

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	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
	Vishwathsen	Karthikeyan	Mental Health Recovery After Surgery for Degenerative Cervical Myelopathy: A Group-Based Trajectory Modelling Analysis	4	Residents/MedS
	Robert	Ravinsky	The Cord-to-Canal Ratio as a Radiographic Tool in Congenital Cervical Spinal Stenosis	23	
	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
	Katrina	Bartellas	Overscanning Neck Pain: A retrospective review of cervical magnetic resonance imaging studies	56	Fellows
	Ran	Ankory	Can Posterior Only Surgery Correct Cervical Lordosis in Patients Presenting with K-Line Negative Degenerative Myelopathy	180	Fellows

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DEFORMITY					
P	Vivien	Chan	New Pedicle Screw Stimulation Technique Can Identify Medial Pedicle Breeches	13	
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
	Pawel	Jankowski	Multiple Fixation, Fewer Failures: A Multicenter Adult Spinal Deformity Analysis	52	
	Pawel	Jankowski	Contemporary Analysis of Adverse Cardiopulmonary Events Following Corrective Surgery for Complex Adult Spinal Deformities	78	
	Pawel	Jankowski	Types of Pelvic Fixation and Their Influence on Pelvic Incidence Change After Surgery for Adult Spinal Deformity: A Retrospective Analysis Authors:	79	
	Luuk	van Dijk	Evaluation of a Novel Osteoinductive Synthetic Bone Substitute in Spinal Deformity Surgery: A Retrospective Case Review	99	
	Abdulrahman	AlBassam	Association Between Sagittal Malalignment and Proximal Junctional Compression in Lumbar Fusion Patients	105	Fellows
	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
	Laszlo	Kiss	Percutaneous cement discolplasty: an effective, safe, and feasible option for elderly patients	162	Fellows
	Ganesh	Swamy	Development & Assessment of a Patient Decision Aid for Adult Spinal Deformity Fusion Surgery: Using Visual Art to Draw a Better Understanding	164	
	Laszlo	Kiss	Intraoperative Blood Salvage in Adult Deformity Surgery: A Systematic Review and Meta-Analysis	165	Fellows
	Eryck	Moskven	Pre-operative nasal and skin decolonization does not adversely affect the microbiologic spectrum of spine surgical site infection	166	Residents/MedS
	Ganesh	Swamy	Do males and females have similar patient-reported outcomes in ASD surgery?	213	

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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 Transpsaos 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	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
	Robert	Ravinsky	Morphometric Analysis of Lumbar Nerve Root Take-Off in the Lumbar Spine	22	
	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	
	Newton	Pimenta	Impact of preoperative cannabis use on clinical outcomes of spinal fusion - systematic review and meta-analysis	49	
	Ki	Singh	Patient Reported Outcome in Lumbar Degenerative Spondylolisthesis : Outcome analysis after posterolateral Decompression and Surgery.	51	

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	Ramon	Barbosa	Combined Endoscopic Spine Surgery with uniportal and biportal approaches: a new technique that adds advantages and unifies endoscopic spine surgery with a case report.	95	
	Abdulrahman	Al-Naseem	Lumbar Foraminal Morphology Can Affect Outcomes of Indirect Decompression: A Systematic Review and Novel Classification	146	Residents/MedS
	Matthew	Gornet	Spinal stabilization system for treatment of moderate to severe low back pain secondary to lumbar degenerative disc disease: +Ten years Follow-Up	159	
	Newton	Pimenta	A network meta-analysis of randomized controlled trials on different doses of Tranexamic Acid in Posterior-approach lumbar fusion and instrumentation.	193	
	Yan	Silva	Use of topical tranexamic acid alone in instrumentation and posterior fusion in lumbar spine - systematic review and meta-analysis of randomized controlled trials.	196	
	Vishwajeet	Singh	Postoperative Changes in Patient-reported Outcome Measures reflect Expectation Fulfillment Following Elective Lumbar Spine Surgery.	200	Fellows

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NON-SURGICAL MANAGEMENT					
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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
	Adi	Mithani	The Influence of Trunk Muscle Recruitment and Thoracolumbar fascia Mechanical Stiffness on Spine Kinematics During Forward Bending and Return-to-Standing: An in-vivo investigation	85	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	
	Rajesh	Kumar	TITLE: Impact of direct patients' referral to metastatic spine clinic at Toronto Western Hospital	117	Fellows
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	Christopher	Lozano	Patient, Hospital and Geographic Factors Associated With Intraoperative Neuromonitoring for Cervical Spine Surgery: A National Analysis	53	Residents/MedS
P	Daisy	Lu	From Paediatric to Adult Spine Care: A Guide for Clinicians When Their Patient Turns 18	132	Residents/MedS
P	Aazad	Abbas	Financial Impact of Acellular Bone Graft Substitutes on Spinal Fusion Surgeries: A Monte Carlo Analysis	177	Residents/MedS
	Leilani	White	Socioeconomic Status Correlates with Epidural Spinal Cord Compression Severity in Patients Treated for Spine Metastases	5	Residents/MedS
	Nan	Feng	Socioeconomic disadvantage and short-term outcomes after elective spine surgery: a multicenter work-in-progress cohort	28	

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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	Alhareth	Maaya	Unilateral Biportal Endoscopic Spine Surgery: Managing Complex and Revision Cases with a Minimally Invasive Approach	36	
P	Marion	Sylvain	Does Image Guidance Reduce Unexpected Returns to the Operating Room After Spinal Screw Fixation? A Systematic Review and Meta-analysis	41	
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	Mohamad	Bakhaidar	Simulation Training in Spinal Endoscopic Surgery: A Systematic Review of Current Status and Future Directions	125	Fellows
P	Mohamad	Bakhaidar	Development and Validation of a Porcine Simulation Model for Biportal Endoscopic Lumbar Decompression Training: A Prospective Study	142	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	
	Michael	Mulcahy	Unexpected intraoperative positive culture in presumed aseptic revision spine surgery: a propensity score-matched cohort study	33	Fellows
	Essam	Al-Attar	Spine Endoscopic Surgery: Our Experience and Outcomes in the Republic of Yemen – A One-Year Descriptive Study	60	
	Casey	Hatfield	A retrospective review of biphasic calcium phosphate bone graft with submicron surface topography in anterior cervical discectomy and fusion (ACDF) procedures 6 months postoperative	98	
	Thomas	Spoonmore	A retrospective analysis of a biphasic calcium phosphate bone graft with a submicron, needle-like surface topography used in anterior cervical discectomy and fusion and posterior spinal fusion procedures	100	

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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	Torsemid 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	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
	Fernando	Padilla-Lichtenberger	Determining the impact of concomitant traumatic brain injury on acute care outcomes following traumatic spinal cord injury	39	Fellows
	Fernando	Padilla-Lichtenberger	Early Improvement in Resilience Reduces Anxiety and Depression After Traumatic Spinal Cord Injury: A Prospective Longitudinal Study	40	Fellows
	Newton	Pimenta	Meta-analysis comparing 3D-printed guidance with conventional pedicle screw placement in minimally invasive instrumentation for thoracolumbar fractures	50	
	Naama	Rotem-Kohavi	Epidemiology of Work-related Traumatic SCI in British Columbia	83	
	Vincent	Ye	Predictors of In-hospital Mortality in Operative Spine Fracture Patients without Spinal Cord Injury	87	Fellows
	Gauthier	Lejeune	Evaluating the Reliability and Effectiveness of the Braden Score for Pressure Injury Prevention in Spinal Cord Injury Patients during the acute phase.	91	Fellows
	Hamza	Mahdi	Adult Cervical Spine Fractures in Osteopetrosis: A Systematic Review and Pragmatic Management Algorithm	96	Residents/MedS

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	Ramon	Guerra Barbosa	Endoscopic Decompression with Percutaneous Pedicle Screw Fixation for Thoracolumbar Burst Fractures: Systematic Review and Illustrative Cases	131	
	Newton	Pimenta	Robot-assisted versus conventional vertebral augmentation procedures. Bayesian metaanalysis and trial sequential analysis of randomized controlled studies	157	
	Margaret	Grant	Advancing Timely Surgical Decompression in Acute, Traumatic Spinal Cord Injury: From Best Practice Guideline to Provincial Implementation	176	
	Laureen	Hachem	Transcriptomic profiling of the injured spinal cord reveals insights into mechanisms of endogenous regeneration	203	Residents/MedS

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PAEDIATRIC					
	Rachelle	Imbeault	Three-Dimensional Changes Following Anterior Vertebral Body Tethering: Five-Year Preliminary Results	174	Resident/Med
	Gauthier	Lejeune	Impact of Scoliosis Surgery on Breast and Trunk Aesthetics in Female Patients	89	Fellows
	Gauthier	Lejeune	Cost-effectivity of preoperative tests in adolescent idiopathic scoliosis	90	Fellows
	Vivien	Chan	Anatomy of Spondylolysis Fractures in Adolescent Patients	14	
	Vivien	Chan	Patient Perspective on Adjunctive Treatment for Early Onset Scoliosis	17	
	Vivien	Chan	Longer Operative Times are Associated with Increased Morbidity in Pediatric Neuromuscular Scoliosis Surgery	20	
	Dorothy	Kim	Intervertebral Disc Stiffness as a Prognostic Biomarker for Adolescent Idiopathic Scoliosis: A Prospective Pilot Study	29	
	Vivien	Chan	Discharge with Opioids Is Associated with Reduced Length of Stay after Posterior Spinal Fusion for Scoliosis in Pediatric Patients	32	
	Alejandro	Peiro-Garcia	Impact on Quality of Life of Full-time and Night-time Braces in Adolescent Idiopathic Scoliosis: A Randomized Clinical Trial	70	
	Ali Asghar	Mohammadi Nasrabadi	Towards Automated Classification of Adolescent Idiopathic Scoliosis Using a Robust Deep Learning Approach	74	
	Nayef	Aluzime	Rate and Risk of Curve Progression in Moderate AIS Following Skeletal Maturity	149	
	Sager	Hanna	Clinical Validation of Real Time Topographical Assessment Using 3D Imaging Software	150	
	Eric	Parent	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	
	Elodie	Dembele	Acceptability and acceptance of a mobile health application for pediatric scoliosis monitoring among patients: a conceptual and empirical analysis	187	
	Jérémie	Thibault	Is school activity affected in individuals with severe adolescent idiopathic scoliosis undergoing surgery?	65	Resident/Med
	Jérémie	Thibault	Nighttime versus full-time bracing in adolescent idiopathic scoliosis: a comparative case series	66	Resident/Med
	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
	Justin	Dufresne	Semi-Automated 3D Reconstruction of Instrumented Postoperative Spines: Validation Against Surgeon Measurements	73	Resident/Med
	Kawami	Cao	Risk factors for prolonged length of stay following posterior spinal fusion for idiopathic scoliosis in paediatric patients	97	Resident/Med
	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
	Sophia	Mourcos	"Why'd I Come?": How Often Do Follow-Up Visits Lead to Management Changes in Adolescent Idiopathic Scoliosis?	145	Resident/Med
	William	Xue	Preliminary comparative evaluation of MOBI (My Orthopedic Brace Inventory) in adolescents with idiopathic scoliosis treated with a nighttime brace	179	Resident/Med
	Giulia	Prioriello	3D-Printed Patient-Specific Brace for Adolescent Idiopathic Scoliosis: Preliminary Evaluation of Feasibility, Acceptability, and Immediate Correction	185	Resident/Med
	Omar	Elsemin	Reliability and Agreement in the Use of an AI-Assisted 3D Imaging Application for Home-Based Scoliosis Monitoring	190	Resident/Med