



SSS 8th Annual Meeting in conjunction with AO Masterclass Course

29 – 30 March 2025 | Grand Copthorne Waterfront Hotel | Singapore

A NEW WAY FORWARD: ENABLING TECHNOLOGIES FOR VALUE BASED CARE

SSS President **Shree Kumar Dinesh**

Programme Co-chairs **Jacob Oh and Reuben Soh**

Day 1 - 29 March 2025

Time	Waterfront Ballroom	Riverfront Ballroom
07:00-16:30	Registration	
07:30-08:15	<p>Meet The Experts: Spine Trauma/Infection <u>Panel</u> Kenny Kwan, Hong Kong Jitesh Manghwani, India Singapore - Lee Haw Chou Ng Yeong Huei Li Yung Hua</p> <p>07:30-07:35 Cervical Trauma – Dalun Leong, Singapore</p> <p>07:35-07:40 Spondylodiscitis – Alex Teo, Singapore</p> <p>07:40-07:45 Neglected Burst Fracture – Joshua Decruz, Singapore</p> <p>07:45-08:15 Discussion</p>	
08:15-09:15	<p>Symposium 1: Emerging Trends in Spine Surgery <u>Moderators</u> Singapore - Joseph Thambiah Yue Wai Mun Mark Tan</p> <p>08:15-08:25 Vertebral Body Tethering - The New Way Forward – Per Trobisch, Germany</p> <p>08:25-08:35 Hybrid Fusion to Prevent Adjacent Segment Disease: My 18 Year Experience – David Wong, Singapore</p> <p>08:35-08:45 Augmented Reality for Spine Surgery – Lester Lee, Singapore</p> <p>08:45-08:55 Robotics and ERAS – The Dynamic Duo – Wayne Yap, Singapore</p> <p>08:55-09:15 Q & A</p>	
09:15-10:00	<p>Opening Address <u>Moderators</u> Singapore – Tan Seang Beng Yeo Tseng Tsai</p> <p>09:15-09:20 Shree Kumar Dinesh, President of Singapore Spine Society</p> <p>Keynote Lecture 09:20-09:45 The Singapore Spine Story – Wong Hee Kit, Singapore</p> <p>09:45-10:00 Q & A</p>	
10:00-10:30	<p>Group Photo Taking</p> <p>Morning Tea</p>	
10:30-11:30	<p>Symposium 2: ASEAN Leaders Forum I <u>Moderators</u> Dong Ki Ahn, Korea Singapore - John Chen Gabriel Liu</p> <p>10:30-10:40 Challenges in Adult Deformity Surgery - Brian Hsu, Australia</p> <p>10:40-10:50 Single Position LLIF Lateral vs Prone: Rationale and Technical Aspect - Wicharn Yingsakmongkol, Thailand</p> <p>10:50-11:00 Post-operative Coronal Imbalance in Lenke 5/6 Adolescent Idiopathic Scoliosis Patients - Chris Chan, Malaysia</p> <p>11:00-11:10 Modified Hybrid MIS-TLIF, What We Do? - Shah Alam, Bangladesh</p> <p>11:10-11:30 Q & A</p>	

Time	Waterfront Ballroom	Riverfront Ballroom
11:30-12:30	<p>Symposium 3: Endoscopic Spine <u>Moderators</u> Singapore - Huang Yilun Ang Mu Liang Wu Pang Hung</p> <p>11:30-11:40 Awake Spine Surgery – Thomas Tan, Singapore</p> <p>11:40-11:50 Endo-LIF, An Upcoming Trend in Thailand Endoscopic Scene – Akarawit Asawasaksakul, Thailand</p> <p>11:50-12:00 Cervicogenic Headache Resolved after Bilateral Posterior Endoscopic Cervical Foraminotomy – Toh Chang Jeng, Malaysia</p> <p>12:00-12:10 Value of Endoscopic Spine Surgery in Singapore – Gamaliel Tan, Singapore</p> <p>12:10-12:30 Q & A</p>	<p>Nursing Symposium 1 <u>Moderators</u> Singapore – Lin Lilin Lillian Ow Emily Ang</p> <p>11:50-11:55 Opening Session</p> <p>11:55-12:05 Value Based Care: ERAS Spine Protocol: Nursing Perspective on Implementing Evidence-based Recovery - Rajashulakshana d/o Rajaram</p> <p>12:05-12:15 Revolutionizing Spine Care: The Role of Conservative Management and Telemedicine in Neurosurgical Nursing - Emily Ang</p> <p>12:15-12:25 A Scoliosis Journey: The Role of Value-based Care in Transforming Lives – Nurhuda Natasha Binte Mohamed</p> <p>12:25-12:30 Q & A</p>
12:30-13:30	<p>Lunch Symposium: Making It Straight Again (sponsored by MEDTRONIC) <u>Moderator</u> Gabriel Liu, Singapore</p> <p>12:30-12:50 Correction Techniques in Adult Deformity – Kenny Kwan, Hong Kong</p> <p>12:50-13:10 Technology En-AiBLEs Me to do more with Deformity – Jacob Oh, Singapore</p> <p>13:10-13:30 Q & A</p>	
13:30-14:50	<p>Free Paper Session I <u>Moderators</u> Akarawit Asawasaksakul, Thailand Lin Shuxun, Singapore</p> <p>13:30-13:34 ID1 Mounting the Learning Curve in Unilateral Biportal Endoscopic Lumbar Decompression in an Asian Population: Experience of a Single Surgeon's First 105 Consecutive Cases with Early Functional Outcomes – Vincentius Edward Lie, Singapore</p> <p>13:34-13:38 ID27 Surgical Correction of Post Tubercular Cervical Kyphotic Deformity: BSOH Experience - Shah Alam, Bangladesh</p> <p>13:38-13:42 ID23 Functional Independence Measure (FIM) on Admission is a Good Predictor of Medium-term Outcomes for Acute Traumatic Central Cord Syndrome - A Aravin Kumar, Singapore</p> <p>13:42-13:46 ID29 Comparing Uniportal and Biportal Endoscopic Techniques in Lumbar Discectomy and Decompression: Which Approach Yields Superior Outcomes? – Ong Sing Li Samuel, Singapore</p> <p>13:46-13:51 Q & A</p> <p>13:51-13:55 ID17 Pearls and Pitfalls of Endoscopic Spine Surgery in Spinal Metastasis: A Systematic Review – Siravich Suvithayasiri, Thailand</p> <p>13:55-13:59 ID3 Impact of Lateral Mass Fixation on axial Neck Pain and Quality of Life in Cervical Spondylotic Myelopathy: A 6 Month Study at a Tertiary Hospital in Butwal, Nepal – Yudhisthir Raj Khadka, Nepal</p> <p>13:59-14:03 ID19 Trends in Spinal Decompression Surgery in Sengkang General Hospital: A Descriptive Observation Study – Lee Kai Lin, Singapore</p>	<p>Free Paper Session II <u>Moderators</u> Jitesh Manghwani, India Terry Teo, Singapore</p> <p>13:30-13:34 ID32 Effect of Sarcopenia on Post-operative Outcomes in Patients with Spine Metastases - Tan Wen Po Jonathan, Singapore</p> <p>13:34-13:38 ID13 Does Salvaged Blood Transfusion reduce Allogenic Blood use in Metastatic Spine Tumour Surgery? A Prospective Comparative Study - Hui Si Jian, Singapore</p> <p>13:38-13:42 ID8 Robot Assisted Navigation Guided Percutaneous Thoracolumbar Fracture Fixation in Neurologically Intact Individuals - Jitesh Manghwani, India</p> <p>13:42-13:46 ID16 Complication Rates in AIS Patients with COBB Angle $\geq 70^\circ$: A Comparative Analysis of Surgical Approaches - Leyu Ge Yan Cayden, Singapore</p> <p>13:46-13:51 Q & A</p> <p>13:51-13:55 ID30 Efficacy of Schroth Exercises in Management of Adolescent Idiopathic Scoliosis within Asia – Chua Hui Zhen Grace, Singapore</p> <p>13:55-13:59 ID11 Carbon-fiber Reinforced Polyetheretherketone (CFR-PEEK) Instrumentation in Metastatic Spine Tumour Surgery: Technical Pearls and Potential Pitfalls to Avoid – Hui Si Jian, Singapore</p> <p>13:59-14:03 ID35 A Risk Quantification Reference Table for Progressed Adolescent Idiopathic Scoliosis Surgery: An Exact Case Matched Outcomes Analysis - Neo Bo Xiang Bryan, Singapore</p> <p>14:03-14:08 Q & A</p>

<p>14:03-14:07</p> <p>14:07-14:12</p> <p>Free Paper Session I.....</p> <p><u>Moderators</u> Singapore - Chew Zhi Hong Christian Heng</p> <p>14:12-14:16</p> <p>14:16-14:20</p> <p>14:20-14:24</p> <p>14:24-14:28</p> <p>14:28-14:33</p> <p>14:33-14:37</p> <p>14:37-14:41</p> <p>14:41-14:45</p> <p>14:45-14:50</p>	<p>ID26 Solid Rod Tether for Thoracic Scoliosis? An Analysis of Progressive Curve Straightening and Overcorrection Behaviour in Anterior Single Rod Fusion for Thoracic Scoliosis with Minimum 5-year Follow-up - Law Gin Way, Singapore</p> <p>Q & A</p> <p>ID14 Accuracy of Postero-superior Iliac Spine Reference Array Placement in Robot-navigated Spine Surgery – Joseph Wan, Singapore</p> <p>ID7 The Utility of MRI for Spinal Clearance in Blunt Trauma: A Study in a Level 1 Trauma Center in Singapore – Heng Woon Theng, Singapore</p> <p>ID18 Endoscopic-assisted Retroperitoneal Approach for the Devastating Spondylodiscitis with Psoas Abscess – Siravich Suvithayasiri, Thailand</p> <p>ID28 Transformative Surgical Solutions for Adolescent Idiopathic Scoliosis: Achieving Optimal Outcomes with Minimal Instrumentation – Shah Alam, Bangladesh</p> <p>Q & A</p> <p>ID15 Comparative Cost-effectiveness and Surgical Technique Comparative Analysis between two Robot-assisted Platforms in Minimally Invasive Transforaminal Interbody Fusion (MIS-TLIF) - Joseph Wan, Singapore</p> <p>ID33 Clinical Outcomes and Factors Influencing Success in Endoscopic Spine Surgery: A Retrospective Single-center Study in Singapore - Thng Wen Cong John, Singapore</p> <p>ID34 Sacral Tarlov Cyst -A Rare Cause of Lower Limb Radiculopathy in a Child - Venkata Srujana Vedicherla, Singapore</p> <p>Q & A</p>	<p>Free Paper Session II...</p> <p><u>Moderators</u> Singapore - Nishal Primalani Tan Jun Hao</p> <p>14:08-14:12</p> <p>14:12-14:16</p> <p>14:16-14:20</p> <p>14:20-14:25</p> <p>14:25-14:29</p> <p>14:29-14:33</p> <p>14:33-14:37</p> <p>14:37-14:42</p> <p>ID22 90 Days Post-operative Outcomes in Patients Undergoing Novel C3 Dome C7 Reverse Dome Open-door Laminoplasty - A Retrospective Study of Clinical Outcome Data – Choo Shun Hong Jeremie, Singapore</p> <p>ID2 Robotic-assisted Versus Conventional Lumbar Spine Pedicle Screw Insertion: A Systematic Review and Meta-analysis of Randomised Controlled Trials - Vikaesh Moorthy, Singapore</p> <p>ID10 Thoracic Posterior Dynamic Deformity Correction (PDDC) is Better than Lumbar PDDC for Growth Modulation in Adolescent Idiopathic Scoliosis (AIS) - Poon Mu En Glenys, Singapore</p> <p>Q & A</p> <p>ID9 Filling the Gap in the Global Alignment and Proportion Score in Adult Spinal Deformity Surgery – A 5-year Follow-up Study - Jitesh Manghwani, India</p> <p>ID36 Does Adult Lumbar Scoliosis Affect the Lumbar Spine T-score Accuracy in the Diagnosis of Osteoporosis – A Review of over 6900 Asian Patients - Neo Bo Xiang Bryan, Singapore</p> <p>ID20 Titanium (Ti) Cages may be Superior to Polyetheretherketone (Peek) Cages in Lumbar Interbody Fusion: A Systematic Review and Meta-analysis of Clinical and Radiological Outcomes of Spinal Interbody Fusion using Ti versus Peek Cages - Leyu Ge Yan Cayden, Singapore</p> <p>Q & A</p>
<p>14:50-15:50</p>	<p>Symposium 4: Dilemmas in Cervical Surgery</p> <p><u>Moderators</u> Shah Alam, Bangladesh Colum Nolan, Singapore</p> <p>14:50-15:00 Surgical Approaches for the Management of Cervical Radiculopathy – Ang Chay You, Singapore</p> <p>15:00-15:10 Surgery for OPLL: When I go Posterior – Nivedh Dinesh, Singapore</p> <p>15:10-15:20 Surgery for OPLL: when I go Anterior – Ling Ji Min, Singapore</p> <p>15:20-15:30 Management of Cervical Spine Deformity – Gabriel Liu, Singapore</p> <p>15:30-15:50 Q & A</p>	<p>Nursing Symposium 2</p> <p><u>Moderators</u> Singapore – Lin Lilin Lilian Ow Emily Ang</p> <p>14:50-15:00 Spine Surgery and Wound Management: Essential Insights for Nursing Professionals – Reuben Soh</p> <p>15:00-15:10 Healing Made Simple: Managing an Uncomplicated Spine Wound - Emily Ang</p> <p>15:10-15:20 The Role of NPWT in Spine Wound Management: A Case Study - Lilian Ow</p> <p>15:20-15:30 When Surgery is the Answer: Managing Complex Spine Wounds with Debridement - Lin Lilin</p> <p>15:30-15:50 Q & A</p>
<p>15:50-16:20</p>	<p>Afternoon Tea Symposium (sponsored by JOHNSON & JOHNSON MEDTECH)</p> <p><u>Moderator</u> Jiang Lei, Singapore</p> <p>Soft Tissue Management in Spine – Lim Yee Gen, Singapore</p>	

Time	Waterfront Ballroom	Riverfront Ballroom
16:20-17:10	<p>Symposium 5: Young Surgeons Forum – Case I Learnt the Most</p> <p><u>Panel</u> Chris Chan, Malaysia Singapore - Roy Koh Fong Poh Ling Eugene Yang</p> <p>16:20-16:30 C1-2 Fusion – What Could Go Wrong? – Ou Yang Youheng, Singapore</p> <p>16:30-16:40 Psoas Haematoma – David Mak, Singapore</p> <p>16:40-16:50 L5 En Bloc Spondylectomy – Wayne Yap, Singapore</p> <p>16:50-17:00 A Rare Case of Thoracic Spine Tumour – Damian Lee, Singapore</p> <p>17:00-17:10 Q & A</p>	
17:10-18:00	<p>Symposium 6: How I Do It – Video Session</p> <p><u>Moderators</u> Singapore - Marcus Ling Lau Leok Lim Aravind Kumar</p> <p>17:10-17:20 Endoscopic Fusion – Wu Pang Hung, Singapore</p> <p>17:20-17:30 C ADR – Dennis Hey, Singapore</p> <p>17:30-17:40 Spinal Cord Decompression for Separation Surgery – Jonathan Tan, Singapore</p> <p>17:40-18:00 Q & A</p>	
18:00–18:30	<p>Evening Symposium: Percutaneous Treatment for Vertebral Compression Fracture (sponsored by EPLUS HEALTHCARE)</p> <p><u>Moderator</u> Li Yung Hua, Singapore</p> <p>17:50-18:00 Updates in the Management of Osteoporotic Fractures – Reuben Soh, Singapore</p> <p>18:00-18:10 Percutaneous Vertebral Body Augmentation in the Treatment of Osteoporotic Thoracolumbar Compression Fractures – Ou Yang Youheng, Singapore</p> <p>18:10-18:20 Q & A</p>	
18:30-21:00	<p>Singapore Spine Society Annual Dinner (Riverfront Ballroom)</p> <p>18:30-18:40 Welcome Address - Shree Kumar Dinesh, President of Singapore Spine Society</p> <p> Dinner Commences</p> <p>19:00-19:15 Overseas Training in Spine Surgery</p> <ul style="list-style-type: none"> • Ou Yang Youheng, Singapore • Resident 	



Day 2 - 30 March 2025

Time	Waterfront Ballroom
07:30-16:00	Registration
08:00-08:45	<p>Breakfast Symposium: Cervical Disc Arthroplasty (sponsored by TRANSMEDIC)</p> <p><u>Moderator</u> Ling Ji Min, Singapore</p> <p>08:00-08:15 How do I Choose Implant Design and Dimensions? – Dennis Hey, Singapore</p> <p>08:15-08:30 How do I Choose Implant Anchors? – Chew Zhi Hong, Singapore</p> <p>08:30-08:45 Q & A</p>
08:45-09:33	<p>Singapore Spine Society Best Papers</p> <p><u>Moderators</u> Singapore – Naresh Kumar Jiang Lei</p> <p><u>Judges</u> Chris Chan, Malaysia Dipak Shrestha, Nepal Wen-Tien Wu, Taiwan John Chen, Singapore</p> <p>08:45-08:53 ID5 Posterior only Instrumentation without Fusion in Thoracolumbar Burst Fractures - Bishnu Dev Sharma, Nepal</p> <p>08:53-09:01 ID31 The Impact of Smoking Anterior Cervical Discectomy and Fusion with Standalone Cages: Radiological and Functional Outcomes - Cassie Yang, Singapore</p> <p>09:01-09:09 ID12 Shaping the Future of Blood Management in Metastatic Spine Tumour Surgery: The Case for Cell-Salvaged Transfusion with a Propensity Matched Study - Hui Si Jian, Singapore</p> <p>09:09-09:17 ID4 Comparison of Topical Methylprednisolone 40 vs 80 MG on Postoperative Dysphagia after Multi level ACDF: A Randomized, Double-blinded, Controlled Trial of Topical Methylprednisolone 40 vs 80 MG on Postoperative Dysphagia after Multi level ACDF: A Randomized, Doubleblinded, Controlled Trial - Natcha Chutchomchuen, Thailand</p> <p>09:17-09:25 ID24 Comparison of C1 Expansive Open-door Laminoplasty and C1 Laminectomy with Occipito-cervical Fusion in Cervical Myelopathy with Lordotic Alignment: Sagittal Balance and Clinical Outcomes - Chen Hao-Wen Howard, Taiwan</p> <p>09:25-09:33 ID6 The Impact of “Keyhole” when Discussing Spine Surgery – A Deep Dive into Patients' Perception of Minimally Invasive Spine Surgery - Chen Yeh Siang Joel, Singapore</p>
09:35-10:30	<p>Symposium 7: ASEAN Leaders Forum II</p> <p><u>Moderators</u> Jephtah Furano, Indonesia Wicharn Yingsakmongkol, Thailand John Chen, Singapore</p> <p>09:35-09:45 Lateral ALIF & OLIF with Posterior Instrumentation to Restore Distal Lumbar Lordosis - Wen-Tien Wu, Taiwan</p> <p>09:45-09:55 Strategy Against Surgical Site Infection – Dong Ki Ahn, Korea</p> <p>09:55-10:05 Challenging Case in the Upper Cervical Spine: Anterior or Posterior Approach or Both!" - Dipak Shrestha, Nepal</p> <p>10:05-10:15 Burnout in Spine Surgeons: The Hidden Cost of Value-based Care - Jephtah Furano, Indonesia</p> <p>10:15-10:30 Q & A</p>
10:30-11:00	Morning Tea

Day 2 - 30 March 2025

Time	Riverfront Ballroom	
10:30-11:00	Registration	
11:00-11:05	Welcome Address – Reuben Soh, Singapore	
	Session 1: VBT Complications	
11:05-11:15	Complications in Tethering <u>Moderator</u> Kenny Kwan, Hong Kong 11:05-11:08 Case presentation – Per Trobisch, Germany 11:08-11:11 Case presentation – Kenny Kwan, Hong Kong 11:11-11:14 Case presentation – Lau Leok Lim, Singapore	
11:15-12:10	Discussion and Presentation <ul style="list-style-type: none"> • Case discussion – 8 mins • Case presentation – 3 mins • Solution by presenter – 3 mins (15 mins for each case)	Group 1 Reuben Soh, Singapore Group 2 Per Trobisch, Germany Group 3 Lau Leok Lim, Singapore Group 4 Brian Hsu, Australia Group 5 Wong Hee Kit, Singapore
12:10-13:10	SSS Lunch Symposium (sponsored by GLOBUS MEDICAL) (Waterfront Ballroom) <u>Moderator</u> Wong Hee Kit, Singapore Updates in Vertebral Body Tethering – Reuben Soh, Singapore	
	Session 2: Deformity Complications	
13:10-13:20	Complication in Deformity (adult) <u>Moderator</u> Per Trobisch, Germany 13:10-13:13 Case presentation – Lau Leok Lim, Singapore 13:13-13:16 Case presentation – Brian Hsu, Australia 13:16-13:19 Case presentation – Jacob Oh, Singapore	
13:20-14:15	Discussion and Presentation <ul style="list-style-type: none"> • Case discussion – 8 mins • Case presentation – 3 mins • Solution by presenter – 3 mins (15 mins for each case)	Group 1 Reuben Soh, Singapore Group 2 Wong Hee Kit, Singapore Group 3 Lau Leok Lim, Singapore Group 4 Brian Hsu, Australia Group 5 Kenny Kwan, Hong Kong
	Session 3: MIS Surgery - Endoscopic Complications	
14:15-14:25	Complications in Uniportal Endoscopy, Biportal Endoscopy <u>Moderator</u> Wu Pang Hung, Singapore 14:15-14:20 Case presentation – Wu Pang Hung, Singapore 14:20-14:25 Case presentation – Ang Mu Liang, Singapore	
14:25-15:20	Discussion and Presentation <ul style="list-style-type: none"> • Case discussion – 8 mins • Case presentation – 3 mins • Solution by presenter – 3 mins (15 mins for each case)	Group 1 Reuben Soh, Singapore Group 2 Jacob Oh, Singapore Group 3 Lau Leok Lim, Singapore Group 4 Brian Hsu, Australia Group 5 Kenny Kwan, Hong Kong
15:20-15:35	Afternoon Break	

Time	Riverfront Ballroom	
	Session 4: General MIS Complications	
15:35-15:45	Complications in MIS <u>Moderator</u> Lau Leok Lim, Singapore 15:35-15:40 Case presentation – Wu Pang Hung, Singapore 15:40-15:45 Case presentation – Brian Hsu, Australia	
15:45-16:40	Discussion and Presentation <ul style="list-style-type: none"> • Case discussion – 8 mins • Case presentation – 3 mins • Solution by presenter – 3 mins (15 mins for each case)	Group 1 Shree K Dinesh, Singapore Group 2 Jacob Oh, Singapore Group 3 Lau Leok Lim, Singapore Group 4 Brian Hsu, Australia Group 5 Kenny Kwan, Hong Kong
16:40-16:50	Final Summary and Post Event Survey - Reuben Soh, Singapore	
16:50-17:00	Presentation of SSS Awards and Closing by Shree K Dinesh, President of SSS	