15th 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
Tables of Contents

Past WFITN Meetings 03
Welcome Message from the Presidents of WFITN 2019 04
Welcome Message from the President of WFITN 05
WFITN Committees 06
WFITN 2019 Committees 07
WFITN 2019 Faculty List 09
Program at a glance 11
Program WFITN 2019 15
Patronage & Endorsers 82
Partner & Exhibitors 83
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 15th congress of the WFITN, held from 21st to 24th 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 15th WFITN Presidents

Alessandra Biondi
Chief of the Department of Neuroradiology and Endovascular Therapy
Jean Minjoz 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 15th 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
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
Phone: +49 171 261 6661
web: www.wfitn.org
World Federation of Interventional and Therapeutic Neuroradiology
WFITN 15th 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 Llyyk - Argentina
Makoto Negoro - Japan
Sirintara Pongpech - Thailand
George Rodesch - France
Istvan Szikora - Hungary

2nd 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 Wetzel - 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
Gioseppe Bonaldi - Italy
Serge Bracard – France
Sandra Bracco – Italy
Francesco Briganti - Italy
Waleed Brinjikji – USA
Allan Brook - USA
Patrick Brouwer - Sweden
Jan Buhk - 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 - Italy
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 Guarneri - 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 Maurit – The Netherlads
Michael Mawad - Lebanon
Fabienne Menu - France
Hermann Monstadt – Germany
Byung Moon Kim – South Korea
Pasquale Mordini - 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
Harriette Petersen-Baltussen - The Netherlands
Johannes Pfaff - Germany
Thong Minh Pham - Vietnam
Laurent Pierot – France
Roni Piske – Brasil  
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
Sekine 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
<table>
<thead>
<tr>
<th>Time</th>
<th>Auditorium Europa</th>
<th>Egadi Room</th>
<th>Eole - Stromboli Room</th>
<th>Eole - Panarea Room</th>
<th>Sicilia Room</th>
<th>Sardegna Room</th>
<th>E-Poster Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:15-09:50</td>
<td>Plenary Session 1 Stroke A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09:50-10:00</td>
<td>Opening Ceremony</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>Coffee Break</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30-12:00</td>
<td>Plenary Session 2 Stroke B</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00-13:00</td>
<td>Industry sponsored Symposium</td>
<td>Industry sponsored Symposium</td>
<td></td>
<td>Industry sponsored Symposium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:00-14:00</td>
<td>Lunch</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14:00-15:00</td>
<td>Main Session Topic 1 Radioprotection</td>
<td>Oral Papers Session A Spine &amp; Tumors</td>
<td>Oral Papers Session B Material &amp; Technique / Miscellaneous</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15:00-16:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:00-16:30</td>
<td>Coffee Break</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:00-17:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19:00</td>
<td>Welcome Reception</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Auditorium Europa</td>
<td>Egadi Room</td>
<td>Eolie - Stromboli Room</td>
<td>Eolie - Panarea Room</td>
<td>Sicilia Room</td>
<td>Sardegna Room</td>
<td>E-Poster Area</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------</td>
<td>------------</td>
<td>------------------------</td>
<td>----------------------</td>
<td>--------------</td>
<td>---------------</td>
<td>---------------</td>
</tr>
<tr>
<td>08.00-09.00</td>
<td></td>
<td></td>
<td></td>
<td>Plenary Session 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Intracranial AVMs</td>
<td></td>
<td></td>
<td>09.00-10.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>and Dural AVFs</td>
<td></td>
<td></td>
<td>E-poster</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Session 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aneurysms</td>
</tr>
<tr>
<td>09.00-10.00</td>
<td></td>
<td></td>
<td></td>
<td>Plenary Session 4</td>
<td>09.00-10.00</td>
<td></td>
<td>E-poster</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Psychology in INR</td>
<td></td>
<td></td>
<td>Session 5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aneurysms</td>
</tr>
<tr>
<td>10.00-10.30</td>
<td>10.00-10.30</td>
<td>Coffee Break</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.30-11.30</td>
<td>10.30-11.30</td>
<td></td>
<td></td>
<td>2nd MEETING</td>
<td></td>
<td></td>
<td>10.30-11.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Women in</td>
<td></td>
<td></td>
<td>E-poster</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Neuro-Interventional</td>
<td></td>
<td></td>
<td>Session 6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Practise (including</td>
<td></td>
<td></td>
<td>Aneurysms</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Angioplasty</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Personnel)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.30-13.00</td>
<td>11.30-13.00</td>
<td></td>
<td></td>
<td>Lunch</td>
<td></td>
<td></td>
<td>11.30-13.00</td>
</tr>
<tr>
<td>13.00-14.00</td>
<td>13.00-14.00</td>
<td></td>
<td>Industry sponsored</td>
<td>Industry sponsored</td>
<td></td>
<td></td>
<td>11.45-12.45</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Symposium</td>
<td>Symposium</td>
<td></td>
<td></td>
<td>Session 9</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>AVF</td>
</tr>
<tr>
<td>14.00-15.30</td>
<td>14.00-15.30</td>
<td></td>
<td>Main Session</td>
<td>Main Session</td>
<td></td>
<td></td>
<td>14.00-15.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Topic 2 Spine</td>
<td>Topic 3 Pediatric</td>
<td></td>
<td></td>
<td>E-poster</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Session 8</td>
</tr>
<tr>
<td>16.30-17.00</td>
<td>16.30-17.00</td>
<td>Coffee Break</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E-poster</td>
</tr>
<tr>
<td>17.00-18.00</td>
<td>17.00-18.00</td>
<td>General Assembly</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Session 9</td>
</tr>
<tr>
<td>20.00</td>
<td>20.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>San Carlo</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Theater and</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Social Dinner</td>
</tr>
<tr>
<td>Time</td>
<td>Auditorium Europa</td>
<td>Egafli Room</td>
<td>Estia - Stromboli Room</td>
<td>Estia - Panarea Room</td>
<td>Sicilia Room</td>
<td>Sardinia Room</td>
<td>E-Poster Area</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------</td>
<td>-------------</td>
<td>------------------------</td>
<td>----------------------</td>
<td>--------------</td>
<td>---------------</td>
<td>---------------</td>
</tr>
<tr>
<td>08.00-09.30</td>
<td>Plenary Session 5</td>
<td></td>
<td></td>
<td>ETMINT Symposium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spinal AVMs/AVFs</td>
<td></td>
<td></td>
<td>for Angioplasty and</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>and Dural AVFs</td>
<td></td>
<td></td>
<td>Pedestal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09.30-10.00</td>
<td>The Pierre Lagrange Memorial Lecture</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.00-10.30</td>
<td>Coffee Break</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.30-11.30</td>
<td>Plenary Session 6</td>
<td></td>
<td></td>
<td>ETMINT Symposium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intracranial Stenosis</td>
<td></td>
<td></td>
<td>for Angioplasty and</td>
<td>11.30-11.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Pedestal</td>
<td>E-poster</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Session 10</td>
<td>Session 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.30-13.00</td>
<td>Plenary Session 7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>From Bench to Bed: Research and Development</td>
<td></td>
<td></td>
<td></td>
<td>11.50-11.20</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>E-poster</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Session 11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.00-14.00</td>
<td>Industry sponsored Symposium</td>
<td></td>
<td></td>
<td></td>
<td>12.00-12.32</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lunch</td>
<td></td>
<td></td>
<td></td>
<td>E-poster</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Session 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Miscellaneous</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>AVMs 1</td>
<td>Session K</td>
<td>AVM/Dural AVFs 2/</td>
<td>M6eurysms</td>
<td>Session O</td>
<td>Session O</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Miscellaneous</td>
<td>M6eurysms</td>
<td>Aneurysms</td>
<td>Aneurysms</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Myelomectomy / Surgery</td>
<td>Coiling</td>
<td>Stent-assisted coiling</td>
<td></td>
</tr>
<tr>
<td>15.30-16.00</td>
<td>Special Session</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The Life of a</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scientific Journal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.00-16.30</td>
<td>Coffee Break</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.30-17.30</td>
<td>Plenary Session 8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aneurysms (a)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aneurysms</td>
<td>Session O</td>
<td>Aneurysms</td>
<td>Session S</td>
<td>Session T</td>
<td>Session U</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flow diverted stenting</td>
<td></td>
<td>Flow diverted stenting</td>
<td>M6eurysms</td>
<td>Aneurysms</td>
<td>Aneurysms</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Vessel wall imaging</td>
<td>Stent-assisted coiling</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>coiling</td>
<td>Stent-assisted coiling</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Auditorium Europa</td>
<td>Epidi Room</td>
<td>Eolie - Stromboli Room</td>
<td>Eolie - Panarea Room</td>
<td>Sicilia Room</td>
<td>Sardegna Room</td>
<td>E-Poster Area</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------------</td>
<td>------------</td>
<td>------------------------</td>
<td>----------------------</td>
<td>--------------</td>
<td>---------------</td>
<td>--------------</td>
</tr>
<tr>
<td>08.00-09.00</td>
<td>Oral Papers</td>
<td>Oral Papers</td>
<td>Oral Papers</td>
<td>Oral Papers</td>
<td>Oral Papers</td>
<td>Oral Papers</td>
<td>Oral Papers</td>
</tr>
<tr>
<td></td>
<td>Session V</td>
<td>Session W</td>
<td>Session X</td>
<td>Session Y</td>
<td>Session 2</td>
<td>Session w</td>
<td>Session w</td>
</tr>
<tr>
<td></td>
<td>Aneurysms</td>
<td>Aneurysms</td>
<td>Aneurysms Ruptured</td>
<td>Miscellaneous</td>
<td>Aneurysms</td>
<td>Miscellaneous</td>
<td>Miscellaneous</td>
</tr>
<tr>
<td></td>
<td>Fusiform / Dissecting</td>
<td></td>
<td></td>
<td></td>
<td>Imaging &amp; Follow-Up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09.00-10.00</td>
<td>Plenary Session 9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aneurysms (b)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.00-10.10</td>
<td>Award Ceremony</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.10-10.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10.30-12.00</td>
<td>Plenary Session 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aneurysms (c)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.00-13.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aneurysms (d)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.00-14.00</td>
<td>Industry sponsored Symposium</td>
<td>Industry sponsored Symposium</td>
<td>Industry sponsored Symposium</td>
<td>Industry sponsored Symposium</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.00-15.00</td>
<td>Plenary Session 11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>How to introduce new devices?</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ethical and business considerations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.00-16.00</td>
<td>Plenary Session 12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The future is today: New insights on NRI</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.00</td>
<td>Closing Ceremony</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 15th 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
### Monday, 21st October

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 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                                                             |
| 15.00-15.20 | **Chairperson: W. Chong, Australia**  
                      **Moderators: F. Ricolfi, France - S. Renowden, UK** |
| 15.20-15.40 | The real radiation risk for the neuro-interventionist and for the patient in INR procedures  
                      A. Trianni, Italy                      |
| 15.40-16.00 | How to be best protected against radiations for the neuro-interventionist  
                      J. Pfaff, Germany                      |
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.00–14.06</td>
<td>O 001</td>
<td>The ‘Stent-Screw Assisted Internal Fixation’ (SAIF) technique to reconstruct the vertebral body in severe osteoporotic spinal fractures with middle column involvement.</td>
<td>D. Distefano, P. Scarone, M. Isalberti, M. Reinert, L. La Barbera, T. Villa, J.A. Hirsch, G. Bonaldi, A. Cianfoni</td>
<td>Switzerland, Italy, USA</td>
</tr>
<tr>
<td>14.16–14.22</td>
<td>O 003</td>
<td>Pilot Study of Stent-Screw Assisted Internal Fixation (SAIF) technique for treatment of osteoporotic severe vertebral body collapse.</td>
<td>M. Pileggi, R. Delfanti, M. Isalberti, D. Distefano, P. Scarone, A. Cianfoni</td>
<td>Switzerland, Italy, USA</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Title</td>
<td>Authors</td>
<td>Location</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------</td>
<td>----------------------------------------------------------------------</td>
<td>--------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>15.04–15.10</td>
<td>O 009</td>
<td>Radiofrequency and vertebroplasty to treat vertebral metastases.</td>
<td>M. Muto, G. Leone, G. Ambrosanio, G. Guarnieri, M. Muto, Italy</td>
<td></td>
</tr>
<tr>
<td>15.12–15.18</td>
<td>O 010</td>
<td>Challenge for chronic intractable lumbosacral radicular pain: pulsed radiofrequency treatment and volumetric modifications of the lumbar dorsal root ganglia.</td>
<td>A. Negro, F. Somma, V. D'agostino, M. Arenella, F. Tortora, Italy</td>
<td></td>
</tr>
<tr>
<td>15.20–15.26</td>
<td>O 011</td>
<td>Percutaneous treatment of atypical and aggressive symptomatic vertebral hemangioma.</td>
<td>G. Leone, M. Muto, G. Ambrosanio, P. Vassallo, G. Guarnieri, M. Muto, Italy</td>
<td></td>
</tr>
<tr>
<td>15.28–15.34</td>
<td>O 012</td>
<td>Invasive vertebral hemangioma, management and role of interventional radiology.</td>
<td>A. Sultan, T. Hassan, A. Yehia, T. I. Metwally, Egypt</td>
<td></td>
</tr>
<tr>
<td>15.44–15.50</td>
<td>O 014</td>
<td>Endovascular treatment of hypervascular brain tumors other than meningiomas.</td>
<td>L. Nico, J. Ognard, E. Magro, J. Gentric, France</td>
<td></td>
</tr>
<tr>
<td>15.52–15.58</td>
<td>O 015</td>
<td>Pre-operative direct-puncture embolization of head and neck hypervascular tumors using Squid 12.</td>
<td>A. Pedicelli, E. Lozupone, I. Valente, F. D'Argento, A. Alexandre, L. Chiumarulo, C. Colosimo, Italy</td>
<td></td>
</tr>
</tbody>
</table>

**SICILIA ROOM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.00–16.06</td>
<td>O 016</td>
<td>Usefulness of vessel models made with 3d printer in endovascular therapy.</td>
<td>T. Imai, T. Osanai, T. Soyama, D. Abo, K. Kudo, Japan</td>
<td></td>
</tr>
</tbody>
</table>

**Moderators**: C. Papagiannaki, France - B. Moon Kim, South Korea
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.56–15.02</td>
<td>O 023</td>
<td>Brain tissue iron quantification at the periphery of the hematoma by MRI in patients with intracerebral hemorrhage: translational evidence in first 10 patients.</td>
<td>N. Chaudhary, A. Pandey, J. Griauzde, J. Gemmete, G. Xi, R. Keep</td>
<td>USA</td>
</tr>
<tr>
<td>15.04–15.10</td>
<td>O 024</td>
<td>Can VW-MRI assess the difference between thunderclap headache in patients with aneurysms?</td>
<td>L. Cirillo, A. Rustici, C. Bortolotti, C. Principotta, M. Dall’Olio, P. Cortelli, C. Sturiale, M. Cellerini, S. Cevoli</td>
<td>Italy</td>
</tr>
<tr>
<td>15.28–15.34</td>
<td>O 027</td>
<td>Visualization of the human intracranial vasa vasorum in vivo.</td>
<td>L. Zhang</td>
<td>China</td>
</tr>
<tr>
<td>15.36–15.42</td>
<td>O 028</td>
<td>Staff eye-lens dose monitoring during interventional neuroradiology procedures.</td>
<td>S. Busoni, F. Rossi, S. Doria, S. Pifffer, L. Redapi, S. Mangiafico</td>
<td>Italy</td>
</tr>
<tr>
<td>15.44–15.50</td>
<td>O 029</td>
<td>Safeguard manual assist technique for the management of femoral percutaneous access in cerebral neurovascular procedures: a single center prospective analysis.</td>
<td>F. Di Caterino, G. Vitale, E. Pomero, A. Biondi</td>
<td>France</td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Title</td>
<td>Authors</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>---------------</td>
<td>-----------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>16.00–16.06</td>
<td>O 031</td>
<td>Retrospective analysis of Flow Diverter Therapy for internal carotid artery aneurysms regarding aneurysm morphology.</td>
<td>H. Oishi, Japan</td>
<td></td>
</tr>
<tr>
<td>16.00-16.30</td>
<td></td>
<td>Coffee Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.30-18.30</td>
<td>AUDITORIUM EUROPA</td>
<td>Oral papers - Parallel Session C - Stroke 1</td>
<td>O 032 to O 046</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Moderators:</strong> M. Shigero, Japan - T. Andersson, Sweden</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.30–16.36</td>
<td>O 032</td>
<td>AAFITN acute stroke management consensus.</td>
<td>S. Miyachi, J. Mahadevan, W. Chong, Japan, Malaysia, Australia</td>
<td></td>
</tr>
<tr>
<td>16.54–17.00</td>
<td>O 035</td>
<td>Mothership versus drip and ship - a retrospective analysis of a regional stroke registry with 2797 patients.</td>
<td>F. Seker, S. Bonekamp, S. Rode, S. Hyrenbach, M. Bendszus, M. Möhlenbruch, Germany</td>
<td></td>
</tr>
<tr>
<td>17.02–17.08</td>
<td>O 036</td>
<td>Impact of bridging thrombolysis on clinical outcome in stroke patients undergoing thrombectomy.</td>
<td>F. Seker, S. Bonekamp, S. Rode, S. Hyrenbach, M. Bendszus, M. Möhlenbruch, Germany</td>
<td></td>
</tr>
</tbody>
</table>
17.18–17.24 O 038
Code stroke - a new open source communication platform to streamline acute stroke management.
H. M. Seah, M. Burney, J. Wu, M. Phan, D. Shell, O. Brooks, 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.

17.58–18.04 O 043
Thrombectomy in stroke patients without prior sedation: frequency of intraprocedural use of analgesedation.

18.06–18.14 O 044
Validation of a new scale allowing systematic evaluation of intraprocedural patient comfort during thrombectomy.

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.

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

**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.
A. Consoli, M. Ohlsson, F. Di Maria, A. Sgreccia, G. Rodesch, France, Sweden, Italy

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.
C.P. Stracke, M. Walloch, S.M. Pilgram-Pastor, E. Celik, R. Chapot, Germany

16.46–16.52 O 049
Embolization of spinal dural AVF using the pressure cooker technique.
C.P. Stracke, S. Pilgram-Pastor, E. Celik, M. Wallocha, E. Yamac, R. Chapot, Germany

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
Y. Ma, H. Zhang, M. Ye, C. He, G. Li, L. Sun, T. Hong, C. Yang, F. Ling, China

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.
A. Rosi, F. Di Maria, A. Consoli, S. Condette-Auliac, O. Coskun, A. Guedon, G. Rodesch, France, Switzerland

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.
S. Sato, Y. Niimi, T. Mochizuki, K. Yoshida, S. Shima, B. Ryu, T. Inoue, K. Kuwamoto, Y. Okada, Japan

17.18–17.24 O 053
Significance of pre-operative angiographic diagnosis in cases of spinal dural and epidural arteriovenous fistula.
K. Nishi, M. Hiramatsu, K. Sugiu, T. Yasuhara, T. Hishikawa, N. Kidani, Y. Takahashi, S. Murai, I. Date, Japan

17.26–17.32 O 054
Angioarchitecture and endovascular treatment for Cervical Epidural Arteriovenous Fistulas (CEAVFS).
Y. Niimi, S. Sato, T. Inoue, K. Kuwamoto, B. Ryu, S. Shima, T. Mochizuki, K. Yoshida, Y. Okada, Japan

16.34–17.40 O 055
Embolization of cranial and spinal arteriovenous fistulas using precipitating hydrophobic injectable liquid (PHIL) in 9 patients.
R.H. Dahl, V. Eskesen, L. Poulsgaard, G. Benndorf, Denmark, USA
<table>
<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Session</th>
<th>Papers</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.42-18.30</td>
<td>EGADI ROOM</td>
<td>Oral papers - Parallel Session E - Pediatric</td>
<td>O 056 to O 061</td>
</tr>
<tr>
<td><strong>Moderators:</strong> F. Causin, Italy – D. Roy, Canada</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.58–18.04</td>
<td></td>
<td>O 058</td>
<td>Fetal and neonatal MRI findings associated with aggressive early clinical course in newborns with vein of Galen malformation. L. Arko, D. Zurakowski, D. Orbach, USA</td>
</tr>
<tr>
<td>18.06–18.12</td>
<td></td>
<td>O 059</td>
<td>Large-bore neurovascular access for embolization of vein of Galen malformations in newborns and infants. Y. Baytar, S. Balci, B. Bilginer, A. Arat, Turkey</td>
</tr>
<tr>
<td>18.14–18.20</td>
<td></td>
<td>O 060</td>
<td>Endovascular management of vein of Galen aneurysms. A. Sultan, T. Hassan, T. Rayan, Egypt</td>
</tr>
<tr>
<td>18.22–18.28</td>
<td></td>
<td>O 061</td>
<td>Dural Sinus Malformation with Giant Pouch (DSMGP): symptoms and treatment. F. Requejo, Argentina</td>
</tr>
<tr>
<td>16.30–18.30</td>
<td>STROMBOLI ROOM</td>
<td>Oral papers - Parallel Session F - Stroke 2</td>
<td>O 062 to O 076</td>
</tr>
<tr>
<td><strong>Moderators:</strong> B. Pabon, Colombia - S. Mangiafico, Italy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.46–16.52</td>
<td></td>
<td>O 064</td>
<td>Evaluation of C-Arm CT Perfusion parameters for acute intracranial large artery occlusion before and immediately after mechanical thrombectomy. H. Itokawa, M. Fujimoto, M. Moriya, N. Okamoto, Y. Tsuge, J. Sasanuma, Japan</td>
</tr>
<tr>
<td>Time</td>
<td>Session Code</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>------------</td>
<td>-------------</td>
<td>----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>17.02–17.08</td>
<td>066</td>
<td>Willisian collateral failure in anterior circulation mechanical thrombectomy: its consequences and bailout.</td>
<td>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</td>
</tr>
<tr>
<td>17.18–17.24</td>
<td>068</td>
<td>Impact of basal ganglia damage after successful endovascular recanalization for acute ischemic stroke involving lenticulostriate arteries.</td>
<td>N. Horie, Y. Morofuji, Y. Iki, Y. Matsunaga, T. Kanamoto, T. Izumo, T. Anda, T. Matsuo</td>
</tr>
<tr>
<td>17.26–17.32</td>
<td>069</td>
<td>Relationship between 3-D rotational angiography and perforator infarction following percutaneous transluminal angioplasty for middle cerebral artery stenosis.</td>
<td>H. Yamazaki, M. Morimoto, C. Hikita, M. Iwasaki, Y. Inaka, S. Fukuta, H. Sato</td>
</tr>
<tr>
<td>17.34–17.40</td>
<td>070</td>
<td>Avoidance of perforator occlusion during endovascular treatment for the symptomatic intradural arterial stenosis with evaluation of the plaque by magnetic resonance wall imaging.</td>
<td>S. Kim, M. Ohtaki, N. Mikuni</td>
</tr>
<tr>
<td>17.58–18.04</td>
<td>073</td>
<td>Efficacy and safety of endovascular thrombectomy for selected patients with large vessels occlusion beyond 6 hours after stroke.</td>
<td>M. Morimoto, M. Iwasaki, H. Yamazaki, C. Hikita, Y. Inaka, S. Fukuta, H. Satow</td>
</tr>
<tr>
<td>18.06–18.12</td>
<td>074</td>
<td>6 to 24 hours endovascular thrombectomy for large intracranial vessel occlusion without perfusion CT patient selection: single center experience.</td>
<td>A. Alexandre, F. Giubbolini, I. Valente, E. Lozupone, F. D’Argento, C. Colosimo, A. Pedicelli</td>
</tr>
<tr>
<td>Time</td>
<td>Session Title</td>
<td>Authors</td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>---------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>16.30–18.30</td>
<td>Oral papers - Parallel Session G - Stroke 3</td>
<td>O 077 to O 091</td>
<td></td>
</tr>
<tr>
<td>16.46–16.52</td>
<td>O 079</td>
<td>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.</td>
<td>Y. Hanaoka, J. Koyama, D. Yamazaki, T. Horiuchi, Japan</td>
</tr>
<tr>
<td>17.10–17.16</td>
<td>O 082</td>
<td>How Safe And Useful Is Selective Intra-Arterial Administration Of Urokinase In Mechanical Thrombectomy Era?</td>
<td>N. Mandruzzato, Augelli, A. Agnello, M. Plebani, P. Zampieri, A. Grazioli, G. Ricciardi, E. Ciceri, Italy</td>
</tr>
<tr>
<td>17.18–17.24</td>
<td>O 083</td>
<td>Pre-morbid stat in treatment affects neuroimaging findings in acute ischemic stroke patients.</td>
<td>F. Di Giuliano, 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</td>
</tr>
</tbody>
</table>
17.34–17.40  
O 085  
The Impact of Nets in stroke and myocardial infarction.  

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. Gilvary, 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.  

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. Tagliatala, S. Isceri, 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
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

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. Cavasin, 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
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.30–18.30</td>
<td>SARDEGNA ROOM</td>
<td>Oral papers - Parallel Session I - Stroke 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.02–17.08</td>
<td>O 111</td>
<td>Safety and feasibility of carotid revascularization with stents in patients with cerebral embolic strokes.</td>
<td>J. Kovoor, J. Tejada, M. Martinez</td>
<td>USA</td>
</tr>
<tr>
<td>17.10–17.16</td>
<td>O 112</td>
<td>Multilayer Stent (CMFM) for carotid angioplasty: Buenos Aires experience.</td>
<td>C. Bleise, I. Lylyk, J. Chudyk, N. Perez, R. Viso, P. Lylyk</td>
<td>Argentina</td>
</tr>
<tr>
<td>17.18–17.24</td>
<td>O 113</td>
<td>A Retrospective multicenter study of endovascular treatment for acute carotid non-T occlusion.</td>
<td>T. Ota, K. Shigeta, T. Amano, J. Kaneko</td>
<td>Japan</td>
</tr>
</tbody>
</table>

**Moderators:** L. Valvassori, Italy - S. Bracco, Italy
<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.26–17.32</td>
<td>Feasibility and potential complications associated with hybrid recanalization of chronic cerebral carotid occlusion.</td>
<td>X. Gao</td>
<td>China</td>
</tr>
<tr>
<td>17.42–17.48</td>
<td>Asymptomatic cerebral vasoconstriction after carotid artery stenting.</td>
<td>C. Kang, J. Roh, J. Baek, S. Kim, S. Baik</td>
<td>South Korea</td>
</tr>
<tr>
<td>17.58–18.04</td>
<td>Stenting of stenosed posterior communicating artery for hemodynamic insufficiency caused by internal carotid artery occlusion.</td>
<td>X. Lu, B. Yang, Y. Ma, L.Q. Jiao</td>
<td>China</td>
</tr>
<tr>
<td>18.24–18.30</td>
<td>Mechanical thrombectomy for tandem vertebrobasilar stroke; recanalization rates and outcome.</td>
<td>D. J. Kim, S.H. Baik, B.M. Kim, J.W. Kim</td>
<td>South Korea</td>
</tr>
</tbody>
</table>

19.00 - 21.00 Welcome Reception
Monday, 21st October 2019 E-Posters

**Poster Session 1: Stroke**

**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.


14.04-14.06  
P 003  
Acute ischaemic stroke treatment at AORN Cardarelli, Naples. A retrospective analysis of the first 250 patients.


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.  
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. Diomed, A. Widerk, A. Bozzi, F. Di  
Giuliano, V. Semeraro, D. Morosetti, R. Argiro, 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, K. Klaychoi, N. Witoon, A. Churojana, P. Witsayasuk, B. Sangpetnagam, 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
Monday, 21st October

15.00-16.00 E-POSTERS AREA
Poster Session 2: Stroke

Moderator: M. Bergui, Italy

15.00-15.02 P 022
Efficacy and safety of reperfusion therapy in anterior versus posterior circulation stroke. A systematic review and meta-analysis.
S.H. Lee, J. Han, I. Jung, J. Jung, South Korea

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.
T. Yoshimoto, H. Yamagami, K. Uchida, M. Ihara, K. Toyoda, T. Morimoto, N. Sakai, S. Yoshimura, Japan

15.04-15.06 P 024
Mechanisms of acute ischemic stroke in the setting of trauma.
Z. Voronich, D. Sorte, Island

15.06-15.08 P 025
Prognosis of endovascular thrombectomy in acute ischemic stroke patients with current malignancy.
B.H. Cho, S. Yu, K. Cho, M. Park, South Korea

15.08-15.10 P 026
Postpartum period and ulcerative colitis: a dangerous couple – a case report of an ischemic stroke.
S. Corraine, A. Ferrari, F. Fusaro, F. Schirru, V. Palmisano, C. Ganau, S. Comelli, Italy

15.10-15.12 P 027
Eagle syndrome, an unusual cause of acute ischemic stroke requiring a thrombectomy approach.
M. Plebani, P. Zampieri, A. Grazioi, R. Augelli, A. Gasparini, G. Talenti, S. Forlivesi, S. Forlivesi, E. Ciceri, Italy

15.12-15.14 P 028
Successful mechanical thrombectomy of embolic posterior circulation stroke at 23 hours after onset in a young female with cardiac myxoma.
V. Bhatia, A. Kumar, C. Jain, India

15.14-15.16 P 029
Usefulness of total thrombus-formation analysis system in predicting hemorrhagic complications during neuroendovascular treatment.
K. Arimura, A. Nishimura, K. Iihara, Japan

15.18-15.20 P 030
Risk prediction of parenchymal hematoma after endovascular thrombectomy for acute ischemic stroke with anterior circulation large vessel occlusion.
J. Kang, C.H. Kim, O.Y. Kwon, South Korea

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.
D.H. Lee, J.H. Sung, M.H. Lee, South Korea
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

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

Clot collection and analysis in the excellent registry

Post-contrast hyperintense vessel on delayed gd-enhanced T1W TSE image in acute infarct
D. W. Park, T.Y. Kim, South Korea

Endovascular treatment for acute large vessel occlusion due to atherosclerosis.
M. Shirakawa, S. Yoshimura, N. Sakai, H. Yamagami, K. Uchida, T. Morimoto, Japan

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

Usefulness of balloon expandable stenting for atherosclerotic severe stenosis of intracranial artery.
M. Hirohata, Japan

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

Risk factors for periprocedural complications of angioplasty/stent for intracranial stenosis.
H. Ishihara, F. Oka, T. Nishimoto, K. Okazaki, M. Suzuki, Japan

Bilateral ophthalmic artery occlusion in a case of antiphospholipid antibody syndrome.
W.B. Seung, H. Jeong, South Korea

Thrombectomy and stenting of an acute intracranial dissection: clinical and hystological considerations.
J.D. Gabrieli, G. Cester, A. Angelini, M. Fedrigo, M. Colasurdo, D. Simonato, F. Causin, Italy
<table>
<thead>
<tr>
<th>Time</th>
<th>Poster Session 3: Carotid</th>
<th>P 043 to P 068</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.00-17.00</td>
<td><strong>E-POSTERS AREA</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Moderator:** P. Machi, Switzerland

**Poster Session 3: Carotid P 043 to P 068**

- **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. Quateen, 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. Taglialatela, S. Iseri, 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.

- **16.20-16.22**
  - **P 052**
  - Clinical results and technical considerations about a double-layer carotid stent: experience in 78 patients.
  - *F. Taglialatela, S. Iseri, 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: periprocedual 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.

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.

16.38-16.40 P 061
Cerebral blood flow changes along with staged angioplasty for the patients with carotid artery stenosis.

16.40-16.42 P 062
Carotid artery stenting using additional duplex-guidance.
**T. Ohashi, Japan**
<table>
<thead>
<tr>
<th>Session Time</th>
<th>Paper No.</th>
<th>Title</th>
<th>Authors</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.42-16.44</td>
<td>P 063</td>
<td>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.</td>
<td><strong>K. Kwon, M. Byun</strong>, South Korea</td>
<td></td>
</tr>
<tr>
<td>16.44-16.46</td>
<td>P 064</td>
<td>Risk factors of ipsilateral, contralateral and vertebrobasilar microembolic infarctions following carotid artery stenting.</td>
<td><strong>D.W. Park, T.Y. Kim</strong>, South Korea</td>
<td></td>
</tr>
<tr>
<td>16.46-16.48</td>
<td>P 065</td>
<td>Effect of general anesthesia on hemodynamic instability and periprocedural complications during carotid angioplasty and stent.</td>
<td><strong>S. Cho, J. Kim</strong>, South Korea</td>
<td></td>
</tr>
<tr>
<td>16.52-16.54</td>
<td>P 068</td>
<td>Investigation of LDL cholesterol for in-stent plaque, post carotid artery stenting.</td>
<td><strong>H. Wada, K. Kamada</strong>, Japan</td>
<td></td>
</tr>
</tbody>
</table>
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
Tuesday, 22nd October

11.30-13.00  AUDITORIUM EUROPA
2nd 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 neurointerventionists - 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

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

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
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, 22nd 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. Mastenbroek, The Netherlands - K. Jones, Australia

08.00-08.05  Opening
A. Mastenbroek, 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
2nd 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
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.20-14.40</td>
<td>Nursing coordination for hybrid recanalization of occluded carotid artery</td>
</tr>
<tr>
<td></td>
<td><strong>H. Zhang, NRT, China</strong></td>
</tr>
<tr>
<td>14.40-15.00</td>
<td>Mechanical thrombectomy – many ways to remove the clot</td>
</tr>
<tr>
<td></td>
<td><strong>T. Andersson, MD, Sweden</strong></td>
</tr>
<tr>
<td>15.00-15.20</td>
<td>Education for technicians in stroke</td>
</tr>
<tr>
<td></td>
<td><strong>W. H. Van Zwam, MD, The Netherlands</strong></td>
</tr>
<tr>
<td>15.20-15.40</td>
<td>INR and AI, reality or not?</td>
</tr>
<tr>
<td></td>
<td><strong>F. Menu, NRT, France</strong></td>
</tr>
<tr>
<td>15.40-16.00</td>
<td>Biological optimization of endovascular vascular treatment of aneurysms</td>
</tr>
<tr>
<td></td>
<td><strong>A. Rouchaud, MD, France</strong></td>
</tr>
<tr>
<td>16.30-17.00</td>
<td>Coffee Break</td>
</tr>
</tbody>
</table>
Poster Session 4: Aneurysms  P 069 to P 093

Moderator: Z. Kulksár, Switzerland

08.00-08.02  P 069
Endovascular treatment of 31 anterior choroidal artery aneurysms.
T. Sugawara, N. Kimura, M. Yokosawa, R. Doijiri, K. Takahashi, T. Kikuchi, Japan

08.02-08.04  P 070
Embolization for internal carotid-posterior communicating artery aneurysm.
M. Ezura, H. Sakata, H. Uenohara, Japan

08.04-08.06  P 071
Coil embolization for unruptured cerebral aneurysm in elderly people (over 70 years old).
K. Orito, S. Kajiwara, Y. Takeuchi, M. Hirohata, M. Morioka, Japan

08.06-08.08  P 072
Treatment outcomes of coil embolization for subarachnoid hemorrhage in patients over 80 years of age.
K. Fukutome, S. Takai, R. Matsuoka, R. Maeoka, K. Takahashi, H. Ohnishi, S. Yamamoto,
T. Nishioka, Y. Kodama, Y. Kuga, H. Ohnishi, Japan

08.08-08.10  P 073
The results of endovascular treatment for elderly cerebral aneurysm in the super-aging society age.
R. Yagi, R. Hiramatsu, H. Ohnishi, N. Matsubara, S. Miyachi, T. Kuroiwa, S. Kawabata, Japan

08.10-08.12  P 074
Cost-effectiveness analysis of coil embolization for small cerebral aneurysms.
T. Ueno, Japan

08.12-08.14  P 075
Usefulness of aneurysm analysis software for determination of optimal working projection in coil embolization of intracranial aneurysms.
N. Iwata, M. Sakamoto, Japan
08.14-08.16  P 076
The timing of coil embolization for aneurysmal subarachnoid hemorrhage.

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.

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.

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

**E-POSTERS AREA**

| Poster Session 5: Aneurysms | P 094 to P 118 |

**Moderator:** S. Gallas, France

<table>
<thead>
<tr>
<th>Time</th>
<th>Poster</th>
<th>Title</th>
<th>Authors/Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.00-09.02</td>
<td>P 094</td>
<td>Endovascular treatment of extracranial pseudoaneurysm by flow diversion technique.</td>
<td>F. Petra, A. Aguado, G. Caballero, J. Lizundia, M. Grana, L. Parra, Argentina</td>
</tr>
<tr>
<td>09.02-09.04</td>
<td>P 095</td>
<td>Stent assisted aneurysm coiling in acute subarachnoid haemorrhage.</td>
<td>A. Kumar, M. Joshi, V. Bhatia, S. Vyas, C. Ahuja, India</td>
</tr>
<tr>
<td>Date</td>
<td>Session</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>--------------</td>
<td>---------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>09.06-09.08</td>
<td>P 097</td>
<td>Rescue stenting using the neuroform atlas stent during coil protrusion for ruptured intracranial aneurysms.</td>
<td>V. Semeraro, M. P. Ganimede, S. Vidali, E. Lozupone, N. M. Lucarelli, V. Gisone, M. Resta, N. Burdi</td>
</tr>
<tr>
<td>09.08-09.10</td>
<td>P 098</td>
<td>The use of bare stent in less than 2.0 mm cerebral artery for aneurysm treatment.</td>
<td>H. Yoshioka, T. Uno, A. Kambe, H. Takeuchi, M. Sakamoto, M. Kurosaki</td>
</tr>
<tr>
<td>09.10-09.12</td>
<td>P 099</td>
<td>Antiplatelet therapy for stent-assisted coil embolization of cerebral aneurysms.</td>
<td>H. Fukumoto, Y. Horio, K. Fukuda, M. Iwaasa, K. Nii, T. Inoue, T. Higashi</td>
</tr>
<tr>
<td>09.12-09.14</td>
<td>P 100</td>
<td>A case of symptomatic multiple cerebral enhancing lesions after stent-assisted coil embolization of unruptured cerebral aneurysm.</td>
<td>M. Katayama, M. Murase, S. Suga, S. Suga</td>
</tr>
<tr>
<td>09.16-09.18</td>
<td>P 102</td>
<td>A single-center experience with flow-diverter devices for intracranial unruptured aneurysm treatment.</td>
<td>T.K. Jee, P. Jeon</td>
</tr>
<tr>
<td>09.18-09.20</td>
<td>P 103</td>
<td>Efficacy and safety of flow diverter stents in the treatment of cerebral aneurysms less than five mm.</td>
<td>E. Akgul, H. B. Onan, H.T. Balli, Z. Gungoren, E.H. Aksungur</td>
</tr>
<tr>
<td>09.20-09.22</td>
<td>P 104</td>
<td>Flow-diverter stents in aneurysmal subarachnoid hemorrhage.</td>
<td>A. Alexandre, F. Giubbolini, G. Garignano, I. Valente, E. Lozupone, F. D’argento C. Colosimo, A. Pedicelli</td>
</tr>
<tr>
<td>09.24-09.26</td>
<td>P 106</td>
<td>Stentriever anchor technique during aneurysms embolization with flow-diverter.</td>
<td>G. Garignano, E. Lozupone, A. Alexandre, F. D’Argento, I. Valente, A. Pedicelli</td>
</tr>
</tbody>
</table>
Open versus flow diversion treatment of small unruptured carotid-ophthalmic aneurysms: a systematic review.


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

Delayed rupture of ic cavernous large aneurysm after ped treated by transarterial coil/onyxembolization.


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

Application of 3D fusion in pipeline apposition evaluation.

Y. Liu, China

Oclusion rate of flow diverter depends on aneurysm morphology.


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

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.


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

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

Long-term follow-up of intracranial fusiform aneurysms of vertebral arteries.

S. Kohyama, S. Iihoshi, S. Kasakura, S. Yoshikawa, E. Tsukagoshi, F. Yamane, Japan
<table>
<thead>
<tr>
<th>Time</th>
<th>Poster</th>
<th>Title</th>
<th>Authors</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.00-11.00</td>
<td>E-POSTERS AREA</td>
<td>Poster Session 6: Aneurysms</td>
<td>P 119 to P 142</td>
<td></td>
</tr>
<tr>
<td>10.00-10.02</td>
<td>P 119</td>
<td>Bilateral vertebral artery dissecting aneurysm: compressing brain stem, hidden aneurysm.</td>
<td>K. Chae, Y. Choo, S. Lee</td>
<td>South Korea</td>
</tr>
<tr>
<td>10.02-10.04</td>
<td>P 120</td>
<td>Lateral medullary infarction after distal vertebral artery trapping for management of dissecting aneurysm.</td>
<td>J.W. Choi, Y.S. Seo, D.H. Kim, J.Y. Kim</td>
<td>South Korea</td>
</tr>
<tr>
<td>10.04-10.06</td>
<td>P 121</td>
<td>Endovascular treatment with stents for ruptured dissecting aneurysms.</td>
<td>A. Ito, Y. Suzuki, Y. Oyama, K. Uno, M. Miyamoto, K. Hoya, F. Yamane, A. Matsuno</td>
<td>Japan</td>
</tr>
<tr>
<td>10.06-10.08</td>
<td>P 122</td>
<td>Delayed development of de novo contralateral vertebral artery dissecting aneurysm after endovascular treatment (2 cases).</td>
<td>J. Cho, Y. Kwak</td>
<td>South Korea</td>
</tr>
<tr>
<td>10.08-10.10</td>
<td>P 123</td>
<td>Endovascular treatment of dissecting aneurysm of the posterior communicating artery.</td>
<td>T. Kataoka, K. Takahira</td>
<td>Japan</td>
</tr>
<tr>
<td>10.10-10.12</td>
<td>P 124</td>
<td>A case of early migration of intracranial stent after dissection aneurysm treatment.</td>
<td>J. Cho, S. Kim, K. Cho, Y. Na, M. Kang, Y. Na, Y. Lee</td>
<td>South Korea</td>
</tr>
<tr>
<td>10.16-10.18</td>
<td>P 127</td>
<td>Complementary functions of open surgery and endovascular treatment in ruptured internal carotid artery dorsal wall aneurysm (2 cases).</td>
<td>J. Cho, Y. Kwak</td>
<td>South Korea</td>
</tr>
<tr>
<td>10.18-10.20</td>
<td>P 128</td>
<td>Re-rupture of a “successfully treated” dissecting ICA aneurysm.</td>
<td>U.M. Ciochon, G. Gal, G. Benndorf</td>
<td>Denmark</td>
</tr>
<tr>
<td>10.20-10.22</td>
<td>P 129</td>
<td>Effectiveness of parent artery occlusion with NBCA and coils for peripheral cerebral artery aneurysm.</td>
<td>S. Fujita, M. Hayashi, R. Suzuki, N. Hirai, Y. Hiramoto, H. Nakayama, N. Saito, K. Ito, K. Aoki, S. Iwabuchi</td>
<td>Japan</td>
</tr>
</tbody>
</table>
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. Cellerini, Italy

10.48-10.50 P 142
Global mirna expression profile reveals novel molecular players in aneurysmal subarachnoid haemorrhage.
E. Paschoal, F. M.Pascoal 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. Mtuj, 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
Dual antiplatelet therapy associated with reduced risk of clinical vasospasm in aneurysmal subarachnoid hemorrhage.
D.... 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.
Cure of cerebral arteriovenous malformation after partial embolization is just a chance or a hemodynamic process.

A. Sultan, T.I. Metwally, T. Hassan, Egypt

Posterior fossa arteriovenous malformations: a review of natural history and patient outcome in Siriraj hospital.

A. Potigumjon, A. Churojana, T. Auroonyawat, E. Chankaew, D. Songsaeng, B. Sangpetngam, P. Withyasak, Thailand

Preliminary experience with novel liquid embolising agent: precipitating hydrophobic injectable liquid (PHIL).

A. Kumar, V. Bhatia, India

The endovascular management of brain arteriovenous malformations by ethanol sclerotherapy.

Y. He, W. Bai, T. Li, China

Microcatheter rupture during AVM embolization and management in anterior choroidal artery: a case report.

T.Y. Kim, D.W. Park, South Korea

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

The value of intraoperative angiography for excision of brain arteriovenous malformation.

P. Lueangapapong, C. Kobkitsuksakul, S. Pongpech, Thailand

Patients eye lens dose during brain ArterioVenous Malformation (AVM) interventional neuroradiology (INR) procedure.

R. Wongsung, R. Thana, J. Tantivatana, A. Krisanachinda, Thailand

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

Relationship of specific genetics polymorphisms as a risk factors for the brain arteriovenous malformations development: a systematic review.

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Area</th>
<th>Description</th>
</tr>
</thead>
</table>
| 11.45-12.45| E-POSTERS AREA| Poster Session 9: AVF  
**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
<table>
<thead>
<tr>
<th>Time</th>
<th>Page</th>
<th>Title</th>
<th>Authors</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.05-12.07</td>
<td>P 170</td>
<td>Prognosis of the patients with dural arteriovenous fistulas in the sigmoid sinus.</td>
<td>T. Akiyama, T. Horiguchi, S. Takahashi, K. Yoshida</td>
<td>Japan</td>
</tr>
<tr>
<td>12.09-12.11</td>
<td>P 172</td>
<td>Arteriovenous fistulas at the craniocevical junction.</td>
<td>L.X. Xu, Y. Ma, H. Zhang, M. Li, G. Li, L. Sun</td>
<td>China</td>
</tr>
<tr>
<td>12.15-12.17</td>
<td>P 175</td>
<td>Cortical dAVF mimicking a cavernous sinus fistula obscured by MRI.</td>
<td>R. Holmoe Dahl, V. Eskesen, G. Benndorf</td>
<td>USA</td>
</tr>
<tr>
<td>12.21-12.23</td>
<td>P 178</td>
<td>The so called “occult” inferior petrosal sinus.</td>
<td>R. Holmoe Dahl, G. Benndorf</td>
<td>USA</td>
</tr>
<tr>
<td>12.25-12.27</td>
<td>P 180</td>
<td>Treatment of carotid-cavernous fistula presenting with contralateral exophthalmos; several experiences of graft stent.</td>
<td>S.Y. Chung, M.S. Park, S.H. Chang</td>
<td>China</td>
</tr>
</tbody>
</table>
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

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

Spontaneous resolution traumatic carotid cavernous fistula associated with venous outlet stenosis: two casereports.

M. Apirakkan, Thailand

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, 23rd October 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00-09.30</td>
<td>AUDITORIUM EUROPA</td>
<td>Plenary Session 5: Spinal AVMs &amp; Dural AVFs</td>
</tr>
</tbody>
</table>
|          |                   | **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* |
<p>| 11.15-11.30 |                   | Discussion |</p>
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.30-13.00</td>
<td>AUDITORIUM EUROPA</td>
<td>Plenary Session 7: From Bench to Bed - Research and Development</td>
</tr>
</tbody>
</table>
|            |                     | **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                                         |
|            |                     | **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 |
|            |                     | 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.                               |
|            |                     | 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

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

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 O 135
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. Schönberger, F. Seker, S. Nagel, P. Ringleb, M. Bendszus, M. Möhlenbruch, Germany
Trans arterial embolization of intracranial dural arteriovenous fistulas in the Onyx embolic era: a Kobe experience.


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

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

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

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

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


L. Detraz, K. Orlov, V. Berestov, V. Borodetsky, A. Rouchaud, L. Mattos, C. Mounayer, France, Russia

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
14.08-14.14  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. Clarecon, 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.  

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**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.00-15.30</td>
<td>PANAREA ROOM</td>
<td>Oral papers - Parallel Session M: Aneurysms Multimodality / Surgery O 155 to O 165</td>
<td></td>
</tr>
<tr>
<td>14.08-14.14</td>
<td>O 156</td>
<td>Endovascular treatment of complex superior cerebellar artery aneurysms using different techniques.</td>
<td>V. Kiselev, R. Gafurov, A. Perfilev, A. Sosnov, Russia</td>
</tr>
<tr>
<td>14.24-14.30</td>
<td>O 158</td>
<td>Endovascular treatment of large and giant cranial aneurysms.</td>
<td>H. Kang, J. Lee, Y. Cho, D. Yoo, M. Han, South Korea</td>
</tr>
<tr>
<td>14.32-14.38</td>
<td>O 159</td>
<td>Assisted with balloon occlusion technique for large or giant unruptured paraclinoid aneurysm clipping in hybrid operation.</td>
<td>W. Xu, S. Xiang, P. Hu, C. He, X. Li, J. Li, H. Zhang, China</td>
</tr>
<tr>
<td>14.48-14.54</td>
<td>O 161</td>
<td>Endovascular approach through direct carotid exposure for treatment of unruptured intracranial aneurysms.</td>
<td>F. Maruyama, T. Ishibashi, I. Kan, N. Kato, T. Kodama, Y. Murayama, Japan</td>
</tr>
</tbody>
</table>
15.12-15.18  | O 164  | Acute in-stent thrombosis and role of clopidogrel in dual antiplatelet therapy for flow-diverting stents: is still a gold standard drug or is it time to switch?  
**F. Fusaro**, A. Ferrari, C. Ganau, S. Corraine, F. Schirru, S. Comelli, *Italy*

**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.  


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*

**A.M. Spiotta**, M.S. Park, C.M. Schirmer, B.N. Bohnstedt, R.J. Bellon, R.A. Deleacy, D.J. Fiorella, *USA*

**M. Shojima**, D. Nakagawa, T. Kin, H. Nakatomi, *Japan*

**F. Petra**, A. Aguado, G. Caballero, M. Grana, J. Lizundia, L. Parra, *Argentina*

### Oral papers - Parallel Session O: Aneurysms Stent Assisted Coiling

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.00–14.06</td>
<td>O 177–183</td>
<td>Pre-procedural simulation for stent-assisted coiling of challenging wide-neck aneurysms.</td>
<td>N. Kaneko, S. Tateshima, G. Colby, V. Szeder, M. Nour, A. Minhas, J. Hinman, R. Jahan, G. Duckwiler, USA</td>
</tr>
<tr>
<td>14.08–14.14</td>
<td>O 178</td>
<td>Application of 3D-space combined with 3D-TOF sequence for follow-up evaluation of stent-assisted coil embolization for intracranial aneurysm.</td>
<td>S. Qiuji, L. Tianxiao, L. Li, L. Qiang, China</td>
</tr>
<tr>
<td>14.16–14.22</td>
<td>O 179</td>
<td>Long term outcome of in-stent stenosis after stent assisted coil embolization for cerebral aneurysm.</td>
<td>J.H. Ko, Y.J. Kim, South Korea</td>
</tr>
</tbody>
</table>
R. Viso, I. Lylyk, C. Bleise, P. Lylyk, N. Perez, J. Chudyk, Argentina

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

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

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
17.30–17.45  AUDITORIUM EUROPA
Oral papers - Parallel Session P: Aneurysms Flow Diverter Stenting  O 188 to O 196

**Moderators:** A. Churojana, Thailand – T. Liebig, Germany

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.

17.38–17.44  O 189
Retrograde pull-up method for pipeline implantation for extremely difficult IC cavernous aneurysm.
Y. Ito, H. Hasegawa, B. Kikuchi, K. Kitazawa, M. Koyama, H. Ohara, Y. Fujii, M. Minagawa, Japan

17.46–17.52  O 190

17.54–18.00  O 191
Preliminary results with Surpass Evolve flow diverter.
S. Derakhshani, A. Arat, Turkey

18.02–18.08  O 192
Preliminary experience with the new Surpass Evolve flow diverter: technical considerations and case study.

18.10 – 18.16  O 193
Midterm treatment results using the FRED flow diverter.
C. Ulfert, M. Moehlenbruch, M. Bendszus, Germany

18.18–18.24  O 194
The FRED Jr flow diverter – first in man, long term follow-up from a single centre experience.
J. Chudyk, I. Lylyk, N. Perez, C. Bleise, R. Viso, P. Lylyk, Argentina

18.26–18.32  O 195
Seven years follow-up of intra-cranial aneurysms treated with different types of flow diverter stents.
G. Vitale, M. A. Moubark, F. Di Caterino, M. Findler, A. Abdallah, F. Turjman, A. Biondi, France, Egypt

18.34–18.40  O 196
Long term follow-up result of flow diversion in unruptured large and giant intracranial aneurysm.
D. Y. Cho, South Korea
**Moderators:** M. Aguilar-Perez, *Germany* – L. Lemme-Plaghos, *Argentina*

### 17.30–17.36
**O 197**
**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.

### 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. Quaesching, 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.
17.30-18.45  STROMBOLI ROOM
Oral papers - Parallel Session R: Aneurysms Flow Diverter Stenting   O 206 to O 214

**Moderators:** P.K. Nelson, USA – N. Sourour, France

17.30–17.36  O 206
Advanced intracranial aneurysms treatment – the Derivo embolization device.
**M. S. Medenica, D. Nestorovic, F. Vitošević, I. Vukasinović,** Serbia

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.
**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

17.42–17.48  O 208
First experience with Derivo Embolization Device (DED) in Argentina: long term follow-up.
**A. Ceciliano, F. Navarro, M. Pereira, H. Moya, E. Loncharic, F. Villasante,** Argentina

17.48–17.54  O 209
A retrospective experience of 243 patients treated with 1 year follow up.
**S. Derakhshani, A. Arat,** UK, Turkey

17.54–18.00  O 210
Carotid aneurysms presenting with cranial nerve symptoms; the comparison of treatment outcomes between coiling and flow diverter.
**S. Koizumi, J. Desilles, R. Fahed, S. Escalard, S. Smajda, G. Ciccio, H. Redjem, M. Mazighi, R. Blanc, M. Piotin,** France

18.00–18.06  O 211
Assessment of carotid sinus reflex during flow-diverter stent deployment.
**S. Goto, T. Izumi, M. Nishihori, T. Tsukada, M. Otawa, R. Oshima, T. Kawaguchi, T. Wakabayashi,** Japan

18.06–18.12  O 212
**E. Akgül, H.B. Onan, H.T. Ballı, I. Islek, G. Ertan, S.S. Bilgin,** Turkey

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.
**L. Nico, J. Ognard, J. Gentic,** France

18.18–18.24  O 214
An evaluation of health-related quality of life in patients with unruptured intracranial aneurysms
**Moderators:** G. Benndorf, Denmark - J. Schafsma, 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.

**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.

**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. Luzi, F. Arikan, D. Hernandez, P. Coscojuela, E. Martinez Saez, A. Rovira, A. Tomasello, Spain, Italy*
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.38–17.44</td>
<td>O 225</td>
<td>Short term results in the treatment of unruptured sidewall intracranial aneurysms with the use of intrasaccular aneurysm flow disruption devices.</td>
<td>F. Di Caterino, G. Vitale, A. Biondi, France</td>
</tr>
<tr>
<td>17.54–18.00</td>
<td>O 227</td>
<td>Web compaction during follow-up: the Bicêtre experience.</td>
<td>J. Caroff, C. Mihalea, I. Pagiola, M. Iacobucci, V. Chalumuea, L. Ikka, S. Gallas, A. Ozanne, J. Moret, L. Spelle, France</td>
</tr>
<tr>
<td>18.02–18.08</td>
<td>O 228</td>
<td>Aneurysm treatment with WEB in the cumulative population of 3 prospective, multicenter series: 2-year and 3-year anatomical results.</td>
<td>L. Pierot, J. Byrne, L. Spelle, France</td>
</tr>
<tr>
<td>18.10–18.16</td>
<td>O 229</td>
<td>Clipping of recanalized intracerebral aneurysms initially treated by WEB device.</td>
<td>L. Litre, France</td>
</tr>
<tr>
<td>18.18-18.24</td>
<td>O 230</td>
<td>Preliminary experiences with a new, electrically datachable, intrasaccular flow diverter, the Contour.</td>
<td>G. Gál, Denmark</td>
</tr>
<tr>
<td>18.26–18.32</td>
<td>O 231</td>
<td>Mid-term experiences with a new, intrasaccular neck-bridging device, the Neqstent.</td>
<td>G. Gál, Denmark</td>
</tr>
</tbody>
</table>
17.30–17.36 O 233
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, France, Germany, Slovak Republic

17.38–17.44 O 234
Stent assisted coil embolization of intracranial aneurysms using Neuroform Atlas stent.

17.46–17.52 O 235
Neuroform Atlas stent (NAS) in intracranial aneurysms: initial experience.
F. Villasante, F. Navarro, E. Loncharic, H. Moya, M. Pereira, A. Ceciliano, Argentina

17.54–18.00 O 236
A. Alexandre, F. Giubbolini, I. Valente, E. Lozupone, F. D’Argento, C. Colosimo, A. Pedicelli, Italy

18.02–18.08 O 237
V. Semeraro, S. Vidali, E. Lozupone, M. Ganimede, N. Lucarelli, N. Burdi, Italy

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.
J. Roh, S.K. Baik, C.H. Kang, H.W. Jeong, South Korea

18.18–18.24 O 239
Waffle cone technique using the Atlas intracranial device in ruptured aneurysms.
F. Petra, A. Aguado, G. Caballero, J. Lizundia, M. Grana, L. Parra, E. Isuany, Argentina

18.26–18.32 O 240
Neuroform Atlas stent-assisted coiling of ruptured aneurysms in not-premedicated patients. A multicenter study.

18.34–18.40 O 241
Stent-assisted coiling of cerebral aneurysms with the Neuroform Atlas stent with one year follow up.
S. Derakhshani, UK
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00-10.00</td>
<td>SICILIA ROOM</td>
</tr>
<tr>
<td></td>
<td>Symposium for Angiosuite Personnel: Nurses, Radiographers and Technicians <em>in cooperation with ESMINT</em></td>
</tr>
<tr>
<td></td>
<td>Session C: Aneurysms and AVMs</td>
</tr>
<tr>
<td></td>
<td><strong>Moderators:</strong> C. Wetzel, <em>Germany</em> - F. Menu, <em>France</em></td>
</tr>
<tr>
<td>08.00-08.10</td>
<td>Opening</td>
</tr>
<tr>
<td></td>
<td>F. Menu, <em>NRT, France</em></td>
</tr>
<tr>
<td>08.10-08.30</td>
<td>WEB, flow diverters or coils? Different treatment strategies and different morphologies</td>
</tr>
<tr>
<td></td>
<td>T. Nawka, <em>MD, Germany</em></td>
</tr>
<tr>
<td>08.30-08.50</td>
<td>WEB device: what NRTs should know</td>
</tr>
<tr>
<td></td>
<td>F. Menu, <em>NRT, France</em></td>
</tr>
<tr>
<td>08.50-09.10</td>
<td>Indications of stenting and flow diversion in treatment of cerebral aneurysm</td>
</tr>
<tr>
<td></td>
<td>L. Pierot, <em>MD, France</em></td>
</tr>
<tr>
<td>09.10-09.30</td>
<td>Management and nursing for carotid artery stenting related hemodynamic depression</td>
</tr>
<tr>
<td></td>
<td>Z. Wang, <em>NRT, China</em></td>
</tr>
<tr>
<td>09.30-10.00</td>
<td>Interactive case</td>
</tr>
<tr>
<td></td>
<td>J. Bukh, <em>MD, Germany</em></td>
</tr>
<tr>
<td>10.00-10.30</td>
<td>Coffee Break</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.30-13.00</td>
<td>SICILIA ROOM</td>
</tr>
<tr>
<td></td>
<td>Symposium for Angiosuite Personnel: Nurses, Radiographers and Technicians <em>in cooperation with ESMINT</em></td>
</tr>
<tr>
<td></td>
<td>Session D: Aneurysms and AVMs</td>
</tr>
<tr>
<td></td>
<td><strong>Moderators:</strong> H. Genins, <em>Sweden</em> - A. Mastenbroek, <em>The Netherlands</em></td>
</tr>
<tr>
<td>10.30-10.50</td>
<td>The diversity of embolic agents for treatments of AVMs</td>
</tr>
<tr>
<td></td>
<td>J. Ducasse, <em>NRT, France</em></td>
</tr>
<tr>
<td>10.50-11.10</td>
<td>4D interest analysis and treatment of brain AVM</td>
</tr>
<tr>
<td></td>
<td>S. Traore, <em>NRT, France</em> - A. Rouchaud, <em>MD, France</em></td>
</tr>
<tr>
<td>11.10-11.30</td>
<td>Interactive AVM case</td>
</tr>
<tr>
<td></td>
<td>P. Brouwer, <em>MD, Sweden</em></td>
</tr>
<tr>
<td>11.30-11.50</td>
<td>Nursing coordination for hybrid recanalization of 44 symptomatic vertebral arteries occlusion patients</td>
</tr>
<tr>
<td></td>
<td>H. Tang, <em>NRT, China</em></td>
</tr>
<tr>
<td>11.50-12.10</td>
<td>Mechanical Thrombectomy – how many retrieval attempts are enough?</td>
</tr>
<tr>
<td></td>
<td>F. Flottmann, <em>MD, Germany</em></td>
</tr>
<tr>
<td>12.10-12.25</td>
<td>Management of patients receiving a cumulative radiation dose more than 3000mGy</td>
</tr>
</tbody>
</table>
Wednesday, 23rd October

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

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

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

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

            F. Zhu, L. Jiao, China
### Wednesday, 23rd October 2019 – E-Posters

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

11.10-11.12

P 202

Spinal epidural arterio-venous malformations - an institutional experience. 


11.12-11.14

P 203

An adult case of nonvertebral paraspinel 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

Wednesday, 23rd October
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.02-12.04</td>
<td>P 205</td>
<td>The angiographic quality in term of radiologist satisfaction using the different percentage of the contrast media concentration.</td>
<td>P. Poonkarun, P. Thomya, P. Poonkarun, N. Rodiead, Thailand</td>
<td>Thailand</td>
</tr>
<tr>
<td>12.06-12.08</td>
<td>P 207</td>
<td>Extracranial and intracranial anastomosis and its clinical implications in therapeutic neurointerventions.</td>
<td>V. Bhatia, A. Kumar, India</td>
<td>India</td>
</tr>
<tr>
<td>12.08-12.10</td>
<td>P 208</td>
<td>Isolated trochlear nerve palsy in a patient with superior cerebellar rete mirabile.</td>
<td>E.J. Kim, Y. Shin, C.W. Ryu, K.M. Lee, E.K. Yeon, J.S. Lee, South Korea</td>
<td>South Korea</td>
</tr>
<tr>
<td>12.12-12.14</td>
<td>P 210</td>
<td>Diagnosis and treatment of brain stem venous hypertensive congestion.</td>
<td>L. Yan, Y.J. Ma, G.L. Li, T. Hong, L.Y. Sun, H.Q. Zhang, China</td>
<td>China</td>
</tr>
<tr>
<td>12.14-12.16</td>
<td>P 211</td>
<td>Neurovascular manifestations of NFI- a pictorial essay based on our cases.</td>
<td>L.J.D. Sebastian, J. Nadarajah, M. Gupta, A. Garg, S.B. Gaikwad, India</td>
<td>India</td>
</tr>
<tr>
<td>12.16-12.18</td>
<td>P 212</td>
<td>Cerebro vascular manifestations of neurofibromatosis type 1 - a pictorial review.</td>
<td>N. Jain, M. Gupta, J. Nadarajah, L. Deverajan, S. Gaikwad, India</td>
<td>India</td>
</tr>
<tr>
<td>12.18-12.20</td>
<td>P 213</td>
<td>Extracranial vertebral arteriovenous fistula in a patient with neurofibromatosis type 1.</td>
<td>T. Nakazawa, A. Tsuji, Y. Yoshimura, K. Tsuji, K. Nozaki, Japan</td>
<td>Japan</td>
</tr>
<tr>
<td>12.20-12.22</td>
<td>P 214</td>
<td>Infiltrated embolization of meningioma with dilute cyanoacrylate glue.</td>
<td>O. Hiroyuki, T. Kenkichi, M. Kenichi, K. Yuji, K. Yoshihiro, O. Hideyuki, Japan</td>
<td>Japan</td>
</tr>
<tr>
<td>12.24-12.26</td>
<td>P 216</td>
<td>Combined management of hypervascular brain tumors in hybrid operating room.</td>
<td>R. Mori, I. Kan, T. Kodama, T. Ishibashi, Y. Akasaki, Y. Murayama, Japan</td>
<td>Japan</td>
</tr>
</tbody>
</table>
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
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00-09.00</td>
<td>AUDITORIUM EUROPA</td>
<td>Oral papers - Parallel Session V: Aneurysms Fusiform / Dissecting</td>
<td><strong>Moderators:</strong> F. Hui, Singapore - R. Anxionnat, France</td>
<td></td>
</tr>
<tr>
<td>08.00-08.06</td>
<td></td>
<td>O 242</td>
<td>Application of low-profile flow-diverting stents in the treatment of fusiform, distal aneurysms or for destructive operations.</td>
<td>A. Petrov, S. Goroshenko, L. Rozchenko, Russia</td>
</tr>
<tr>
<td>08.08–08.14</td>
<td></td>
<td>O 243</td>
<td>Endovascular therapy for ruptured vertebral artery dissecting aneurysms in Japan: results from nationwide, retrospective, multi-center registries.</td>
<td>H. H. Nakamura, Fujinaka, T. Nishida, H. Kishima, N. Sakai, Japan</td>
</tr>
<tr>
<td>08.16–08.22</td>
<td></td>
<td>O 244</td>
<td>Reconstructive endovascular treatment of v4 segment of vertebral artery dissecting aneurysm with Willis covered stent: a retrospective study.</td>
<td>S. Xiang, G. Li, C. He, J. Ren, H. Zhang, China</td>
</tr>
<tr>
<td>08.24–08.26</td>
<td></td>
<td>O 245</td>
<td>Segment occlusion vs. reconstruction experience with endovascular strategies for ruptured vertebrobasilar dissecting aneurysms.</td>
<td>S. S. Schob, K. T. Hoffmann, U. Quaeschling, Germany</td>
</tr>
<tr>
<td>08.28–08.34</td>
<td></td>
<td>O 246</td>
<td>The fate of unruptured intracranial vertebrobasilar dissecting aneurysm with brain stem compression according to different treatment modalities.</td>
<td>D. Y. Cho, South Korea</td>
</tr>
<tr>
<td>08.36–08.42</td>
<td></td>
<td>O 247</td>
<td>Endovascular deconstructive technique for dissecting posterior cerebral artery aneurysms: a single-center case series.</td>
<td>F. F. Hassan, Egypt</td>
</tr>
<tr>
<td>08.44–08.50</td>
<td></td>
<td>O 248</td>
<td>Dissecting distal cerebellar artery aneurysms: PVO vs parent vessel preserving strategies.</td>
<td>G. G. Anil, L. Sein, V. Nga, K. Teo, C. Ning, C. Yang, T. Yeo, Singapore</td>
</tr>
<tr>
<td>08.00-09.00</td>
<td>EGADI ROOM</td>
<td>Oral papers - Parallel Session W: Aneurysms Blood Blister Like / Ruptured</td>
<td><strong>Moderators:</strong> B. Pabon, Colombia - M. Shigeru, Japan</td>
<td></td>
</tr>
<tr>
<td>08.00-08.06</td>
<td></td>
<td>O 249</td>
<td>Flow-diverter stent deployment in blister-like and dissecting aneurysms in acute phase with long term follow-up. Italian single center experience.</td>
<td>G. Sanfilippo, A. Sgreccia, F. Zappoli Thyrion, E. Lafe, Italy</td>
</tr>
</tbody>
</table>
Treatment of ruptured blister-like aneurysms with Fred flow-diverter: a multicenter experience.

M.M. Möhlenbruch, M. Killer, N. Kocer, Germany, Austria, Turkey

Recurred blood blister-like aneurysm after treatment: additional treatment and follow-up.

J.S. Byun, T.K. Nam, H.H. Choi, South Korea

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

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

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

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

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


A.A. Mahajan, G. Goel, V. Banga, A. Chatterjee, K.S. Narang, V.P. Singh, H. Sapra, India

Flow diversion of challenging ruptured intracranial aneurysms with aspirin monotherapy.

J. Wenderoth, N. Manning, A. Cheung, Australia

Is epilepsy a possible issue for the use of intra-arterial vasodilatators in SAH-induced vasospasm?

L. Nico, J. Ognard, R. Leimassi, S. Saib, J. Gentric, France
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
</tr>
</thead>
</table>
| 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* |

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
</tr>
</thead>
</table>
| 08.00-09.00 | PANAREA ROOM | Oral papers - Parallel Session Y: Miscellaneous  
**Moderators:** C. Bao Luo, Taïwan - 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.  
| 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* |
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Authors</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.00-09.00</td>
<td>SICILIA ROOM</td>
<td>Oral papers - Parallel Session Z: Aneurysms Imaging &amp; Follow-Up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>08.00–08.06</td>
<td></td>
<td>O 270</td>
<td>Victoria - virtual neck curve and true ostium reconstruction of intracranial aneurysms.</td>
<td>Germany</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>S. Voß, S. Saalfeld, O. Beuing, P. Berg</td>
<td></td>
</tr>
<tr>
<td>08.08–08.14</td>
<td></td>
<td>O 271</td>
<td>Growth rates of intracranial aneurysms undergoing surveillance imaging. A single centre study defining patient and aneurysm-related risk factors, growth chronology and patient outcomes.</td>
<td></td>
</tr>
<tr>
<td>08.16–08.22</td>
<td></td>
<td>O 272</td>
<td>Is CTA with metallic artifact reduction technique to be follow up study after coil embolization of the aneurysm?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M.H. Rho, J. Kim</td>
<td>South Korea</td>
</tr>
<tr>
<td>08.24–08.30</td>
<td></td>
<td>O 273</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B. Kim, D. Cho, H. Bae, J. Choi, Y. Shin, N. Shin, J. Jang, Y. Choi, S. Jung, K. Ahn</td>
<td>South Korea</td>
</tr>
<tr>
<td>08.32–08.38</td>
<td></td>
<td>O 274</td>
<td>Reduced radiation dose with volume-of-interest cone-beam CT combined with metal artifact reduction in flow diverter placement of cerebral aneurysm.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>K. Sugiu, M. Hiramatsu, T. Hishikawa, N. Kidani, Y. Takahashi, S. Murai, K. Nishi, Y. Yamaoka, I. Date</td>
<td>Japan</td>
</tr>
<tr>
<td>08.40–08.46</td>
<td></td>
<td>O 275</td>
<td>Acute interactions and healing process after flow diverter implantation. “First in humans” analysis using Optical Coherence Tomography (OCT) imaging.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>B. Pabon, C. Diaz, J. Mejia, O. Vargas, M. Patiño, J. Gutierrez, N. Serna</td>
<td>Colombia</td>
</tr>
<tr>
<td>08.48–08.54</td>
<td></td>
<td>O 276</td>
<td>Skull base bone reossification after endovascular treatment of carotid siphon aneurysms responsible for bone-eroding mass effect. An indirect sign of effective treatment.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C. Iosif, F. Di Caterino, G. Vitale, N. Chartier, A. Biondi</td>
<td>France</td>
</tr>
<tr>
<td>08.00-09.00</td>
<td>SARDEGNA ROOM</td>
<td>Oral papers - Parallel Session ω: Miscellaneous</td>
<td></td>
<td></td>
</tr>
<tr>
<td>08.00–08.06</td>
<td></td>
<td>O 277</td>
<td>Endovascular management of life-threatening epistaxis secondary to cavernous Internal Carotid Artery (ICA) injury— an institutional experience.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N. Jain, L. Sebastian, M. Gupta, J. Nadarajah, S. Gaikwad</td>
<td>India</td>
</tr>
</tbody>
</table>
Venous stenting in idiopathic intracranial hypertension.
R. Seshadri, A.K. Gupta, H.R. Arvinda, India

Endovascular treatment of idiopathic intracranial hypertension: analysis of epidemiologic profile and immediate outcome of 7 patients.

Endovascular intervention for recurrent chronic subdural haematoma.
D. Le Feuvre, A. Taylor, South Africa

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

Comparison of surgical versus intradiscal ozone treatment of sciatica due to lumbar disc herniation.
N.U.H. Maria, U. Rasheed, Q.U. Ain, Pakistan

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

Plenary Session 9: Aneurysms b

Chairperson: N. Sakai, Japan
Moderators: I. Linfante, USA – M. Mahadevan, Malaysia

Blood blister like aneurysms remain challenging lesions to treat
N. Kocer, Turkey

Treatment of very small aneurysms (not BBL)
C. Cognard, France

More accurate indication for the treatment of unruptured aneurysms: Aneurysm wall imaging
D. Hasan, USA

Aneurysm wall enhancement: fact or fiction?
R. Van den Berg, The Netherland

Discussion

Best Papers Award Ceremony

Coffee Break
Thursday, 24th October

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

13.00-14.00  AUDITORIUM EUROPA  Lunch Industry sponsored Symposium
EGADI ROOM  Lunch Industry sponsored Symposium
SICILIA ROOM  Lunch Industry sponsored Symposium
SARDEGNA ROOM  Lunch Industry sponsored Symposium

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
Thursday, 24th October

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. Marosfoi, 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
Patronage & Endorsers

**Patronage**

- **REGIONE CAMPANIA**
- **COMUNE DI NAPOLI**
- **AiNR**
- **SFNR**

**Endorsers**

- **ESMIN**
  - European Society of Minimally Invasive Neurological Therapy
- **JSNET**
- **ESO**
  - European Stroke Organisation
- **A.L.I.C.e. Italia Onlus**
  - Associazione per la Lotta all’Ictus Cerebrale
  - www.alicetalia.org
- **SNIS**
  - Society of Neuroradiological Interventional Surgery
- **SVIN**
  - endorsed by
- **World Stroke Organization**
  - 1969 - 2019
Partners & Exhibitors

**Platina Partners**

- Medtronic
  - Further, Together
- Stryker
- MicroVention Terumo

**Gold Partners**

- Cerenovus
  - Part of the Johnson & Johnson Family of Companies
- Penumbra
- Phenox
Exhibitors

Other Partners