



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)

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

*Naples, Italy*

January 21-25, 2019

[www.ifneworkshop.org](http://www.ifneworkshop.org)

**JANUARY 21-22, 2019**  
Basic Techniques

**JANUARY 23-25, 2019**  
Advanced Techniques



"Santobono-Pausilipon"  
Children's Hospital



"Federico II"  
University of Naples



# Welcome Message



Dear Colleagues,

The joint IFNE-GLEN-JSNE-ISNE Workshop on Cerebral and Ventricular Neuroendoscopy is this year at its ninth edition. 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 is 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 is 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, endoscope-assisted 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. Several faculty members learned or improved their endoscopic skills at this workshop then becoming recognised world experts.

After the experience of nine editions, we decided to divide the workshop into two parts, accessible separately or together:

**Basic Course** (January 21-22, 2019): 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 23-25, 2019): 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 choose 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 hope you will choose to see personally how Neuroendoscopy is performed throughout the world by the most renowned experts in the field, and become 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 hope to see you soon and welcome you in our fantastic and lively city.

**Giuseppe Cinalli M.D.**

President, International Federation of Neuro Endoscopy (IFNE)

Director, Department of Neurosciences

Director, Division of Pediatric Neurosurgery

Santobono-Pausilipon Children's Hospital, Naples, Italy

# Organization

Organised by:



International  
Federation  
of Neuroendoscopy

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Japanese Society for Neuroendoscopy (JSNE)



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Indian Society for Neuroendoscopy (ISNE)



World Federation of Neurosurgical Societies (WFNS)  
Neuroendoscopy Committee



European Society for Pediatric Neurosurgery (ESPN)



Società Italiana di Neurochirurgia (SINCH)

# Committees

## Local Organizing Committee

Chair: **Giuseppe Cinalli**

Members: **Ferdinando Aliberti**  
**Giuseppe Cinalli**  
**Serena dé Santi**

**Giuliana Di Martino**  
**Giuseppe Mirone**  
**Stefano Parlato**

**Claudio Ruggiero**  
**Pietro Spennato**  
**Vincenzo Trischitta**

## Faculty

**Ferdinando Aliberti**, Italy  
**Esperanza Arcas Navarrete**, Spain  
**Carlos Brusius**, Brasil  
**Adrian Caceres**, Costa Rica  
**Paolo Cappabianca**, Italy  
**Fernando Chico Ponce de Leon**, Mexico  
**Giuseppe Cinalli**, Italy  
**Gisele Coelho**, Brasil  
**Alvaro Cordoba**, Uruguay  
**Artur da Cunha**, Brasil  
**Alessandro de Benedictis**, Italy  
**Hans Delye**, The Netherlands  
**Roberto Alexander Dezena**, Brasil  
**Federico di Rocco**, France  
**Samer Elbabaa**, United States  
**Alessandro Fiorindi**, Italy  
**Renato Galzio**, Italy  
**Carlos Gagliardi**, Argentina  
**Flavio Giordano**, Italy  
**Sergey Gorelyshev**, Russia  
**Tenoch Herrada Pineda**, Mexico  
**José Hinojosa**, Spain  
**Corrado Iaccarino**, Italy  
**Alessia Imperato**, Italy  
**Sebastian Jaimovich**, Argentina  
**Sandi Lam**, United States  
**Francois Lechanoine**, France  
**Davide Locatelli**, Italy  
**Carlo Efisio Marras**, Italy  
**Olga Medvedeva**, Russia

**Giuseppe Mirone**, Italy  
**Masakazu Miyajima**, Japan  
**Nobuhito Morota**, Japan  
**Hisayuki Murai**, Japan  
**Kenichi Nishiyama**, Japan  
**Joachim Oertel**, Germany  
**Piero Andrea Oppido**, Italy  
**Memet Özek**, Turkey  
**Llewellyn Padayachy**, South Africa  
**Manas Panigrahi**, India  
**Stefano Parlato**, Italy  
**Benedetta Pettorini**, United Kingdom  
**Bienvenido Ros-Lopez**, Spain  
**Jonathan Roth**, Israel  
**Claudio Ruggiero**, Italy  
**Ricardo Santos de Oliveira**, Brasil  
**Henry Schroeder**, Germany  
**Wan Tew Seow**, Singapore  
**Spyros Sgouros**, Greece  
**Suresh Shankla**, India  
**Salman Sharif**, Pakistan  
**Pietro Spennato**, Italy  
**Kazuhito Takeuchi**, Japan  
**Gianpiero Tamburrini**, Italy  
**Ulrich W Thomale**, Germany  
**Neelam Venkataramana**, India  
**Tadashi Watanabe**, Japan  
**Stefan Wolfsberger**, Austria  
**Bassel Zebian**, United Kingdom

# 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	1.550 €	
Delegate registration   IFNE/JSNE/GLEN/ISNE/ESPN/SINCH Member   Advanced & Basic Techniques	1.350 €	
Auditor registration   Advanced & Basic Techniques	500 €	
Auditor registration   Medical students   Advanced & Basic Techniques	200 €	

## Delegate registration to the Workshop includes the following services:

- Attendance of Program Sessions
- Active participation in Hands-on
- Workshop documentation, Certificate of Attendance and delegate material
- Coffee and lunch as specified in the Workshop program

## Auditor registration to the Workshop includes the following services:

- Attendance of Program Sessions
- Video attendance of Hands-on and Q&A from the auditorium
- Workshop documentation, Certificate of Attendance and delegate material
- Coffee and lunch as specified in the Workshop program

**Limited participation:  
maximum attendance of 48 delegates and 30 auditors**

Registration to be confirmed on a first-come first-registered basis.

# General Information

## Workshop Venue

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

Via Antonio Cardarelli n. 9, 80131 Naples, Italy

T./F. +39 081 7473433/-2037/-2158/-3526 • Email: [biotecnologie@aocardarelli.it](mailto:biotecnologie@aocardarelli.it)

Website: [www.centrodibiotecnologie.org](http://www.centrodibiotecnologie.org)



## IFNE Administrative Secretariat & Workshop Organizing Bureau



**Erasmus Conferences Tours & Travel S.A.**

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Email: [info@ifneuroendoscopy.org](mailto:info@ifneuroendoscopy.org) • [info@ifneworkshop.org](mailto:info@ifneworkshop.org)







# Scientific Program



**January 21 – 22, 2019**  
**Basic Techniques**



**January 23 – 25, 2019**  
**Advanced Techniques**



## Monday • January 21, 2019

### Endoscopic 3<sup>rd</sup> ventriculostomy and septostomy

08:00-09:55	<b>SESSION 1: Instruments - Anatomy - Applied technologies available during hands-on</b>	Main Hall
	Chairpersons: <b>Paolo Cappabianca, Giuseppe Cinalli</b>	
08:00-08:10	<b>Paolo Cappabianca:</b> <i>Welcome from the Secretary of the SINCH</i>	
08:10-08:20	<b>Giuseppe Cinalli:</b> <i>Organisation and objectives of the course</i>	
08:20-08:30	<b>Santolo Cozzolino:</b> <i>Presentation of the Center</i>	
08:30-08:40	<b>Giuseppe Mirone:</b> <i>Endoscope: basic principles and instrumentation</i>	
08:45-08:55	<b>Wan Tew Seow:</b> <i>Endoscopic anatomy of the ventricles</i>	
09:00-09:10	<b>Corrado Iaccarino:</b> <i>Neuronavigation and Neuroendoscopy</i>	
09:15-09:25	<b>Piero Andrea Oppido:</b> <i>Laser in Neuroendoscopy</i>	
09:30-09:40	<b>Bassel Zebian:</b> <i>Ultrasonic aspirator in Neuroendoscopy</i>	
09:45-09:55	<b>Carlo Efisio Marras:</b> <i>Robot assisted Neuroendoscopy</i>	
10:00-11:15	<b>SESSION 2: ETV</b>	Main Hall
	Chairperson: <b>Jonathan Roth</b>	
10:00-10:10	<b>Fernando Chico Ponce de Leon:</b> <i>Preoperative evaluation of hydrocephalus</i>	
10:15-10:25	<b>Carlos Brusius:</b> <i>ETV: Indications</i>	
10:30-10:40	<b>Esperanza Arcas Navarrete:</b> <i>ETV: Surgical technique</i>	
10:45-10:55	<b>Jonathan Roth:</b> <i>ETV: Complications avoidance</i>	
11:00-11:15	<b>Giuseppe Cinalli:</b> <i>Training models surgery and rat surgery</i>	
11:20-11:40	Coffee Break	
11:40-13:00	<b>HANDS-ON   ANATOMICAL MODELS</b>	Rooms 1-2-3-4
	Broadcasted at the Main Hall for auditor attendance	
13:00-14:00	Lunch Break	
14:00-16:30	<b>HANDS-ON   ANIMAL LIVING MODELS</b>	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	<b>SESSION 3: ETV – Septostomy</b>	Main Hall
	Chairperson: <b>Tenoch Herrada Pineda</b>	
16:45-16:55	<b>Ricardo Santos de Oliveira:</b> <i>ETV: long-term results</i>	
17:00-17:10	<b>Nobuhito Morota:</b> <i>Septostomy: Anatomy and indications</i>	
17:15-17:25	<b>Roberto Dezena:</b> <i>Septostomy: surgical technique</i>	
17:30-17:40	<b>Sebastian Jaimovich:</b> <i>Septostomy: complications</i>	
17:45-18:30	<b>SESSION 4: CLINICAL CASES   ETV &amp; Septostomy</b>	Main Hall
	Chairperson: <b>Ricardo Santos de Oliveira</b>	
	Instructors: <b>Manas Panigrahi, Jonathan Roth, Ricardo Santos de Oliveira</b>	
	Each instructor presents 3 cases and is allotted 15'.	



## Tuesday • January 22, 2019

### Complex hydrocephalus

<b>08:00-08:55</b>	<b>SESSION 5: Difficult ETV, complications avoidance and management</b>	<b>Main Hall</b>
	Chairperson: <b>Sergey Gorelyshev</b>	
08:00-08:10	<b>Sergey Gorelyshev: Difficult anatomy</b>	
08:15-08:25	<b>Manas Panigrahi: Tips and tricks in difficult ETV</b>	
08:30-08:40	<b>Artur da Cunha: ETV in spina bifida</b>	
08:45-08:55	<b>Benedetta Pettorini: ETV and shunt malfunction</b>	
<b>08:55-09:50</b>	<b>SESSION 6: Arachnoid cysts</b>	<b>Main Hall</b>
	Chairperson: <b>Carlos Gagliardi</b>	
08:55-09:05	<b>François Lechanoine: Arachnoid cysts: classification and radiology</b>	
09:05-09:15	<b>Flavio Giordano: Sylvian cysts: endoscopic surgical technique</b>	
09:15-09:25	<b>Sergey Gorelyshev: Suprasellar cysts: endoscopic surgical technique</b>	
09:30-09:40	<b>Pietro Spennato: Interhemispheric cysts: endoscopic surgical technique</b>	
09:40-09:50	<b>Nobuhito Morota: Intraventricular, quadrigeminal and posterior fossa cysts: endoscopic surgical technique</b>	
<b>09:55-11:05</b>	<b>SESSION 7: WWW: What Went Wrong-Complications and Intraoperative troubles</b>	<b>Main Hall</b>
	Chairperson: <b>Alvaro Cordoba</b>	
09:55-10:05	<b>Olga Medvedeva: Wrong ventricular entry</b>	
10:10-10:20	<b>Tenoch Herrada Pineda: Difficult floor perforation</b>	
10:25-10:35	<b>Carlos Gagliardi: Unexpected bleeding: management</b>	
10:40-10:50	<b>Alvaro Cordoba: My worst case</b>	
10:55-11:05	<b>Bienvenido Ros Lopez: Postoperative complications</b>	
11:10-11:30	Coffee Break	
<b>11:30-13:00</b>	<b>HANDS-ON   ANATOMICAL MODELS</b>	<b>Rooms 1-2-3-4</b>
	Broadcasted at the Main Hall for auditor attendance	
13:00-14:00	Lunch Break	
<b>14:00-17:00</b>	<b>HANDS-ON   ANIMAL LIVING MODELS</b>	<b>Rooms 1-2-3-4</b>
	Broadcasted at the Main Hall for auditor attendance	
	24 working stations (2 trainees & 1 tutor per station)	
17:00-17:15	Coffee Break	
<b>17:15-18:15</b>	<b>SESSION 8: VIDEO SESSION   Complex hydrocephalus</b>	<b>Main Hall</b>
	Chairperson: <b>Roberto Alexandre Dezena</b>	
	Instructors: <b>Bienvenido Ros Lopez, Olga Medvedeva, Wan Tew Seow, Sebastian Jaimovich</b>	
	Each instructor presents 3 videos and is allotted 15'.	
<b>18:15-19:00</b>	<b>SESSION 9: CLINICAL CASES   Complex hydrocephalus and arachnoid cysts</b>	<b>Main Hall</b>
	Chairperson: <b>Sebastian Jaimovich</b>	
	Instructors: <b>Sergey Gorelyshev, Benedetta Pettorini, Roberto Alexandre Dezena</b>	
	Each instructor presents 3 cases and is allotted 15'.	



## Wednesday • January 23, 2019

08:00-09:40

### Introduction-Instrumentation

Main Hall

Chairpersons: **Paolo Cappabianca, Giuseppe Cinalli**

08:00-08:10 **Paolo Cappabianca:** *Welcome from the Secretary 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 **Giuseppe Cinalli:** *Ultrasonic aspirator in Neuroendoscopy*

09:30-09:40 **Carlo Efsio Marras:** *Robot assisted Neuroendoscopy*

09:45-11:20

### SESSION 10: Different indications

Main Hall

Chairperson: **Adrian Caceres**

09:45-09:55 **Hisayuki Murai:** *Endoscopy in parenchymal haemorrhage*

10:00-10:10 **Alessandro Fiorindi:** *Endoscopy in intraventricular haemorrhage*

10:15-10:25 **Sergey Gorelyshev:** *EAM in craniopharyngiomas and suprasellar lesions*

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

14:00-17:00

### 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 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'.

18:15-19:00

### SESSION 12: CLINICAL CASES | Technique and Instruments

Main Hall

Chairperson: **Joachim Oertel**

Instructors: **Kazuhiro Takeuchi, Adrian Caceres, Pietro Spennato**

Each instructor presents 3 cases and is allotted 15'



## Thursday • January 24, 2019

### Complex hydrocephalus

<b>08:00-09:50</b>	<b>SESSION 13: Complex hydrocephalus</b>	<b>Main Hall</b>
	Chairperson: <b>Memet Özek</b>	
08:00-08:10	<b>Gianpiero Tamburrini:</b> <i>Multiloculated hydrocephalus: classification / radiology</i>	
08:15-08:25	<b>Salman Sharif:</b> <i>Multiloculated hydrocephalus: surgical techniques</i>	
08:30-08:40	<b>Suresh Sankhla:</b> <i>ETV and shunt malfunction</i>	
08:45-08:55	<b>Samer Elbabaa:</b> <i>ETV in spina bifida</i>	
08:55-09:05	<b>Ulrich W. Thomale:</b> <i>Ventricular washing in PHH in prematures</i>	
09:05-09:15	<b>Llewellyn Padayachi:</b> <i>Choroid plexus coagulation: indications, technique, results</i>	
09:15-09:25	<b>Tenoch Herrada Pineda:</b> <i>Neurocysticercosis</i>	
09:30-09:40	<b>Fernando Chico Ponce de Leon:</b> <i>Ventricular lavage in purulent ventriculitis</i>	
09:40-09:50	<b>Neelam Venkataramana:</b> <i>ETV in post-tuberculosis hydrocephalus</i>	
<b>09:55-11:05</b>	<b>SESSION 14: Arachnoid cysts</b>	<b>Main Hall</b>
	Chairperson: <b>Suresh Sankhla</b>	
09:55-10:05	<b>Carlos Gagliardi:</b> <i>Arachnoid cysts: classification and radiology</i>	
10:10-10:20	<b>Federico Di Rocco:</b> <i>Sylvian cysts: endoscopic surgical technique</i>	
10:25-10:35	<b>Memet Özek:</b> <i>Suprasellar cysts: endoscopic surgical technique</i>	
10:40-10:50	<b>Gisele Coelho:</b> <i>Intraventricular, quadrigeminal and posterior fossa cysts: endoscopic surgical technique</i>	
10:55-11:05	<b>Spyros Sgouros:</b> <i>Posterior fossa cysts: endoscopic surgical technique</i>	
<b>11:10-11:30</b>	Coffee Break	
<b>11:30-13:00</b>	<b>HANDS-ON   ANATOMICAL MODELS</b>	<b>Rooms 1-2-3-4</b>
	Broadcasted at the Main Hall for auditor attendance	
<b>13:00-14:00</b>	Lunch Break	
<b>14:00-17:00</b>	<b>HANDS-ON   ANIMAL LIVING MODELS</b>	<b>Rooms 1-2-3-4</b>
	Broadcasted at the Main Hall for auditor attendance	
	24 working stations (2 trainees & 1 tutor per station)	
<b>17:00-17:15</b>	Coffee Break	
<b>17:15-18:15</b>	<b>SESSION 15: VIDEO SESSION   Complex hydrocephalus</b>	<b>Main Hall</b>
	Chairperson: <b>Neelam Venkataramana</b>	
	Instructors: <b>Artur da Cunha, Carlos Brusius, Gianpiero Tamburrini, Ulrich W. Thomale</b>	
	Each instructor presents 3 videos and is allotted 15'.	
<b>18:15-19:00</b>	<b>SESSION 16: CLINICAL CASES   Arachnoid cysts</b>	<b>Main Hall</b>
	Chairperson: <b>Spyros Sgouros</b>	
	Instructors: <b>Memet Özek, Federico Di Rocco, Gisele Coelho</b>	
	Each instructor presents 3 cases and is allotted 15'.	



## Friday • January 25, 2018

08:00-09:05	<b>SESSION 17: Endoscopy in tumor management</b> Chairperson: <b>Davide Locatelli</b>	Main Hall
08:00-08:10	<b>Jose Hinojosa:</b> <i>ETV and posterior fossa tumors</i>	
08:15-08:20	<b>Kenichi Nishiyama:</b> <i>ETV in pineal tumors: indications, technique</i>	
08:25-08:35	<b>Masakatsu Miyajima:</b> <i>Tumor biopsy / removal: surgical technique</i>	
08:40-08:50	<b>Giuseppe Cinalli:</b> <i>Tumor biopsy with normal ventricles</i>	
08:55-09:05	<b>Alvaro Cordoba:</b> <i>Endoscope-assisted microsurgery in brain tumors</i>	
09:10-10:35	<b>SESSION 18: Craniopharyngiomas – Miscellaneous</b> Chairperson: <b>Henry Schroeder</b>	Main Hall
09:10-09:20	<b>Davide Locatelli:</b> <i>Craniopharyngiomas: indications to endoscopy</i>	
09:25-09:35	<b>Hisayuki Murai:</b> <i>Craniopharyngiomas: ventricular approach</i>	
09:40-09:50	<b>Paolo Cappabianca:</b> <i>Craniopharyngiomas: endonasal approach</i>	
09:55-10:05	<b>Henry Schroeder:</b> <i>Colloid cyst</i>	
10:10-10:20	<b>Tadashi Watanabe:</b> <i>Cylinder tumor surgery</i>	
10:25-10:35	<b>Kazuhiro Takeuchi:</b> <i>Endoscopic approach to the brainstem</i>	
10:40-10:50	<b>Kenichi Nishiyama:</b> <i>Digital imaging in neuroendoscopy and next generation</i>	
10:55-11:20	Coffee Break	
11:20-13:00	<b>HANDS-ON   ANATOMICAL MODELS</b> Broadcasted at the Main Hall for auditor attendance	Rooms 1-2-3-4
13:00-14:00	Lunch Break	
14:00-17:00	<b>HANDS-ON   ANIMAL LIVING MODELS</b> 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	<b>SESSION 19: VIDEO SESSION   Craniopharyngiomas and tumors</b> Chairperson: <b>José Hinojosa</b> Instructors: <b>Henry Schroeder, Wan Tew Seow, Davide Locatelli, Kenichi Nishiyama</b> Each instructor presents 3 videos and is allotted 15'.	Main Hall
18:15-19:00	<b>SESSION 20: CLINICAL CASES   Endoscopy and tumors</b> Chairperson: <b>Kenichi Nishiyama</b> Instructors: <b>Neelam Venkataramana, Hisayuki Murai, Henry Schroeder</b> Each instructor presents 3 cases and is allotted 15'.	Main Hall
19:00	End of Workshop	Main Hall

21-24 NOVEMBER  
**2019**

**9th**  
**IFNE**



International  
Federation  
of Neuroendoscopy

TRANSFORMED FROM ISONE SINCE 2001

**WORLD CONGRESS OF  
NEUROENDOSCOPY**  
HILTON BONNET CREEK  
ORLANDO, FLORIDA, USA

**Pre-Congress  
Workshop**

20-21 November 2019



**WWW.IFNECONGRESS.ORG**

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

*Naples, Italy*

January 21-25, 2019



[www.ifneworkshop.org](http://www.ifneworkshop.org)