

40th ANNUAL MEETING
CERVICAL SPINE RESEARCH SOCIETY
EUROPE

CSRS Europe 25

May 15–17, 2025

Prague

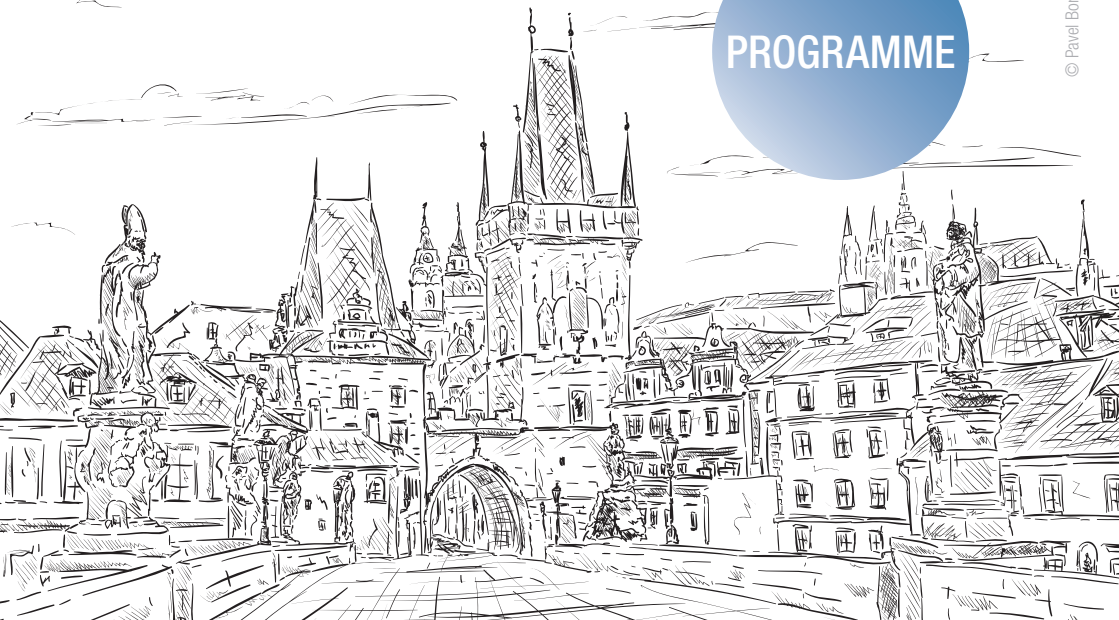
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CERVICAL SPINE RESEARCH SOCIETY



EUROPE

PROGRAMME



PROGRAMME OVERVIEW

Thursday, May 15			Friday, May 16	
Plenary (Bravo & Ceremony)	Breakout 1 (Aplaus)	Conference Foyer	Plenary (Bravo & Ceremony)	Conference Foyer
08:00–08:15			08:00–09:30	
Welcome p. 9			Lecture session 4 Cervical myelopathy	
08:15–09:30				p. 15
Lecture session 1 Mario Boni Grant Nominated Best Oral presentations				
p. 9				
09:45–10:40			10:00–11:45	
Lecture session 2 Degenerative disease 1			Lecture session 5 Cervical deformity	
p. 10				p. 16
11:15–12:00			11:45–12:05	
Debate/Round Table 1			CSRS Northern America p. 17	
p. 11			12:05–12:35	
12:00–12:15			Invited guest Lecture 3 p. 17	
CSRS Asia Pacific p. 11				
12:15–12:25				
CSRS-E video portal p. 11	12:25–13:25	12:25–13:00		12:35–13:00
	Industry supported session	Best poster section part I		Best poster section part II
	p. 30	p. 12		p. 18
13:30–14:30			13:35–14:20	
Lecture session 3 Degenerative disease 2			Debate/Round Table 3	
p. 13			p. 18	
15:00–15:30			14:20–15:40	
Invited guest lecture 1 p. 14			Lecture session 6 Trauma	
15:30–16:00				p. 19
Invited guest lecture 2 p. 14				
16:00–16:45			16:10–16:55	
Debate/Round Table 2			Debate/Round Table 4	
p. 14			p. 20	
16:50–17:00			16:55–18:10	
Award session p. 14			Lecture session 7	
17:00–17:30				p. 21
General Assembly p. 14				
from 19:30			18:10–18:20	
Social evening at the Brewery and Restaurant u Flekú			Final remarks p. 22	
				p. 34

Organisation and imprint	4
CSRS Europe committee members	5
Certification	6
Welcome note	8
Scientific programme	
Thursday, May 15	9
Friday, May 16	15
ePoster	23
Industry lunch symposium	29
Sponsors and exhibitors	32
Social programme	34
Index of speakers, chairs and abstract authors	36

ORGANISATION AND IMPRINT

Venue

Grandior Hotel Prague
Na Porici 42
11000 Prague/Czech Republic

Date

May 14–16, 2025

Conference website

www.csrs-europe-congress.com

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Dpt. of Neurosurgery, Faculty Hospital in Pilsen, Charles University in Prague/Czech Republic

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Ahmed Ibrahim (London/United Kingdom)
Anna MacDowall (Uppsala/Sweden)
Petr Vachata (Ústí nad Labem/Czech Republic)

Hosting society

Cervical Spine Research Society – Europe
www.csrs-europe.org

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CERTIFICATION

For certification you must provide proof of attendance. Therefore, please scan your badge at the certification station every day at the conference.

Certificates of attendance will be sent to you via e-mail within two weeks after the conference.

41st ANNUAL MEETING
CERVICAL SPINE RESEARCH SOCIETY
EUROPE

CSRS 26

MAY 27–29, 2026

London

www.csrs-europe-congress.com

CERVICAL SPINE RESEARCH SOCIETY



EUROPE

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THE
DATE





Dear friends, colleagues, and CSRS family:

It is my great pleasure to invite you to join us at the 40th CSRS-Europe Annual Meeting, which will take place from May 14–16, 2025, in Prague, Czech Republic.

The CSRS-E Congress in 2025 is planned to build on the success of past CSRS-E congresses, each of which attracted participants from many countries around the world. In addition, the upcoming Congress in Prague aims to bring together an international audience in cervical spine involving all multidisciplinary specialties to share the best clinical practices and research discoveries that will shape the future of the treatment of cervical spine pathologies and improve standards of care.

The management of complications of all types of cervical spine disorders will be the key focus of this Congress, and Prague is the perfect city where all roads connect. This is the spirit of the CSRS-E 2025 Congress and will act as an excellent platform to discuss the latest scientific findings from prognosis, diagnosis, evaluation through management and outcome of all types of cervical spine indications, from congenital to degenerative, trauma, oncological, inflammatory and deformities. Prognostic models utilizing artificial intelligence will be included.

The Congress program will feature lectures, debates, and panel discussions led by selected experts sharing their knowledge, outlining the most recent medical advances, surgical techniques, and addressing hot, controversial topics. More importantly, it will provide a unique opportunity for face-to-face networking and knowledge exchange. The advanced one-day cadaver course is open to everyone to learn tips and tricks from the masters.

Additionally, Prague is a welcoming city with a warm climate as well as a population. The most famous part of old Prague under UNESCO is situated only 15 minutes' walk from the congress venue, which is Grandior Hotel.

Dear friends, I welcome you to join us at CSRS-E 2025 in Prague, where the community of spine professionals will meet to advance the future of cervical spine disorders management. Your participation is not just welcomed but integral to shaping the future of our patients and moving us all a significant step further together. Follow your road leading to Prague in May 2025!

Yours Sincerely

Petr Vachata
(Local host)

- 08:00–08:15 **Welcome address**
 Plenary
 Petr Vachata (Ústí nad Labem/CZ), Carmen Vleggeert-Lankamp (Leiden/NL)
- 08:15–09:30 **Lecture session 1 – Mario Boni Grant Nominated Best Oral presentations**
 Plenary
 Moderators Anna MacDowall (Uppsala/SE), Ahmed Ibrahim (London/GB)
- 08:15
 0-01 Internet-based Neck-Specific Exercises Was Non Inferior Compared to the same Exercises at a Physiotherapy Clinic for Chronic Whiplash-associated Disorders: A 15-Month Follow-Up
Anneli Peolsson (Linköping/SE), Gunnel Peterson (Eskilstuna, Linköping/SE)
- 08:22
 0-03 The Sodium-Glutamate Antagonist Riluzole Enhances Recovery After Acute Spinal Cord Injury: Results from the RISCIS Randomized Controlled Trial Using a Global Statistical Analytic Technique
Michael Fehlings, Karlo Pedro, Mohammed Alvi (Toronto/CA)
 James Harrop (Philadelphia, PA/US), Bizhan Arabi (Baltimore, MD/US)
 Kevin Thorpe (Toronto/CA), Peng Huang (Baltimore, MD/US)
- 08:29
 0-04 Full Muscle-Sparing Cervical Vertebroplasty with Plate
 Kanji Sasaki (Hamamatsu/JP)
- 08:36 Discussion
- 08:49
 0-05 Integrating Neck Pain Scores Improves the mJOA for Predicting Quality of Life in Degenerative Cervical Myelopathy
Karlo Pedro, Mohammed Alvi, Michael Fehlings (Toronto/CA)
- 08:56
 0-06 Thoracic Inlet Angle as a Predictor of Recovery in Cervical Spine Surgery – A Cluster Analysis of Demographic Interactions on Radiographic and Functional Outcomes
Nathan McGowan, Eric Truumees, Rory Mayer, Qais Zai, John Stokes
 Matthew Geck, Sara Sheikh (Austin, TX/US)
- 09:03
 0-07 A Novel Fusionless Nuchal Ligament Reconstruction & Stabilization Surgery for Patients with Dropped Head Syndrome
 Kenji Endo, Hirotsuke Nishimura, Yasunobu Sawaji, Takato Aihara
 Hidekazu Suzuki, Taro Uehara, Kengo Yamamoto (Tokyo/JP)
- 09:10 Discussion
- 09:30–09:45 **Break**

- 09:45–10:40 Lecture session 2 – Degenerative disease 1
Plenary
Moderators Cedric Barrey (Lyon/FR), Michael Fehlings (Toronto/CA)
- 09:45
0-08 Comparative Radiological Outcomes of Stand-Alone Cage versus Cage and Plate in Anterior Cervical Discectomy and Fusion (ACDF): A Retrospective Analysis
Amgad Elshoeibi, Isam Sami Moghamis (Doha/QA)
Abduljabbar Alhammoud (Tucson, AZ/US), Abedallah Abudalou, Jawad Derbas
Salahuddeen Abdelsalam, Abdulmoeen Baco (Doha/QA)
- 09:51
0-09 Correlation between Fusion and Clinical Outcomes after Anterior Cervical Discectomy at 1-, 2- and 5-Year Follow-Up
Floor de Vries (Leiden/NL, Boston, MA/US)
Ignacio Mesina-Estarrón (Boston, MA/US)
Carmen Vleggeert-Lankamp (Leiden/NL, Boston, MA/US)
- 09:57
0-10 Anterior Cervical Discectomy and Fusion surgery: Age with Plate Fixation or Cage only – Analysis of a Multicenter Dataset.
Lovisa Gerdhem, Pavlos Vlachogiannis, Paul Gerdhem
Anna MacDowall (Uppsala/SE)
- 10:03 Discussion
- 10:13
0-11 Multifidus Cervicis Originates from the C5 and C6 Lateral Mass: Radiological Analysis Using Sagittal MRI
Kazuya Kitamura, Susumu Tominaga, Daiki Kakegami, Kenta Suzuki, Shin Obara
Hiroto Aoi, Haruo Sasaki, Keita Kajikawa, Yasushi Kobayashi
Susumu Matsukuma, Keisuke Horiuchi (Saitama/JP)
- 10:19
0-12 Predisposing Factors for Dysphagia after Anterior Cervical Discectomy and Fusion (ACDF): A Retrospective Review of 461 Patients
Cagatay Ozturk, Huseyin Bahadir Gokcen, Mercan Sarier, Gail Gasimov
Mursel Debre (Istanbul/TR)
- 10:25 Discussion
- 10:40–11:15 Coffee break and visit of the industrial exhibition

11:15–12:00 Debate/Round Table 1 – Complications in treatment of degenerative cervical disease

Plenary

Moderator Carmen Vleggeert-Lankamp (Leiden/NL)

Philippe Bancel (Paris/FR), Ralph de Boer (Leiden/NL)
Zoher Ghogawala (Burlington/US)

12:00–12:15 Presidential lecture by President of CSRS Asia Pacific

Plenary

12:00 Maneuver to New AI Era of Cervical Spine Research
Hongxing Shen (Shanghai/CN)

12:15–12:20 Preview Annual Meeting of CSRS-AP 2026

Plenary

12:20–12:25 Presentation of CSRS-E video portal

Plenary

Moderator Cedric Barrey (Lyon/FR)

- 12:25–13:00 **Best poster section part I**
 Dialog
 Moderators Ahmed Ibrahim (London/GB), Anna MacDowall (Uppsala/SE)
 Petr Vachata (Ústí nad Labem/CZ)
- 12:25
BP-01 A Machine Learning Model for Predicting Surgical Intervention in Mild Degenerative Cervical Myelopathy
 Sung Bae Park (Seoul/KR)
- 12:28
BP-02 A Prospective, Comparative Study of Anterior Cervical Discectomy and Fusion (ACDF), Cervical Disc Arthroplasty (CDA) and Hybrid Cervical Surgery (HCS) in the Treatment of Cervical Disc Disease (CDD)
Thomas Figueiredo (Prague/CZ), Nicandro Figueiredo (Prague/CZ, Dubai/AE)
- 12:31
BP-03 Postoperative Delirium after Cervical Spine Surgery in Elderly Patients
 Akira Sakaguchi, Yasunari Tatara, Takanori Niimura, Hideo Mitsui, Hiroto Kouno
 Hisanori Mihara (Yokohama/JP)
- 12:34
BP-04 Impact of T1 Slope-Cervical Lordosis Discrepancy on Sagittal Vertical Axis and Patient-Reported Outcomes Following Posterior Cervical Fusion: A Multi-Center Retrospective Analysis
 Nathan McGowan, Eric Truumees, Matthew Geck, John Stokes, Vik Kohli
 Morgan Laviolette, Rory Mayer, Sara Sheikh (Austin, TX/US)
- 12:37
BP-05 Deep Learning Model for Automatic Diagnosis of CVJ Abnormalities Using X-Ray Images
Cheng Zhang, Xinyi Zhong, Shanshan Liu, Yinglun Tian, Shenglin Wang
 Jialin Shi, Weishi Li, Nanfang Xu (Beijing/CN)
- 12:40
BP-06 Factors Related to 1-Year Outcome of Health-Related Quality of Life after Neck-Specific Exercise Programme for Individuals with Whiplash-Associated Disorders
Anneli Peolsson, Stefan Ljunggren (Linköping/SE)
 Gunnel Peterson (Eskilstuna, Linköping/SE)
- 12:43 Discussion
- 12:25–13:25 **Lunch break and industry-supported session (see page 30)**

- 13:30–14:30 **Lecture session 3 – Degenerative disease 2**
 Plenary
 Moderators Philippe Bancel (Paris/FR), Andreu Combalia (Barcelona/ES)
- 13:30
 O-13 Clinical Trajectory and Outcomes with Surgical Intervention for Traumatic Central Cord Syndrome: Impact of Mechanism of Injury
 Karlo Pedro, Mohammed Alvi, Michael Fehlings (Toronto/CA)
- 13:36
 O-14 Impact of Cervical Disc Herniation Size on Clinical Outcomes in Cervical Radiculopathy after Surgical or Conservative Treatment
Azra Gül (Leiden/NL, Boston, MA/US), Xiaoyu Yang (Leiden/NL)
 Caroline Goedmakers (Leiden/NL, Boston, MA/US)
 Carmen Vleggeert-Lankamp (Leiden/NL, Boston, MA/US, Haarlem/Hoofddorp/NL)
- 13:42
 O-15 Anterior Bone Loss after Two-Level Cervical Disc Arthroplasty with Artificial Discs
Hsi-kai Tsou, Chia-Ning Chang, Tse-Yu Chen (Taichung/TW)
- 13:48 Discussion
- 13:59
 O-16 Speed and Quality of Interbody Fusion in Porous Bioceramic Al2O3 and Polyetheretherketone Cages for Anterior Cervical Discectomy and Fusion – A Comparative Study
 Roman Kostyšyn (Hradec Králové/CZ)
- 14:05
 O-17 Zero-P Cage versus Stand-Alone Cage for ACDF in Terms of Sagittal Alignment Reconstruction for Multiple Levels Degenerative Cervical Diseases
Hamdan Abdelrahman, Emad Sadat, Ahmed Shawky, Drazan Prsa
 Ali Ezzati (Erfurt/DE)
- 14:11
 O-18 The Effect of Anterior Cervical Discectomy and Fusion on Cervical Lordosis in Expandable versus Non-Expandable Cages
Ardalan Zolnourian, Hashim Vakil, Kieran Kavi, Aung Oo, Tushar Mann
 Rebecca Suckling, Mohammad Baraka, Ali Nader-Sepahi (Southampton/GB)
- 14:17
 O-19 Anterior Cervical Approach with Longitudinal Awareness of the Cervicothoracic Spinal Micro-Anatomy of Membranes and Layers – Moving Away from Horizontal, Cross-Sectional Thinking
Takashi Moriwaki, Sho Fujiwara, Koichi Iwatsuki (Osaka/JP)
- 14:23 Discussion
- 14:30–15:00 **Coffee break and visit of the industrial exhibition**

- 15:00–15:30 **Invited guest lecture 1**
Plenary
- 15:00 It's "Royal Highness", the Screw in the C2 Vertebra
Petr. Suchomel (Liberec/CZ)
- 15:30–16:00 **Invited guest lecture 2**
Plenary
- 15:30 Complication Avoidance in 3CO of CT Junction: Lessons Learned in 150 Cases and Coming Role of Big Data
Christopher P. Ames (San Francisco, CA/US)
- 16:00–16:45 **Debate/Round Table 2 – Complications in treatment of cervical deformity**
Plenary
Moderators Heiko Koller (Bad Abbach/DE), Christopher P. Ames (San Francisco, CA/US)
- Complications in treatment of cervical deformity
Heiko Koller (Bad Abbach/DE), Takachika Shimizu (Takasaki/JP)
Deszö Jeszenszky (Zuerich/CH)
- 16:45–16:50 **Preview Annual Meeting – CSRS 2026 Europe**
Plenary
Ahmed Ibrahim (London/GB)
- 16:50–17:00 **Award session: Boni award and the best research grant**
Plenary
Moderators Anna MacDowall (Uppsala/SE), Carmen Vleggeert-Lankamp (Leiden/NL)
Petr Vachata (Ústí nad Labem/CZ)
- 17:00–17:30 **CSRS Europe General Assembly**
Plenary
Carmen Vleggeert-Lankamp (Leiden/NL)
- From 19:30 **Social evening (see page 34)**

- 08:00–09:30 **Lecture session 4 – Cervical myelopathy**
 Plenary
 Moderators Carmen Vleggeert-Lankamp (Leiden/NL), Federico De Iure (Bologna/IT)
- 08:00
 0-20 Anterior Surgery Provides Good Surgical Outcome for K-Line (-) and/or Massive Ossification of Posterior Ligament (Occupying Ratio > 50%) in Cervical Spine?
Yastsugu Yukawa, Yuh Watanabe, Fumihiko Kato (Nagoya/Jp)
- 08:06
 0-21 Cocktail Therapy for Postoperative Cervical Pain after Cervical Laminoplasty
Go Yoshida, Tomohiko Hasegawa, Yu Yamato, Tomohiro Banno, Hideyuki Arima
 Shin Oe, Tomohiro Yamada, Yusuke Murakami
 Yukihiro Matsuyama (Hamamatsu/Jp)
- 08:12
 0-22 Postoperative Fusion Status in Bone Morphology after Cervical Laminoplasty Using the Spinous Process as Spacers
Yuh Watanabe, Fumihiko Kato, Yastsugu Yukawa (Nagoya/Jp)
- 08:18 Discussion
- 08:29
 0-23 Assessing Surgical Outcomes in Cervical Degenerative Disease: The Role of Intraoperative Neurophysiological Monitoring
 Delia Cannizzaro, Lucia Politini, Stefano Peron, Angelo Rusconi
 Roberto Stefani (Legnano/IT)
- 08:35
 0-24 Evoked Potentials as a Potential Biomarker to Quantify the Effectiveness of Surgery in Degenerative Cervical Myelopathy
Paloma Bas, Jorge Campos, Susana Soler, Vicente Belloch, Jose Luis Bas
 Claudia Campos, Silvia Perez, Miquel Bovea, Jorge Mario Morales, Pedro Rubio
 Teresa Bas (Valencia/ES)
- 08:41 Discussion
- 08:52
 0-25 Uncertainty-based Unsupervised Anomaly Detection (U²AD) for Spinal Cord Lesion Detection: a Multicentre Diagnostic Study
Hongxing Shen, Xiuyuan Chen, Qi Zhang, Kun Wang, Ziyi He, Lianming Wu
 Jianqi Sun (Shanghai/CN)
- 08:58
 0-26 A Single Centre Pragmatic Study of Clinico-Radiological Outcomes Using Expandable (EC) or Non-Expandable (NEC) Cervical Corpectomy Cages
Siddhant Kapoor (Birmingham/GB), Md Abrar Hassan (Leeds/GB)
 Mostafa Elmaghraby, Petr Rehousek, Rajesh Botchu, Shahnawaz Haleem
 Faizul Hassan (Birmingham/GB)

- 09:04
O-27 A Decisional Algorithm for the Surgical Treatment of Kyphotic Degenerative Cervical Myelopathy
Marco Ajello, Nicola Marengo, Stefano Colonna, Ayoub Saaid, Filippo Lacatena
Ludovico Comite, Fabio Cofano, Diego Garbossa (Torino/IT)
Alexander Vaccaro (Philadelphia, PA/US)
- 09:10 Discussion
- 09:30–10:00 Coffee break and visit of the industrial exhibition
- 10:00–11:45 Lecture session 5 – Cervical deformity
Plenary
Moderators Heiko Koller (Bad Abbach/DE), Jan Štulík (Prague/CZ)
- 10:00
O-28 Association Between Modified Frailty Index-11 and Cervical Malalignment in a Community-based Cohort
Shin Oe, Yu Yamato, Koichiro Ide, Tomohiko Hasegawa, Go Yoshida
Tomohiro Banno, Hideyuki Arima, Tomohiro Yamada, Kenta Kurosu
Yusuke Murakami, Yukihiro Matsuyama (Hamamatsu/JP)
- 10:06
O-29 Deep Learning-based Prediction of Rheumatoid Arthritis-associated Deformity on MRI
Anna Lebouille-Veldman (Leiden/NL, Boston, MA/US), Alexander Yearley
Timothy Smith, Aakanksha Rana (Boston, MA/US)
Carmen Vleggeert-Lankamp (Leiden/NL)
- 10:12
O-30 The Impact of Cervico-thoracic Deformity Correction Manoeuvres on the Tension of Brachial Plexus Nerve Roots
Miha Vodičar, Klemen Bošnjak, Lovro Suhodolčan, Jure Leban
Armand Škapin (Ljubljana/SI)
- 10:18
O-31 Correction of Congenital Cervical Scoliosis; Surgical Planning, Technique, and Clinical Results
Takachika Shimizu (Takasaki/JP), Hiroataka Chikuda (Maebashi/JP)
Masatake Ino, Eiji Takazawa (Takasaki/JP)
- 10:24 Discussion
- 10:35
O-32 Radiological Features of Dropped Head Syndrome
Hiroshi Miyamoto, Yoshiki Terashima, Takuya Tamaoka (Kobe/JP)

- 10:41
0-33 Surgical Strategies for Dropped Head Syndrome: Outcomes and Future Directions
Takaoki Kimura, Daichi Kawamura, Nahoko Kikuchi
Takeshi Umebayashi (Tokyo/JP)
- 10:47
0-34 A Suggestion of Necessary Correction Angle (NeCA) and Surgical Algorithm
Enhancing Ideal Alignment for Cervical Spinal Deformity
Park Jin Hoon, Jang Sun woo (Seoul/KR)
- 10:53 Discussion
- 11:10
0-35 Radiological Features of Cervical Kyphoscoliosis
Yoshiki Terashima, Hiroshi Miyamoto, Takuya Tamaoka
Aritetsu Kanemura (Kobe/JP)
- 11:16
0-36 The C2-Tilt as a Predictor for Successful Correction of Congenital
Cervical/Cervicothoracic Scoliosis
Peter Florian Richter, Tobias Pitzen (Karlsbad/DE), Christian Liebsch
Hans-Joachim Wilke (Ulm/DE), Michael Ruf (Karlsbad/DE)
- 11:22
0-38 Application of a Three-dimensional Spatial Parameter-based Evaluation System
for Assessing Reduction Difficulty in Posterior Atlantoaxial Surgery
Cheng Zhang, Shanshan Liu, Yinglun Tian, Junhe Wang, Xiyao Yang
Shenglin Wang, Nanfang Xu (Beijing/CN)
- 11:28 Discussion
- 11:45–12:00
Plenary Presidential lecture by President of CSRS Northern America
Christopher I. Shaffrey (Durham, NC/US)
- 12:00–12:05
Plenary Preview Annual Meeting of CSRS NA 2026
Christopher I. Shaffrey (Durham, NC/US)
- 12:05–12:35
Plenary Invited guest Lecture 3
- 12:05 Perspectives on Artificial Intelligence and Quantum Computing
Oto Sládek (Pardubice/CZ)

- 12:35–13:00 **Best poster section part II**
Dialog
Moderators Ahmed Ibrahim (London/GB), Anna MacDowall (Uppsala/SE)
Petr Vachata (Ústí nad Labem/CZ)
- 12:35 **BP-08** Cervical Muscle Adaptations and Spinal Alignment Changes Under Helmeted Conditions from Upright MRIs
Ali Warraich, Mahmudur Rahman, Aditya Vedantam
Narayan Yoganandan (Milwaukee, WI/US)
- 12:38 **BP-10** Prone Position Cervical X-ray as a Novel Radiographical Diagnosis for Dropped Head Syndrome
Kenji Endo, Hirosuke Nishimura, Yasunobu Sawaji, Takato Aihara
Hidekazu Suzuki, Taro Uehara, Kengo Yamamoto (Tokyo/JP)
- 12:41 **BP-11** Pathology-guided AI System for Accurate Segmentation and Diagnosis of Degenerative Cervical Myelopathy
Xiuyuan Chen, Qi Zhang, Kun Wang, Lianming Wu, Jianqi Sun
Hongxing Shen (Shanghai/CN)
- 12:43 **BP12** Dysraphic Pathologies of the Cervical Spine in Adults
Jörg Klekamp (Bad Abbach/DE)
- 12:47 Discussion
- 12:35–13:35 **Lunch break and visit of the industrial exhibition**
- 13:35–14:20 **Debate/Round Table 3 – Complications in cervical spine tumor treatment**
Plenary
Moderator Óscar Alves (Porto/PT)

Jan Štulík (Prague/CZ), Óscar Alves (Porto/PT), Cédric Barrey (Lyon/FR)

14:20–15:40 Lecture session 6 – Trauma

Plenary

Moderators Michael Mayer (Salzburg/AT), Zdeněk Klízl (Prague/CZ)

14:20 Surgical vs. Non-Surgical Management of Displaced Type-II Odontoid Fractures
0-39 in the Elderly: A Randomized Controlled TrialAman Singh, Anna MacDowall, Katrin Ivars (Uppsala/SE), Yohan Robinson
Anna-Lena Robinson (Göteborg/SE), Claes Olerud, Paul Gerdhem (Uppsala/SE)14:26 Early versus Delayed Surgical Decompression in Acute Traumatic Spinal Cord
0-40 Injury: Does it Impact the Quality of Life?Patrick Romijn, Paul Kussige, Miranda van Hooff (Nijmegen/NL)
Nathan Evaniew (Calgary/CA), Henk van de Meent, Joost van Middendorp
Martin Pouw, Allard Hosman (Nijmegen/NL)14:32 Factors Influencing the Survival of Patients with C2 Fractures in the Elderly,
0-41 according to the Treatment: Results of a Multicenter StudyJaume Mas-Atance, Pau Solé Florensa (Lleida/ES)
Neus Anglada Torres (Sabadell/ES), Moises Suárez Pérez, Alex Grau Blanes
Ivet Parés Alfonso (Barcelona/ES), Rosa Abad Satorres (Sabadell/ES)
Jaume Peroy Garcia (Lleida/ES), Iago Garreta Catala (Barcelona/ES)
Juan Bernardo Hernandez Umaña (Lleida/ES)
Raul Pellejero Garcia (Sabadell/ES), Luis Gonzalez Cañas (Barcelona/ES)
Ramon Jové Talavera (Lleida/ES)14:38 Delayed Diagnosis of Spinal Cord Injury in the Elderly and Its Impact on
0-42 Treatment Strategies – Insights from Japan Multicenter StudyTomohiro Yamada, Tomohiko Hasegawa, Yu Yamato
Yukihiro Matsuyama (Hamamatsu/JP), Noriaki Yokokawa
Satoshi Kato (Kanazawa/JP), Toru Funayama (Tukuba/JP), Hiroaki Nakashima
Naoki Segi (Nagoya/JP), Kota Watanabe (Tokyo/JP), Takao Furuya (Chiba/JP)
Gen Inoue (Kanagawa/JP), Takashi Kaito (Osaka/JP)14:44 Risk of BCVI in Polytraumatized Patients with Cervical Spine Injuries
0-43Lasse Kristensen, Tue Helme Kildegaard, Ole Brink, Kristian Høy (Aarhus/DK)

14:50 Discussion

- 15:00
O-44 Comparison of Biomechanics of Atlantoaxial and Total Cervical Spine Rotation After Atlantoaxial Fusion and Anterior Odontoid Screw Fixation – Observation Study of 30 Patients
Jan Lodin, Martin Sameš, Jan Terč, Filip Cihlář
Petr Vachata (Ústí nad Labem/CZ)
- 15:06
O-45 Cement-Augmented Direct Anterior Screw Osteosynthesis of the Odontoid Fracture in Elderly Patients
Petr Nesnídal (České Budějovice, Prague/CZ), Ondřej Teplý, David Měšťan
Jiří Fiedler (České Budějovice/CZ)
- 15:12
O-46 Revisiting the Treatment Algorithm for Atlantoaxial Dislocation after 10 Years: A Multi-Center Study with mid-to-long-term Follow-Up
Nanfang Xu, Yinglun Tian (Beijing/CN), Haoliang Zhao (Taiyuan/CN)
Hongling Chu (Beijing/CN), Fangcai Li (Hangzhou/CN)
Bing Wang (Kunming/CN), Peng Liu (Chongqing/CN), Fei Yin (Changchun/CN)
Lei Li (Shenyang/CN), Linfeng Wang (Shijiazhuang/CN)
Yannan Zhang (Taiyuan/CN), Linwei Chen (Hangzhou/CN)
Lingqiang Chen (Kunming/CN), Jun Zhu (Chongqing/CN)
Zhisen Tian (Changchun/CN), Cheng Li, Feng Wang (Shenyang/CN), Shilin Xue
Cheng Zhang, Weishi Li, Shenglin Wang (Beijing/CN)
- 15:18
O-47 Risk Factors of Fracture Instability and Non-union of Type II/III Odontoid Fracture
Jong-Hyeok Park, Sung Han Oh (Seongnam-si/KR)
Il Sup KimJae Taek Hong (Seoul/KR)
- 15:24
O-48 The long-term Clinical Outcomes of Magerl Technique Combined with Single Lamina Clamp Internal Fixation in treatment of Reducible Atlantoaxial Dislocation
Fuxin Wei, Yanrun Li (Shenzhen/CN), Shaoyu Liu (Guangzhou/CN)
- 15:30 Discussion
- 15:40–16:10 Coffee break and visit of the industrial exhibition
- 16:10–16:55 Debate/Round Table 4 – Complications in treatment of cervical spine trauma
Plenary
Moderator Federico De Iure (Bologna/IT)
Zdeněk Klézl (Prague/CZ), Gregor Schmeiser (Hamburg/DE)
Giorgio Lofrese (Cesena/IT)

16:55–18:10 Lecture session 7

Plenary

Moderators Óscar Alves (Porto/PT), Petr Vachata (Ústí nad Labem/CZ)

16:55 En Bloc Resection of Cervical Spine Tumors with Vertebral Artery Compromise
 0-49 Rosa Egea-Gámez, Alfonso González-Menocal, Maria Galán-Olleros
 Jaime García-Fernandez (Madrid/ES), Ana Maria Morales-Codina
 Antonio Martin-Benlloch (Valencia/ES), Rafael González-Díaz (Madrid/ES)

17:01 Intraoperative Ultrasound in Spine Surgery: Application in 50 Cases of Intradural
 0-50 Tumors, Infectious, Traumatic and Degenerative Pathologies
Angelo Rusconi, Stefano Peron, Roberto Stefini (Legnano/IT)

17:07 Accuracy of Cervical Pedicle Screw Placement using Patient-specific Template
 0-51 Guide System and Risk Factor Analysis for Screw Perforation: CT- based
 Evaluation of 437 Screws
 Akira Fukushima, Itaru Oda, Hiroyuki Hasebe, Hirohito Takeuchi, Shigeki Oshima
 Ryo Fujita (Sapporo/JP), Hiroki Tanaka (Fukuoka/JP)
 Masanori Fujiya (Sapporo/JP)

17:13 Accuracy of Navigated High-speed Drill Assisted Cervical and upper Thoracic
 0-52 Pedicle Screw Placement – A Single Center Experience with 1112 Pedicle Screws
Stefan Aspalter, Wolfgang Senker, Katja Höllmüller, Armin Davachi (Linz/AT)

17:19 Cervical Pedicle Screw Placement with Patient-specific 3D-printed Guides:
 0-53 Accuracy and Safety in a Clinical Experience
Nicola Marengo, Marco Ajello, Fabio Cofano, Stefano Colonna
 Diego Garbossa (Torino/IT)

17:25 Discussion

17:36 Clinical and Radiological Outcomes Following Occipito-Cervical and C1/2 Fusion
 0-54 Hashim Vakil, Ardalan Zolnourian, Kieran Kavi, Susruta Manivannan
 Rebecca Suckling, Mohammad Baraka, Madeleine Sampson, Emad Shenouda
 Michael Thomas (Southampton/GB)

17:42 Cervical Percutaneous Nucleotomy and Decompression (PECD)
 0-55 Ahmed Baraka (Munich/DE)

- 17:48
0-56 Full-Endoscopic Posterior Decompression for Cervical Stenosis: A New Frontier in Minimally Invasive Spine Surgery
Raed Abohussein (Gütersloh/DE)
Ahmed Ramadan Abdelfattah Saber (Fayoum/EG)
- 17:54
0-57 Independent Predictive Risk Factors for Cervical Spondylodiscitis of Mortality: A Retrospective Study of Single Institution
Jiun Huan Liao, Yulun Wu (Kaohsiung/TW)
- 18:00 Discussion
- 18:10–18:15 Award session Best poster
Plenary
Moderators Ahmed Ibrahim (London/GB), Petr Vachata (Ústí nad Labem/CZ)
- 18:15–18:20 Final remarks
Plenary
Petr Vachata (Ústí nad Labem/CZ)

- P01 Decoding the Impact of Thoracic Flexibility on Cervical Alignment: Advanced Predictive Modelling of Disability Outcomes in Posterior Cervical Fusion
Devender Singh, Matthew Geck, Morgan Laviolette, Rory Mayer, Vik Kohli, John Stokes, Eric Truumees, Sara Sheikh (Suite 200 Austin, TX/US)
- P02 Impact of T1 Pelvic Angle Improvement on Cervical Lordosis: A Retrospective Analysis of Postoperative Outcomes in Patients Undergoing Deformity Correction
Devender Singh, Matthew Geck, Vik Kohli, Morgan Laviolette, Rory Mayer, John Stokes, Eric Truumees, Sara Sheikh (Suite 200 Austin, TX/US)
- P03 Effect of Thoracic Inlet Angle on Cervicothoracic Parameters and Patient Reported Outcomes in Posterior Multi-Cervicothoracic Fusion
Devender Singh, Eric Truumees, Matthew Geck, Vik Kohli, Qais Zai, Rory Mayer, Morgan Laviolette, John Stokes, Sara Sheikh (Suite 200 Austin, TX/US)
- P04 Impact of T1 Slope-Cervical Lordosis Discrepancy on Sagittal Vertical Axis and Patient-Reported Outcomes Following Posterior Cervical Fusion: A Multi-Center Retrospective Analysis
Devender Singh, Eric Truumees, Qais Zai, John Stokes, Rory Mayer, Morgan Laviolette, Vik Kohli, Matthew Geck, Sara Sheikh (Austin, TX/US)
- P05 The Impact of Neck Pain on Functional and Quality of Life Outcomes in Cervical Myelopathy
Karlo Pedro, Mohammed Alvi, Michael Fehlings (Toronto/CA)
- P06 The Influence of Fracture Status in Determining the Effectiveness of Surgical Intervention in Central Cord Syndrome
Karlo Pedro, Michael Fehlings, Mohammed Alvi (Toronto/CA)
- P07 Biomechanical Assessment of Spinal Alignment: Evaluating the Interplay between Pelvic Incidence, T1 Pelvic Angle, and C2 Plumbline in 27 Models
Devender Singh, Matthew Geck, Vik Kohli, Rory Mayer, John Stokes, Eric Truumees, Sara Sheikh (Austin, TX/US)
- P08 Dysphagia & Smoking Relation After Anterior Cervical Discectomy and Fusion Surgery
Cagatay Ozturk, Huseyin Bahadir Gokcen, Gail Gasimov, Mercan Sarier, Mursel Debre (Istanbul/TR)
- P09 Longitudinal Changes in Contrast-enhanced MRI Findings of Dropped Head Syndrome
Taro Uehara, Kenji Endo, Hirosuke Nishimura, Takato Aihara, Hidekazu Suzuki, Kyohei Nagayama, Eisuke Hayashi, Ryusuke Hasegawa, Kengo Yamamoto (Shinjuku/JP)

- P10** Anterior Approach for Beak-Type OPLL in the Upper Thoracic Spine Without Sternotomy: A Report of Four Cases
Takeshi Urnebayashi, Daichi Kawamura, Takaoki Kimura, Naoko Kikuchi
Shinji Kumamoto (Tokyo/JP)
- P11** A Novel Method of Predicting Postoperative Neurological Recovery of Cervical Spondylotic Myelopathy Based on the Ultrasonographic Echo Complex
Fuxin Wei, Ningning Chen (Guangzhou/CN)
- P12** Cervical Spondylotic Myelopathy with Dynamic Factor Treated by Posterior Decompression and Segmental Fusion
Go Yoshida, Tomohiko Hasegawa, Yu Yamato, Tomohiro Banno, Hideyuki Arima
Shin Oe, Tomohiro Yamada, Yusuke Murakami
Yukihiro Matsuyama (Hamamatsu/JP)
- P13** Evaluation of Timing of Surgery on Clinical Outcome in Patients with Central Cord Syndrome
Rebecca Irvine, Kevin Tsang, Ahmed Ibrahim (London/GB)
- P14** Do Patient Reported Outcome Measures Accurately Detect Swallowing Impairments after ACDF Surgery? A Case for Considering Separate Constructs
R. Brynn Jones-Rastelli, Matina Balou, Sonja Molfenter
Milan Amin (New York, NY/US)
- P15** Patients with a T1 Slope $\geq 40^\circ$ Develop Deteriorating Alignment in the Non-fused Vertebrae Five Years after Surgery
Yusuke Murakami, Yu Yamato, Tomohiko Hasegawa, Go Yoshida
Tomohiro Banno, Hideyuki Arima, Shin Oe, Koichiro Ide, Tomohiro Yamada
Kenta Kurosu, Yukihiro Matsuyama (Hamamatsu/JP)
- P16** Cervical Sagittal Balance after Consecutive Three-level Hybrid Surgery versus Anterior Cervical Discectomy and Fusion: Radiological Results from a Single-center Experience
Shihao Chen, Wang Beiyu (Chengdu/CN)
- P17** The OC2 Angle Determines the Hyoid Bone Position and the Stiffness of the Infrahyoid Muscles in Anterior Cervical Spine Surgery
Yohei Ito, Hisanori Mihara, Yasuteru Yamaguchi, Tetsuhiko Inoue
Hiroki Katayama, Yutaka Inaba (Yokohama/JP)
- P18** Comparative Radiological Outcomes of Stand-Alone Cage versus Cage and Plate in Anterior Cervical Discectomy and Fusion (ACDF): A Retrospective Analysis
Amgad Elshoeibi, Isam Sami Moghamis (Doha/QA)
Abduljabbar Alhammoud (Tucson, AZ/US), Abedallah Abudalou, Jawad Derbas
Salahuddeen Abdelsalam, Abdulmoeen Baco (Doha/QA)

- P19 Biomechanical Implications of Perforations of Pedicle Screw Placement in the Subaxial Cervical Spine
Jula Gierse, Leonard Arndt, Kevin Klockow, Benno Bullert
Sven Y. Vetter (Ludwigshafen/DE)
- P20 The Impact of Hinge Fracture on Clinical and Radiological Outcomes in Open-Door Laminoplasty
Seokin Jang, Minjoon Cho, Sung Bae Park, Jae Hyup Lee, Tae Hoon Kang
Tae Ho Kim (Seoul/KR)
- P21 Microscope-Assisted Anterior Cervical Intervertebral Decompression with Augmented Reality Navigation Based on Preoperative Planning: An IDEAL Stage 1 Study
Minghe Yao, Wang Beiyu (Chengdu/CN)
- P22 Alternative C2 Posterior Instrumentation in the Cases with High Riding Vertebral Artery
Jong-Hyeok Park, Sung Han Oh (Seongnam-si/KR), Il Sup Kim
Jae Taek Hong (Seoul/KR)
- P23 Characteristics of Grafted Bony Fusion Patterns Following Hybrid Anterior Decompression and Fusion to Treat Multilevel Degenerative Cervical Myelopathy
Hiroshi Takahashi, Toru Funayama, Hiroshi Noguchi, Kousei Miura (Tsukuba/JP)
Junya Saito (Sakura/JP), Yuki Shiratani, Satoshi Maki, Takeo Furuya
Seiji Ohtori (Chiba/JP), Masashi Yamazaki, Masao Koda (Tsukuba/JP)
- P24 Biomechanical Properties of a Novel Cervical Spine Implant with Elastic Deformation: A Cadaveric Study
Haimiti Abudouaini (Xi'an/CN)
- P25 One-Year Clinical and Radiographic Outcomes for a Next-generation, Tri-lobed, Polycrystalline Diamond Cervical Artificial Disc
Ardeshir Ardeshiri (Hamburg/DE), Ardavan Ardeshiri (Munich/DE)
Robert Pflugmacher (Mechernich/DE)
- P26 Delayed Screw Migration Following Anterior Cervical Corpectomy
Matthew Carr, John Houten (New York, NY/US)
- P27 Accuracy and Safety of Patient-Specific Screw Guides for Cervical Pedicle Screw Insertion
Shinji Kumamoto, Keiichi Tsuda (Fukuoka/JP), Daichi Kawamura
Takeshi Umabayashi (Tokyo/JP)

- P28** Hybrid Cervical Anterior, Stand-alone Cage and Metal on Metal Disc Replacement, is it Restore Sagittal Parameter – Three Years Follow-Up
Didik Librianto, Ifran Saleh (Jakarta/ID)
- P29** The Impact of Intraoperative Neuromonitoring on Clinical Outcomes in Anterior Cervical Discectomy and Fusion (ACDF) and Cervical Disc Replacement (CDR) Procedures for Cervical Radiculopathy – Immediate and One-Year Follow-Up Results
Didik Librianto, Ifran Saleh, Fachrisal (Jakarta/ID)
- P30** Efficacy and Complications of Anterior Cervical Corpectomy and Fusion (ACCF) in the Treatment of Cervical Spine Disorders
Anh Tuan Pham, Nhat Duy Nguyen (Ho Chi Minh/VN)
- P31** Cervical Cord Injury Following Osteophyte Excision for Respiratory Distress and Dysphasia due to Forestier’s Disease with OPLL O150 – A Case Report
Sachiko Kawasaki, Hideki Shigematsu, Keisuke Masuda, Takahiro Mui
Takuya Sada, Yasuhito Tanaka (Kashihara/JP)
- P32** Surgical Strategies for Drop Head Syndrome, particularly in Patients with Adult Spinal Deformity
Masatake Ino, Takachika Shimizu (Maebashi/JP)
- P33** Anterior Corpectomy versus Posterior Pedicle Screw Fixation with 5.5 mm Rods for Metastatic Spinal Tumor Located in the Cervicothoracic Junction
Park Jin Hoon, Jang Sun woo (Seoul/KR)
- P34** A Systematic Review and Meta-Analysis Investigating the Safety and Efficacy of Expandable Cages after Anterior Cervical Corpectomy for Treatment of Cervical Myelopathy with a Focus on Stand-alone Cages
Mohamed Hesn (New Damietta/EG), Ahmed Abouelhamd (Marktredwitz/DE)
Anas Elgenidy (Cairo/EG), Omar Alomari (Istanbul/TR), Mohammed Al-kurdi (Aleppo/SY)
Amer Helal (Halle/DE), Ayman Elgharori (Zagazig/EG), Dina Khattab (Cairo/EG)
Mohamed Farahat (Mansoura/EG), Mahmoud Ali (Minia/EG)
Mohamed Tohamy (Rothenburg, Frankfurt/DE)
- P35** Clinical and Radiological Outcomes Following Cervical Disc Replacement
Hashim Vakil, Ardalan Zolnourian, Susruta Manivannan, Rebecca Suckling
Kieran Kavi, Mohammad Baraka, Madeleine Sampson
Emad Shenouda (Southampton/GB)
- P36** Anterior Cervical V-shaped Osteotomy and Fusion (ACVF) for Retro-Corporeal Decompression Bypassing Anterior vertebral Body: A Technical Note and Case Series
Wang Beiyu, Minghe Yao, Yaling Li (Chengdu/CN)

- P37 Mechanical Properties of an Elastically Deformable Cervical Spine Implant
Haimiti Abudouaini (Xi'an/CN)
- P38 Management of a Cervico-Dorsal Syringomyelia with Syringo-Subarachnoid Shunts: A Case Report
Amr Fathi Gomaa Hamad, Ahmed Ramadan Abdelfattah Saber (Fayoum/EG)
- P39 Hypothesis of Syrinx Formation from a Case of Syringomyelia with Spontaneous Resolution after Development of a Cervical Disc Hernia
Takeshi Aoyama, Mariko Kawamura, Kazuki Matsuoka, Hirokazu Furukawa
Tomohiro Iida (Sapporo/JP)
- P40 Is Unilateral Fixation enough for Screwed Anterior Cervical Cages?
Javier Melchor Duarte Clemente (Valencia/ES)
- P41 Full Endoscopic Surgery for Calcium Pyrophosphate Deposition Disease (CPPD) in the Cervical Ligamentum Flavum: Report of Two Cervical Myelopathy Cases
Woo Keun Kwon (Seoul/KR)
- P42 Complication Implant Related Metal on Metal Cervical Disc Replacement. Three Years Follow Up
Didik Librianto, Ifran Saleh (Jakarta/ID)
- P43 Anchored Drill Assisted Percutaneous Endoscopic Cervical Decompression Surgery: Technical Note
Hui Ren, Xiaobin Jiang, Bin Xie (Guangzhou/CN)
- P44 Minimally Invasive Management of an Extensive Cervicothoracic Epidural Abscess: A Case Report
Yasser El Mansy (Alexandria/EG)
Ahmed Ramadan Abdelfattah Saber (Fayoum/EG)
- P45 The Risk of Treatment Failure with or without Rigid Orthosis in Stable Cervical Spine Fractures: A Retrospective Register-based Study
Kajsa Ytterberg, Qeyam Amini, Simon Blixt, Paul Gerdhem
Anna MacDowall (Uppsala/SE)
- P46 Surgical Treated Cervical Degenerative Disc Disease is not Hereditary: Results from a National Twin Cohort Study
Marek Holy, Lilla Szigethy, Per Wretenberg (Örebro/SE)
Anna MacDowall (Uppsala/SE), Freyr Gauti Sigmundsson (Örebro/SE)
Anders Joelson (Uppsala, Örebro/SE)
- P47 Kleippel- Feil Syndrome: Uncommon Being Common, is it really Harmless in Life?
Julian Pung, Zheng Yao Chin (Taiping/MY)

- P48 Is C2/3 Anterior Cervical Discectomy and Fusion a Viable Surgical Treatment Option?
Ardalan Zolnourian, Hashim Vakili, Susruta Manivannan, Mohammad Baraka
Ali Nader-Sepahi, Emad Shenouda (Southampton/GB)
- P49 Translational Dynamism Allows Higher Transfer Load even after Graft Shortening,
with less Plate Stress Avoiding Failure: A Combined Biomechanical Study with
FEM and Essays in an ACCF Model
Javier Melchor Duarte Clemente (Valencia/ES)
- P50 Non-contiguous Three-level Skipping Hybrid Surgery with C2-3 CDA – A Case Report
Zhao Xiaoqiang, Wang Beiyu, Tian lelei (Chengdu/CN)
- P51 Neuropathic Component in Patients Treated for Cervical Disc Disease – A
Literature Review and Institutional Experience
Maciej Kamieniak, Joanna Olszak, Radosław Rola, Piotr Kamieniak (Lublin/PL)
- P52 Delayed Spinal Epidural Hematoma Associated To Cervicothoracic Trauma In
Diffuse Idiopathic Skeletal Hyperostosis – A Case Report
Alison Kenji Kojima, Kenta Kazami, Yosuke Nakayama, Satoshi Yamana
Daichi Kawamura, Hiroki Ohashi, Yuichi Murayama (Tokyo/JP)
- P53 Color Mapping in MRI for Patients with Cervical Spinal Stenosis
Yusif Zeynalov (Baku/AZ), Konstantin Dyachkov (Baku/AZ, Kurqan/RU)
- P54 The Impact of Subaxial Cervical Spine Surgery on Cervical and Overall Spinal Sagittal
Alignment: A Prospective Observational Study
Martin Bolcha, Jan Lodin, Martin Sameš, Petr Vachata (Ústí nad Labem/CZ)



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Thursday, May 15

12:15–13:15 Medtronic
Plenary Sagittal alignment on cervical spine

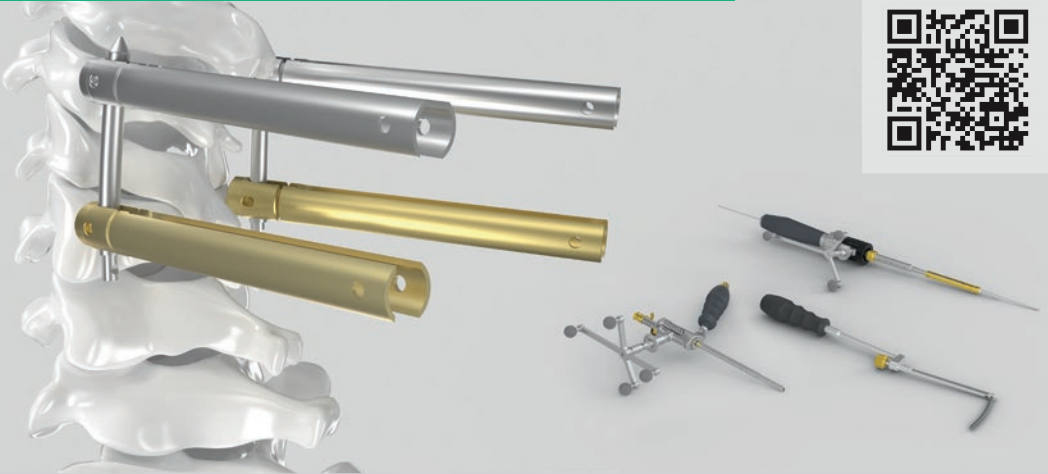
Speaker Christopher P. Ames (San Francisco, CA/US)
Henri d’Astorg (Lyon/FR)
Alexandre Delmotte (Grenoble/FR)

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Schmeiser, G., et al. (2025).
Navigated percutaneous placement of cervical pedicle screws: An anatomical feasibility study.
Brain and Spine.



Kothe, R., et al. (2023).
Minimal-invasive surgery in the cervical spine: Evidence, tips, and tricks.
Die Wirbelsäule, 07(03), 169-176.



Blume, C., et al. (2025).
A new minimally invasive cervical pedicle screw (CPS) fixation system using intra-operative computed tomography-guided navigation.
J Spine Surg.



Scholz, C., et al. (2024).
First experience using a new minimally invasive screw-rod system for completely percutaneous pedicle screw fixation of the cervical spine.
J Neurol Surg.



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Prague says hello! On the first evening of the congress, we're heading to the brewery and restaurant U Fleků.

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Venue Brewery and restaurant U Fleků
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Start 19:30

Fee 99 EUR per person (incl. dinner buffet and drinks)



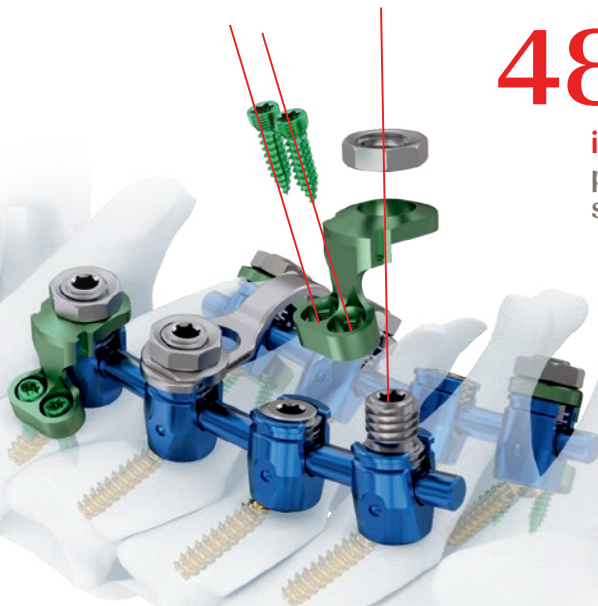
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Reference:
1. DePuy Synthes, Sagittal Plane Pullout Strength of Lateral Mass Fixation with Straight Multipoint Adapter vs Lateral Mass Fixation Alone, 19 Nov 2020, Adaptiv, 103564004

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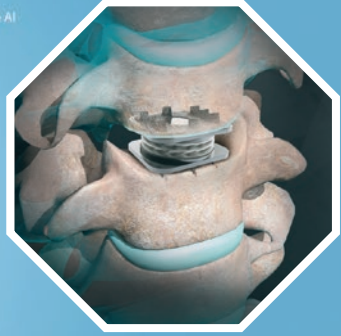


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