08:15 - 10:00  
**Room O**  
**PRE-CONGRESS COURSE SPINE - A) Update on Minimally Invasive Spine Surgery**  
**Moderators:** Zileli, Mehmet  
Osorio, Enrique

8:30 - 08:45  
Anatomic Basis for Lumbar Endoscopy  
*Salman Sharif (Pakistan)*

8:45 - 09:00  
Transforaminal lumbar endoscopy  
*Artem Gushcha (*)

9:00 - 09:15  
MIS Surgery for Spinal Tumors  
*Scott Robertson (United States)*

9:15 - 09:30  
Philosophy of Minimally Invasive Spine Surgery  
*Marcos Masini (Brazil)*

9:30 - 10:00  
Discussion

10:30 - 12:30  
**Room O**  
**PRE-CONGRESS COURSE SPINE - A) Update on Minimally Invasive Spine Surgery II**  
**Moderators:** Zileli, Mehmet  
Osorio, Enrique

10:30 - 10:45  
MIS pedicle screw fixation  
*Artem Gushcha (*)

10:45 - 11:00  
MIS Interbody Fusion  
*Nikolay Peev (UK)*

11:00 - 11:15  
MIS Cervical Surgery  
*Joachim Oertel (Germany)*

11:00 - 11:15  
MIS Deformity Surgery  
*Richard G Fessler (United States)*

11:00 - 11:15  
MIS for Spine Tumors  
*Jose Antonio Soriano Sánchez (Mexico)*

11:15 - 11:30  
Vertebroplasty and kyphoplasty  
*Nikolay Peev (UK)*

12:00 - 12:30  
Discussion
### 14:00 - 15:45
**PRE-CONGRESS COURSE SPINE - B) Update on Cervical Trauma and Spinal Cord Injury**

**Moderators:** Fornari, Maurizio  
Sharif, Salman

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:00 - 14:15</td>
<td>Odontoid fractures</td>
<td>Mehmet Zileli (Turkey)</td>
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<tr>
<td>14:15 - 14:30</td>
<td>Atlas and Craniocervical Junction Fractures</td>
<td>Oscar Alves (Portugal)</td>
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<tr>
<td>14:30 - 14:45</td>
<td>Hangman Fractures</td>
<td>Mehmet Zileli (Turkey)</td>
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<tr>
<td>14:45 - 15:00</td>
<td>Subaxial cervical fractures</td>
<td>Francesco Costa (Italy)</td>
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<tr>
<td>15:00 - 15:15</td>
<td>Fractures with ankylosis</td>
<td>Onur Yaman (Turkey)</td>
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<tr>
<td>15:15 - 15:45</td>
<td>Discussion</td>
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</tbody>
</table>

### 15:45 - 18:00
**PRE-CONGRESS COURSE SPINE - B) Update on Cervical Trauma and Spinal Cord Injury II**

**Moderators:** Fornari, Maurizio  
Sharif, Salman

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>15:45 - 16:00</td>
<td>Spinal cord injury; Medical treatment</td>
<td>Mirza Pojskic (Germany)</td>
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<tr>
<td>16:00 - 16:30</td>
<td>Discussion</td>
<td>Update on cervical trauma and spinal cord II</td>
</tr>
<tr>
<td>16:00 - 16:15</td>
<td>Spinal cord injury; Emergency care and clearance</td>
<td>Joachim Oertel (Germany)</td>
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<tr>
<td>16:15 - 16:30</td>
<td>Facet dislocations and closed or open reduction</td>
<td>Francesco Costa (Italy)</td>
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<tr>
<td>16:45 - 17:00</td>
<td>Spinal cord injury; Rehabilitation and restoration</td>
<td>Enrique Osorio (Colombia)</td>
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<tr>
<td>17:30 - 17:45</td>
<td>Case discussion (upper cervical trauma)</td>
<td>Aderehime Haidara ()</td>
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<tr>
<td>17:45 - 18:00</td>
<td>Case Discussion (Lower Cervical Trauma)</td>
<td>Zan Chen (China)</td>
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</table>
07:00 - 08:30  STATE OF ART - Spine IB
Room BC  Moderators:  Lafuente Baraza, Jesus Alves, Oscar

7:00 - 07:15  MISS: The Role of Stimulation Stations for Training
Avelino Parajon Diaz (Spain)

7:15 - 07:30  MISS Posterior Fusion
Oscar Alves (Portugal)

7:30 - 07:45  Thoracolumbar percutaneous pedicle screw placement using augmented reality guidance
Camilo Molina (United States)

7:45 - 08:00  MISS Navigation
Claudius Thome (Austria)

8:00 - 08:15  MISS in The Elderly
Jesus Lafuente Baraza (Spain)

8:15 - 08:30  MISS Tubular Procedures
Claudius Thome (Austria)

07:00 - 08:30  STATE OF ART - Spine IA
Room O  Moderators:  Visocchi, Prof. Massimiliano Casey, Adrian

7:00 - 07:15  Cervical Fractures with Ankylosis
Claudius Thome (Austria)

7:15 - 07:30  Surgical Management of Jefferson’s Fractures
Jake Timothy (United Kingdom)

7:30 - 07:45  Cervical Facet Dislocations and Closed or Open Reduction
Vakis Papanastasiou (Cyprus)

7:45 - 08:00  Central or axial atlantoaxial instability. Exoanding horizons of craniovertebral junction surgery
Atul Goel (India)

8:00 - 08:15  Endoscopic approaches to the thoracic spine
Daniel Rosenthal (Germany)

8:15 - 08:30  Lateral transpsoas approach, evolution, indications and future
Avelino Parajon Diaz (Spain)
## CONTROVERSIES IN NEUROSURGERY - Spine I

### Room O

- **Moderators:** Soriano Sánchez, Jose Antonio Thome, Claudius

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>8:40</td>
<td>Single cervical radioculopathy: anterior vs posterior foraminotomy</td>
<td>Marcos Baabor (Chile)</td>
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<tr>
<td>8:55</td>
<td>Cervical Disc Herniation: Total Disc Replacement vs ACDF</td>
<td>Miroslav Vukić (Croatia)</td>
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<tr>
<td>9:10</td>
<td>Cervical Spondylotic Myelopathy: Anterior vs Posterior Approach</td>
<td>Kenan Arnautovic (United States)</td>
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<td>9:25</td>
<td>Laminoplasty for Cervical Spondylotic Myelopathy</td>
<td>Erhan Türkoglu (Turkey)</td>
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<tr>
<td>9:55</td>
<td>Transforaminal Lumbar Endoscopy</td>
<td>Ralf Wagner (Germany)</td>
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<tr>
<td>10:10</td>
<td>Thoracic Disc Herniation: Endoscopic Management</td>
<td>Daniel Rosenthal (Germany)</td>
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</tbody>
</table>

## PLENARY SESSION - Spine I

### Auditorium

- **Moderators:** abeltran@rla-latam.com Úrculo, Enrique madeleinecases@gmail.com Rubiano, Andrés conchamola@gmail.com Magri.beatriz@gmail.com Oyesiku, Nelson

<table>
<thead>
<tr>
<th>Time</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Concomitant cranial and spinal trauma: epidemiological &amp; clinical challenges</td>
<td>Andreas Demetriades (United Kingdom)</td>
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14/03/2022
14:00 - 16:00 PERSONAL NEUROSURGICAL PRACTICE AND RESEARCH - SP01 | Spine
Moderators: Rosenthal, Daniel Uriza, Gustavo Adolfo

14:00 - 14:10 FULL ENDOSCOPIC PERCUTANEOUS SPINAL SURGERY FOR LUMBAR SPINE DISORDERS
Jose Name Guerra (Colombia)

14:10 - 14:20 Clinical and radiological outcomes for mini-open combined one step anterior and oblique approach for two level lumbar interbody fusion.
Pablo Mendivil (Argentina)

14:20 - 14:30 The Outcomes of Lumbar discectomy in a young and active Population
Farid Zahrou (Morocco)

14:30 - 14:40 Cervical spine vertebrectomies in civilian gunshot spine injury: case series
Alejandro Gómez Martínez (Colombia)

14:40 - 14:50 Cervical adjacent segment degeneration after spine surgery
Carlos Ribeiro (Portugal)

14:50 - 15:00 Atypical symptoms in patients with cervical spondylosis: results from anterior cervical discectomy and fusion compared to cervical arthroplasty
Giovanni Grasso (Italy)

15:10 - 15:20 ALIF's experience with conditioned devices in a public hospital in Lima-Peru
Elar Cari (Perú)

15:20 - 15:30 How to reduce the risk of post operative Pain in lumbar degenerative spine surgery. Our experience
Said Ait Benali (Morocco)

15:30 - 15:40 Three-dimensional impression in neurosurgery: Application in spinal instrumentation surgery
Cristian Eugenio Salazar Campos (Perú)
PERSONAL NEUROSURGICAL PRACTICE AND RESEARCH - SP02 | Spine

Moderators: Masini, Marcos
            Fessler, Richard G
            Cossio, Neftali

16:30 - 16:40 Robotic Assisted Spinal Surgeries, A Ray of Hope During an Infective Pandemic
            Qurrat Ain (Pakistan)

16:40 - 16:50 Hybrid surgery improve quality of life in multilevel cervical degenerative disc disease: Long
            -term follow-up study
            Giovanni Grasso (Italy)

16:50 - 17:00 Outcomes of craniocervical or atlantoaxial fixation in paediatric cohort with craniocervical
            instability
            Fardad T. Afshari (United Kingdom)

17:00 - 17:10 SPINAL TUMOR RESECTION BY MISS APPROACHES, INITIAL EXPERIENCE
            Alberto Ramirez R. (Mexico)

17:10 - 17:20 Temporary Standalone Percutaneous Fixation with Pedicle Screws for the Treatment of
            Subacute Tuberculosis Osteomyelitis with Kyphotic Deformity in the Lumbar Spine
            Mokshal Porwal (United States)

17:20 - 17:30 Cervical Total Disc Replacement in High-Impact Sports: Case-Report
            Carlos Ribeiro (Portugal)

17:30 - 17:40 Complications Associated with Subaxial Placement of Pedicle Screws versus Lateral
            Mass Screws in the Cervical Spine: Systematic Review and Meta-analysis Comprising
            1,768 Patients and 8,636 Screws
            Mohamed Soliman (Egypt)

17:40 - 17:50 Surgical management of C3-C7 Cervical Fractures
            Geldon Fejzo (Albania)
07:00 - 08:30  STATE OF ART - Spine II  
**Moderators:** Fessler, Richard G  
Meyer, Bernhard

7:00 - 07:15  Instability, Updating the Concept: Clinical Focus for Neurosurgeons  
*Adrian Casey (United Kingdom)*

7:15 - 07:30  C1-C2 Instability in Patients with Rheumatoid Arthritis: Surgical Management  
*Paulo Pereira (Portugal)*

7:30 - 07:45  Management of degenerative cervical myelopathy  
*Michael Fehlings (Canada)*

7:45 - 08:00  Only-fixation' as surgical strategy for myelopathy and radiculopathy related to spinal degeneration and OPLL  
*Atul Goel (India)*

8:00 - 08:15  Lumbar Far Lateral Disc Herniation: Surgical Treatment  
*Vakis Papanastasiou (Cyprus)*

8:15 - 08:30  Sacroiliitis: Pain Management and Surgical Treatment  
*Carlos Javier Dominguez Alonso (Spain)*

08:40 - 10:10  WFNS SPINE COMMITTEE I  
**Moderators:** Zileli, Mehmet  
Sharif, Salman

8:40 - 08:55  Natural course and epidemiology  
*Krishna Sharma (Nepal)*

8:55 - 09:10  Value of radiology and electrophysiological tests  
*Mehmet Zileli (Turkey)*

8:55 - 09:10  Cervical Spondylotic Myelopathy: Value of Radiology and Electrophysiological Tests  
*Mehmet Zileli (Turkey)*

9:10 - 09:25  Cervical Spondylotic Myelopathy: Conservative or Surgical Treatment  
*Oscar Alves (Portugal)*

9:10 - 09:25  Conservative or surgical treatment  
*Oscar Alves (Portugal)*

9:25 - 09:40  Evidence for Type of Surgeries  
*Salman Sharif (Pakistan)*

9:40 - 09:55  Outcome measures and clinical variables affecting outcomes  
*Francesco Costa (Italy)*
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<thead>
<tr>
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<tbody>
<tr>
<td>08:40</td>
<td>Cervical Spondylotic Myelopathy: Outcome Measures and Clinical Variables Affecting outcomes</td>
<td>Bong-Soo Kim (United States)</td>
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<tr>
<td>08:55</td>
<td>Cervical Spondylotic Myelopathy: Radiological Variables Affecting Outcomes</td>
<td>Jutty Parthiban (India)</td>
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<td>09:10</td>
<td>Lumbar Spinal Stenosis: Decompression vs Decompression and Fusion</td>
<td>Carlos Javier Dominguez Alonso (Spain)</td>
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<tr>
<td>09:25</td>
<td>Anterolateral approach to L4L5 and L5S1: Lateral or Anterior position, when and how</td>
<td>Pablo Vela (Colombia)</td>
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<tr>
<td>09:40</td>
<td>Decompressive Surgery for Lumbar Spinal Stenosis</td>
<td>George Dohrmann (USA)</td>
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<tr>
<td>09:55</td>
<td>Intradural Extramedullary Spinal Tumors: Open vs MIS Approach</td>
<td>Richard G Fessler (United States)</td>
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<tr>
<td>10:10</td>
<td>Strategy of treatment of intramedullary spinal cord tumors. Lessons for the future on the experience of more than 1000 cases.</td>
<td>Nikolay Konovalov (Russian Federation)</td>
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10:40 - 12:20  PERSONAL NEUROSURGICAL PRACTICE AND RESEARCH - SP03 | Spine

Moderators:  
Pereira, Paulo  
Berbeo, Miguel  
Baabor, Marcos

10:40 - 10:50  Neuropathic Pain: A component to be considered when treating degenerative lumbar disease  
Paulo Pereira (Portugal)

10:50 - 11:00  Avoiding dysphagia in anterior cervical discectomy surgery  
Fabio Torregrossa (Italy)

11:00 - 11:10  Role of pedicle screw augmentation in decreasing the reoperations rate following posterior lumbar interbody fusion.  
Pablo Mendivil (Argentina)

11:10 - 11:20  GIANT CERVICAL EPENDIMOMA, AN INFREQUENT PRESENTATION. REPORT OF TWO CASES  
Luis Jaime Saavedra Ramírez (Perú)

Diego A. Devia (Colombia)

11:30 - 11:40  How effective and safe is minimally invasive oblique lumbar interbody fusion in patients with degenerative lumbar disease  
Paulo Pereira (Portugal)

11:40 - 11:50  Effectiveness of 6 surgical approaches for minimally invasive lumbar interbody fusion: 1-year follow-up results from a global study  
Paulo Pereira (Portugal)

11:50 - 12:00  Comparison of surgical vs Intradiscal Ozone Treatment of Sciatica due to Lumbar Disc Herniation with Special Reference to COVID-19 Pandemic  
Qurrat Ain (Pakistan)
10:40 - 10:50 ‘Only spinal fixation’ as surgical treatment of cervical myelopathy related to ossified posterior longitudinal ligament. A review of 57 cases
   Atul Goel (India)

10:50 - 11:00 Greater trochanteric pain syndrome in spine surgery - the role of timely diagnosis
   Arkady Kazmin (Russian Federation)

11:00 - 11:10 CLINICAL IMPROVEMENT OF PAIN IN PATIENTS WITH VERTEBRAL FRACTURES TREATED WITH VERTEBROPLASTY AT THE “20 DE NOVIEMBRE” NATIONAL MEDICAL CENTER, MEXICO CITY
   Alberto Ramírez R. (Mexico)

11:10 - 11:20 Intraoperative three-dimensional computerized tomography (O-arm) guided navigation system for the posterior spinal fixation: experience in colombia.
   Carlos Alfredo Pimentel Bernal (Dominican Republic)

11:20 - 11:30 Anterior Decompression for Rare case of Aracnoidal Anterior Cervical Cyst
   Dunia Patricia Quiroga Angulo (Colombia)

11:30 - 11:40 Providing an automated method for detection of unstable burst fractures of the lumbar spine based on FCM in infrared images
   Fatemeh Valipoori Goodarzi (Iran)

11:40 - 11:50 Unilateral full-Endoscopic versus tubular approach in lumbar spinal stenosis.
   Angela Carrascosa Granada (Spain)

11:50 - 12:00 En bloc resection of grade II intramedullary ependymomas is associated with superior Gross Total Resection (GTR) rates and functional outcome at 3 months
   Vincent Healy (Ireland)

12:00 - 12:10 Effectiveness and Safety of Continuous Infusion Regional Anesthesia Pumps for Pain after Thoracopelvic Fusion Surgeries for Persistent Spinal Pain Syndrome
   Mohamed Soliman (Egypt)

12:10 - 12:20 Perioperative Outcomes and Predictive Factors of Anterior Lumbar Interbody Fusions based on American Society of Anesthesiologist Physical Status Score: a multicenter, retrospective cohort study
   Mohamed Soliman (Egypt)
14:00 - 16:00 PERSONAL NEUROSURGICAL PRACTICE AND RESEARCH - SP05 | Spine

Moderators: Zuluaga, Julián
Zileli, Mehmet
Parajon Díaz, Dr. Avelino

14:00 - 14:10 CEMENT REINFORCEMENT OF THE ENGAGED VERTEBRAL BODIES IN CASES WITH SYMPTOMATIC LOOSENING, MIGRATION AND FRACTURE OF TRANSPEDICULAR SCREWS
Yavor Enchev (Bulgaria)

14:10 - 14:20 Posterolateral epidural supra-C2-root approach (PESCA) for biopsy of lesions of the odontoid process and the retro-odontoid region in same sitting after occipitocervical fixation and decompression
Sasan Darius Adib (Germany)

14:20 - 14:30 Biologic nucleoplasty a novel procedure for degenerative disc disease, single-center experience at Hospital Universitario San José Infantil in Bogotá, Colombia.
Juan-Pablo Perilla-Estrada (Colombia)

14:30 - 14:40 Facet-joint corticoestereoids injections and percutaneous lumbar rhizotomy as chronic low back pain treatment. A cost-effectiveness comparison.
Sebastian A. Ochoa Guzman (Ecuador)

14:40 - 14:50 Visual field related quality of life after deformity correction in cases of lower cervical spine trauma of patients with ankylosing spondylitis - Retrospective monocentric study
Petr Vachata (Czech Republic)

14:50 - 15:00 Safety and efficacy of selective dorsal rhizotomy in patients with spinal cord injury-induced spasticity
Saeed Oraee-yazdani (Iran)

15:00 - 15:10 INSTRUMENTED DECOMPRESSION IN THE ELDERLY WITH DEGENERATIVE LUMBAR CANAL STENOSIS WITH COMORBIDITIES IMPROVES QUALITY OF LIFE
Harjinder Singh Bhatoe (India)

15:10 - 15:20 Surgical treatment of spinal metastases and factors associated with post-operative survival - a 10-year retrospective analysis
Felix Steckler (United Kingdom)

Andrés Camilo Vargas-Jiménez (Spain)

15:30 - 15:40 Surgical Strategies and Management of Adult Spine Tuberculosis at the Hospital Antonio Lorena in Cusco - PERÚ
Jean Marcel Castelo Vega (Perú)
### 07:00 - 08:45  WFNS SPINE COMMITTEE II

**Room N**

**Moderators:**  
Robertson, Dr. Scott  
Costa, Mr. Francesco

- **7:00 - 07:15**  Natural Course and Conservative Treatment for Lumbar Spinal Stenosis  
  Francesco Costa (Italy)
- **7:15 - 07:30**  Value of radiology and electrophysiological tests  
  Nikolay Peev (UK)
- **7:30 - 07:45**  Percutaneous Techniques for Lumbar Spinal Stenosis  
  Scott Robertson (United States)
- **8:00 - 08:15**  Fusion surgery for lumbar spinal stenosis  
  Mirza Pojskic (Germany)
- **8:15 - 08:30**  Adjacent level disease  
  Nikolay Konovalov (Russian Federation)
- **8:30 - 08:45**  Mobility Preserving Surgery for Lumbar Spinal Stenosis  
  Ben Roitberg (USA)

### 08:40 - 10:10  CONTROVERSIES IN NEUROSURGERY - Spine III

**Room O**

**Moderators:**  
Duff, John Michael  
Konovalov, Nikolay

- **8:40 - 08:55**  C1-C2 Rheumatoid Reducible Subluxation: Posterior Wiring vs Screws  
  Massimiliano Visocchi (Italy)
- **8:55 - 09:10**  Management of giant thoracic disc: different options  
  Jake Timothy (United Kingdom)
- **9:10 - 09:25**  MISS vs Open in lumbar spinal stenosis  
  Angela Carrascosa Granada (Spain)
- **9:25 - 09:40**  Unstable L5-S1 Low Grade Spondylolisthesis: ALIF vs TLIF  
  Richard Assaker (France)
- **9:40 - 09:55**  Biological Nucleoplasty for Degenerative Disc Disease  
  Adrian Casey (United Kingdom)
14:00 - 16:00 VIDEO SESSIONS - Spine

Moderators: Demetriades, Andreas
            Carrascosa Granada, Angela

14:00 - 14:12 Transoral Odontoidectomy
           Adrian Casey (United Kingdom)

14:12 - 14:24 Occipitocervical Fusion
           John Michael Duff (Switzerland)

14:24 - 14:36 Surgical Technique in Chiari I Malformation
           Andreas Demetriades (United Kingdom)

14:36 - 14:48 Syringomielia. Surgical Approach
           Joerg Klekamp (Germany)

14:48 - 15:00 Transnasal endoscopic odontoid resection
           Bernhard Meyer (Germany)

15:00 - 15:12 Microsurgical Anterior Cervical Foraminotomy
           Marcos Baabor (Chile)

15:24 - 15:36 Anterior Cervical Corpectomy and Fusion for Cervical Spondylotic Myelopathy
           Mehmet Zileli (Turkey)

15:36 - 15:48 Tubular decompression of the cervical spine
           Jose Antonio Soriano Sánchez (Mexico)

15:48 - 16:00 Minimally Invasive Retropneural Corpectomy
           Richard G Fessler (United States)

16:30 - 18:10 VIDEO SESSIONS - Spine II

Moderators: Thome, Claudius
            Perilla, Tito

16:30 - 16:42 Transdural resection of calcified giant thoracic disc
           Bernhard Meyer (Germany)

16:42 - 16:54 Percutaneous Endoscopic Lumbar Foraminotomy
           Ralf Wagner (Germany)

16:54 - 17:06 MISS techniques in treatment of spinal stenosis and Biological fusion
           Tito Perilla (Colombia)
### 07:00 - 08:30
**STATE OF ART - Spine III**

**Moderators:** Papanastasiou, Vakis
Gandia Gonzalez, Maria Luisa

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<thead>
<tr>
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<tr>
<td>7:00</td>
<td>Spinal dural defect and transdural spinal cord herniation: diagnosis, pathogenesis and management overview</td>
<td>Enrique Úrculo (Spain)</td>
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<td>7:15</td>
<td>Surgical Management of Hangman's Fractures</td>
<td>Wilco Peul (Netherlands)</td>
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<tr>
<td>7:30</td>
<td>Cervical Spondylotic Myelopathy: Anterior Decompression Techniques</td>
<td>Andreas Demetriades (United Kingdom)</td>
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<tr>
<td>7:45</td>
<td>Cervicothoracic Junction Fractures: Surgical Management</td>
<td>Ruben Martin Laez (Spain)</td>
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<tr>
<td>8:00</td>
<td>Lumbar Recurrent Disc Herniation: Surgical Strategies Reduce the Possibility</td>
<td>Claudius Thome (Austria)</td>
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<tr>
<td>8:15</td>
<td>Sacral Fractures: Surgical Management</td>
<td>Maria Luisa Gandia Gonzalez (Spain)</td>
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### 08:40 - 10:10
**CONTROVERSIES IN NEUROSURGERY - Spine IV**

**Moderators:** Salas Ferrufino, Gueider
Martin Laez, Dr. Ruben

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:40</td>
<td>Meningiomas of the Craniocervical Junction. Surgical Approach</td>
<td>Kresimir Rotim (Croatia)</td>
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<tr>
<td>8:55</td>
<td>Unilateral Cervical Facet Dislocation: Anterior vs Posterior Approach</td>
<td>Maria Luisa Gandia Gonzalez (Spain)</td>
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<tr>
<td>9:10</td>
<td>Thoracic Disc Herniation: Microscopic vs Endoscopic Approach</td>
<td>Florian Alexander Ringel (Germany)</td>
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<tr>
<td>9:25</td>
<td>Vertebral Destructive Syndrome. Systematization in its diagnosis.</td>
<td>Armando Alpizar Aguirre (Mexico)</td>
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<tr>
<td>9:40</td>
<td>Functional results of the administration of ozone and platelet-rich plasma as a treatment for lumbar sacral disc herniation pain</td>
<td>Luis Miguel Duchen Rodriguez (Bolivia)</td>
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<tr>
<td>9:55</td>
<td>Discussion</td>
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PERSONAL NEUROSURGICAL PRACTICE AND RESEARCH - SP06 | Spine

Moderators: Soriano Sánchez, Jose Antonio Demetriades, Andreas Vela, Pablo

10:40 - 10:50 Incidence of Major and Minor Vascular Injuries During Lateral Access Lumbar Interbody Fusion Procedures: A Retrospective Comparative Study and Systematic Literature Review
Mohamed Soliman (Egypt)

10:50 - 11:00 Muscle weakness related spinal instability is the cause of Cervical spinal degeneration and spinal stabilization is the treatment: An experience with 215 cases surgically treated over 7 years.
Atul Goel (India)

11:00 - 11:10 Multimodal Treatment for Aggressive Vertebral Hemangiomas: Preoperative Embolization for Resection and Further Stabilization with Kyphoplasty and Fusion
Carlos Gamboa Oñate (Colombia)

11:10 - 11:20 10-year single centre experience of a self-locking cage for multilevel ACDF: do we really need to plate
Ravindra Nannapaneni (United Kingdom)

11:20 - 11:30 Transfacet and Transpedicular Posterior approach to symptomatic intradural Thoracic disc herniations: A consecutive case series of six patients
Daniel Thompson (United Kingdom)

11:30 - 11:40 Validation of The Cauda Scale (TCS) for the assessment of acute referrals with suspected cauda equina syndrome.
Gionathan Amante (United Kingdom)

11:40 - 11:50 FULL-ENDOSCOPIC INTERLAMINAR LAMINECTOMY AS TREATMENT OF LUMBAR CANAL STENOSIS. SURGICAL TECHNIQUE STEP BY STEP.
Angela Carrascosa Granada (Spain)

11:50 - 12:00 Giant extradural intra and extra medullary cervical spine schwannoma in adult with no history of neurofibromatosis type I. A case report and literature review
José Francisco Sánchez Cuéllar (Mexico)

12:00 - 12:10 Diagnostic test scale SI5: Assessment of sacroiliac joint dysfunction
Silvia Tatiana Quintero-Oliveros (Colombia)
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<th>Time</th>
<th>Session</th>
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| 14:00 - 16:00 | PERSONAL NEUROSURGICAL PRACTICE AND RESEARCH - SP07 | Patiño Gomez, Javier Gustavo Alves, Oscar | Analgesic effects of combination of preoperative intravenous magnesium sulfate and oral pregabalin on postoperative pain in patients undergoing posterior lumbar spinal fusion surgery  
Saeed Oraee-yazdani (Iran)                                                            |
| 14:00 - 14:10 |                                                                 |                                               | LUMBAR SCREWS IN BAD POSITION WITHOUT CLINICAL SIGNIFICANCE, SHOULD THEY BE REPLACED            
Piero Palacin Silva (Perú)                                                              |
| 14:10 - 14:20 |                                                                 |                                               | Minimally invasive lateral single-position surgery for multilevel degenerative lumbar spine disease: feasibility and perioperative results in a single Latin-American spine center  
Sara Henao Romero (Colombia)                                                           |
| 14:30 - 14:40 |                                                                 |                                               | MINIMALLY INVASIVE Latissimus Dorsi-DISSECTION OF MULTIPLE LEVELS OF LUMBAR SPINE DISEASE: F: stripping and decompression of multiple levels of lumbar spine disease  
Sara Henao Romero (Colombia)                                                           |
| 14:40 - 14:50 |                                                                 |                                               | ENDOSCOPIC DISECTOMY OF L5-S1 DISC HERNIATION THROUGH POSTERIOR APPROACH: Using a standard tubular system or a syringe as a working channel  
Jerson Flores (Perú)                                                                  |
| 14:50 - 15:00 |                                                                 |                                               | Effectiveness of 3D modeling in lowering malposition rates in severe lumbar degenerative deformity surgery  
Arkadiy Kazmin (Russian Federation)                                                     |
| 15:00 - 15:10 |                                                                 |                                               | Proposing a clinical diagnostic scale to identify lumbar facet joint pain: a systematic review of literature and pilot study.  
Maria Isabel Ocampo-Navia (Colombia)                                                   |
| 15:20 - 15:30 |                                                                 |                                               | Venous anatomy of the lumbar region applied to anterior lumbar interbody fusion (ALIF): Proposal of a new classification  
Alejandro Vargas-Moreno (Colombia)                                                     |
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<tr>
<td>14:00</td>
<td>PERSONAL NEUROSURGICAL PRACTICE AND RESEARCH - SP08</td>
<td>Moderators: Lafuente Baraza, Jesus Konovalov, Nikolay Llanos, Carlos</td>
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<td>14:00 - 14:10</td>
<td>NON DYSRAPHIC THORACO SPINAL INTRAMEDULLARY LIPOMA OF ADULT ONSET - A RARE PRESENTATION</td>
<td>Prasanth Duraisamy (India)</td>
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<td>14:10 - 14:20</td>
<td>Non-invasive brain stimulation for the treatment of chronic low back pain in neurosurgical patients without indication for surgery</td>
<td>Bernhard Sutter (Austria)</td>
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<td>14:20 - 14:30</td>
<td>Is there resource wastage in Low Back Pain research Trial discontinuation and publication outcome</td>
<td>Andreas Demetriades (United Kingdom)</td>
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<td>14:30 - 14:40</td>
<td>Anterior Approach versus Posterior Approach for Patients with Cervical Spondylotic Myelopathy: A Meta-analysis of 2318 patients</td>
<td>Ahmed Negida (United States)</td>
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<td>14:40 - 14:50</td>
<td>ROUSSOULY CLASSIFICATION IN LUMBAR DISC HERNIA OPERATED PATIENTS, HOSPITAL ALMENARA, LIMA - PERU</td>
<td>Eduardo Laos Plasier (Perú)</td>
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<tr>
<td>14:50 - 15:00</td>
<td>Upper Cervical Fractures: Our experience</td>
<td>Irgen Hodaj (Albania)</td>
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<td>15:00 - 15:10</td>
<td>Outcomes of Surgically and Conservatively Managed Adult Spinal Lipomas - a 10-year Cohort Study</td>
<td>Jigisha Moudgil-joshi (United Kingdom)</td>
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<td>15:10 - 15:20</td>
<td>Spiritual Significance of Spine</td>
<td>Pragnesh Bhatt (United Kingdom)</td>
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<td>15:20 - 15:30</td>
<td>Cervical submandibular approach for an unstable C3 fracture management</td>
<td>Jean Marcel Castelo Vega (Perú)</td>
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<td>07:00</td>
<td>STATE OF ART - Spine IV</td>
<td>Duff, John Michael Díaz, Roberto</td>
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<td>07:00</td>
<td>Syringomyelia - how should it be diagnosed and treated</td>
<td>Joerg Klekamp (Germany)</td>
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<td>07:15</td>
<td>Metastatic Spinal Tumors: Surgical Management</td>
<td>Michael Fehlings (Canada)</td>
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<td>07:30</td>
<td>Adjacent Segment Disease in The Cervical Spine: Surgical Strategies</td>
<td>Bernhard Meyer (Germany)</td>
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<td>07:45</td>
<td>Alternatives to traditional treatment of lumbar spine canal stenosis</td>
<td>Julio Luis Pozuelos Lopez (Guatemala)</td>
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<td>08:00</td>
<td>Thoracolumbar Junction Fractures: Surgical Management</td>
<td>Richard Assaker (France)</td>
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<td>08:15</td>
<td>Discussion</td>
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<td>08:40</td>
<td>CONTROVERSIES IN NEUROSURGERY - Spine VI</td>
<td>Ley Urzaiz, Luis Falavigna, Prof. Asdrubal</td>
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<td>08:40</td>
<td>Chiari I malformation and Basilar Invagination - Decompression or Fusion</td>
<td>Joerg Klekamp (Germany)</td>
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<td>08:55</td>
<td>What are the long term PROMs after non-surgical treatment of C2 fractures in the elderly</td>
<td>Andreas Demetriades (United Kingdom)</td>
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<td>09:10</td>
<td>Type 2 Odontoid Fractures: Conservative vs Surgical Treatment</td>
<td>Asdrubal Falavigna (Brazil)</td>
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<td>09:25</td>
<td>Cervicobrachialgia after road traffic accidents. Surgical management</td>
<td>Felix Dolorit (United States)</td>
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<td>09:40</td>
<td>Discussion</td>
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08:40 - 10:10  CONTROVERSIES IN NEUROSURGERY - Spine V
Room O
Moderators:  Meyer, Bernhard
           Vazquez Soto, Pedro

8:40 - 08:55  Spinal CSF Fistula. How to management
              John Michael Duff (Switzerland)

8:55 - 09:10  MIS in treatment of lumbar intervertebral disc herniation
              Kresimir Rotim (Croatia)

9:10 - 09:25  Lumbar Synovial Cysts: Resection vs Rejection and Fusion
              Pablo Mendivil (Argentina)

9:25 - 09:40  TLIF miniopen
              Pedro Vazquez Soto (Chile)

11:00 - 11:20  PLENARY SESSION - Spine III
Auditorium
Moderators:  abeltran@rla-latam.com
            Fonseca, Marco
            Soriano Sánchez, Jose Antonio
            madeleinecases@gmail.com
            conchamola@gmail.com
            Magri.beatriz@gmail.com
            El Abbadi, Prof. Najia

11:00 - 11:20  MIS 360 fusion with total navigation
               Bernhard Meyer (Germany)