Workshop on Neuroendoscopy:
A comprehensive overview on endoscopy of the brain, skull base and spine with live procedures and dissection

Naples Virtual Workshop
April 6-10, 2021

www.ifneworkshop.org
Welcome Message

Virtually together!

Dear friends and colleagues,

We hope that you are all in good health and good spirits during this unprecedented global health crisis.

Considering the health and safety of our colleagues and delegates as our highest priority in these challenging times, and following the recommendations by the public health authorities, we made the decision to turn our Society’s milestone event, IFNE Workshop into a completely virtual event. For another year, we have the implicit support of Japanese Society of Neuroendoscopy (JSNE), Grupo Latinoamericano de Estudios en Neuroendoscopia (GLEN), Neuroendoscopy Society-India (NESI), Chinese Society for Neuroendoscopy (CSNE), Societa Italiana Neurochirurgia (SINCH) and World Federation of Neurosurgical Societies (WFNS). A special thanks goes to Centro di Biotecnologie A.O.R.N. “Antonio Cardarelli” that will help the realization of our event for another year.

This year, the Scientific Program will bring a rich assortment of lectures, video presentations, live demonstration on anatomical models and dissection videos. You will find educational sessions exploring brain endoscopy, skull base and spine delivered by world-renowned international faculty. Our virtual workshop welcomes senior, students and recent graduate neurosurgeons who practice or want to practice neuroendoscopic surgery. Between each session, participants will have the opportunity to network and connect with other scientists from all over the world. They will also have the opportunity, to ask questions and see them answered in real time.

The transfer of knowledge knows no boundaries and throughout this evolving situation, we are here with the goal of making learning more accessible and inspire interaction. Your active participation will undoubtedly contribute to a successful and productive meeting.

With warm regards,

Giuseppe Cinalli
Chair of the Organizing Committee

Luigi Maria Cavallo
Joachim Oertel
Salman Sharif
Henry Schroeder
Co-Chairs of the Organizing Committee
IFNE President
Organization

Organized by:

International Federation of Neuroendoscopy

In collaboration with

Centro di Biotecnologie - A.O.R.N. “Antonio Cardarelli”
9, Via Antonio Cardarelli, 80131 Naples, Italy
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Under the patronage of:

Japanese Society for Neuroendoscopy (JSNE)
Chinese Society for Neuroendoscopy (CSNE)
Grupo Latinoamericano de Estudios en Neuroendoscopia (GLEN)
World Federation of Neurosurgical Societies (WFNS)
Neuroendoscopy Committee
Neuroendoscopy Society - India (NESI)
Società Italiana di Neurochirurgia (SINCH)

Local Organizing Committee

Chair: Giuseppe Cinalli
Co-Chairs: Luigi Maria Cavallo  Joachim Oertel  Salman Sharif

IFNE Administrative Secretariat & Workshop Organizing Bureau

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Waleed Azab, Kuwait
Michaël Bruneau, Belgium
Benedikt Burkhardt, Germany
Adrian Caceres, Costa Rica
Paolo Cappabianca, Italy
Paolo Castelnuovo, Italy
Luigi Maria Cavallo, Italy
Fernando Chico-Ponce de Leon, Mexico
Li Chuzhong, China
Giuseppe Cinalli, Italy
Alvaro Cordoba, Uruguay
Erwin Cornips, Belgium
Artur Da Cunha, Brazil
Mateus Dal Fabbro, Brazil
Elena D’Avella, Italy
Iacopo Dallan, Italy
Matteo de Notaris, Italy
Hans Delye, The Netherlands
Chandrashekhar Deopujari, India
Alberto Di Somma, Spain
Francesco Doglietto, Italy
Samer Elbabaa, USA
Felice Esposito, Italy
James Evans, USA
Juan Fernandez-Miranda, USA
Alessandro Fiorindi, Italy
Marco Maria Fontanella, Italy
Sebastien Froelich, France
Renato Galizio, Italy
Paul Gardner, USA
Antonino Germano, Italy
Flavio Giordano, Italy
Carlo Giussani, Italy
Sergey Gorelyshev, Russia
Andre Grotenhuis, The Netherlands
Songbai Gui, China
Arman Hakobyan, Armenia
Tenoch Herrada-Pineda, Mexico
Jose Hinojosa, Spain
Alessia Imperato, Italy
Emmanuel Jouanneau, France
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Daniel Kelly, USA
Doo-Sik Kong, Korea
Sandi Lam, USA
Hansjörg Leu, Switzerland
Stefan Linsler, Germany
James K. Liu, USA
Davide Locatelli, Italy
Thomas Lübbers, Germany
Carlo Efisio Marras, Italy
Diego Mazzatenta, Italy
Giovanni Miccoli, Italy
Hisayuki Murai, Japan
Sait Naderi, Turkey
Kenichi Nishiyama, Japan
Joachim Oertel, Germany
Piero Andrea Oppido, Italy
Memet Ozek, Turkey
Llewellyn Padayachy, South Africa
Manas Panigrahi, India
Nikolay Peev, Ireland
Shrinivas Rohidas, India
Henry Schroeder, Germany
Theodore Schwartz, USA
Wan Tew Seow, Singapore
Salman Sharif, Pakistan
Domenico Solari, Italy
Pietro Spennato, Italy
Kazuhito Takeuchi, Japan
Gianpiero Tamburrini, Italy
Ulrich-Wilhelm Thomale, Germany
Christoph Tschan, Germany
Srefan Wolfsberger, Austria
Gabriel Zada, USA
Bassel Zebian, United Kingdom
Francesco Zenga, Italy
Yazhuo Zhang, China
Peng Zhao, China
Mehmet Zileli, Turkey
Gianluigi Zona, Italy
CME Accreditation

The 2021 IFNE-JSNE-GLEN-NESI-CSNE Virtual Workshop on Neuroendoscopy, 06/04/2021–10/04/2021, has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) for a maximum of 32 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

Official Language
The official language of the Course is English. No simultaneous interpretation will be provided.

Certificate of Attendance
All registered delegates having attended the Workshop will receive an electronic Certificate after completing the delegates survey which will be sent via email after the event.
## DAY 1 | ENDOVENTRICULAR SURGERY
Tuesday • April 6, 2021

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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Chairpersons</th>
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<tbody>
<tr>
<td>08:00-09:30</td>
<td>SESSION 1: Basic principles and allied technologies</td>
<td>Welcome address of IFNE President</td>
<td>Llewellyn Padayachy, Ulrich-Wilhelm Thomale, Henry Schroeder</td>
</tr>
<tr>
<td>08:00-08:15</td>
<td>Adrian Caceres</td>
<td>Endoscope: basic principles and instrumentation</td>
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<tr>
<td>08:15-08:30</td>
<td>Wan Tew Seow</td>
<td>Endoscopic anatomy of the ventricles</td>
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<td>08:30-08:45</td>
<td>Stefan Wolfsberger</td>
<td>Neuronavigation and Neuroendoscopy</td>
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<td>08:45-09:00</td>
<td>Piero Andrea Oppido</td>
<td>Laser in Neuroendoscopy</td>
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<td>09:00-09:15</td>
<td>Bassel Zebian</td>
<td>Ultrasonic aspirator in Neuroendoscopy</td>
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<td>09:15-09:30</td>
<td>Carlo Efisio Marras</td>
<td>Robot assisted Neuroendoscopy</td>
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<tr>
<td>09:30-11:00</td>
<td>SESSION 2: Procedures</td>
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<td>Stefan Wolfsberger, Wan Tew Seow</td>
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<tr>
<td>09:30-09:45</td>
<td>Esperanza ArcasNavarrete</td>
<td>ETV: Surgical technique</td>
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<tr>
<td>09:45-10:00</td>
<td>Llewellyn Padayachy</td>
<td>ETV and CPC</td>
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<tr>
<td>10:00-10:15</td>
<td>Joachim Oertel</td>
<td>Septostomy: Surgical Technique</td>
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<td>10:15-10:30</td>
<td>Alessia Imperato</td>
<td>Aqueductoplasty</td>
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<tr>
<td>10:30-10:45</td>
<td>Gianpiero Tamburrini</td>
<td>Multiloculated Hydrocephalus-Surgical Techniques</td>
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<tr>
<td>10:45-11:00</td>
<td>Ulrich-Wilhelm Thomale</td>
<td>Ventricular washing in PHH in prematures</td>
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<tr>
<td>11:00-11:15</td>
<td>Networking Break</td>
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<tr>
<td>11:15-12:30</td>
<td>LIVE DEMONSTRATION</td>
<td>ANATOMICAL MODELS: ETV-Aqueductoplasty</td>
<td>Giuseppe Cinalli</td>
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<td>12:30-13.00</td>
<td>Discussion- Q&amp;A</td>
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<td>13:00-13:15</td>
<td>Networking Break</td>
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<tr>
<td>13:15-15:00</td>
<td>SESSION 3: Arachnoid cysts and Complex infectious pathologies</td>
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<td>Adrian Caceres, Gianpiero Tamburrini</td>
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<td>13:15-13:30</td>
<td>Artur da Cunha</td>
<td>ETV and shunt malfunction</td>
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<td>13:30-13:45</td>
<td>Tenoch Herrada-Pineda</td>
<td>Neurocysticercosis</td>
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<tr>
<td>13:45-14:00</td>
<td>Fernando Chico Ponce de Leon</td>
<td>Endoscopic treatment of brain abscess and ventriculitis</td>
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<td>14:00-14:15</td>
<td>Chandrashekhar Deopujari</td>
<td>ETV in post-tuberculosis hydrocephalus</td>
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<td>14:15-14:30</td>
<td>Flavio Giordano</td>
<td>Sylvian cysts: endoscopic surgical technique</td>
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<td>14:30-14:45</td>
<td>Jose Hinojosa</td>
<td>Suprasellar cysts: endoscopic surgical technique</td>
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<td>14:45-15:00</td>
<td>Pietro Spennato</td>
<td>Interhemispheric cysts: endoscopic surgical technique</td>
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<td>15:00-15:15</td>
<td>Networking Break</td>
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<tr>
<td>15:15-17:00</td>
<td>LIVE DEMONSTRATION</td>
<td>ANATOMICAL MODELS: Tumor removal with Endoscopic Ultrasonic Aspirator</td>
<td>Giuseppe Cinalli</td>
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</table>
DAY 2 | ENDOVENTRICULAR SURGERY
Wednesday • April 7, 2021

08:00-10:45  SESSION 4: Endoscopy in Tumors and other Complex Pathologies
Chairpersons: Sergey Gorelyshev, Suresh Sankhla

08:00-08:15 Hisayuki Murai: Endoscopy in parenchymal haemorrhage
08:15-08:30 Alessandro Fiorindi: Endoscopy in intraventricular haemorrhage
08:30-08:45 Samer Elbabaa: ETV in spina bifida
08:45-09:00 Renato Galzio: Endoscope-assisted microsurgery in vascular surgery
09:00-09:15 Sandi Lam: Endoscopic callosotomy and hemispherotomy
09:15-09:30 Hans Delye: Endoscopic repair of craniosyndactyly
09:30-09:45 Carlo Giussani: ETV and posterior fossa tumors
09:45-10:00 Kenichi Nishiyama: ETV and tumor biopsy in pineal tumors: indications, technique
10:00-10:15 Memet Ozek: Tumor biopsy with normal ventricles
10:15-10:30 Li Chuzhong: Endoscopic treatment of pineal cysts
10:30-10:45 Henry Schroeder: Colloid cysts

10:45-11:00 Networking Break

11:00-12:15 VIDEO DEMONSTRATION | ANATOMICAL MODELS: Endoscopic removal of Intracerebral Hematoma
Instructor: Hisayuki Murai

12:15-12:30 Networking Break

12:30-14:15  SESSION 5: Craniopharyngiomas and other tumors
Chairperson: Kenichi Nishiyama

12:30-12:45 Giuseppe Cinalli: Craniopharyngiomas: ventricular approach
12:45-13:00 Alvaro Cordoba: Endoscope-assisted microsurgery in brain tumor
13:00-13:15 Sergey Gorelyshev: Endoscope-assisted microsurgery in craniopharyngiomas and suprasellar lesions
13:30-13:45 Manas Panigrahi: Tips and tricks in difficult ETV
13:45-14:00 Peng Zhao: Endoport technique in Intraventricular tumor
14:00-14:15 Kazuhiro Takeuchi: Cylinder tumor surgery

14:15-14:30 Networking Break

14:30-16:15 LIVE DEMONSTRATION | ANATOMICAL MODELS: Endoscopic removal of Intraventricular Hemorrhage in Prematures
Instructor: Ulrich-Wilhelm Thomale
08:30-10:30  SESSION 6: Endonasal approach to Sellar and Suprasellar areas  
Chairpersons: Paolo Cappabianca, Chandrashekhari Deopujari

08:00-08:15  Luigi Maria Cavallo & Giuseppe Cinalli: Welcome address and event presentation
08:15-08:30  Henry Schroeder & Paolo Cappabianca: Welcome addresses of IFNE President and SINCH President
08:30-08:45  Domenico Solari: Endoscopic endonasal approach: history and evolution
08:45-09:00  Javier Abarca Olivas: Endoscopic endonasal anatomy of the skull base
09:00-09:15  Gabriel Zada: Endonasal approach for pituitary adenomas
09:15-09:30  Luigi Maria Cavallo: Endonasal approach for craniopharyngiomas
09:30-09:45  Diego Mazzatenta: Endonasal approach to Cavernous Sinus
09:45-10:00  Gianluigi Zona: Endonasal approach for rare sellar lesions
10:00-10:15  Emmanuel Jouanneau: Endonasal approach for cystic sellar lesions
10:15-10:30  Waleed Azab: Lights and shadows of the endoscopic technique for giant adenomas

10:30-10:45  Networking Break

10:45-13:30  LIVE DEMONSTRATION | ANATOMICAL MODELS: Sellar & Anterior Skull base  
Instructors: Luigi Maria Cavallo, Domenico Solari

13:30-13:45  Networking Break

13:45-15:15  SESSION 7: Endonasal and extended approaches  
Chairpersons: Luigi Maria Cavallo, Michaël Bruneau, Songbai Gui

13:45-14:00  Paul Gardner: Endonasal approaches for TSM meningiomas
14:00-14:15  Theodore Schwartz: Endonasal approach for OG meningiomas: pros and cons
14:15-14:30  Michaël Bruneau: Minimally invasive approaches for ACF meningiomas
14:30-14:45  James Evans: The role of endoscope in malignant skull base lesions
14:45-15:00  Juan Fernandez-Miranda: Endonasal approaches to paramedian skull base
15:00-15:15  Paolo Castelnuovo: The transmaxillary window to the skull base

15:15-15:30  Networking Break

15:30-16:15  VIDEO SESSION: A peculiar case of sellar-suprasellar lesion removed via endoscopic endonasal approach  
Chairpersons: Francesco Doglietto, Matteo de Notaris
Speakers: Speakers: Songbai Gui, Matteo de Notaris, Elena D’Avella, Gabriel Zada, Mateus Dal Fabbro
08:30–10:30  **SESSION 8: Endoscopy in skull base surgery**  
Chairpersons: **Henry Schroeder, Marco Maria Fontanella**  
08:30–08:45  **Andre Grotenhuis**: *Endoscopic assisted skull base surgery*  
08:45–09:00  **Francesco Zenga**: *Neuronavigation for skull base approaches*  
09:00–09:15  **Yazhuo Zhang**: *Endonasal approaches for chordomas*  
09:15–09:30  **Sebastien Froelich**: *Skull base approaches for chordomas*  
09:30–09:45  **Marco Maria Fontanella**: *Endoscopic supraorbital approach*  
09:45–10:00  **Henry Schroeder**: *The value of the endoscope in CP angle surgery*  
10:00–10:15  **Filippo Flavio Angileri**: *The value of the endoscope in intracerebral lesions*  
10:15–10:30  **Chandrashekhar Deopujari**: *Complications of skull base surgery*  
10:30–10:45  Networking Break  

10:45–13:30  **LIVE DEMONSTRATION | ANATOMICAL MODELS: Clivus and Paramedian Skull base**  
Instructors: **Luigi Maria Cavallo, Domenico Solari**  

13:30–13:45  Networking Break  

13:45–15:30  **SESSION 9: Transorbital and other approaches**  
Chairpersons: **Antonino Germano, Salman Sharif**  
13:45–14:00  **Alberto Di Somma**: *Anatomy of the transorbital corridors*  
14:00–14:15  **Davide Locatelli**: *Endoscopic Transorbital approaches*  
14:15–14:30  **James K. Liu**: *Endoscopic approaches to skull base in pediatric pts*  
14:30–14:45  **Domenico Solari**: *Tips and tricks for skull base reconstruction*  
14:45–15:00  **Daniel Kelly**: *Supraorbital vs Endonasal corridors in ASB surgery*  

**SPECIAL LECTURE**  
15:00–15:30  **Amin B. Kassam**: *Exoscope and neurosurgery*  
Introduced by **Paolo Cappabianca**  

15:30–15:45  Networking Break  

15:45–16:45  **VIDEO SESSION: The transorbital and supraorbital corridors**  
Chairpersons: **Davide Locatelli, Felice Esposito**  
Speakers: **Doo-Sik Kong, Davide Locatelli, Sebastien Froelich, Henry Schroeder, Iacopo Dallan**
# DAY 5 | SPINAL ENDOSCOPY

## Saturday • April 10, 2021

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<th>Panelists</th>
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<td><strong>SESSION 10: General Spine Endoscopy</strong></td>
<td>Shrinivas Rohidas, Benedikt Burkhardt</td>
<td><strong>Mehmet Zileli, Hansjörg Leu, Joachim Oertel</strong></td>
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<tr>
<td>08:00-08:05</td>
<td>Welcome Address</td>
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<tr>
<td>08:05-08:20</td>
<td>Mehmet Zileli: <em>Philosophy of minimally invasive spine surgery</em></td>
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<tr>
<td>08:20-08:35</td>
<td>Hansjörg Leu: <em>History of Spine Endoscopy</em></td>
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<td>08:35-08:50</td>
<td>Joachim Oertel: <em>Concepts of spine endoscopy: tube based versus percutaneous</em></td>
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<td>08:50-09:10</td>
<td>Giovanni Miccoli: Case presentation</td>
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<td>09:10-10:15</td>
<td><strong>SESSION 11: Tube based techniques: Lumbar</strong></td>
<td>Mehmet Zileli, Joachim Oertel</td>
<td><strong>Salman Sharif, Benedikt Burkhardt, Stefan Linsler</strong></td>
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<tr>
<td>09:10-09:25</td>
<td>Salman Sharif: <em>Endoscopic Interlaminar Approach</em></td>
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<td>09:25-09:40</td>
<td>Benedikt Burkhardt: <em>Intralaminar Fenestration</em></td>
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<td>09:40-09:55</td>
<td>Stefan Linsler: <em>Decompression in Lumbar Stenosis</em></td>
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<td>09:55-10:15</td>
<td>Giovanni Miccoli: Case presentation</td>
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<td>10:15-10:30</td>
<td>Networking Break</td>
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<td>10:30-11:40</td>
<td><strong>SESSION 12: Percutaneus Techniques: Lumbar</strong></td>
<td>Salman Sharif, Erwin Cornips</td>
<td><strong>Thomas Lübbers, Sait Naderi, Christoph Tschan</strong></td>
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<tr>
<td>10:30-10:45</td>
<td>Thomas Lübbers: The Spine TIP System</td>
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<td>10:45-11:00</td>
<td>Sait Naderi: Percutaneous Endoscopic Lumbar Discectomy</td>
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<td>11:00-11:15</td>
<td>Christoph Tschan: Transforaminal approach for Discitis</td>
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<td>11:15-11:40</td>
<td>Giovanni Miccoli: Case presentation</td>
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<td>11:40-13:00</td>
<td><strong>SESSION 13: Various Endoscopic Techniques</strong></td>
<td>Christoph Tschan, Stefan Linsler</td>
<td><strong>Arman Hakobyan, Shrinivas Rohidas, Erwin Cornips, Nikolay Peev</strong></td>
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<td>11:40-11:55</td>
<td>Arman Hakobyan: Disc Hernia - Transforaminal vs Interlaminar</td>
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<td>11:55-12:10</td>
<td>Shrinivas Rohidas: 3D Endoscope in Endoscopic Spine Surgery</td>
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<td>12:10-12:25</td>
<td>Erwin Cornips: Thorascoscopic surgery for thoracic disc prolapse</td>
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<td>12:25-12:40</td>
<td>Nikolay Peev: Complications of the Endoscopic Surgery</td>
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<td>12:40-13:00</td>
<td>Giovanni Miccoli: Case presentation</td>
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<tr>
<td>13:00-13:15</td>
<td>Farewell</td>
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</table>
The Organizing Committee would like to thank the following company for the support of the Workshop:

Medtronic
During the six decades of Medtronic existence, our Mission has remained the same: to alleviate pain, restore health, and extend life for people around the world. We are a technology company deeply rooted in pushing the limits of innovation, and we have worked hard to be at the forefront of medical technology development, reinvention and disruption — challenging ourselves to create high-quality therapies that positively impact people’s lives. And we have accomplished a lot: today more than 75 million people benefit from our technologies each year, equating to more than two people every second.
Workshop on Neuroendoscopy:
A comprehensive overview on endoscopy of the brain, skull base and spine with live procedures and dissection

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