Asia Pacific Spine Society 7th Annual Meeting 2024 (APSS 2024) Free Paper Presentations

15 June 2024 (Saturday)

Free paper (1) – Endoscopy

08:50 – 09:50 (Room S221)

Moderators: Cho Yau Lo (Hong Kong SAR) and Takaki Yoshimizu (Japan)

Time	Abstract	Abstract Presenter	Abstract Topic
	Number	(Country / Region)	
08:50 –	4	Wongthawat	Full endoscopic over-the-top decompression
08:54		Liawrungrueang	for single-level lumbar spinal stenosis: A
		(Thailand)	single-center experience
08:54 –	45	Qingpeng Gao (China)	Learning curve for percutaneous endoscopic
08:58			lumbar discectomy (PELD)
08:58 –	37	Takaki Yoshimizu	Short-term outcomes of biportal endoscopy-
09:02		(Japan)	assisted extraforaminal interbody fusion
09:02 -	41	Ishant Gunadala	Ultrasound guidance in lumbar unilateral
09:06		(India)	biportal endoscopy
09:06 -	61	Seung Deok Sun	Comparative analysis endoscopic L5-S1
09:10		(South Korea)	foraminotomy vs Biportal endoscopic L5-S1
			fusion
09:10 -	97	Pramod Sudarshan	Results of single level discectomy and
09:14		(India)	decompression by Unilateral Biportal
			Endoscopy (UBE) – Does it have the
			potential to become a gold standard
			technique?
09:14 –	104	Jae Hung Shin (South	The Safety of Full Endoscopic spine surgery
09:18		Korea)	(Uniportal endoscopy) from the perspective
			of the amount of infusion fluid and MRI scan
09:18 –	125	Yu-Hsiang Su (Taiwan)	Surgical and Functional Outcomes of
09:22			Biportal Posterolateral Endoscopic Lumbar
			Interbody Fusion via Percutaneous Pedicle
			Screw Incisional Wounds- a case series
09:22 –	73	Nantaka	Feasibility of Endoscopic Lumbar Discectomy
09:26		Tepaamorndej	in a Remote Government Hospital in
		(Thailand)	Thailand: A Cost-Utility Analysis
09:26 –	251	Lương Minh Quang	Full endoscopic laminectomy – a more
09:30		(Viet Nam)	minimally invasive and muscle preserving
			treatment for cervical spondylotic
			myelopathy: A case series.

Free paper (2) – AIS 1

08:50 - 09:50 (Room S224-225)

Moderators: Graham Shea (Hong Kong SAR) and Hideki Shigematsu (Japan)

Time	Abstract Number	Abstract Presenter (Country / Region)	Abstract Topic
08:50 – 08:54	56	Kwan Tung Teenie Wong (Hong Kong)	Vertebral Body Tethering of Main Thoracic Curve Results in Spontaneous correction in Untethered Proximal Thoracic Cobb and Shoulder Balance: A Three- Dimensional Analysis
08:54 – 08:58	59	Jungwook Lim (South Korea)	Clinical effect of intraoperative use of tranexamic acid in Minimal invasive scoliosis surgery (MISS) in patients with adolescent idiopathic scoliosis
08:58 – 09:02	60	Jungwook Lim (South Korea)	Thoracic Chord Length in Scoliosis using the Ideal Pedicle Entry Point based on Facet Joint: A computed tomography study
09:02 – 09:06	67	Takahiro Kitagawa (Japan)	Pelvic incidence as a predictor of proximal junctional kyphosis in Lenke type 5 adolescent idiopathic scoliosis patients
09:06 – 09:10	71	Kwan Tung Teenie Wong (Hong Kong SAR)	Vertebral Body Tethering Results in Improvement in Coronal Cobb Angle but Deterioration in Axial Rotation, A 3-Dimensional Analysis
09:10 - 09:14	103	Dong-Gune Chang (South Korea)	Long-term Follow-up Rotational Changes After Direct Vertebral Rotation in Adolescent Idiopathic Scoliosis
09:14 – 09:18	127	Glenys Poon (Singapore)	Mid to Long-term Outcomes of Thoracoscopic Anterior Selective Thoracic Fusion in Adolescent Idiopathic Scoliosis (AIS) for in Lenke 1 & 2 curves – a Minimum 2 year Follow-up Review
09:18 – 09:22	141	Sin Ying Lee (Malaysia)	Deriving a Favourable Intraoperative Lowest Instrumented Vertebra (LIV) Tilt Angle using Preoperative Left Supine Side-Bending (LSB) Radiographs For Lenke Type 1 And 2 (Non- AR Curves) Adolescent Idiopathic Scoliosis (AIS) Patients
09:22 – 09:26	147	Siti Mariam Mohamad (Malaysia)	Prediction of the Optimal Upper Instrumented Vertebra (UIV) Tilt Angle based on the Pre-operative Erect Radiograph for Lenke Type 1 and 2 Adolescent Idiopathic Scoliosis (AIS) Patients
09:26 – 09:30	149	Siti Mariam Mohamad (Malaysia)	Postoperative Medial Shoulder, Lateral Shoulder and Neck Imbalance among 120 Lenke 1 and 2 Adolescent Idiopathic Scoliosis (AIS) Patients with a Minimum of 5-Year Follow-Up

Free paper (3) – Tumor & infection

08:50 - 09:50 (Room S226-227)

Moderators: Yat Wa Wong (Hong Kong SAR) and Shanmuganathan Rajasekaran (India)

Time	Abstract	Abstract Presenter	Abstract Topic
	Number	(Country / Region)	
08:50 -	57	Mamer Rosario	Early postoperative outcomes of posterior
08:54		(Philippines)	spinal TB surgeries – a single-institutional
			prospective analysis of 15 consecutive cases
08:54 -	58	Mamer Rosario	Awareness of trainees on diagnosing TB
08:58		(Philippines)	spondylitis – an analysis of cross-sectional
			data among Filipino orthopaedic residents
08:58 –	62	Junlong Zhong	The Safety and Efficacy of PVCR in Treating
09:02		(China)	Severe Thoracolumbar Pott's Deformity in
			More Than 5-year Follow-up
09:02 –	138	Aakash Jain (India)	Defining Surgical Indication for Instability in
09:06			Spinal Tuberculosis: Validation Analysis of
			Tuberculosis Spine Instability Score (TSIS)
09:06 -	168	Qiujiang Li (China)	Adherence of Mycobacterium Tuberculosis
09:10			on Material Surface of Nano-
			hydroxyapatite/polyamide 66 Composite and
			Long-term Results of Clinic Application to
			Spinal Tuberculosis
09:10 -	202	Vivek Shankar (India)	Analysis of Midterm Clinical and Functional
09:14			Outcomes Following Sacrectomy for Primary
			Malignant Sacral Tumors: A Single Tertiary
			Care Center Study on Posterior-Only
			Approach without Reconstruction
09:14 –	222	Shanmuganathan	Does the Gut microbiome influence disc
09:18		Rajasekaran (India)	health and disease? –the interplay between
			dysbiosis, pathobionts, and disc
			inflammation
09:18 –	223	Shanmuganathan	An Algorithm for the Posterior Only Surgical
09:22		Rajasekaran (India)	Correction of Kyphosis in Thoracic and
			Thoracolumbar Spinal Tuberculosis
09:22 –	227	Si Jian Hui	Does intraoperative cell-salvaged autologous
09:26		(Singapore)	blood transfusion in metastatic spine tumour
			surgery improve long-term clinical
			outcomes? A prospective clinical study
09:26 –	228	Si Jian Hui	Implant and construct decision making in
09:30		(Singapore)	metastatic spine tumour surgery

Best Paper Presentation – Basic science

13:20 - 14:20 (Room S221)

Moderators: Daisuke Sakai (Japan) and Ajoy Prasad Shetty Tonse (India)

Time	Abstract Number	Abstract Presenter (Country / Region)	Abstract Topic
13:20 – 13:23	-	Hak Sun Kim (South Korea)	Introduction of ASJ
13:23 – 13:29	220	Karthik Ramachandran (India)	Unraveling Complement Protein C1q Dysregulation: Insights from Plasma and Tissue Proteomics in Degenerative Disc Disease
13:29 – 13:35	26	Prudence WH Cheung (Hong Kong SAR)	Impaired Glycine Neurotransmission Causes Adolescent Idiopathic Scoliosis: A Novel Variant and Functional Pathway
13:35 – 13:41	64	Junlong Zhong (China)	Biomechanical Comparison of Different Instrumentations for Severe Thoracolumbar Pott's Deformity after PVCR: A Finite Element Study
13:41 – 13:47	119	Aman Verma (India)	Can a simple smartphone be a cornerstone in School Health screening program for detecting scoliosis in resource poor developing countries? – Revisiting the "Scoliometer"
13:47 – 13:53	128	Adam Yiu Chung Lau (Hong Kong SAR)	Early prediction of curve progression to surgical threshold in Adolescent Idiopathic Scoliosis with bone microarchitecture phenotyping – a step closer to Precision Medicine
13:53 – 13:59	132	Jiong Hao Jonathan Tan (Singaore)	Deep Learning Model for Automated Detection and Classification of Degenerative Cord Signal Abnormality, Spinal Canal and Neural Foraminal Stenosis on Cervical Spine MRI
13:59 – 14:05	204	Wing Ki Cheung (Hong Kong SAR)	How the curve morphology differs between curve types in patients with Adolescent Idiopathic Scoliosis during brace treatment?
14:05 – 14:11	274	Moxin Zhao (Hong Kong SAR)	Non-Radiative Postural Alignment Assessment: Generating Radiograph Comparable Images with 3D Imaging and Deep Learning

Free paper (4) – Cervical

13:20 – 14:20 (Room S224-225)

Moderators: Paul Koljonen (Hong Kong SAR) and Wen-Tien Wu (Taiwan)

Time	Abstract Number	Abstract Presenter (Country / Region)	Abstract Topic
13:20 – 13:24	176	Xiao Yang (China)	Two-level anterior cervical corpectomy and fusion versus posterior open-door laminoplasty for the treatment of cervical ossification of posterior longitudinal ligament: a comparison of the clinical impact on the occipito-atlantoaxial complex
13:24 – 13:28	178	Zhiqiang Yang (China)	A novel MRI-based Cervical Endplate Bone Quality score independently predicts cage subsidence after Anterior Cervical Diskectomy and Fusion
13:28 – 13:32	182	Junhu Li (China)	MRI-based cervical vertebral bone quality score and the quality of paravertebral muscle are novel predictors of the loss of cervical lordosis after open-door laminoplasty.
13:32 – 13:36	185	Junhu Li (China)	Effect of different intraoperative neck positions on postoperative dysphagia after anterior cervical discectomy and fusion: a double-blind, prospective, randomized controlled trial.
13:36 – 13:40	205	Karlen Ka-pui Law (Hong Kong SAR)	A new arena in quantifying functional deficits with the severity of spinal cord compression in Degenerative Cervical Myelopathy
13:40 – 13:44	130	Jose Kreisher Rae Foscablo (Philippines)	Clinical and Radiographic Predictors of Deterioration in Mild Cervical Spondylotic Myelopathy: A Systematic Review
13:44 – 13:48	201	Howard, Hao-wen Chen (Taiwan)	The Meaning and Clinical Application of Facet Fluid Effusion Found on MRI in Patients with Cervical Degenerative Spondylolisthesis
13:48 – 13:52	218	Karthik Ramachandran (India)	Postoperative Analgesic Efficacy of Inter- semispinal Plane Block in Posterior Cervical Laminectomy- A Prospective Randomised Controlled Study
13:52 – 13:56	76	Yasutsugu Yukawa (Japan)	Does anterior surgery provide good surgical outcome for K-line (-) and/or huge (occupying ratio > 50%) ossification of posterior ligament in cervical spine?

Free paper (5) - Cervical and miscellaneous

13:20 - 14:20 (Room S226-227)

Moderators: Chris Tang (Hong Kong SAR) and Kazuya Kitamura (Japan)

Time	Abstract	Abstract Presenter	Abstract Topic
	Number	(Country / Region)	
13:20 -	126	Yasutsugu Yukawa	Impact of increased signal intensity of the
13:24		(Japan)	spinal cord at the vertebral body level in
			patients with cervical myelopathy
13:24 –	177	Shuxin Zheng (China)	The novel cervical vertebral bone quality score
13:28			can independently predict cage subsidence
			after anterior cervical corpectomy and fusion
13:28 –	83	Yudha Mathan Sakti	Evaluation of mRNA Tumor Necrosis Factor
13:32		(Indonesia)	Alpha (TNF- α) Level from Nucleus Pulposus,
			Annulus Fibrosus and Facet Joint Tissue on
			Degenerative Lumbal Canal Stenosis Patient
13:32 -	98	Chongyan Wang	Tandem Spinal Stenosis: A 845 Multiracial
13:36		(Singapore)	Asian Patients' Prevalence and Risk Factor
			Analysis
13:36 -	241	Zhang Hao (China)	Dynamic CT imaging of the cervical spine in
13:40			patients with atlantoaxial instability
13:40 -	242	Zhang Hao (China)	ACDF with cervical uncinectomy for cervical
13:44			radiculopathy with foraminal stenosis
13:44 -	150	Shun Herng Tan	All-Pedicle Construct Selective Thoracic Fusion
13:48		(Malaysia)	(STF) in Adolescent Idiopathic Scoliosis (AIS):
			Clinical and Radiological Outcomes at 5-Year
			Follow-Up for Lenke 1B, 1C, 2B, and 2C Curves
13:48 -	213	Yukan Wu (China)	Evaluation of Accuracy of Thoracolumbar
13:52			Pedicle Screw Placement Assisted by Artificial
			Intelligence Preoperative Planning
13:52 -	174	Xiao Yang (China)	Long-term quality of life in patients with
13:56			severe thoracic ossification of the ligamentum
			flavum treated with posterior laminectomy: a
			clinic follow-up study with a mean of 70.8
			months.
13:56 –	148	Mrs. Siti Mariam	Anxiety and Depression, Quality of Life
14:00		Mohamad	(QOL) and Coping Strategies among
		(Malaysia)	Adolescent Idiopathic Scoliosis (AIS)
			Patients on Bracing

Best Paper Presentation – Clinical

14:20 – 15:20 (Room S221)

Moderators: Dong-Gune Chang (South Korea) and Chris Chan (Malaysia)

Time	Abstract	Abstract Presenter	Abstract Topic
	Number	(Country / Region)	
14:20 -	2	Yuan-Shun Lo	Predicting Neurologic Complications in
14:26		(Taiwan)	Thoracic Three-Column Osteotomy: A Clinical
			Application of a Novel MRI-Based
			Classification Approach
14:26 –	25	Prudence WH	The Proximal Femur Maturity Index is a novel
14:32		Cheung	tool to Predict Curve Progression Risk in
		(Hong Kong SAR)	Patients with Adolescent Idiopathic Scoliosis
			Undergoing Bracing
14:32 –	27	Yong Yao Tan	Single position lateral lumbar interbody fusion
14:38		(Singapore)	with navigated percutaneous pedicle screw
			fixation: Technique modification with resultant
			resource usage optimisation
14:38 –	63	Kai Cao (China)	The Risk Factors for Implant Failure after PVCR
14:44			for Severe Thoracolumbar Pott's Deformity
14:44 –	80	Ziquan Li (China)	Risk Factors of Surgical Complications for
14:50			Early-onset Scoliosis (EOS)
14:50 –	106	Hideki Shigematsu	Current Trends in Intraoperative
14:56		(Japan)	Neurophysiological Monitoring among Asian
			Countries. An Asia Pacific Spine Society (APSS)
			Survey.
14:56 –	179	Junhu Li (China)	The relationship between postoperative
15:02			proximal junctional kyphosis and MRI-based
			pedicle bone quality scores in thoracic
			adolescent idiopathic scoliosis
15:02 –	208	Victoria Yuk Ting Hui	Lateral Plane Fulcrum Bending Radiographs
15:08		(Hong Kong SAR)	Predicts Postoperative Thoracic
			Normokyphosis in Adolescent Idiopathic
			Scoliosis

Free paper (6) - New technology 1

14:20 – 15:20 (Room S224-225)

Moderators: Grace Zhang (Hong Kong SAR) and Wongthawat Liawrungrueang (Thailand)

Time	Abstract	Abstract Presenter	Abstract Topic
	Number	(Country / Region)	
14:20 -	5	Wongthawat	Artificial Neural Networks Model Detection for
14:24		Liawrungrueang (Thailand)	Osteoporotic Vertebral Compression Fracture
14:24 -	229	Si Jian Hui	Does 3D printing affect material properties of
14:28		(Singapore)	PEEK composites? - A detailed compositional
			& optimized mechanical analysis of pre and
			post manufacturing
14:28 -	100	Nagaraju	To assess role of 3D printed model in pre
14:32		Honnegowda (India)	operation planning and outcome of
			kyphectomy
14:32 -	109	Chenxi Yu (Hong	Learning Powered Axial Vertebral Rotation
14:36		Kong SAR)	Analysis for Adolescent Idiopathic Scoliosis:
		,	Technology Development and Clinical
			Validation
14:36 -	110	Xihe Kuang (Hong	Deep Learning Driven Rapid Diagnosis System
14:40		Kong SAR)	for Pedicle Dysplasia with Preliminary
			Validation
14:40 -	133	Jiong Hao Jonathan	Can a deep learning artificial intelligence
14:44		Tan (Singapore)	model lead to earlier diagnosis of high grade
		, , ,	metastatic epidural spinal cord compression
			and reduction in treatment delay?
14:44 -	225	Nan Meng (Hong	Radiation-free 3D Spine Curve Synthesis Based
14:48		Kong SAR)	on Biplanar Optical Unclothed Back Images for
			Spine Alignment Analysis
14:48 -	52	Kihyun Kwon (South	Are there correlations between surgical timing
14:52		Korea)	or weather conditions and early post-spinal
			fusion surgery Infections? Big data analysis

Free paper (7) - New technology 2

14:20 – 15:20 (Room S226-227)

Moderators: Michael Tse (Hong Kong SAR) and Takaki Yoshimizu (Japan)

Time	Abstract Number	Abstract Presenter (Country / Region)	Abstract Topic
14:20 -	96	Pramod Sudarshan	Intrathecal nusinersen injection for Spinal
14:24	30	(India)	muscular atrophy post spinal deformity
14.24		(iliula)	correction surgery – A technical note
14:24 –	40	Ryo Mizukoshi	Gender Differences in Spinal Mobility During
14:24 -	40	(Japan)	Postural Changes: A Detailed Analysis Using
14.20		(Japan)	Upright CT
14:28 -	252	Chun Man Ma (Hong	Resection of hemivertebra in congenital
14:32		Kong SAR)	scoliosis using ultrasonic bone cutter under
			computerized navigation
14:32 -	50	Melissa Mae Sanchez	Analyzing Pedicle Morphology of Thoracic and
14:36		(Philippines)	Lumbar Vertebra using Computed
			Tomographic Measurement among Filipino
			population in a tertiary hospital
14:36 -	115	Muhammad Jawad	Outcome of Expansion Duraplasty in
14:40		Saleem (Pakistan)	Transverse Myelitis
14:40 -	169	Xi Yang (China)	A comparison of anterior reconstruction of
14:44			spinal defect using nano-
			hydroxyapatite/polyamide 66 cage and
			autologous iliac bone for thoracolumbar
			tuberculosis: a stepwise propensity score
			matching analysis
14:44 –	262	Alvin Pun (Australia)	Prone Transpsoas (PTP) Lateral Lumbar
14:48			Interbody Fusion (LLIF): Segmental Lordosis
			and Patient Reported Outcome Measures
			(PROMS) In Case Series Comparable To
			Current Literature
14:48 -	230	Si Jian Hui	Novel material processing printing method for
14:52		(Singapore)	novel PEEK-HA-Mg2SiO4 composite material
			for spine implants
14:52 –	258	Si Jian Hui	Experience using CFR-PEEK implants in
14:56		(Singapore)	metastatic and primary spine tumour surgery;
			a single centre experience
14:56 –	273	Hao Wu (Hong Kong	Prospective Validation of Multimodal Digital
15:00		SAR)	Exercise Therapy for Low Back Pain
			Management

16 June 2024 (Sunday)

Free paper (8) – Trauma

09:00 – 10:00 (Room S221)

Moderators: Raymond Wong (Hong Kong SAR) and Abhay Nene (India)

Time	Abstract Number	Abstract Presenter (Country / Region)	Abstract Topic
09:00 – 09:04	23	Hiroyuki Kitagawa (Japan)	Is traumatic disc injury a local kyphosis risk?
09:04 – 09:08	1	Weera Chaiyamongkol (Thailand)	Surgical management strategies for unstable sacral fractures
09:08 – 09:12	10	Xin Qiu (China)	Single-cell nuclear transcriptome sequencing resolves cellular heterogeneity in a single segmental compression model of chronic spinal cord injury in rabbits
09:12 – 09:16	38	Masatoshi Teraguchi (Japan)	Association between thoracic diffuse idiopathic skeletal hyperostosis and Spinal cord injury without radiographic evidence of trauma.
09:16 – 09:20	39	Masatoshi Teraguchi (Japan)	Non cervical diffuse idiopathic skeletal hyperostosis is a risk factor for severity of cervical spinal cord injury
09:20 – 09:24	44	Romel Estillore (Philippines)	Influence of Barium Sulfate Contrast Agent in Bone Cement on its Physical and Mechanical Properties in the Vertebra of an Animal Model for the Treatment of Vertebral Compression Fractures
09:24 – 09:28	79	Torphong Bunmaprasert (Thailand)	Factors Associated with Non-Contiguous Spine Fracture in Patients with Traumatic Cervical Spine Injury: a 12-Year Retrospective Study
09:28 – 09:32	165	Mian Huang (Hong Kong SAR)	A GPT-Based Question-and-Answer Chatbot on Osteoporosis and Phantom-Less QCT Bone Mineral Density Measurement System for Osteoporosis
09:32 – 09:36	187	Ganesh Kumar (India)	Single vs Double Index screws in Thoracolumbar Burst Fractures: A Comparative Retrospective study
09:36 – 09:40	261	Wei-chao Li (China)	Clinical efficacy and finite element analysis of a novel hollow pedicle screw combined with kyphoplasty for the treatment of Kümmell disease

Free paper (9) – Adult spinal deformity 1

09:00 - 10:00 (Room S224-225)

Moderators: Kenny Yat Hong Kwan (Hong Kong SAR) and Brian Hsu (Australia)

Time	Abstract Number	Abstract Presenter (Country / Region)	Abstract Topic
09:00 -	203	Kuang-Ting Yeh	Whole spinal alignment in asymptomatic
09:04		(Taiwan)	older women with low bone mass: a focus on
			global tilt angle
09:04 -	271	Ganesh Kumar (India)	Assessment of osteoporosis using MRI: Is
09:08			DEXA ready for retirement?
09:08 -	33	Keiji Nagata (Japan)	Proximal Junctional Kyphosis in Adult Spinal
09:12			Deformity Correction Surgery: A New
			Evaluation Method for Upper UIV Using
			Comfortable Seated Simple X-Ray Evaluation
09:12 -	69	Guodong Wang	Erector spinae atrophy correlates with global
09:16		(China)	sagittal imbalance and postoperative proximal
			junctional kyphosis incidence in lumbar
			degenerative kyphosis
09:16 -	14	Young-il Ko (South	Analysis of risk factors affecting lumbosacral
09:20		Korea)	pseudoarthrosis in multi-segmental fusion: a
			CT-based study
09:20 -	206	Masao Koda (Japan)	Cast Test: Surgical Outcome Prediction of
09:24			Thoraco-Lumbar Spine Correction Surgery for
			Sagittal Vertical Axis (+) Type Dropped Head
			Syndrome: A Report of Initial 5 Cases
09:24 -	167	Graham Shea (Hong	The Long-term Natural History of
09:28		Kong SAR)	Degenerative Lumbar Spinal Stenosis
09:28 -	255	Jerry Chi Yan Ip	Predicting the Radiographic Correction of
09:32		(Hong Kong SAR)	Spondylolisthesis following Oblique Lateral
			Interbody Fusion (OLIF)

Free paper (10) - AIS 2

09:00 - 10:00 (Room S226-227)

Moderators: Jason Pui Yin Cheung (Hong Kong SAR) and Chee Kidd Chiu (Malaysia)

Time	Abstract Number	Abstract Presenter (Country / Region)	Abstract Topic
09:00 – 09:04	153	Yu Jie Lee (Malaysia)	How useful is WhatsApp in the peri-operative management of Adolescent Idiopathic Scoliosis (AIS) patients
09:04 – 09:08	81	Yudha Mathan Sakti (Indonesia)	Multifactorial Genetic Analysis as A Prospective Predictor of Adolescent Idiopathic Scoliosis Development: Ladybird Homeobox 1 (LBX1) And Estrogen Receptor (ESR) mRNA Expression
09:08 – 09:12	139	Sin Ying Lee (Malaysia)	Statistical Comparison of Two Radiographic Classifications for Adult Idiopathic Scoliosis (AdIS) Patients Based on Supine versus Supine Side-Bending Radiographs
09:12 – 09:16	146	Chun Hong Ngan (Malaysia)	Outcomes of Pregnancy and Childbirth Following Posterior Spinal Fusion in Adolescent Idiopathic Scoliosis: A Retrospective Cohort Study
09:16 – 09:20	156	Yee Wern Evonne Tan (Malaysia)	Predictive value of supine radiographs for postoperative curve correction in Adult Idiopathic Scoliosis (AdIS) patients
09:20 – 09:24	158	Sze Khiong Fam (Malaysia)	Long-Term Functional Outcome, Health-Related Quality of Life (HRQOL), and Sports Participation among Adolescent Idiopathic Scoliosis (AIS) Patients more than 10 years after Posterior Spinal Fusion (PSF) Surgery: A Study of 128 AIS Patients.
09:24 – 09:28	186	Tsunehiko Konomi (Japan)	Clinical outcomes of Coplanar-Hybrid techniques for restoring thoracic kyphosis in patients with idiopathic scoliosis: Synergy between convex uniplanar screws and hybrid constructs on the concave side
09:28 – 09:32	226	Mohd Shahnaz Hasan (Malaysia)	A Retrospective Comparative Study of Single Bolus Versus Bolus Followed by Continuous Infusion with Similar Total Tranexamic Acid Dosage on Surgical Blood Loss in Scoliosis Surgery
09:32 – 09:36	243	Prudence Cheung (Hong Kong SAR)	Back Pain Questionnaire in Adolescent Idiopathic Scoliosis: An Insight into Pain Characteristics and its Relationship with Health-Related Quality of Life
09:36 – 09:40	249	Chun Man Ma (Hong Kong SAR)	The use of novel H-bar in intraoperative assessment of alignment for patients with adolescent idiopathic scoliosis receiving posterior fusion surgery

Free paper (11) - AIS 3

14:30 – 15:40 (Room S221)

Moderators: Chun Man Ma (Hong Kong SAR) and Yudha Matha Sakti (Indonesia)

Time	Abstract Number	Abstract Presenter (Country / Region)	Abstract Topic
14:30 – 14:34	70	Guodong Wang (China)	Clinical and Radiological Outcome of Selective Fusion for Rotatory Olisthesis in Degenerative Lumbar Scoliosis: A retrospective cohort study
14:34 – 14:38	129	Josephine Rebecca Chandren (Malaysia)	Review of the Perioperative Outcomes of 123 Adult Idiopathic Scoliosis (AdIS) Patients underwent Posterior Spinal Fusion (PSF).
14:38 – 14:42	140	Sin Ying Lee (Malaysia)	A Dedicated Spine Team Approach Maintained a Consistent Operating Theatre (OT) Efficiency and Perioperative Outcomes in Posterior Spinal Fusion (PSF) Surgery for Adolescent Idiopathic Scoliosis (AIS) Patients
14:42 – 14:46	143	Saturveithan Chandirasegaran (Malaysia)	Perioperative Outcome of Severe Adolescent Idiopathic Scoliosis (AIS) Patients with Cobb Angle ≥ 100°: The Feasibility of Single-Stage Posterior Spinal Fusion with Radical Facetectomies.
14:46 – 14:50	144	Saturveithan Chandirasegaran (Malaysia)	A Novel Approach: Utilization of Medial Pedicle Wall Referencing Extra-Pedicular (EP) Screw Insertion Technique in Narrow Dysplastic Pedicles in Adolescent Idiopathic Scoliosis (AIS) Patients.
14:50 – 14:54	145	Saturveithan Chandirasegaran (Malaysia)	The Feasibility of Rapid Recovery Protocol (RRP) in Severe Adolescent Idiopathic Scoliosis (AIS) Patients (Cobb Angle ≥ 90°) following Posterior Spinal Fusion (PSF).
14:54 – 14:58	151	Kar Jun Lee (Malaysia)	Zonal Differences in distribution of Dysplastic Pedicles in Severe (Cobb Angle ≥ 900) Idiopathic Scoliosis (IS): A Computed Tomography Study of 2652 Pedicles using the Zonal Classification
14:58 – 15:02	157	Sze Khiong Fam (Malaysia)	Description of A Novel Proximal Hyperkyphotic Rod Contouring Technique to Redistribute Thoracic Kyphosis among Adolescent Idiopathic Scoliosis (AIS) Patients: A study of 58 Lenke Type 1 and 2 AIS Patients
15:02 – 15:06	160	Wee Jieh Wang (Malaysia)	Comparison between Medial and Lateral Pedicle Wall Thickness in Asian Adolescent Idiopathic Scoliosis (AIS) with Major Thoracic Curves
15:06 – 15:10	163	Woon Theng Heng (Malaysia)	Medial Wall Glide Technique: A Novel Technique for Pedicle Screw Insertion in Non- Dysplastic Pedicles Among Adolescent Idiopathic Scoliosis (AIS) Patients

Free paper (12) – Adult spinal deformity 2

14:30 – 15:40 (Room S224-225)

Moderators: Kam-Kwong Wong (Hong Kong SAR) and Hideki Shigematsu (Japan)

Time	Abstract	Abstract Presenter	Abstract Topic
	Number	(Country / Region)	
14:30 -	253	Si Jian Hui (Singpore)	5-year radiological outcomes between
14:34			decompression alone and decompression
			with an interlaminar device for lumbar spinal stenosis
14:34 -	53	Dong-ho Kang (South	The fate of pre-existing L5-S1 degeneration
14:38		Korea)	following oblique lumbar interbody fusion of L4-L5 and above
14:38 -	54	Dong-ho Kang (South	Predicting adequate segmental lordosis
14:42		Korea)	correction in lumbar spinal stenosis patients
			undergoing oblique lumbar interbody fusion:
			A focus on the discontinuous segment
14:42 -	171	Qiujiang Li (China)	S1 vertebral bone quality score
14:46			independently predicts pedicle screw
			loosening following surgery in patients with
			adult degenerative scoliosis
14:46 –	172	Qiujiang Li (China)	MRI-based endplate bone quality score as a
14:50			predictor of cage subsidence following
			oblique lumbar interbody fusion
14:50 –	180	Hideki Shigematsu	Survey on the Necessity of Intraoperative
14:54		(Japan)	Neurophysiological Monitoring for Spinal
			Cord Surgeries in Asian Countries
14:54 –	238	Sri Krishna Chaitanya	Expandable Cages For Transforaminal Lumbar
14:58		Kondety (India)	Interbody Fusion- 1 Year Radiological
			Outcomes Of Lumbar Lordosis, Vertebral
			Foramen Height, Anterior and Posterior Disc
			Height

Free paper (13) – Complications

14:30 – 15:40 (Room S226-227)

Moderators: Ka Kin Li (Hong Kong SAR) and Yoshiharu Kawaguchi (Japan)

Time	Abstract	Abstract Presenter	Abstract Topic
	Number	(Country / Region)	
14:30 -	16	Takahiro Mui (Japan)	Which patients do we need to consider
14:34			augmentation of muscle active potentials
			regarding MEP monitoring before spine
			surgery?
14:34 –	250	Qiuya Li (Hong Kong	Incidence of Rare Complications during and
14:38		SAR)	after Lumbar Spine Surgery in Hong Kong
14:38 –	51	Pochollo Miguel	Dural Sealants In Spine Surgery: A
14:42		Rosales (Philippines)	Scientometric Analysis
14:42 –	36	Kihyun Kwon (South	Analysis of risk factors for persistent
14:46		Korea)	postoperative neuropathic pain after surgery
			in patients with spinal stenosis
14:46 –	43	Paul Albert Manuel	Outpatient intermittent percutaneous CSF
14:50		(Philippines)	drainage as treatment of CSF leak in spine
			surgery
14:50 –	272	Yanzhe Wei (China)	Analysis of Surgical Strategies for Two Cases
14:54			of Ankylosing Spondylitis Kyphosis
			Complicated by Anterior Dural Ectasia/Spinal
			Cord Herniation
14:54 –	47	Rohit Thaker (India)	Dural tears incidence and it's outcome in
14:58			Minimally Invasive Spine Surgery (MISS) vs.
			Open Spine surgery for degenerative lumbar
			spine pathologies.
14:58 –	78	Hideyuki Arima	Impact of osteoporosis on clinical outcomes
15:02		(Japan)	after corrective fusion for adult spinal
			deformity and reoperation rates for
			mechanical complications
15:02 –	152	Yu Jie Lee (Malaysia)	Factors associated with Moderate and Severe
15:06			Pulmonary Impairment (MSPI) in
			Preoperative Adolescent Idiopathic Scoliosis
_			(AIS) Patients
15:06 –	219	Karthik	Risk Predictive Score and Cord Morphology
15:10		Ramachandran	Classification for Intraoperative
		(India)	Neuromonitoring Alerts in Kyphosis Surgery