Organised by

International Federation of Neuroendoscopy

Under the patronage of

International Federation of NeuroEndoscopy (IFNE)
Japanese Society for NeuroEndoscopy (JSNE)
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Neuroendoscopy Society-India (NESI)
World Federation of Neurosurgical Societies - Neuroendoscopy Committee (WFNS)
Società Italiana di Neurochirurgia (SINCH)
Chinese Society for NeuroEndoscopy (CSNE)

In collaboration with

Antonio Cardarelli

IFNE-JSNE-GLEN-NESI-CSNE
Hands-on Workshop on
CEREBRAL, VENTRICULAR AND SKULL BASE NEUROENDOSCOPY

Naples, Italy

February 12-16, 2024

Workshop Venue
Centro di Biotecnologie - A.O.R.N. "Antonio Cardarelli"

PROGRAM

www.ifneworkshop.org

International Federation of Neuroendoscopy

IFNE

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11th IFNE

world congress of neuroendoscopy

14 - 17 September 2025

Graz, Austria

ERASMUS Conferences & Events

IFNE Administrative Secretariat &
Congress Organizing Bureau
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Mobile application

Scan the below QR code using your Android or iOS device. Download the application. When you are prompted for a code upon launching the App, insert **ifneworkshop2024**.

The App may be used without logging in. If you do decide to log in, you will be able to use some additional features, such as messaging other attendees (having consent to) and your personalized agenda.
In order to log in, tap the **Log In** icon and insert your email address and the **4-digit PIN** that you can see on your badge.

Available on the App Store

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Welcome Message

Dear friends and colleagues,

It is a great honor and pleasure to welcome you to the
2024 IFNE- JSNE- GLEN- NESI-CSNE Hands-on Workshop on Cerebral,
Ventricular and Skull Neuroendoscopy, taking place in Naples-Italy from 12 to 16 February 2024.

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), The European Association of Neurosurgical Societies (EANS) and World Federation of Neurosurgical Societies (WFNS). A special thanks goes to Centro di Biotecnologie A.O.R.N." Antonio Cardarelli" that helps the realization of our event for another year. Thanks to extensive works of enlargement of working surfaces in the hands-on area, we will be able to offer excellent social distancing during hands-on still maintaining a good number of trainees (40) for 20 working stations.

As usual, enthusiastic faculty participation will allow the excellent Tutor/Trainees ratio of 1x2 confirming the presence of a world expert at each hands-on workstation for two trainees. 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 ventricular endoscopy, cerebral endoscopy and skull base endoscopy delivered by world-renowned international faculty. Our 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.

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,

Prof. Giuseppe Cinalli
Chair of the Organizing Committee

Prof. Luigi Maria Cavallo
Co-Chair of the Organizing Committee

Prof. Alvaro Cordoba
IFNE President 2023-2025

Organization

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International Federation of Neuroendoscopy

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Antonio Cardarelli
AZIENDA OSPEDALIERA DI RILIEVO NAZIONALE

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World Federation of Neurosurgical Societies (WFNS) Neuroendoscopy Committee

Neuroendoscopy Society - India (NESI)

Società Italiana di Neurochirurgia (SINCH)

Local Organizing Committee

Chair: **Giuseppe Cinalli**

Co-Chair: **Luigi Maria Cavallo**

IFNE Administrative Secretariat & Workshop Organizing Bureau

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Invited Faculty

Azab Waleed, *Kuwait*
Bruneau Michaël, *Belgium*
Caceres Adrian, *Costa Rica*
Cappabianca Paolo, *Italy*
Carrabba Giorgio, *Spain*
Cavallo Luigi Maria, *Italy*
Cinalli Giuseppe, *Italy*
Cordoba Alvaro, *Uruguay*
Da Cunha Artur Henrique Galvão Bruno, *Brazil*
De Notaris Matteo Gabriele, *Spain*
Di Rocco Federico, *France*
Di Somma Alberto, *Spain*
Esposito Felice, *Italy*
Felleti Alberto, *Italy*
Fontanella Marco Maria, *Italy*
Gellner Verena, *Austria*
Gorelyshev Sergey, *Russia*
Gui Songbai, *China*
Guzman Raphael, *Switzerland*
Hecht Nils, *Germany*
Herrada-Pineda Tenoch, *Mexico*
Hinojosa Jose, *Spain*
Iaccarino Corrado, *Italy*
Jouanneau Emmanuel, *France*
Lam Sandi, *USA*
Lechanoine Francois, *France*
Medvedeva Olga, *Russia*
Meling Torstein, *Norway*
Minniti Giuseppe, *Italy*
Mirone Giuseppe, *Italy*
Miwa Tomoru, *Japan*
Monserrat Almaguer Ascencio, *México*
Mukesch Shah, *Germany*
Murai Hisayuki, *Japan*
Navarrete Esperanza Arcas, *Spain*
Onorini Nicola, *Italy*
Oppido Piero Andrea, *Italy*
Özek Memet, *Turkey*
Padayachy Llewellyn, *South Africa*
Pennacchietti Valentina, *Italy*
Peraio Simone, *Italy*
Ponce de Leon Fernando Chico, *Mexico*
Procaccini Emiddio, *Italy*
Sala Francesco, *Italy*
Santos De Oliveira Ricardo, *Brazil*
Savic Dragan, *Serbia*
Schroeder Henry, *Germany*
Seow Wan Tew, *Singapore*
Sgouros Spyros, *Greece*
Signorelli Francesco, *Italy*
Solari Domenico, *Italy*
Spennato Pietro, *Italy*
Stanimirovic Aleksandar, *Serbia*
Takeuchi Kazuhito, *Japan*
Tamburrini Gianpiero, *Italy*
Zebian Bassel, *United Kingdom*
Zhang Yazhuo, *China*
Zhao Peng, *China*

General Information

Venue

Centro di Biotecnologie - A.O.R.N. "Antonio Cardarelli"
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Compliance

The IFNE- JSNE- GLEN- NESI-CSNE Hands-on Workshop on Cerebral, Ventricular and Skull Base Neuroendoscopy, Naples, Italy, 12-16 February 2024 has been compliant with the MedTech Europe Code of Ethical Business Practice.

Name Badges

Registration badges will be used during the Workshop. Participants will receive their badges upon check-in at the Registration Desk. For identification purposes and admission to session halls, participants are requested to wear their badges at all times. Admission to Workshop areas will not be allowed without badge identification.
Important note: In order to obtain CME credits, delegates are requested to check-in at the Workshop Secretariat.

Accreditation

The IFNE-JSNE-GLEN-NESI-CSNE Hands-on Workshop on CEREBRAL, VENTRICULAR AND SKULL BASE NEUROENDOSCOPY - Basic Techniques, Naples, Italy 12/02/2024 - 14/02/2024 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **23.5** European CME credits (ECMEC®s).

The IFNE-JSNE-GLEN-NESI-CSNE Hands-on Workshop on CEREBRAL, VENTRICULAR AND SKULL BASE NEUROENDOSCOPY - Advanced Skull Base , Naples, Italy 15/02/2024 - 16/02/2024, has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **16.0** 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 https://edhub.ama-assn.org/pages/applictations .

Live educational activities, occurring outside of Canada, recognized 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.

General Information

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

Certificate of Attendance
All registered delegates having attended the Workshop will receive an electronic Certificate of Attendance by e-mail.

Coffee and Lunch Breaks
Coffee and Lunch Breaks will be served in the designated venue areas according to the Workshop schedule.

Insurance
Neither the Organizing Committee nor the Workshop Secretariat accepts any liability for damages and/or loss of any kind which may incur to Workshop participants throughout Workshop dates. Participation is at one's own risk. Participants are advised to take out insurance against losses, accidents or damage that could be incurred during the Workshop. Verbal agreements will not be binding unless confirmed in written.

Internet access
Wireless internet connection is available in all Workshop areas.

Photography, Filming and Video Recordings
Please note, by registering for the workshop, you agree to your image and personal information being passed to the Organizing Secretariat and being used in materials, either online or in hard copy, for publicity and promotional purposes.

On-site Secretariat Desk
The Secretariat Desk will be operating at the venue during Workshop dates as follows:

Monday, February 12, 2024	07:30-18:30
Tuesday, February 13, 2024	07:30-18:30
Wednesday, February 14, 2024	07:30-18:30
Thursday, February 15, 2024	07:30-17:30
Friday, February 16, 2024	08:00-17:30

PROGRAM OVERVIEW

CEREBRAL AND VENTRICULAR NEUROENDOSCOPY

Monday • February 12, 2024 / Endoscopic 3rd, ventriculostomy and septostomy — BASIC TECHNIQUES

Time	Main Hall	Rooms 1-2-3-4
08:00-10:20	SESSION 1: Instruments - Anatomy - Applied technologies (available during hands-on)	
10:20-11:20	SESSION 2: ETV	
11:20-11:50	Coffee Break	
11:50-13:00		Hands-on | Anatomical and Animal models
13:00-14:00	Lunch Break | Video presentation of the Synaptive navigating exoscope (TEKIM)	
14:00-16:30		Hands-on | Anatomical and Animal models
16:30-16:45	Coffee Break	
16:45-17:30	SESSION 3: ETV & Septostomy	
17:30-18:15	SESSION 4: Clinical Cases | ETV & Septostomy	

Tuesday • February 13, 2024 / Complex hydrocephalus — ADVANCED TECHNIQUES

Time	Main Hall	Rooms 1-2-3-4
08:00-10:15	SESSION 5: Complex Hydrocephalus	
10:15-11:30	SESSION 6: Arachnoid cysts	
11:30-11:50	Coffee Break	
11:50-13:00		Hands-on | Anatomical and Animal models
13:00-14:00	Lunch Break	
14:00-15:00	Presentation of the model of internal carotid artery rupture during transsphenoidal surgery	
15:00-16:30		Hands-on | Anatomical and Animal models
16:30-16:45	Coffee Break	
16:45-18:15	SESSION 7: Clinical Cases: Complex Hydrocephalus and Arachnoid Cysts & Video Session	

Wednesday • February 14, 2024 — ADVANCED TECHNIQUES

Time	Main Hall	Rooms 1-2-3-4
08:00-09:30	SESSION 8: Different indications	
09:30-10:30	SESSION 9: Endoscopy in tumor management	
10:30-11:40	SESSION 10: Craniopharyngiomas - Miscellaneous	
11:40-12:00	Coffee Break	
12:00-13:00		Hands on-Anatomical and Animal models
13:00-14:00	Lunch Break | Site visit of 8 pre-recorded trainees to see the navigated Exoscope at Federico II University	
14:00-16:30		Hands-on | Anatomical and Animal models
16:30-16:45	Coffee Break	
16:45-18:15	SESSION 11: Clinical Cases: Endoscopic Tumor Surgery & Video Session	

ADVANCED SKULLBASE SEGMENT

Thursday • February 15, 2024 — Endoscopic Approaches to Sellar region and cavernous sinus

Time	Main Hall	Rooms 1-2-3-4
08:00-08:15	Welcome and event presentation	
08:15-10:00	SESSION 12: Endoscopic Endonasal approach to Sellar Region and Cavernous Sinus	
10:00-10:15	Networking Break	
10:15-13:15		Hands-on | Cadaveric Specimens
13:15-13:45	Lunch Break	
13:45-16:00		Hands-on | Cadaveric Specimens
16:00-16:15	Coffee Break	
16:15-17:15	SESSION 13: Advanced Endoscopic approaches to Skull base	

Friday • February 16, 2024 — Extended Endoscopic Approaches and trans-orbital approaches

Time	Main Hall	Rooms 1-2-3-4
08:30-10:15	SESSION 14: Miscellaneous	
10:15-10:30	Networking Break	
10:30-13:30		Hands-on | Cadaveric Specimens
13:30-14:00	Lunch Break	
14:00-16:15		Hands-on | Cadaveric Specimens
16:15-16:30	Coffee Break	
16:30-17:25	SESSION 15: Video & Clinical cases	
17:30	Adjourn	

Detailed Scientific Program

BASIC TECHNIQUES

Monday • February 12, 2024 / Endoscopic 3rd ventriculostomy and septostomy

08:00-10:20 **SESSION 1: Instruments – Anatomy – Applied technologies** — Main Hall

(available during hands-on)

Chairpersons: **Giuseppe Cinalli, Wan Tew Seow**

08:00-08:05 **Paolo Cappabianca**: *Welcome from the President of the SINCH*
08:05-08:10 **Giuseppe Cinalli**: *Organisation and objectives of the course*
08:10-08:20 **Giuseppe Mirone**: *Endoscope: basic principles and instrumentation*
08:25-08:35 **Corrado Iaccarino**: *Neuronavigation and Neuroendoscopy*
08:40-08:50 **Piero Andrea Oppido**: *Laser in Neuroendoscopy*
08:55-09:05 **Bassel Zebian**: *Ultrasonic aspirator in Neuroendoscopy*
09:10-09:20 **Giorgio Carrabba**: *3D EXoscopy*
09:25-09:35 **Emiddio Procaccini**: *Robot assisted Neuroendoscopy*
09:40-09:50 **Giuseppe Mirone**: *Stealth Autoguide Robotic system*
09:55-10:05 **Nils Hecht**: *Minimally Invasive Endoscopic Evacuation of Intracerebral Hematomas*

10:20-11:20 **SESSION 2: ETV** — Main Hall

Chairperson: **Sergey Gorelyshev**

10:20-10:30 **Monserrat Almaguer Ascencio**: *Preoperative evaluation of hydrocephalus*
10:35-10:45 **Giorgo Carrabba**: *ETV: Indications*
10:50-11:00 **Esperanza Arcas Navarrete**: *ETV: Surgical technique*
11:05-11:15 **Tenoch Herrada-Pineda**: *ETV: Complications avoidance*

11:20-11:50 Coffee Break

11:50-13:00 **Hands on-Anatomical and Animal models** — Rooms 1-2-3-4

13:00-14:00 Lunch Break | Video presentation of the Synaptive navigating exoscope (TEKIM)

14:00-16:30 **Hands on-Anatomical and Animal models** — Rooms 1-2-3-4

16:30-16:45 Coffee Break

16:45-17:30 **SESSION 3 ETV & SEPTOSTOMY** — Main Hall

Chairperson: **Adrian Caceres**

16:45-16:55 **Ricardo Santos de Oliveira**: *ETV: long-term results*
17:00-17:10 **Llewellyn Padayachy**: *ETV + CPC*
17:15-17:25 **Adrian Caceres**: *Septostomy: indications and surgical technique*

17:30-18:15 **SESSION 4: CLINICAL CASES | ETV & Septostomy** — Main Hall

Instructors: **Adrian Caceres, Bassel Zebian, Ricardo Santos de Oliveira**

Each instructor presents 3 cases and is allotted 15'.

ADVANCED TECHNIQUES

Tuesday • February 13, 2024 / Complex hydrocephalus

08:00-10:15 **SESSION 5: Complex Hydrocephalus** — Main Hall

Chairperson: **Memet Özek**

08:00-08:10 **Gianpiero Tamburrini**: *Multiloculated hydrocephalus: classification / radiology*
08:15-08:25 **Simone Peraio**: *Multiloculated hydrocephalus: surgical techniques*
08:30-08:40 **Nicola Onorini**: *ETV and shunt malfunction*
08:45-08:55 **Mukesch Shah**: *Aspiration of cerebral parenchymal hematomas using the Penumbra system*
09:00-09:10 **Valentina Pennacchietti**: *Ventricular washing in PHH in prematures*
09:15-09:25 **Artur da Cunha**: *Choroid plexus coagulation: indications, technique, results* (video presentation)
09:30-09:40 **Tenoch Herrada-Pineda**: *Neurocysticercosis*
09:45-09:55 **Fernando Chico Ponce de Leon**: *Endoscopic treatment of brain abscess and ventriculitis*
10:00-10:10 **Federico di Rocco**: *ETV and posterior fossa tumors*

10:15-11:30 **SESSION 6: Arachnoid cysts** — Main Hall

Chairperson: **Sergey Gorelyshev**

10:15-10.25 **François Lechanoine**: *Arachnoid cysts: classification and radiology*
10:30-10:40 **Olga Medvedeva**: *Sylvian cysts: endoscopic surgical technique*
10:45-10:55 **Memet Özek**: *Suprasellar cysts: endoscopic surgical technique*
11:00-11:10 **Pietro Spennato**: *Interhemispheric cysts: endoscopic surgical technique*
11:15-11:25 **Giuseppe Mirone**: *Posterior fossa cysts: endoscopic surgical technique*

11:30-11:50 Coffee Break

11:50-13:00 **Hands on-Anatomical and Animal models** — Rooms 1-2-3-4

13:00-14:00 Lunch Break

14:00-15:00 **Kazuhito Takeuchi & Miwa Tomoru:** *Presentation of the model of internal carotid artery rupture during transsphenoidal surgery* — Rooms 1-2-3-4

15:00-16:30 **Hands on-Anatomical and Animal models** — Rooms 1-2-3-4

16:30-16:45 Coffee Break

16:45-18:15 **SESSION 7: CLINICAL CASES | Complex Hydrocephalus and Arachnoid Cysts** — Main Hall

Chairperson: **Spyros Sgouros**
Instructors: **Memet Özek, Wan Tew Seow, Ricardo Santos de Oliveira**
Each instructor presents 3 cases and is allotted 15'.

17:30-18:15 **VIDEO SESSION | Complex hydrocephalus**

Chairperson: **Gianpiero Tamburrini**
Instructors: **Olga Medvedeva, Monserrat Almaguer Ascencio**
Each instructor presents 3 videos and is allotted 15'.

CEREBRAL AND VENTRICULAR NEUROENDOSCOPY

ADVANCED TECHNIQUES

Wednesday • February 14, 2024

08:00-09:30 **SESSION 8: Different indications** — Main Hall

Chairperson: **Alvaro Cordoba**

08:00-08:10 **Hisayuki Murai**: *Endoscopy in parenchymal haemorrhage*
08:15-08:25 **Alberto Feletti**: *Endoscopy in intraventricular haemorrhage*
08:30-08:40 **Alvaro Cordoba**: *Endoscope-assisted microsurgery in brain tumors*
08:45-08:55 **Henry Schroeder**: *Endoscope-assisted microsurgery in vascular surgery*
09:00-09:10 **Sandi Lam**: *Endoscopic callosotomy and hemispherotomy*
09:15-09:25 **José Hinojosa**: *Endoscopic repair of craniosynostosis* (video presentation)

09:30-10:30 **SESSION 9: Endoscopy in tumor management** — Main Hall

Chairperson: **Henry Schroeder**

09:30-09:40 **Hisayuki Murai**: *ETV in pineal tumors: indications, technique*
09:45-09:55 **Miwa Tomoru**: *Tumor biopsy / removal: surgical technique*
10:00-10:10 **Piero Spennato**: *Tumor biopsy with normal ventricles*
10:15-10:25 **Sergey Gorelyshev**: *Endoscope-assisted microsurgery in craniopharyngiomas and suprasellar lesions*

10:30-11:40 **SESSION 10: Craniopharyngiomas – Miscellaneous** — Main Hall

Chairperson: **Sandi Lam**

10:30-10:40 **Kazuhito Takeuchi**: *Cylinder tumor surgery*
10:45-10:55 **Henry Schroeder**: *Colloid cyst*
11:00-11:10 **Henry Schroeder**: *Dryfield technique in intraventricular surgery*
11:15-11:25 **Hisayuki Murai**: *Craniopharyngiomas: ventricular approach*
11:30-11:40 **Sandi Lam**: *Endoscopic Eyebrow approach*

11:40-12:00 Coffee Break

12:00-13:00 **Hands on-Anatomical and Animal models** — Rooms 1-2-3-4

13:00-14:00 Lunch Break | Site visit of 8 pre-recorded trainees to see the navigated Exoscope at Federico II University

14:00-16:30 **Hands on-Anatomical and Animal models** — Rooms 1-2-3-4

16:30-16:45 Coffee Break

16:45-18:15 **SESSION 11: CLINICAL CASES: ENDOSCOPIC TUMOR SURGERY & VIDEO SESSION** — Main Hall

Chairperson: **Spyros Sgouros**

16:45-17:25 **Peng Zhao**: *Endoport technique in Intraventricular tumor* (video presentation)

17:30-18:15 **VIDEO SESSION | Endoscopic Tumor surgery**

Instructors: **Sandi Lam, Alberto Feletti, Sergey Gorelyshev**

Each instructor presents 3 videos and is allotted 15'.

Thursday • February 15, 2023

Endoscopic Approaches to Sellar region and cavernous sinus

08:00-08:15 **Welcome and event presentation** — Main Hall
Giuseppe Cinalli, Luigi Maria Cavallo, Paolo Cappabianca

08:15-10:00 **SESSION 12: Endoscopic Endonasal approach to Sellar Region and Cavernous Sinus** — Main Hall
Chairperson: **Michale Bruneau**

08:15-08:25 **Torstein Meling**: *Evolution of skull base approaches*
08:30-08:40 **Francesco Sala** : *Intraoperative monitoring for skull base surgery*
08:45-08:55 **Domenico Solari**: *Endonasal approach for pituitary adenomas*
09:00-09:10 **Luigi Maria Cavallo**: *Endonasal approach for craniopharyngiomas*
09:15-09:25 **Raphael Guzman**: *Surgical management of cystic craniopharyngiomas*
09:30-09:40 **Waleed Azab**: *Endonasal approach for rare sellar lesions*

10:00-10:15 Networking Break

10:15-13:15 **Hands-on Cadaveric Specimens** — Rooms 1-2-3-4

13:15-13:45 Lunch Break

13:45-16:00 **Hands-on Cadaveric Specimens** — Rooms 1-2-3-4

16:00-16:15 Coffee break

16:15-17:15 **SESSION 13: Advanced Endoscopic approaches to Skull base** — Main Hall
Chairperson: Emmanuel Jouanneau

16:15-16:25 **Luigi Maria Cavallo**: *Endonasal approaches for ASB meningiomas*
16:30-16:40 **Michael Bruneau**: *Minimally invasive approaches for ACF meninigiomas*
16:45-16:55 **Emmanuel Jouanneau**: *Transcranial and endonasal route for Trigeminal Schwannomas*
17:00-17:10 **Francesco Signorelli**: *The value of the endoscope in MVD*

Friday • February 16, 2024

Extended Endoscopic Approaches and trans-orbital approaches

08:30-10:15 **SESSION 14: Miscellaneous** — Main Hall

Chairpersons: **Luigi Maria Cavallo, Dragan Savic**

08:30-08:40 **Aleksandar Stanimirovic**: *The seed of endoscopic endonasal surgery at Clinical Center of Serbia*
08:45-08:55 **Yazhuo Zhang**: *Endonasal approaches for clival chordomas*
09:00-09:10 **Verena Gellner**: *Complications of endonasal skull base surgery*
09:15-09:25 **Marco Maria Fontanella**: *Endoscopic supraorbital approach*
09:30-09:40 **Matteo de Notaris**: *Transorbital eyelid approach. Anatomy*
09:45-09:55 **Alberto Di Somma**: *Transorbital eyelid approach. Basic principles of surgery*
10:00-10:10 **Felice Esposito**: *Tips and tricks for skull base reconstruction*

10:15-10:30 Networking Break

10:30-13:30 **Hands-on Cadaveric Specimens** — Rooms 1-2-3-4

13:30-14:00 Lunch Break

14:00-16:15 **Hands-on Cadaveric Specimens** — Rooms 1-2-3-4

16:15-16:30 Coffee Break

16:30-17:25 **SESSION 15** — Main Hall

Chairperson: **Waleed Azab**

16:30-16:40 **Giuseppe Minniti**: *Radiotherapy for Skull base tumors*
16:45-16:55 **Songbai Gui**: *Personal experience in skull base reconstruction (video presentation)*
17:00-17:25 Video Session: **Waleed Azab**, **Sonbai Gui** (VIDEO PRESENTATION REMOTE), **Domenico Solari**, **Matteo de Notaris**, **Alberto di Somma**

Case discussion & video presentation (faculty and attendees)

17:30 **Adjourrn**

Sponsors
Acknowledgements

The Organizing Committee would like to thank the following companies for their support of the Workshop:

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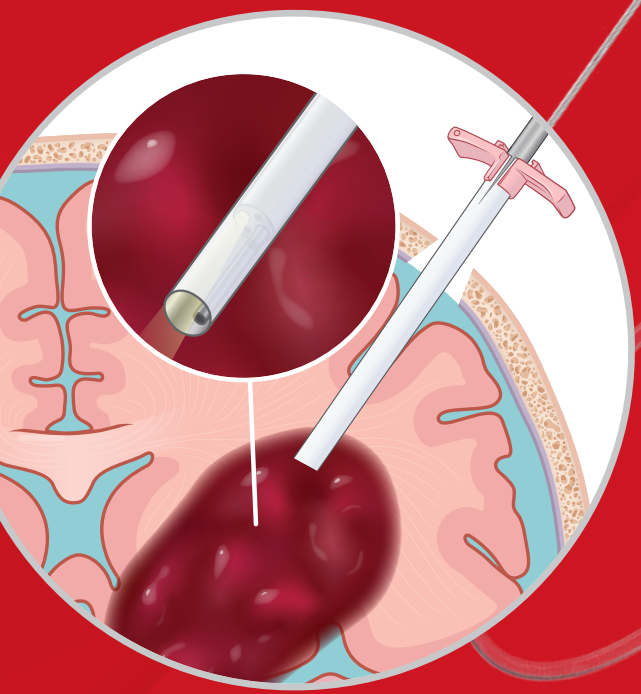

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1. Kellner CP, Song R, Pan J, et al. Long-term functional outcome following minimally invasive endoscopic intracerebral hemorrhage evacuation. *Journal of NeuroInterventional Surgery* 2020;12:489-494.

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The ARTEMIS Neuro Evacuation Device is used for the controlled aspiration of tissue and/or fluid during surgery of the Ventricular System or Cerebrum for patients age 18 or older in conjunction with a Penumbra Aspiration Pump.

Penumbra Aspiration Pump:
The Penumbra Aspiration Pump is indicated as a vacuum source for the Penumbra Aspiration Systems.

Potential Adverse Events
Possible complications include, but are not limited to, the following: hematoma expansion, fever, headaches, vomiting, hyperglycemia, edema, re-bleeding, death, bleeding, increased blood pressure, infections, seizures, intraventricular hemorrhage, hydrocephalus, thromboembolic events, decreased consciousness, craniotomy, unintended removal of tissue leading to neurological and/or sensory deficit.

Penumbra Pump MAX – Intended Use
The Penumbra Pump MAX is intended as a vacuum source for the Penumbra Aspiration Systems.

Product availability varies by country. Rendering for illustrative purposes only. Individual results may vary depending on patient-specific attributes and other factors. Please contact your local Penumbra representative for more information.

Penumbra

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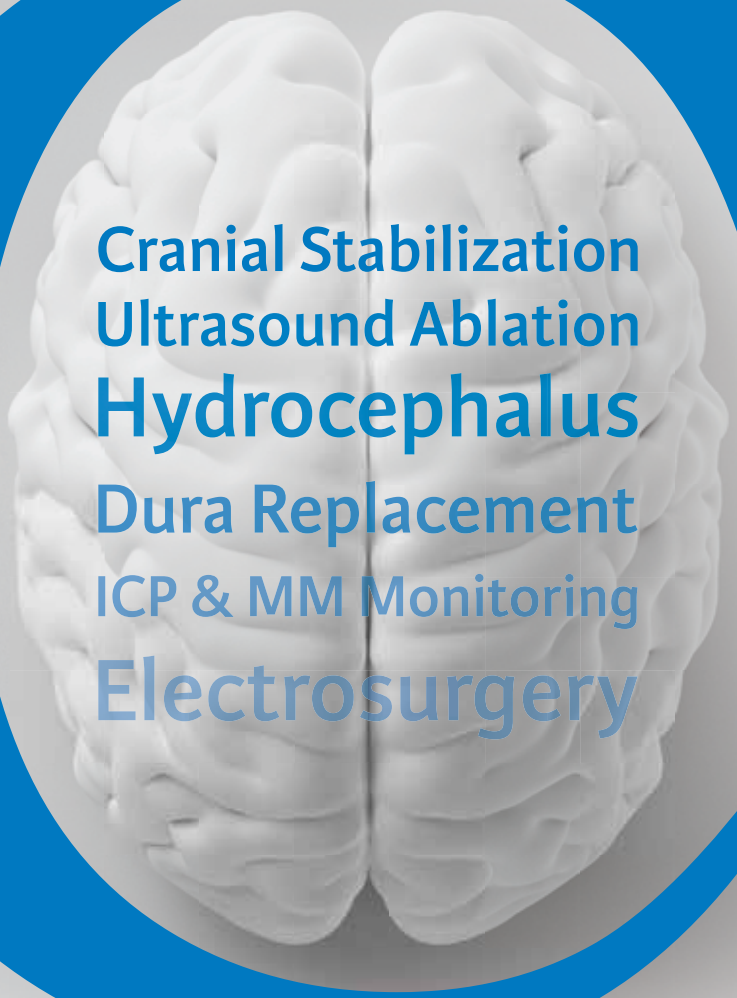

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