



WFITN | 2019

NAPLES

# 15<sup>th</sup> CONGRESS OF THE World Federation of Interventional and Therapeutic Neuroradiology

OCTOBER  
21-24, 2019

**NAPLES**  
ITALY

PRESIDENTS

Alessandra **Biondi**  
Mario **Muto**

Palacongressi

MOSTRA D'OLTREMARE



Viale John Fitzgerald Kennedy, 54  
80125 Napoli

**FINAL PROGRAM**



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## Past WFITN Meetings

- 1991** Zurich – Anton Valavanis
- 1993** Vancouver – Karel terBrugge
- 1995** Kyoto – Waro Taki
- 1997** New York – Alejandro Berenstein
- 1999** Algarve – Jorge Campos
- 2001** Seoul – In Sup Choi
- 2003** Recife – Ronie Leo Piske †
- 2005** Venice – Marco Leonardi
- 2007** Beijing – Ling Feng
- 2009** Montreal – Jean Raymond and Daniel Roy
- 2011** Capetown – Allan Taylor and David Lefeuvre
- 2013** Buenos Aires – Pedro Lylyk and Luis Lemme Plaghos
- 2015** Gold Coast – Winston Chong, Hal Rice and Laetitia de Villiers
- 2017** Budapest – István Szikora and Zsolt Kulcsár
- 2019** Naples – Alessandra Biondi and Mario Muto

## Welcome Message from the Presidents of WFITN 2019

Dear Colleagues, dear Friends,

it is a great honor and privilege for us to welcome you in Naples to the 15<sup>th</sup> congress of the WFITN, held from 21<sup>st</sup> to 24<sup>th</sup> October 2019.

The goal of our scientific society is to keep trained members and to share worldwide experience. As usual, a mix of clinical diagnostic knowledge and technical skills will characterize our meeting, underlining that teams in which the target is the patient obtain the best result.

The meeting will be organized in plenary sessions and morning and lunch seminars; more space is going to be available to young researchers to which we will dedicate specific sessions for worldwide talent. Important hot topics will be discussed, there will be the area of labs and hands-on courses to experience new devices and materials.

There will be the possibility of benefit from Educational Grants provided by MedTech Member Companies to support medical education.

We hope that you will enjoy the Congress and that your interaction with your colleagues from many different countries will stimulate a creative exchange of ideas.

We are confident that the crucial importance of the contribution that everyone will bring to this event will make this experience unforgettable, and will be another starting point for the future scientific progress of the international interventional and therapeutic Neuroradiology.

Again, we are delighted to welcome you and we hope and trust that you will enjoy your visit to the very beautiful and exciting city of Naples.

### The 15<sup>th</sup> WFITN Presidents



**Alessandra Biondi**

Chief of the Department of Neuroradiology  
and Endovascular Therapy  
Jean Minjot University Hospital  
Besançon, France



**Mario Muto**

Chief of the Diagnostic and Therapeutic  
Neuroradiology Department Neuroscience of  
Cardarelli Hospital  
Naples, Italy

## Welcome Message from the President of WFITN

Dear Colleagues, dear Friends,

Thirty years ago, a few medical pioneers practiced Interventional Neuroradiology. Coming from many specialties, with different backgrounds and nationalities, they formed from the beginning an international community. This small group has since grown tremendously and techniques have certainly improved. The benefit to the patients has been verified in large studies. As a result, neurointervention is today an integrated part of any neurovascular center.

So, we have indeed been very successful!

However, there are still many hurdles. The most obvious is the lack of trained INR specialists to take in charge the increased demand for thrombectomy. This has created a situation when it is tempting for physicians without proper training to perform INR procedures.

During the Gold Coast congress was created a multi-society document: "Training Guidelines for Endovascular Ischemic Stroke Intervention: An International multi-society consensus document", published simultaneously in the twelve participating societies journals. This powerful document has been very helpful to our friends in the USA.

As this is written, we are in the process of finalizing a second multi-society document, created during the Budapest congress: "Standards of Practice in Acute Ischemic Stroke Intervention".

Such documents may seem a little boring but are extremely important since they define our specialty; the training and the competence required performing endovascular procedures in the brain, in this case mechanical thrombectomy.

The intention is to continue and deepen this collaboration with all major neuroscience societies, to create common documents, guidelines and research projects. Common goals and scientific collaboration are very important not only for relationships between societies, but also for personal reasons. A great opportunity to renew old friendships and create new bonds is the WFITN biannual congress, this time in Naples. There are many cities around the world, but Naples is very special. It is situated in a magnificent bay, between the beauty, the island Capri, and the beast, the volcano Vesuvius. It is a very old city with many interesting museums, pieces of art and artifacts. Do not miss the "Veiled Christ" in the Sansevero Chapel! The center of the city is a world heritage; take your time to stroll along the narrow streets.

The food is well known to be excellent and here you can get the best pizza in the world! Naples was an advocate for Italian unification during the Neapolitan War. Let Naples be the place where we all unite, share our knowledge, create new friendships and enjoy a great meeting!

Our hosts will be Alessandra Biondi and Mario Muto. They will for sure create an excellent program.

Looking forward to meeting Naples for the 15<sup>th</sup> WFITN congress!

### Current President of WFITN



**Michael Söderman, MD, Associate Professor,  
Vice President Symposium Neuroradiologicum (Taipei),  
Head Neurointervention, Dept of Neuroradiology  
Karolinska University Hospital, Stockholm, Sweden**



## WORLD FEDERATION OF INTERVENTIONAL AND THERAPEUTIC NEURORADIOLOGY

### WFITN Executive Committee

Michael Söderman - *President*

Allan Taylor - *Vice President Committee for Rules&Contracts*

Sirintara Pongpech - *Past President Committee for Education*

Michihiro Tanaka - *Secretary General Committee for Rules&Contracts, Committee for Website*

Darren Orbach – *Treasurer*

Luc Picard - *Honorary President Committee for Ethic*

Patrick Brouwer - *Member at Large Committee for Ethic*

Seon-Kyu Lee - *Member at Large Committee for Education*

Laurent Spelle - *Member at Large Committee for Research*

Dae Chul Suh - *Member at Large Committee for Website*

Hongqi Zhang - *Member at Large Committee for Education and Research*

Masaki Komiyama - *Editor in chief, Interventional Neuroradiology*

### WFITN Secretariat

The Information Desk of WFITN's Secretariat will be available throughout the Congress to provide information about WFITN, membership, new applications, INR Journal, payment of membership fee (etc.).

#### Sabine Heckmann

**Email:** [secretary@wfitn.org](mailto:secretary@wfitn.org)

**Phone:** +49 171 261 6661

**web:** [www.wfitn.org](http://www.wfitn.org)



# World Federation of Interventional and Therapeutic Neuroradiology WFITN 15<sup>th</sup> Meeting Naples, 2019

**Alessandra Biondi & Mario Muto**  
Presidents of the Congress

## Local Organizing Committee

Francesco Briganti - *Italy*  
Francesco Causin - *Italy*  
Elisa Ciceri - *Italy*  
Anne-Christine Januel - *France*  
Marina Sachet - *France*  
Francis Turjman - *France*

## Junior Local Organizing Committee

Giovanni Vitale - *France*  
Fortunato Di Caterino - *France*  
Guillaume Charbonnier - *France*  
Chiara Gaudino - *Italy*  
Arturo Consoli - *Italy*  
Gianluigi Guarnieri - *Italy*

## International Scientific Committee

Timo Krings - *Canada*  
Joshua Hirsch - *USA*  
Naci Kocer - *Turkey*  
Jeyaledchumy Mahadevan - *Malaysia*  
Ronie Piske – *Brazil* †  
Donatella Tampieri - *Canada*  
Allan Taylor - *South Africa*

## WFITN Advisory Scientific Committee

Winston Chong - *Australia*  
Pedro Lylyk - *Argentina*  
Makoto Negoro - *Japan*  
Sirintara Pongpech - *Thailand*  
George Rodesch - *France*  
Istvan Szikora - *Hungary*

## 2<sup>nd</sup> Meeting - Women in Neuro-Interventional Practice

President - Ronit Agid, *Canada*  
Moderators - Isil Saatci, *Turkey* - Jeyaledchumy Mahadevan, *Malaysia*

### **Abstract Review Committee**

Tommy Andersson - *Sweden*  
Elisa Ciceri - *Italy*  
Insup Choi - *South Korea*  
Winston Chong - *Australia*  
Anchalee Churojana - *Thailand*  
Jens Fiehler - *Germany*  
Timo Krings - *Canada*  
Monica Killer - *Austria*  
Vitor Pereira - *Canada*  
Laurent Pierot - *France*  
Darren Orbach - *USA*  
Shelley Renowden - *UK*  
Michael Söderman - *Sweden*  
Dae Chul Suh - *South Korea*  
Istvan Szikora - *Hungary*  
Donatella Tampieri - *Canada*  
Michihiro Tanaka - *Japan*  
Allan Taylor - *South Africa*  
Hongqi Zhang - *China*

### **Symposium for Nurses, Technicians and Radiographers in collaboration with ESMINT**

#### **Organizing Committee**

Adriaan Van Es – *The Netherlands*  
Ariene Mastenbroek - *The Netherlands*  
Kathryn Jones - *Australia*  
Fabienne Menu - *France*  
Helen Genins - *Sweden*  
Danilo Olivares-Gomez - *Sweden*  
Christina Wetzels - *Germany*





## FACULTY LIST

Ronit Agid – *Canada*  
Marta Aguilar-Perez – *Germany*  
Joanna Akerblom - *Sweden*  
Felipe Albuquerque - *USA*  
Tommy Andersson - *Sweden*  
René Anxionnat – *France*  
Blaise Baxter - *USA*  
Nancy Baxter - *Canada*  
Matteo Bellini - *Italy*  
Göetz Benndorf - *Denmark*  
Alejandro Berenstein – *USA*  
Mauro Bergui - *Italy*  
Philip Bernhardt – *Sweden*  
Theresa Bertram - *Germany*  
Alessandra Biondi - *France*  
Luisa Biscoito – *Portugal*  
Alain Bonafé – *France*  
Giuseppe Bonaldi - *Italy*  
Serge Bracard – *France*  
Sandra Bracco – *Italy*  
Francesco Briganti - *Italy*  
Waleed Brinjikji – *USA*  
Allan Brook - *USA*  
Patrick Brouwer - *Sweden*  
Jan Bukh - *Germany*  
Alfredo Casasco - *Spain*  
Francesco Causin - *Italy*  
Saruhan Cekirge - *Turkey*  
René Chapot - *Germany*  
Cuong Tran Chi – *Vietnam*  
Winston Chong - *Australia*  
Anchalee Churojana - *Thailand*  
Alessandro Cianfoni - *Switzerland*  
Elisa Ciceri - *Italy*  
Christophe Cognard - *France*  
Arturo Consoli – *Italy*  
Vincent Costalat – *France*  
Concetto Cristaudo - *Italy*  
Marcus Czabanka - *Germany*  
Simon de Meyer – *Belgium*  
Laetitia de Villers - *Australia*  
Joost de Vries - *The Netherlands*  
Hubert Desal – *France*  
Fortunato Di Caterino - *France*  
Jacques Dion - *USA*  
Didier Dormont - *France*  
Julien Ducasse - *France*  
Jens Fiehler – *Germany*  
David Fiorella – *USA*  
Fabian Flottmann - *Germany*  
Donald Frei - *USA*  
Shailesh Gaikwad - *India*  
Gyula Gál - *Denmark*  
Sophie Gallas - *France*  
Helen Genins - *Sweden*  
Jean Christophe Gentric - *France*  
Matthew Gounis - *USA*  
Mayank Goyal – *Canada*  
Gianluigi Guarnieri - *Italy*  
Lotfi Hacein-Bey - *USA*  
David Hasan - *USA*  
Ben Hassem - *France*  
Hans Henkens - *Germany*  
Steven Hetts - *USA*  
Joshua Hirsch - *USA*  
Emmanuel Houdart - *France*  
Francis Hui - *Singapore*  
Shakir Husain - *India*  
Christina Iosif - *Greece*  
Civan Işlak - *Turkey*  
Pascal Jabbour - *USA*  
Anne-Christine Januel - *France*  
Jack Jennings - *USA*  
Liqun Jiao – *China*  
Michelle Johnson - *USA*  
Kathryn Jones - *Australia*  
Ian Kaminsky - *USA*  
Adrian Kastler – *France*  
Kiffon Keigher - *USA*  
Monica Killer - *Austria*  
Naci Kocer – *Turkey*  
Ivan Komesarovic - *Croatia*  
Sushi Kominami - *Japan*  
Masaki Komiyama - *Japan*  
Manoelle Kossorotoff - *France*  
Timo Krings - *Canada*  
Zsolt Kulcsár - *Switzerland*  
Giuseppe Lanzino - *USA*  
Seo Kyu Lee - *USA*  
Wickly Lee - *Singapore*  
David Le Feuvre - *South Africa*  
Luis Lemme-Plaghos - *Argentina*  
Thabele Leslie-Mazwi - *USA*  
Didier Leys – *France*  
Thomas Liebig - *Germany*  
Italo Linfante - *USA*  
Feng Ling – *China*  
Marcello Longo - *Italy*  
Demetrius Lopes – *USA*  
Luis Lopez-Ibor - *Spain*  
Chao Bao Luo – *Taiwan*  
Pedro Lylyk - *Argentina*  
Paolo Machi - *Switzerland*  
Jeyaledchumy Mahadevan – *Malaysia*  
Adel Malek - *USA*  
Josip Mamic - *Croatia*  
Luigi Manfré - *Italy*  
Salvatore Mangiafico - *Italy*  
Stefano Marcia - *Italy*  
Miklos Marosfoi - *USA*  
Ariene Mastenbroek - *The Netherlands*  
Myriam Mauri – *France*  
Maria Mauti – *The Netherlands*  
Michel Mawad - *Lebanon*  
Fabienne Menu - *France*  
Hermann Monstadt – *Germany*  
Byung Moon Kim – *South Korea*  
Pasquale Mordasini - *Switzerland*  
Jacques Moret – *France*  
Peter Moskowitz - *USA*  
Thierry Moulin - *France*  
Kieran Murphy - *Canada*

Mario Muto - *Italy*  
Teresa Nawka - *Germany*  
Makoto Negoro - *Japan*  
Peter Kim Nelson - *USA*  
Danilo Olivares-Gomez - *Sweden*  
Darren Orbach - *USA*  
Boris Pabon – *Colombia*  
Chrysanthi Papagiannaki - *France*  
Andreas Patz - *Germany*  
Alessandro Pedicelli - *Italy*  
Vitor Mendes Pereira – *Canada*  
Hayette Petersen-Baltussen - *The Netherlands*  
Johannes Pfaff - *Germany*  
Thong Minh Pham - *Vietnam*  
Laurent Pierot – *France*  
Ronie Piske – *Brazil †*  
Per Poder - *Sweden*  
Sirintara Pongpech - *Thailand*  
Sarah Power - *Ireland*  
Panagiotis Primikiris – *Greece*  
Frédéric Ricolfi - *France*  
Howard Riina – *USA*  
George Rodesch - *France*  
Aymeric Rouchaud - *France*  
Howard Rowley - *USA*  
Daniel Roy - *Canada*  
Isil Saatci - *Turkey*  
Nobuyuki Sakai - *Japan*  
Lamin Saleh - *UK*  
Joanna Schaafsma - *Canada*  
Miyagi Shigeru - *Japan*

Yong Sam Shin - *South Korea*  
Adnan Siddiqui – *USA*  
Michael Söderman - *Sweden*  
Nader Sourour - *France*  
Laurent Spelle - *France*  
Dae Chul Suh - *South Korea*  
Maciek Szainer – *Poland*  
Istvan Szikora - *Hungary*  
Donatella Tampieri - *Canada*  
Michihiro Tanaka – *Japan*  
Hongyang Tang - *China*  
Christian Taschner - *Germany*  
Allan Taylor - *South Africa*  
Gioacchino Tedeschi - *Italy*  
Karel terBrugge - *Canada*  
Lucie Thibault - *Canada*  
Laurent Thines - *France*  
Sekiné Traore – *France*  
Annalisa Trianni - *Italy*  
Francis Turjman - *France*  
Luca Valvassori - *Italy*  
René Van den Berg - *The Netherlands*  
Adriaan Van Es - *The Netherlands*  
Wim Van Zwam - *The Netherlands*  
Rüdiger von Kummer - *Germany*  
Ajay Wakhloo – *USA*  
Zheng Wang - *China*  
Jason Wenderoth - *Australia*  
Christina Wetzel – *Germany*  
Hong Qui Zhang - *China*

Time	Monday 21 <sup>st</sup>						
	Auditorium Europa	Egadi Room	Eolie - Stromboli Room	Eolie - Panarea Room	Sicilia Room	Sardegna Room	E-Poster Area
08.15-09.50	Plenary Session 1 Stroke A						
09.50-10.00	Opening Ceremony						
10.00-10.30	Coffee Break						
10.30-12.00	Plenary Session 2 Stroke B						
12.00-13.00	Industry sponsored Symposium	Industry sponsored Symposium			Industry sponsored Symposium		
13.00-14.00	Lunch						
14.00-15.00	Main Session Topic 1 Radioprotection	Oral Papers Session A Spine / Tumors			Oral Papers Session B Material / Technique / Miscellaneous		14.00-15.00 E-poster Session 1 Stroke
15.00-16.00							15.00-16.00 E-poster Session 2 Stroke
16.00-16.30	Coffee Break						
16.00-17.00	Oral Papers Session C Stroke 1	16.30-17.42 Oral Papers Session D Spinal AV Shunts	Oral Papers Session F Stroke 2	Oral Papers Session G Stroke 3	Oral Papers Session H Stroke 4	Oral Papers Session I Stroke 5	16.00-17.00 E-poster Session 3 Carotid
17.00-18.30		17.42-18.30 Oral Papers Session E Pediatric					
19.00	Welcome Reception						



Tuesday 22 <sup>nd</sup>							
Time	Auditorium Europa	Egadi Room	Eolie - Stromboli Room	Eolie - Panarea Room	Sicilia Room	Sardegna Room	E-Poster Area
08.00-09.00	Plenary Session 3 Intracranial AVMs and Dural AVFs				ETMINT Symposium for Angiosuite Personnel Session A		8.00-9.00 E-poster <a href="#">Session 4</a> Aneurysms
09.00-10.00							9.00-10.00 E-poster <a href="#">Session 5</a> Aneurysms
10.00-10.30	Coffee Break						10.00-11.00 E-poster <a href="#">Session 6</a> Aneurysms
10.30-11.30	Plenary Session 4 Psychology in INR						11.00-11.15 E-poster <a href="#">Session 7</a> Vasospasm
11.30-13.00	2 <sup>nd</sup> MEETING Women in Neuro-Interventional Practise (including Angiosuite Personnel)						11.15-11.45 E-poster <a href="#">Session 8</a> AVM
13.00-14.00	Lunch						11.45-12.45 E-poster <a href="#">Session 9</a> AVF
		Industry sponsored Symposium	Industry sponsored Symposium				
14.00-16.30	Main Session Topic 2 Spine				Main Session Topic 3 Pediatric	ETMINT Symposium for Angiosuite Personnel Session B	
16.30-17.00	Coffee Break						
17.00-18.00	General Assembly						
20.00	San Carlo Theater and Social Dinner						

Wednesday 23 <sup>rd</sup>							
Time	Auditorium Europa	Egadi Room	Eolie - Stromboli Room	Eolie - Panarea Room	Sicilia Room	Sardegna Room	E-Poster Area
08.00-09.30	Plenary Session 5 Spinal AVMs/AVFs and Dural AVFs				ETMINT Symposium for Angiosuite Personnel Session C		
09.30-10.00	The Pierre Lasjaunias Memorial Lecture						
10.00-10.30	Coffee Break						
10.30-11.30	Plenary Session 6 Intracranial Stenosis				ETMINT Symposium for Angiosuite Personnel Session D		10.30-11.00 E-poster Session 10 Pediatric
11.30-13.00	Plenary Session 7 From Bench to Bed: Research and Development						11.00-11.20 E-poster Session 11 Spine
13.00-14.00		Industry sponsored Symposium					12.00-12.32 E-poster Session 12 Miscellaneous
	Lunch						
14.00-15.30	Oral Papers Session J AVMs 1	Oral Papers Session K Dural AVFs 1	Oral Papers Session L AVM/Dural AVFs 2/ Miscellaneous	Oral Papers Session M Aneurysms Multimodality / Surgery	Oral Papers Session N Aneurysms Coiling	Oral Papers Session O Aneurysms Stent assisted coiling	
15.30-16.00	Special Session The life of a Scientific Journal						
16.00-16.30	Coffee Break						
16.30-17.30	Plenary Session 8 Aneurysms (a)						16.30-17.00 Etmint
17.30-18.45	Oral Papers Session P Aneurysms Flow divertert stenting	Oral Papers Session Q Aneurysms Flow divertert stenting	Oral Papers Session R Aneurysms Flow divertert stenting	Oral Papers Session S Aneurysms Flow study Vessel wall imaging	Oral Papers Session T Aneurysms Intra-aneurysmal flow disruption	Oral Papers Session U Aneurysms Stent assisted coiling	

Thursday 24 <sup>th</sup>							
Time	Auditorium Europa	Egadi Room	Eolie - Stromboli Room	Eolie - Panarea Room	Sicilia Room	Sardegna Room	E-Poster Area
08.00-09.00	Oral Papers <b>Session V</b> Aneurysms <i>Fusiform / Dissecting</i>	Oral Papers <b>Session W</b> Aneurysms <i>Blood Blister Like / Ruptured</i>	Oral Papers <b>Session X</b> Aneurysms <i>Ruptured / Vasospasm</i>	Oral Papers <b>Session Y</b> Miscellaneous	Oral Papers <b>Session Z</b> Aneurysms <i>Imaging &amp; Follow-Up</i>	Oral Papers <b>Session ω</b> Miscellaneous	
09.00-10.00	Plenary Session 9 Aneurysms (b)						
10.00-10.10	Best Papers Award Ceremony						
10.10-10.30	Coffee Break						
10.30-12.00	Plenary Session 10 Aneurysms (c)						
12.00-13.00	Aneurysms (d)						
13.00-14.00	Lunch						
	Industry sponsored Symposium	Industry sponsored Symposium			Industry sponsored Symposium	Industry sponsored Symposium	
14.00-15.00	Plenary Session 11 How to introduce new devices? <i>Ethical and business considerations</i>						
15.00-16.00	Plenary Session 12 The future is today: New insights on NRI						
16.00	Closing Ceremony						

## SCIENTIFIC PROGRAM

Monday, 21<sup>st</sup> October 2019
**08.15-09.50 AUDITORIUM EUROPA**  
**Plenary Session 1: Stroke A**
**Chairperson:** T. Moulin, *France***Moderators:** T. M. Pham, *Vietnam* – P. Mordasini, *Switzerland*

- 08.15-08.30** Pre-thrombectomy Imaging: CT, MRI, Ultrasound Helmet  
**D. Dormont**, *France*
- 08.30-08.45** Pre-thrombectomy Imaging: The value of Perfusion and Collateral Imaging  
**H. Rowley**, *USA*
- 08.45-09.00** Radial approach in the endovascular management of stroke  
**P. Jabbour**, *USA*
- 09.00-09.15** Vessel Wall Imaging in Stroke: is there a role?  
**J. Schaafsma**, *Canada*
- 09.15-09.30** What does the neurologist expect from imaging in patients with a TIA?  
**D. Leys**, *France*
- 09.30-09.40** Artificial Intelligence in stroke care  
**B. Baxter**, *USA*
- 09.40-09.50** Discussion

**09.50-10.00 Opening Ceremony of the 15<sup>th</sup> WFITN Congress**
**10.00-10.30 Coffee Break**
**10.30-12.00 AUDITORIUM EUROPA**  
**Plenary Session 2: Stroke B**
**Chairperson:** M. Goyal, *Canada***Moderators:** W. Van Zwam, *The Netherlands* - P. Machi, *Switzerland*

- 10.30-10.45** Overview of Recent Trials and Techniques: aspiration vs stent or both?  
**P. Brouwer**, *Sweden*
- 10.45-11.00** Which patients should not be treated?  
**M. Goyal**, *USA*
- 11.00-11.15** Posterior Circulation Stroke: where are we?  
**J. Fiehler**, *Germany*

- 11.15 -11.30** Treatment of Tandem Lesions in acute Stroke  
**D. Frei, USA**
- 11.30-11.45** Results of clot composition research and the impact of histological clot composition in embolic stroke  
**S. de Meyer, Belgium**
- 11.45-11.55** Discussion

**11.55-12.00 Leonardi and Gallucci Awards**

- 12.00-13.00** AUDITORIUM EUROPA Industry sponsored Symposium  
EGADI ROOM Industry sponsored Symposium  
SICILIA ROOM Industry sponsored Symposium

- 13.00-14.00** Lunch

**14.00-16.00 AUDITORIUM EUROPA**  
**Parallel Main Session - Topic 1: Radioprotection**

**Chairperson:** M. Söderman, Sweden  
**Moderators:** W. Lee, Singapore – S. Husain, India

- 14.00-14.12** General Electric: Dose Reduction System in our Angio-Suite  
**B. Hassem, France**
- 14.12-14.24** Philips: Dose Reduction System in our Angio-Suite  
**M. Mauti, The Netherlands**
- 14.24-14.36** Siemens: Dose Reduction System in our Angio-Suite  
**P. Bernhardt, Germany**
- 14.36-14.48** Canon: Dose Reduction System in our Angio-Suite  
**A. Patz, Germany**
- 14.48-15.00** Discussion
- Chairperson:** W. Chong, Australia  
**Moderators:** F. Ricolfi, France - S. Renowden, UK
- 15.00-15.20** The real radiation risk for the neuro-interventionist and for the patient in INR procedures  
**A. Trianni, Italy**
- 15.20-15.40** How to be best protected against radiations for the neuro-interventionist  
**J. Pfaff, Germany**
- 15.40-16.00** Discussion



14.00-16.00	EGADI ROOM	O 001 to O 015
<b>Moderators:</b> M. Bellini, <i>Italy</i> - S.K. Lee, <i>USA</i>		
14.00-14.06	<p>O 001</p> <p>The 'Stent-Screw Assisted Internal Fixation' (SAIF) technique to reconstruct the vertebral body in severe osteoporotic spinal fractures with middle column involvement.</p> <p><b>D. Distefano, P. Scarone, M. Isalberti, M. Reinert, L. La Barbera, T. Villa, J.A. Hirsch, G. Bonaldi, A.Cianfoni, Switzerland, Italy, USA</b></p>	
14.08-14.14	<p>O 002</p> <p>The Stent-Screw Assisted Internal Fixation (SAIF) technique to reconstruct the vertebral body in neoplastic extreme osteolysis.</p> <p><b>A. Cianfoni, D. Distefano, P. Scarone, M. Reinert, G. Pesce, V. Espeli, L. La Barbera, T. Villa, G. Bonaldi, J.A. Hirsch, M. Isalberti, Switzerland, Italy, Usa</b></p>	
14.16-14.22	<p>O 003</p> <p>Pilot Study of Stent-Screw Assisted Internal Fixation (SAIF) technique for treatment of osteoporotic severe vertebral body collapse.</p> <p><b>M. Pileggi, R. Delfanti, M. Isalberti, D. Distefano, P. Scarone, A. Cianfoni, Switzerland, Italy, Usa</b></p>	
14.24-14.30	<p>O 004</p> <p>"Armed Kyphoplasty": an indirect central canal decompression technique in burst fractures.</p> <p><b>A.Venier, L. Roccatagliata, M. Isalberti, P. Scarone, D.E. Kuhlen, M. Reinert, B. Bonaldi, A. Cianfoni, Switzerland, Italy</b></p>	
14.32-14.38	<p>O 005</p> <p>Percutaneous laser cervical disc decompression with Discolux Siad System: evaluation of our clinical and radiologic experience of this new therapeutic modality in the cervical discal herniations.</p> <p><b>F. Fasano, G.E.M. La Tessa, A. Negro, V. D'Agostino, F. Somma, V. Piscitelli, C. Sicignano, M. Tecame, L. De Bellis, M. Prudente, O. Vargas, A. Pisani, G. Sirabella, Italy</b></p>	
14.40-14.46	<p>O 006</p> <p>Percutaneous laser disc decompression with Discolux Siad System: evaluation of our clinical and radiologic experience of this new therapeutic modality in the lumbar discal herniations.</p> <p><b>F. Somma, V. D'Agostino, A. Negro, O. Vargas, F. Fasano, C. Sicignano, V. Piscitelli, M. Tecame, M. Prudente, G. Sirabella, L. De Bellis, A. Pisani, G. La Tessa, Italy</b></p>	
14.48-14.54	<p>O 007</p> <p>Percutaneous cervical disc decompression with Deko (Sinteaplustek): evaluation of our clinical and radiologic experience of this new therapeutic modality in the cervical discal herniations.</p> <p><b>A. Negro, G. La Tessa, M. Tecame, F. Somma, F. Fasano, C. Sicignano, V. Piscitelli, M. Prudente, O.Vargas, L. De Bellis, A. Pisani, V. D'Agostino, G. Sirabella, Italy</b></p>	
14.56-15.02	<p>O 008</p> <p>Percutaneous lumbar disc decompression: evaluation of our clinical and radiologic experience of a new therapeutic modality in the lumbar discal herniations.</p> <p><b>M. Tecame, G. La Tessa, A. Negro, F. Somma, V. D'Agostino, E. Prudente, O. Vargas, F. Fasano, L. De Bellis, V. Piscitelli, C. Sicignano, A. Pisani, G. Sirabella, Italy</b></p>	

- 15.04–15.10** O 009  
Radiofrequency and vertebroplasty to treat vertebral metastases.  
**M. Muto, G. Leone, G. Ambrosanio, G. Guarnieri, M. Muto, Italy**
- 15.12–15.18** O 010  
Challenge for chronic intractable lumbosacral radicular pain: pulsed radiofrequency treatment and volumetric modifications of the lumbar dorsal root ganglia.  
**A. Negro, F. Somma, V. D'agostino, M. Arenella, F. Tortora, Italy**
- 15.20–15.26** O 011  
Percutaneous treatment of atypical and aggressive symptomatic vertebral hemangioma.  
**G. Leone, M. Muto, G. Ambrosanio, P. Vassallo, G. Guarnieri, M. Muto, Italy**
- 15.28–15.34** O 012  
Invasive vertebral hemangioma, management and role of interventional radiology.  
**A. Sultan, T. Hassan, A. Yehia, T. I. Metwally, Egypt**
- 15.36–15.42** O 013  
Pre-operative management of sporadic intradural extramedullary hemangioblastomas.  
**D. Tampieri, R. Alkins, A. Menard, J. Rossiter, Canada**
- 15.44–15.50** O 014  
Endovascular treatment of hypervascular brain tumors other than meningiomas.  
**L. Nico, J. Ognard, E. Magro, J. Gentric, France**
- 15.52–15.58** O 015  
Pre-operative direct-puncture embolization of head and neck hypervascular tumors using Squid 12.  
**A. Pedicelli, E. Lozupone, I. Valente, F. D'Argento, A. Alexandre, L. Chiumarulo, C. Colosimo, Italy**

**14.00-16.06****SICILIA ROOM****Oral papers - Parallel Session B: Material, Technique and Miscellaneous O 016 to O 031****Moderators:** C. Papagiannaki, France - B. Moon Kim, South Korea

- 14.00–14.06** O 016  
Usefulness of vessel models made with 3d printer in endovascular therapy.  
**T. Imai, T. Osanai, T. Soyama, D. Abo, K. Kudo, Japan**
- 14.08–14.14** O 017  
Non-X Ray Imaging System for simulators using 3d rapid prototyping model.  
**K. Fukasaku, H. Yokota, T. Kuchiura, M. Iwabuchi, Y. Ohya, M. Negoro, Japan**
- 14.16–14.22** O 018  
High-Resolution Cone-Beam CT in INR Procedures. Advances and new indications.  
**M. Tanaka, K. Kadooka, H. Saitoh, Japan**
- 14.24-14.30** O 019  
Flat Panel Computer Tomography in hybrid operating room for neurological intervention: a phantom and retrospective study.  
**A. El Mekabaty, C. Aberle, K. Blackham, D. Zumofen, Switzerland**

- 14.32–14.38** O 020  
Novel operation support robot with sensory-motor feedback system for neuroendovascular intervention.  
**S. Miyachi, Y. Nagano, T. Hironaka, R. Kawaguchi, T. Ohshima, N. Matsuo, R. Maejima, Japan**
- 14.40–14.46** O 021  
Endovascular transvenous access to brain tissue by trans-vessel wall technique.  
**R. Grankvist, J. Lundberg, F. Arnberg, M. Sandell, I. Jonsson, V. Lövljung, T. Tran, S. Jonsson, S. Holmin, Sweden**
- 14.48–14.54** O 022  
Magnetic Resonance guided focused ultrasound thalamotomy in essential tremor: single center 1-year experience.  
**E. Ciceri, S. Tamburin, M. Tinazzi, T. Bovi, A. Nicolato, M. Longhi, R. Foroni, S. Montemezzi, C. Bovo, A. Agnello, G. Ricciardi, Italy**
- 14.56–15.02** O 023  
Brain tissue iron quantification at the periphery of the hematoma by MRI in patients with intracerebral hemorrhage: translational evidence in first 10 patients.  
**N. Chaudhary, A. Pandey, J. Griauzde, J. Gemmete, G. Xi, R. Keep, USA**
- 15.04–15.10** O 024  
Can VW-MRI assess the difference between thunderclap headache in patients with aneurysms?  
**L. Cirillo, A. Rustici, C. Bortolotti, C. Princiotta, M. Dall'Olio, P. Cortelli, C. Sturiale, M. Cellerini, S. Cevoli, Italy**
- 15.12–15.18** O 025  
Effect of choice of treatment modality on the incidence of shunt-dependent hydrocephalus after aneurysmal subarachnoid hemorrhage.  
**M. Koyanagi, H. Fukuda, M. Saiki, Y. Tsuji, T. Kawasaki, Y. Ioroi, R. Fukumitsu, R. Ishibashi, M. Oda, O. Narumi, M. Chin, S. Yamagata, S. Miyamoto, Japan**
- 15.20–15.26** O 026  
Detectability and anatomical variations of perforating arteries from vertebral artery on 3D-DSA evaluated in patients with normal vertebral arteries.  
**S. Tanoue, H. Kiyosue, Y. Matsumaru, Y. Matsumoto, H. Endo, M. Hiramatsu, W. Tsuruta, M. Sato, M. Hirohata, T. Abe, Japan**
- 15.28–15.34** O 027  
Visualization of the human intracranial vasa vasorum in vivo.  
**L. Zhang, China**
- 15.36–15.42** O 028  
Staff eye-lens dose monitoring during interventional neuroradiology procedures.  
**S. Busoni, F. Rossi, S. Doria, S. Piffer, L. Redapi, S. Mangiafico, Italy**
- 15.44–15.50** O 029  
Safeguard manual assist technique for the management of femoral percutaneous access in cerebral neurovascular procedures: a single center prospective analysis.  
**F. Di Caterino, G. Vitale, E. Pomero, A. Biondi, France**

- 15.52–15.58** O 030  
Endovascular management of cranio-cervical arterial pathologies using Stent Graft.  
**M. Gupta, Nadarajah, L. Sebastian, S.B. Gaikwad, A. Garg, India**
- 16.00–16.06** O 031  
Retrospective analysis of Flow Diverter Therapy for internal carotid artery aneurysms regarding aneurysm morphology.  
**H. Oishi, Japan**
- 16.00-16.30** **Coffee Break**
- 16.30-18.30** **AUDITORIUM EUROPA**  
**Oral papers - Parallel Session C - Stroke 1** **O 032 to O 046**
- Moderators:** **M. Shigero, Japan - T. Andersson, Sweden**
- 16.30–16.36** O 032  
AAFITN acute stroke management consensus.  
**S. Miyachi, J. Mahadevan, W. Chong, Japan, Malaysia, Australia**
- 16.38–16.44** O 033  
Treatment of acute stroke - the japanese experience - project for spreading mechanical thrombectomy.  
**S. Miyachi, T. Ohshima, S. Okuda, I. Nakahara, M. Mase, T. Izumi, S. Yoshimura, N. Sakai, Japan**
- 16.46–16.52** O 034  
Effectiveness of ‘trip-and-treat’ for acute stroke patients undergoing endovascular reperfusion therapy.  
**M. Hayakawa, M. Sato, M. Yoshimura, A. Tsurumi, T. Kawai, H. Kasuya, T. Ohashi, K. Oshima, Y. Ito, A. Marushima, N. Kato, Y. Matsumaru, Japan**
- 16.54–17.00** O 035  
Mothership versus drip and ship - a retrospective analysis of a regional stroke registry with 2797 patients.  
**F. Seker, S. Bonekamp, S. Rode, S. Hyrenbach, M. Bendszus, M. Möhlenbruch, Germany**
- 17.02–17.08** O 036  
Impact of bridging thrombolysis on clinical outcome in stroke patients undergoing thrombectomy.  
**F. Seker, S. Bonekamp, S. Rode, S. Hyrenbach, M. Bendszus, M. Möhlenbruch, Germany**
- 17.10–17.16** O 037  
Geographic service delivery for endovascular clot retrieval: using discrete event simulation to optimise resources.  
**Y. Ren, M. Phan, J. Wu, P. Luong, D. Shell, M. Burney, C. Sean, J. Maingard, K. Zhou, A. Lamanna, H. Kok, R. Chandra, A. Jhamb, V. Thijs, D. Brooks, H. Asadi, Australia**

- 17.18–17.24** O 038  
Code stroke - a new open source communication platform to streamline acute stroke management.  
**H. Asadi, M. Lurny, J.W. M. P. A. D. L., V. Brooks, B. Gaulton, J. Maingard, G. Yazdabadi, J. Seah, J. Tang, C. Barras, H.K. Kok, B. Tahayori, R. Chandra, V. Thijs, D.M. Brooks, H. Asadi, Australia**
- 17.26–17.32** O 039  
Economic impact of First Pass Effect (FPE) in endovascular stroke treatment with the Embotrap II device from the Arise II study - annual healthcare resource use economic analysis from an european perspective.  
**T. Andersson, M. Ribo, H.P. Mattle, A. Ehm, C. Crivera, H.L. Cameron, R.A. Qadeer, O.O. Zaidat, Sweden, Spain, Germany, Usa**
- 17.34–17.40** O 040  
Procedural and hospitalization-related economic impact of First Pass Effect (FPE) in endovascular stroke treatment with the Embotrap II device from The Arise II Study – An european economic analysis.  
**T. Andersson, M. Ribo, H.P. Mattle, A. Ehm, C. Crivera, H.L. Cameron, R.A. Qadeer, O.O. Zaidat, Sweden, Belgium, Spain, Switzerland, Germany, Canada, Usa**
- 17.42–17.48** O 041  
Latam Experience: cost effectiveness of endovascular stroke therapy. Analysis from a colombian healthcare perspective.  
**B. Pabon, C. Diaz, J. Tellez, J. Arcos, P. Guijarro, C. Resendiz, Colombia, Mexico**
- 17.50–17.56** O 042  
Self-reported intraprocedural patient comfort during thrombectomy without prior sedation.  
**G. Jacquin, A. Poppe, L. Gioia, Y. Deschaintre, C. Odier, N. Daneault, A. Weill, D. Roy, J. Raymond, D. Iancu, D. Volders, J. Ghostine, C. Stapf, Canada**
- 17.58–18.04** O 043  
Thrombectomy in stroke patients without prior sedation: frequency of intraprocedural use of analgosedation.  
**G. Jacquin, L. Gioia, Y. Deschaintre, N. Daneault, C. Odier, A. Poppe, A. Weill, D. Roy, J. Raymond, D. Iancu, D. Volders, J. Ghostine, C. Stapf, Canada**
- 18.06–18.14** O 044  
Validation of a new scale allowing systematic evaluation of intraprocedural patient comfort during thrombectomy.  
**G. Jacquin, A. Poppe, L. Gioia, Y. Deschaintre, N. Daneault, C. Odier, A. Weill, J. Raymond, D. Iancu, D. Volders, J. Ghostine, C. Stapf, Canada**
- 18.16–18.22** O 045  
Validation of a new scale allowing systematic evaluation of operators' perception of procedural ease in thrombectomy without prior sedation.  
**G. Jacquin, A. Poppe, L. Gioia, Y. Deschaintre, N. Daneault, C. Odier, A. Weill, D. Roy, J. Raymond, D. Iancu, J. Ghostine, D. Volders, C. Stapf, Canada**
- 18.24–18.30** O 046  
The effect of procedural hemodynamic changes during anesthetic management on functional outcome after endovascular treatment for ischemic stroke: results from the Mr. Clean Registry.  
**N. Samuels, R. A. Van De Graaf, C.A.L. Van Den Berg, I. Eralp, K.M. Treurniet, B.J. Emmer, R.V. Immink, C.B.L.M. Majoie, W.H. Van Zwam, R.P.H. Bokkers, M. Uyttenboogaart, B.A.A.M. Van Hasselt, J. Mühling, B. Roozenbeek, H.F. Lingsma, D.W.J. Dippel, A.C.G.M. Van Es, A. Van Der Lugt, The Netherlands**

16.30-17.42	EGADI ROOM	O 047 to O 055
Oral papers - Parallel Session D - Spinal AV Shunts		

**Moderators:** D. Tampieri, *Canada* – S. Kominami, *Japan*

16.30–16.36	O 047 Spinal cord arteriovenous shunts and pregnancy; natural history and management. A monocentric study of 10 consecutive cases. <b>A. Consoli, M. Ohlsson, F. Di Maria, A. Sgreccia, G. Rodesch, France, Sweden, Italy</b>
16.38–16.44	O 048 Endovascular treatment of spinal AVM: report of three cases treated with transvenous approach in combination with the retrograde pressure cooker technique. <b>C.P. Stracke, M. Walloch, S.M. Pilgram-Pastor, E. Celik, R. Chapot, Germany</b>
16.46–16.52	O 049 Embolization of spinal dural AVF using the pressure cooker technique. <b>C.P. Stracke, S. Pilgram-Pastor, E. Celik, M. Wallocha, E. Yamac, R. Chapot, Germany</b>
16.54–17.00	O 050 Intraoperative Direct Puncture And Embolization Through The Drainage Veins For Sacral Vascular Malformation In Hybrid Operating Room: A Clinical Pilot Study For Safety And Feasibility <b>Y. Ma, H. Zhang, M. Ye, C. He, G. Li, L. Sun, T. Hong, C. Yang, F. Ling, China</b>
17.02–17.08	O 051 Concomitant conus medullaris arteriovenous shunts and sacral dural arteriovenous fistulas: pathophysiological links related to the venous drainage of the lesions in a series of five cases. <b>A. Rosi, F. Di Maria, A. Consoli, S. Condette-Auliac, O. Coskun, A. Guedon, G. Rodesch, France, Switzerland</b>
17.10–17.16	O 052 Clinical outcome and preoperative diagnosis of the spinal arteriovenous fistula using the usual and modified minimum intensity projection imaging. <b>S. Sato, Y. Niimi, T. Mochizuki, K. Yoshida, S. Shima, B. Ryu, T. Inoue, K. Kuwamoto, Y. Okada, Japan</b>
17.18–17.24	O 053 Significance of pre-operative angiographic diagnosis in cases of spinal dural and epidural arteriovenous fistula. <b>K. Nishi, M. Hiramatsu, K. Sugiu, T. Yasuhara, T. Hishikawa, N. Kidani, Y. Takahashi, S. Murai, I. Date, Japan</b>
17.26–17.32	O 054 Angioarchitecture and endovascular treatment for Cervical Epidural Arteriovenous Fistulas (CEAVFS). <b>Y. Niimi, S. Sato, T. Inoue, K. Kuwamoto, B. Ryu, S. Shima, T. Mochizuki, K. Yoshida, Y. Okada, Japan</b>
16.34–17.40	O 055 Embolization of cranial and spinal arteriovenous fistulas using precipitating hydrophobic injectable liquid (PHIL) in 9 patients. <b>R.H. Dahl, V. Eskesen, L. Poulsgaard, G. Benndorf, Denmark, Usa</b>

<b>17.42-18.30</b>	<b>EGADI ROOM</b>	
	<b>Oral papers - Parallel Session E - Pediatric</b>	<b>O 056 to O 061</b>

**Moderators:** **F. Causin**, *Italy* – **D. Roy**, *Canada*

<b>17.42–17.48</b>	O 056 Safety of selective supra-aortic arteries and superselective intracranial catheterization in pediatric population: 11-years experience. <b>T. Casseri, P. Gennari, S. Cioni, I. M. Vallone, S. Leonini, T. Hadjistilianou, S. De Francesco, D. Guglielmucci, M. Caini, R. Tinturini, F. Tarantino, S. Bracco</b> , <i>Italy</i>
<b>17.50–17.56</b>	O 057 Pediatric AVM treated with histoacryl glue embolization. Our experience. <b>E. Ciceri, A. Agnello, R. Augelli, N. Mandruzzato, A. Nicolato, M. Longhi, A. Pasqualin, G. Pinna, P. Biban, P. Zampieri</b> , <i>Italy</i>
<b>17.58–18.04</b>	O 058 Fetal and neonatal MRI findings associated with aggressive early clinical course in newborns with vein of Galen malformation. <b>L. Arko, D. Zurakowski, D. Orbach</b> , <i>Usa</i>
<b>18.06–18.12</b>	O 059 Large-bore neurovascular access for embolization of vein of Galen malformations in newborns and infants. <b>Y. Baytar, S. Balci, B. Bilginer, A. Arat</b> , <i>Turkey</i>
<b>18.14–18.20</b>	O 060 Endovascular management of vein of Galen aneurysms. <b>A. Sultan, T. Hassan, T. Rayan</b> , <i>Egypt</i>
<b>18.22–18.28</b>	O 061 Dural Sinus Malformation with Giant Pouch (DSMGP): symptoms and treatment. <b>F. Requejo</b> , <i>Argentina</i>

<b>16.30-18.30</b>	<b>STROMBOLI ROOM</b>	
	<b>Oral papers - Parallel Session F - Stroke 2</b>	<b>O 062 to O 076</b>

**Moderators:** **B. Pabon**, *Colombia* - **S. Mangiafico**, *Italy*

<b>16.30–16.36</b>	O 062 Multiphase CT Angiography as a patient selection tool for mechanical thrombectomy in anterior circulation stroke. <b>N. Witoon, A. Churojana, B. Sangpetngam, P. Withayasuk, E. Chankaew, T. Aurboonyawat, D. Songsaeng</b> , <i>Thailand</i>
<b>16.38–16.44</b>	O 063 8-months of Rapid (Rapid Processing of Perfusion and Diffusion) experience in stroke patient selection for endovascular treatment. <b>S. Piccinini, L. Verganti, F. Sacchetti, G. Zelent, F. Tari Capone, S. Vallone</b> , <i>Italy</i>
<b>16.46–16.52</b>	O 064 Evaluation of C-Arm CT Perfusion parameters for acute intracranial large artery occlusion before and immediately after mechanical thrombectomy. <b>H. Itokawa, M. Fujimoto, M. Moriya, N. Okamoto, Y. Tsuge, J. Sasanuma</b> , <i>Japan</i>

- 16.54–17.00** O 065  
A multiphase MRA collateral imaging: prediction of neurologic outcome in patients with acute ischemic stroke.  
**H.J. Kim, H.G. Roh, H.J. Lee, J.J. Park, S.B. Lee, Y.S. Jeon, T.J. Lee, Y.J. Jung, S.Y. Ryu, South Korea**
- 17.02–17.08** O 066  
Willisian collateral failure in anterior circulation mechanical thrombectomy: its consequences and bailout.  
**S. Lee, J.M. Hong, J.W. Choi, D. Kang, Y. Kim, Y. Kim, J. Hong, J. Yoo, C. Kim, S. Sohn, Y. Hwang, J.S. Lee, South Korea**
- 17.10–17.16** O 067  
Arterial Spin Labeling images in patients with acute middle cerebral artery ischemic stroke.  
**Y. Lee, J. Lee, D. Park, T. Kim, South Korea**
- 17.18–17.24** O 068  
Impact of basal ganglia damage after successful endovascular recanalization for acute ischemic stroke involving lenticulostriate arteries.  
**N. Horie, Y. Morofuji, Y. Iki, Y. Matsunaga, T. Kanamoto, T. Izumo, T. Anda, T. Matsuo, Japan**
- 17.26–17.32** O 069  
Relationship between 3-D rotational angiography and perforator infarction following percutaneous transluminal angioplasty for middle cerebral artery stenosis.  
**H. Yamazaki, M. Morimoto, C. Hikita, M. Iwasaki, Y. Inaka, S. Fukuta, H. Sato, Japan**
- 17.34–17.40** O 070  
Avoidance of perforator occlusion during endovascular treatment for the symptomatic intradural arterial stenosis with evaluation of the plaque by magnetic resonance wall imaging.  
**S. Kim, M. Ohtaki, N. Mikuni, Japan**
- 17.42–17.48** O 071  
Treatment of intracranial atherosclerosis disease with drug-coated balloon angioplasty.  
**A. Wang, C.H. Chang, China**
- 17.50–17.56** O 072  
Endovascular treatment in patients with large acute ischemic stroke.  
**Y. S. Jeon, H.G. Roh, H.J. Kim, J.J. Park, Y.I. Chun, J.W. Choi, S.B. Lee, South Korea**
- 17.58–18.04** O 073  
Efficacy and safety of endovascular thrombectomy for selected patients with large vessels occlusion beyond 6 hours after stroke.  
**M. Morimoto, M. Iwasaki, H. Yamazaki, C. Hikita, Y. Inaka, S. Fukuta, H. Satow, Japan**
- 18.06–18.12** O 074  
6 to 24 hours endovascular thrombectomy for large intracranial vessel occlusion without perfusion CT patient selection: single center experience.  
**A. Alexandre, F. Giubbolini, I. Valente, E. Lozupone, F. D'Argento, C. Colosimo, A. Pedicelli, Italy**
- 18.14–18.20** O 075  
Clinical outcome after thrombectomy in patients with pre-stroke Modified Rankin Scale >1.  
**K. Oda, T. Kojima, N. Sato, M. Oinuma, K. Horiuchi, T. Ichikawa, T. Maeda, T. Oikawa, K. Saito, Japan, China**
- 18.22–18.28** O 076  
Early venous drainage sign after mechanical thrombectomy in ischemic stroke predicts hemorrhagic transformation.  
**P. Gao, G. Li, J. Chen, L. Jiao, H. Zhang, China**



16.30-18.30	PANAREA ROOM	
	Oral papers - Parallel Session G - Stroke 3	O 077 to O 091
	<b>Moderators:</b> <i>Y. Matsumaru, Japan - H. Desal, France</i>	
16.30–16.36	O 077	Alternative vascular access in acute ischemic stroke patients with failed/impossible femoral access. <b>R. Abdalla, M. Sukumaran, <u>D. Cantrell</u>, B. Jahromi, M. Potts, A. Shaibani, M. Hurley, S. Ansari, USA</b>
16.38 – 16.44	O 078	Floating aortic thrombus: a rare cause of acute ischemic stroke necessitating modification of access route for thrombectomy. <b><u>S. Balci</u>, A. Arat, E.M. Arsava, M.A. Topcuoglu, Turkey</b>
16.46–16.52	O 079	Effectiveness of transradial neuroendovascular interventions for anterior circulation lesions as the first-line vascular access: original experience with a 6-FR Simmonds-type guiding sheath. <b><u>Y. Hanaoka</u>, J. Koyama, D. Yamazaki, T. Horiuchi, Japan</b>
16.54–17.00	O 080	This randomized study of endovascular therapy with versus without intravenous tissue plasminogen activator for acute stroke with ICA and M1 occlusion aims to clarify the efficacy and safety of direct EVT compared with bridging therapy. <b><u>Y. Matsumaru</u>, K. Suzuki, M. Takeuch, M. Morimoto, R. Kanazawa, Y. Kamiya, K. Shigeta, N. Ishii, Y. Takayama, Y. Koguchi, A. Hyodo, M. Hayakawa, T. Ota, S. Okubo, H. Naito, K. Akaji, N. Kato, M. Inoue, T. Hirano, K. Miki, T. Ueda, K. Kimura, Japan</b>
17.02–17.08	O 081	Prior antiplatelet use in patients undergoing endovascular treatment for acute ischemic stroke: results from the Mr. Clean Registry. <b><u>R. Van De Graaf</u>, S.M. Zinkstok, V. Chalos, R.B. Goldhoorn, C.B.L.M. Majoie, R.J. Van Oostenbrugge, A. Van Der Lugt, D.W.J. Dippel, Y.B.W.E.M. Roos, A.C.G.M. Van Es, B. Roozenbeek, The Netherlands</b>
17.10–17.16	O 082	How Safe And Useful Is Selective Intra-Arterial Administration Of Urokinase In Mechanical Thrombectomy Era? <b><u>N. Mandruzzato</u>, Augelli, A. Agnello, M. Plebani, P. Zampieri, A. Grazioli, G. Ricciardi, E. Ciceri, Italy</b>
17.18–17.24	O 083	Pre-morbid stat in treatment affects neuroimaging findings in acute ischemic stroke patients. <b><u>F. Di Giuliano</u>, F. Sallustio, E. Picchi, S. Minosse, A. Mascolo, F. Marrama, G. Koch, F. Alamseged, F. De Crescenzo, V. Da Ros, D. Morosetti, F. Garaci, M. Diomedi, R. Floris, Italy</b>
17.26–17.32	O 084	Mechanical thrombectomy for acute ischemic stroke in anticoagulated patients. <b><u>T. Kojima</u>, N. Sato, M. Oinuma, K. Horiuchi, T. Ichikawa, K. Oda, T. Maeda, K. Saito, Japan</b>

- 17.34–17.40** O 085  
The Impact of Nets in stroke and myocardial infarction.  
**T. Boeckh-Behrens, J. Novotny, C. Schulz, P. Oberdieck, B. Friedrich, H. Poppert, C. Zimmer, Germany**
- 17.42–17.48** O 086  
Investigating the effect of platelet contraction on the mechanical properties and microstructure of clot analogues with varying hematocrit.  
**S. Johnson, J.Y. Chueh, M.J. Gounis, M. Gilvarry, R. McCarthy, J.P. McGarry, P.E. Mchugh, Ireland, USA**
- 17.50–17.56** O 087  
An in-vitro study to examine changes in clot properties from exposure to recombinant tissue plasminogen activator and predict possible implications for mechanical thrombectomy in stroke.  
**S. Duffy, F. Weafer, A. Alone, E. Rainsford, R. McCarthy, Ireland**
- 17.58–18.04** O 088  
Interactive clot atlas enabling intuitive exploration and comparison of thrombus composition and the thrombectomy procedure.  
**S. Duffy, J. Thornton, M. Farrell, E. MacCarthy, R. McCarthy, Ireland**
- 18.06–18.12** O 089  
Association between acute ischemic stroke etiology and macroscopic aspect of retrieved clots.  
**A. Sgreccia, Z. Duchmann, J.P. Desilles, B. Lapergue, J. Labreuche, M. Kyheng, R. Bourcier, A. Consoli, Italy, France**
- 18.14–18.20** O 090  
Efficacy of Adapt technique in acute ischemic stroke: correlation with thrombus features.  
**D.G. Romano, E. Visconti, A. Pedicelli, E. Lozupone, I. Valente, R. Saponiero, Italy**
- 18.22–18.28** O 091  
Radiation exposure in modern endovascular stroke treatment – dose reference levels in anterior circulation ischemic stroke.  
**C. Weyland, F. Hemmerich, M.A. Möhlenbruch, M. Bendszus, J.A.R. Pfaff, Germany**
- 16.30-18.30** **SICILIA ROOM**  
**Oral papers - Parallel Session H - Stroke 4** **O 092 to O 106**
- Moderators:** **C. Tran Chi, Vietnam- G. Tedeschi, Italy**
- 16.30–16.36** O 092  
Identifying the predictors of first pass effect and its influence on clinical outcome in the setting of endovascular thrombectomy for acute ischemic stroke: results from a multicentric prospective registry.  
**F. Di Maria, M. Kyheng, A. Consoli, B. Gory, R. Fahed, S. Richard, G. Rodesch, J. Girot, C. Dargazanli, G. Marnat, B. Lapergue, R. Bourcier, France**
- 16.38–16.44** O 093  
Acute stroke thrombectomy using a direct aspiration first pass technique (ADAPT): results in 189 consecutive acute ischemic stroke patients treated in a single center in the last seventeen months. **F. Tagliatela, S. Iseri, C. Barbara, A. Zaniboni, G. Procaccianti, L. Cirillo, C. Princiotta, A. Zini, L. Simonetti, Italy**

- 16.46–16.52** O 094  
Multicenter experience with the Penumbra 3D revascularization device for mechanical thrombectomy in acute stroke: subset of the complete registry.  
**O. Zaidat, J. Fifi, A. Hassan, A. Nanda, A. Doerfler, USA, Germany**
- 16.54–17.00** O 095  
Initial multicenter experience with a new generation large bore catheter for acute stroke thrombectomy.  
**O. Zaidat, J. Fifi, B. Woodward, A. Hassan, USA**
- 17.02–17.08** O 096  
Efficacy of Adapt with large-bore reperfusion catheter in anterior circulation acute ischemic stroke: a multicentric experience.  
**D.G. Romano, G. Frauenfelder, A. Pedicelli, E. Lozupone, I. Valente, R. Saponiero, Italy**
- 17.10–17.16** O 097  
Distal intracranial large bore catheter navigation without microcatheter or microguidewire - The Sofia intermediate catheter snake35 technique.  
**M. Colasurdo, J.D. Gabrieli, G. Cester, D. Simonato, F. Causin, Italy**
- 17.18–17.24** O 098  
A novel swim technique using 6 FR Navien catheter as aspiration catheter in the treatment of acute ischemic stroke due to anterior circulation occlusion: a comparative study with SR thrombectomy in a single center.  
**Q. Zhang, J. Sun, X. Zhang, Z. Chen, China**
- 17.26–17.32** O 099  
Two-Stage Aspiration Technique (TSAT) with proximal flow arrest by a balloon guiding catheter for acute ischemic stroke: clinical results of 102 consecutive patients.  
**H. Nishiyama, H. Matsumoto, D. Izawa, N. Toki, Japan**
- 17.34–17.40** O 100  
Impact of balloon guide catheter on technical and clinical outcome in the beyond-SWIFT registry.  
**B. L. B. Brody, J. K. Kesel, C. Meier, T. Meier, J. Brocky, E. Piechowiak, M. Helaner, P. Mosimann, P. Michel, S. Hajdu, M. Ribo, M. Requena, V. Costalat, A. Benali, L. Pierot, M. Gawlitza, J. Schaafsma, V. Pereira, J. Gralla, U. Fischer, Germany, Switzerland, Spain, France, Canada**
- 17.42–17.48** O 101  
Efficacy of a balloon-assisted proximal aspiration in treating an occluded common carotid artery, intra and extracranial internal carotid artery.  
**D.L. Lauretti, A. Grigolini, G.A. Lazzarotti, M. Cosottini, Italy**
- 17.50–17.56** O 102  
Preliminary single center experience with the new Aperio thrombectomy device as a rescue approach after aspiration: first 30 cases.  
**N. Cavin, E. Cagliari, M. Cazzagon, A. Critelli, Italy**
- 17.58–18.04** O 103  
Mechanical Thrombectomy (MT) performed with Embotrap: the Verona hospital experience.  
**R. Augelli, A. Agnello, N. Mandruzzato, M. Conte, G.K. Ricciardi, M. Plebani, P.G. Zampieri, E. Ciceri, Italy**
- 18.06–18.12** O 104  
Treatment of distal branch occlusion in the middle cerebral artery territories: the Verona hospital experience.  
**R. Augelli, M. Conte, A. Agnello, N. Mandruzzato, G.K. Ricciardi, P.G. Zampieri, M. Plebani, A. Grazioli, A. Bucci, E. Ciceri, Italy**

**18.14–18.20** O 105  
Mechanical thrombectomy for isolated M2 segment occlusion of the middle cerebral artery.  
**T. Maeda, T. Kojima, N. Sato, M. Oinuma, K. Horiuchi, T. Ichikawa, K. Oda, K. Iwatate, M. Kawakami, K. Saito, Japan**

**18.22–18.28** O 106  
Refractory thrombectomy: who, when and how?  
**R. Abdalla, M. Darwish, D. Cantrell, M. Hurley, M. Potts, B. Jahromi, A. Shaibani, S. Ansari, USA**

**16.30–18.30 SARDEGNA ROOM**

**Oral papers - Parallel Session I - Stroke 5**

**O 107 to O 121**

**Moderators:** L. Valvassori, *Italy* - S. Bracco, *Italy*

**16.30–16.36** O 107  
Acute endovascular treatment of tandem lesion of the anterior circulation: an italian multicenter experience.  
**T. Casseri, S. Bracco, M. Zanoni, S. Cioni, I.M. Vallone, P. Gennari, S. Leonini, M.A. Mazzei, D.G. Romano, R. Saponiero, R. Augelli, N. Mandruzzato, M. Plebani, P.G. Zampieri, R. Tassi, G. Martini, S. Forlivesi, R. Napolitano, E. Ciceri, Italy**

**16.38–16.44** O 108  
Emergency carotid artery stenting in concomitant with intracranial thrombectomy in acute ischemic stroke: a single center experience.  
**E.H. Ihm, Y.Y. Seo, H.K. Lee, H.J. Woo, Y.M. Han, South Korea**

**16.46–16.52** O 109  
Acute thrombosis and occlusions of dual-layer carotid stents in endovascular treatment of tandem occlusions.  
**J.A.R. Pfaff, C. Maurer, E. Broussalis, H. Janssen, R. Blanc, C. Dargazanli, V. Costalat, M. Piotin, F. Runck, A. Berlis, M. Killer-Oberpfalzer, J. Hensler, M. Bendszus, F. Wodarg, M.A. Möhlenbruch, Germany, Austria, France**

**16.54 – 17.00** O 110  
Emergency stenting with ACCLINO flex and neurospeed balloon catheter after failed thrombectomy: multicenter experience.  
**C.P. Stracke, L. Meyer, H. Leischner, J. Fiehler, G. Thomalla, L.U. Krause, S. Lowens, R. Chapot, Germany**

**17.02–17.08** O 111  
Safety and feasibility of carotid revascularization with stents in patients with cerebral embolic strokes.  
**J. Kovoov, J. Tejada, M. Martinez, USA**

**17.10–17.16** O 112  
Multilayer Stent (CMFM) for carotid angioplasty: Buenos Aires experience.  
**C. Bleise, I. Lylyk, J. Chudyk, N. Perez, R. Viso, P. Lylyk, Argentina**

**17.18–17.24** O113  
A Retrospective multicenter study of endovascular treatment for acute carotid non-T occlusion.  
**T. Ota, K. Shigeta, T. Amano, J. Kaneko, Japan**

- 17.26–17.32** O 114  
Feasibility and potential complications associated with hybrid recanalization of chronic cerebral carotid occlusion.  
**X. Gao**, *China*
- 17.34–17.40** O 115  
Preliminary results of selective balloon dilatation after carotid artery stenting.  
**T. Izumi**, **M. Ishida**, **M. Nishihori**, **T. Tsukada**, **M. Otawa**, **R. Oshima**, **T. Kawaguchi**, **A. Kropp**, **M. Ikezawa**, **S. Goto**, **T. Wakabayashi**, *Japan*
- 17.42–17.48** O 116  
Asymptomatic cerebral vasoconstriction after carotid artery stenting.  
**C. Kang**, **J. Roh**, **J. Baek**, **S. Kim**, **S. Baik**, *South Korea*
- 17.50–17.56** O 117  
Effect of hemodynamics in development of carotid intraplaque haemorrhage.  
**M. Hayashi**, **S. Fujita**, **Y. Hiramoto**, **K. Aoki**, **N. Saito**, **N. Hirai**, **K. Ito**, **H. Nakayama**, **T. Sakurai**, **S. Yagi**, **N. Hattori**, **S. Iwabuchi**, *Japan*
- 17.58–18.04** O 118  
Stenting of stenosed posterior communicating artery for hemodynamic insufficiency caused by internal carotid artery occlusion.  
**X. Lu**, **B. Yang**, **Y. Ma**, **L.Q. Jiao**, *China*
- 18.06–18.14** O 119  
Endovascular treatment of acute basilar artery occlusion: tama-registry of acute thrombectomy (TREAT) study.  
**J. Kaneko**, **T. Ota**, **T. Tagami**, **K. Unemoto**, **K. Shigeta**, **T. Amano**, **M. Ueda**, **Y. Matsumaru**, **Y. Shiokawa**, **T. Hirano**, *Japan*
- 18.16–18.22** O 120  
Early aggressive treatment of the occlusion-underlying stenosis is associated with improved outcome in patients undergoing mechanical thrombectomy for basilar artery occlusion.  
**S. Nardai**, **B. Kis**, **I. Gubucz**, **Z. Berentei**, **P. Orosz**, **Z. Vajda**, **A. Nagy**, **I. Szikora**, *Hungary*
- 18.24–18.30** O 121  
Mechanical thrombectomy for tandem vertebrobasilar stroke; recanalization rates and outcome.  
**D. J. Kim**, **S.H. Baik**, **B.M. Kim**, **J.W. Kim**, *South Korea*

**19.00 - 21.00** **Welcome Reception**

Monday, 21<sup>st</sup> October 2019 E-Posters

14.00-15.00

E-POSTERS AREA

Poster Session 1: Stroke

P001 to P021

**Moderator:** F. Di Caterino, *France*

14.00-14.02

P 001

Optimising mechanical thrombectomy workflow through inter-disciplinary cross training in National Neuroscience Institute (NNI).

**B. Weng Fei, H. Sook Leng, Q. Yi Ping, Z. Almuthar, Singapore**

14.02-14.04

P 002

Temporal trends for endovascular treatments in acute ischemic stroke in Italy.

**V. Saia, G. Pracucci, P. Nencini, D. Inzitari, F. Sallustio, A. Zini, R. Tassi, R. Gasparotti, S. Vallone, M. Bergui, F. Causin, A. Saletti, F. Zappoli Thyron, M. Longo, E.G. Puglielli, R. Menozzi, L. Castellan, D. Toni, S. Mangiafico, Italy**

14.04-14.06

P 003

Acute ischaemic stroke treatment at AORN Cardarelli, Naples. A retrospective analysis of the first 250 patients.

**P. Candelaresi, G. Servillo, G. Alfieri, V. Andreone, W. Di Iorio, G. Maniscalco, V. Manzo, M. Napolitano, A. Ranieri, R. Renna, M. Rippa, G. Ambrosanio, G. Guarnieri, P. Vassallo, M. Benincasa, A. Iannuzzi, R. Nasti, F. Paladino, C. Florio, M. Muto, Italy**

14.06-14.08

P 004

Current status of thrombectomy call of acute ischemic stroke for single neurointerventionist in regional hospital.

**N. Matsubara, K. Ota, Japan**

14.08-14.10

P 005

Quality of revascularisation and clinical outcomes of stroke patients admitted during office hours versus night time or weekends in arise II.

**T. Andersson, H.P. Mattle, H. Bozorgchami, M. Ribó, J.L. Saver, O.O. Zaidat, Sweden, Switzerland, USA, Spain**

14.10-14.12

P 006

Rapid door to puncture time can increase the rate of favorable outcome and decrease the UNF.

**J. Aoki, K. Kentaro, S. Numao, A. Kutsuna, T. Katano, T. Kanamaru, K. Kimura, Japan**

14.12-14.14

P 007

Reducing of pre-procedural time reflects to improve mechanical thrombectomy treatment outcome in siriraj comprehensive stroke center: a comparison of pre-post stroke workflow.

**A. Homsud, Thailandia**

14.14-14.16

P 008

Colorviz: a new helpful processing tool for evaluation of acute stroke patient before interventional procedure.

**M.J. Kim, S.M. Lim, South Korea**

14.16-14.18

P 009

Emergent large vessel occlusion screen is an ideal scale to detect endovascular therapy eligible patients.

**K. Suzuki, Japan**

14.18-14.20

P 010

Comparison between MRI-DWI and pooled cerebral blood volume mapping before and after thrombectomy for acute cerebral artery occlusion.

**K. Yoshida, H. Oishi, Japan**

- 14.20-14.22** P 011  
Thrombectomy for acute ischemic stroke with large vessel occlusion for patient of late presentation: sub-analysis of rescue-Japan registry 2.  
**K. Uchida, S. Yoshimura, N. Sakai, H. Yamagami, T. Morimoto**, *Japan*
- 14.22-14.24** P 012  
The impact of occlusion location and bridging therapy in patients affected by acute ischemic stroke in determining the total number of passes required to remove the clot and the final revascularization outcome.  
**R. Rossi, S. Fitzgerald, O.M. Mereuta, A. Douglas, A. Pandit, I. Szikora, G. Tsivgoulis, K. Psychogios, B. Murphy, P. Brennan, S. Power, A. O'hare, J. Thornton, A. Rentzos, T. Tatlisumak, K.M. Doyle**, *Ireland, Hungary, Greece, Sweden*
- 14.24-14.26** P 013  
Manual aspiration thrombectomy with the PACMAN technique is non-inferior to pump to obtain first pass recanalization in middle cerebral artery occlusion.  
**V. Da Ros, J. Scaggiante, A. Di Martino, F. Sallustio, M. Diomedi, A. Wilderk, A. Bozzi, F. Di Giuliano, V. Semeraro, D. Morosetti, R. Argirò, M. Nezzo, R. Floris, R. Gandini**, *Italy*
- 14.26-14.28** P 014  
Endovascular therapy versus intravenous tissue plasminogen activator in patients with M2 occlusion.  
**S. Numao**, *Japan*
- 14.28-14.30** P 015  
The value of initially angiographic morphology in acute middle cerebral artery occlusion.  
**D.S. Kim, J.H. Sung, M.H. Lee**, *South Korea*
- 14.30-14.32** P 016  
The efficacy of recanalization in mechanical thrombectomy for acute ischemic stroke: a comparison of direct aspiration and stent retriever techniques.  
**A. Kolyanee, J. Klaychoi, N. Witoon, A. Churojana, P. Withayasuk, B. Sangpetngam, T. Aurboonyawat, E. Chankaew**, *Thailand*
- 14.32-14.34** P 017  
Effectiveness and safety of mechanical thrombectomy for acute ischemic stroke in over 80 years old patients.  
**K. Kitazawa, Y. Ito, M. Koyama, M. Toriyabe, H. Ohara, M. Minagawa**, *Japan*
- 14.34-14.36** P 018  
Transarterial selective cooling infusion with endovascular therapy for acute ischemic stroke with large vessel occlusion: protocol to investigate efficacy and safety of the randomized controlled trial.  
**A. Kutsuna, J. Aoki, S. Numao, K. Suzuki, T. Kanamaru, Y. Nishiyama, S. Okubo, K. Kazumi**, *Japan*
- 14.36-14.38** P 019  
Experimental comparison of physical properties depending on the unsheathing level of stent: solitaire versus trevo retriever.  
**H.J. Jeon, J.H. Ahn, J.Y. Lee**, *South Korea*
- 14.38-14.40** P 020  
Initial experience with the embotrap II stentriever for the treatment of acute ischemic stroke to report our experience with the embotrap II clot-retrieval device for the revascularization of large artery occlusions in acute ischemic stroke.  
**I. Valente, S. Nappini, L. Renieri, A. Pedicelli, E. Lozupone, C. Colosimo, S. Mangiafico, N. Limbucci**, *Italy*
- 14.40-14.42** P 021  
Removal of unwanted detached solitaire FR by using new solitaire FR-“distal capture and pull” technique: a case report.  
**J.H. Mun, B.S. Kim, J.S. Lim**, *South Korea*

15.00-16.00		E-POSTERS AREA
		Poster Session 2: Stroke
		P 022 to P 042
<b>Moderator:</b> M. Bergui, <i>Italy</i>		
15.00-15.02	P 022	Efficacy and safety of reperfusion therapy in anterior versus posterior circulation stroke. A systematic review and meta-analysis. <b>S.H. Lee, J. Han, I. Jung, J. Jung, South Korea</b>
15.02-15.04	P 023	Mortality of acute basilar artery occlusion in the thrombectomy era: a multicenter retrospective observational study – rescue Japan registry 2. <b>T. Yoshimoto, H. Yamagami, K. Uchida, M. Ihara, K. Toyoda, T. Morimoto, N. Sakai, S. Yoshimura, Japan</b>
15.04-15.06	P 024	Mechanisms of acute ischemic stroke in the setting of trauma. <b>Z. Voronich, D. Sorte, Island</b>
15.06-15.08	P 025	Prognosis of endovascular thrombectomy in acute ischemic stroke patients with current malignancy. <b>B.H. Cho, S. Yu, K. Cho, M. Park, South Korea</b>
15.08-15.10	P 026	Postpartum period and ulcerative colitis: a dangerous couple – a case report of an ischemic stroke. <b>S. Corraïne, A. Ferrari, F. Fusaro, F. Schirru, V. Palmisano, C. Ganau, S. Comelli, Italy</b>
15.10-15.12	P 027	Eagle syndrome, an unusual cause of acute ischemic stroke requiring a thrombectomy approach. <b>M. Plebani, P. Zampieri, A. Grazioli, R. Augelli, A. Gasparini, G. Talenti, S. Forlivesi, S. Forlivesi, E. Ciceri, Italy</b>
15.12-15.14	P028	Successful mechanical thrombectomy of embolic posterior circulation stroke at 23 hours after onset in a young female with cardiac myxoma. <b>V. Bhatia, A. Kumar, C. Jain, India</b>
15.14-15.16	P 029	Usefulness of total thrombus-formation analysis system in predicting hemorrhagic complications during neuroendovascular treatment. <b>K. Arimura, A. Nishimura, K. Iihara, Japan</b>
15.18-15.20	P 030	Risk prediction of parenchymal hematoma after endovascular thrombectomy for acute ischemic stroke with anterior circulation large vessel occlusion. <b>J. Kang, C.H. Kim, O.Y. Kwon, South Korea</b>
15.20-15.22	P 031	Analysis of the factors related to the failure of successful recanalization and the influence of thrombus length on swi, in stent retriever mechanical thrombectomy. <b>D.H. Lee, J.H. Sung, M.H. Lee, South Korea</b>



- 15.22-15.24** P 032  
Visualization of thrombus using flow-sensitive black-blood magnetic resonance angiography in patients with acute ischemic stroke: a possibility of determination of etiology.  
**M. Takagaki, A. Murasawa, K. Nakao, H. Nakamura, H. Kishima, Japan**
- 15.24-15.26** P 033  
Composition of retrieved thrombus assessed by morphological, histopathological and ex vivo MRI analysis  
**C. Yoon, P. Hyun, P. Ki-Jong, K. Young Soo, R. Jieun, B. Seung Kug, South Korea**
- 15.28-15.30** P 034  
Clot collection and analysis in the excellent registry  
**R. Qadeer, R. Nogueira, S. De Meyer, K. Doyle, J. Fiehler, W. Hacke, R. Hanel, T. Jovin, D. Kallmes, D. Liebeskind, A. Yoo, O. Zaidat, A. Siddiqui, Sweden, Belgium, USA, Ireland, Germany**
- 15.30-15.32** P 035  
Post-contrast hyperintense vessel on delayed gd-enhanced T1W TSE image in acute infarct  
**D. W. Park, T.Y. Kim, South Korea**
- 15.32-15.34** P 036  
Endovascular treatment for acute large vessel occlusion due to atherosclerosis.  
**M. Shirakawa, S. Yoshimura, N. Sakai, H. Yamagami, K. Uchida, T. Morimoto, Japan**
- 15.34-15.36** P 037  
Balloon angioplasty and stenting for intracranial atherosclerotic stenosis.  
**T. Ueda, S. Takaishi, T. Yoshie, N. Usuki, K. Tatsuno, Y. Hamada, H. Ohtsubo, Y. Suzuki, Japan**
- 15.36-15.38** P 038  
Usefulness of balloon expandable stenting for atherosclerotic severe stenosis of intracranial artery.  
**M. Hirohata, Japan**
- 15.38-15.40** P 039  
Prediction of underlying intracranial atherosclerotic stenosis using visibility of the stent during mechanical thrombectomy procedure for acute large artery occlusion.  
**B.H. Lee, J.W. Kim, Y.J. Hwang, South Korea**
- 15.40-15.42** P 040  
Risk factors for periprocedural complications of angioplasty/stent for intracranial stenosis.  
**H. Ishihara, F. Oka, T. Nishimoto, K. Okazaki, M. Suzuki, Japan**
- 15.42-15.44** P 041  
Bilateral ophthalmic artery occlusion in a case of antiphospholipid antibody syndrome.  
**W.B. Seung, H. Jeong, South Korea**
- 15.44-15.46** P 042  
Thrombectomy and stenting of an acute intracranial dissection: clinical and histological considerations.  
**J.D. Gabrieli, G. Cester, A. Angelini, M. Fedrigo, M. Colasurdo, D. Simonato, F. Causin, Italy**

<b>16.00-17.00</b>	<b>E-POSTERS AREA</b>	
	<b>Poster Session 3: Carotid</b>	<b>P 043 to P 068</b>

**Moderator:** P. Machi, *Switzerland*

- 16.00-16.02** P 043  
Management of tandem occlusion stroke with carotid stenting and intra-arterial Abciximab.  
**E. Portela De Oliveira, A. Cora, F. Essbaiheen, U. Erdenebold, M. Kassab, A. Qateen, B. Drake, H. Lesiuk, S. Finitis, D. Iancu, Canada**
- 16.02-16.04** P 044  
Endovascular recanalization of acute tandem cervical carotid and intracranial occlusions: efficacy of cervical balloon angioplasty alone then intracranial target recanalization strategy.  
**D. Kang, South Korea**
- 16.04-16.06** P 045  
Effect of emergent carotid artery stenting on cervical internal carotid artery occlusion or pseudo-occlusion with mild neurological deficits.  
**Y. Tsuboi, M. Narikiyo, H. Nagasaki, S. Nagao, C. Kambayashi, Japan**
- 16.06-16.08** P 046  
Pseudo-occlusion of the internal carotid artery in acute ischemic stroke: clinical outcome after mechanical thrombectomy.  
**W.S. Jung, Y.C. Lim, J.W. Choi, South Korea**
- 16.08-16.10** P 047  
Carotid artery dissection: natural history, selection criteria and endovascular technique based on our personal experience.  
**F. Tagliatela, S. Isceri, C. Barbara, L. Simonetti, Italy**
- 16.10-16.12** P 048  
Endovascular treatment in patients with carotid artery dissection without intracranial large vessel occlusion.  
**J.G. Kim, D. Lee, D. Suh, Y. Song, South Korea**
- 16.12-16.14** P 049  
Usefulness of intravascular ultrasound imaging navigating microwire in the true lumen in the acute ischemic stroke case due to spontaneous internal carotid dissection.  
**S. Saito, A. Takemura, N. Narita, H. Tomita, Japan**
- 16.14-16.18** P 050  
Navigation of a 6-french guiding sheath into the common carotid artery using a tri-axial catheter system in transbrachial carotid artery stenting.  
**S. Sakamoto, T. Matsushige, T. Okazaki, J. Oshita, K. Kurisu, Japan**
- 16.18-16.20** P 051  
Usefulness of triple coaxial system for navigating 9FR balloon guiding catheter in patients with specific aortic anatomy.  
**Y. Suzuki, N. Toma, R. Yasuda, Y. Miura, M. Shiba, H. Suzuki, Japan**
- 16.20-16.22** P 052  
Clinical results and technical considerations about a double-layer carotid stent: experience in 78 patients.  
**F. Tagliatela, S. Isceri, C. Barbara, L. Simonetti, Italy**

- 16.22-16.24** P 053  
The safety of carotid artery stenting in elderly patients.  
**M. Takasaki**, *Japan*
- 16.24-16.26** P 054  
Carotid artery stenting for restenosis following endarterectomy: periprocedural complications and long-term follow-up results.  
**H. Endo**, **K. Shindo**, **H. Sugio**, **T. Ogino**, **T. Murahashi**, **K. Kamiyama**, **Y. Seo**, **T. Osato**, **H. Nakamura**, *Japan*
- 16.26-16.28** P 055  
Treatment experience and characterization of Radiation–Induced Carotid Stenosis (RICS) in our hospital.  
**I. Oh**, *South Korea*
- 16.28-16.30** P 056  
Internal carotid artery stenosis with incomplete segmental agenesis: a case report.  
**T. Kawaguchi**, **T. Izumi**, **A. Kropp**, **M. Ikezawa**, **S. Goto**, **K. Otawa**, **R. Oshima**, **T. Tsukada**, **M. Nishihori**, **T. Wakabayashi**, *Japan*
- 16.30-16.32** P 057  
Case report: carotid artery stenting with persistent primitive hypoglossal artery.  
**K. Masato**, **K. Hideki**, **S. Kensaku**, **S. Nao**, *Japan*
- 16.32-16.34** P 058  
Prediction of cerebral hyperperfusion phenomenon after carotid endarterectomy or carotid stenting by computed tomography perfusion imaging.  
**K. Shindo**, **T. Ogino**, **H. Endo**, **H. Sugio**, **T. Murahashi**, **K. Kamiyama**, **T. Oosato**, **H. Nakamura**, *Japan*
- 16.34-16.36** P 059  
Assessment of cerebral hemodynamics using fluid-attenuated inversion recovery hyperintense vessels in patients with cervical internal carotid artery stenosis.  
**T. Nishimoto**, **H. Ishihara**, **F. Oka**, **M. Suzuki**, *Japan*
- 16.36-16.38** P 060  
Numerical analysis of the hemodynamics in the extracranial carotid artery before and after angioplasty with stent via CFD.  
**L.J. Haas**, **C.R. Schwatz**, **I.A.D. Fiamoncini**, **H.F. Meier**, **J.C.S.C. Bastos**, **G.V. Staedele**, **W.R. Berticelli**, **M. Becker**, **M.C. Harger**, **C.B. Lima**, **J. Martins**, **B.R. Sabel**, **F.J. Cobra**, **M.D. Soares**, **L.C.O. Camilo**, **V.D. De Almeida**, **C.G.J.L. Brasileiro**, **J.D. Hessmann**, **L.M. Silva**, **A. De Oliveira Junior**, **D. Malacarne**, **B. Sartori**, *Brazil*
- 16.38-16.40** P 061  
Cerebral blood flow changes along with staged angioplasty for the patients with carotid artery stenosis.  
**F. Oka**, **H. Ishihara**, **T. Oku**, **H. Yoshino**, **A. Kawano**, **T. Nishimoto**, **K. Okazaki**, **M. Suzuki**, *Japan*
- 16.40-16.42** P 062  
Carotid artery stenting using additional duplex-guidance.  
**T. Ohashi**, *Japan*



- 16.42-16.44** P 063  
Cerebral ischemia detected with diffusion-weighted magnetic resonance imaging in patients treated with carotid artery stenting: comparison of inserting embolic protection device before and after balloon predilatation.  
**K. Kwon, M. Byun**, *South Korea*
- 16.44-16.46** P 064  
Risk factors of ipsilateral, contralateral and vertebrobasilar microembolic infarctions following carotid artery stenting.  
**D.W. Park, T.Y. Kim**, *South Korea*
- 16.46-16.48** P 065  
Effect of general anesthesia on hemodynamic instability and periprocedural complications during carotid angioplasty and stent.  
**S. Cho, J. Kim**, *South Korea*
- 16.48-16.50** P 066  
Efficacy of carotid artery stenting under general anesthesia with an intraoperative monitoring.  
**T. Osanai, T. Aoki, M. Gekka, K. Houkin**, *Japan*
- 16.50-16.52** P 067  
Imaging follow up after carotid artery stenting with carotid wallstent using ct angiography.  
**T. Nomura**, D. Sasamori, T. Nonaka, T. Onda, Y. Yonemasu, S. Inamura Y. Hashimoto, O. Honda, M. Daibo, *Japan*
- 16.52-16.54** P 068  
Investigation of LDL cholesterol for in-stent plaque, post carotid artery stenting.  
**H. Wada**, K. Kamada, *Japan*

Tuesday, 22<sup>nd</sup> October 2019

08.00-10.00 AUDITORIUM EUROPA

**Plenary Session 3: Intracranial AVMs & Dural AVFs****Chairperson:** S. Pongpech, *Thailand***Moderators:** L. Lopez-Ibor, *Spain* – A.C. Januel, *France*08.00-08.15 Prediction of AVM rupture by biology and vessel wall imaging  
T. Krings, *Canada*08.15-08.30 Un-ruptured AVMs management: is there anything new under the sun?  
J.C. Gentric, *France*08.30-08.45 Update on the venous approach for the treatment of AVMs  
R. Chapot, *Germany*

08.45-09.00 Discussion

**Chairperson:** A. Malek, *USA***Moderators:** L. Biscoito, *Portugal* - S. Mangiafico, *Italy*09.00-09.15 Update on the surgical treatment of Dural AVFs  
L. Thines, *France*09.15-09.30 Update on the endovascular treatment of Dural AVFs  
L. Spelle, *France*09.30-09.45 Novel approaches for the treatment of cavernous sinus dural AVFs  
J. Wenderoth, *Australia*

09.45-10.00 Discussion

10.00-10.30 **Coffee Break**

10.30-11.30 AUDITORIUM EUROPA

**Plenary Session 4: Psychological and Behavioral aspects in INR****Chairperson:** M. Negoro, *Japan***Moderators:** D. Roy, *Canada* - Z. Kulcsár, *Switzerland*10.30-10.45 I had a major complication: how to manage the patient, its family and myself?  
What is it good to say and to do and what is it not?  
T. Leslie-Mazwi, *USA*10.45-11.00 Health Care Policy Update: Burn Out of the Neuro-Interventional Specialist  
J. Hirsch, *USA*11.00-11.15 How to improve the Work Life Balance  
P. Moskowitz, *USA*

11.15-11.30 Discussion



**11.30-13.00 AUDITORIUM EUROPA**  
**2<sup>nd</sup> Meeting – Women in Neuro-Interventional Practice**

**President:** R. Agid, *Canada*  
**Moderators:** I. Saatci, *Turkey* - J. Mahadevan, *Malaysia*

- 11.30 - 11.35** Opening remarks  
**R. Agid, Canada, I. Saatci, Turkey, A. Biondi, France**
- 11.35 - 12.05** Women in male dominant professions: what do we know?  
**N. Baxter, Canada**
- 12.05 - 12.30** Survey results: Women and Men in INR  
**R. Agid, Canada - S. Power, Ireland**
- 12.30 - 12.50** Debate: "Female vs male neurointerventionalists - Does gender influence actual practice? Are women as good as men?"  
**D. Roy, Canada – A.C. Januel, France**
- 12.50-13.00** WFITN plans for future support  
**J. Mahadevan, Malaysia - S. Pongpech, Thailand**
- 13.00-14.00** Lunch

<b>13.00-14.00</b>	<b>EGADI ROOM</b>	<b>Industry sponsored Symposium</b>
	<b>STROMBOLI ROOM</b>	<b>Industry sponsored Symposium</b>

**14.00-16.30 AUDITORIUM EUROPA**  
**Parallel Main Session - Topic 2: Spine**

**Chairperson:** I. Kaminsky, *USA*  
**Moderators:** K. Murphy, *Canada* - G. Bonaldi, *Italy*

- 14.00-14.15** Physiopathology of spine pain  
**J. Jennings, USA**
- 14.15-14.30** Spine metastasis: role of percutaneous treatment  
**A. Brook, USA**
- 14.30-14.45** Mini-invasive approaches to primary spine tumors  
**A. Cianfoni, Switzerland**
- 14.45-15.00** Osteoporosis and percutaneous management  
**M. Johnson, USA**
- 15.00-15.15** Mini-invasive approach to spine trauma  
**A. Kastler, France**
- 15.15-15.30** Disk and facets treatment

**S. Marcia, Italy**

**15.30-15.45** How do I manage spontaneous IC hypotension?  
**P. Mordasini, Switzerland**

**15.45-16.00** Percutaneous treatment of spinal stenosis  
**L. Manfrè, Italy**

**16.00-16.15** Do we need more EBM in spine intervention?  
**S. Kyu Lee, USA**

**16.15 -16.30** Discussion

## **14.00-16.30 SICILIA ROOM**

### **Parallel Main Session - Topic 3: Pediatric**

**Chairperson: A. Berenstein, USA**

**Moderators: A. Churojana, Thailand - S. Bracard, France**

**14.00-14.20** Pediatric cerebral AVMs: congenital or acquired lesions?  
**D. Orbach, USA**

**14.20-14.40** Complications in pediatric INR AVM management  
**G. Rodesch, France**

**14.40-15.00** New insights on the endovascular treatment of Vein of Galen Malformations  
**J. Moret, France**

**15.00-15.15** Discussion

**Chairperson: M. Mawad, Lebanon**

**Moderators: L. Hacein-Bey, USA - L. Lemme-Plaghos, Argentina**

**15.15-15.30** Flow Diversion Stenting in pediatric population  
**V. Pereira, Canada**

**15.30-15.45** Pediatric dissection and dissecting aneurysm  
**D. Orbach, USA**

**15.45-16.00** Pathogenesis and clinical aspects in Pediatric/Young Stroke  
**M. Kossorotoff, France**

**16.00-16.15** Pediatric stroke: medical or interventional treatment?  
**F. Causin, Italy**

**16.15-16.30** Discussion

**16.30-17.00** **Coffee Break**

## **17.00-18.00 AUDITORIUM EUROPA**

**General Assembly**

## Tuesday, 22<sup>nd</sup> October 2019 - ETMINT Symposium

**08.00-10.00**      **SICILIA ROOM**  
**Symposium for Angiosuite Personnel: Nurses, Radiographers and Technicians**  
*in cooperation with ESMINT*  
**Session A: Stroke**

**Moderators:** **A. Mastebroek**, *The Netherlands* - **K. Jones**, *Australia*

**08.00-08.05**      Opening  
**A. Mastebroek**, *The Netherlands* - **A. van Es**, *The Netherlands*

**08.05-08.25**      Workflow in an acute stroke center, the Croatian experience  
**J. Mamic**, *NRT, Croatia* - **I. Komesarovic**, *NRT, Croatia*

**08.25-08.45**      Pros and cons of a Mobile Stroke Unit  
**K. Keigher**, *NRT, USA*

**08.45-09.00**      Thrombectomy in children  
**A. van Es**, *MD, The Netherlands*

**09.00-09.20**      Specificities of peri-procedural management of children undergoing neurointerventional procedures  
**J. Ducasse**, *NRT, France*

**09.20-09.40**      Pros and cons of mechanical aspiration  
**P. Brouwer**, *MD, Sweden* - **T. Andersson**, *MD, Sweden*

**09.40-10.00**      Young stroke website  
**H. Petersen-Baltussen**, *NRT, The Netherlands*

**10.00-10.30**      **Coffee Break**

**11.30-13.00**      **AUDITORIUM EUROPA**  
**2<sup>nd</sup> Meeting – Women in Neuro-Interventional Practice**

**13.00-14.00**      **Lunch**

**14.00-16.30**      **SARDEGNA ROOM**  
**Symposium for Angiosuite Personnel: Nurses, Radiographers and Technicians**  
*in cooperation with ESMINT*  
**Session B: Miscellaneous**

**Moderators:** **D. Olivares-Gomez**, *Sweden* - **H. Genins**, *Sweden*

**14.00-14.20**      Thrombectomy techniques. Experience with radial access  
**T. Bertram**, *NRT, Germany*





- 14.20-14.40**      Nursing coordination for hybrid recanalization of occluded carotid artery  
**H. Zhang**, *NRT, China*
- 14.40-15.00**      Mechanical thrombectomy – many ways to remove the clot  
**T. Andersson**, *MD, Sweden*
- 15.00-15.20**      Education for technicians in stroke  
**W. H. Van Zwam**, *MD, The Netherlands*
- 15.20-15.40**      INR and AI, reality or not?  
**F. Menu**, *NRT, France*
- 15.40-16.00**      Biological optimization of endovascular vascular treatment of aneurysms  
**A. Rouchaud**, *MD, France*
- 16.30-17.00**      **Coffee Break**

Tuesday, 22<sup>nd</sup> October 2019 E-Posters

08.00-09.00		E-POSTERS AREA
		Poster Session 4: Aneurysms
		P 069 to P 093
<b>Moderator:</b> Z. Kulcsár, <i>Switzerland</i>		
08.00-08.02	P 069	Endovascular treatment of 31 anterior choroidal artery aneurysms. <b>T. Sugawara, N. Kimura, M. Yokosawa, R. Doijiri, K. Takahashi, T. Kikuchi, Japan</b>
08.02-08.04	P 070	Embolization for internal carotid-posterior communicating artery aneurysm. <b>M. Ezura, H. Sakata, H. Uenohara, Japan</b>
08.04-08.06	P 071	Coil embolization for unruptured cerebral aneurysm in elderly people (over 70 years old). <b>K. Orito, S. Kajiwara, Y. Takeuchi, M. Hirohata, M. Morioka, Japan</b>
08.06-08.08	P 072	Treatment outcomes of coil embolization for subarachnoid hemorrhage in patients over 80 years of age. <b>K. Fukutome, S. Takai, R. Matsuoka, R. Maeoka, K. Takahashi, H. Ohnishi, S. Yamamoto, T. Nishioka, Y. Kodama, Y. Kuga, H. Ohnishi, Japan</b>
08.08-08.10	P 073	The results of endovascular treatment for elderly cerebral aneurysm in the super-aging society age. <b>R. Yagi, R. Hiramatsu, H. Ohnishi, N. Matsubara, S. Miyachi, T. Kuroiwa, S. Kawabata, Japan</b>
08.10-08.12	P 074	Cost-effectiveness analysis of coil embolization for small cerebral aneurysms. <b>T. Ueno, Japan</b>
08.12-08.14	P 075	Usefulness of aneurysm analysis software for determination of optimal working projection in coil embolization of intracranial aneurysms. <b>N. Iwata, M. Sakamoto, Japan</b>

- 08.14-08.16** P 076  
The timing of coil embolization for aneurysmal subarachnoid hemorrhage.  
**T. Koiso, T. Sato, N. Hashimura, T. Ishiguro, H. Chikuie, G. Ikeda, E. Hamano, M. Nishimura, J. Takahashi, Japan**
- 08.16-08.18** P 077  
Long-term durability of simple and balloon-assisted coil embolization for treatment of intracranial aneurysms.  
**Y. Kayan, J. Delgado Almandoz, J. Scholz, A. Milner, M. Mulder, USA**
- 08.18-08.20** P 078  
Prospective registry of embolization of intracranial aneurysms using hydrosoft coils: results of the Japanese hydrosoft registry.  
**H. Imamura, N. Sakai, Y. Ito, C. Sakai, A. Hyodo, S. Miyachi, Y. Matsumaru, S. Yoshimura, T. Abe, H. Yamagami, M. Hayakawa, H. Sato, T. Fujinaka, K. Tanabe, Japan**
- 08.20-08.22** P 079  
Comparison of surgical clipping vs endovascular coiling for posterior projecting anterior communicating artery aneurysm.  
**N.U.H. Maria, U. Rasheed, Pakistan**
- 08.22-08.24** P 080  
Multimodality treatment for coil migration during endovascular embolization.  
**S.Y. Chung, South Korea**
- 08.24-08.26** P 081  
Acute treatment strategy and perioperative management of ruptured cerebral aneurysm accompanied with hematoma.  
**K. Muraoka, Y. Kegoya, Y. Sotome, Y. Matsuda, Y. Sato, T. Tanabe, N. Hirotsune, S. Nishino, Japan**
- 08.26-08.28** P 082  
Salvage of coil embolization with nbca for a ruptured aneurysm.  
**S. Echizenya, M. Kawabori, K. Hurukawa, M. Iwasaki, T. Osanai, Y. Niiya, Japan**
- 08.28-08.30** P 083  
Intraprocedural rupture management for intracranial aneurysm rupture during coil embolization by manual common carotid artery compression.  
**J.H. Kim, South Korea**
- 08.30-08.32** P 084  
Analysis of the recanalization of brain aneurysms post embolization.  
**L.J. Haas, G.V. Staedele, W.R. Berticelli, M. Becker, M.C. Harger, C.B. Lima, J. Martins, B.R. Sabel, F.J. Cobra, M.D. Soares, L.C.O. Camilo, V.D. De Almeida, C.G.J.L. Brasileiro, J.D. Hessmann, L.M. Silva, B. Sartori, D. Malacarne, A. De Oliveira Junior, D. De Lara, F.L. Cabral, C.I.C. Bernardes, V.H.T. Boer, L.R.G.O. Mello, Brazil**
- 08.32-08.34** P 085  
Recurrence of aneurysm with incorporated aneurysm after coil embolization.  
**H.J. Bae, South Korea**
- 08.34-08.36** P 086  
De novo intracranial aneurysms detected on imaging follow-up of coiled aneurysms in Korean population.  
**C. Ryu, Y. Cho, E. Yeon, E. Kim, South Korea**

- 08.36-08.38** P 087  
Impact of reducing the procedure time on thromboembolism after coil embolization of cerebral aneurysms.  
**H.J. Choi, J.P. Jeon, J.S. Yang, S.H. Kang, Y.J. Cho, S.H. Lee, South Korea**
- 08.38-08.40** P 088  
Suspected distal embolization of metallic material during cerebral aneurysm coiling: detection using susceptibility weighted MR imaging.  
**D.H. Yoo, Y.D. Cho, H.S. Kang, South Korea**
- 08.40-08.42** P 089  
Cross-regional embolization technique in the treatment of intracranial irregular aneurysm.  
**Y. E., Z.L. China**
- 08.42-08.44** P 090  
Scaffolding technique: a new double-catheter technique in the coil embolization of wide-necked aneurysms.  
**K. Murao, Japan**
- 08.44-08.46** P 091  
Proposal of shaping for micro catheter by three-dimensional imaging.  
**K. Fukasaku, H. Yokota, K. Takahashi, H. Yoshioka, F. Saito, M. Negoro, Japan**
- 08.46-08.48** P 092  
Extra-cranial internal carotid artery aneurysms: results and outcome after surgical and endovascular treatment.  
**F. Tagliatela, A. Sonetto, S. Iseri, C. Barbara, A. Pilato, G. Faggioli, M. Gargiulo, L. Simonetti, Italy**
- 08.48-08.50** P 093  
Treatment of pseudoaneurysm of internal maxillary artery resulting from needle injury - case report.  
**J.Y. Kim, J.W. Choi, Y.M. Koo, South Korea**

**09.00-10.00****E-POSTERS AREA****Poster Session 5: Aneurysms****P 094 to P 118****Moderator: S. Gallas, France**

- 09.00-09.02** P 094  
Endovascular treatment of extracranial pseudoaneurysm by flow diversion technique.  
**F. Petra, A. Aguado, G. Caballero, J. Lizundia, M. Grana, L. Parra, Argentina**
- 09.02-09.04** P 095  
Stent assisted revascularization of acute subarachnoid haemorrhage.  
**A. Ullrich, M. J. Shah, V. Chittala, S. Ayres, South Korea, India**
- 09.04-09.06** P 096  
A radiologic and clinical comparison of neuroform ATLAS and LVIS jr stent assisted coil embolization for unruptured cerebral aneurysms in distal small branches.  
**J.W. Baek, H.W. Jeong, S.T. Kim, Y.G. Jeong, J.H. Seo, S.C. Jin, O.K. Kwon, South Korea**

- 09.06-09.08** P 097  
Rescue stenting using the neuroform atlas stent during coil protrusion for ruptured intracranial aneurysms.  
**V. Semeraro, M. P. Ganimede, S. Vidali, E. Lozupone, N. M. Lucarelli, V. Gisone, M. Resta, N. Burdi, Italy**
- 09.08-09.10** P 098  
The use of bare stent in less than 2.0 mm cerebral artery for aneurysm treatment.  
**H. Yoshioka, T. Uno, A. Kambe, H. Takeuchi, M. Sakamoto, M. Kurosaki, Japan**
- 09.10-09.12** P 099  
Antiplatelet therapy for stent-assisted coil embolization of cerebral aneurysms.  
**H. Fukumoto, Y. Horio, K. Fukuda, M. Iwaasa, K. Nii, T. Inoue, T. Higashi, Japan**
- 09.12-09.14** P 100  
A case of symptomatic multiple cerebral enhancing lesions after stent-assisted coil embolization of unruptured cerebral aneurysm.  
**M. Katayama, M. Murase, S. Suga, S. Suga, Japan**
- 09.14-09.16** P 101  
Treatment of unruptured intracranial aneurysms using the pipeline embolization device: a single-center experience with short-term follow-up results.  
**M. Zhou, H. Lu, G. Li, H. Zhang, China**
- 09.16-09.18** P 102  
A single-center experience with flow-diverter devices for intracranial unruptured aneurysm treatment.  
**T.K. Jee, P. Jeon, South Korea**
- 09.18-09.20** P 103  
Efficacy and safety of flow diverter stents in the treatment of cerebral aneurysms less than five mm.  
**E. Akgul, H. B. Onan, H..T. Balli, Z. Gungoren, E .H. Aksungur, Turkey**
- 09.20-09.22** P 104  
Flow-diverter stents in aneurysmal subarachnoid hemorrhage.  
**A. Alexandre, F. Giubolini, G. Garignano, I. Valente, E. Lozupone, F. D'argento C. Colosimo, A. Pedicelli, Italy**
- 09.22-09.24** P 105  
Single center experience in mini flow-diverter aneurysm embolization.  
**N. Marotti, U. Rozzanigo, G. Luppi, A. Comai, F. Ferro, G. Nano, M. Bonatti, B. Petralia, Italy**
- 09.24-09.26** P 106  
Stentriever anchor technique during aneurysms embolization with flow-diverter.  
**G. Garignano, E. Lozupone, A. Alexandre, F. D'Argento, I. Valente, A. Pedicelli, Italy**
- 09.26-09.28** P 107  
Delayed high jet flow into an aneurysm after flow diverter placement.  
**R. Nakae, T. Takigawa, Y. Kawamura, Y. Tanaka, M. Nagaishi, A. Hyodo, K. Suzuki, H. Yokota, Japan**

- 09.28-09.30** P 108  
Open versus flow diversion treatment of small unruptured carotid-ophthalmic aneurysms: a systematic review.  
**E. Paschoal, C. R. Orocha, A. C. Pires, L. Lobato, F. LA. Tobelem, L. Msantos, M. Isr, A. Ldcosta, F. M Paschoal Jr, R. Mrburbano, J. Rn Brito, J. Srogerio, Â. R-Dos-Santos, J. Aslima, A. de M. Lima Neto, Brazil**
- 09.30-09.32** P 109  
Factors associated with ipsilateral distant subarachnoid hemorrhage after flow diverter placement.  
**T. Kikuchi, A. Ishii, M. Okawa, Y. Yamao, H. Nishi, I. Ono, S. Miyamoto, Japan**
- 09.32-09.34** P 110  
Delayed rupture of ic cavernous large aneurysm after ped treated by transarterial coil/onyx embolization.  
**I. Nakahara, S. Matsumoto, Y. Suyama, J. Oda, A. Hasebe, T. Suzuki, J. Tanabe, S. Watanabe, K. Suyama, Japan**
- 09.34-09.36** P 111  
In vivo aneurysm pressure transition for several hours after placement of a pipeline embolization device.  
**H. Chihara, A. Ishii, T. Kikuchi, H. Ikeda, D. Arai, S. Miyamoto, Japan**
- 09.36-09.38** P 112  
Application of 3D fusion in pipeline apposition evaluation.  
**Y. Liu, China**
- 09.38-09.40** P 113  
Occlusion rate of flow diverter depends on aneurysm morphology.  
**T. Sunohara, N. Sakai, H. Imamura, S. Tani, H. Adachi, R. Fukumitsu, N. Fukui, Y. Oomura, T. Akiyama, T. Fukuda, Japan**
- 09.40-09.42** P 114  
Neurointerventional management of large or giant aneurysm in the circle of Willis by using physiologic flow diversion.  
**B. Kwon, Y. Song, J. Ryu, D.C. Suh, Japan**
- 09.42-09.44** P 115  
Comparison of hemodynamic stress of healthy side artery in parent artery occlusion and flow diverter stent treatment for large internal carotid artery aneurysm with 3D cine PCMR analysis.  
**T. Tsukada, T. Izumi, M. Nishihori, R. Ooshima, T. Kawaguchi, K. Ootawa, A. Kropp, S. Gotou, M. Ikezawa, H. Isoda, T. Wakabayashi, Japan**
- 09.44-09.46** P 116  
Mega giant partially thrombosed aneurysm of the anterior communicating artery: an astonishing surgical treatment and clinical outcome.  
**C. Bombardieri, C. Ceccotti, K. Pardatscher, T. Fukushima, Italy, USA**
- 09.46-09.48** P 117  
A single-center experience in the endovascular treatment of carotid siphon aneurysms using the WILLIS covered stent.  
**C. Fang, L. Ma, J. Xu, S. Yan, H. Feng, China**
- 09.48-09.50** P 118  
Long-term follow-up of intracranial fusiform aneurysms of vertebral arteries.  
**S. Kohyama, S. Iihoshi, S. Kasakura, S. Yoshikawa, E. Tsukagoshi, F. Yamane, Japan**

10.00-11.00		E-POSTERS AREA
		Poster Session 6: Aneurysms
		P 119 to P 142
		<b>Moderator:</b> L. Biscoito, Portugal
10.00-10.02	P 119	Bilateral vertebral artery dissecting aneurysm: compressing brain stem, hidden aneurysm. <b><u>K. Chae</u>, Y. Choo, S. Lee</b> , South Korea
10.02-10.04	P 120	Lateral medullary infarction after distal vertebral artery trapping for management of dissecting aneurysm. <b>J.W. Choi, <u>Y.S. Seo</u>, D.H. Kim, J.Y. Kim</b> , South Korea
10.04-10.06	P 121	Endovascular treatment with stents for ruptured dissecting aneurysms. <b><u>A. Ito</u>, Y. Suzuki, Y. Oyama, K. Uno, M. Miyamoto, K. Hoya, F. Yamane, A. Matsuno</b> , Japan
10.06-10.08	P 122	Delayed development of de novo contralateral vertebral artery dissecting aneurysm after endovascular treatment (2 cases). <b><u>J. Cho</u>, Y. Kwak</b> , South Korea
10.08-10.10	P 123	Endovascular treatment of dissecting aneurysm of the posterior communicating artery. <b><u>T. Kataoka</u>, K. Takahira</b> , Japan
10.10-10.12	P 124	A case of early migration of intracranial stent after dissection aneurysm treatment. <b><u>J. Cho</u>, S. Kim, K. Cho, Y. Na, M. Kang, Y. Na, Y. Lee</b> , South Korea
10.12-10.14	P 125	A ruptured recurrence aneurysm of posterior inferior cerebellar artery associated with persistent primitive hypoglossal artery. <b><u>T. Naito</u>, T. Hasegawa, T. Kato, T. Tanei, K. Ishii, E. Tsukamoto</b> , Japan
10.14-10.16	P 126	Clinical and angiographic outcome of ruptured blood blister-like aneurysms of the internal carotid artery with stents-assisted coil embolization: single center experience. <b><u>Y.K. Ihn</u>, J.H. Sung, D.H. Lee, H.J. Lee, J.H. Shin</b> , South Korea
10.16-10.18	P 127	Complementary functions of open surgery and endovascular treatment in ruptured internal carotid artery dorsal wall aneurysm (2 cases). <b><u>J. Cho</u>, Y. Kwak</b> , South Korea
10.18-10.20	P 128	Re-rupture of a “successfully treated” dissecting ICA aneurysm. <b><u>U.M. Ciochon</u>, G. Gal, G. Benndorf</b> , Denmark
10.20-10.22	P 129	Effectiveness of parent artery occlusion with NBCA and coils for peripheral cerebral artery aneurysm. <b><u>S. Fujita</u>, M. Hayashi, R. Suzuki, N. Hirai, Y. Hiramoto, H. Nakayama, N. Saito, K. Ito, K. Aoki, S. Iwabuchi</b> , Japan

- 10.22-10.24** P 130  
Intracranial mycotic aneurysms caused by an extremely rare bacterium, *Corynebacterium Diphtheriae* in developing country.  
**E. Chanthanaphak, V. Suraratdecha, S. Chaovorawinyoo, M. Apirakkan**, *Thailand*
- 10.24-10.26** P 131  
Unusual presentation of infectious intracranial aneurysm with sequential hemorrhagic and ischemic components.  
**J.H. Ko, J.W. Chung, J.S. Ahn**, *South Korea*
- 10.26-10.28** P 132  
Small aneurysms may grow fast.  
**N. Fujumura, S. Nakashima, T. Aoki, R. Sakamoto, Y. Okamoto, M. Morioka**, *Japan*
- 10.28-10.30** P 133  
Vessel wall imaging of unruptured intracranial aneurysms.  
**T. Matsushige, K. Shimonaga, T. Mizoue, H. Takahashi, Y. Hashimoto, M. Kaneko, C. Ono, S. Sakamoto, K. Kurisu**, *Japan*
- 10.30-10.32** P 134  
3D HR MR VWI (3-dimensional high-resolution magnetic resonance vessel wall imaging) for the evaluation and management of cerebral aneurysms.  
**S. Suh, W. Yoon, H. Roh, H. Bae, T. Kwon**, *South Korea*
- 10.32-10.34** P 135  
Aneurysm wall enhancement a biomarker of aneurysm progression?  
**E. Paschoal, L. Batista, M. Piani, G. A Lien**, *Brazil*
- 10.34-10.36** P 136  
Quantitative wall enhancement of unruptured aneurysms on vessel wall imaging MRI is associated with growth on delayed angiography.  
**M. Alexander, A. De Havenon, J. McNally, A. Elkhatali, D. Parker, S. Kim, P. Taussky, R. Grandhi**, *USA*
- 10.36-10.38** P 137  
Quantitative wall enhancement increases with size of unruptured aneurysm on vessel wall imaging MRI.  
**M. Alexander, A. De Havenon, J. McNally, A. Elkhatali, D. Parker, S. Kim, P. Taussky, R. Grandhi**, *USA*
- 10.38-10.40** P 138  
Persistent enhancement of unruptured cerebral aneurysm following endovascular treatment compared to untreated aneurysms.  
**M. Alexander, A. De Havenon, J. McNally, A. Elkhatali, D. Parker, S. Kim, P. Taussky, R. Grandhi**, *USA*
- 10.42-10.44** P 139  
Creation of elastase-induced aneurysms in rabbits.  
**Y. Zhang, Y. He, T. Li**, *China*
- 10.44-10.46** P 140  
The use of Chitosan gel as an embolic agent in experimental aneurysm models of rabbits: a focus on angiographic and histopathologic findings.  
**D.H. Hwang, K.J. Lee, S.T. Park, C.W. Hur, J. Hur, M.J. Lee, B.K. Kwack**, *South Korea*



- 10.46-10.48** P 141  
Spontaneous intracranial hypotension as a rare complication of aneurysmal subarachnoid hemorrhage.  
**A. Rustici, L. Cirillo, M. Dall'olio, C. Princiotta, M. Cellnerini, Italy**
- 10.48-10.50** P 142  
Global mirna expression profile reveals novel molecular players in aneurysmal subarachnoid haemorrhage.  
**E. Paschoal, F. M.Paschoal Jr, V. Apabastos, E. B-S-Shu, Â. R-Dos-Santos, Brazil**
- 11.00-11.15** **E-POSTERS AREA**  
**Poster Session 7: Vasospasm** **P 143 to P 147**
- Moderator: D. C. Suh, South Korea**
- 11.15-11.17** P 143  
Early detection of cerebral vasospasm or delayed cerebral ischemia after subarachnoid hemorrhage: a meta-analysis.  
**E. Paschoal, F. Mtuji, A. P.Lobo, F. M Paschoal Jr, R. Mrburbano, V. Apabastos, A. R-Dos Santos, J. Srogerio, A. O.Barbosa, E. B-S-Shu, Brasil**
- 11.17-11.19** P 144  
Early detection of vasospasm using ct perfusion after aneurysmal subarachnoid hemorrhage.  
**S.Y. Kim, K.C. Cho, J.M. Cho, South Korea**
- 11.19-11.21** P 145  
Quantitative CT perfusion associated with reduced risk of clinical vasospasm in aneurysmal subarachnoid hemorrhage.  
**D.W. Kim, South Korea**
- 11.21-11.23** P 146  
Intra-arterial injection of fasudil hydrochloride for cerebral vasospasm secondary to bacterial meningitis.  
**T. Ishikawa, K. Yamaguchi, T. Funatsu, S. Eguchi, Y. Omura, T. Nonaka, T. Kawamata, Japan**
- 11.23-11.25** P 147  
Arterial spin labeling magnetic resonance imaging to diagnose contrast-induced vasospasm after intracranial stent embolization.  
**G. Frauenfelder, R. Saponiero, G. Locatelli, A. Siani, S. Tartaglione, D.G. Romano, Italy**
- 11.15-11.45** **E-POSTERS AREA**  
**Poster Session 8: AVM** **P 148 to P 159**
- Moderator: G. Lanzino, USA**
- 11.15-11.17** P 148  
Silent MRA; arterial spin labeling magnetic resonant angiography with ultra-short time echo assessing cerebral arteriovenous malformation.  
**N. Arai, T. Akiyama, H. Fujiwara, M. Jinzaki, K. Yoshida, Japan**

- 11.17-11.19** P 149  
Cure of cerebral arteriovenous malformation after partial embolization is just a chance or a hemodynamic process.  
**A. Sultan, T.I. Metwally, T. Hassan**, *Egypt*
- 11.19-11.21** P 150  
Posterior fossa arteriovenous malformations: a review of natural history and patient outcome in Siriraj hospital.  
**A. Potigumjon, A. Churojana, T. Aurboonyawat, E. Chankaew, D. Songsaeng, B. Sangpetngam, P. Withyasak**, *Thailand*
- 11.21-11.23** P 151  
Preliminary experience with novel liquid embolising agent: precipitating hydrophobic injectable liquid (PHIL).  
**A. Kumar, V. Bhatia**, *India*
- 11.23-11.25** P 152  
The endovascular management of brain arteriovenous malformations by ethanol sclerotherapy.  
**Y. He, W. Bai, T. Li**, *China*
- 11.25-11.27** P 153  
Microcatheter rupture during AVM embolization and management in anterior choroidal artery: a case report.  
**T.Y. Kim, D.W. Park**, *South Korea*
- 11.27-11.29** P 154  
De novo AVM in asymptomatic adult patient.  
**L. Milonia, E. Lozupone, P. Trombatore, F. D'argento, A. Alexandre, I. Valente, C. Colosimo, A. Pedicelli**, *Italy*
- 11.29-11.31** P 155  
The value of intraoperative angiography for excision of brain arteriovenous malformation.  
**P. Lueangapapong, C. Kobkitsuksakul, S. Pongpech**, *Thailand*
- 11.31-11.33** P 156  
Patients eye lens dose during brain ArterioVenous Malformation (AVM) interventional neuroradiology (INR) procedure.  
**R. Wongsung, R. Thana, J. Tantivatana, A. Krisanachinda**, *Thailand*
- 11.33-11.35** P 157  
Relationship between Notch4 gene polymorphism and brain arteriovenous malformation development: a systematic review.  
**E. Paschoal, F. M Paschoal Jr, V. A.P.A. Bastos, R. M.R.Burbano, F. M.Tuji, E. B-S-Shu, Â. R-Dos-Santos**, *Brazil*
- 11.35-11.37** P 158  
Relationship of specific genetics polymorphisms as a risk factors for the brain arteriovenous malformations development: a systematic review.  
**E. Paschoal, L. M.Santos, V. A.P.A.Bastos, F. M.Paschoal Jr, V. F.R.Farias, C. R.O.Rocha, A. C.Pires, A. L.D.Costa, J. R.N.Brito, G. A.L.R. Andrade, F. L.A.Tobelem, R. M.R.Burbano, M. I.S. Rocha, E. B-S-Shu, E. G.Figueiredo, Â. R-Dos-Santos**, *Brazil*

**11.39-11.41** P 159  
MIRNAS profile in patients with brain arteriovenous malformation.  
**E. Paschoal, G. S.J-A-Liem, V. N.Yamaki, J. A.Doss.Lima, F. M.Paschoal Jr, J. R.N.Brito, J. S.Rogério, J. M.De Jesus, R. M.R.Burbano, F. M.Tuji, V. A.P.A.Bastos, L. M.Santos, V. F.R.Farias, C. R.O.Rocha, A. . C.Pires, E. G. Figueiredo, E. B.-S.-Shu, Â. R-Dos-Santos, Brazil**

**11.45-12.45** E-POSTERS AREA

Poster Session 9: AVF

P 160 to P 185

**Moderator: A. Consoli, Italy**

**11.45-11.47** P 160  
Diploic arteriovenous fistulas: report of 2 cases.  
**R. Anxionnat, S. Bracard, R. Tonnelet, A.L. Derelle, L. Liao, B. Gory, France**

**11.47-11.49** P 161  
Neuronavigation system might be useful for direct puncture of the targeted venous sinus in embolization of dural arteriovenous fistula.  
**Y. Nakagawa, Y. Mine, H. Kagami, M. Inaba, Japan**

**11.49-11.51** P 162  
Initial experience of steerable microcatheter for the selective tve of dural AVFs.  
**K. Tokuyama, H. Kiyosue, Y. Hori, H. Nagatomi, M. Okahara, Japan**

**11.51-11.53** P 163  
Angioarchitecture of cranial ventral type dural arteriovenous fistulas: embryological, anatomical, and clinical considerations,  
**N. Toma, Y. Suzuki, Y. Miura, M. Shiba, H. Suzuki, Japan**

**11.53-11.55** P 164  
Clinical significances of dural arteriovenous shunts with retrograde cortical venous ectasiae.  
**F. Yamane, S. Kohyama, M. Miyamoto, K. Uno, A. Itou, A. Matsuno, Japan**

**11.55-11.57** P 165  
A case of ethmoidal dAVF treated with transarterial embolization.  
**M. Yokota, T. Oshima, R. Kawaguchi, N. Matsuo, S. Miyachi, Japan**

**11.57-11.59** P 166  
Dural arteriovenous fistula with vein of Galen dilatation mimicking vein of Galen malformation in adult.  
**J.W. Choi, J.Y. Kim, South Korea**

**11.59-12.01** P 167  
Angioarchitecture and endovascular treatment results of tentorial dural arteriovenous fistulas: four different locations  
**H. Kiyosue, S. Ide, Y. Hori, K. Tokuyama, M. Okahara, Japan**

**12.01-12.03** P 168  
Diagnosis and treatment of dural arteriovenous fistulas with superior petrosal vein.  
**Y. Cheng, Y. Ma, H. Zhang, F. Ling, China**

**12.03-12.05** P 169  
Intracranial dural arteriovenous fistula mimicking pontine glioma.  
**Y.W. Kim, South Korea**

- 12.05-12.07** P 170  
Prognosis of the patients with dural arteriovenous fistulas in the sigmoid sinus.  
**T. Akiyama, T. Horiguchi, S. Takahashi, K. Yoshida, Japan**
- 12.07-12.09** P 171  
Superselective transvenous coil embolization for dural AVF at hypoglossal canal.  
**H. Ohta, K. Saitou, K. Yokogami, H. Takeshima, Japan**
- 12.09-12.11** P 172  
Arteriovenous fistulas at the craniocervical junction.  
**L.X. Xu, Y. Ma, H. Zhang, M. Li, G. Li, L. Sun, China**
- 12.11-12.13** P 173  
Transarterial N-BUTYL-2 cyanoacrylate embolization for dural arteriovenous fistula of the sinus of the lesser sphenoid wing.  
**R. Kikuchi, T. Akiyama, A. Nakamura, H. Miyazaki, Japan**
- 12.13-12.15** P 174  
Trigemino-cavernous fistula treated by balloon embolization.  
**V. Suraratdecha, M. Apirakkan, Thailand**
- 12.15-12.17** P 175  
Cortical dAVF mimicking a cavernous sinus fistula obscured by MRI.  
**R. Holmoe Dahl, V. Eskesen, G. Benndorf, USA**
- 12.17-12.19** P 176  
Endovascular therapy for carotid-cavernous sinus dural arteriovenous fistula without cortical venous reflux presenting with severe retro-orbital pain.  
**T. Funatsu, T. Ishikawa, S. Eguchi, K. Yamaguchi, T. Kawamata, Japan**
- 12.19-12.21** P 177  
Selective transvenous embolization combined with balloon angioplasty of occluded inferior petrosal sinus for the treatment of cavernous sinus dural arteriovenous fistulas.  
**S. Ide, H. Kiyosue, K. Tokuyama, Y. Hori, M. Okahara, R. Shimada, Y. Hisamitsu, T. Kubo, Japan**
- 12.21-12.23** P 178  
The so called “occult” inferior petrosal sinus.  
**R. Holmoe Dahl, G. Benndorf, USA**
- 12.23-12.25** P 179  
Cavernous sinus dural fistula in a patient with graves opthalmopathy: complete resolution after medical treatment.  
**N. Cavasin, E. Cagliari, M. Cazzagon, M. Bellamio, T. Scaravilli, Italy**
- 12.25-12.27** P 180  
Treatment of carotid-cavernous fistula presenting with contralateral exophthalmos; several experiences of graft stent.  
**S.Y. Chung, M.S. Park, S.H. Chang, China**
- 12.27-12.29** P 181  
Comparison of radiosurgery and endovascular treatment outcomes for cavernous sinus dural arteriovenous fistulas.  
**C.B. Luo, C. Lin, H. Yang, W. Guo, H. Wu, W. Chung, China**



- 12.29-12.31** P 182  
A case of traumatic carotid-cavernous fistula associated with persistent primitive trigeminal artery successfully treated by in-stent coil embolization.  
**R. Kawaguchi, T. Oshima, N. Matsuo, S. Miyachi**, *Japan*
- 12.31-12.33** P 183  
First experience of endovascular treatment of post-traumatic carotid-cavernous fistulas using flow-diverter stents.  
**A. Sufianov, S. Karasev, R. Khafizov, R. Rustamov, R. Sufianov**, *Russia*
- 12.33-12.35** P 184  
Spontaneous resolution traumatic carotid cavernous fistula associated with venous outlet stenosis: two casereports.  
**M. Apirakkan**, *Thailand*
- 12.35-12.37** P 185  
Angiographic change on time interval in traumatic-direct carotid cavernous fistula without venous reflux, and treatment with LVIS stent alone.  
**C.Y. Lee**, *South Korea*

Wednesday, 23<sup>rd</sup> October 2019

**08.00-09.30**     **AUDITORIUM EUROPA**  
**Plenary Session 5: Spinal AVMs & Dural AVFs**

**Chairperson:** F. Ling, *China*

**Moderators:** A. Casasco, *Spain* - G. Rodesh, *France*

- 08.00-08.30**     The debate on the technique of treatment of Spinal Dural AVFs:  
 Almost all must be treated by embolization  
**H. Henkes**, *Germany*  
 Almost all must be treated by surgery  
**E. Houdart**, *France*
- 08.30-08.45**     Particles embolization is often the best technique for medullary AVMs  
**E. Houdart**, *France*
- 08.45-09.00**     Advantage of NBCA in Embolization of Spinal Cord AVMs  
**S. Kominami**, *Japan*
- 09.00-09.15**     Paravertebral and Osteo-dural Shunts  
**D. C. Suh**, *South Korea*
- 09.15-09.30**     Discussion

**09.30-10.00**     **The Pierre Lasjaunias Memorial Lecture**  
 High-resolution intravascular imaging in neurointervention  
**M. Gounis**, *USA*

**10.00-10.30**     **Coffee Break**

**10.30-11.30**     **AUDITORIUM EUROPA**  
**Plenary Session 6: Intracranial and Internal Carotid Artery Stenosis**

**Chairperson:** H. Zhang, *China*

**Moderators:** T. Andersson, *Sweden* – L. Thines, *France*

- 10.30-10.45**     Management of Atherosclerotic and Dissecting Intracranial stenosis  
**L. Jiao**, *China*
- 10.45-11.00**     Results of endovascular techniques in the treatment of Internal Carotid Artery Disease  
**B. Moon Kim**, *South Korea*
- 11.00-11.15**     Surgical management of Moya-Moya and Moya-Moya like stenosis  
**M. Czabanka**, *Germany*
- 11.15-11.30**     Discussion



**11.30-13.00 AUDITORIUM EUROPA**  
**Plenary Session 7: From Bench to Bed - Research and Development**

**Chairperson:** A. Wakhloo, *USA*  
**Moderators:** G. Benndorf, *Denmark* - E. Ciceri, *Italy*

- 11.30-11.45** Braiding technology for aneurysm treatment devices  
**C. Iosif, Greece**
- 11.45-12.00** Myth or Reality in reduced thrombogenicity surface modification of new devices: do clinical results confirm laboratory data?  
**D. Lopes, USA**
- 12.00-12.15** Are simulation, animal and flow models useful in the treatment of ICAs?  
**V. Constalat, France**
- 12.15-12.30** Selective Brain Cooling in Acute Ischemic Stroke  
**W. Brinjikji, USA**
- 12.30-12.45** Neuro-Oncology: MR-guided intra-arterial treatments  
**S. Hetts, USA**
- 12.45-13.00** Discussion
- 13.00-14.00** Lunch

**13.00-14.00 EGADI ROOM Industry sponsored Symposium**

**14.00-15.30 AUDITORIUM EUROPA**  
**Oral papers - Parallel Session J: AVMs 1** **O 122 to O 132**

**Moderators:** J. Siddiqui, *USA* - M. Longo, *Italy*

- 14.00-14.06** O 122  
 3T PET-MRI analysis of unruptured brain AVMs: a single-center preliminary experience.  
**D. Simonato, M. Anglani, G. Cester, J.D. Gabrieli, M. Colasurdo, D. Cecchin, F. Causin, Italy**
- 14.08-14.14** O 123  
 Radiographic visualization performance of liquid embolic agents.  
**J.Mason, G. Benndorf, Denmark**
- 14.16-14.22** O 124  
 Multimodal cerebral arteriovenous malformation treatment: a 12-year cohort with comparison to the ARUBA trial.  
**B. Pulli, P.H. Chapman, C.S. Ogilvy, C.J. Stapleton, A.B. Patel, T.M. Leslie-Mazwi, J.A. Hirsch, J.D. Rabinov, USA**
- 14.24-14.30** O 125  
 Management strategies for complex brain arterio-venous malformations: early experience.  
**W. Aziz, United Arab Emirates**



- 14.32-14.38** O 126  
Morbidity and mortality associated with sequential flow reduction embolization technique of cerebral arteriovenous malformations with n-butyl cyanoacrylate (N-BCA).  
**J. A. Alara, M. Mohammaden, D. Brunozzi, G. Atwal, F. Charbel, USA**
- 14.40-14.46** O 127  
Pre-operative embolisation of ArterioVenous Malformations (AVMs) using the precipitating hydrophobic injectable liquid (PHIL) embolic agent in a same day dual procedure: a case series.  
**J. Siddiqui, P. Grover, M. Murphy, P. Rangi, USA, UK**
- 14.48-14.54** O 128  
Initial experience with micro vascular plug for the treatment of grade 4 and 5 cerebral ArterioVenous Malformations (AVMs).  
**A. Rustici, L. Cirillo, M. Dall'Olio, C. Princiotta, M. Cellerini, Italy**
- 14.56-15.02** O 129  
Transvenous embolization for brain arteriovenous malformations: curability vs safety?  
**Y.He, W. Bai, T. Li, China**
- 14.04-15.10** O 130  
Forced injection of PHIL liquid embolic agent by dual lumen balloons in treatment of complex arteriovenous malformations: single center, multi-year experience.  
**L. Larsson, Sweden**
- 15.12-15.18** O 131  
Cranial pial arteriovenous fistulae - a series of 41 cases.  
**L. J. D. Sebastian, N. Jain, P.K. Thimmegowda, A. Garg, S.B. Gaikwad, India, USA**
- 15.20-15.26** O 132  
Recurrence of brain arteriovenous malformations following apparent angiographic cure.  
**S.Hetts, A. Copelan, R. Khangura, G. Drocton, M. Amans, A. Abla, N. Gupta, H. Fullerton, C. Dowd, V. Halbach, R. Higashida, H. Kim, J. Nelson, D. Cooke, USA**

**14.00-15.30** EGADI ROOM  
Oral papers - Parallel Session K: Dural AVFs 1 O 133 to O 143

**Moderators:** H. Zhang, China - A. Rouchaud, France

- 14.00-14.06** O 133  
Application of four-dimensional magnetic resonance angiography without contrast enhancement for intracranial dural arteriovenous fistulas.  
**K.Tokairin, T. Osanai, N. Fujima, K. Houkin, Japan**
- 14.08-14.14** O 134  
Intracranial dural arteriovenous fistulae: an institutional experience and proposal of a new functional classification system.  
**L.J.D.Sebastian, A. Jain, P.K. Thimmegowda, A. Garg, S.B. Gaikwad, India**
- 14.16-14.22** O135  
Endovascular embolization of 103 cranial dural arteriovenous fistulas with Onyx: an observational study with analyses of occlusion rates, complication rates and the influence of angioarchitectural features on the treatment success.  
**D.Vollherbst, C. Herweh, S. Schönenberger, F. Seker, S. Nagel, P. Ringleb, M. Bendszus, M. Möhlenbruch, Germany**





- 14.24-14.30** O 136  
Trans arterial embolization of intracranial dural arteriovenous fistulas in the Onyx embolic era:  
a Kobe experience.  
**Y.Omura, H. Imamura, S. Tani, H. Adachi, R. Fukumitsu, T. Sunohara, N. Fukui, N. Sasaki, T.Akiyama, T. Fukuda, S. Kajiura, M. Shigeyasu, K. Asakura, R. Horii, N. Sakai, Japan**
- 14.32-14.38** O 137  
Preliminary experience of endovascular embolization of cerebral dural arteriovenous fistulas with Squid 12.  
**E. Lozupone, P. Trombatore, L. Milonia, F. D'argento, A. Alexandre, I. Valente, C. Colosimo, A.Pedicelli, Italy**
- 14.40-14.46** O 138  
Transarterial balloon-assisted liquid embolization of dural arteriovenous fistulas using a dual-lumen micro-balloon catheter.  
**D.Vollherbst, C. Herweh, S. Schönenberger, S. Nagel, M. Bendszus, M. Möhlenbruch, Germany**
- 14.48-14.54** O 139  
Transvenous coil-assisted liquid embolisation of intracranial dural arteriovenous fistulae.  
**N. Mahboobani, P.T. Yuen, J.K. Sham, V.W.T. Chan, K.W. Shek, K.F. Fok, W.L. Poon, Hong Kong**
- 14.56-15.02** O 140  
Endovascular treatment by transarterial approach of anterior ethmoidal dural arterio-venous fistulas (dAVF). The experiences of a single center.  
**F. Di Caterino, G. Vitale, F. Descourvieres, A. Biondi, France**
- 14.04-15.10** O 141  
Endovascular treatment of anterior cranial fossa fistulas: the significance of retrograde transvenous approach.  
**B. Pabon, C. Diaz, O. Vargas, J. Mejia, M. Patiño, N. Serna, Colombia**
- 15.12-15.18** O 142  
Posterior fossa dural arteriovenous fistulas: outcomes of endovascular treatment.  
**L. Detraz, K. Orlov, V. Berestov, V. Borodetsky, A. Rouchaud, L. Mattos, C. Mounayer, France, Russia**
- 15.20-15.26** O 143  
Angiographic anatomy and endovascular treatment of the lateral foramen magnum dural arteriovenous fistula  
**H. Kang, T. Boonchai, D. Yoo, Y. Cho, M. Han, South Korea**

**14.00-15.30**

**STROMBOLI ROOM**

**Oral papers - Parallel Session L: AVM, Dural AVFs 2 and Miscellaneous**

**O 144 to O 154**

**Moderators:** **M. Szainer, Poland - W. Brinjikji, USA**

**14.00-14.06**

O 144

Endovascular treatment of craniofacial high flow artero-venous malformation – blessing or curse?

**A. Ferrari, F. Schirru, F. Fusaro, S. Corraire, V. Palmisano, C. Ganau, S. Comelli, Italy**

- 14.08-14.14** O 145  
Adenosine-triphosphate induced cardioplegia in endovascular treatment of high-flow AVM fistulas.  
**A. Petrov, S. Goroshenko, A. Ivanov, L. Rozchenko**, *Russia*
- 14.16-14.22** O 146  
Statin intake is associated with a lower degree of venous stenosis in patients with nonhaemorrhagic cerebral arteriovenous malformations.  
**A. Alaraj, H. Mostafa, A. Hussein, M. Mohammaden, D. Brunozzi, G. Atwal, F. Charbel**, *USA*
- 14.24-14.30** O 147  
Bevacizumab effect on an angiogenesis animal model.  
**C. Papagiannaki, F. Clarencon, C. Yardin, C. Mounayer, C. Couquet**, *France*
- 14.32-14.38** O 148  
Cerebral Proliferative Angiopathy: 14 cases in a single-center and a systematic review.  
**E. Paschoal, G. S.J-A-Liem, V. N.Yamaki, F. M. Paschoal Jr, J. R.N.Brito, J. M.De Jesus, R. M.R.Burbano, F. M.Tuji, V. A.P.A.Bastos, E. G. Figueiredo, M. J.Teixeira, J. A. Dos S. Lima, A. De M. Lima Neto, Â.R. Dossantios, E. B.SS**, *Brazil*
- 14.40-14.46** O 149  
Efficacy of intraoperative cone beam computed tomography in evaluating and treating cavernous sinus dural arteriovenous fistula.  
**K. Kadooka, M. Tanaka**, *Japan*
- 14.48-14.54** O 150  
Different techniques of carotido-cavernous fistula embolization: single center experience.  
**F.Hassan**, *Egypt*
- 14.56-15.02** O 151  
Consideration of relationships between shunt segments and draining veins in the cavernous sinus dural arteriovenous fistulae.  
**S.Eguchi, T. Ishikawa, T. Funatsu, B. Ryu, K. Yamaguchi, T. Kawamata**, *Japan*
- 15.04-15.10** O 152  
Cavernous dural arteriovenous fistula presenting as headache without high intraocular pressure.  
**M. Miyamoto, Y. Oyama, T. Uno, A. Ito, F. Yamane, A. Matsuno**, *Japan*
- 15.12-15.18** O 153  
Utility of flow diverter stent in Slow Flow Carotid Cavernous Fistulas (SFCCFs).  
**F. Petra, A. Aguado, G. Caballero, J. Lizundia, M. Grana, L. Parra**, *Argentina*
- 15.20-15.26** O 154  
Flow diversion in direct carotid cavernous fistula – a way to get out of the corner?  
**F. Schirru, F. Fusaro, S. Corraine, A. Ferrari, V. Palmisano, C. Ganau, S. Comelli**, *Italy*

14.00-15.30		PANAREA ROOM	
		Oral papers - Parallel Session M: Aneurysms <i>Multimodality / Surgery</i>	O 155 to O 165
<b>Moderators:</b> I. Szikora, <i>Hungary</i> - P. Primikiris, <i>Greece</i>			
14.00-14.06	O 155	Endovascular treatment of middle cerebral artery aneurysms: a single center experience of 320 aneurysms. <b>L.J. Haas</b> , B.R. Sabel, J. Martins, G.V. Staedele, W.R. Berticelli, M. Becker, M.C. Harger, C.B. Lima, F.J. Cobra, M.D. Soares, L.C.O. Camilo, V.D. De Almeida, C.G.J.L. Brasileiro, J.D. Hessmann, J.M. Silva, V.H.T. Boer, D. De Lara, C.I.C. Bernardes, F.L. Cabral, A. De Oliveira Junior, B. Sartori, D. Malacarne, L.R.G.O.M. Mello, <i>Brazil</i>	
14.08-14.14	O 156	Endovascular treatment of complex superior cerebellar artery aneurysms using different techniques. <b>V. Kiselev</b> , R. Gafurov, A. Perfilev, A. Sosnov, <i>Russia</i>	
14.16-14.22	O 157	Multimodality endovascular treatment of partially thrombosed intracranial aneurysms: a single center retrospective study. <b>Y. Enomoto</b> , Y. Egashira, H. Matsubara, S. Yoshimura, T. Iwama, <i>Japan</i>	
14.24-14.30	O 158	Endovascular treatment of large and giant cranial aneurysms. <b>H. Kang</b> , J. Lee, Y. Cho, D. Yoo, M. Han, <i>South Korea</i>	
14.32-14.38	O 159	Assisted with balloon occlusion technique for large or giant unruptured paraclinoid aneurysm clipping in hybrid operation. <b>W. Xu</b> , S. Xiang, P. Hu, C. He, X. Li, J. Li, H. Zhang, <i>China</i>	
14.40-14.46	O 160	The analysis about the visualization of superior hypophyseal artery and post-procedural visual field deficit. <b>M. Otawa</b> , T. Izumi, M. Nishihori, T. Tsukada, R. Oshima, T. Kawaguchi, S. Goto, M. Ikezawa, A. Kropp, <i>Japan</i>	
14.48-14.54	O 161	Endovascular approach through direct carotid exposure for treatment of unruptured intracranial aneurysms. <b>F. Maruyama</b> , T. Ishibashi, I. Kan, N. Kato, T. Kodama, Y. Murayama, <i>Japan</i>	
14.56-15.02	O 162	Emergency EC-IC bypass treatment for intracranial complex aneurysm: a hybrid strategy. <b>W. Feng</b> , G. Wang, S. Qi, G. Zhang, M. Li, <i>China</i>	
15.04-15.10	O 163	Efficacy of transcranial motor-evoked potential monitoring in neuroendovascular surgery for anterior choroidal artery aneurysms. <b>A. Ito</b> , K. Sato, Y. Matsumoto, T. Tominaga, <i>Japan</i>	



**15.12-15.18** O 164  
Acute in-stent thrombosis and role of clopidogrel in dual antiplatelet therapy for flow-diverter stents: is still a gold standard drug or is it time to switch?  
**F. Fusaro, A. Ferrari, C. Ganau, S. Corraïne, F. Schirru, S. Comelli, Italy**

**15.20-15.26** O 165  
Utility of dual platelet testing in endovascular aneurysm treatment.  
**H. Batur, M.A. Topcuoglu, E.M. Arsava, A. Arat, Turkey**

**14.00-15.30** **SICILIA ROOM**  
**Oral papers - Parallel Session N: Aneurysms Coiling** **O 166 to O 176**

**Moderators: F. Briganti, Italy - A. Pedicelli, Italy**

**14.00-14.06** O 166  
Results of hybrid, prospective randomized multicenter study of hydrogel coil vs bare platinum coil for intracranial aneurysms in Japan.  
**N.Sakai, H. Imamura, C. Sakai, A. Hyodo, Y. Ito, S. Miyachi, Y. Matsumaru, S. Yoshimura, M. Sasaki, W. Taki, Japan**

**14.08-14.14** O 167  
Endovascular treatment of intracranial aneurysm with coils Pioneer®.  
**L.J.Haas, L.C.O. Camilo, V.D. De Almeida, G.V. Staedele, W.R. Berticelli, M. Becker, M.C. Harger, C.B. Lima, J. Martins, B.R. Sabel, F.J. Cobra, M.D. Soares, C.G.J.L. Brasileiro, J.D. Hessmann, L.M. Silva, A. De Oliveira Junior, D. Malacarne, B. Sartori, F.L. Cabral, D. De Lara, V.H.T. Boer, L.R.G.O. Mello, C.I.C. Bernardes, Brazil**

**14.16-14.22** O 168  
Early Experiences with a new, surface coated coil, the Trellix.  
**G.Gál, Denmark**

**14.24-14.30** O 169  
Durability of treatment for the penumbra smart coil system at one year in patients with ruptured aneurysms: subset analysis of the SMART registry.  
**A.M.Spiotta, D.J. Fiorella, B.N. Bohnstedt, C.M. Schirmer, R.J. Bellon, R.A. Deleacy, R.M. Starke, USA**

**14.32-14.38** O 170  
One-year follow-up on the utility of the penumbra smart coil system for treatment of intracranial aneurysms and malformations in 740 patients.  
**A.M.Spiotta, M.S. Park, C.M. Schirmer, B.N. Bohnstedt, R.J. Bellon, R.A. Deleacy, D.J. Fiorella, USA**

**14.40-14.46** O 171  
Behavior of coils when aneurysms recanalize after embolization.  
**M. Shojima, D. Nakagawa, T. Kin, H. Nakatomi, Japan**

**14.48-14.54** O 172  
Feasibility, intra and post procedural complications of coiling embolization of brain ruptured aneurysms under Conscious Sedation (CS) versus General Anesthesia (GA): a prospective single center experience.  
**F. Petra, A. Aguado, G. Caballero, M. Grana, J. Lizundia, L. Parra, Argentina**

**14.56-15.02** O 173  
Clinical experience of intra-procedural aneurysm rupture during endovascular treatment of cerebral aneurysm: two centers report.  
**S.T.Kim, H.W. Jeong, J.W. Baek, J.H. Seo, Y.G. Jeong, S.C. Jin, J.E. Roh, C.H. Kang, South Korea**

- 14.04-15.10** O 174  
Effectiveness of a novel microcatheter tip shaping utilizing vascular configuration for intracranial aneurysm coiling: original experience with in vivo “endovascular shaping”.  
**D. Yamazaki, J. Koyama, Y. Hanaoka, T. Horiuchi, Japan**
- 15.12-15.18** O 175  
Ultra-small catheter shaping method with a sheath dilator: usefulness for coil embolization of cerebral aneurysms.  
**H. Matsumoto, H. Nishiyama, N. Toki, D. Izawa, Japan**
- 15.20-15.26** O 176  
Computational simulation of micro-catheter delivery for an aneurysm in different types of the shaping.  
**S. Fujimura, H. Takao, Y. Uchiyama, H. Ohno, T. Ishii, T. Okudaira, T. Ishibashi, K. Otani, K. Fukudome, M. Yamamoto, Y. Murayama, Japan**

14.00-15.30

SARDEGNA ROOM

Oral papers - Parallel Session O: Aneurysms Stent Assisted Coiling

O 177 to O 187

**Moderators:** M. Killer, Austria – H. Riina, USA

- 14.00-14.06** O 177  
Pre-procedure simulation for stent-assisted coiling of challenging wide-neck aneurysms.  
**N. Hasegawa, S. Tatehata, G. Ogo, V. Zedler, A. P. de Oliveira, M. Minhas, J. Hinman, R. Jahan, G. G. Wunder, USA**
- 14.08-14.14** O 178  
Application of 3D-space combined with 3D-TOF sequence for follow-up evaluation of stent-assisted coil embolization for intracranial aneurysm.  
**S. Qiuji, L. Tianxiao, L. Li, L. Qiang, China**
- 14.16-14.22** O 179  
Long term outcome of in-stent stenosis after stent assisted coil embolization for cerebral aneurysm.  
**J.H.Ko, Y.J. Kim, South Korea**
- 14.24-14.30** O 180  
Leo Stent for endovascular treatment of broad-necked intracranial aneurysms: a series of 120 cases.  
**F. Villasante, F. Navarro, E. Loncharic Haag, H. Moya, M. Pereira, A. Ceciliano, Argentina**
- 14.32-14.38** O 181  
Treatment of broad-based intracranial aneurysms with low profile Leo baby stents: a single centre analysis of 119 patients.  
**T. Djurdjevic, V. Young, R. Corkill, M. Fuschi, D. Briley, W. Kuker, UK**
- 14.40-14.46** O 182  
Institutional experience with the LVIS Jr stent for treatment of intracranial aneurysms.  
**Y. Kayan, J. Delgado Almandoz, J. Scholz, A. Milner, M. Mulder, USA**
- 14.48-14.54** O 183  
Accero stent assisted coiling: early experience review.  
**A. Nania, N. Dobbs, J. Duplessis, P. Keston, J. Downer, UK**
- 14.56-15.02** O 184  
Safety and effectiveness of Y-configured low-profile stent-assisted coil embolization for basilar bifurcation aneurysms.  
**M. Sakamoto, H. Yoshioka, H. Takeuchi, T. Uno, Kurosaki, Japan**



- 15.04–15.10** O 185  
The pCONus Device in treatment of wide-necked aneurysms: technical, clinical and angiographic results.  
**R. Viso, I. Lylyk, C. Bleise, P. Lylyk, N. Perez, J. Chudyk, Argentina**
- 15.12–15.18** O 186  
pCONus-HPC: hydrophilic coating allows stent implantation under single antiplatelet therapy.  
**H. Henkes, V. Hellstern, M. Almatter, C. Serna Candel, E. Henkes, H. Baezner, O. Ganslandt, M. Aguilar-Perez, Germany**
- 15.20–15.26** O 187  
Y-stenting vs Pulserider assisted coiling in the treatment of wide-neck bifurcation aneurysms. The role of anatomical features on mid-term results.  
**N. Limbucci, S. Nappini, L. Renieri, A. Laiso, C. Cirelli, I. Valente, A. Rosi, S. Mangiafico, Italy**

**15.30-16.00** AUDITORIUM EUROPA  
**Special Session: The life of a Scientific Journal**

**Chairperson:** K. terBrugge, *Canada*  
**Moderators:** M. Komiyama, *Japan* - L. Pierot, *France*

- 15.30-15.40** Editor in Chief of a Scientific Journal: what does the future look like?  
**F. Albuquerque, USA**
- 15.40-15.50** How to improve the impact of a scientific journal  
**R. von Kummer, Germany**
- 15.50-16.00** Conclusion remarks  
**M. Söderman, Sweden**
- 16.00-16.30** Coffee Break

**16.30-17.30** AUDITORIUM EUROPA  
**Plenary Session 8: Aneurysms *a***

**Chairperson:** M. Tanaka, *Japan*  
**Moderators:** A. Bonafé, *France* - H. Riina, *USA*

- 16.30-16.45** Is there any advance in the treatment of Giant and Fusiform Aneurysms?  
**A. Siddiqui, USA**
- 16.45-17.00** By pass technique is often very useful in Giant and Fusiform Aneurysms  
**L. Thines, France**
- 17.00-17.15** By pass technique is rarely useful in Giant and Fusiform Aneurysms  
**S. Cekirge, Turkey**
- 17.15-17.30** Discussion

17.30-18.45		AUDITORIUM EUROPA
		Oral papers - Parallel Session P: Aneurysms Flow Diverter Stenting
		O 188 to O 196
<b>Moderators:</b> A. Churojana, <i>Thailand</i> – T. Liebig, <i>Germany</i>		
17.30–17.36	O 188	The pipeline embolization device: changes in practice and reduction of complications in the treatment of anterior circulation aneurysms in a multicenter cohort. <b>A. Dmytriw</b> , K. Phan, M. Salem, N. Adeeb, J. Moore, C. Griessenauer, P. Foreman, H. Shallwani, H. Shakir, A. Siddiqui, E. Levy, J. Davies, M. Harrigan, A. Thomas, C. Ogilvy, <i>Canada, USA</i>
17.38–17.44	O 189	Retrograde pull-up method for pipeline implantation for extremely difficult IC cavernous aneurysm. <b>Y.Ito</b> , H. Hasegawa, B. Kikuchi, K. Kitazawa, M. Koyama, H. Ohara, Y. Fujii, M. Minagawa, <i>Japan</i>
17.46–17.52	O 190	SCOPE-AUS: the safety and clinical effectiveness of pipeline™ flex embolization devices with shield technology™ in patients with intracranial aneurysms: a multicentre retrospective study of an Australian cohort. <b>M.A. Owusu</b> , <b>H.A. Rice</b> , L.E. De Villiers, J. Wenderoth, A. Chiu, N. Manning, A. Cheung, W. McAuliffe, T. Phillips, A. Rossiter, L. Ninnes, S. Gatty, I. Hughes, C. Rapier, T. Green, <i>Australia</i>
17.54–18.00	O 191	Preliminary results with Surpass Evolve flow diverter. <b>S. Derakhshani</b> , A. Arat, <i>Turkey</i>
18.02–18.08	O 192	Preliminary experience with the new Surpass Evolve flow diverter: technical considerations and case study. <b>E. Orru</b> , A. K. Wakhloo, J M Klostranec, A. L. Coon, I Radovanovic, I Yang, N. M. Cancelliere, K. D. Bhatia, H. Kortman, T. Krings, V. M. Pereira, <i>Canada, USA, China</i>
18.10 – 18.16	O 193	Midterm treatment results using the FRED flow diverter. <b>C. Ulfert</b> , M. Moehlenbruch, M. Bendszus, <i>Germany</i>
18.18–18.24	O 194	The FRED Jr flow diverter – first in man, long term follow-up from a single centre experience. <b>J. Chudyk</b> , I. Lylyk, N. Perez, C. Bleise, R. Viso, P. Lylyk, <i>Argentina</i>
18.26–18.32	O 195	Seven years follow-up of intra-cranial aneurysms treated with different types of flow diverter stents. <b>G. Vitale</b> , M.A. Moubark, F. Di Caterino, M. Findler, A. Abdallah, F. Turjman, A. Biondi, <i>France, Egypt</i>
18.34–18.40	O 196	Long term follow-up result of flow diversion in unruptured large and giant intracranial aneurysm. <b>D. Y. Cho</b> , <i>South Korea</i>

17.30-18.45	EGADI ROOM	
	Oral papers - Parallel Session Q: Aneurysms Flow Diverter Stenting	O 197 to O 205

**Moderators:** M. Aguilar-Perez, *Germany* – L. Lemme-Plaghos, *Argentina*

- 17.30–17.36** O 197  
Flow diversion of anterior circulation aneurysms using p64: occlusion rate, procedural morbidity and mortality.  
**H. Henkes, V. Victoria, M. Almatter, C. Serna, E. Henkes, O. Ganslandt, H. Bätzner, M. Aguilar-Perez, Germany**
- 17.38–17.44** O 198  
The diversion p64 study: a prospective, multicentre registry in the treatment of intracranial aneurysms with p64 flow modulation device in more than 400 patients.  
**A. Bonafé, A. Biondi, France**
- 17.46–17.52** O 199  
The P64 flow diverter. Mid and long-term results from a single center.  
**S. Sirakov, A. Sirakov, Bulgaria**
- 17.54–18.00** O 200  
Preliminary clinical experience with flow diverters p48 and p48-HPC.  
**L. Pierot, P.F. Manceau, S. Soize, France**
- 18.02–18.08** O 201  
The Italian multicentric experience with new low-profile flow diverter Silk Vista Baby: preliminary results.  
**L. Cirillo, A. Rustici, S. Bracco, L. Chiumarulo, C. Cristaudo, F. Di Paola, V. Gavrilovic, G. Iannucci, G. Lazzarotti, D. Mardighian, R. Menozzi, M. Natrella, R. Padolecchia, A. Paolucci, R. Papa, S. Peschillo, B. Petralia, D. Romano, P. Zampieri, Italy**
- 18.10–18.16** O 202  
Breaking new ground – flow diversion beyond the circle of Willis: endovascular aneurysm treatment in peripheral cerebral arteries employing a novel low-profile flow diverting stent.  
**S. Schob, K. Hoffmann, U. Quaeschling, Germany**
- 18.18–18.24** O 203  
The use of flow diversion stent in vessels less than 2.5mm in diameter - a single centre experience.  
**J. Chudyk, C. Bleise, I. Lylyk, N. Perez, R. Viso, P. Lylyk, Argentina**
- 18.26–18.32** O 204  
LVIS blue as a stand alone flow diverter and coil adjuvant: an institutional experience.  
**M. Koch, S. Raymond, C. Stapleton, A. Patel, USA**
- 18.34–18.40** O 205  
Flow diversion for the treatment of basilar apex aneurysms.  
**A. Dmytriw, N. Adeeb, A. Kumar, C. Griessenauer, K. Phan, C. Ogilvy, P. Foreman, H. Shallwani, N. Limbucci, S. Mangiafico, C. Michelozzi, T. Krings, V. Pereira, C. Matouk, Y. Zhang, M. Harrigan, H. Shakir, A. Siddiqui, E. Levy, L. Renieri, C. Cognard, A. Thomas, T. Marotta, USA, Italy, France**



17.30-18.45		STROMBOLI ROOM
		Oral papers - Parallel Session R: Aneurysms Flow Diverter Stenting
		O 206 to O 214
<b>Moderators:</b> P.K. Nelson, USA – N. Sourour, France		
17.30–17.36	O 206	Advanced intracranial aneurysms treatment – the Derivo embolization device. <b>M. S. Medenica, D. Nestorovic, F. Vitosevic, I. Vukasinovic, Serbia</b>
17.36–17.42	O 207	A prospective multicentre registry of patients treated for unruptured intracranial aneurysms with the Derivo flow diverter: procedural safety and core-lab adjudicated angiographic baseline results. <b>C. Taschner, C.P. Stracke, F. Dorn, K. Kadziolka, K. Kreiser, M. Pham, J.H. Buhk, B. Turowski, W. Reith, H. Janssen, O. Beuing, O. Jansen, M. Knauth, R. Chapot, Germany, Poland</b>
17.42–17.48	O 208	First experience with Derivo Embolization Device (DED) in Argentina: long term follow-up. <b>A. Ceciliano, F. Navarro, M. Pereira, H. Moya, E. Loncharic, F. Villasante, Argentina</b>
17.48–17.54	O 209	A retrospective experience of 243 patients treated with 1 year follow up. <b>S. Derakhshani, A. Arat, UK, Turkey</b>
17.54–18.00	O 210	Carotid aneurysms presenting with cranial nerve symptoms; the comparison of treatment outcomes between coiling and flow diverter. <b>S. Koizumi, J. Desilles, R. Fahed, S. Escalard, S. Smajda, G. Ciccio, H. Redjem, M. Mazighi, R. Blanc, M. Piotin, France</b>
18.00–18.06	O 211	Assessment of carotid sinus reflex during flow-diverter stent deployment. <b>S. Goto, T. Izumi, M. Nishihori, T. Tsukada, M. Otawa, R. Oshima, T. Kawaguchi, T. Wakabayashi, Japan</b>
18.06–18.12	O 212	Flow diverter devices in the treatment of recanalized intracranial aneurysms. <b>E. Akgul, H.B. Onan, H.T. Balli, I. Islek, G. Ertan, S.S. Bilgin, Turkey</b>
18.12–18.18	O 213	Persistent residual aneurysm after flow diversion. What must we do? Two cases of trans circulation coiling and 2 cases of telescopic flow diverter. <b>L. Nico, J. Ognard, J. Gentric, France</b>
18.18-18.24	O 214	An evaluation of health-related quality of life in patients with unruptured intracranial aneurysms

**17.30-18.45 PANAREA ROOM**  
**Oral papers - Parallel Session S: Aneurysms Flow Study / Vessel Wall Imaging O 215 to O 223**

**Moderators:** G. Benndorf, *Denmark* - J. Schaafsma, *USA*

- 17.30–17.36** O 215  
Investigation on the relations of hemodynamics and growth of unruptured cerebral aneurysms.  
T. Okudaira, H. Takao, S. Fujimura, Y. Uchiyama, H. Ohno, T. Ishii, T. Ishibashi, K. Otani, K. Fukudome, M. Yamamoto, Y. Murayama, *Japan*
- 17.38–17.44** O 216  
Hemodynamic investigation on recanalized and stable aneurysms using virtual coiling technique.  
T. Ishii, H. Takao, S. Fujimura, Y. Uchiyama, H. Ohno, T. Okudaira, T. Ishibashi, K. Otani, K. Fukudome, M. Yamamoto, Y. Murayama, *Japan*
- 17.46–17.52** O 217  
Role of computational fluid dynamics for endovascular aneurysm intervention.  
Y. Murayama, S. Fujimura, T. Ishibashi, H. Takao, *Japan*
- 17.54–18.00** O 218  
Analysis of the relationship between the hydrodynamic resistance, MSA and pore density of flow diverter stents.  
B. Csippa, D. Gyurki, G. Zavodszky, G. Paal, I. Szikora, *Hungary*
- 18.02–18.08** O 219  
Investigation of the effect of flow diverter's pore density on stagnation fluid flow zones inside a giant aneurysm using a Lagrangian coherent structure technique.  
O. Mutlu, A. B. Olcay, C. Bilgin, B. Hakyemez, *Turkey*
- 18.10–18.16** O 220  
Validation of a technique for extraction of patient-specific blood flow conditions from 4D digital subtraction angiography.  
H. Ohno, H. Takao, T. Suzuki, S. Fujimura, Y. Uchiyama, K. Katayama, T. Ishii, T. Okudaira, T. Ishibashi, K. Otani, K. Fukudome, M. Motosuke, M. Yamamoto, Y. Murayama, *Japan*
- 18.18–18.24** O 221  
Association of low flow conditions and histologic signs of inflammation in intracranial aneurysms with focal enhancement on MR vessel wall imaging.  
P. Berg, S. Saalfeld, C. Flüh, N. Larsen, *Germany*
- 18.26–18.32** O 222  
Vessel wall imaging to improve risk prediction of growing and stable intracranial aneurysms.  
E. Leemans - Van Katwijk, B. Cornelissen, B. Coolen, H. Boogaarts, W.J. Van Rooij, R. Van Den Berg, Y. Roos, W. Vandertop, C. Slump, E. Van Bavel, A. Nederveen, H. Marquering, C. Majoie, *The Netherlands*
- 18.34–18.40** O 223  
Vessel wall enhancement of intracranial aneurysms on high resolution MRI: a rupture sign? The ICARUS study.  
L. Dinia, L. Gramegna, C. Vert, M. Luzzi, F. Arikian, D. Hernandez, P. Coscojuela, E. Martinez Saez, A. Rovira, A. Tomasello, *Spain, Italy*

**17.30-18.45 SICILIA ROOM**  
**Oral papers - Parallel Session T: Aneurysms Intra-aneurysmal flow disruption O 224 to O 232**

**Moderators:** **D. Lopes, USA – M. Szainer, Poland**

- 17.30–17.36** O 224  
 WEB colombian multicenter experience (web.com): clinical and radiological mid-term results in the treatment of intracranial aneurysms.  
**B. Pabon, C. Diaz, J. Mejia, M. Patiño, R. Almeida, F. Orozco, J. Fernandez, N. Lobelo, D. Mantilla, Colombia**
- 17.38–17.44** O 225  
 Short term results in the treatment of unruptured sidewall intracranial aneurysms with the use of intrasaccular aneurysm flow disruption devices.  
**F. Di Caterino, G. Vitale, A. Biondi, France**
- 17.46–17.52** O 226  
 Mechanical properties of flow disruptors: impact of oversizing by in vitro compression testing.  
**B. Pogácsás, E. Bognár, L. Pelyhe, P. Nagy, I. Kientzl, Z. Kiss, M. Czencz, M. Kondor, Á. Vadász, I. Szikora, Hungary**
- 17.54–18.00** O 227  
 Web compaction during follow-up: the Bicêtre experience.  
**J. Caroff, C. Mihalea, I. Pagiola, M. Iacobucci, V. Chalumuea, L. Ikka, S. Gallas, A. Ozanne, J. Moret, L. Spelle, France**
- 18.02–18.08** O 228  
 Aneurysm treatment with WEB in the cumulative population of 3 prospective, multicenter series: 2-year and 3-year anatomical results.  
**L. Pierot, J. Byrne, L. Spelle, France**
- 18.10–18.16** O 229  
 Clipping of recanalized intracerebral aneurysms initially treated by WEB device.  
**L. Litre, France**
- 18.18–18.24** O 230  
 Preliminary experiences with a new, electrically detachable, intrasaccular flow diverter, the Contour.  
**G. Gál, Denmark**
- 18.26–18.32** O 231  
 Mid-term experiences with a new, intrasaccular neck-bridging device, the Neqstent.  
**G. Gál, Denmark**
- 18.34–18.40** O 232  
 Experience with an endosaccular flow diverter device: Nexsys.  
**I. Lylyk, C. Bleise, J. Chudyk, N. Perez, R. Viso, P. Lylyk, Argentina**

17.30-18.45		SARDEGNA ROOM
		Oral papers - Parallel Session U: Aneurysms Stent assisted coiling
		O 233 to O 241
<b>Moderators:</b> M. Bergui, <i>Italy</i> - S. Gallas, <i>France</i>		
17.30-17.36	O 233	Safety and performance of the Neuroform Atlas stent system (Atlas) in the treatment of intracranial aneurysms: a prospective, observational, multicentre, post-market european study (Atlas EU PMCF study). <b>E. Houdart, A. Bonafé, V. Costalat, P. Schramm, T. Eckey, X. Barreau, M. Piotin, A. Berlis, W. Weber, S. Fischer, K. Zelenak, A. Narata, M. Hartmann, J. Gentric,</b> <i>France, Germany, Slovak Republic</i>
17.38-17.44	O 234	Stent assisted coil embolization of intracranial aneurysms using Neuroform Atlas stent. <b>H.W. Jeong, J.W. Baek, S.T. Kim, Y.G. Jeong, J.H. Seo, S.K. Baik, W.B. Seung,</b> <i>South Korea</i>
17.46-17.52	O 235	Neuroform Atlas stent (NAS) in intracranial aneurysms: initial experience. <b>F. Villasante, F. Navarro, E. Loncharic, H. Moya, M. Pereira, A. Ceciliano,</b> <i>Argentina</i>
17.54-18.00	O 236	Neuroform Atlas stent in the treatment of wide-necked intracranial aneurysms. A single center experience. <b>A. Alexandre, F. Giubbolini, I. Valente, E. Lozupone, F. D'Argento, C. Colosimo, A. Pedicelli,</b> <i>Italy</i>
18.02-18.08	O 237	The 'Y'-configuration of double Neuroform Atlas assisted coil embolization for treatment of bifurcation wide-neck aneurysms. A multicentric experience. <b>V. Semeraro, S. Vidali, E. Lozupone, M. Ganimede, N. Lucarelli, N. Burdi,</b> <i>Italy</i>
18.10-18.16	O 238	A simple and reliable way to use Neuroform Atlas stents with Scepter balloon catheters: a technical report of the 'balloon-stent' technique. <b>J. Roh, S.K. Baik, C.H. Kang, H.W. Jeong,</b> <i>South Korea</i>
18.18-18.24	O 239	Waffle cone technique using the Atlas intracranial device in ruptured aneurysms. <b>F. Petra, A. Aguado, G. Caballero, J. Lizundia, M. Grana, L. Parra, E. Isuany,</b> <i>Argentina</i>
18.26-18.32	O 240	Neuroform Atlas stent-assisted coiling of ruptured aneurysms in not-premedicated patients. A multicenter study <b>R. Russo, G. Bradac, L. Castellan, I. Gallesio, D. Garbossa, G. Iannucci, D. Mardighian, R. Menozzi, A. Pitrone, G. Romano, F. Venturi, G. Vercelli, M. Bergui,</b> <i>Italy</i>
18.34-18.40	O 241	Stent-assisted coiling of cerebral aneurysms with the Neuroform Atlas stent with one year follow up. <b>S. Derakhshani,</b> <i>UK</i>

## Wednesday, 23<sup>rd</sup> October 2019 - ETMINT Symposium

**08.00-10.00** SICILIA ROOM  
**Symposium for Angiosuite Personnel: Nurses, Radiographers and Technicians in cooperation with ESMINT**  
**Session C: Aneurysms and AVMs**

**Moderators:** C. Wetzel, *Germany* - F. Menu, *France*

**08.00-08.10** Opening  
**F. Menu, NRT, France**

**08.10-08.30** WEB, flow diverters or coils? Different treatment strategies and different morphologies  
**T. Nawka, MD, Germany**

**08.30-08.50** WEB device: what NRTs should know  
**F. Menu, NRT, France**

**08.50-09.10** Indications of stenting and flow diversion in treatment of cerebral aneurysm  
**L. Pierot, MD, France**

**09.10-09.30** Management and nursing for carotid artery stenting related hemodynamic depression  
**Z. Wang, NRT, China**

**09.30-10.00** Interactive case  
**J. Bukh, MD, Germany**

**10.00-10.30** **Coffee Break**

**10.30-13.00** SICILIA ROOM  
**Symposium for Angiosuite Personnel: Nurses, Radiographers and Technicians in cooperation with ESMINT**  
**Session D: Aneurysms and AVMs**

**Moderators:** H. Genins, *Sweden* - A. Mastenbroek, *The Netherlands*

**10.30-10.50** The diversity of embolic agents for treatments of AVMs  
**J. Ducasse, NRT, France**

**10.50-11.10** 4D interest analysis and treatment of brain AVM  
**S. Traore, NRT, France - A. Rouchaud, MD, France**

**11.10-11.30** Interactive AVM case  
**P. Brouwer, MD, Sweden**

**11.30-11.50** Nursing coordination for hybrid recanalization of 44 symptomatic vertebral arteries occlusion patients  
**H. Tang, NRT, China**

**11.50-12.10** Mechanical Thrombectomy – how many retrieval attempts are enough?  
**F. Flottmann, MD, Germany**

**12.10-12.25** Management of patients receiving a cumulative radiation dose more than 3000mGy

**P. Pöder, NRT, Sweden**

**12.25-12.40** Different dose rates in neurovascular treatments and how to prevent high doses in the angiosuite

**J. Åkerblom, NRT, Sweden**

**12.40-13.00** Radiation dose, Comparison of mechanical thrombectomy in single vs biplane angiosuites, an international study

**M. Maury, NRT, France - A.C. Januel, MD, France**

**13.00-14.00** Lunch

**16.30-17.00** E-POSTERS AREA  
Poster Session ETMINT in cooperation with ESMINT

**Moderator: A. van Es, The Netherlands**

**16.30-16.32** PE:1  
Analysis of feasibility and safety of endovascular recanalization of chronic occlusion of large intracranial artery.

**S. Li, L. Jiao, China**

**16.32-16.34** PE:2  
Management and nursing for carotid artery stenting related hemodynamic depression.

**Z. Wang, J. Hou, L. Jiao, China**

**16.34-16.36** PE:3  
Nursing coordination for hybrid recanalization of occluded carotid artery.

**H. Zhang, Z. Wang, H. Tang, W. Li, M. Sun, L. Jiao, China**

**16.36-16.38** PE:4  
Nursing coordination for hybrid recanalization of 44 symptomatic vertebral artery occlusion patients.

**H. Tang, L. Jiao, Q. Xiao, F. Feng, G. Li, Z. Wang, China**

**16.38-16.40** PE:5  
Recanalization of long segmental occlusion at extracranial vertebral artery by hybrid technique: case report.

**Q. Song, Y. Ma, L. Jiao, China**

**16.40-16.42** PE:6  
Nursing cooperation in the hybrid surgery of complex spinal vascular malformation: experiences from 111 cases.

**T. Wu, Q. Qin, Y. Tang, X. Chen, X. Niu, Z. Wang, B. Han, China**

**16.42-16.44** PE:7  
Dural arteriovenous fistulas involving the superior petrosal veins: case series.

**T. Jie, M. Yongjie, Z. Hongqi, L. Feng, L. Guilin, China**

**16.44-16.46** PE:8  
Hybrid operation for stylocarotid artery syndrome: a case report and literature review.

**F. Zhu, L. Jiao, China**

Wednesday, 23<sup>rd</sup> October 2019 – E-Posters

10.30-11.00 E-POSTERS AREA	
Poster Session 10: Pediatric	
P 186 to P 196	
<b>Moderator:</b> G. Guarnieri, <i>Italy</i>	
10.30-10.32	P 186 Endovascular treatment of complex pediatric intracranial unruptured aneurysms. <b>L. Jiang, G. Zeng, X. Zhi, J. Li, H. Zhang, China</b>
10.32-10.34	P 187 Successful treatment of ruptured basilar mycotic aneurysm in an infant with endovascular parent artery occlusion. <b>K. Somboonnithiphol, E. Chantanaphak, S. Pongpech, Thailand</b>
10.34-10.36	P 188 Endovascular treatment of dural sinus malformation with AV shunt in infants: a case report. <b>M. Mitsuhiro, Y. Nishikawa, N. Aihara, Japan</b>
10.36-10.38	P 189 A case of pediatric dural arteriovenous fistula treated with transvenous embolization using NBCA. <b>M. Okawa, Japan</b>
10.38-10.40	P 190 Vein of Galen malformations in neonates: multidisciplinary approach and neuroendovascular treatment. <b>T. Shigematsu, A. Berenstein, J. Fifi, R. De Leacy, USA</b>
10.42-10.44	P 191 Orbital Arterio-Venous Shunt (AVS) co-existing with Veno-Lymphatic Malformations (VLM) of the right orbit in a 11-year-old boy: a case report of our therapeutic experience from Ramathibodi hospital. <b>P. Jiarakongmun, E. Chantanaphak, M. Apirakkarn, K. Somboonnithiphol, Thailand</b>
10.46-10.48	P 192 Endovascular management of pial fistula in infancy. <b>M. Mahmoud, R. Nader, M. Farid, Egypt</b>
10.50-10.52	P 193 Preoperative superselective endovascular embolisation helps in complete endoscopic excision of juvenile nasopharyngeal angiofibroma. <b>S. Kumar, K. Bhavana, India</b>
10.54-10.56	P 194 Superselective Intra-Arterial Chemotherapy (SIAC) for retinoblastoma a safety technique: 9 years experience. <b>F. Villasante, F. Navarro, E. Loncharic, M. Varela, P. Schaiquevich, G. Chantada, A. Fandiño A. Ceciliano, Argentina</b>
10.58-11.00	P 195 Combination of stent + PTA + bypass surgery in an evolutive MCA finally stenosis leading. <b>M. Bergui, B. Siri, P. Saracco, A. Lanterna, Italy</b>

**10.50-10.52** P 196  
Screening of findings of computed tomography for minor blunt head trauma among paediatrics in Alexandria University emergency department: a center experience.  
**K. Saad', E. Gaber, T. Ibrahim, A. El Kafafy, W. Foad, Egypt**

**11.00-11.20** E-POSTERS AREA  
Poster Session 11: Spine P 197 to P 203

**Moderator:** S. K. Lee, USA

**11.00-11.02** P 197  
Spontaneous regression of the herniated lumbar disc: clinical and imaging predictors.  
**A. Sultan, A. Elwany, D. Mokhtar, A. Alnagar, Egypt**

**11.02-11.04** P 198  
Presurgical trans-arterial embolization of hypervascularized spinal tumors: a review of the technique and results in 972 patients.  
**F. Tagliatela, S. Isceri, C. Barbara, S. Bandiera, A. Gasbarrini, L. Simonetti, Italy**

**11.04-11.06** P 199  
Hemangioblastoma of filum terminale mimicking with a spinal arteriovenous shunt.  
**N. Uranslip, M. Apirakkan, Thailand**

**11.06-11.08** P 200  
4D DSA for spinal cord vascular malformations exploration: preliminary experience.  
**F. Clarençon, S. Lenck, E. Shotar, A. Boch, K. Premat, J. Chiras, N. Sourour, France**

**11.08-11.10** P 201  
Spinal epidural arteriovenous fistula co-existing with spine tumor, the challenging diagnosis.  
**U. Wongkhum, C. Kobkitsuksakul, Thailand**

**11.10-11.12** P 202  
Spinal epidural arterio-venous malformations - an institutional experience.  
**L.J.D. Sebastian, J. Nadarajah, M. Gupta, A. Garg, S.B. Gaikwad, N.K. Mishra, India**

**11.12-11.14** P 203  
An adult case of nonvertebral paraspinal arteriovenous fistulas along the segmental nerve with perimedullary reflux: a case report and a description of novel technique in treatment of high-flow large fistulas.  
**T. Asano, K. Ozaki, S. Kubota, K. Kado, S. Mitsuhashi, I. Yamakami, Y. Kageyama, Japan**

**12.00-12.32i** E-POSTERS AREA  
Poster Session 12: Miscellaneous P 204 to P 219

**Moderator:** J.S. Shin, South Korea

**12.00-12.02** P 204  
Day-hospital as a feasible setting for cerebral digital subtraction angiography.  
**I. Valente, F. D'argento, A. Alexandre, E. Lozupone, G. Garignano, A. Romi, A. Bartolo, A. Pedicelli, Italy**



- 12.02-12.04** P 205  
The angiographic quality in term of radiologist satisfaction using the different percentage of the contrast media concentration.  
**P. Poonkarun, P. Thomya, P. Poonkarun, N. Rodiead**, *Thailand*
- 12.04-12.06** P 206  
Investigation of puncture site hematoma after neuroendovascular surgery.  
**R. Oshima, T. Izumi, M. Ikezawa, S. Gotoh, A. Kropp, M. Otawa, T. Kawaguchi, T. Tsukada, M. Nishihori, T. Wakabayashi**, *Japan*
- 12.06-12.08** P 207  
Extracranial and intracranial anastomosis and its clinical implications in therapeutic neurointerventions.  
**V. Bhatia, A. Kumar**, *India*
- 12.08-12.10** P 208  
Isolated trochlear nerve palsy in a patient with superior cerebellar rete mirabile.  
**E.J. Kim, Y. Shin, C.W. Ryu, K.M. Lee, E.K. Yeon, J.S. Lee**, *South Korea*
- 12.10-12.12** P 209  
A rare case of post-infectious moyamoya syndrome: case report and review of the literature.  
**P. Trombatore, E. Lozupone, S. Gaudino, L. Milonia, A. Alexandre, F. D'argento, I. Valente, C. Colosimo, A. Pedicelli**, *Italy*
- 12.12-12.14** P 210  
Diagnosis and treatment of brain stem venous hypertensive congestion.  
**L. Yan, Y.J. Ma, G.L. Li, T. Hong, L.Y. Sun, H.Q. Zhang**, *China*
- 12.14-12.16** P 211  
Neurovascular manifestations of NFI- a pictorial essay based on our cases.  
**L.J.D. Sebastian, J. Nadarajah, M. Gupta, A. Garg, S.B. Gaikwad**, *India*
- 12.16-12.18** P 212  
Cerebro vascular manifestations of neurofibromatosis type 1 - a pictorial review.  
**N. Jain, M. Gupta, J. Nadarajah, L. Deverajan, S. Gaikwad**, *India*
- 12.18-12.20** P 213  
Extracranial vertebral arteriovenous fistula in a patient with neurofibromatosis type 1.  
**T. Nakazawa, A. Tsuji, Y. Yoshimura, K. Tsuji, K. Nozaki**, *Japan*
- 12.20-12.22** P 214  
Infiltrated embolization of meningioma with dilute cyanoacrylate glue.  
**O. Hiroyuki, T. Kenkichi, M. Kenichi, K. Yuji, K. Yoshihiro, O. Hideyuki**, *Japan*
- 12.22-12.24** P 215  
Preoperative embolization via non internal carotid artery for intracranial meningioma or solitary fibrous tumor is a safe and useful method.  
**J. Suenaga, N. Shimizu, T. Ogura, S. Matsumoto, K. Fujii, A. Ohshima, T. Nakamura, N. Ikegaya, M. Sato, K. Tateishi, H. Murata, T. Yamamoto**, *Japan*
- 12.24-12.26** P 216  
Combined management of hypervascular brain tumors in hybrid operating room.  
**R. Mori, I. Kan, T. Kodama, T. Ishibashi, Y. Akasaki, Y. Murayama**, *Japan*



- 12.26-12.28** P 217  
Parent artery occlusion for traumatic vertebral artery injury.  
Y. Matsunaga, Y. Morofuji, N. Horie, T. Izumo, T. Anda, T. Matsuo, *Japan*
- 12.28.12.30** P 218  
The algorithm and the results of the treatment for chronic subdural hematoma in our hospital, and identity of the feeder embolization by the intervention.  
Y. Makoto, *Japan*
- 12.30-12.32** P 219  
Regulatory science aspect of post-market surveillance of neuro-endovascular devices in Japan.  
C. Sakai, N. Sakai, H. Imamura, A. Ishii, Y. Matsumaru, S. Yoshimura, *Japan*

Thursday, 24<sup>th</sup> October 2019

08.00-09.00	AUDITORIUM EUROPA	
	Oral papers - Parallel Session V: Aneurysms <i>Fusiform / Dissecting</i>	O 242 to O 248

**Moderators:** F. Hui, *Singapore* - R. Anxionnat, *France*

08.00-08.06	O 242 Application of low-profile flow-diverting stents in the treatment of fusiform, distal aneurysms or for destructive operations. <b>A. Petrov, S. Goroshenko, L. Rozchenko, Russia</b>
08.08-08.14	O 243 Endovascular therapy for ruptured vertebral artery dissecting aneurysms in Japan: results from nationwide, retrospective, multi-center registries. <b>H.H. Nakamura, Fujinaka, T. Nishida, H. Kishima, N. Sakai, Japan</b>
08.16-08.22	O 244 Reconstructive endovascular treatment of v4 segment of vertebral artery dissecting aneurysm with Willis covered stent: a retrospective study. <b>S. Xiang, G. Li, C. He, J. Ren, H. Zhang, China</b>
08.24-08.26	O 245 Segment occlusion vs. reconstruction experience with endovascular strategies for ruptured vertebrobasilar dissecting aneurysms. <b>S.S. Schob, K.T. Hoffmann, U. Quaeschling, Germany</b>
08.28-08.34	O 246 The fate of unruptured intracranial vertebrobasilar dissecting aneurysm with brain stem compression according to different treatment modalities. <b>D.Y. Cho, South Korea</b>
08.36-08.42	O 247 Endovascular deconstructive technique for dissecting posterior cerebral artery aneurysms: a single-center case series. <b>F.F. Hassan, Egypt</b>
08.44-08.50	O 248 Dissecting distal cerebellar artery aneurysms: PVO vs parent vessel preserving strategies. <b>G.G. Anil, L. Sein, V. Nga, K. Teo, C. Ning, C. Yang, T. Yeo, Singapore</b>

08.00-09.00	EGADI ROOM	
	Oral papers - Parallel Session W: Aneurysms <i>Blood Blister Like / Ruptured</i>	O 249 to O 255

**Moderators:** B. Pabon, *Colombia* - M. Shigeru, *Japan*

08.00-08.06	O 249 Flow-diverter stent deployment in blister-like and dissecting aneurysms in acute phase with long term follow-up. Italian single center experience. <b>G. Sanfilippo, A. Sgreccia, F. Zappoli Thyron, E. Lefe, Italy</b>
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- 08.08–08.14** O 250  
Treatment of ruptured blister-like aneurysms with Fred flow-diverter: a multicenter experience.  
**M.M. Möhlenbruch, M. Killer, N. Kocer**, *Germany, Austria, Turkey*
- 08.16–08.22** O 251  
Recurred blood blister-like aneurysm after treatment: additional treatment and follow-up.  
**J.S. Byun, T.K. Nam, H.H. Choi**, *South Korea*
- 08.24–08.30** O 252  
Stent-assisted coil embolization for ruptured intracranial dissecting aneurysms: initial and follow-up results.  
**T.T. Higashi, H. Fukumoto, A. Horio, K. Fukuda, M. Iwaasa, K. Nii, T. Inoue**, *Japan*
- 08.32–08.38** O 253  
Stent-assisted coil embolization of ruptured very small aneurysms: a single center experience.  
**E.H. Ihm, Y.Y.Seo, H.K. Lee, H.J. Woo, Y.M. Han**, *South Korea*
- 08.40–08.46** O 254  
Angiographic follow-up for small ruptured intracranial aneurysm treated by endovascular treatment: follow-up plan and long-term follow-up results.  
**J.H. Ko, Y.J. Kim**, *South Korea*
- 08.48–08.54** O 255  
Incidence of intra-procedural complications in relation to timing of endovascular treatment in ruptured intracranial aneurysms  
**C. Gaudino, F. Biraschi, L. Caschera, A. Paolucci, F.M. Triulzi, A. Bozzi, V. Conte, V. Da Ros, S.E. Navone**, *Italy*

**08.00–09.00** STROMBOLI ROOM

Oral papers - Parallel Session X: Aneurysms Ruptured / Vasospasm

O 256 to O 262

**Moderators:** **J. Wenderoth**, *Australia* - **C. Cristaudo**, *Italy*

- 08.00–08.06** O 256  
Complications in stent-assisted embolization for ruptured cerebral aneurysms in the acute period: a retrospective review.  
**G.G. Wong, S. Yu, J. Zhuang, S. Wong**, *Hong Kong*
- 08.08–08.14** O 257  
Flow diverter in the treatment of ruptured intracranial aneurysms - a single center experience.  
**A.A. Mahajan, G. Goel, V. Banga, A. Chatterjee, K.S. Narang, V.P. Singh, H. Sapra**, *India*
- 08.16–08.22** O 258  
Flow diversion of challenging ruptured intracranial aneurysms with aspirin monotherapy.  
**J. Wenderoth, N. Manning, A. Cheung**, *Australia*
- 08.24–08.30** O 259  
Is epilepsy a possible issue for the use of intra-arterial vasodilators in SAH-induced vasospasm?  
**L. Nico, J. Ognard, R. Leimassi, S. Saib, J. Gentric**, *France*

- 08.32–08.38** O 260  
Balloon and stent angioplasty for treatment of cerebral vasospasm in patients with aneurysmal subarachnoid haemorrhage - a single-centre experience.  
**M. Banez, L. Lai, R. Chandra, H. Asadi, L. Slater, W. Chong, Australia**
- 08.40–08.46** O 261  
Mechanical angioplasty using stentriever for delayed symptomatic vasospasm after subarachnoid hemorrhage.  
**G. Garignano, E. Lozupone, A. Alexandre, F. D'argento, I. Valente, A. Pedicelli, Italy**
- 08.48–08.54** O 262  
Stellate ganglion block under vascular road-map control and intra-arterial treatment. A “one-stop shop” for cerebral vasospasm after subarachnoid hemorrhage  
**M. Pileggi, M. Isalberti, P. Merlani, M. Reinert, P. Mosimann, A. Cianfoni, Switzerland**

**08.00–09.00 PANAREA ROOM**

**Oral papers - Parallel Session Y: Miscellaneous**

**O 263 to O 269**

**Moderators:** C. Bao Luo, *Taiwan* - L. Saleh, *UK*

- 08.00–08.06** O 263  
Our first experience of simultaneous endovascular embolization of proximal flow - related aneurysm and arteriovenous malformation of the brain with liquid embolic agent.  
**A. Sufianov, S. Karasev, R. Khafizov, R. Sufianov, Russia**
- 08.08–08.14** O 264  
Management of aneurysm associated with moyamoya disease: a case series of 5 patients with literature review.  
**N.U.H. Maria, Pakistan**
- 08.16–08.22** O 265  
Investigation of late granuloma-like changes after endovascular treatment; summary of 9 cases in Aichi prefecture.  
**M.M. Nishihori, T. Izumi, T. Tsukada, R. Oshima, K. Otawa, T. Kawaguchi, S. Goto, M. Ikezawa, A. Kropp, T. Wakabayashi, Japan**
- 08.24–08.30** O 266  
Congenital segmental dolichoectasia in adult mimicking aneurysm: a brief review with illustrating a case series.  
**S. Derakhshani, A. Moussa, N. Chan, S. Abdulla, UK**
- 08.32–08.38** O 267  
Capillary Malformation/Arteriovenous Malformation (CM/AVM)  
**Y.Y. Iizuka, Y. Tsutsumi, A. Berenstein, Japan, USA**
- 08.40–08.46** O 268  
Novel rasa1 mutations in japanese pedigrees with capillary malformation-arteriovenous malformation.  
**Y.Y. Moteki, H. Akagawa, Y. Niimi, Y. Okada, T. Kawamata, Japan**
- 08.48–08.54** O 269  
Endovascular treatment of Dural Arteriovenous Fistulas of the Anterior Condylar Vein.  
**R. H. Dahl, A. Biondi, F. Di Caterino, G. Vitale, G. Benndorf, France, Denmark**

**08.00-09.00** **SICILIA ROOM**  
**Oral papers - Parallel Session Z: Aneurysms Imaging & Follow-Up** **O 270 to O 276**

**Moderators:** **S. Gaikwad, India** – **C. Taschner, Germany**

- 08.00-08.06** O 270  
 Victoria - virtual neck curve and true ostium reconstruction of intracranial aneurysms.  
**S. Voß, S. Saalfeld, O. Beuing, P. Berg, Germany**
- 08.08-08.14** O 271  
 Growth rates of intracranial aneurysms undergoing surveillance imaging. A single centre study defining patient and aneurysm-related risk factors, growth chronology and patient outcomes.  
**J. Siddiqui, P. Grover, D. Dasgupta, O. Sluijters, N. Oskooee, P. Cowley, A. Toma, UK**
- 08.16-08.22** O 272  
 Is CTA with metallic artifact reduction technique to be follow up study after coil embolization of the aneurysm?  
**M.H. Rho, J. Kim, South Korea**
- 08.24-08.30** O 273  
 Image quality and radiation dose of volume of interest imaging combined with metal artifact reduction reconstruction technique in follow-up after treatment of intracranial aneurysm.  
**B.Kim, D. Cho, H. Bae, J. Choi, Y. Shin, N. Shin, J. Jang, Y. Choi, S. Jung, K. Ahn, South Korea**
- 08.32-08.38** O 274  
 Reduced radiation dose with volume-of-interest cone-beam CT combined with metal artifact reduction in flow diverter placement of cerebral aneurysm.  
**K. Sugiu, M. Hiramatsu, T. Hishikawa, N. Kidani, Y. Takahashi, S. Murai, K. Nishi, Y. Yamaoka, I. Date, Japan**
- 08.40-08.46** O 275  
 Acute interactions and healing process after flow diverter implantation. "First in humans" analysis using Optical Coherence Tomography (OCT) imaging.  
**B. Pabon, C. Diaz, J. Mejia, O. Vargas, M. Patiño, J. Gutierrez, N. Serna, Colombia**
- 08.48-08.54** O 276  
 Skull base bone reossification after endovascular treatment of carotid siphon aneurysms responsible for bone-eroding mass effect. An indirect sign of effective treatment.  
**C. Iosif, F. Di Caterino, G. Vitale, N. Chartier, A. Biondi, France**

**08.00-09.00** **SARDEGNA ROOM**  
**Oral papers - Parallel Session w: Miscellaneous** **O 277 to O 283**

**Moderators:** **L. Biscoito, Portugal** – **S. Pongpech, Thailand**

- 08.00-08.06** O 277  
 Endovascular management of life-threatening epistaxis secondary to cavernous Internal Carotid Artery (ICA) injury– an institutional experience.  
**N. Jain, L. Sebastian, M. Gupta, J. Nadarajah, S. Gaikwad, India**

- 08.08–08.14** O 278  
Venous stenting in idiopathic intracranial hypertension.  
**R. Seshadri, A.K. Gupta, H.R. Arvinda, India**
- 08.16–08.22** O 279  
Endovascular treatment of idiopathic intracranial hypertension: analysis of epidemiologic profile and immediate outcome of 7 patients.  
**L.J. Haas, B.R. Sabel, J. Martins, G.V. Staedele, W.R. Bertinelli, M. Becker, M.C. Harger, C.B. Lima, F.J. Cobra, M.D. Soares, L.C.O. Camilo, V.D. De Almeida, C.G.J.L. Brasileiro, J.D. Hessmann, L.M. Silva, V.H.T. Boer, D. De Lara, C.I.C. Bernardes, F.L. Cabal, A. De Oliveira Junior, B. Sartori, D. Malacarne, L.R.G.O. Mello, Brazil**
- 08.24–08.30** O 280  
Endovascular intervention for recurrent chronic subdural haematoma.  
**D. Le Feuvre, A. Taylor, South Africa**
- 08.32–08.38** O 281  
Post-surgical prophylactic embolization of chronic sub-dural hematomas in patients with high recurrence risk: a monocentric study.  
**E. Shotar, B. Mathon, S. Lenck, L. Meyblum, V. Degos, K. Premat, N. Sourour, A.L. Boch, A. Carpentier, F. Clarençon, France**
- 08.40–08.46** O 282  
Comparison of surgical versus intradiscal ozone treatment of sciatica dueto lumbar disc herniation.  
**N.U.H. Maria, U. Rasheed, Q.U. Ain, Pakistan**
- 08.48–8.54** O 283  
Long-term evaluation (>3 years) of ozone chemonucleolysis in lumbar disc herniation.  
**G. Campione, M. Ezeldin, C. Princiotta, M. Dall'Olio, F. De Santis, M. Celerini, L. Cirillo, Italy**

## 09.00-10.00 AUDITORIUM EUROPA

### Plenary Session 9: Aneurysms *b*

**Chairperson:** N. Sakai, *Japan*

**Moderators:** I. Linfante, *USA* – M. Mahadevan, *Malaysia*

- 09.00-09.15** Blood blister like aneurysms remain challenging lesions to treat  
**N. Kocer, Turkey**
- 09.15-09.25** Treatment of very small aneurysms (not BBL)  
**C. Cognard, France**
- 09.25-09.35** More accurate indication for the treatment of unruptured aneurysms: Aneurysm wall imaging  
**D. Hasan, USA**
- 09.35-09.45** Aneurysm wall enhancement: fact or fiction?  
**R. Van den Berg, The Netherland**
- 09.45-10.00** Discussion

## 10.00-10.10 Best Papers Award Ceremony

- 10.10-10.30** Coffee Break



**10.30-12.00 AUDITORIUM EUROPA**  
**Plenary Session 10: Aneurysms**

**Aneurysms c**

**Chairperson:** G. Lanzino, USA

**Moderators:** Y. S. Shin, South Korea - L. Pierot, France

**10.30-10.50** More than 10 years of Flow Diverter Stenting. What did we learn?  
**I. Szikora, Hungary**

**10.50-11.10** Update on the Woven EndoBridge (WEB) device  
**T. Liebig, Germany**

**11.10-11.30** Contour, Neqstent and other intrasaccular flow disrupter devices  
**G. Gál, Denmark**

**11.30-11.50** Stenting and Y-stenting. Are they still useful in Diverter/Disrupter Era?  
**I. Saatci, Turkey**

**11.50-12.00** Discussion

**Aneurysms d**

**Chairperson:** D. Le Feuvre, South Africa

**Moderators:** L. de Villers, Australia - N. Kocer, Turkey

**12.00-12.15** Pulse Rider, pCONus and other neck control devices  
**M. Aguilar-Perez, Germany**

**12.15-12.30** There is no consensus for antiaggregant drugs in INR  
**L. Thiebault, Canada**

**12.30-12.45** Is DSA the gold standard in the evaluation of angiographic results of new devices?  
**F. Turjman, France**

**12.45-13.00** Discussion

<b>13.00-14.00</b>	<b>AUDITORIUM EUROPA</b>	<b>Lunch Industry sponsored Symposium</b>
	<b>EGADI ROOM</b>	<b>Lunch Industry sponsored Symposium</b>
	<b>SICILIA ROOM</b>	<b>Lunch Industry sponsored Symposium</b>
	<b>SARDEGNA ROOM</b>	<b>Lunch Industry sponsored Symposium</b>

**14.00-15.00 AUDITORIUM EUROPA**  
**Plenary Session 11: How to introduce new devices? Ethical and Business considerations**

**Chairperson:** S. Cekirge, Turkey

**Moderators:** J. de Vries, The Netherlands, S. Gaikwad, India

**14.00-14.10** The point of view of the regulatory expert  
**H. Monstadt, Germany**

**14.10-14.20** The point of view of the industry  
**J. Dion, USA**



- 14.20-14.30** The point of view of the interventional neuroradiologist  
**C. Taschner, Germany**
- 14.30-14.35** Flash news from Europe. CE marking: fake news or reality?  
**M. Killer, Austria**
- 14.35-14.40** Flash news from USA. FDA approval for new devices: so difficult to get?  
**P. K. Nelson, USA**
- 14.40-14.45** Flash news from Elsewhere. What happens in unregulated markets?  
**A. Taylor, South Africa**
- 14.45-15.00** Discussion

**15.00-16.00 AUDITORIUM EUROPA****Plenary Session 12: The future is today: new insights on Neuro-Interventional Field**

**Chairperson:** A. Taylor, South Africa

**Moderators:** D. Tampieri, Canada - C. Islak, Turkey

- 15.00-15.10** Endovascular intervention for recurrent chronic subdural hematoma  
**D. Fiorella, USA**
- 15.10-15.25** High-resolution cone-beam CT in INR procedures. Advances and new indications  
**M. Tanaka, Japan**
- 15.25-15.40** Neurodegenerative disease and novel drug-delivery strategies  
**M. Marosfoj, USA**
- 15.40-15.45** Flash news: Something new that we did not know when this program was done  
**P. Lylyk, Argentina**
- 15.45-16.00** Discussion

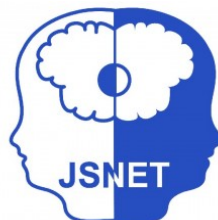
**16.00 Closing Ceremony**

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