

26th Annual Scientific Conference of the Canadian Spine Society

e-POSTERS					
POSTER NUMBER	PRESENTER FIRST NAME	PRESENTER LAST NAME	TITLE	ABSTRACT ID	AWARDS
CERVICAL DEGENERATIVE					
P	Maryse	Fortin	From Surgery to Recovery: A Systematic Review of Postoperative Rehabilitation in Degenerative Cervical Myelopathy	12	
P	Vivian	Le	Inpatient outcomes of Degenerative Cervical Myelopathy patients undergoing surgery in Teaching versus Non-Teaching Hospitals.	54	Residents/MedS
P	Nitai	Klein	Determinants of Surgical Outcomes in Degenerative Cervical Myelopathy: A Comprehensive Thematic Review of 16 Prospective CSORN Studies	64	Fellows
P	Vishwathsen	Karthikeyan	Mental Health Recovery After Surgery for Degenerative Cervical Myelopathy: A Group-Based Trajectory Modelling Analysis	4	Residents/MedS
P	Neil	Manson	Minimal clinically important differences in pain and disability after cervical spine surgery.	170	
P	Bernardo	Mariano	Cervical Spine Endoscopy and Biportal Approach in Cervical Myelopathy	154	
P	Vivian	Le	The Weekend Effect in Patients Undergoing Emergent Spine Surgery for Cervical Myelopathy	55	Residents/MedS
P	Robert	Ravinsky	The Cord-to-Canal Ratio as a Radiographic Tool in Congenital Cervical Spinal Stenosis	23	
P	Vishwathsen	Karthikeyan	Upper extremity sensation after surgery for degenerative cervical myelopathy, does it change? An observational study from the Canadian Spine Outcomes and Research Network (CSORN)	46	Residents/MedS
P	Stephen	Lewis	Can Posterior Only Surgery Correct Cervical Lordosis in Patients Presenting with K-Line Negative Degenerative Myelopathy	180	

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DEFORMITY					
P	Vivien	Chan	New Pedicle Screw Stimulation Technique Can Identify Medial Pedicle Breeches	13	
P	Ganesh	Swamy	Do males and females have similar patient-reported outcomes in ASD surgery?	213	
P	Mohamad	Bakhaidar	Biomechanical Analysis of Long-Segment Cervical Spine Stabilization: Finite Element Analysis of Pedicle, Pars, Translaminar and Hybrid Screw Fixation Models	124	Fellows
P	Chloe	Cadieux	Routine Practices in Anesthesiology for Spine Deformity Surgery: A Preliminary Multi-Centre Comparison	86	Fellows
P	Aazad	Abbas	3D-Printed Guides, Navigation, and Robotic Assistance in Spinal Instrumentation: A Network Meta-Analysis of Pedicle Screw Accuracy and Clinical Outcomes	141	Residents/MedS
P	Ganesh	Swamy	Development & Assessment of a Patient Decision Aid for Adult Spinal Deformity Fusion Surgery: Using Visual Art to Draw a Better Understanding	164	

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POSTER NUMBER	PRESENTER FIRST NAME	PRESENTER LAST NAME	TITLE	ABSTRACT ID	AWARDS
LUMBAR DEGENERATIVE					
P	Lindsay	Orosz	One-Year Fusion Outcomes Using an Integrated Robotic-Navigation System for Thoracolumbar Instrumentation: Analysis of 234 levels	10	
P	Alhareth	Maaya	Initial Experience with Unilateral Dual Portal Endoscopic TLIF Utilizing Dual Direction Expandable Cages: A Preliminary Case Series"	34	
P	Alhareth	Maaya	Optimizing Revision Lumbar Surgery: The Unilateral Biportal Endoscopic Approach	37	
P	Heidi	Chan	The effects of class III obesity among patients undergoing surgery for degenerative lumbar conditions: An observational study from the Canadian Spine Outcomes and Research Network (CSORN)	75	Fellows
P	Philippe	Phan	Clinical Validation of Patient-Specific Finite Element OLIF Simulations in Grade I Spondylolisthesis	81	
P	Aazad	Abbas	Pelvic Incidence–Lumbar Lordosis Mismatch Correction in Lumbar Fusion: A Systematic Review and Meta-Analysis	169	Residents/MedS
P	Aazad	Abbas	Predicting Postoperative Length of Stay After Single-Level Discectomy Utilizing Ordinal Machine Learning Models	195	Residents/MedS
P	Janet	Debly	Analysis of I-PSS Score as a Risk Factor for Post-Operative Urinary Retention in a Thoracolumbar Spine Surgery Patient Population	197	
P	Drew	Bednar	Internal lumbar disc derangement with instability catch from monosegmental discopathy. Cohort study of a forgotten mechanical and kinetic surgical back pain syndrome	57	
P	Drew	Bednar	Normal anatomy of the lumbar sublaminar ridge in the lateral recess with potential implications to surgical technique indegenerative spinal stenosis. A cadaveric study.	59	
P	Sean	Peel	Osteoinductive response of a growth factor bioavailability enhanced allograft (GFBA) magnesium cement (CEM) composite.	112	
P	Mohamad	Bakhaidar	Lateral Lumbar Interbody Fusion versus Single Position Prone Transpoas Approach: A Comprehensive Bibliometric Analysis	121	Fellows
P	Lindsay	Orosz	Integrated Robotic Spine Surgery with Navigation: A One-Year Prospective Multicenter Analysis of Complications and Revision Rates in 657 Thoracolumbar Fusions	8	
P	Emilie	Davignon	Influence of Thoracolumbar Fascia Anisotropy on Lumbar Spine Stability	207	
P	Bernardo	Mariano	Comparison of Biportal and Uniportal Endoscopic Spine Surgery in lumbar degenerative disease	152	
P	Bernardo	Mariano	The use of Unilateral Biportal Endoscopy as an alternative to lumbar in spine fusion surgery with large CAGE	153	
P	Mark	Driscoll	How Altered Thoracolumbar Fascia Morphology Contributes to Spinal Stiffness: A Finite Element Investigation	204	
P	Robert	Ravinsky	Relationship of Posterior Superior Iliac Spine (PSIS) Morphology and Ideal S1 Pedicle Screw Trajectory: A Cross-Sectional Study of Closed vs Open PSIS Morphology	24	
P	Isaac	Moss	Enhanced Clinical Success and Accelerated Fusion with P-15L Versus Autograft in Higher-Risk Patients Undergoing TLIF: A Subgroup Analysis of a Multicenter Randomized Controlled Trial	82	
P	Celina	Nahanni	Predictors of Functional Recovery Following Perioperative Adverse Events in Lumbar Spine Surgery	202	Fellows
P	Olusola	Adedipe	A comparison of appropriateness of lumbar spine MRI before and after COVID-19: A retrospective propensity matched cohort study	178	Fellows
P	Kathrym	McIntosh	Quantifying the Learning Curve for Robotic-Assisted Spine Surgery Using the MAZOR™ X Stealth System: A Prospective Canadian Cohort Study	184	Residents/MedS
P	Robert	Ravinsky	Morphometric Analysis of Lumbar Nerve Root Take-Off in the Lumbar Spine	22	
P	Newton	Pimenta	Impact of preoperative cannabis use on clinical outcomes of spinal fusion - systematic review and meta-analysis	49	

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NON-SURGICAL MANAGEMENT					
P	Lindsay	Orosz	Evaluating Patient Readiness for Spine Surgery: A Cross-Sectional Study	9	
P	Ariane	LeBlanc Grant	Early Identification of Neurogenic Bladder and Bowel Dysfunction After Incomplete Spinal Cord and Cauda Equina Injury Using the ElectroSacroGram (ESG) for Precision Rehabilitation Triage	139	Residents/MedS
ONCOLOGY					
P	Joshua	Chamberlain	Arterial contributor to spinal cord perfusion at tumour level - Does it still effect management?	108	Fellows
P	Yousif	Murad	Do outcomes differ between semi-elective and emergent treatment of spinal metastases: a retrospective cohort study	48	Fellows
P	Zhi	Wang	Breast Cancer First Diagnosed at the Time of Spinal Metastasis: Clinical and Epidemiologic Profile from a Canadian Spine Surgery Cohort	111	
P	Olivia	Zhou	Outcomes of Reoperation for Spinal Metastases at Different Anatomical Levels: A 10-Year Cohort Analysis	144	
P	Zainah	Moukahlhel	Incidence and Predictors of Local Recurrence Following Surgical Management of Spinal Metastases	143	
P	Edisond	Florial	The impact of tumor board on clinical making-decision of patients with metastatic spinal tumors: Single-center retrospective study	137	
P	Omer	Ahmed	Impact of Antibiotic Prophylaxis Duration on Surgical Site Infection Rates in Patients Undergoing Surgery for Spinal Metastases	128	
P	Zhi	Wang	When the Spine Lesion Reveals the Cancer: Survival and Neurological Recovery in Patients with Breast Cancer First Presenting as Spinal Metastasis	109	
SOCIOECONOMIC					
P	Christopher	Loranzo	The Economics of Surgical Decision-Making in Geriatric Type II Odontoid Fractures: Reframing the Role of Frailty	7	Residents/MedS
P	Daisy	Lu	From Paediatric to Adult Spine Care: A Guide for Clinicians When Their Patient Turns 18	132	Residents/MedS
P	Christopher	Lozano	Patient, Hospital and Geographic Factors Associated With Intraoperative Neuromonitoring for Cervical Spine Surgery: A National Analysis	53	Residents/MedS
P	Aazad	Abbas	Financial Impact of Acellular Bone Graft Substitutes on Spinal Fusion Surgeries: A Monte Carlo Analysis	177	Residents/MedS

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OTHER					
P	Drew	Mulhall	Endoscopic Spine Surgery: A Scoping Review of the Literature	2	Fellows
P	Daniel	Lobos	Simulation model for training in lumbar laminectomy: design and initial validation	21	Fellows
P	Alhareth	Maaya	Complications and Management Strategies in Unilateral Biportal Endoscopic Spine Surgery: A Case Series with Insights into the Early Learning Curve	35	
P	Jaskaran	Singh	Does Image Guidance Reduce Unexpected Returns to the Operating Room After Spinal Screw Fixation? A Systematic Review and Meta-analysis	41	Residents/MedS
P	Aazad	Abbas	Use of AI for Implant Identification and Classification in Spine Surgery: A Scoping Review	181	Residents/MedS
P	Jaskaran	Singh	Biomechanical Impact of Screw Length and Addition of Posterior Fixation to Fatigue Failure in Worst-Case Conditions for Anterior Cervical Fixation Models	26	Residents/MedS
P	Vitaliy	Voznyy	Risk Factors and Clinical Outcomes Associated With Delayed Extubation in Spine Surgery: A Systematic Review and Meta-Analysis	116	Residents/MedS
P	Mohamad	Bakhaidar	Postoperative Chyle-related Complications in Lumbar Spine Surgery: A Systematic Review of Risk Factors, Management Approaches, and Clinical Outcomes	122	Fellows
P	Michael	Mulcahy	Unexpected intraoperative positive culture in presumed aseptic revision spine surgery: a propensity score-matched cohort study	33	Fellows
P	Mohamad	Bakhaidar	Simulation Training in Spinal Endoscopic Surgery: A Systematic Review of Current Status and Future Directions	125	Fellows
P	Lakota	Stitt	Transabdominal Motor Evoked Potentials as a Robust Adjunct to Transcranial Monitoring in Lumbar Spine Surgery: Superior Performance in Patients with Brain Pathology	107	
P	Kirill	Pustovetov	Predictive respiratory motion compensation for robotic-assisted spinal procedures using a time-variant seasonal autoregressive model	38	
P	Colby	Oitment	Elective Spine Surgery in Octogenarians: Early Postoperative Mortality and Morbidity	19	
P	Mohamad	Bakhaidar	Development and Validation of a Porcine Simulation Model for Biportal Endoscopic Lumbar Decompression Training: A Prospective Study	142	Fellows
P	Alhareth	Maaya	Unilateral Biportal Endoscopic Spine Surgery: Managing Complex and Revision Cases with a Minimally Invasive Approach	36	
P	Essam	Al-Attar	Spine Endoscopic Surgery: Our Experience and Outcomes in the Republic of Yemen – A One-Year Descriptive Study	60	

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TRAUMA / SCI					
P	Shaurya	Gupta	Robot-assisted Hydrogel Injection for Spinal Cord Injury Repair	42	
P	Jean-March	Mac-Thiong	Perioperative outcomes after surgical treatment of spinal cord injury due to low-energy falls. A comparative study between patients with rigid vs. non-rigid spine.	63	
P	Anmol	Anand	CT based assessment of canal clearance following partial corpectomy in thoracolumbar burst fractures– Quantifying the unseen victory	88	Residents/MedS
P	Hassan	Abou Adma	Surface Topography Modifications of Pedicle Screws in Spine Surgery: A Scoping Review	101	
P	Pegah	Derakhshan	Designing for Inclusion: A Qualitative Study on the Needs and Suggestions of People Living with Spinal Cord Injury for Inclusive Outdoor Adaptive Recreation Programs	172	Residents/MedS
P	Aazad	Abbas	Cement Augmentation of Pedicle Screw Fixation for Non-Osteoporotic Bone: A Systematic Review of Clinical Outcomes and Complications	194	Residents/MedS
P	Jennifer	Lischynski	Traumatic Spinal Cord Injury in Manitoba: Adverse Medical and Surgical Outcomes amongst Surgical Spinal Cord Injury Patients in Manitoba	43	Residents/MedS
P	Jennifer	Lischynski	Traumatic Spinal Cord Injury in Manitoba: Analysis of correlation between Mean Arterial Pressure (MAP) and Recovery in Spinal Cord Injury Patients	44	Residents/MedS
P	Maryse	Fortin	Imaging assessment of cervical and lumbar muscle characteristics in collegiate athletes with and without a recent history of concussion	84	
P	Hsuan Ming	Su	Pre-Admission Frailty Predicts In-Hospital Mortality Following Complete Cervical Spinal Cord Injury	129	Residents/MedS
P	Omar	Hassan	Torseamide Enhances Functional Recovery After Cervical Spinal Cord Injury by Modulating NKCC1-Mediated Hyperexcitability	156	
P	Mohamad	Bakhaidar	Thoracic Duct Injury in Spine Surgery: A Systematic Review of Presentation, Management, and Clinical Outcomes	134	Fellows
P	Heather	Hong	AIS Change as a Predictor of Functional Improvement During Spinal Cord Injury Rehabilitation: What Could Be Better?	189	
P	Priyanka	Vij	Harnessing Neural Plasticity: The role of Neuromodulation techniques in restoring spine - body connection post spinal cord injury.	192	Fellows
P	Aidan	Beresford	Healthcare Utilization and the Journey of patients with TSCI after Hospital Discharge: a retrospective evaluation of 20 years of linked healthcare Data	118	
P	Newton	Pimenta	Meta-analysis comparing 3D-printed guidance with conventional pedicle screw placement in minimally invasive instrumentation for thoracolumbar fractures	50	
P	Fernando	Padilla-Lichtenberger	Early Improvement in Resilience Reduces Anxiety and Depression After Traumatic Spinal Cord Injury: A Prospective Longitudinal Study	40	Fellows
P	Mouad	Elganga	The Association of MRI-Derived Tissue Bridge Morphometrics with Baseline Impairment and Recovery in Traumatic Spinal Cord Injury: A Preplanned Sub-Analysis of the RISCIS Randomized Controlled Trial	115	Residents/MedS
P	Timothy	Lasswell	Mechanical Analysis of a Strut Implant for Operative Management of Burst Fractures	160	Residents/MedS
P	Fernando	Padilla-Lichtenberger	Determining the impact of concomitant traumatic brain injury on acute care outcomes following traumatic spinal cord injury	39	Fellows
P	Naama	Rotem-Kohavi	Epidemiology of Work-related Traumatic SCI in British Columbia	83	
P	Newton	Pimenta	Robot-assisted versus conventional vertebral augmentation procedures. Bayesian metaanalysis and trial sequential analysis of randomized controlled studies	157	
P	Lejeune	Gauthier	Evaluating the Reliability and Effectiveness of the Braden Score for Pressure Injury Prevention in Spinal Cord Injury Patients during the acute phase.	91	Fellows

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PAEDIATRIC					
P	Vivien	Chan	Anatomy of Spondylolysis Fractures in Adolescent Patients	14	
P	Sophia	Mourcos	"Why'd I Come?": How Often Do Follow-Up Visits Lead to Management Changes in Adolescent Idiopathic Scoliosis?	145	Resident/Med
P	Vivien	Chan	Patient Perspective on Adjunctive Treatment for Early Onset Scoliosis	17	
P	Daisy	Lu	Learning from Lived Experience: A Prospective Study of Patient and Family Insights to Bridge the Gaps in Scoliosis Transition Care	136	Resident/Med
P	Vivien	Chan	Longer Operative Times are Associated with Increased Morbidity in Pediatric Neuromuscular Scoliosis Surgery	20	
P	Kathleen	Shearer	The Patient Acceptable Symptom State of the ISYQOL, BIDQS, TAASQ and SRS-22r Quality-of-Life and Appearance Questionnaires for Adolescents with Idiopathic Scoliosis	158	
P	Vivien	Chan	Discharge with Opioids Is Associated with Reduced Length of Stay after Posterior Spinal Fusion for Scoliosis in Pediatric Patients	32	
P	Omar	Elsemin	Reliability and Agreement in the Use of an AI-Assisted 3D Imaging Application for Home-Based Scoliosis Monitoring	190	Resident/Med
P	Lejeune	Gauthier	Cost-effectivity of preoperative tests in adolescent idiopathic scoliosis	90	Fellows
P	William	Xue	Preliminary comparative evaluation of MOBI (My Orthopedic Brace Inventory) in adolescents with idiopathic scoliosis treated with a nighttime brace	179	Resident/Med
P	Simona	Gindin	Risk factors for prolonged length of stay following posterior spinal fusion for idiopathic scoliosis in paediatric patients	97	Resident/Med
P	Rachelle	Imbeault	Three-Dimensional Changes Following Anterior Vertebral Body Tethering: Five-Year Preliminary Results	174	Resident/Med
P	Abdulrahman	Al-Naseem	The Role of Tranexamic Acid for Posterior Spinal Fusion in Non-idiopathic Scoliosis: A Systematic Review and Meta-Analysis	69	Resident/Med
P	Lejeune	Gauthier	Impact of Scoliosis Surgery on Breast and Trunk Aesthetics in Female Patients	89	Fellows
P	Sager	Hanna	Clinical Validation of Real Time Topographical Assessment Using 3D Imaging Software	150	
P	AliAsghar	Mohammadi Nasrabadi	Towards Automated Classification of Adolescent Idiopathic Scoliosis Using a Robust Deep Learning Approach	74	