



International
Federation
of Neuroendoscopy

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Under the patronage of:

- International Federation of NeuroEndoscopy (IFNE)
- Japanese Society for NeuroEndoscopy (JSNE)
- Grupo Latinoamericano de Estudios en Neuroendoscopia (GLEN)
- Indian Society for Neuroendoscopy (ISNE)
- European Society for Pediatric Neurosurgery (ESPN)
- World Federation of Neurosurgical Societies - Neuroendoscopy Committee (WFNS)
- Società Italiana di Neurochirurgia (SINCh)
- Chinese Society for NeuroEndoscopy (CSNE)

For the first time under
the patronage of the
**Chinese Society for
NeuroEndoscopy**

IFNE-JSNE-GLEN-ISNE-CSNE Hands-on Workshop on CEREBRAL AND VENTRICULAR NEUROENDOSCOPY

Naples, Italy
January 20-24, 2020



PROGRAM

JANUARY 20-21, 2020
Basic Techniques

JANUARY 22-24, 2020
Advanced Techniques



"Santobono-Pausilipon"
Children's Hospital



"Federico II"
University of Naples



Antonio Cardarelli
AZIENDA OSPEDALIERA DI RILIEVO NAZIONALE



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 **2024**.

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.





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Welcome Message



Dear Colleagues,

I am pleased to announce the realization of the joint IFNE- JSNE - GLEN- ISNE-CSNE Workshop on Cerebral and Ventricular Neuroendoscopy which for the first time this year is under the patronage of the Chinese Society of NeuroEndoscopy. The event takes place at the Center for Biotechnology, Antonio Cardarelli Hospital in Naples, Italy.

This is the main formative event of International Federation of NeuroEndoscopy (IFNE) in conjunction with the Latin-American Group of Study in Neuroendoscopy (GLEN) and the two largest and most active Neuroendoscopy Societies in the world, the Japanese Society for NeuroEndoscopy (JSNE) and the Indian Society for NeuroEndoscopy (ISNE).

This workshop has been designed to offer to the participants the best possible update on the status and development of intracerebral and intraventricular Neuroendoscopy by all the main experts in the world with the help of faculty members from the above cited societies. This goal has been reached through high level, highly focused lectures addressing all the pathologies that can be treated endoscopically, with special attention on indications, pre-op planning, surgical technique, tips & tricks and complication avoidance. Together with the lectures, participants are offered a very intensive, highly tutored hands-on training in all neuroendoscopic techniques. Twenty-four working stations fully equipped with the best possible technologies available (3D endoscopes, Thulium laser, Neuroendoscopic ultrasonic surgical aspirators, neuroendoscopy robots, endoscopeassisted microsurgery, endoscope assisted craniostomy surgery) are ruled by single world experts in the technique simulated at each working station, with a trainee/tutor ratio of 2/1 per working station, with several hours of continuous tutoring, from the most basic procedures through the most advanced technique, both on high-level anatomical models and living models.

Also, this year, we launched a dedicated own model training, with 3D printed multimaterial model of sagittal and metopic craniostomy in natural dimensions for intensive tutoring.

The Workshop is divided into two parts, accessible separately or together:

Basic Course (January 20-21, 2020): This course addresses the fundamentals of material and of the main basic techniques (ETV, Septostomy, arachnoid cysts). It includes 9 hours of hands-on training, with 30 tutors (tutor/trainee ratio 1:2) distributed on 24 working stations.

Advanced Course (January 22-24, 2020): This course addresses all the intermediate and most advanced



techniques (Complex hydrocephalus, Tumor Biopsy and removal, Intracerebral and intraventricular clot removal, Intraventricular lavage in preemies, Neurocysticercosis, Choroid plexus coagulation, Robotics, Endoscopic repair of craniosynostosis) allowing the use of the most updated worldwide technologies. It includes 14 hours of hands-on training with 47 tutors distributed on 24 fully equipped working stations (tutor/trainee ratio 1:1), each simulating different pathologies and techniques (hydrocephalus, intraventricular tumors, intracerebral hematoma, arachnoid cysts, craniosynostosis, robot guided neuroendoscopy). Lectures on instrumentation and arachnoid cysts will be performed in both courses by different speakers to favour trainees who register for a single course.

As you can see from the very intensive program, except social dinners very short time is left for other social events, but if you have chosen your hotel in the historical center of Naples you will live an authentic Neapolitan atmosphere, where “social” is nonsense word since the whole Neapolitan life is highly social in every manifestation. Enjoy the best (and real) pizzas in the world in the crowded and noisy pizzerias in the center, or fantastic dinner in refined restaurants by the sea, choose among several immense and world-renowned museums and many other attractions.

I am glad you have chosen to see personally how Neuroendoscopy is performed throughout the world by the most renowned experts in the field and I am confident that you will be able to learn and rapidly repeat all their techniques in a very intensive and short time thanks to the extensive and tutored hands-on work.

I am happy to welcome you in our fantastic and lively city and have the pleasure to meet you all in person.

Giuseppe Cinalli M.D.

Local Organizing Committee Chair

Past President, International Federation of Neuroendoscopy (IFNE)

Director, Department of Neurosciences

Director, Division of Pediatric Neurosurgery

Santobono-Pausilipon Children's Hospital, Naples, Italy

Organization & Committees

Organized by:



International
Federation
of Neuroendoscopy

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Under the patronage of:



Japanese Society for
Neuroendoscopy (JSNE)



European Society for Pediatric
Neurosurgery (ESPN)



Grupo Latinoamericano de Estudios
en Neuroendoscopia (GLEN)



Società Italiana di Neurochirurgia
(SINCH)



Indian Society for Neuroendoscopy
(ISNE)



Chinese Society for
NeuroEndoscopy (CSNE)



World Federation of Neurosurgical
Societies (WFNS)
Neuroendoscopy Committee

Local Organizing Committee

Chair: **Giuseppe Cinalli**

Members: **Serena dé Santi** **Giuseppe Mirone** **Claudio Ruggiero**
Giuliana Di Martino **Raffaele Stefano Parlato** **Pietro Spennato**
Alessia Imperato

IFNE Administrative Secretariat & Workshop Organizing Bureau



ERASMUS Conferences & Events S.A

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W. www.ifneworkshop.org | W. www.ifneuroendoscopy.org

E. info@ifneworkshop.org | E. info@ifneuroendoscopy.org



Invited Faculty

- Aliberti Ferdinando**, *Italy*
Arcas Navarrete Esperanza, *Spain*
Brusius Carlos, *Brazil*
Cáceres Adrian, *Costa Rica*
Cappabianca Paolo, *Italy*
Cavalheiro Sergio, *Brazil*
Cavallo Luigi Maria, *Italy*
Cenzato Marco, *Italy*
Chico-Ponce de Leon Fernando, *Mexico*
Chuzhong Li, *China*
Cinalli Giuseppe, *Italy*
Coelho Gisele, *Brazil*
Constantini Shlomi, *Israel*
Cordoba Alvaro, *Uruguay*
da Cunha Artur, *Brazil*
Delye Hans, *The Netherlands*
Deopujari Chandrashekar, *India*
Elbabaa Samer, *USA*
Fiorindi Alessandro, *Italy*
Gagliardi Carlos, *Argentina*
Galzio Renato J., *Italy*
Giordano Flavio, *Italy*
Gorelyshev Sergey, *Russia*
Gui Songbai, *China*
Herrada Pineda Tenoch, *Mexico*
Hinojosa Jose, *Spain*
Iaccarino Corrado, *Italy*
Imperato Alessia, *Italy*
Jaimovich Sebastian, *Argentina*
Lam Sandi, *USA*
Lechanoine François, *France*
Locatelli Davide, *Italy*
Medvedeva Olga, *Russia*
Morota Nobuhito, *Japan*
Murai Hisayuki, *Japan*
Nishiyama Kenichi, *Japan*
Oertel Joachim, *Germany*
Oppido Piero Andrea, *Italy*
Özek Memet, *Turkey*
Padayachy Llewellyn, *South Africa*
Panigrahi Manas, *India*
Parlato Raffaele Stefano, *Italy*
Pettorini Benedetta, *United Kingdom*
Procaccini Emidio, *Italy*
Ros-Lopez Bienvenido, *Spain*
Roth Jonathan, *Israel*
Ruggiero Claudio, *Italy*
Sankhla Suresh, *India*
Santos de Oliveira Ricardo, *Brazil*
Schroeder Henry, *Germany*
Seow Wan Tew, *Singapore*
Sgouros Spyros, *Greece*
Sharif Salman, *Pakistan*
Solari Domenico, *Italy*
Spennato Pietro, *Italy*
Takeuchi Kazuhito, *Japan*
Tamburrini Gianpiero, *Italy*
Thomale Ulrich-Wilhelm, *Germany*
Wolfsberger Stefan, *Austria*
Zebian Bassel, *United Kingdom*
Zhang Yazhuo, *China*
Zhao Peng, *China*

General Information

Venue

Centro di Biotecnologie – A.O.R.N. “Antonio Cardarelli”

9, Via Antonio Cardarelli, 80131 Naples, Italy

T./F. +39 081 7473433/-2037/-2158/-3526

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CME Accreditation

The IFNE- JSNE- GLEN- ISNE- CSNE Hands-on Workshop on Cerebral and Ventricular Neuroendoscopy – BASIC TECHNIQUES, Naples, Italy, 20/01/2020-21/01/2020 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **16 European CME credits** (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.



The IFNE- JSNE- GLEN- ISNE- CSNE Hands-on Workshop on Cerebral and Ventricular Neuroendoscopy – ADVANCED TECHNIQUES, Naples, Italy, 22/01/2020-24/01/2020 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 24 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/cme/uemseaccme-cme-credit-recognition.

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.

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 on a daily basis.

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.



General Information

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 loss, 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, January 20, 2020	07:30-18:30
Tuesday, January 21, 2020	08:00-19:00
Wednesday, January 22, 2020	08:00-17:15
Thursday, January 23, 2020	08:00-19:00
Friday, January 24, 2020	08:00-19:00

On-site registration

Category	Basic	Advanced
Delegate registration • Non-member	800 €	1.100 €
Delegate registration • IFNE/JSNE/GLEN/ISNE/ESPN/SINCH Member	700 €	1.000 €
Auditor registration	250 €	250 €
Auditor registration • Medical students	100 €	100 €
Delegate registration • Non-member • Advanced & Basic Techniques	1.650 €	
Delegate registration • IFNE/JSNE/GLEN/ISNE/ESPN/SINCH Member • Advanced & Basic Techniques	1.450 €	
Auditor registration • Advanced & Basic Techniques	500 €	
Auditor registration • Medical students • Advanced & Basic Techniques	200 €	



January 20, 2020

Time	Main Hall	Rooms 1-2-3-4
08:00-09:55	SESSION 1: Instruments - Anatomy - Applied technologies available during hands-on	
10:00-11:20	SESSION 2: ETV	
11:20-11:40	Coffee Break	
11:40-13:00		HANDS-ON ANATOMICAL MODELS
13:00-14:00	Lunch Break	
14:00-16:30		HANDS-ON ANIMAL LIVING MODELS
16:30-16:45	Coffee Break	
16:45-17:40	SESSION 3: ETV - CPC - Septostomy	
17:45-18:30	SESSION 4: CLINICAL CASES ETV & Septostomy	

January 21, 2020

Time	Main Hall	Rooms 1-2-3-4
08:00-08:55	SESSION 5: Difficult ETV, complications avoidance and management	
08:55-09:50	SESSION 6: Arachnoid cysts	
09:55-11:05	SESSION 7: WWW: What Went Wrong - Complications and Intraoperative troubles	
11:10-11:30	Coffee Break	
11:30-13:00		HANDS-ON ANATOMICAL MODELS
13:00-14:00	Lunch Break	
14:00-17:00		HANDS-ON ANIMAL LIVING MODELS
17:00-17:15	Coffee Break	
17:15-18:15	SESSION 8: ENDOSCOPIC TUMOR SURGERY & VIDEO SESSION	
18:15-19:00	SESSION 9: CLINICAL CASES Complex hydrocephalus and arachnoid cysts	

ADVANCED TECHNIQUES



January 22, 2020

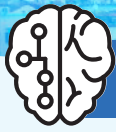
Time	Main Hall	Rooms 1-2-3-4
08:00-09:55	Introduction-Instrumentation	
09:55-11:20	SESSION 10: Different indications	
11:20-11:30	Coffee Break	
11:30-13:00		HANDS-ON ANATOMICAL MODELS
13:00-14:00	Lunch Break	
14:00-16:00		HANDS-ON ANIMAL LIVING MODELS
16:00-16:15	Coffee Break	
16:15-17:15	SESSION 11: VIDEO SESSION Different indications	

January 23, 2020

Time	Main Hall	Rooms 1-2-3-4
08:00-09:50	SESSION 12: Complex hydrocephalus	
09:55-11:05	SESSION 13: Arachnoid cysts	
11:10-11:30	Coffee Break	
11:30-13:00		HANDS-ON ANATOMICAL MODELS
13:00-14:00	Lunch Break	
14:00-17:00		HANDS-ON ANIMAL LIVING MODELS
17:00-17:15	Coffee Break	
17:15-18:15	SESSION 14: VIDEO SESSION Complex hydrocephalus	
18:15-19:00	SESSION 15: CLINICAL CASES Arachnoid cysts	

January 24, 2020

Time	Main Hall	Rooms 1-2-3-4
08:00-09:05	SESSION 16: Endoscopy in tumor management	
09:10-10:35	SESSION 17: Craniopharyngiomas - Miscellaneous	
10:55-11:10	Coffee Break	
11:10-13:00		HANDS-ON ANATOMICAL MODELS
13:00-14:00	Lunch Break	
14:00-17:00		HANDS-ON ANIMAL LIVING MODELS
17:00-18:15	SESSION 18: VIDEO SESSION Craniopharyngiomas and tumors	
18:15-19:00	SESSION 19: CLINICAL CASES Endoscopy and tumors	



Detailed Scientific Program

Monday • January 20, 2020 / **Endoscopic 3rd ventriculostomy and septostomy**

08:00-09:55	SESSION 1: Instruments - Anatomy - Applied technologies available during hands-on	Main Hall
	Chairpersons: Giuseppe Cinalli, Wan Tew Seow	
08:00-08:10	Paolo Cappabianca: <i>Welcome from the Secretary of the SINCH</i>	
08:10-08:20	Giuseppe Cinalli: <i>Organisation and objectives of the course</i>	
08:20-08:30	Santolo Cozzolino: <i>Presentation of the Center</i>	
08:30-08:40	Giuseppe Mirone: <i>Endoscope: basic principles and instrumentation</i>	
08:45-08:55	Wan Tew Seow: <i>Endoscopic anatomy of the ventricles</i>	
09:00-09:10	Corrado Iaccarino: <i>Neuronavigation and Neuroendoscopy</i>	
09:15-09:25	Piero Andrea Oppido: <i>Laser in Neuroendoscopy</i>	
09:30-09:40	Bassel Zebian: <i>Ultrasonic aspirator in Neuroendoscopy</i>	
09:45-09:55	Emidio Procaccini: <i>Robot assisted Neuroendoscopy</i>	
10:00-11:20	SESSION 2: ETV	Main Hall
	Chairperson: Sergey Gorelyshev	
10:00-10:10	Fernando Chico Ponce de Leon: <i>Preoperative evaluation of hydrocephalus</i>	
10:15-10:25	Carlos Brusius: <i>ETV: Indications</i>	
10:30-10:40	Esperanza Arcas Navarrete: <i>ETV: Surgical technique</i>	
10:45-10:55	Tenoch Herrada-Pineda: <i>ETV: Complications avoidance</i>	
	SPECIAL LECTURE	
11:00-11:20	Yazhuo Zhang: <i>Surgical treatment of skull base chordomas</i>	
11:20-11:40	Coffee Break	
11:40-13:00	HANDS-ON ANATOMICAL MODELS	Rooms 1-2-3-4
	Broadcasted at the Main Hall for auditor attendance	
13:00-14:00	Lunch Break	
14:00-16:30	HANDS-ON ANIMAL LIVING MODELS	Rooms 1-2-3-4
	Broadcasted at the Main Hall for auditor attendance	
	24 working stations (2 trainees & 1 tutor per station)	
16:30-16:45	Coffee Break	
16:45-17:40	SESSION 3: ETV – CPC – Septostomy	Main Hall
	Chairperson: Tenoch Herrada Pineda	
16:45-16:55	Ricardo Santos de Oliveira: <i>ETV: long-term results</i>	
17:00-17:10	Llewellyn Padayachy: <i>ETV + CPC</i>	
17:15-17:25	Adrian Caceres: <i>Septostomy: indications</i>	
17:30-17:40	Sergio Cavalheiro: <i>Septostomy: surgical technique</i>	
17:45-18:30	SESSION 4: CLINICAL CASES ETV & Septostomy	Main Hall
	Instructors: Manas Panigrahi, Wan Tew Seow, Ricardo Santos de Oliveira	
	Each instructor presents 3 cases and is allotted 15'.	

BASIC TECHNIQUES

Tuesday • January 21, 2020 / **Complex hydrocephalus**

08:00-08:55	SESSION 5: Difficult ETV, complications avoidance and management Chairperson: Nobuhito Morota Sergey Gorelyshev: <i>Difficult anatomy</i> Manas Panigrahi: <i>Tips and tricks in difficult ETV</i> Artur da Cunha: <i>ETV in spina bifida</i> Sebastian Jaimovich: <i>Septostomy: complications</i>	Main Hall
08:55-09:50	SESSION 6: Arachnoid cysts Chairperson: Llewellyn Padayachy François Lechanoine: <i>Arachnoid cysts: classification and radiology</i> Flavio Giordano: <i>Sylvian cysts: endoscopic surgical technique</i> Sergey Gorelyshev: <i>Suprasellar cysts: endoscopic surgical technique</i> Pietro Spennato: <i>Interhemispheric cysts: endoscopic surgical technique</i> Li Chuzhong: <i>Endoscopic treatment of pineal cysts</i>	Main Hall
09:55-11:05	SESSION 7: WWW: What Went Wrong-Complications and Intraoperative troubles Chairperson: Shlomi Constantini Olga Medvedeva: <i>Wrong ventricular entry</i> Suresh Sankhla: <i>Difficult floor perforation</i> Nobuhito Morota: <i>Unexpected bleeding- management</i> Spyros Sgouros: <i>My worst case</i> Bienvenido Ros Lopez: <i>Postoperative complications</i>	Main Hall
11:10-11:30	Coffee Break	
11:30-13:00	HANDS-ON ANATOMICAL MODELS Broadcasted at the Main Hall for auditor attendance	Rooms 1-2-3-4
13:00-14:00	Lunch Break	
14:00-17:00	HANDS-ON ANIMAL LIVING MODELS Broadcasted at the Main Hall for auditor attendance / 24 working stations (2 trainees & 1 tutor per station)	Rooms 1-2-3-4
17:00-17:15	Coffee Break	
17:15-18:15	SESSION 8: ENDOSCOPIC TUMOR SURGERY & VIDEO SESSION Chairperson: Spyros Sgouros Peng Zhao: <i>Endoport technique in Intraventricular tumor</i> Songbai Gui: <i>Endonasal surgery for craniopharyngiomas</i> VIDEO SESSION Complex hydrocephalus Instructors: Bienvenido Ros Lopez, Sebastian Jaimovich Each instructor presents 3 videos and is allotted 15'.	Main Hall
18:15-19:00	SESSION 9: CLINICAL CASES Complex hydrocephalus and arachnoid cysts Chairperson: Piero Spennato Instructors: Sergey Gorelyshev, Suresh Sankhla, Nobuhito Morota Each instructor presents 3 cases and is allotted 15'.	Main Hall



Detailed Scientific Program

Wednesday • January 22, 2020

08:00-09:55

Introduction-Instrumentation

Main Hall

Chairpersons: **Paolo Cappabianca, Giuseppe Cinalli**

08:00-08:10

Marco Cenzato: *Welcome from the President of the SINCH*

08:10-08:20

Giuseppe Cinalli: *Organisation and objectives of the course*

08:20-08:30

Santolo Cozzolino: *Presentation of the Center*

08:30-08:40

Adrian Caceres: *Endoscope: basic principles and instrumentation*

08:45-08:55

Stefan Wolfsberger: *Neuronavigation and Neuroendoscopy*

09:00-09:10

Piero Andrea Oppido: *Laser in Neuroendoscopy*

09:15-09:25

Sergio Cavalheiro: *Ultrasonic aspirator in Neuroendoscopy*

09:30-09:40

Emidio Procaccini: *Robot assisted Neuroendoscopy*

09:45-09:55

Ruben Dammers: *Endoscopic Evacuation of Hematoma: Artemis Device*

09:55-11:20

SESSION 10: Different indications

Main Hall

Chairperson: **Sergio Cavalheiro**

09:55-10:05

Hisayuki Murai: *Endoscopy in parenchymal haemorrhage*

10:05-10:15

Alessandro Fiorindi: *Endoscopy in intraventricular haemorrhage*

10:15-10:25

Alvaro Cordoba: *Endoscope-assisted microsurgery in brain tumor*

10:30-10:40

Renato Galzio: *Endoscope-assisted microsurgery in vascular surgery*

10:45-10:55

Joachim Oertel: *Neuroendoscopy in vascular surgery*

10:55-11:05

Sandi Lam: *Endoscopic callosotomy and hemispherotomy*

11:10-11:20

Hans Delye: *Endoscopic repair of craniosynostosis*

11:20-11:30

Coffee Break

11:30-13:00

HANDS-ON | ANATOMICAL MODELS

Rooms 1-2-3-4

Broadcasted at the Main Hall for auditor attendance

13:00-14:00

Lunch Break

14:00-16:00

HANDS-ON | ANIMAL LIVING MODELS

Rooms 1-2-3-4

Broadcasted at the Main Hall for auditor attendance
24 working stations (2 trainees & 1 tutor per station)

16:00-16:15

Coffee Break

16:15-17:15

SESSION 11: VIDEO SESSION | Different indications

Main Hall

Chairperson: **Hisayuki Murai**

Instructors: **Sandi Lam, Stefan Wolfsberger, Hans Delye, Joachim Oertel**

Each instructor presents 3 videos and is allotted 15'.

ADVANCED TECHNIQUES

Thursday • January 23, 202019 / **Complex hydrocephalus**

08:00-09:50	SESSION 12: CLINICAL CASES Technique and Instruments	Main Hall
	Chairperson: Memet Özek	
08:00-08:10	Gianpiero Tamburrini: <i>Multiloculated hydrocephalus: classification / radiology</i>	
08:15-08:25	Memet Özek: <i>Multiloculated hydrocephalus: surgical techniques</i>	
08:30-08:40	Alessia Imperato: <i>ETV and shunt malfunction</i>	
08:45-08:55	Samer Elbabaa: <i>ETV in spina bifida</i>	
08:55-09:05	Ulrich-Wilhelm Thomale: <i>Ventricular washing in PHH in prematures</i>	
09:05-09:15	Artur Da Cunha: <i>Choroid plexus coagulation: indications, technique, results</i>	
09:15-09:25	Tenoch Herrada-Pineda: <i>Neurocysticercosis</i>	
09:30-09:40	Fernando Chico Ponce de Leon: <i>Endoscopic treatment of brain abscess and ventriculitis</i>	
09:40-09:50	Chandrashekhar Deopujari: <i>ETV in post-tuberculosis hydrocephalus</i>	
09:55-11:05	SESSION 13: Arachnoid cysts	Main Hall
	Chairperson: Chandrashekhar Deopujari	
09:55-10:05	Carlos Gagliardi: <i>Arachnoid cysts: classification and radiology</i>	
10:10-10:20	Gisele Coelho: <i>Sylvian cysts: endoscopic surgical technique</i>	
10:25-10:35	Jonathan Roth: <i>Suprasellar cysts: endoscopic surgical technique</i>	
10:40-10:50	Benedetta Pettorini: <i>Interhemispheric cysts- Endoscopic surgical technique</i>	
10:55-11:05	Giuseppe Mirone: <i>Posterior fossa cysts: endoscopic surgical technique</i>	
11:10-11:30	Coffee Break	
11:30-13:00	HANDS-ON ANATOMICAL MODELS	Rooms 1-2-3-4
	Broadcasted at the Main Hall for auditor attendance	
13:00-14:00	Lunch Break	
14:00-17:00	HANDS-ON ANIMAL LIVING MODELS	Rooms 1-2-3-4
	Broadcasted at the Main Hall for auditor attendance 24 working stations (2 trainees & 1 tutor per station)	
17:00-17:15	Coffee Break	
17:15-18:15	SESSION 14: VIDEO SESSION Complex hydrocephalus	Main Hall
	Chairperson: Chandrashekhar Deopujari	
	Instructors: Artur da Cunha, Carlos Brusius, Gianpiero Tamburrini, Ulrich-Wilhelm Thomale	
	Each instructor presents 3 videos and is allotted 15'.	
18:15-19:00	SESSION 15: CLINICAL CASES Arachnoid cysts	Main Hall
	Chairperson: Ulrich-Wilhelm Thomale	
	Instructors: Memet Özek, Samer Elbabaa, Gisele Coelho	
	Each instructor presents 3 cases and is allotted 15'.	



ADVANCED TECHNIQUES

Friday • January 24, 2020

08:00-09:05	SESSION 16: Endoscopy in tumor management	Main Hall
	Chairperson: Davide Locatelli	
08:00-08:10	Jose Hinojosa: <i>ETV and posterior fossa tumors</i>	
08:15-08:20	Hisayuki Murai: <i>ETV in pineal tumors: indications, technique</i>	
08:25-08:35	Kenichi Nishiyama: <i>Tumor biopsy / removal: surgical technique</i>	
08:40-08:50	Piero Spennato: <i>Tumor biopsy with normal ventricles</i>	
08:55-09:05	Sergey Gorelyshev: <i>Endoscope-assisted microsurgery in craniopharyngiomas and suprasellar lesions</i>	
09:10-10:50	SESSION 17: Craniopharyngiomas – Miscellaneous	Main Hall
	Chairperson: Henry Schroeder	
09:10-09:20	Davide Locatelli: <i>Craniopharyngiomas: indications to endoscopy</i>	
09:25-09:35	Hisayuki Murai: <i>Craniopharyngiomas: ventricular approach</i>	
09:40-09:50	Luigi Maria Cavallo: <i>Craniopharyngiomas: endonasal approach</i>	
09:55-10:05	Henry Schroeder: <i>Colloid cyst</i>	
10:10-10:20	Henry Schroeder: <i>Dryfield technique in intraventricular surgery</i>	
10:25-10:35	Kazuhito Takeuchi: <i>Cylinder tumor surgery</i>	
10:40-10:50	Salman Sharif: <i>Endoscopic Eyebrow approach</i>	
10:55-11:10	Coffee Break	
11:10-13:00	HANDS-ON ANATOMICAL MODELS Broadcasted at the Main Hall for auditor attendance	Rooms 1-2-3-4
13:00-14:00	Lunch Break	
14:00-17:00	HANDS-ON ANIMAL LIVING MODELS Broadcasted at the Main Hall for auditor attendance 24 working stations (2 trainees & 1 tutor per station)	Rooms 1-2-3-4
17:00-18:15	SESSION 18: VIDEO SESSION Craniopharyngiomas and tumors	Main Hall
	Chairperson: José Hinojosa	
	Instructors: Sergey Gorelyshev, Jose Hinojosa, Davide Locatelli, Kenichi Nishiyama	
	Each instructor presents 3 videos and is allotted 15'.	
18:15-19:00	SESSION 19: CLINICAL CASES Endoscopy and tumors	Main Hall
	Chairperson: Kenichi Nishiyama	
	Instructors: Chandrashekhar Deopujari, Hisayuki Murai, Henry Schroeder	
	Each instructor presents 3 cases and is allotted 15'.	
19:00	End of Workshop	Main Hall

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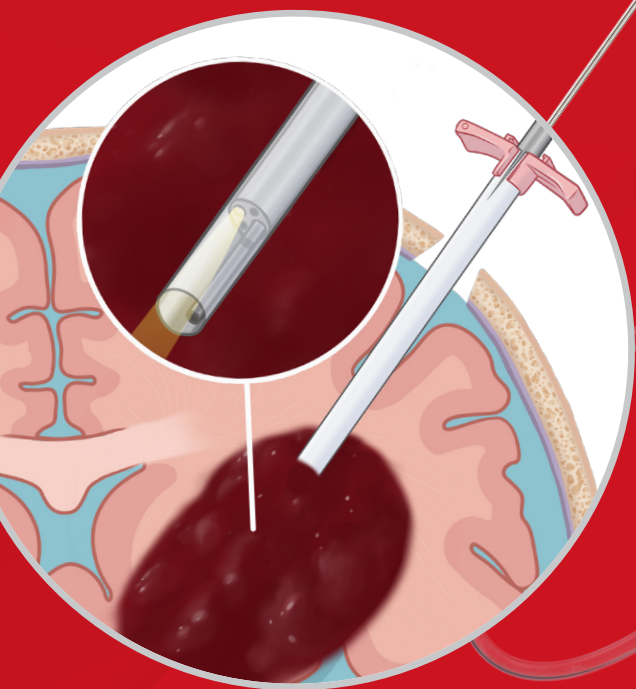
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1. Kellner CP, Chartrain AG, Nistal DA, Scaggiante J, Hom D, Ghatan S, Bederson JB, Mocco J. The Stereotactic Intracerebral Hemorrhage Underwater Blood Aspiration (SCUBA) technique for minimally invasive endoscopic intracerebral hemorrhage evacuation. *Journal of Neurointerventional Surgery*. Volume 10. Issue 8. August 2018.

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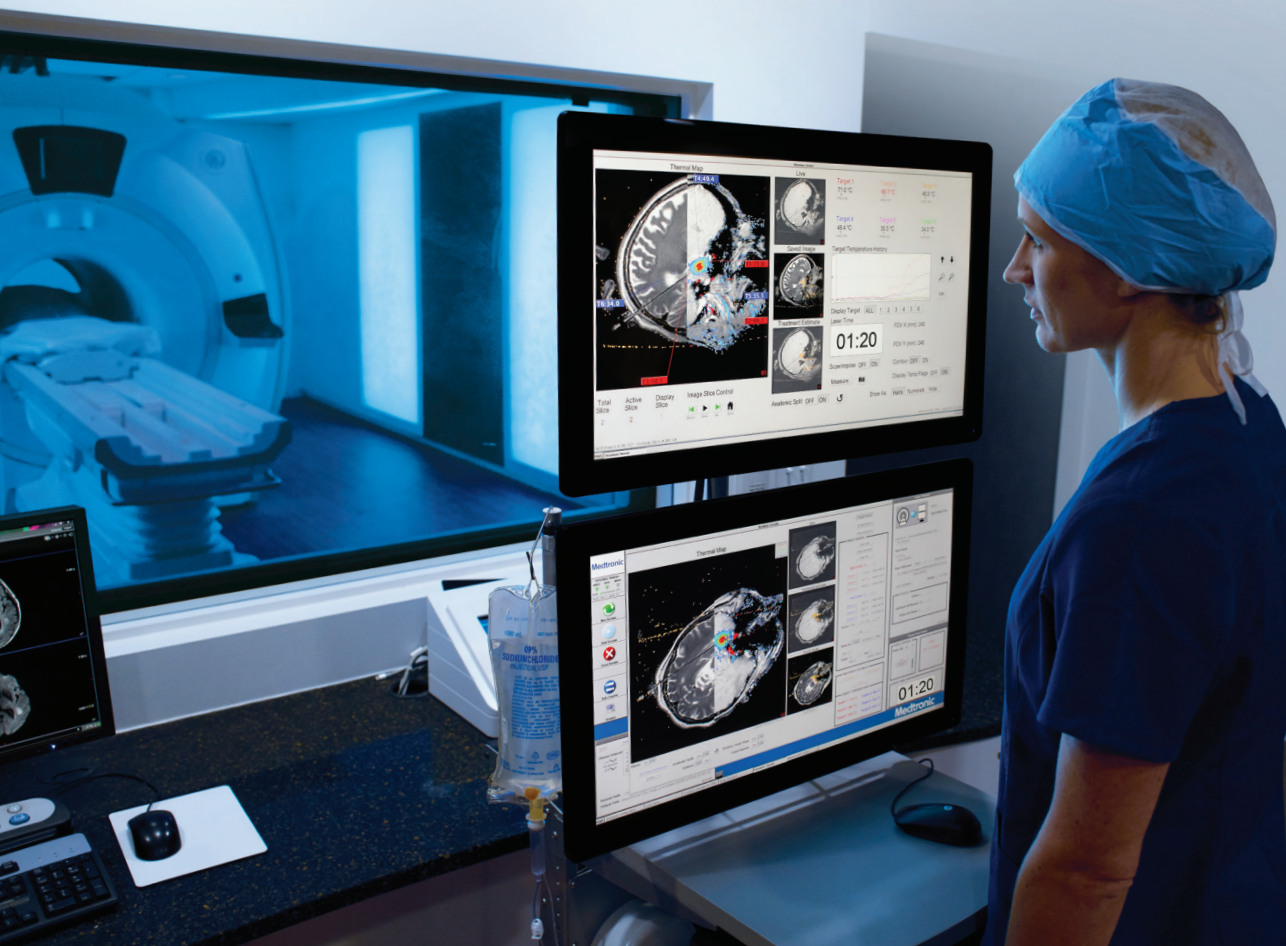
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