

CSRS 49th Annual Meeting and 26th Instructional Course
Preliminary Speaker/Moderator List by Last Name
Updated 8/19/2021

Presenter Last name, First name	Presentation	Presentation Start	Presentation End	Session Title	Role	Date	Start Time	End Time	CSRS Abstract ID
Abitbol, Jean-Jacques	Meeting Preview - CSRS 50th Annual Meeting and 27th Instructional Course in San Diego, CA	1:31 PM	1:36 PM	Session 6: Meeting Previews; Awards - Paper & E-Poster Awards Presentations, Lifetime Achievement Award	Honored Speaker	12/3/2021	1:30 PM	2:06 PM	
Abtahi, Amir	Randomized Trial of Opioid vs. Non-Opioid Postoperative Pain Regimens After Anterior Cervical Discectomy and Fusion	9:22 AM	9:24 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Ago, Kentaro	Novel In Vivo Imaging System of Grafted Human iPS Cell-Derived Neuron Activity after Spinal Cord Injury	8:02 AM	8:07 AM	Session 4: Abstracts - Epidemiology, Etiology, and Natural History; Basic Science	Presenter	12/3/2021	7:10 AM	8:30 AM	PGP039
Akbar, Muhammad Ali	Neuroimaging Biomarkers Correlate With Disease Severity In Degenerative Cervical Myelopathy	11:17 AM	11:22 AM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP073
Alluri, Ram	Cervical Disc Replacement for Radiculopathy versus Myeloradiculopathy. An MCID Analysis.	9:55 AM	10:00 AM	Session 2: Abstracts - Top Reviewed	Presenter	12/2/2021	9:54 AM	11:18 AM	PGP011

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				'Sweet Sixteen' Pt. I					
Alluri, Ram	Anterior Cervical Discectomy and Fusion V. Cervical Disc Replacement for Cervical Spondylotic Myelopathy. An MCID Comparison			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP006
Ames, Chris	Master Class Video: Deformity Technique	9:01 PM	9:11 PM	Deformity for Bread & Butter Cervical Spine Surgeons	Faculty	11/29/2021	8:20 PM	9:30 PM	
Amorosa, Louis				Session 2: Abstracts - Top Reviewed 'Sweet Sixteen' Pt. I	Moderator	12/2/2021	9:54 AM	11:18 AM	
Anderst, William	Longitudinal Changes in Adjacent Segment Disc Deformation After Cervical Arthrodesis	10:51 AM	10:56 AM	Session 5: Abstracts - Biomechanics; Complications	Presenter	12/3/2021	10:50 AM	12:06 PM	PGP042
Anderst, William	Adjacent Level Kinematics Following One- and Two- Level Anterior Cervical Discectomy and Fusion	11:16 AM	11:21 AM	Session 5: Abstracts - Biomechanics; Complications	Presenter	12/3/2021	10:50 AM	12:06 PM	PGP047
Arnold, Paul				Degenerative Pt. I	ICL Moderator	11/29/2021	7:00 PM	8:10 PM	
Arnold, Paul				Degenerative Pt. II	ICL Moderator	12/1/2021	6:47 PM	7:22 PM	

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Arpey, Nicholas	Does Recall Bias Exist in Cervical Spine Surgery Patients As Reported Through PROMIS Questionnaires?			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP007
Badhiwala, Jetan	The influence of timing of surgical decompression for acute spinal cord injury: a pooled analysis of individual patient data in 1,548 cases	10:00 AM	10:05 AM	Session 2: Abstracts - Top Reviewed 'Sweet Sixteen' Pt. I	Presenter	12/2/2021	9:54 AM	11:18 AM	PGP012
Baek, Seung Hyun	What is the fate of pseudarthrosis detected 2 years after anterior cervical discectomy and fusion? Results of a minimum of 5-years follow-up	2:55 PM	3:00 PM	Session 7: Abstracts - Outcomes Pt. II	Presenter	12/3/2021	2:06 PM	3:28 PM	PGP059
Baisden, Jamie	Finite Element Modeling to Determine the Effect of a Hybrid Construct Adjacent to a Cervical Disc Arthroplasty	10:56 AM	11:01 AM	Session 5: Abstracts - Biomechanics; Complications	Presenter	12/3/2021	10:50 AM	12:06 PM	PGP043
Baisden, Jamie	Rethinking the Jefferson Fracture			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP008
Balas, Michael	The Practical Reality of Accomplishing Surgery Within 24 hours for Complete Cervical Spinal Cord Injury: A Study of Clinical Practices and Safety Profile at North American Trauma Centers			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP009

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Berman, Daniel	Comparison of Clinical Guidelines for Reimbursement for Intra-Operative Neuromonitoring During Spine Surgery in the United States	10:05 AM	10:10 AM	Session 2: Abstracts - Top Reviewed 'Sweet Sixteen' Pt. I	Presenter	12/2/2021	9:54 AM	11:18 AM	PGP013
Bible, Jesse	Infection: Update on The Primary Cervical Infection (Discitis, Epidural Infection), Surgical Options (Fixation, Graft Material), Perioperative Management	7:42 PM	7:51 PM	Tumor and Infection Pt. I	Faculty	11/30/2021	7:00 PM	8:12 PM	
Bible, Jesse				Cervical Trauma Pt. I	ICL Moderator	11/30/2021	8:20 PM	9:30 PM	
Bible, Jesse				Cervical Trauma Pt. II	ICL Moderator	12/1/2021	5:00 PM	5:37 PM	
Bible, Jesse	Is Vaporized Nicotine as Detrimental to Spinal Fusions as Cigarette Smoke?	9:12 AM	9:14 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Bisson, Erica	DEBATE - Traumatic Cervical Facet Fractures without Dislocation: I fix them	9:58 AM	10:07 AM	Symposia 5: Master Debate Series Pt. II	Faculty	12/4/2021	9:56 AM	10:56 AM	
Boehm, Blake	Surgical Outcomes in Non-ambulatory Patients with Degenerative Cervical Myelopathy			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP010
Brodke, Darrel	DEBATE (Battle of CSRS Presidents) - Managing Subaxial Cervical Kyphosis: Posterior Only	6:28 PM	6:36 PM	Basic Principles of Cervical Deformity,	Faculty	12/1/2021	6:12 PM	6:47 PM	

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	Osteotomies are Best; Why Go in the Front at All?			Pearls and Pitfalls					
Brodke, Darrel	Introduction	3:52 PM	3:54 PM	Symposia 4: Master Debate Series I	Moderator	12/3/2021	3:52 PM	5:00 PM	
Bumpass, David	Posterior Cervical Spinal Fusion Assemblies Intended to Cross the Cervicothoracic Junction: A Mechanical Analysis	10:10 AM	10:15 AM	Session 2: Abstracts - Top Reviewed 'Sweet Sixteen' Pt. I	Presenter	12/2/2021	9:54 AM	11:18 AM	PGP014
Canseco, Jose	The Role of Calcitonin Gene-Related Peptide in Intervertebral Disc Neurogenic Inflammation: A Potential Therapeutic Target for Discogenic Pain	9:02 AM	9:04 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Carelli, Luis	Case Presentation V	8:33 AM	8:40 AM	Live-Virtual CSRS Affiliate Organization Session II: CSRS Europe - A Great Case Due to the Right Decision	Video Presenter	11/30/2021	8:00 AM	9:00 AM	
Carlile, Catherine	Delayed Upper Aerodigestive Tract Perforation from Anterior Cervical Spine Hardware: Treatment and Swallowing Outcomes	11:33 AM	11:38 AM	Session 5: Abstracts - Biomechanics; Complications	Presenter	12/3/2021	10:50 AM	12:06 PM	PGP049
Carlson, Bayard	Choose Wisely--ACDF and Cervical Disc Arthroplasty in the Outpatient Setting			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP011

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Cha, Elliot	Meeting Preoperative Expectations Predicts Patient Satisfaction following Anterior Cervical Discectomy and Fusion			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP012
Cha, Elliot	Preoperative Sleep Difficulty Predicts Clinically Significant Improvement Following ACDF			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP013
Cha, Elliot	Use of Multimodal Analgesic Protocol for Management of Postoperative Pain Following Cervical Laminoplasty: Clinical Case Series			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP014
Cha, Thomas	In Vivo Deformation Patterns of Craniocervical Ligaments during Dynamic Head Axial Rotation	11:01 AM	11:06 AM	Session 5: Abstracts - Biomechanics; Complications	Presenter	12/3/2021	10:50 AM	12:06 PM	PGP044
Cha, Thomas	In Vivo Kinematics of the Head-Neck Complex during Dynamic Head Axial Rotation	11:21 AM	11:26 AM	Session 5: Abstracts - Biomechanics; Complications	Presenter	12/3/2021	10:50 AM	12:06 PM	PGP048
Chan, Andrew	Cervical Myelopathy With Severe Neck Pain: Is Anterior Or Posterior Approach Better?			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP015
Chapman, Jens	DEBATE - In an Awake, Alert, Cooperative Patient with a Cervical Dislocation: Closed Reduction Always and then OR	10:27 AM	10:36 AM	Symposia 5: Master Debate Series Pt. II	Faculty	12/4/2021	9:56 AM	10:56 AM	

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Chen, Huajiang	Periprosthetic bone loss after artificial cervical disc replacement: a radiographic study			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP018
Chen, Huajiang	Measurement of cervical range of motion by Comprehensive Musculoskeletal Analysis System: Repeatability and reliability analysis			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP017
Chen, Xiong-sheng	Three-dimensional reduction method with a modified C2 isthmus screw in irreducible atlantoaxial dislocation: a technical note			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP016
Chiba, Yusuke	Risk factors of subaxial intervertebral disorder after occipitocervical or atlantoaxial fusions in rheumatoid arthritis			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP019
Cho, Samuel	DEBATE - Mildly Symptomatic Myelopathy: Wait and Watch	7:45 PM	7:53 PM	Degenerative Pt. I	Faculty	11/29/2021	7:00 PM	8:10 PM	
Cho, Samuel				Welcome	Honored Speaker	12/2/2021	7:00 AM	7:10 AM	
Cho, Samuel				Welcome	Honored Speaker	12/3/2021	7:00 AM	7:10 AM	
Cho, Samuel				Welcome	Honored Speaker	12/4/2021	8:00 AM	8:10 AM	
Cho, Samuel				Close of Meeting	Honored Speaker	12/4/2021	12:47 PM	12:55 PM	

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Coban, Daniel	Metal-On-Metal versus Metal-On-Plastic Artificial Discs in Two-Level Anterior Cervical Disc Replacement: A Meta-Analysis with Follow-Up of 5 Years or More			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP020
Coe, Jeffrey	Awards - Recognition of 2021 Paper and E-Poster Awards	1:46 PM	1:51 PM	Session 6: Meeting Previews; Awards - Paper & E-Poster Awards Presentations, Lifetime Achievement Award	Moderator	12/3/2021	1:30 PM	2:06 PM	
Coe, Jeffrey				Session 6: Meeting Previews; Awards - Paper & E-Poster Awards Presentations, Lifetime Achievement Award	Moderator	12/3/2021	1:30 PM	2:06 PM	
Crawford, Charles				Degenerative Pt. I	ICL Moderator	11/29/2021	7:00 PM	8:10 PM	
Crawford, Charles				Degenerative Pt. II	ICL Moderator	12/1/2021	6:47 PM	7:22 PM	

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Curtin, Patrick	Incidence of Noncontiguous Cervical Injury in Patients with Thoracic Spine Fractures	11:47 AM	11:52 AM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP077
Dailey, Andrew	When Should I Include or Exclude an Adjacent Segment Disc	9:12 AM	9:22 AM	Symposia 3: Deformity Consideration for the Everyday Cervical Degenerative Conditions	Faculty	12/3/2021	8:30 AM	9:41 AM	
Daubs, Michael				Symposia 5: Master Debate Series Pt. II	Moderator	12/4/2021	9:56 AM	10:56 AM	
de Dios, Eddie	Laminectomy Alone versus Laminectomy with Fusion for Degenerative Cervical Myelopathy - a Long-term Study of a National Cohort	12:27 PM	12:32 PM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP083
DelSole, Edward	Internet Video-Based Patient Education on ACDF and CTDR: A Quantitative Analysis of Content and Quality	11:37 AM	11:42 AM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP075
Deol, Gurvinder				Session 7: Abstracts - Outcomes Pt. II	Moderator	12/3/2021	2:06 PM	3:28 PM	
Devin, Clinton				Session 4: Abstracts - Epidemiology, Etiology, and Natural	Moderator	12/3/2021	7:10 AM	8:30 AM	

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				History; Basic Science					
DiMaria, Stephen	Myelopathic versus radiculopathic patients undergoing cervical spine surgery: Patient factors impacting baseline motor evoked potentials (MEPs)			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP021
Elliott, Iain	Advanced Compressive Extension Injuries are Often Mistaken for Bilateral Jumped Facets			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP022
Elysee, Jonathan	Cervical Deformity Score: A Composite Alignment Tool to Optimize Outcomes while Mitigating Complications for CSRS			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP023
Emery, Sanford	Lessons Learned from Past and Current CSRS-Funded Studies - Steroids for Dysphagia	1:38 PM	1:43 PM	Symposia 2: Pearls of Wisdom for a Successful Research Study	Faculty	12/2/2021	1:05 PM	2:05 PM	
Emery, Sanford	DEBATE - 2-Level CDD with Myelopathy: CDR	4:04 PM	4:14 PM	Symposia 4: Master Debate Series I	Faculty	12/3/2021	3:52 PM	5:00 PM	
Fatima, Nida	Is the Use of rh-BMP associated with Increased Incidence of Cancer?	4:38 PM	4:43 PM	Session 3: Abstracts - Deformity; Diagnostics and Imaging; Biologics and Bone Graft	Presenter	12/2/2021	3:40 PM	4:56 PM	PGP030

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Fehlings, Michael	Restored inhibitory signalling via AAV-mediated KCC2 upregulation recruits microglia to reorganize spinal neural circuits	3:10 PM	3:15 PM	Session 7: Abstracts - Outcomes Pt. II	Presenter	12/3/2021	2:06 PM	3:28 PM	PGP062
Fehlings, Michael G.	Neuroprotective and Regenerative Options for Spinal Cord Injury In 2021 and 2031	9:06 PM	9:16 PM	Cervical Trauma Pt. I	Faculty	11/30/2021	8:20 PM	9:30 PM	
Fehlings, Michael G.	Clinical Trials - Organization and Getting the Message Out to the Right People	1:21 PM	1:28 PM	Symposia 2: Pearls of Wisdom for a Successful Research Study	Faculty	12/2/2021	1:05 PM	2:05 PM	
Fennessy, Jacob	No Difference in Reoperation Rates in Posterior Cervical Fusions Stopping at C7 versus T1/T2 for Nonunions (Operative Nonunions): A cohort of 875 Patients - Part 2	8:26 AM	8:31 AM	Session 8 - Abstracts - Top Reviewed 'Sweet Sixteen' Pt. II	Presenter	12/4/2021	8:10 AM	8:56 AM	PGP066
Fisher, Charles G.	Tumor: Preoperative Considerations & Treatment Strategies for Cervical Metastasis	7:02 PM	7:09 PM	Tumor and Infection Pt. I	Faculty	11/30/2021	7:00 PM	8:12 PM	
Funaba, Masahiro	The associations between radiological and neurological findings of degenerative cervical myelopathy: Radiological analysis based on kinematic CT myelography and evoked potentials of spinal cord	3:00 PM	3:05 PM	Session 7: Abstracts - Outcomes Pt. II	Presenter	12/3/2021	2:06 PM	3:28 PM	PGP060

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Funaba, Masahiro	Radiological factors associated with the severity of corticospinal tract dysfunctions for cervical spondylotic myelopathy: An analysis of the central motor conduction time and kinematic CT myelography	12:12 PM	12:17 PM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP080
Funaba, Masahiro	The impact of anterior spondylolisthesis and kyphotic alignment on dynamic changes in spinal cord compression and neurological status in cervical spondylotic myelopathy: A radiological analysis involving kinematic CT myelography and	12:32 PM	12:37 PM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP084
Furlan, Julio	The effects of individual's sex on the management and outcomes of individuals with acute traumatic spinal cord injury: The results of a series of propensity-score matched cohort studies			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP024
Geoghegan, Cara	Impact of Depression Severity on Patient Reported Outcomes Following Multilevel Anterior Cervical Discectomy and Fusion	7:11 AM	7:16 AM	Session 1: Abstracts - Outcomes Pt. I	Presenter	12/2/2021	7:10 AM	8:24 AM	PGP001

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Geoghegan, Cara	Reduction in Postoperative Risk: One Surgeon's Evolution of Anterior Cervical Discectomy and Fusion			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP025
Gerlach, Erik	Does Persistent Opioid Use Predict Healthcare Resource Utilization after Cervical Spine Surgery?			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP026
Gerling, Michael				Tumor and Infection Pt. I	ICL Moderator	11/30/2021	7:00 PM	8:12 PM	
Gerling, Michael				Tumor and Infection Pt. II	ICL Moderator	12/1/2021	5:37 PM	6:12 PM	
Ghogawala, Zoher	DEBATE - Multi-Level Cervical Myelopathy: Laminoplasty is the Preferred Approach	6:47 PM	6:58 PM	Degenerative Pt. II	Faculty	12/1/2021	6:47 PM	7:22 PM	
Ghogawala, Zoher	Comparative effectiveness of surgical approaches for cervical myelopathy: quality of life assessments from the CSM-S trial	10:15 AM	10:20 AM	Session 2: Abstracts - Top Reviewed 'Sweet Sixteen' Pt. I	Presenter	12/2/2021	9:54 AM	11:18 AM	PGP015
Ghogawala, Zoher	Knowing How and When to Pivot in a Research Project	1:14 PM	1:21 PM	Symposia 2: Pearls of Wisdom for a Successful Research Study	Faculty	12/2/2021	1:05 PM	2:05 PM	
Ghogawala, Zoher				Symposia 2: Pearls of Wisdom for a Successful Research Study	Moderator	12/2/2021	1:05 PM	2:05 PM	

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Gokaslan, Ziya	Management & Avoidance of Surgical Complications (Anterior/Posterior Wound Complication, Mechanical Complication Etc.)	5:49 PM	6:01 PM	Tumor and Infection Pt. II	Faculty	12/1/2021	5:37 PM	6:12 PM	
Gowd, Anirudh	Prediction of Admission Costs Following Anterior Cervical Discectomy and Fusion Utilizing Machine Learning	9:28 AM	9:30 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Guyer, Richard	Cervical Total Disc Replacement: Available Implant Size Matters	10:34 AM	10:39 AM	Session 2: Abstracts - Top Reviewed 'Sweet Sixteen' Pt. I	Presenter	12/2/2021	9:54 AM	11:18 AM	PGP016
Guyer, Richard	Single-level Cervical Disc Replacement Using a PEEK-on-Ceramic Implant: Results of a Multicenter FDA IDE Trial with 24-month Follow-up	10:57 AM	11:02 AM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP069
Ha, Yoon	Global Perspectives - Asia Pacific	8:35 AM	8:40 AM	Symposia 1: Digital Transformation During the Pandemic: How Did COVID-19 Change the Practice of Cervical Spine Surgery?	Faculty	12/2/2021	8:24 AM	9:24 AM	

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Haid, Regis	How to Prevent Iatrogenic Deformity	8:42 AM	8:52 AM	Symposia 3: Deformity Consideration for the Everyday Cervical Degenerative Conditions	Faculty	12/3/2021	8:30 AM	9:41 AM	
Harrop, James	DEBATE - Bilateral Cervical Facet Dislocation: Posterior Fixation is Best	5:20 PM	5:28 PM	Cervical Trauma Pt. II	Faculty	12/1/2021	5:00 PM	5:37 PM	
Harrop, James	Introduction	10:11 AM	10:20 AM	Presidential Address	Honored Speaker	12/3/2021	10:11 AM	10:50 AM	
Harrop, James	Induction of New President	9:37 AM	9:41 AM	Presidential Farewell & Induction of New President	Honored Speaker	12/4/2021	9:31 AM	9:41 AM	
Havey, Robert	Supplemental Fixation of Lateral Mass Screws: A Strategy to Improve Posterior Cervical Fusion Fixation Strength	11:06 AM	11:11 AM	Session 5: Abstracts - Biomechanics; Complications	Presenter	12/3/2021	10:50 AM	12:06 PM	PGP045
Hecht, Andrew	DEBATE - Is Telemedicine Here to Stay? No, It's Worthless	8:53 AM	8:59 AM	Symposia 1: Digital Transformation During the Pandemic: How Did COVID-19 Change the Practice of Cervical Spine Surgery?	Faculty	12/2/2021	8:24 AM	9:24 AM	

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Heller, John	DEBATE - 3-Level CDD: Hybrid Approach	4:37 PM	4:47 PM	Symposia 4: Master Debate Series I	Faculty	12/3/2021	3:52 PM	5:00 PM	
Hershman, Stuart	Choice of UIV	8:52 AM	9:02 AM	Symposia 3: Deformity Consideration for the Everyday Cervical Degenerative Conditions	Faculty	12/3/2021	8:30 AM	9:41 AM	
Holly, Langston	Tumor: Prognostication, Surgery (Or Not) for Advanced Cervical Metastasis	7:09 PM	7:16 PM	Tumor and Infection Pt. I	Faculty	11/30/2021	7:00 PM	8:12 PM	
Holly, Langston				Symposia 3: Deformity Consideration for the Everyday Cervical Degenerative Conditions	Moderator	12/3/2021	8:30 AM	9:41 AM	
Horák, Tomáš	In vivo molecular signatures of cervical spinal cord pathology in degenerative compression			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP027
Horáková, Magda	Automated detection of cervical spinal cord compression and the reliability of morphometric parameters extracted with the Spinal Cord Toolbox			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP001

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Hsu, Wellington	Designing Research Questions - Study Considerations Leading to Success or Failure	1:07 PM	1:14 PM	Symposia 2: Pearls of Wisdom for a Successful Research Study	Faculty	12/2/2021	1:05 PM	2:05 PM	
Hsu, Wellington				Symposia 2: Pearls of Wisdom for a Successful Research Study	Moderator	12/2/2021	1:05 PM	2:05 PM	
Hsu, Wellington	Safety Evaluation of Hydroxyapatite-Demineralized Bone Matrix Composite Scaffold for Spinal Fusion	7:52 AM	7:57 AM	Session 4: Abstracts - Epidemiology, Etiology, and Natural History; Basic Science	Presenter	12/3/2021	7:10 AM	8:30 AM	PGP037
Hsu, Wellington	Introduction and Recognition of 2021 Research Grant Award Winners	8:56 AM	9:02 AM	Session 9: CSRS Past Research Grant Presentations	Moderator	12/4/2021	8:56 AM	9:32 AM	
Hsu, Wellington	3D Printed 2D Piezoelectric Materials to Deliver Stem Cells for Bone Repair and Regeneration	9:24 AM	9:26 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Ito, Sadayuki	Enoxaparin promotes functional recovery after spinal cord injury by antagonizing PTPR sigma	12:17 PM	12:22 PM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP081
Jack, Andrew	Cervical Stiffness Disability Index (CSDI): Validation of a Novel Scoring System Quantifying the Effect of Post-Arthrodesis Cervical	2:07 PM	2:12 PM	Session 7: Abstracts - Outcomes Pt. II	Presenter	12/3/2021	2:06 PM	3:28 PM	PGP052

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	Stiffness on Patient Quality of Life								
Jadcak, Caroline	Re-emergence of Depressive Symptoms and Associated Risk Factors in Cervical Spine Patients			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP028
Jain, Nikhil	Simulated Bundled Payments for Four Common Surgical Approaches to Treat Cervical Spondylotic Myelopathy: A Consideration to Break the Clinical Equipoise	10:39 AM	10:44 AM	Session 2: Abstracts - Top Reviewed 'Sweet Sixteen' Pt. I	Presenter	12/2/2021	9:54 AM	11:18 AM	PGP017
Jamieson, Alysha	Does Screw Length Impact 1-Year Fixation in 3-Level Anterior Cervical Discectomy and Fusion?			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP029
Jeszensky, Dezso	Case Presentation IV	8:26 AM	8:33 AM	Live-Virtual CSRS Affiliate Organization Session II: CSRS Europe - A Great Case Due to the Right Decision	Video Presenter	11/30/2021	8:00 AM	9:00 AM	
Joshi, Rushikesh	Understanding the Effects of Three-Column Osteotomies on Regional and Global Alignment in patients with Moderate to Severe Cervical Deformity	3:41 PM	3:46 PM	Session 3: Abstracts - Deformity; Diagnostcs and Imaging; Biologics and Bone Graft	Presenter	12/2/2021	3:40 PM	4:56 PM	PGP021

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Kaito, Takashi	Exploring Prognostic Brain Biomarkers for Cervical Myelopathy: A Resting-State Functional MRI Multicenter Study	9:20 AM	9:22 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Kakadiya, Ghanshyam	Outcomes of the subaxial cervical spine tuberculosis operated with the anterior approach surgery			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP030
Kamalapathy, Pramod	Evaluation of Gait and Functional Stability in Preoperative Cervical Spondylotic Myelopathy Patients8.7.3	11:07 AM	11:12 AM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP071
Kang, James	New Approaches in Salamanders as Platforms for Uncovering Spinal Cord Regeneration Factors	9:06 AM	9:08 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Karamian, Brian	No Difference in Clinical Outcomes When Instrumenting Across the Cervicothoracic Junction in Multilevel Posterior Cervical Fusion	7:16 AM	7:21 AM	Session 1: Abstracts - Outcomes Pt. I	Presenter	12/2/2021	7:10 AM	8:24 AM	PGP002
Karamian, Brian	Do Inflammatory Cytokines Affect Patient Outcomes after ACDF?	10:44 AM	10:49 AM	Session 2: Abstracts - Top Reviewed 'Sweet Sixteen' Pt. I	Presenter	12/2/2021	9:54 AM	11:18 AM	PGP018
Karamian, Brian	Do Favorable Short-term Patient Reported Outcomes after ACDF Predict Loss to One- and Two-Year Follow-Up?	7:31 AM	7:36 AM	Session 4: Abstracts - Epidemiology, Etiology, and Natural History; Basic Science	Presenter	12/3/2021	7:10 AM	8:30 AM	PGP035

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Karamian, Brian	International Validation of the AO Spine Subaxial Injury Classification System: The Importance of Methodology	11:52 AM	11:57 AM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP078
Katz, Austen	Discharge to Rehabilitation Predicts Greater Morbidity in Patients Undergoing Posterior Cervical Decompression and Fusion	10:49 AM	10:54 AM	Session 2: Abstracts - Top Reviewed 'Sweet Sixteen' Pt. I	Presenter	12/2/2021	9:54 AM	11:18 AM	PGP019
Kawai, Momotaro	Long-term Selective Stimulation of Transplanted Neural Stem/Progenitor Cells for Spinal Cord Injury Improves Locomotor Function Mediated by Increased Synaptic Transmission	8:07 AM	8:12 AM	Session 4: Abstracts - Epidemiology, Etiology, and Natural History; Basic Science	Presenter	12/3/2021	7:10 AM	8:30 AM	PGP040
Kepler, Chris	Management of The Octa-Or Nonagenarian in Nursing Home with Odontoid Fracture. What are my Treatment Considerations?	8:21 PM	8:31 PM	Cervical Trauma Pt. I	Faculty	11/30/2021	8:20 PM	9:30 PM	
Kepler, Christopher	Lessons Learned from Past and Current CSRS-Funded Studies - C12 Fusion vs. Bracing	1:28 PM	1:33 PM	Symposia 2: Pearls of Wisdom for a Successful Research Study	Faculty	12/2/2021	1:05 PM	2:05 PM	
Kerolus, Mena	Physical Examination Findings of Patients With Myelopathy and Diabetes Mellitus	7:26 AM	7:31 AM	Session 4: Abstracts - Epidemiology, Etiology, and Natural	Presenter	12/3/2021	7:10 AM	8:30 AM	PGP034

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				History; Basic Science					
Kerolus, Mena	Cervical Radiograph parameters in 1-, 2- and 3-level anterior cervical discectomy and fusion with 12.5° hyperlordotic allografts			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP031
Kim, Jinseong	Cervical Laminectomy with Instrumented Fusion is Associated with a Higher Incidence of Postoperative C5 Palsy Compared to Cervical Laminoplasty with Reconstruction: Single Surgeon and National Inpatient	10:54 AM	11:05 AM	Session 2: Abstracts - Top Reviewed 'Sweet Sixteen' Pt. I	Presenter	12/2/2021	9:54 AM	11:18 AM	PGP020
Kitagawa, Takahiro	Chemical control of grafted human iPSC derived neurons demonstrated the contribution of graft neuronal activity to the recovery following spinal cord injury	8:12 AM	8:17 AM	Session 4: Abstracts - Epidemiology, Etiology, and Natural History; Basic Science	Presenter	12/3/2021	7:10 AM	8:30 AM	PGP041
Kitamura, Kazuya	Evaluating the paradigm shift from anterior cervical decompression and fusion to posterior muscle-preserving selective laminectomy - a single center study of	2:17 PM	2:22 PM	Session 7: Abstracts - Outcomes Pt. II	Presenter	12/3/2021	2:06 PM	3:28 PM	PGP054

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	degenerative cervical myelopathy								
Klekamp, Jorg	Case Presentation III	8:19 AM	8:26 AM	Live-Virtual CSRS Affiliate Organization Session II: CSRS Europe - A Great Case Due to the Right Decision	Video Presenter	11/30/2021	8:00 AM	9:00 AM	
Koller, Heiko	Introduction	8:02 AM	8:05 AM	Live-Virtual CSRS Affiliate Organization Session II: CSRS Europe - A Great Case Due to the Right Decision	Moderator	11/30/2021	8:00 AM	9:00 AM	
Koller, Heiko	Global Perspectives - Europe	8:30 AM	8:35 AM	Symposia 1: Digital Transformation During the Pandemic: How Did COVID-19 Change the Practice of Cervical Spine Surgery?	Faculty	12/2/2021	8:24 AM	9:24 AM	

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				Session 6: Meeting Previews; Awards - Paper & E-Poster Awards Presentations, Lifetime Achievement Award	Honored Speaker				
Koller, Heiko	2022 Meeting Preview - CSRS Europe	1:36 PM	1:41 PM			12/3/2021	1:30 PM	2:06 PM	
Kwon, Brian K.	Hemodynamic Management of Cervical Spinal Cord Injury Patients: What Should We be Targeting?	8:51 PM	9:01 PM	Cervical Trauma Pt. I	Faculty	11/30/2021	8:20 PM	9:30 PM	
Lafage, Renaud	Proximal and Distal Reciprocal Changes Following Cervical Deformity Malalignment Correction	3:46 PM	3:51 PM	Session 3: Abstracts - Deformity; Diagnosis and Imaging; Biologics and Bone Graft	Presenter	12/2/2021	3:40 PM	4:56 PM	PGP022
Lafage, Virginie	The Timing and Reasons for Revision Surgery After Cervical Deformity Correction			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP032
Lawrence, Brandon	DEBATE - Bilateral Cervical Facet Dislocation: Anterior Fixation is Best	5:12 PM	5:20 PM	Cervical Trauma Pt. II	Faculty	12/1/2021	5:00 PM	5:37 PM	
Lee, Hyung Rae	Predictive Factors for the Aggravation of Cervical Alignment after Posterior Cervical Foraminotomy	8:11 AM	8:16 AM	Session 8 - Abstracts - Top Reviewed 'Sweet Sixteen' Pt. II	Presenter	12/4/2021	8:10 AM	8:56 AM	PGP063

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Lee, Jun Hee	Skip laminoplasty as a novel posterior decompression technique to decrease interlaminar fusion and preserve cervical range of motion	11:12 AM	11:17 AM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP072
Lee, Sang				Tumor and Infection Pt. I	ICL Moderator	11/30/2021	7:00 PM	8:12 PM	
Lee, Sang Hun	Master Class Video: Posterior Endoscopic Techniques for Cervical Radiculopathy	7:29 PM	7:37 PM	Degenerative Pt. I	Faculty	11/29/2021	7:00 PM	8:10 PM	
Lee, Sang Hun				Tumor and Infection Pt. II	ICL Moderator	12/1/2021	5:37 PM	6:12 PM	
Lee, Subum	Cervical Alignment Following Posterior Cervical Fusion Surgery: Cervical Pedicle Screw Versus Lateral Mass Screw Fixation			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP033
Levy, Hannah	The Impact of Preoperative Duration of Symptoms on Patient Outcomes after PCDF			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP035
Levy, Hannah	Does a High Postoperative Opioid Dose Predict Chronic Use after ACDF?			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP034
Liang, Guoyan	Influence of preoperative smoking status on clinical outcomes of laminoplasty in patients with degenerative cervical myelopathy: a prospective study	2:12 PM	2:17 PM	Session 7: Abstracts - Outcomes Pt. II	Presenter	12/3/2021	2:06 PM	3:28 PM	PGP053

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Liang, Guoyan	Accuracy of an AI visual application for detecting 10-s grip and release test: preliminary results from 1143 participants			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP036
Ludwig, Steven	Cervical Facet Dislocation: Closed Reduction Tips and Tricks	5:02 PM	5:07 PM	Cervical Trauma Pt. II	Faculty	12/1/2021	5:00 PM	5:37 PM	
Ludwig, Steven	DEBATE - Multi-Level Cervical Myelopathy: Laminectomy and Fusion is the Preferred Approach	6:58 PM	7:09 PM	Degenerative Pt. II	Faculty	12/1/2021	6:47 PM	7:22 PM	
Ludwig, Steven				Welcome	Honored Speaker	12/2/2021	7:00 AM	7:10 AM	
Ludwig, Steven				Welcome	Honored Speaker	12/3/2021	7:00 AM	7:10 AM	
Ludwig, Steven				Welcome	Honored Speaker	12/4/2021	8:00 AM	8:10 AM	
Ludwig, Steven				Close of Meeting	Honored Speaker	12/4/2021	12:47 PM	12:55 PM	
Lynch, Conor	Risk Factors for MCID Drop-Off in Patients Undergoing Anterior Cervical Discectomy and Fusion	11:42 AM	11:47 AM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP076
Lynch, Conor	Do Patient Expectations Represent a More Important Clinical Difference? A Study of Surgical Outcomes in the Cervical Spine			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP037

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Maki, Satoshi	Machine learning approach in predicting clinically significant improvements after surgery in patients with cervical ossification of the posterior longitudinal ligament			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP038
Mehta, Ankit	Treatment of Spinal Cord Injury With Bone Marrow Mesenchymal Stem Cell Derived Exosomes	9:14 AM	9:16 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Mesfin, Addisu	DEBATE - Traumatic Cervical Facet Fractures without Dislocation: I put them in a collar	10:07 AM	10:16 AM	Symposia 5: Master Debate Series Pt. II	Faculty	12/4/2021	9:56 AM	10:56 AM	
Minamide, Akihito	Comparison of clinical results between minimally invasive cervical foraminotomy and anterior cervical decompression and fusion for cervical radiculopathy			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP039
Miura, Kousei	Surgical Apgar Score and Controlling Nutritional Status Score are significant predictors of major complications after cervical spine surgery	2:50 PM	2:55 PM	Session 7: Abstracts - Outcomes Pt. II	Presenter	12/3/2021	2:06 PM	3:28 PM	PGP058
Miura, Masataka	Oxygen regulated protein 150 (ORP150) suppresses the development of myelopathy in a rat model of chronic spinal cord compression			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP040

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Miura, Masataka	Automated detection of cervical ossification of the posterior longitudinal ligament in plain lateral radiographs of the cervical spine using a convolutional neural network			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP041
Miyamoto, Hiroshi	Dropped Head Syndrome	8:35 AM	8:45 AM	Live-Virtual Session I: CSRS Asia Pacific - Cervical Deformity, Uncommon but Challenging Cases	Video Presenter	11/29/2021	8:00 AM	9:00 AM	
Moghaddamjou, Ali	Early Surgical Decompression Enhances Motor Recovery in Traumatic Cervical ASIA A Spinal Cord Injury Patients: Analysis of Prospective, Multicentre Data in 420 Cases	11:22 AM	11:27 AM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP074
Mohan, Shruthi	Diabetes Mellitus does not Impact Achievement of a Minimum Clinically Important Difference following Anterior Cervical Discectomy and Fusion			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP042
Mohan, Shruthi	Influence of Preoperative Severity on Postoperative Improvement Among Patients with Myeloradiculopathy			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP043

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	Following Anterior Cervical Discectomy and Fusion								
Monsour, Meredith	Using Natural Language Processing to Predict Clinically Significant Improvement in mJOA Score 12 Months After Cervical Decompression			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP044
Moore, Timothy				Session 8 - Abstracts - Top Reviewed 'Sweet Sixteen' Pt. II	Moderator	12/4/2021	8:10 AM	8:56 AM	
Moriguchi, Yu	Fate of hydroxyapatite-based porous lamina spacers following expansive open-door cervical laminoplasty: A quantitative long-term study			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP045
Mroz, Thomas	Master Class Video: Posterior Foraminotomy for Cervical Radiculopathy	7:21 PM	7:29 PM	Degenerative Pt. I	Faculty	11/29/2021	7:00 PM	8:10 PM	
Mroz, Thomas				Deformity for Bread & Butter Cervical Spine Surgeons	ICL Moderator	11/29/2021	8:20 PM	9:30 PM	
Mroz, Thomas				Basic Principles of Cervical Deformity, Pearls and Pitfalls	ICL Moderator	12/1/2021	6:12 PM	6:47 PM	

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Mummaneni, Praveen				Symposia 3: Deformity Consideration for the Everyday Cervical Degenerative Conditions	Moderator	12/3/2021	8:30 AM	9:41 AM	
Mundis, Gregory	Lateral Mass Screw Accuracy: Effect of Surgeon Experience with Freehand Technique vs. a Facet-Based Drill Guide			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP046
Naghdi, Neda	Morphological changes of deep extensor neck muscles in relation to the maximum level of compression and canal compromise in patients with degenerative cervical myelopathy			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP047
Nagoshi, Narihito	Does diabetes affect the surgical outcomes in cases with cervical ossification of the posterior longitudinal ligament?	2:22 PM	2:27 PM	Session 7: Abstracts - Outcomes Pt. II	Presenter	12/3/2021	2:06 PM	3:28 PM	PGP055
Nakashima, Hiroaki	Comparison of Laminoplasty and Posterior Fusion Surgery for Cervical Ossification of the Posterior Longitudinal Ligament: Data from a Prospective Multicenter Research Organization regarding Ossificati	2:27 PM	2:32 PM	Session 7: Abstracts - Outcomes Pt. II	Presenter	12/3/2021	2:06 PM	3:28 PM	PGP056

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Niu, Shuo	Evaluating the Influence of Impaired Cervical Cord Blood Perfusion on Clinical Severity of Cervical Myelopathy Using Intravoxel Incoherent Motion MRI	9:10 AM	9:12 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Nolte, Michael	Radiographic Evaluation of the Cervical Neck Surgical Approach and Its Relationship with BMI and Operative Characteristics Following ACDF.	9:26 AM	9:28 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Nunley, Pierce	Lessons Learned from Past and Current CSRS-Funded Studies - 5-yr ASD Incidence After TDA Study	1:33 PM	1:38 PM	Symposia 2: Pearls of Wisdom for a Successful Research Study	Faculty	12/2/2021	1:05 PM	2:05 PM	
Oezel, Lisa	Comparison of MRI-based Vertebral Bone Quality (VBQ) Score with Bone Mineral Density Measured by Quantitative Computer Tomography (QCT) in Patients undergoing Cervical Spinal Surgery	4:18 PM	4:23 PM	Session 3: Abstracts - Deformity; Diagnostics and Imaging; Biologics and Bone Graft	Presenter	12/2/2021	3:40 PM	4:56 PM	PGP026
Olsson, Erik				Session 4: Abstracts - Epidemiology, Etiology, and Natural History; Basic Science	Moderator	12/3/2021	7:10 AM	8:30 AM	

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Padhye, Kedar	Surgical Treatment of Single level Cervical Radiculopathy: A Comparison of Anterior Cervical Decompression and Fusion (ACDF) vs. Cervical Disc Arthroplasty (CDA) vs. Posterior Cervical Foraminotomy (P	8:16 AM	8:21 AM	Session 8 - Abstracts - Top Reviewed 'Sweet Sixteen' Pt. II	Presenter	12/4/2021	8:10 AM	8:56 AM	PGP064
Park, Sehan	Fusion and Subsidence Rates of Vertebral Body Sliding Osteotomy: Comparison of 3 Reconstructive Techniques for Multilevel Cervical Myelopathy			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP048
Park, Sehan	Segmental Height Decrease Adversely Affects Foraminal Height and Segmental Lordosis, But Not Clinical Outcome After Anterior Cervical Discectomy and Fusion Using Allografts			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP049
Passias, Peter	Infection: Post-Surgical Infection of the Cervical Spine, Update and New Technologies	7:51 PM	8:00 PM	Tumor and Infection Pt. I	Faculty	11/30/2021	7:00 PM	8:12 PM	
Passias, Peter	Trends in 2 Year Outcomes of a Prospective Consecutively Enrolled Single-Center Adult Cervical Deformity Series: Optimal Realignment Correlates with Superior Outcomes	7:21 AM	7:26 AM	Session 1: Abstracts - Outcomes Pt. I	Presenter	12/2/2021	7:10 AM	8:24 AM	PGP003

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Passias, Peter	Which traditional functional outcome measures and their specific components are most affected by proper re-alignment and clinical improvement in Adult Cervical Deformity Surgery?		7:52 AM	Session 1: Abstracts - Outcomes Pt. I	Presenter	12/2/2021	7:10 AM	8:24 AM	PGP006
Passias, Peter	When Does the Construct Need to Extend to the Thoracic Spine in Patients Undergoing Correction for Cervical Deformity?	3:51 PM	3:56 PM	Session 3: Abstracts - Deformity; Diagnosis and Imaging; Biologics and Bone Graft	Presenter	12/2/2021	3:40 PM	4:56 PM	PGP023
Passias, Peter	Identifying T1 Slope Thresholds for Optimal Functional and Clinical Outcomes in Cervical Deformity Correction	4:01 PM	4:06 PM	Session 3: Abstracts - Deformity; Diagnosis and Imaging; Biologics and Bone Graft	Presenter	12/2/2021	3:40 PM	4:56 PM	PGP025
Passias, Peter	The Effect of Undercorrection on Distal Junctional Kyphosis in Adult Cervical Deformity Patients	11:38 AM	11:43 AM	Session 5: Abstracts - Biomechanics; Complications	Presenter	12/3/2021	10:50 AM	12:06 PM	PGP050
Passias, Peter	Highest Achievable Outcomes for Patients Undergoing Cervical Deformity Corrective Surgery by Frailty	2:32 PM	2:37 PM	Session 7: Abstracts - Outcomes Pt. II	Presenter	12/3/2021	2:06 PM	3:28 PM	PGP057

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Passias, Peter	Analysis of Clinical Deterioration Following Adult Cervical Deformity Realignment Surgery: Two Year Outcomes of a Consecutive, Prospectively Enrolled Database	3:05 PM	3:10 PM	Session 7: Abstracts - Outcomes Pt. II	Presenter	12/3/2021	2:06 PM	3:28 PM	PGP061
Passias, Peter	Improvements in Cost Effectiveness of Adult Cervical Deformity Corrective Surgery over Time: Analysis of a Prospective Adult Cervical Deformity Database			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP051
Passias, Peter	Diminishment of Distal Junctional Kyphosis Rates among Surgically Corrected Cervical Deformity Patients over Time			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP053
Passias, Peter	The Effect of Sagittal Alignment on Outcomes, Reoperation Rates, and Development of Distal Junctional Kyphosis in Adult Cervical Deformity Patients			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP054
Passias, Peter	The Effect of Thoracic Kyphosis on Distal Junctional Kyphosis in Adult Cervical Deformity Patients			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP004
Passias, Peter	Treatment of Severe Adult Cervical Deformities Classified by Radiographic			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP055

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	Criteria is Associated with Inherent Risk								
Passias, Peter	Influence of Staged vs Same Day Surgical Approach on Cervical Deformity Corrective Surgery Cost Effectiveness			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP052
Passias, Peter	Delineation of Alignment Goals for Adult Cervical Deformity Correction that are Associated with Achievement of both Optimal Clinical and Functional Outcomes			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP050
Passias, Peter	What is the Ideal Cervical Spine Realignment in Operative Cervical Deformity Patients When the Thoracolumbar Spine is Not Addressed?			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP003
Patel, Alpesh	Role and Timing of Surgery in Acute Central Cord Syndrome Patient with a Stable Spine	8:36 PM	8:46 PM	Cervical Trauma Pt. I	Faculty	11/30/2021	8:20 PM	9:30 PM	
Patel, Alpesh				Symposia 1: Digital Transformation During the Pandemic: How Did COVID-19 Change the Practice of	Moderator	12/2/2021	8:24 AM	9:24 AM	

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				Cervical Spine Surgery?					
Pinter, Zachariah	Paraspinal Sarcopenia Predicts Worse Patient Reported Outcomes Following Posterior Cervical Fusion	4:23 PM	4:28 PM	Session 3: Abstracts - Deformity; Diagnostcs and Imaging; Biologics and Bone Graft	Presenter	12/2/2021	3:40 PM	4:56 PM	PGP027
Pitzen, Tobias	Case Presentation I	8:05 AM	8:12 AM	Live-Virtual CSRS Affiliate Organization Session II: CSRS Europe - A Great Case Due to the Right Decision	Video Presenter	11/30/2021	8:00 AM	9:00 AM	
Prabhakar, Gautham	Survival Rates in Atlanto-occipital Dissociation: A Look at the Past 20 Years	11:57 AM	12:02 PM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP079
Pressciutti, Steven	Analysis of the Human Serum Proteome in Cervical Radiculopathy Patients to Predict Who Will Fail Conservative	9:04 AM	9:06 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	

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	Treatment and Require Surgery								
Preston, Gordon	Long Term Associations Between Current Smoking Status and Outcome After Elective Cervical Spine Surgery	7:52 AM	7:57 AM	Session 1: Abstracts - Outcomes Pt. I	Presenter	12/2/2021	7:10 AM	8:24 AM	PGP007
Protopsaltis, Themistocles	When is my Degenerative Case Really a Deformity? What Parameters Should I be Aware Of?	8:21 PM	8:31 PM	Deformity for Bread & Butter Cervical Spine Surgeons	Faculty	11/29/2021	8:20 PM	9:30 PM	
Protopsaltis, Themistocles				Deformity for Bread & Butter Cervical Spine Surgeons	ICL Moderator	11/29/2021	8:20 PM	9:30 PM	
Protopsaltis, Themistocles				Basic Principles of Cervical Deformity, Pearls and Pitfalls	ICL Moderator	12/1/2021	6:12 PM	6:47 PM	
Protopsaltis, Themistocles	Durability and Failure Mechanisms of Cervical Deformity Correction Surgery	3:56 PM	4:01 PM	Session 3: Abstracts - Deformity; Diagnostcs and Imaging; Biologics and Bone Graft	Presenter	12/2/2021	3:40 PM	4:56 PM	PGP024
Protopsaltis, Themistocles	Surgical and Radiographic Outcomes in Patients with High T1 and C2 Slopes	8:21 AM	8:26 AM	Session 8 - Abstracts - Top Reviewed 'Sweet Sixteen' Pt. II	Presenter	12/4/2021	8:10 AM	8:56 AM	PGP065

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Pugely, Andrew	A Multi-Disciplinary Approach to Reduce Chronic Opioid Use Prior to Elective Cervical Spine Surgery	9:16 AM	9:18 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Qureshi, Sheeraz	Using the Telemedicine Platform - How Telemedicine Improved My Ability to Care for Cervical Spine Patients	9:11 AM	9:17 AM	Symposia 1: Digital Transformation During the Pandemic: How Did COVID-19 Change the Practice of Cervical Spine Surgery?	Faculty	12/2/2021	8:24 AM	9:24 AM	
Rahman, Ra'Kerry				Session 1: Abstracts - Outcomes Pt. I	Moderator	12/2/2021	7:10 AM	8:24 AM	
Rajan, Prashant	Longer Operative Time Associated with Prolonged Length of Stay, Non-Home Discharge and Transfusion Requirement after Anterior Cervical Discectomy and Fusion: an Analysis of 24,593 Cases			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP056
Rajasekaran, Shanmuganathan	Post-infectious Deformity	8:05 AM	8:15 AM	Live-Virtual Session I: CSRS Asia Pacific - Cervical Deformity, Uncommon but Challenging Cases	Video Presenter	11/29/2021	8:00 AM	9:00 AM	

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Ray, Zachary	Choice of LIV and When to Cross the CT Junction	9:02 AM	9:12 AM	Symposia 3: Deformity Consideration for the Everyday Cervical Degenerative Conditions	Faculty	12/3/2021	8:30 AM	9:41 AM	
Redmond, Kristin	Tumor: Radiation Treatment Update on Cervical Metastasis	7:25 PM	7:34 PM	Tumor and Infection Pt. I	Faculty	11/30/2021	7:00 PM	8:12 PM	
Rhee, John	CSRS Welcome	8:00 AM	8:02 AM	Live-Virtual Session I: CSRS Asia Pacific - Cervical Deformity, Uncommon but Challenging Cases	Honored Speaker	11/29/2021	8:00 AM	9:00 AM	
Rhee, John	Surgical Decision Making for Single-Root Radiculopathy In the Setting of Multi-Level Spondylosis: Choosing Levels, Approaches, and Techniques	7:02 PM	7:14 PM	Degenerative Pt. I	Faculty	11/29/2021	7:00 PM	8:10 PM	
Rhee, John	CSRS Welcome	8:00 AM	8:02 AM	Live-Virtual CSRS Affiliate Organization Session II: CSRS Europe - A Great Case Due to the Right Decision	Honored Speaker	11/30/2021	8:00 AM	9:00 AM	

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Rhee, John	Introduction	2:05 PM	2:10 PM	Henry H. Bohlman Presidential Guest Lecture	Honored Speaker	12/2/2021	2:05 PM	3:10 PM	
Rhee, John	Patient with Myelopathy/Radiculopathy Doesn't Have Perfect Alignment - Do They Really Need a Cervical Deformity Correction?	8:32 AM	8:42 AM	Symposia 3: Deformity Consideration for the Everyday Cervical Degenerative Conditions	Faculty	12/3/2021	8:30 AM	9:41 AM	
Rhee, John	Presidential Address	10:20 AM	10:50 AM	Presidential Address	Honored Speaker	12/3/2021	10:11 AM	10:50 AM	
Rhee, John	Introduction	1:30 PM	1:31 PM	Session 6: Meeting Previews; Awards - Paper & E-Poster Awards Presentations, Lifetime Achievement Award	Moderator	12/3/2021	1:30 PM	2:06 PM	
Rhee, John	Lifetime Achievement Award - Introduction	1:51 PM	1:56 PM	Session 6: Meeting Previews; Awards - Paper & E-Poster Awards Presentations, Lifetime Achievement Award	Moderator	12/3/2021	1:30 PM	2:06 PM	

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Rhee, John				Session 6: Meeting Previews; Awards - Paper & E-Poster Awards Presentations, Lifetime Achievement Award	Moderator	12/3/2021	1:30 PM	2:06 PM	
Rhee, John	Passing of the Medallion	9:31 AM	9:36 AM	Presidential Farewell & Induction of New President	Honored Speaker	12/4/2021	9:31 AM	9:41 AM	
Riew, K. Daniel	DEBATE (Battle of CSRS Presidents) - Managing Subaxial Cervical Kyphosis: Anterior Osteotomies with A/P Approach is Best	6:20 PM	6:28 PM	Basic Principles of Cervical Deformity, Pearls and Pitfalls	Faculty	12/1/2021	6:12 PM	6:47 PM	
Riew, K. Daniel	DEBATE - 2-Level CDD with Myelopathy: ACDF	3:54 PM	4:04 PM	Symposia 4: Master Debate Series I	Faculty	12/3/2021	3:52 PM	5:00 PM	
Riley, Lee				Session 10: Abstracts - Motion Preservation; Trauma; Other	Moderator	12/4/2021	10:56 AM	12:47 PM	
Royse, Kathryn	No Difference in Reoperation Rates in Posterior Cervical Fusions Stopping at C7 versus T1/T2 for Adjacent Segment Disease (Operative ASD): A cohort of 875 Patients - Part 1	7:21 AM	7:26 AM	Session 4: Abstracts - Epidemiology, Etiology, and Natural History; Basic Science	Presenter	12/3/2021	7:10 AM	8:30 AM	PGP033

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Saifi, Comron	Racial and social determinants of health disparities in patient presentation for cervical spine surgery: census tract level disparities reveal greater preoperative morbidity and worse POD 90 patient reported outcomes	7:16 AM	7:27 AM	Session 4: Abstracts - Epidemiology, Etiology, and Natural History; Basic Science	Presenter	12/3/2021	7:10 AM	8:30 AM	PGP032
Saifi, Comron	The Impact of Social Determinants of Health (SDOH) on 30- and 90-Day Readmission Rates Following Spine Surgery	7:36 AM	7:41 AM	Session 4: Abstracts - Epidemiology, Etiology, and Natural History; Basic Science	Presenter	12/3/2021	7:10 AM	8:30 AM	PGP036
Saifi, Comron	Racial Disparities in Patients Undergoing Anterior Cervical Discectomy and Fusion: A Multi-Site Study	8:31 AM	8:36 AM	Session 8 - Abstracts - Top Reviewed 'Sweet Sixteen' Pt. II	Presenter	12/4/2021	8:10 AM	8:56 AM	PGP067
Saifi, Comron				Session 10: Abstracts - Motion Preservation; Trauma; Other	Moderator	12/4/2021	10:56 AM	12:47 PM	
Sardar, Zeeshan				Session 5: Abstracts - Biomechanics; Complications	Moderator	12/3/2021	10:50 AM	12:06 PM	

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Sasso, Rick	Global Perspectives - United States	8:25 AM	8:30 AM	Symposia 1: Digital Transformation During the Pandemic: How Did COVID-19 Change the Practice of Cervical Spine Surgery?	Faculty	12/2/2021	8:24 AM	9:24 AM	
Savage, Jason	DEBATE - Mildly Symptomatic Myelopathy: Operate	7:53 PM	8:01 PM	Degenerative Pt. I	Faculty	11/29/2021	7:00 PM	8:10 PM	
Savage, Jason	Importance of Global Alignment: Which Measurements are Key?	6:12 PM	6:20 PM	Basic Principles of Cervical Deformity, Pearls and Pitfalls	Faculty	12/1/2021	6:12 PM	6:47 PM	
Schroeder, Gregory	Using the Telemedicine Platform - How to Perform a Virtual Cervical Physical Examination	9:05 AM	9:11 AM	Symposia 1: Digital Transformation During the Pandemic: How Did COVID-19 Change the Practice of Cervical Spine Surgery?	Faculty	12/2/2021	8:24 AM	9:24 AM	
Schuermans, Valérie	Clinical adjacent segment pathology after anterior cervical decompression surgery for cervical degenerative disc disease: a single center			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP057

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	retrospective cohort study with long-term follow-up								
Sciubba, Daniel	Management of Recurrent Metastatic Cervical Tumors After Surgery/Radiation Therapy	5:37 PM	5:49 PM	Tumor and Infection Pt. II	Faculty	12/1/2021	5:37 PM	6:12 PM	
Sciubba, Daniel				Session 2: Abstracts - Top Reviewed 'Sweet Sixteen' Pt. I	Moderator	12/2/2021	9:54 AM	11:18 AM	
Sciubba, Daniel	Surgical approaches to tumors of the occipito-cervical, subaxial cervical, and cervicothoracic spine: An algorithm for standard versus extended anterior cervical access			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP058
Shaffrey, Chris				Symposia 5: Master Debate Series Pt. II	Moderator	12/4/2021	9:56 AM	10:56 AM	
Shah, Akash	Prediction of complications after anterior cervical spinal fusion: a machine learning-driven approach	7:57 AM	8:02 AM	Session 1: Abstracts - Outcomes Pt. I	Presenter	12/2/2021	7:10 AM	8:24 AM	PGP008
Shah, Akash	Development of a machine learning model for prediction of C5 palsy after instrumented cervical fusion			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP059

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Shah, Shalin	What are the Post-operative Consequences of Intraoperative Neuromonitoring Changes during Cervical Spine Surgery	4:28 PM	4:33 PM	Session 3: Abstracts - Deformity; Diagnosis and Imaging; Biologics and Bone Graft	Presenter	12/2/2021	3:40 PM	4:56 PM	PGP028
Shankar, Dhruv	A Comparison of Postoperative Opioid Use in Patients Undergoing Cervical Laminectomy with Instrumented Fusion versus Cervical Laminoplasty with Reconstruction			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP060
Song, Seong Hun	Modified Kappa-line correlates better with neurological outcomes than modified K-line after laminoplasty for cervical myelopathy caused by ossification of the posterior longitudinal ligament			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP005
Spiker, W. Ryan	DEBATE - Is Telemedicine Here to Stay? Yes, It's Awesome	8:47 AM	8:53 AM	Symposia 1: Digital Transformation During the Pandemic: How Did COVID-19 Change the Practice of Cervical Spine Surgery?	Faculty	12/2/2021	8:24 AM	9:24 AM	

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Steinmetz, Michael	Preoperative Optimization of the Cervical Deformity Patient	8:31 PM	8:41 PM	Deformity for Bread & Butter Cervical Spine Surgeons	Faculty	11/29/2021	8:20 PM	9:30 PM	
Suk, Kyung-Soo	Neuromuscular Deformity	8:15 AM	8:25 AM	Live-Virtual Session I: CSRS Asia Pacific - Cervical Deformity, Uncommon but Challenging Cases	Video Presenter	11/29/2021	8:00 AM	9:00 AM	
Sun, Yu	Introduction	8:02 AM	8:05 AM	Live-Virtual Session I: CSRS Asia Pacific - Cervical Deformity, Uncommon but Challenging Cases	Moderator	11/29/2021	8:00 AM	9:00 AM	
Sun, Yu	2022 Meeting Preview - CSRS Asia Pacific	1:41 PM	1:46 PM	Session 6: Meeting Previews; Awards - Paper & E-Poster Awards Presentations, Lifetime Achievement Award	Video Presenter	12/3/2021	1:30 PM	2:06 PM	

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Suzuki, Akinobu	Surgical outcome of cervical and thoracic extramedurally spinal tumor	12:22 PM	12:27 PM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP082
Swiatek, Peter	Social Media Posts pertaining to Anterior Cervical Discectomy and Fusion (ACDF) Surgery: A Cross-Sectional Analysis of Patient and Surgeon Perceptions	8:02 AM	8:07 AM	Session 1: Abstracts - Outcomes Pt. I	Presenter	12/2/2021	7:10 AM	8:24 AM	PGP009
Takahashi, Masahito	Impact of cervical alignment for prognosis of cervical spondylotic amyotrophy – Propensity score matching analysis			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP002
Tamai, Koji	The improvement of mental-related quality-of life after cervical surgery for the patients with cervical spondylotic myelopathy			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP062
Tamai, Koji	Heated tobacco products could impair bone union after cervical fusion surgery: in vivo and in vitro study			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP061
Tan, Lee	Comparison of Clinical and Radiographic Outcomes After C3 Laminoplasty versus C3 Laminectomy	8:07 AM	8:12 AM	Session 1: Abstracts - Outcomes Pt. I	Presenter	12/2/2021	7:10 AM	8:24 AM	PGP010
Tan, Lee	Biomechanical Analysis of 3-level ACDF Construct Using a Finite-element Cervical Spine Model	11:11 AM	11:16 AM	Session 5: Abstracts - Biomechanics; Complications	Presenter	12/3/2021	10:50 AM	12:06 PM	PGP046

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Tan, Lee	Comparison of Clinical and Radiographic Outcomes After Collar Use Following Cervical Laminoplasty			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP063
Tang, Justin	Natural Language Processing of Operative Note Dictations to Automatically Generate CPT Codes for Billing			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP064
Toci, Gregory	Impact of Smoking on Clinical Outcomes After Posterior Cervical Fusion			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP065
Tortolani, P. Justin				Session 5: Abstracts - Biomechanics; Complications	Moderator	12/3/2021	10:50 AM	12:06 PM	
Tortolani, P. Justin	Quantitative Histomorphological Characterization of Human Cervical Nerve Roots to Determine the Relationship with Postoperative C5 Palsy	9:18 AM	9:20 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Traynelis, Vincent	DEBATE - 3-Level CDD: ACDF	4:27 PM	4:37 PM	Symposia 4: Master Debate Series I	Faculty	12/3/2021	3:52 PM	5:00 PM	
Traynelis, Vincent	DEBATE - In an Awake, Alert, Cooperative Patient with a Cervical Dislocation: OR and Forget About the Closed Reduction	10:36 AM	10:45 AM	Symposia 5: Master Debate Series Pt. II	Faculty	12/4/2021	9:56 AM	10:56 AM	

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Vachata, Petr	Case Presentation II	8:12 AM	8:19 AM	Live-Virtual CSRS Affiliate Organization Session II: CSRS Europe - A Great Case Due to the Right Decision	Video Presenter	11/30/2021	8:00 AM	9:00 AM	
Wang, Jeffrey	Deformity Plus Myelopathy: Double Jeopardy	8:51 PM	9:01 PM	Deformity for Bread & Butter Cervical Spine Surgeons	Faculty	11/29/2021	8:20 PM	9:30 PM	
Wilent, W. Bryan	Impact of inhalational anesthetic agents on the baseline monitorability of upper extremity motor evoked potentials (MEPs) during cervical spine surgery: A review 16,559 procedures	4:33 PM	4:38 PM	Session 3: Abstracts - Deformity; Diagnositcs and Imaging; Biologics and Bone Graft	Presenter	12/2/2021	3:40 PM	4:56 PM	PGP029
Wilson, Jefferson				Cervical Trauma Pt. I	ICL Moderator	11/30/2021	8:20 PM	9:30 PM	
Wilson, Jefferson				Cervical Trauma Pt. II	ICL Moderator	12/1/2021	5:00 PM	5:37 PM	
Witiw, Christopher				Session 8 - Abstracts - Top Reviewed 'Sweet Sixteen' Pt. II	Moderator	12/4/2021	8:10 AM	8:56 AM	
Wolinsky, JP	Tumor: Surgical Options for Cervical Metastasis (Fusion or Not, Fixation Methods, Mis, Innovative	7:16 PM	7:25 PM	Tumor and Infection Pt. I	Faculty	11/30/2021	7:00 PM	8:12 PM	

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	Options Navigation, Robotics, etc.)								
Woods, Barrett				Session 3: Abstracts - Deformity; Diagnosis and Imaging; Biologics and Bone Graft	Moderator	12/2/2021	3:40 PM	4:56 PM	
Wright, Neill				Symposia 1: Digital Transformation During the Pandemic: How Did COVID-19 Change the Practice of Cervical Spine Surgery?	Moderator	12/2/2021	8:24 AM	9:24 AM	
Wu, Yongren	Morphological, Biochemical and Biomechanical Characterization of Human Cervical Endplate in Degenerated Disc	9:08 AM	9:10 AM	Session 9: CSRS Past Research Grant Presentations	Research Grant Presenter	12/4/2021	8:56 AM	9:32 AM	
Yee, Timothy	Assessing the Efficacy of the mJOA in Myelopathic Patients: A Cervical QOD Study			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP066
Yokota, Kazuya	Preclinical study of directly reprogrammed human neural progenitor cells for cervical spinal cord injury.			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP067

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Yoon, S. Tim				Session 1: Abstracts - Outcomes Pt. I	Moderator	12/2/2021	7:10 AM	8:24 AM	
Yu, Elizabeth				Session 3: Abstracts - Deformity; Diagnosis and Imaging; Biologics and Bone Graft	Moderator	12/2/2021	3:40 PM	4:56 PM	
Zapolsky, Ivan	High Clinical No-Show Correlates with Worse Patient Reported Outcomes Following Anterior Cervical Discectomy and Fusion			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP069
Zapolsky, Ivan	Effect of Autograft Utilization on Patient Reported Outcomes Following Anterior Cervical Discectomy and Fusion			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP068
Zavras, Athan	Preoperative Diagnosis of a Mental Health Disorder is Associated with Increased Postoperative Rates of Dysphagia after Anterior Cervical Spine Surgery	7:31 AM	7:36 AM	Session 1: Abstracts - Outcomes Pt. I	Presenter	12/2/2021	7:10 AM	8:24 AM	PGP005
Zavras, Athan	Computed Tomography Osteoabsorptiometry (CT- OAM) Evaluation of Subchondral Bone Mineral Density in Cervical Endplates and Uncovertebral Joints: Implications for	7:57 AM	8:02 AM	Session 4: Abstracts - Epidemiology, Etiology, and Natural History; Basic Science	Presenter	12/3/2021	7:10 AM	8:30 AM	PGP038

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	Subsidence and Clinical Practice								
Zavras, Athan	Failure in Cervical Total Disc Arthroplasty: Single Institution Experience, Systematic Review of the Literature, and Proposal of a Novel TDA Failure Classification System	11:43 AM	11:48 AM	Session 5: Abstracts - Biomechanics; Complications	Presenter	12/3/2021	10:50 AM	12:06 PM	PGP051
Zavras, Athan	Stand-Alone Cages versus Cage and Plate Constructs for Primary One- and Two-level Anterior Cervical Discectomy and Fusion: A Prospective Randomized Controlled Trial	8:36 AM	8:41 AM	Session 8 - Abstracts - Top Reviewed 'Sweet Sixteen' Pt. II	Presenter	12/4/2021	8:10 AM	8:56 AM	PGP068
Zavras, Athan	Range of Motion on Flexion and Extension at Long-Term Follow-Up After Cervical Total Disc Arthroplasty: A Systematic Review and Meta-Analysis	11:02 AM	11:07 AM	Session 10: Abstracts - Motion Preservation; Trauma; Other	Presenter	12/4/2021	10:56 AM	12:47 PM	PGP070
Zavras, Athan	A Longitudinal Assessment of Segmental Motion of the Cervical Spine Following Total Disc Arthroplasty: A Comparative Analysis of Devices			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP072

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Zavras, Athan	CT Osteoabsorbptiometry Assessment of Subchondral Bone Density Predicts Intervertebral Subsidence in a Human Cadaver Model			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP071
Zavras, Athan	The Use of Table Mounted Retraction Does Not Lead to Higher Incidence of Postoperative Dysphagia After Anterior Cervical Spine Surgery			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP070
Zhang, Andrew	Complications and Reoperation following Carpal Tunnel Release and Anterior Cervical Discectomy and Fusion in Patients with Double Crush Syndrome 			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP073
Zhang, Hanci	Cervical Myelopathy and Hip Fractures: Coincidence, Epidemiology, and Costs of Care	7:11 AM	7:16 AM	Session 4: Abstracts - Epidemiology, Etiology, and Natural History; Basic Science	Presenter	12/3/2021	7:10 AM	8:30 AM	PGP031
Zhou, Feifei	Congenital Cervical Deformity	8:25 AM	8:35 AM	Live-Virtual Session I: CSRS Asia Pacific - Cervical Deformity, Uncommon but Challenging Cases	Video Presenter	11/29/2021	8:00 AM	9:00 AM	

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Zuckerman, Scott	Is it better to stop at C2 or C3/4 in elective posterior cervical decompression and fusion?	7:26 AM	7:31 AM	Session 1: Abstracts - Outcomes Pt. I	Presenter	12/2/2021	7:10 AM	8:24 AM	PGP004
Zuckerman, Scott	Does grip strength improve after cervical spine surgery? A study of objective hand dynamometer readings			E-Poster	ePoster Presenter		12:00 AM	12:00 AM	EPP074