>Dr Chet Sutterlin</td>
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<td>9.18</td>
<td>A prospective, randomized clinical trial investigating an anular closure device: Interim safety analysis</td>
<td>Prof Claudius Thomé</td>
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<td>9.26</td>
<td>Early clinical results of cortical versus traditional open pedicle screw techniques in posterior lumbar interbody fusion</td>
<td>Dr Paul Licina</td>
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<td>9.34</td>
<td>Complications associated with the anterior approach to the lumbar spine: Analysis of 2,881 consecutive cases during a 6-year period</td>
<td>Dr Scott Blumenthal</td>
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<td>9.42</td>
<td>Accuracy of robot-assisted versus fluoroscopy guided pedicle screw insertion for metastatic spinal disease: A matched cohort comparison</td>
<td>Prof Veit Rohde</td>
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## 10.00am
**MORNING TEA** | Melbourne Room 1, Level 2
- Morning tea
- Why alignment matters
10.30 - 11.10am  PRESIDENT’S SESSION  See abstract page 63
Chair - Dr Peter Woodland  |  Rooms 203 / 204, Level 2
The futility of surgery for burst fractures
Dr David Jaffray

11.10 - 12.30pm  FREE PAPER SESSION 5  |  DEFORMITY  See pages 64 - 69
Chair - Mr Michael Johnson  |  Rooms 203 / 204, Level 2

11.10 5.1  A biomechanical analysis of growing rods used in the management of early
onset scoliosis using a robotic testing facility
Dr Graham Irvin

11.18 5.2  Back pain and adolescent idiopathic scoliosis: A descriptive - correlational study
Dr Jean Theroux

11.26 5.3  Maintenance of spine flexibility with the use of semi-constrained growing rods
for early onset scoliosis in children
Dr Geoff Askin

11.34 5.4  Perioperative complications associated with spinal fusion in Rett syndrome
Mrs Maree Izatt

11.42 5.5  A critically appraised topic assessing the effect of physiotherapeutic scoliosis-specific
exercises on Cobb angle progression in adolescent idiopathic scoliosis
Ms Rebecca Harding

11.50 5.6  The early onset scoliosis biobank initiative
Ms Monique Garcia

11.58 5.7  When does compensation for lumbar stenosis become a clinical sagittal plane deformity?
Dr Aaron Buckland

12.06 5.8  School screening for scoliosis: A review of the world literature and the place
of the National Self-Detection Program for scoliosis (NSDP)
Dr Andrew Cree

12.14 5.9  Analysis of pedicle morphometry in adolescent idiopathic scoliosis
Dr Colin Davis

12.22 COMBINED DISCUSSION

12.30pm LUNCH  |  Melbourne Room 1, Level 2
CONFERECE PROGRAM  |  SATURDAY 9 APRIL 2016

1.30 - 3.00pm  SYMPOSIUM 2  See abstracts page 70

Chair - Dr Rob Kuru  |  Rooms 203 / 204, Level 2

1.30  Where 3rd world meets 1st world: A spine surgeon’s playground
Prof Robert Dunn

2.15  Anterior spinal fusion for thoracolumbar scoliosis
Prof Bobby KW Ng

3.00pm  AFTERNOON TEA  |  Melbourne Room 1, Level 2

3.30 - 4.30pm  THE GETTING OF WISDOM  See abstracts page 71

Chair - Dr Peter Woodland  |  Rooms 203 / 204, Level 2

3.30  Making a little mistake pay
Dr Peter Turner

3.50  Looking for balance
Dr Kevin Seex

4.10  The business of medicine
Dr Paul Licina

4.30 - 6.00pm  SSA BUSINESS MEETING

7.00 - 11.00pm  SSA CONFERENCE GALA DINNER

Rivers Edge Events  |  18 - 38 Siddeley St, Melbourne

River’s Edge Events is a fifteen minute walk from MCEC however coaches are available and will depart from MCEC, Hilton and the Grand Hotel at 6.45pm.
### Conference Program | Sunday 10 April 2016

#### 7.15 - 8.15am
**SIGNUS Australia Breakfast Session 3**  
*Rooms 203 & 204*  
*Chair: Mr Tiew Han*

- Improving osseointegration in the spinal surgery with intervertebral fusion implants
  - **Presenters:** Prof Bill Walsh, Mr Erik Siedler, Mr Michael Wong, Mr Andrew Miles

#### 8.00 - 8.30am
**Arrival Tea & Coffee**  
*Foyer 2.3, Level 2*

#### 8.30 - 10.00am
**Free Paper Session 6**  
*NEW TECHNOLOGY; COMPLICATIONS*  
*Pages 74 - 81*

- **Chair:** Dr Peter Wilde  
  *Rooms 203 & 204, Level 2*

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<td>Complications of anterior spine surgery: A two year retrospective study of a two surgeon practice</td>
<td>Dr Laurence McEntee</td>
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<td>8.38</td>
<td>Mechanical and geometric analysis of fenestration design for polymethylmethacrylate augmented pedicle screw fixation</td>
<td>Dr Michael Selby</td>
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<td>8.46</td>
<td>Evaluation of clinical and radiological outcome following XLIF for single-level low grade lumbar spondylolisthesis: Emphasis on sagittal balance and deformity correction</td>
<td>Dr Li Kuin Chang</td>
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<tr>
<td>8.54</td>
<td>Complications of cortical screw fixation in the lumbar spine: A 3-year learning curve</td>
<td>Dr Tharsa Thillainadesan</td>
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<tr>
<td>9.02</td>
<td>Management of unstable fractures of the ankylosed spine using a minimally invasive surgical technique: A comparative cohort study</td>
<td>Dr Francis Brooks</td>
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<td>Clinical outcomes of Oblique Lumbar Interbody Fusion (OLIF)</td>
<td>Mr Charles Haward</td>
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<td>9.18</td>
<td>Combined aortoiliac and anterior lumbar spine reconstruction</td>
<td>Dr Laurence McEntee</td>
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<td>9.26</td>
<td>Factors influencing the need for revision lumbar discectomy: How important is annular defect size?</td>
<td>Dr Paul Licina</td>
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<td>9.34</td>
<td>Risk of total hip arthroplasty dislocation after spinal deformity correction</td>
<td>Dr Aaron Buckland</td>
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<td>9.42</td>
<td>Subsidence following Anterior Lumbar Interbody Fusion (ALIF): A prospective radiographic study</td>
<td>Dr Prashanth Rao</td>
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<td>9.50</td>
<td>The viscoelastic LP-ESP lumbar disc prosthesis with 6 degrees of freedom: A 5 years prospective study in 88 patients. The concept of “silent block prosthesis” fulfills our expectations in terms of clinical outcomes and restitution of range of motion and centers of rotation.</td>
<td>Prof Jean Yves Lazennec</td>
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<td>10.30</td>
<td>7.1</td>
<td>Ex vivo loading of 4web truss anterior lumbar interbody implant induces strains consistent with mechanobiological maintenance of bone homeostasis</td>
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<td>Intervertebral cage position influences lordosis in lumbar spine reconstruction with Posterior Lumbar Interbody Fusion (PLIF): A controlled cadaveric study</td>
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<td>10.46</td>
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<td>Creating lordosis in transforaminal and posterior lumbar interbody fusion (TLIF/PLIF): The impact of surgical technique - A controlled cadaveric study</td>
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<td>The effect of degeneration on the six degree of freedom mechanical properties of human spine segments</td>
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<td>How does vibration disrupt the disc? A mechanical and microanatomical investigation</td>
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<td>Loading the entire vertebral endplate leads to a four-fold increase in compressive strength</td>
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<td>Multi-level histological analysis of an ovine cervical spine intervertebral disc degeneration mode</td>
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<td>Determinants of segmental lordosis in lumbar interbody fusion using a biomimetic spinal construct</td>
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<td>Changes in tissue diffusion and anisotropy following mechanical loading of ovine anulus fibrosus: A pilot study using magnetic resonance imaging</td>
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