

26th Annual Scientific Conference of the Canadian Spine Society

ABSTRACT ID	PROGRAM CODE	START TIME	END TIME	PRESENTER FIRST NAME	PRESENTER LAST NAME	TITLE	AWARDS
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TUESDAY MORNING PODIUM PRESENTATIONS MARCH 3

MODERATORS: Dr Colby Oitment & Dr Chris Small

		0730	1030			#A1 - #A21: Lumbar Degenerative, Socioeconomic, Other	
210	A1	0730	0736	Bhushan	Thombre	Longitudinal changes in comprehensive radiographic parameters following short segment surgery (1-2 level) for degenerative lumbar spondylolisthesis.	Fellows
45	A2	0737	0743	Chloe	Cadieux	Measuring Spinopelvic Parameters in Patients with 6 Lumbar Vertebrae: A Matched Comparison of Asymptomatic Volunteers	Fellows
188	A3	0744	0750	Aazad	Abbas	Supervised and Unsupervised Machine Learning Reveals Distinct Clinical Phenotypes Across Degenerative Lumbar Conditions: Sex-Specific Clustering for Personalized Surgical Care	Resident/Med
173	A4	0751	0757	Renan	Fernandes	Does Disc Degeneration Matter? Outcomes of Decompression-Along Surgery in Low-Grade Spondylolisthesis	
		0757	0804	DISCUSSION	Q&A		
110	A5	0804	0810	Perrine	Coquelet	Intervertebral disc degeneration in humans: altered peripheral immune cell profile in patients and inflammation-mediated MMP upregulation by human disc cells	
58	A6	0811	0817	Drew	Bednar	Domino toppling: When the disruption of one disc negatively impacts its neighbour. An investigation into the mechanism of adjacent segment disease	
119	A7	0818	0824	Justin	King	Multimodal analgesia after surgery for thoracolumbar spinal stenosis	Resident/Med
133	A8	0825	0831	Mohamad	Bakhaidar	Lumbar Foraminal Morphology Can Affect Outcomes of Indirect Decompression: A Novel Classification	Fellows
		0831	0838	DISCUSSION	Q&A		
163	A9	0838	0844	Laszlo	Kiss	Predictors of intraoperative vascular complications during anterior lumbar spinal exposure: a retrospective analysis	Fellows
71	A10	0845	0851	Jeremy	Bergeron	Higher Rates of Fusion with Porous Titanium than with PEEK Lumbar Interbody Cages: a Retrospective Cohort Study	Resident/Med
205	A11	0852	0858	Bhushan	Thombre	Can measuring Pre-operative Post-void urine residual values influence care in patients undergoing elective spine surgeries	Fellows
155	A12	0859	0905	Y. Raja	Rampersaud	To Respond or Not to Respond: The Many Faces of Recovery After Lumbar Spine Surgery	
93	A13	0906	0912	Duy	Phan	Post-operative outcomes in primary versus revision lumbar decompressive surgery: a propensity-matched analysis	
		0912	0921	DISCUSSION	Q&A		

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11	A14	0921	0927	Dresden	Forshner	What are the Barriers and Enablers Influencing Physical Activity Among Patients Awaiting Spine Surgery? A Qualitative Study Guided by the Theoretical Domains Framework.	
47	A15	0928	0934	Taryn	Ludwig	Effects of Childbearing on Spinopelvic Alignment (EChOS)	Fellows
151	A16	0935	0942	Rodrigo	Borges	Clinical and Radiological Outcomes of Biptoral Endoscopic Lumbar Interbody Fusion Using OLIF-Type Cage: Preliminary Results and Learning Curve Analysis	
175	A17	0943	0949	Mark	MacLean	Artificial Intelligence for Spine Surgery Education: A Comparative Analysis of ChatGPT and DeepSeek Performance	
		0949	0956	DISCUSSION	Q&A		
206	A18	0956	1002	Bhushan	Thombre	SpineNavigator: A Surgeon-Trained Large Language Model to Enhance Communication and Patient Education in Spine Surgery	Fellows
199	A19	1003	1009	Ragavan	Manoharan	Does comorbidity count, the ASA score, or Quan-CCI better predict morbidity after elective spinal surgery?	
208	A20	1010	1016	George	Zhao	Factors Associated with Perioperative Adverse Events in Patients with Degenerative Lumbar Spondylolisthesis	Resident/Med
102	A21	1017	1023	Eva	Liu	Implementation of an Awake Spine Surgery Program in Canada: Lessons Learned from the Surgeon's Perspective	Resident/Med
		1023	1030	DISCUSSION	Q&A		

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WEDNESDAY MORNING PODIUM PRESENTATIONS MARCH 4							
MODERATORS: Dr Drew Bednar & Dr Jetan Badhiwala							
		0720	0930			#B22 - #B36: Cervical Degenerative, Other	
211	B22	0720	0726	Mohammed Ali	Alvi	Longitudinal Finite Mixture Models for Mining Complex Prognostic Phenotypes of Degenerative Cervical Myelopathy	
198	B23	0727	0733	Sean	Christie	Environmental Impacts of a Cervical Laminectomy and Fusion Procedure from First Consultation to Patient Recovery: Insights from a Life Cycle Assessment	
3	B24	0734	0740	Vishwathsen	Karthikeyan	Reframing Mild Degenerative Cervical Myelopathy: Insights from a Latent Profile Analysis	Resident/Med
		0740	0746	DISCUSSION	Q&A		
62	B25	0746	0752	Alexander	McCarton	Predictive Algorithm for Treatment Recommendation between Operative and Nonoperative Management in Mild Degenerative Cervical Myelopathy	
113	B26	0753	0759	Daniel	Kurtz	Machine Learning Classification of Patients with Degenerative Cervical Myelopathy into Clinically Relevant Clusters and Development of an Adoptable Clinical Algorithm	Resident/Med
6	B27	0800	0806	Christopher	Lozano	Re-assessing the Minimal Clinically Important Differences of Patient Reported Outcomes in Cervical Myelopathy: A Patient-Centered Approach from the Canadian Spine Outcomes and Research Network	Resident/Med
		0806	0812	DISCUSSION	Q&A		
191	B28	0812	0818	Mark	MacLean	Current Practices in Return-To-Play Recommendations for Recreational Athletes Following Cervical Spine Surgeries: A Preliminary Global Survey	
167	B29	0819	0825	Omar	Siddiqi	Cage subsidence and fusion in ACDF, a comparison between autograft, allograft, and synthetic cages	Resident/Med
123	B30	0826	0832	Shintaro	Honda	Quantifying Cervical Cord Deformation with Automated MRI: Validation and Clinical Correlates in Degenerative Cervical Myelopathy	Fellows
		0832	0838	DISCUSSION	Q&A		
25	B31	0838	0844	Robert	Ravinsky	The Impact of Estrogen Replacement Therapy on Revision Rates and Outcomes After Anterior Cervical Discectomy and Fusion: A Propensity Matched Cohort Study	
168	B32	0845	0851	Mouad	Elganga	Imaging Biomarkers Derived Using an Artificial Intelligence Pipeline Enhance Prognostication of Patients Undergoing Surgery for Nontraumatic Spinal Cord Injury due to Degenerative Cervical Myelopathy	Resident/Med
103	B33	0852	0858	Kevin	Clesham	What Patients Expect and What They Experience: Symptom-Specific Expectation Fulfillment and Functional Recovery in Degenerative Cervical Myelopathy: A retrospective analysis of prospectively collected data from the multicenter Canadian Surgical Spine Registry (CSORN).	Fellows
		0858	0904	DISCUSSION	Q&A		
27	B34	0904	0910	Jaskaran	Singh	Biomechanical Comparison of Seven Occipital-Cervical Fixation Constructs using Finite Element Analysis	Resident/Med
147	B35	0911	0917	Nordan	Flaaten	Outpatient Anterior Cervical Decompression and Fusion: A Survey of Canadian Surgeons	Resident/Med
126	B36	0918	0925	Hsuan Ming	Su	National Trends in Surgical Approach for Degenerative Cervical Myelopathy and Associated Inpatient Costs	Resident/Med
		0925	0931	DISCUSSION	Q&A		

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WEDNESDAY AFTERNOON PODIUM PRESENTATIONS MARCH 4							
MODERATORS: Dr Aaron Hockley & Dr Daniel Warren							
		1600	1645			#C37 - #C41: Deformity, Non-Surgical Management	
106	C37	1600	1606	Vanessa	Giddins	Variability of Mechanism of Mechanical Complications Between Low-Thoracic to Pelvis and Lumbar to Pelvis Fusions Accurately Predicted by Musculoskeletal Analysis	Fellows
76	C38	1607	1613	Pawel	Jankowski	Outcomes of Circumferential Minimally Invasive Technique vs Open Technique in Adult Spinal Deformity Surgery Patients Over 80 Years of Age: A Propensity-Matched Analysis	
212	C39	1614	1620	Ganesh	Swamy	Adult degenerative scoliosis is caused by disproportionate loss of mechanical properties of the annulus fibrosus	
61	C40	1621	1627	Scott	Paquette	Outcomes of Spinal Cord Stimulation in Patients with Non-Surgical Refractory Back and/or Lower Extremity Radicular Pain: A Single-Centre, Retrospective Review	
127	C41	1628	1634	Mohamad	Bakhaidar	Distal Junctional Kyphosis at the Cervicothoracic Junction in Adult Cervical Deformity: A Systematic Review and Future Direction	Fellows
		1634	1645	DISCUSSION	Q&A		

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THURSDAY MORNING PODIUM PRESENTATIONS MARCH 5							
MODERATORS: Dr Ahmed Aoude & Dr Étienne Bourassa-Moreau							
		0955	1115			#D42 - #D51: Lumbar Degenerative, Trauma / SCI, Oncology	
182	D42	0955	1001	Ariane	Leblanc-Grant	ElectroSacroGram (ESG): a novel point-of-care neurophysiological tool for early detection of incomplete cauda equina or conus medullaris syndrome to improve surgical triage	Resident/Med
171	D43	1002	1008	Andreane	Richard-Denis	A randomized controlled trial evaluating the effectiveness of a five-layer foam dressing in preventing sacral pressure injuries after acute spinal cord injury	
183	D44	1009	1015	Aazad	Abbas	Timing of Thromboprophylaxis in Acute Spinal Cord Injury Patients: A TQIP Study	Resident/Med
		1015	1019	DISCUSSION	Q&A		
214	D45	1019	1025	Andrew	Jack	Characterization of Canadian Traumatic Spinal Cord Injury Patient Candidates For Upper Extremity Functional Restoration Through Peripheral Nerve Transfer	
114	D46	1026	1032	Aidan	Beresford	Implications of Polypharmacy to Clinical Practice for Traumatic Spinal Cord Injury: A Population-based approach	
135	D47	1033	1039	Vivian	Le	Performance of Prognostic Scores in Breast Cancer Patients with Spinal Metastases Undergoing Surgery	Resident/Med
		1039	1044	DISCUSSION	Q&A		
201	D48	1044	1050	Mark	MacLean	International Delphi Consensus on Defining the Optimal Surgical Composite Outcome in Primary Malignant Bone Tumors of The Spine	
31	D49	1051	1057	Taryn	Ludwig	Impact of Bowel and Bladder Dysfunction on Patient Reported Outcomes in Patients Undergoing a Sacrectomy for a Primary Bone Tumor	Fellows
18	D50	1058	1104	Vivien	Chan	Reoperation Rates Following Spinal Epidural Abscess Evacuation with and without Instrumentation	
30	D51	1105	1111	Jean-Marc	Mac-Thiong	Early in-bed cycling during acute hospitalization modulates spinal cord excitability after traumatic spinal cord injury	
		1111	1117	DISCUSSION	Q&A		

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PART I - THURSDAY AFTERNOON PODIUM PRESENTATIONS MARCH 5							
MODERATORS: Dr Andrea Simmonds & Dr Fred Nicholls							
		1320	1424			#E52 - #E56: Adult Deformity	
209	E52	1345	1351	Maxime	Bedard	Decompressions alone in patients with Adult Spinal Deformity have variable outcomes – pilot data from the CSORN ASD registry	Resident/Med
104	E53	1352	1358	Christopher	Nielsen	Comparing Realignment Strategies in Lumbar-to-Pelvic Fusion: Insights from GAP Score and Biomechanical Loading	
77	E54	1358	1404	Pawel	Jankowski	Durability of Adult Spinal Deformity Correction Based on Upper Instrumented Level and Baseline Deformity Severity: A Survival Analysis of a Prospective, 18-Center Study	
161	E55	1404	1410	Laszlo	Kiss	2D Predictive Modelling of Proximal Junctional Failure in patients undergoing Adult Spinal Deformity surgery	Fellows
130	E56	1411	1417	Bandar	Alzahrani	Rod Fracture After spine Fusion: Distinguishing Fusion Mass Failure from Pseudarthrosis, A 10-Year Single-Center Experience	Fellows
		1417	1424	DISCUSSION	Q&A		
PART II - THURSDAY AFTERNOON PODIUM PRESENTATIONS MARCH 5							
MODERATORS: Dr Andrea Simmonds & Dr Fred Nicholls							
		1425	1515			#F57 - #F62: Paediatric Deformity	
1	F57	1425	1431	Jean	Ouellet	A Step Closer To Bringing Idiopathic Scoliosis Monitoring At Home: A Smartphone App Accurately Generates Digital Twins in 624 Pediatric Patients	
72	F58	1432	1438	Justin	Dufresne	Three-Dimensional Parameters Predicting Postoperative Success After Growth Modulation (VBT) in Adolescent Idiopathic Scoliosis	Resident/Med
138	F59	1439	1445	Rayan	Affes	Three-Dimensional Radiological Predictors of Brace Treatment Outcomes in Adolescent Idiopathic Scoliosis	Resident/Med
		1445	1450	DISCUSSION	Q&A		
186	F60	1450	1456	Sunny	Chaudhary	Minimally Invasive Bipolar Fixation Versus Conventional Open Posterior Spinal Fusion in Neuromuscular Scoliosis: A Retrospective Comparative Study of Perioperative and Short-term Outcomes	Fellows
67	F61	1457	1503	Abdulrahman	Al-Naseem	A meta-analysis of the role of erector spinae plane block for perioperative analgesia in posterior spinal fusion surgery for paediatric scoliosis	Resident/Med
148	F62	1504	1510	Sager	Hanna	Prospective, Multicenter Comparison of Hybrid and Bilateral VBT in the Treatment of Idiopathic Scoliosis	
		1510	1515	DISCUSSION	Q&A		

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FRIDAY MORNING PODIUM PRESENTATIONS MARCH 6							CPSS
MODERATORS: Dr Stefan Parent & Dr Jean Ouellet							
		0820	0910			#G57 - #G62: Paediatric Deformity	
80	G63	0820	0826	Jennifer	Dermott	"It was so easy to miss": a qualitative exploration of scoliosis diagnosis from an adolescent and parent perspective	
16	G64	0827	0833	Vivien	Chan	Frailty and Surgical Invasiveness are Independent and Synergistic Predictors of Complications in Pediatric Spinal Deformity Surgery	
15	G65	0834	0840	Vivien	Chan	Spondylolysis and Spondylolisthesis is associated with Disc Degeneration in Pediatric Patients	
		0840	0845	DISCUSSION	Q&A		
68	G66	0845	0851	Abdulrahman	Al-Naseem	Radiological predictors of intraoperative neuromonitoring alerts in thoracic-spine deformity correction surgery: a retrospective cohort study	Resident/Med
140	G67	0852	0858	Navid	Ghaderi	Defining Segment-Specific Rod Protrusion Safe Zones in Spinal Fusion Surgery Using CT-Based 3D Modeling	Resident/Med
92	G68	0859	0905	Kevin	Smit	Does tether failure lead to a lower LIV at posterior spinal fusion?	
		0905	0910	DISCUSSION	Q&A		