



# SCIENTIFIC PROGRAM

## Monday, 16<sup>th</sup> of October: Stroke

### Plenary Room, level 2

07:15 – 08:00	<b>Breakfast Seminar</b> <b>Back to the basics: Stroke: epidemiology and imaging</b> Chairperson: <b>Dániel Bereczki</b> <i>Semmelweis University, Budapest, Hungary</i>  INV01 Epidemiology of stroke <b>Csaba Óváry</b> <i>National Institute of Clinical Neurosciences, Budapest, Hungary</i>  INV02 Ischemic stroke imaging <b>Rüdiger von Kummer</b> <i>Universitätsklinikum Carl Gustav Carus, Neuroradiology, Dresden, Germany</i>	Plenary Room/Monday
08:15 – 10:15	<b>Plenary Session 1.</b> <b>Stroke: What haven't been learned from the RCT-s</b> Chairperson: <b>Patrick Brouwer</b> <i>Karolinska University Hospital, Sweden</i>  Moderators: <b>Rafael Rodriguez Mercado</b> <i>University of Puerto Rico</i> <b>Rüdiger von Kummer</b> <i>Universitätsklinikum Carl Gustav Carus, Neuroradiology, Dresden, Germany</i>	Plenary Room/ Monday
08:15 – 08:20	How would you do this case? Demonstrative case presentation & audience poll	
08:20 – 08:35	INV03 Pre-thrombectomy imaging <b>Mayank Goyal</b> <i>University of Calgary, Radiology, Calgary, Canada</i>	
08:35 – 08:50	Is IVT still needed? <b>Marc Ribo</b> <i>Hospital Vall d'Hebron, Neurology, Barcelona, Spain</i>	
08:50 – 09:05	Expanding time window & wake up stroke <b>Tudor Jovin</b> <i>UPMC Stroke Institute, UPMC Center for Neuroendovascular Therapy, USA</i>	
09:05 – 09:20	Alternate thrombectomy techniques: Retrieval versus aspiration <b>Aquilla Turk</b> <i>Medical University of South Carolina, Charleston, USA</i>	
09:20 – 09:35	Thrombectomy in posterior circulation stroke: <b>Johannes C. Gerber</b> <i>University Hospital Carl Gustav Carus Dresden, Neuroradiology, Dresden, Germany</i>	
09:35 – 09:45	INV04 Sedation versus general anaesthesia for thrombectomy <b>Markus A. Möhlenbruch</b> , Martin Bendszus <i>Heidelberg University Hospital, Department of Neuroradiology, Heidelberg, Germany</i>	
09:45 – 10:00	INV05 Periprocedural antithrombotic treatment <b>Lucie Thibault</b> <i>Montreal, Canada</i>	

10:00 – 10:10	Panel discussion	
10:10 – 10:15	How would you do this case now? Demonstrative case presentation & audience poll	
<b>10:15 – 10:30</b>	<b>Opening ceremony</b>	Plenary Room/ Monday
10:30 – 11:00	Coffee break	
<b>11:00 – 12:15</b>	<b>Plenary Session 2.</b> <b>Stroke: Where are we going? Ongoing research</b>	Plenary Room/Monday
	Chairperson: <b>Jan Gralla</b> <i>Inselspital, University Hospital, Berne, University Institute of Diagnostic and Interventional Neuroradiology, Bern, Switzerland</i>	
	Moderators: <b>Orlando Diaz</b> <i>The Houston Methodist Hospital, USA</i> <b>Akira Ishii</b> <i>Kyoto University, Japan</i>	
11:00 – 11:15	Progress of the international clot research project: <b>Simon De Meyer</b> <i>KU Leuven Kulak Campus Kortrijk, Kortrijk, Belgium</i>	
11:15 – 11:30	INV06 New recanalization techniques <b>Matthew J. Gounis</b> <i>University of Massachusetts Medical School, Radiology, Worcester, USA</i>	
11:30 – 11:45	Neuroprotective bridging and endovascular treatment beyond recanalization: hyperoxygenation and intra-arterial cooling <b>Sven Poli</b> <i>Department of Neurology &amp; Stroke, Hertie Institute for Clinical Brain Research, University of Tübingen, Germany</i>	
11:45 – 12:00	Tissue regeneration: intra-arterial stem cell infusion <b>Éva Mezey</b> <i>National Institute of Health, Bethesda, USA</i>	
12:00 – 12:15	Panel discussion	
<b>12:15 – 13:15</b>	<b>Industry symposia</b>	Plenary Room/Monday
13:15 – 14:15	Lunch break	
<b>14:15 – 16:00</b>	<b>Parallel abstract sessions - Stroke</b>	Plenary Room/Monday
	Moderators: <b>Osama O. Zaidat</b> <i>St Vincent Mercy Medical Center, Toledo, United States</i> <b>Michel Piotin</b> <i>Fondation Rothschild, Interventional Neuroradiology, Paris, France</i>	
14:15 – 14:25	001 <b>Influence of Balloon, Conventional, or Distal Catheters on Angiographic and Clinical Outcomes in the STRATIS Registry</b> <b>Zaidat Osama O.</b> , Froehler Michael T., Jahan Reza, Aziz-Sultan Mohammad Ali, Klucznik Richard P, Saver Jeffrey L., Haussen Diogo C., Hellinger Jr. Frank R., Yavagal Dileep R., Yao Tom L., Liebeskind David S., Mueller-Kronast Nils H.	
14:25 – 14:35	002 <b>Prior IVT in Mechanical Thrombectomy for Acute Ischemic Stroke: Benefit or Not?</b> <b>Parra-Farinas Carmen</b> , Tomasello Weitz Alejandro, Cardona Portela Pere, De Miquel Maria Angeles, Gomis Cortina Meritxell, Castaño Duque Carlos, Blasco Jordi, Urrea Xavier, Ribó Jacobí Marc	
14:35 – 14:45	003 <b>Safety and Efficacy of the "SOFITAIRE" approach in the Endovascular Treatment of Acute Ischemic Stroke</b> <b>Pabon Boris</b> , Jorge Lopez, Diaz Carlos, Vargas Oscar, Torres Victor	

14:45 – 14:55	004 <b>Wireless ADAPT (WADAPT) Thrombectomy</b> Miskolczi Laszlo	
14:55 – 15:05	005 <b>Endovascular revascularization with contact aspiration versus stent retriever in acute Ischemic stroke with large vessel occlusion. The ASTER TRIAL</b> Piotin Michel, Blanc Raphaël, Gory Benjamin, Labreuche Julien, Marnat Gauthier, Saleme Suzanna, Costalat Vincent, Bracard Serge, Desal Hubert, Consoli Arturo, Lapergue Bertrand	
15:05 – 15:15	006 <b>Correlation of Tmax volumes with clinical outcome in anterior circulation stroke</b> Seker Fatih, Pfaff Johannes, Potreck Arne, Mundiyanapurath Siby, Ringleb Peter A., Bendszus Martin, Möhlenbruch Markus A.	
15:15 – 15:25	007 <b>Impact of vertebral patency and anatomy on reperfusion success of mechanical thrombectomy in acute basilar artery occlusions: Do we need contralateral flow-arrest?</b> Boeckh-Behrens Tobias, Prothmann Sascha, Pree David, Zimmer Claus, Wunderlich Silke, Kaesmacher Johannes	
15:25 – 15:35	008 <b>Y-configuration double-stent thrombectomy for acute intracranial bifurcation occlusion refractory to conventional thrombectomy</b> Li Zifu	
15:35 – 15:45	009 <b>Safety and efficacy of the “Push and fluff” technique for Trevo deployment: comparison with standard unsheathing technique</b> Limbucci Nicola, Nappini Sergio, Renieri Leonardo, Rosi Andrea, Laiso Antonio, Wlderk Andrea, Consoli Arturo, Mangiafico Salvatore	
15:45 – 15:55	010 <b>Mechanical thrombectomy with microcatheter for distal occlusion</b> Park Bumsoo, Kwon Hyon-Jo, Koh Hyeon-Song	
<b>16:00 – 16:15</b>	<b>Parallel Industry symposia</b>	Plenary Room/Monday
16:15 – 16:45	<i>Coffee break</i>	
<b>16:45 – 18:35</b>	<b>Parallel abstract sessions - Stroke</b>	Plenary Room/Monday
	Moderators: <b>Delgado Almandoz Jossler</b> <i>Abbott Northwestern Hospital, Neurointerventional Radiology, Minneapolis, USA</i> <b>Mansour Ossama</b> <i>Alexandria University Hospital, Stroke and Neuroendovascular unit, Alexandria, Egypt</i>	
16:45 – 16:55	011 <b>Endovascular recanalization of proximal ICA occlusion in acute ischemic stroke: the stilet-balloon technique</b> Vajda Zsolt, Nagy Csaba, Balogh Gábor, Radnai Péter, Repa Imre, Nagy Ferenc	
16:55 – 17:05	012 <b>Tips and techniques for optimal stentriever placement in mechanical thrombectomy: The longer is better?</b> Kang Jongsoo, Shim Dong-Hyun, Roh Jieun, Yeom Jeong A, Jeong Hae Woong, Kim Young Soo, Baik Seung Kug	
17:05 – 17:15	013 <b>Clinical and Cost Effectiveness of Using Evolving ACE Reperfusion Catheters as First-line Treatment of Acute Ischemic Stroke Due to Large Vessel Occlusions</b> Kayan Yasha, Delgado Almandoz Jossler E, Young Mark L, Fease Jennifer L, Scholz Jill M, Milner Anna M, Roohani Pezhman, Mulder Maximilian, Wallace Adam N, Tarrel Ronald M	

17:15 – 17:25	014 <b>A direct aspiration first-pass technique (ADAPT) versus stentriever thrombectomy in emergent large vessel intracranial occlusions</b> <b>Stapleton Christopher J</b> , Leslie-Mazwi Thabele M., Torok Collin M., Hakimelahi Reza, Hirsch Joshua A., Yoo Albert J., Rabinov James D., Patel Aman B.
17:25 – 17:35	015 <b>Frontline Therapy with the ACE Reperfusion Catheters in an Acute Ischemic Stroke Cohort</b> <b>Delgado Almandoz Josser</b> , Kayan Yasha, Young Mark, Fease Jennifer, Scholz Jill, Milner Anna, Roohani Pezhman, Hehr Timothy, Mulder Maximilian, Wallace Aaron, Tarrel Ronald
17:35 – 17:45	017 <b>Role of different imaging modalities in acute ICA occlusion: A comparative study to endovascular catheterization in 65 patients</b> <b>El Mekabaty Amgad</b> , Hao Qing, Cheng-Ching Esteban, Hussain Shazam, Spiotta Alejandro, Hui Ferdinand
17:45 – 17:55	018 <b>Thrombectomy with or without stenting of concurrent extracranial carotid disease</b> <b>Nico Lorena</b> , Yu Chen Bing, Stapf Christian, Poppe alexandre, Kotowski Marc, Odier Celine, Deschaintre Yan, Roy Daniel, Gioia Laura, Raymond Jean, Jacquin Gregory, Daneault Nicole, Weill Alain
17:55 – 18:05	019 <b>Direct aspiration first pass technique versus stent-retriever thrombectomy in acute basilar artery occlusion—Single center experience in 34 cases</b> <b>Mansour Ossama</b> , Hassan Tamer
18:05 – 18:15	020 <b>Experimental evaluation of large bore aspiration catheters performance for endovascular treatment of acute ischemic stroke</b> <b>Bernava Gianmarco</b> , Pellaton Alain, Yilmaz Hasan, Brina Olivier, Muster Michel, Erceg Gorislav, Lövblad Karl-Olof, Machi Paolo
18:15 – 18:25	021 <b>Permanent placement of self-expandable stent after refractory to recanalization with stent retriever thrombectomy in acute stroke</b> <b>Ihm Eun Hyun</b> , Lee Hyuk Gee, Woo Hyun Jin, Seo Ye Young
18:25 – 18:35	022 <b>Contrast extravasation during thrombectomy for acute ischemic stroke: incidence, endovascular management and clinical outcome</b> Kotowski Marc, <b>Nico Lorena</b> , Weill Alain, Raymond Jean, Roy Daniel

**19:30**      **Welcome reception**      Hotel InterContinental Budapest

## Session Room 1, level Monday

**07:15 – 08:00**      **Breakfast Seminar**      Session Room 1/Monday

**Back to the basics: Thrombosis and antithrombotic treatment**

Chairperson: **László Szapáry**  
*University of Pécs, Department of Neurology, Hungary*

INV07  
Clotting mechanisms related to embolic stroke  
**Krasimir Kolev**  
*Semmelweis University, Budapest, Hungary*

INV08  
Clinical pharmacology of antithrombotic drugs  
**Lucie Thibault**  
*Montreal, Canada*

14:15 – 16:00	Parallel abstract sessions - Stroke	Session Room 1/Monday
	Moderators: <b>Killer-Oberpfalzer Monika</b> <i>University Hospital Salzburg, Austria</i> <b>Berentei Zsolt</b> <i>National Institute of Clinical Neurosciences, Budapest, Hungary</i>	
14:15 – 14:25	023 <b>The value of perfusion CT as a prognostic factor after mechanical thrombectomy in anterior circulation large vessel occlusion patients</b> <b>Jang Kyung-Sool</b> , Moon Byung-Hoo, Park Sang-Kyu, Jang Dong-Kyu, Han Young-Min, Cho Byung-Rae	
14:25 – 14:35	024 <b>Utilization of acute vascular imaging and neurontervention for acute ischemic stroke patients among 20 out of 39 Hungarian stroke centers</b> <b>Pozsegovits Krisztián</b> , Nagy Péter, Szupera Zoltán, Németh László, Kondákor István, Tusa Csaba, Berente László, Salacz Pál, Vécsei László, Sas Katalin, Semjén Judit, Nikl János, Szapáry László, Kakuk Anikó, Rózsa Csilla, Horváth Melinda, Imre Piroska, Köves Ágnes, Balogh Istvan, Molnár Sándor, Folyovich András, Al-Muhanna Nadim, Béres-Molnár Katalin, Hahn Katalin, Kristóf Piroska, Szász Sándor A, Bereczki Dániel	
14:35 – 14:45	025 <b>Reduced cerebral DWI lesions after carotid artery stenting with the Casper Device</b> <b>Killer-Oberpfalzer Monika</b> , Müller-Thies Broussalis Erasmia, Mutzenbach Sebastian J	
14:45 – 14:55	026 <b>Stroke protocol performed multiphase CT angiography: correlation between the CT results and the clinical outcome in case of endovascular treatment</b> <b>Pozsár Kinga</b> , Kiss Máté, Gati Georgina, Vadász Ágnes, Kis Balázs, Martos János, Szikora István	
14:55 – 15:05	027 <b>Findings and Clinical Usefulness of the C-arm CT (Xper) after Mechanical Thrombectomy of Acute Occlusion of the Anterior Circulation</b> <b>Rho M.H.</b> , Chung E.C, Hong H.P	
15:05 – 15:15	028 <b>Diagnostic accuracy of 3D black blood MR imaging with high resolution T1 SPACE in the evaluation of intracranial arterial thrombosis</b> Al-Smadi Anas, <b>Shokufar Tahaamin</b> , Hurley Michael, Potts Mathew, Jahromi Baback, Shaibani Ali, Ansari Sameer	
15:15 – 15:25	029 <b>Value of Cone Beam CT in post-thrombectomy evaluation of acute stroke patients</b> Vadász Ágnes, Machovits Ágnes, Várallyay Péter, <b>Berentei Zsolt</b> , Gubucz Istvan, Nardai Sándor, Vajda Zsolt, Szikora István	
15:25 – 15:35	030 <b>Relation between infarct volume and location and 90 day functional outcome after acute ischemic stroke in pooled analysis of recent endovascular trials</b> <b>Boers Anna M M</b> , Jansen Ivo GH, Menon Bijoy K., San Roman Luis, Goyal Mayank, van Zwam Wim H., Roos Yvo Bwem, Yoo Albert J., Beenen Ludo FM, Lingsma Hester F., Muir Keith, Bracard Serge, Demchuk Andrew, Liebeskind David S., Campbell Bruce CV, Oostenbrugge Robert J, Dávalos Antoni, Brown Scott, White Phil, Guillemin Francis, Saver Jeffrey L, Jovin Tudor G, Hill Michael D., Mitchell Peter J, Dippel Diederik WJ, Slump Cornelis H, Marquering Henk A, Majoie Charles BLM	
15:35 – 15:45	031 <b>Imaging in patients with chronic ICA occlusion for bypass surgery triage by BOLD-fMRI using apnoe in comparison with computed tomography perfusion</b> <b>Horvath-Rizea Diana</b>	
15:45 -15:55	032 <b>Endovascular therapy of acute ischemic stroke in clinical practice: results from the MR CLEAN Registry</b> Jansen Ivo G.H., Mulder Maxim J.H.L., Goldhoorn Robert-Jan, van der Lugt Aad, Marquering Henk A., van Zwam Wim H., Roos Yvo B.W.E.M., Vos Jan-Albert, Slump Cornelis H., Schonewille Wouter, Boiten Jelis, Lycklama á Nijeholt Geert, Martens Jasper M., Hofmeijer Jeanette, van Oostenbrugge Robert J., Dippel Diederik W. J., <b>Majoie Charles B.L.M.</b>	

<b>16:00 – 16:15</b>	<b>Parallel Industry symposia</b>	Session Room 1/Monday
16:15 – 16:45	<i>Coffee break</i>	
<b>16:45 – 18:35</b>	<b>Parallel abstract sessions - Stroke</b>	Session Room 1/Monday
	Moderators: <b>Siddiqui Adnan</b> <i>SUNY University at Buffalo &amp; Kaleida Health, Buffalo, United States</i> <b>Ota Takahiro</b> <i>Tokyo Metropolitan Tama Medical Center, Neurosurgery, Japan</i>	
16:45 – 16:55	033 <b>ASPECTS 8-10 Patients Demonstrate Similar Clinical Outcomes from Thrombectomy with the 3D Revascularization Device vs Solitaire</b> <b>Siddiqui Adnan</b> , Frei Donald, Yoo Albert, Kirmani Jawad, Zaidat Osama, Lopes Demetrius, Turk III Aquilla S, Heck Donald, Mason Brian, Haussen Diogo C, Levy Elad, Mehta Siddhart, Lazzaro Marc, Chen Michael, Dörfler Arnd, Derdeyn Collin P, Schwamm Lee, Langer David, Nogueira Raul	
16:55 – 17:05	034 <b>Endovascular thrombectomy in patients with wake-up stroke or unknown symptom onset</b> <b>Bücke Philipp</b> , Aguilar Pérez Marta, Hellstern Victoria, Serna Candel Carmen, AlMatter Muhammad, Bhogal Pervinder, Bätzner Hansjörg, Henkes Hans	
17:05 – 17:15	035 <b>Efficacy of endovascular thrombectomy with onset-to-puncture time less than three hours</b> <b>Ota Takahiro</b> , Nishiyama Yasuhiro, Koizumi Satoshi, Saito Tomohiro, Ueda Masayuki	
17:15 – 17:25	036 <b>Impact of Chronic Comorbidities on Endovascular Thrombectomy</b> <b>Park Sea Mi</b> , Rosengart Axel	
17:25 – 17:35	037 <b>Mechanical thrombectomy for in-hospital ischemic stroke</b> <b>Kojima Takao</b> , Ohta Keisuke, Asai Takumi, Uematsu Takashi, Yasui Keizo, Seki Yukio, Saito Kiyoshi	
17:35 – 17:45	038 <b>Large intracranial vessel occlusion, IV thrombolysis, recanalization confirmed by DSA for intended but not required mTE: the clinical outcome</b> <b>Serna Candel Carmen</b> , Aguilar Pérez Marta, Al Matter Muhammad, Hellstern Victoria, Bhogal Paul, Bätzner Hansjörg, Henkes Hans	
17:45 – 17:55	039 <b>Contralateral carotid artery stenosis is a predictor of a poor clinical outcome after mechanical thrombectomy and acute carotid stenting in patients with anterior tandem occlusion</b> <b>Maus Volker</b> , Behme Daniel, Kabbasch Christoph, Borggreffe Jan, Brouwer Patrick, Söderman Michael, Psychogios Marios, Möhlenbruch Markus, Liebig Thomas, Dohmen Christian, Fink Gereon, Mpotsaris Anastasios	
17:55 – 18:05	040 <b>Mechanical Thrombectomy in Perioperative Strokes: A Case Control Study</b> <b>Premat Kévin</b> , Shotar Eimad, Bartolini Bruno, Di Maria Federico, Pistocchi Silvia, Sourour Nader, Clarençon Frédéric	
18:05 – 18:15	041 <b>Late recanalization of basilar artery occlusion in a previously healthy 17 month-old child</b> <b>Wilkinson D. Andrew</b> , Chaudhary Neeraj, Pandey Aditya S., Savastano Luis, Griazude Julius, Gemmete Joseph J.	
18:15 – 18:25	042 <b>Long term results of stent-assisted coiling for ruptured intracranial vertebral artery dissections</b> <b>Nakazawa Takuya</b> , Tsuji Atsusi, Yokoi Toshihiro, Yoshimura Yayoi, Ysui Keiichi, Nozaki Kazuhiko	

**Importance of thrombus location in mechanical thrombectomy and systemic thrombolysis in acute MCA occlusion**

**Lobsien Donald**, Friedrich Benjamin, Wunderlich Silke, Hobohm Carsten, Maegerlein Christian, Pree David, Hoffmann Karl-Titus, Zimmer Claus, Kaesmacher Johannes

**Session Room 2, level 4.**

Monday

**07:15 – 08:00****Breakfast Seminar**

Session Room 2/Monday

**Back to the basics: How to improve the efficacy of science? Fertilizing the field of research by clinician-scientist collaboration**Chairpersons: **György Paál**

*Budapest University of Technology and Economics, Department of Hydrodynamic Systems, Budapest, Hungary*

**Juhana Frösen**

*Kuopio University Hospital, Neurosurgery, Kuopio, Finland*

15 years of translational aneurysm research – lesson learned and caveats to be avoided

**Juhana Frösen**

*Kuopio University Hospital, Neurosurgery, Kuopio, Finland*

Over 10 years of collaboration in aneurysms research

**Gábor Janiga**

*University of Magdeburg, Laboratory of Fluid Dynamics and Technical Flows, Magdeburg, Germany*

Interdisciplinarity at its best: how inanimate flow simulations are filled with life by MDs

**György Paál**

*Budapest University of Technology and Economics, Department of Hydrodynamic Systems, Budapest, Hungary*

**13:15- 13:45****Poster Session**

Session Room 2 /Monday

Moderators: **László Solymosi**

*University Hospital Würzburg, Germany*

**Gustavo Alejandro Foa Torres**

*Radiology Specialisation, Interventional Neuroradiologist, former member of CANI (Argentinian College of Neurointerventionist), Argentina*

PP300

**MTICI vs TICI scores in an external core-lab validated mechanical thrombectomy population using the same thrombectomy device**

**Yeo Leonard LL**, Mpotsaris Anastasios, Holmberg Ake, Söderman Michael, Holmin Staffan, Söderqvist Åsa Kuntze, Ohlsson Marcus, Bhogal Pervinde, Vamsi Gontu, Andersson Tommy, Brouwer Patricius A.

PP301

**Utilization of balloon guide catheter improves recanalization rate in mechanical thrombectomy for acute stroke****Kim Byung Moon**

PP302

**Accuracy and predictive value of reader assessed and machine rated ASPECT scores on non-enhanced CT for mechanical thrombectomy in large vessel occlusion strokes**

**Kis Balázs**, Vadász Ágnes, Gáti Georgina, Várallyay Péter, Nagy András, Berentei Zsolt, Gubucz István, Nardai Sándor, Szikora István

PP303

**Clinical Factors Affecting Cognitive Function after Carotid Revascularization: A Multivariate Analysis**

**Akioka Naoki**, Kashiwazaki Daina, Takaiwa Akiko, Kuwayama Naoya, Kuroda Satoshi

PP304

**Effective use of Balloon Guide Catheter in reducing incidence of mechanical thrombectomy related distal embolization****Lee Dong Hoon**

PP305

**Predictors for intracranial hemorrhage and 3 month mortality after intra-venous or intra-arterial revascularization in acute cerebral artery occlusion**

**Cho Byung-Rae**, Jang Dong-Kyu, Park Sang-Kyu, Moon Byung-Hoo, Jang Kyung-Sool, Han Young-Min

PP306

**Randomized assessment of safety and efficacy of intra-arterial infusion of autologous stem cells in ischemic stroke**

**Gupta Vivek**, Bhatia Vikas, Dheeraj Khurana, Sharma R. R., Khandelwal N.

PP307

**The consideration of the risk factors and the frequency of ocular symptoms accompanied with ruptured vertebral artery dissecting aneurysm**

**Moteki Yosuke**, Niimi Yasunari, Sato Shinsuke, Inoue Tatsuya, Kuwamoto kentaro, Shima Shogo, Okada Yoshikazu

PP308

**A low cost nextgen Telemedicine in Stroke Treatment with Smartphone**

**Takao Hiroyuki**, Sakai Kenichiro, Yuki Ichiro, Ishibashi Toshihiro, Mitsumura Hidetaka, Terasawa Yuka, Iguchi Yasuyuki, Murayama Yuichi

13:45 – 14:15

Lunch break

14:15 – 16:00

**Parallel abstract session - Stroke**

Session Room 2 /Monday

Moderators: **Johannes A. R. Pfaff**

*Heidelberg University Hospital, Neuroradiology, Heidelberg, Germany*

**Anant Patel**

*Icahn School of Medicine at Mount Sinai, Neuroradiology, New York, USA*

14:15 – 14:25

044

**Fesability, efficacy and safety of tromboaspiration technique in the endovascular treatment of acute ischemic stroke: comparison between data from RITA Italian registry and Mr. Clean trial**

Romano Daniele G., **Casseri Tommaso**, Pero Guglielmo, Comai Alessio, Pampana Enrico, Stecco Alessandro, Causin Francesco, Paolucci Aldo, Vinci Sergio, Giorgianni Andrea, Ganci Giuseppe, Simonetti Luigi, Cioni Samuele, Bracco Sandra

14:25 – 14:35

045

**Comparison of Stent Retriever and Contact Aspiration for Treatment of Acute Stroke in the Community Hospital Setting: Retrospective Analysis of 115 Cases**

**Leesch Wolfgang**, Bazemore Christopher, Ramakrishnan Pankajavalli, Sanderson Frank

14:35 – 14:45

046

**Fesabiliy, safety and efficacy of direct tromboaspiration tecnique in acute ischemic stroke due to M2 segment occlusion: a retrospective multicenter study from italian RITA registry**

Romano Daniele G., **Casseri Tommaso**, Pero Guglielmo, Comai Alessio, Pampana Enrico, Stecco Alessandro, Causin Francesco, Paolucci Aldo, Vinci Sergio, Giorgianni Andrea, Ganci Giuseppe, Simonetti Luigi, Cioni Samuele Bracco Sandra

14:45 – 14:55

047

**The influence of conscious sedation vs. general anesthesia for mechanical thrombectomy on interventional workflow in a randomized trial - a post-hoc analysis of the SIESTA trial**

**Pfaff Johannes A. R.**, Schönenberger Silvia, Nagel Simon, Ringleb Peter A., Hacke Werner, Bendszus Martin, Bösel Julian, Möhlenbruch Markus A.

14:55 – 15:05

048

**The Role of the Lenticulostriate Arteries in the Development of Basal Ganglia Infarction in Patients with an Acute M1 Occlusion Treated with Thrombectomy**

**Khumtong Rujimas**, Schaafsma Joanna, Krings Timo

15:05 – 15:15

049

**Preischemic Neuroprotective Effect of Minocycline and Sodium Ozagrel on Transient Cerebral Ischemic Rat Model**

**Park Sang Kyu**, Song Myeong Soo



15:15 – 15:25	050 <b>Work flow in a comprehensive stroke center: Results of a first referral program quality database in Istanbul</b> Koyuncu Bahar, Poor Mohammed Reza, Harabati Hulya, Kelleci Umit, Geyik Serdar, Tolun Reha, <b>Krespi Yakup</b>	
15:25 – 15:35	051 <b>Acute stroke management using image sharing on smart phones and tablet devices</b> <b>Satomi Junichiro</b> , Kanematsu Yasuhisa, Korai Masaaki, Yamamoto Yuki, Yamamoto Nobuaki, Mizobuchi Yoshifumi, Mure Hideo, Tada Yoshietru, Nakajima Kohei, Okazaki Toshiyuki, Fujihara Toshitaka	
15:35 – 15:45	052 <b>Stent anchor with Mobile Aspiration Technique (SMART) for treating cerebral venous sinus thrombosis in high risk patients</b> <b>Patel Anant</b> , Oxley Thomas, Fifi Johanna, Sobotka Stanislaw, Mocco J, Berenstein Alejandro, De Leacy Reade	
15:45 – 15:55	053 <b>Endovascular management of intracranial sinus thrombosis</b> <b>Hellstern Victoria</b> , Aguilar-Perez MARTa, AlMatter Mohammad, Bhogal Paul, Henkes Hans	
<b>16:00 – 16:15</b>	<b>Parallel Industry symposia</b>	Session Room 2 /Monday
16:15 – 16:45	<i>Coffee break</i>	
<b>16:45 – 18:35</b>	<b>Parallel abstract session - Stroke</b>	Session Room 2/Monday
	Moderators: <b>Sugiu Kenji</b> <i>Okayama University, Neurological Surgery, Okayama, Japan</i> <b>Sándor Nardai</b> <i>National Institute of Clinical Neurosciences, Neurointerventions, Budapest, Hungary</i>	
16:45 – 16:55	054 <b>Cerebrovascular drug eluting stent vs bare metal stent in the treatment of vertebral artery stenosis: a prospective randomized controlled clinical trial</b> <b>He Yingkun</b> , Li Tianxiao	
16:55 – 17:05	055 <b>Detailed analysis regarding cerebral hyperperfusion syndrome in patients scheduled for staged angioplasty in a retrospective, Japanese multicenter study</b> <b>Hayakawa Mikito</b> , Sugiu Kenji, Yoshimura Shinichi, Hishikawa Tomohito, Yamagami Hiroshi, Sakai Nobuyuki, Iihara Koji, Ogasawara Kuniaki, Oishi Hidenori, Ito Yasushi, Matsumaru Yuji	
17:05 – 17:15	056 <b>The Revised method of Angioplasty with Wingspan stent in Angioplasty for ICAS: Poststent Ballooning</b> <b>You Seung Hoon</b> , Su Hee Cho, Ku Hyun Yang, Woo Young Jang, Moon Kyu Kim, Kwang Deog Jo	
17:15 – 17:25	057 <b>Use of angioscopy for intravascular assessment of plaque protrusion after carotid artery stenting</b> <b>Enomoto Yukiko</b> , Kawasaki Masanori, Egashira Yusuke, Yamauchi Keita, Iwama Toru	
17:25 – 17:35	058 <b>Stent placement for internal carotid artery stenosis at the skull base</b> <b>Tsuneoka Haruka</b> , Naito Isao, Aihara Masanori, Tomita Yousuke, Shimizu Tatsuya, Kano Tadashige, Asakura Ken, Miyamoto Naoko, Yoshimoto Yuhei	
17:35 – 17:45	059 <b>30 Day Results from Revascularization of Extracranial Carotid Artery Stenosis (RECAS) in China Mainland: a Prospective Cohort Trial</b> <b>Yang Bin</b> , Ma Yan, Gao Peng, Wang Yabing, Chen Yanfei, Zhu Fengshui, Jiao Liqun, Ling Feng	
17:45 – 17:55	060 <b>Clinical Analysis Comparing Efficacy between a Distal Filter Protection Device and Proximal Balloon Occlusion Device during Carotid Artery Stenting</b>	

Chung Seung Young, Chang Se Hun, Park Moon Sun

- 17:55 – 18:05 061  
**Improved Clinical Outcome of Carotid Artery Stenting by Adequate Use of Tailored CAS and CEA in Elderly Patients**  
Morimoto Masafumi
- 18:05 – 18:15 062  
**Endovascular revascularization of chronic complete occlusion of the internal carotid artery**  
Nemoto Shigeru, Namba Katsunari, Shojima Masaaki, Yoshino Yoshikazu
- 18:15 – 18:25 063  
**Use of Casper stent in internal carotid artery angioplasty**  
Haas Leandro Jose, Della Giustina Evelyn, Moura Borille Thais, Piquet Sarmento Marina, Tozzi Marques Natalia, Ahmad Omar Omar, Scramocin Thaize Regina, Saori Tulida Leticia, Sartori Felipe, Camilo Liz Caroline, Lindner Sthephanie, De Lara Danielle
- 18:25 – 18:35 064  
**Potential of new generation double-layer micromesh stent for carotid artery stenting in patients with unstable plaque - A preliminary result using OFDI analysis**  
Yoshimura Shinichi, Shirakawa Manabu, Uchida Kazutaka, Yamada Kiyofumi, Miura Kazutomo

## Session Room 3, level 4.

Monday

- | 14:15 – 15:55 | Parallel abstract sessions - Stroke  | Session Room 3/Monday |
|---------------|--|-----------------------|
|               | Moderators: <b>Santhos Raj</b><br><i>Departement of Diagnostic Radiology, Singapore General Hospital, Singapore</i><br><b>Hae Woong Jeong</b><br><i>Busan Paik Hospital, College of Medicine, Inje University, Korea</i>   |                       |
| 14:15 – 14:25 | 066<br><b>Impact of Mechanical Thrombectomy Device on Thrombus Histology in Acute Embolic Stroke</b><br>Horie Nobutaka, Morofuji Yoichi, Sadakata Eisaku, Yohei Tateishi, Izumo Tsuyoshi, Anda Takeo, Morikawa Minoru, Tsujino Akira, Matsuo Takayuki  |                       |
| 14:25 – 14:35 | 067<br><b>Relationship between density of thrombus on admission CT scan and recanalization grade in mechanical thrombectomy with stent retrievers</b><br>Correia Manuel A. A., Mendonça Mário M, Raposo Francisco, Guerreiro Carla, Teotonio Pedro, Basilio Gonçalves, Caldeira Inês, Sequeira Paulo, Biscoito Luisa, Neto Lia L, Campos Jorge |                       |
| 14:35 – 14:45 | 068<br><b>Analysis by various methods of retrieved cerebral thrombi in acute ischemic stroke</b><br>Yoon ChangHyo, Park Ji Young, Lee Eun Hye, Kim Young Soo, Park Min-Gyu, Park Kyung-Pil, Yeom Jeong A, Roh Jieun, Baik Seung Kug  |                       |
| 14:45 – 14:55 | 069<br><b>Impact of clot composition on efficacy of stent thrombectomy</b><br>Nagy András, Reiniger Lilla, Rajnai Hajnalka, Vadász Ágnes, Szikora István   |                       |
| 14:55 – 15:05 | 070<br><b>Penetration depth of stent retrievers into clots is highly dependent on stent design</b><br>Lamprecht Sophie, Jansen Olav, Riedel Christian  |                       |
| 15:05 – 15:15 | 071<br><b>Interaction between the stent strut and thrombus as characterized by contrast-enhanced high-resolution cone-beam computed tomography during deployment of the Solitaire stent retriever</b><br>Tsumoto Tomoyuki, Kurogi Ryota, Miyazaki Yuichi   |                       |
| 15:15 – 15:25 | 072<br><b>Inter MRI machines agreement for the susceptibility vessel sign to predict in vitro thrombi composition</b>  |                       |

Bourcier Romain, **Detraz Lili**, Serfaty Jean Michel, Naggara Olivier, Desal Hubert, Toquet Claire

15:25 – 15:35

073

**Endovascular venous sinus pressure measurements under conscious sedation and general anesthesia in idiopathic intracranial hypertension**

**El Mekabaty Amgad**, Obusez Emmanuel, Chung Charlotte, Luciano Mark, Hui Ferdinand

15:35 – 15:45

074

**Effect of venous sinus stenting on CSF opening pressure in patients with Idiopathic Intracranial Hypertension**

**Patsalides Athos**, Wilcox Jessica, Boddu Srikanth, Brown Kenroy, Oliveira Cristiano, Dinkin Marc

15:45 – 15:55

075

**A Case of Stent Placement for Intracranial Hypertension Associated with Venous Sinus Stenosis**

**Yamaguchi Rei**

16:15 – 16:45

*Coffee break*

**16:45 – 18:45**

**Parallel abstract sessions - Miscellaneous**

Session Room 3/Monday

Moderators:

**Wickly Lee**

*National Neuroscience Institute of Singapore, Department of Neuroradiology, Singapore*

**Jiao Liqun**

*Xuanwu Hospital, Neurosurgery, Beijing, China*

16:45 – 16:55

076

**Hybrid operations for the treatment of refractory vertebrobasilar insufficiencies**

**Lu Xia**, Ma Yan, Yang Bin, Gao Peng, Wang Yabing, Jiao Liqun, Ling Feng

16:55 – 17:05

077

**Safety and Efficacy of Transradial Neuroangiography and Intervention in Multiple Scenarios: Medellín Experience**

**Pabon Boris**, Vargas Oscar, Torres Victor, Diaz Carlos, Lopez Jorge

17:05 – 17:15

078

**Image Quality of Low Dose Cerebral Angiography and Effect on Patient Radiation Dose in Management of Intracranial Aneurysm**

Choi Jun-Sung, **Kim Bum-Soo**, Im Sang Hyuk, Choi Jae Ho, Song Ji Hye, Shin Yong Sam

17:15 – 17:25

079

**Monoplane 3D Overlay Roadmap versus Conventional Biplane 2D Roadmap Technique for Neurointerventional Procedures**

**Jang Dong-Kyu**, Stidd David A., Schafer Sebastian, Chen Michael, Moftakhar Roham, Lopes Demetrius

17:25 – 17:35

080

**Usefulness of 3D rotational angiogram with MIP slab images for pre-embolization assessment of spinal dural AVFs**

**Niimi Yasunari**, Sato Shinsuke, Inoue Tatsuya, Kuwamoto Kentaro, Moteki Yosuke, Mochizuki Yuichi, Shima Shogo, Mochizuki Tatsuya, Okada Yoshikazu, Matsui Mizuko

17:35 – 17:45

081

**Role of 320-row subtracted dynamic volume CT venography in evaluating transverse sinus stent patency in patients with idiopathic intracranial hypertension**

**El Mekabaty Amgad**, Solomon David, Moghekar Abhay, Gailloud Philippe

17:45 – 17:55

082

**Utility of Arterial Spin Labelling 3.0-T Perfusion MR Imaging in Diagnosis of Dural Arteriovenous Fistula**

**Miyamoto Michiyuki**, Ushikoshi Satoshi, Ito Akihiro, Yamada So, Yamane Fumitaka, Matsuno Akira

17:55 – 18:05

083

**Percutaneous Sclerotherapy of Head and Neck Low Flow Vascular Malformations**

**Lucas-Neto Lia**, Sequeira Paulo, Biscoito Luisa, Basílio Gonçalo, Teotónio Pedro, Correia Manuel, Campos Jorge

- 18:05 – 18:15 084  
**Small head and neck AVMs treated with preoperative embolization and surgery**  
 Niimi Yasunari, Sato Shinsuke, Inoue Tatsuya, Kuwamoto Kentaro, Moteki Yosuke, Mochizuki Yuichi, Shima Shogo, Mochizuki Tatsuya, Okada Yoshikazu
- 18:15 – 18:25 085  
**Utilization of retrograde approach for various neuroendovascular procedures**  
 Ito Yasushi, Hasegawa Hitoshi, Kikuchi Bumpei, Kitazawa Keiko, Sato Keisuke, Fujii Yukihiko
- 18:25 – 18:35 086  
**Endovascular embolization of hypervascular tumors of the skull base with Onyx using two - luminal DMSO-compatible balloon-catheter**  
 Petrov Andrey
- 18:35 – 18:45 087  
**Mid-term results of bioresorbable vascular scaffolds in interventional neuroradiology**  
 Arat Anil, Akmangit Ilkay, Daglioglu Ergun

## Session Room 4, level 5.

Monday

- |               |  |                       |
|---------------|--|-----------------------|
| 08:30 – 13:00 | <b>Symposium for nurses, technicians and radiographers in cooperation with ESMINT</b> (detailed program - see page:....)   | Session room 4/Monday |
| 14:15 – 16:00 | <b>Parallel abstract sessions – Pediatric neurointerventions</b><br>Moderators: <b>Adam Rennie</b><br><i>Great Ormond Street Hospital for Children, London, UK</i><br><b>Fergus Robertson</b><br><i>Great Ormond Street Hospital for Children, London, UK</i>                      | Session Room 4/Monday |
| 14:15 – 14:25 | 088<br><b>Course and outcome of post-neonatal presentations of vein of Galen malformation</b><br>Kanagarajah Lakshmi, Gopalan Vignesh, Schmitt Anne, Lecce Francesca, Toolis Claire, Robertson Fergus, Ganesan Vijeya, <b>Rennie Adam TM</b>                                       |                       |
| 14:25 – 14:35 | 089<br><b>Dural sinus malformation with associated dural arteriovenous fistula: Single centre experience of 11 cases</b><br><b>Robertson Fergus J.</b> , Rennie Adam, Izzath Wazim, Ganesan Vijeya   |                       |
| 14:35 – 14:45 | 090<br><b>Safety and Outcome of combined Endovascular and Surgical Management of Low Grade Cerebral Arteriovenous Malformations in Children compared to Surgery Alone</b><br>Al-Smadi Anas, <b>Shokuhfar Tahaamin</b> , Malani Aresha, Hurley Michael, Ansari Sameer, Shaibani Ali |                       |
| 14:45 – 14:55 | 091<br><b>10 Year Experience of Paediatric Aneurysm Treatment in a National Paediatric Centre</b><br><b>Schmitt Anne J.</b> , Lakshmi Kanagarajah, Vijeya Ganesan, Sanjay Bhate, Fergus Robertson, Adam Rennie   |                       |
| 14:55 – 15:05 | 092<br><b>Intracranial pial arteriovenous fistulae: clinical characteristics, endovascular treatment and outcome</b><br><b>Medhi Gorky</b> , H R Arvinda, Gupta Arun Kumar, Parida Subhendu, Pendharkar Hima, Saini Jitender   |                       |
| 15:05 – 15:15 | 093<br><b>The technique of superselective ophtalmic artery chemotherapy (SOAC) for retinoblastoma: the Argentinian experience</b><br><b>Requejo Flavio</b> , Marelli Juan, Ruiz Johnson Agustin, Cuevas David, Sampor Claudia  |                       |
| 15:15 – 15:25 | 094<br><b>Paediatric supra-selective intra-arterial chemotherapy (SIAC): safety and efficacy as a salvage therapy in intraocular retinoblastoma</b>  |                       |

Robertson Fergus J, Rennie Adam, Kanagarajah Lakshmi

15:25 – 15:35

095

**Outcomes in neonatal vein of Galen malformation**

**Rennie Adam TM**, Schmitt Anne, Kanagarajah Lakshmi, Lecce Francesca, Toolis Claire, Brew Stefan, Bhattacharya Jo, Heuchan Anne Marie, Robertson Fergus, Ganesan Vijeya

15:35 – 15:45

096

**Cerebral aneurysms in pediatric population: a multi-faceted entity**

**Requejo Flavio**, Marelli Juan Manuel, Cuevas Daniel David

15:45 – 15:55

097

**Onyx Embolization in Pediatric Neuro-interventional Procedures**

**Shokuhfra Tahaamin**, Al-Smadi Anas, Ansari Sameer, Hurley Michael, Jahromi Babak, Shaibani Ali

16:15 – 16:45

*Coffee break*

**16:45 – 18:45**

**Parallel abstract sessions – Spinal neurointerventions**

Session Room 4/Monday

Moderators:

**Insup Choi**

*Interventional Neuroradiology, Lahey Hospital Medical Center, Boston, Massachusetts, USA*

**Dae Chul Suh**

*Asian Medical Center, Republic of Korea*

16:45 – 16:55

098

**Spinal epidural arteriovenous fistulas: Clinical features and long-term outcomes of 15 cases**

**Song Yunsun**, Suh Dae Chul

16:55 – 17:05

099

**Case Series: Spinal Cord Infarction Due to the Diaphragmatic Crus Syndrome**

**Deib Gerard**, Higginbotham Lenora, Pardo-Villamizar Carlos, Wolinsky Jean-Paul, Gailloud Philippe

17:05 – 17:15

100

**Spinal Cord Macroadenomas - A series of 18 cases**

**Sebastian Leve Joseph Devarajan**, Balasundaram Parthiban, Agarwal Himanshu, Garg Ajay, Mishra Nalini K, Gaikwad Shailesh B

17:15 – 17:25

101

**Endovascular treatment of spinal dural arteriovenous fistulas**

**Correia Manuel A. A.**, Basilio Gonçalo, Mendonça Mário M, Raposo Francisco, Neto Lia L, Sequeira Paulo, Biscoito Luisa, Campos Jorge

17:25 – 17:35

102

**Novel augmented reality navigation technology with intraoperative 3D cone beam CT imaging in a hybrid operating room: Experience in open and minimally invasive spine surgery**

**Elmi Terander Adrian**, Skulason Halldor, Söderman Michael, Edström Erik, Pedersen Kyrre, Racadio John, Babic Drazenko, Nachabe Rami

17:35 – 17:45

103

**Estimation of the number of feeding arteries of Spinal arteriovenous malformations by using three dimensional-digital subtraction angiography**

**Takamiya Soichiro**, Osanai Toshiya, Seki Toshitaka, Fujima Noriyuki, Sasamori Toru, Hida Kazutoshi, Asano Tsuyoshi, Kawabori Masahito, Hamauchi Shuji, Terasaka Syunsuke, Houkin Kiyohiro

17:45 – 17:55

104

**Pre-vertebrectomy arterial supply glue embolisation: relatively easy procedure to wide neurosurgical indications**

**Comelli Simone**, Longo Alessandro, Comelli Chiara, Di Maggio Luca, Boghi Andrea, Savio Daniele, Grognardi Maria Luisa, Griva Federico, Vaudano Giacomo P.

17:55 – 18:05

105

**Predictive factors of the management of Spinal cord Arterio-venous fistulas; center experience with literature review**

**Mansour Ossama**, Ahmed Sultan, Hassan Tamer, Ibrahim Tamer

18:05 – 18:15

106

**Technical Note: Image Guidance for Percutaneous Vertebroplasty using an Optical see-through head-mounted display (OST-HMD)**

**Deib Gerard**, Johnson Alex, Osgood Gregory, Navab Nassir, Qian Long, Yu Kevin, Andress Sebastian, Unberath Mathias, Hui Ferdinand, Gailloud Philippe

18:15 – 18:25

107

**Spinal CT angiography for the detection of feeding level of spinal dural arteriovenous fistulas**

**Várallyay Péter**, Berentei Zsolt, Gubucz István, Marosfői Miklós, Szikora István

18:25 – 18:35

108

**Percutaneous ozone nucleolysis for lumbar disc herniation**

**Mohamed Mohamed Ezeldin Amin**, Cirillo Luigi, Dall'olio Massimo, Princiotta Ciro, Leonardi Marco

# Tuesday, 17<sup>th</sup> of October: Stroke & Spine

## Plenary Room, level 2

07:15 – 08:00	<b>Breakfast seminar</b> <b>Back to the basics: Spine: pain and percutaneous treatment</b> Chairperson: <b>Péter Banczerowski</b> <i>National Institute of Clinical Neurosciences, Budapest, Hungary</i>  Pathomechanisms of spinal pain <b>Kieran Murphy</b> <i>University Health Network, Canada</i>  Percutaneous spinal procedures <b>Giuseppe Bonaldi</b> <i>Hospital of Bergamo, Italy</i>	Plenary Room/Tuesday
08:00 – 10:25	<b>Plenary session 3.</b> <b>Stroke care organization</b> Chairperson: <b>Jens Fiehler</b> <i>University Medical Center Hamburg-Eppendorf, Germany</i> Moderators: <b>Marc Ribo</b> <i>Hospital Vall d'Hebron, Neurology, Barcelona, Spain</i> <b>Italo Linfante</b> <i>Interventional Neuroradiology, Herbert Wertheim College of Medicine, Florida International University, USA</i>	Plenary Room/Tuesday
08:00 – 08:30	Debate: Stroke care models 08:00 – 08:10 INV09 Drip & ship or Mother ship <b>Sónia Abilleira</b> <i>Health Department of Catalonia, Stroke Programme, Barcelona, Spain</i> 08:10 – 08:20 Ship the patient or the doctor? <b>Johanna Fifi</b> <i>The Mount Sinai Hospital, Neurology, USA</i> 08:20 – 08:30 INV10 Impact of different models on treatment efficacy: a simulative technique <b>Winston W.K. Chong, Asadi Hamed</b> <i>Monash Medical Centre, Interventional Neuroradiology, Clayton, Melbourne, Australia</i>	
08:30 – 08:45	INV11 Acute Stroke care in Europe <b>Urs Fischer</b> <i>University Hospital Bern, University of Bern, Department of Neurology, Switzerland</i>	
08:45 – 08:55	Acute Stroke care in North America <b>Raul Nogueira</b> <i>Neuroendovascular Service, Marcus Stroke &amp; Neuroscience Center, Grady Memorial Hospital, USA</i>	
08:55 – 09:05	INV12 Acute Stroke care in Japan <b>Nobuyuki Sakai</b> <i>Department of Neurosurgery, KCGH Comprehensive Stroke Center, Kobe City Medical Center General Hospital, Japan</i>	
09:05 – 09:15	INV13 Acute Stroke care in South-East Asia <b>Wickly Lee</b> <i>National Neuroscience Institute of Singapore, Department of Neuroradiology, Singapore</i>	
09:15 – 09:25	Acute Stroke care in China <b>Ling Feng</b> <i>Department of Neurosurgery, Xuanwu Hospital, China</i>	

09:25 – 09:35	Acute Stroke care in South America <b>Lautaro Badilla</b> <i>Clinica Santa Maria, Chile</i>	
09:35 – 09:45	INV14 Acute Stroke care in Africa <b>Allan Taylor</b> <i>University of Cape Town, Neurosurgery, Cape Town, South Africa</i>	
09:45 – 09:55	Acute Stroke care in Australia <b>Peter Mitchell</b> <i>The Royal Melbourne Hospital, University of Melbourne Radiology, Parkville, Australia</i>	
09:55 – 10:00	Panel discussion	
10:00 – 10:20	Debate: Who should run the show?	
10:00 – 10:10	Do you need help? Train the cardiologist <b>Adnan Siddiqui</b> <i>Neurosurgical Stroke Service, Kaleida Health, USA</i>	
10:10 – 10:20	Do you need help? Train more neurointerventionists <b>Shelley Renowden</b> <i>North Bristol NHS Trust, Southmead Hospital, UK Neuroradiology, Bristol, United Kingdom</i>	
10:20 – 10:25	Panel discussion	
10:25 – 10:55	Coffee break	
<b>10:55 – 12:15</b>	<b>Plenary Session 4. Non-embolic stroke</b>	Plenary Room/Tuesday
	Chairperson: <b>Martin Bendzus</b> <i>Heidelberg University Hospital, Germany</i>	
	Moderators: <b>Dae Chul Suh</b> <i>Asian Medical Center, Republic of Korea</i> <b>Cuong Tran Chi</b> <i>University of Medicine and Pharmacy, Ho Chi Minh, Vietnam</i>	
10:55 – 11:35	Revisiting intracranial stenting	
10:55 – 11:10	Intracranial stenting in EU <b>René Chapot</b> <i>Alfried Krupp Hospital in Essen-Ruettenscheid, Department of Radiology and Neuroradiology, Germany</i>	
11:10 – 11:25	Intracranial stenting in Asia <b>Jiao Liqun, China</b>	
11:25 – 11:35	Panel discussion	
11:35 – 12:15	Sinus disease	
11:35 – 11:50	Sinus thrombosis: the role of endovascular treatment <b>Jan Gralla</b> <i>Inselspital, University Hospital, Berne, University Institute of Diagnostic and Interventional Neuroradiology, Bern, Switzerland</i>	
11:50 – 12:05	INV15 Sinus stenosis: should it be treated endovascularly? <b>Fergus J. Robertson</b> <i>National Hospital for Neurosurgery and Great Ormond Street Hospital for Children, London, United Kingdom</i>	
12:05 – 12:15	Panel discussion	
<b>12:15 – 13:15</b>	<b>Industry symposia</b>	Plenary Room/Tuesday
13:15 – 14:00	Lunch break	



<b>14:00 – 15:40</b>	<b>Parallel abstract session</b> <b>AVM: Development and pathology</b>	Plenary Room/Tuesday
	Moderators: <b>Felipe Albuquerque</b> <i>Barrow Neurological Institute, Neurosurgery, Phoenix, USA</i> <b>Miyachi Shigeru</b> <i>Aichi Medical University, Neuroendovascular Center, Nagakute, Japan</i>	
14:00 – 14:10	109 <b>Developmental considerations in Brain AVM</b> <b>de Miquel Maria A</b> , Mirapeix Rosa, Aixut Sonia, Lüttich Alex, Aja Lucia, Barranco Roger, Chirife Oscar	
14:10 – 14:20	110 <b>Embryological consideration of dural arteriovenous fistulas</b> <b>Tanaka Michihiro</b>	
14:20 – 14:30	111 <b>Angioarchitecture of arteriovenous fistulas at the craniocervical junction: a multicenter cohort study of 54 patients</b> <b>Sugiu Kenji</b> , Hiramatsu Masafumi, Ishiguro Tomoya, Kiyosue Hiro, Kiyosue Hiro, Sato Kenichi, Takai Keisuke, Niimi Yasunari, Matsumaru Yuji	
14:30 – 14:40	112 <b>Microvascular anatomy of spinal dural arteriovenous fistulas: arteriovenous connections and their relationships with the dura mater</b> <b>Takai Keisuke</b> , Komori Takashi, Saito Nobuhito, Taniguchi Makoto	
14:40 – 14:50	113 <b>A Multi-Institutional Analysis of the Untreated Course of Cerebral Dural Arteriovenous Fistulas</b> <b>Albuquerque Felipe</b> , Gross Bradley A, Jankowitz Brian T	
14:50 – 15:00	114 <b>Modified classification of spinal dural arteriovenous fistula new concept of subtype based on the location of shunt point</b> <b>Miyachi Shigeru</b> , Matsuo Naoki, Kawaguchi Reo, Ohnishi Hiroyuki, Hiramatsu Ryo, Takayasu Masakazu	
15:00 – 15:10	115 <b>Demographic and Angioarchitectural features predictive of Brain Arteriovenous Malformations Seizures in Kwazulu-Natal, South Africa</b> <b>Motebejane Mogwale Samson</b> , Harrichandparsad Rohen, Royston Duncan, Kabera Gaetan, Kaminsky Ian, Choi In Sup	
15:10 – 15:20	116 <b>Demographic and Angioarchitectural features predictive of Brain Arteriovenous Malformations hemorrhage in Kwazulu-Natal, South Africa</b> <b>Motebejane Mogwale Samson</b> , Harrichandparsad Rohen, Royston Duncan, Kabera Gaetan, Kaminsky Ian, Choi In Sup	
15:20 – 15:30	117 <b>Venous analysis in posterior Fossa AVM presenting with hemorrhage</b> <b>de Miquel Maria A</b> , Lüttich Alex, Barranco Roger, Aja Lucia, Aixut Sonia, Chirife Oscar, Siddiqui Aslam, Jenkins Sarah, Corbally Conal	
15:30 – 15:40	118 <b>A novel method determining the annual risk for hemorrhage in unruptured brain arteriovenous malformations</b> <b>Söderman Michael</b>	
<b>15:45 – 16:00</b>	<b>Parallel Industry symposia</b>	Plenary Room/Tuesday
16:00 – 16:30	<i>Coffee break</i>	
<b>16:30 – 18:00</b>	<b>Parallel Plenary session 5/A</b> <b>Minimally invasive spine treatment</b>	Plenary Room/Tuesday
	Chairperson: <b>Mario Muto</b> <i>AORN Cardarelli Hospital, Naples, Italy</i>	

Moderators: **Giuseppe Bonaldi**  
*Hospital of Bergamo, Italy*  
**Umair Rashid**  
*Government Lahore General Hospital, Lahore, Pakistan*

- 16:30 – 16:50 Debate: Vertebroplasty versus vertebral augmentation in porotic disease  
16:30 – 16:40 Pro Vertebroplasty  
**Mary Lee Jensen**  
*University of Virginia School of Medicine, USA*
- 16:40 – 16:50 Pro augmentation  
**Mario Muto**  
*AORN Cardarelli Hospital, Naples, Italy*
- 16:50 – 17:00 Panel discussion
- 17:00 – 17:15 Image guided spinal surgery  
**Luigi Manfre**  
*AOE Cannizzaro Hospital, Catania, Italy*
- 17:15 – 17:30 Percutaneous treatment of spine metastasis  
**Allan Brook**  
*Interventional Neuroradiology, Montefiore Medical Center, USA*
- 17:30 – 17:45 Percutaneous pain procedures  
**Kieran Murphy**  
*University Health Network, Canada*
- 17:45 – 18:00 Panel discussion

**18:00 – 19:00** **WFITN General Assembly** Plenary Room/Tuesday

## Session Room 1, level 2 Tuesday

**07:15 – 08:00** **Back to the basics: Non-atherosclerotic cerebral vascular disease: adults and children** Session room 1/Tuesday

Chairperson: **Péter Várallyay**  
*National Institute of Neurosciences, Hungary*

INV16

Vasculitis: pathology and imaging

**David Mikulis**

*The University of Toronto, Neuroradiology, Oakville, Canada*

Childhood stroke

**Gabrielle DeVeber**

*Division of Neurology, Hospital for Sick Children, Toronto, Canada*

**14:00 – 15:45** **Parallel abstract session** Session room 1/Tuesday  
**AVM: Embolization techniques**

Moderators: **Tran Chi Cuong**

*University of Medicine and Pharmacy, Ho Chi Minh, Vietnam*

**Gyula Gál**

*Odense University Hospital, Dept. of Radiology, Odense, Denmark*

14:00 – 14:10

119

**Cortical venous reflux in arteriovenous malformations**

**Roosendaal Stefan D., van den Berg René**

14:10 – 14:20	120 <b>Curative and adjunctive AVM Onyx embolization of AVMs through the choroidal arteries</b> Lv Xianli, Hu Xiulan, Li Wei, He Hongwei, Jiang Chuhan, Li Youxiang	
14:20 – 14:30	121 <b>Contribution of preradiosurgical embolization for AVM may depend on its quality -Japanese registry of Radiosurgery following Embolization for AVM</b> Miyachi Shigeru, Hiramatsu Ryo, Matsubara Noriaki, Ohnishi Hiroyuki, Izumi Takashi, J-REAL study investigators	
14:30 – 14:40	122 <b>Squid Brain Arteriovenous Embolization using the Eclipse Balloon: About 15 patients</b> Petra Fernando, Larribau Miguel, Stefan Valentin, Stefan Guillermo, Chavez Victor, Aguado Andres	
14:40 – 14:50	123 <b>Cerebral AVM: Preliminary Experience with Phil Embolic Material in a Single Center</b> Pabon Boris, Diaz Carlos, Vargas Oscar, Torres Victor	
14:50 – 15:00	124 <b>Preliminary in-vivo experience with the new PHIL LV 25% (Precipitating Hydrophobic Injectable Liquid – Low Viscosity) in a swine model</b> Samaniego Edgar, Burke Thomas H., Sutter Allison, Mehta Ami	
15:00 – 15:10	125 <b>The safety and efficacy of two BAVM embolization methods: with Glubran or Onyx</b> He Xuying	
15:10 – 15:20	126 <b>Endovascular AVM embolization using double lumen DMSO-compatible balloon-catheter</b> Petrov Andrey, Radgabov Said, Ivanov Alexey	
15:20 – 15:30	127 <b>Endovascular Treatment of Brain AVMs with the SQUID®</b> Gál Gyula	
15:30 – 15:40	128 <b>Double catheters technique for disconnecting very high flow intracranial arterial venous fistulas</b> Tran Chi Cuong	
<b>15:45 – 16:00</b>	<b>Parallel Industry symposia</b>	Session room 1/Tuesday
16:00 – 16:30	<i>Coffee break</i>	
<b>16:30 – 18:00</b>	<b>Parallel Plenary session 5/B</b> <b>Pediatric neurointerventions – Acute Stroke in Children</b>	Session room 1/Tuesday
	Chairperson: <b>Darren Orbach</b> <i>Boston Children's Hospital / Harvard Medical School, Neurointerventional Radiology, Boston, USA</i>	
	Moderators: <b>Georges Rodesch</b> <i>Hopital Foch, France</i> <b>László Bognár</b> <i>Neurosurgery Clinic, Debrecen, Hungary</i>	
16:30 – 16:35	INV17 Acute Stroke in Children - Framing the Problem <b>Darren B. Orbach</b> <i>Boston Children's Hospital / Harvard Medical School, Neurointerventional Radiology, Boston, USA</i>	
16:35 – 17:05	Large Vessel Occlusion in Children: Natural History and Neurological Overview, Risk vs Benefit <b>Gabrielle DeVeber</b> <i>Hospital for Sick Children Division of Neurology, Toronto, Canada</i>	
17:05 – 17:25	Imaging Protocols and Age Considerations for Acute Stroke in Children <b>Todd Abruzzo</b>	

- 17:25 – 17:45      Technique, Technical Approaches, and Judgement in Acute Stroke in Children  
**Timo Krings**  
*University of Toronto, Neuroradiology, Toronto, Canada*
- 17:45 – 18:00      Panel discussion and questions

## Session Room 2, level 4 Tuesday

- 07:15 – 08:00**      **Back to the basics**      Session room 2/Tuesday  
**Thrombectomy: how to choose patients and techniques**  
Chairperson: **Péter Barsi**  
*Semmelweis University, Hungary*
- INV18  
Patient selection by advanced imaging  
**Karl-Olof Lovblad**  
*Geneva University Hospitals, Diagnostic and Interventional Neuroradiology, Geneva, Switzerland*
- Device selection  
**Paolo Machi**  
*University Hospital Montpellier, Montpellier, France*
- 13:15 – 13:45**      **Poster session**      Session room 2/Tuesday
- Moderators: **Wickly Lee**  
*National Neuroscience Institute of Singapore, Department of Neuroradiology,  
Singapore*
- PP309  
**Patient Radiation Dose from Neuroangiography: Effect of Serial Application of Dose Reduction Protocols**  
**Kim Bum-Soo, Im Sang Hyuk, Choi Jae Ho, Shin Yong Sam**
- PP310  
**Long-term Results of Angioplasty using Stent-retrievers for Cerebral Vasospasm in SAH**  
**Kwon HJ, Koh HS**
- PP311  
**Safety of nonprotected carotid artery stenting - a single centre experience**  
**Gardijan Danilo, Ozretić David, Starčević Katarina, Malojčić Branko, Poljaković Zdravka, Radoš Marko**
- PP312  
**Anterior choroidal artery: anatomical-angiographic analysis**  
Pereira Mariano, **Navarro Fernando**, Villasante Francisco, Moya Hernan, Saguier Fernando, Dorman Matias, Acuña Marcelo, Ceciliano Alejandro
- PP313  
**Pure N-butyl-cyanoacrylate Treatment for Pediatric Intracranial Nongalenic Pial Arteriovenous Fistulas**  
**Lueangapong Peerapong, Kobkitsuksakul Chai, Chanthanaphak Ekachat, Jiarakongmun Pakorn, Pongpech Sirintara**
- PP314  
**Intra-arterial chemotherapy for retinoblastoma: Initial experiences in Hungary**  
**Maka Erika, Csóka Mónika, Szikora István**
- PP315  
**Dural sinus malformation in newborns: A report of an extremely rare congenital cerebrovascular malformation with favorable endovascular treatment outcome**  
**Chanvanitkulchai Kannachod, Churojana Anchalee, Songsaeng Dittapong, Aurboonyawat Thaweesak, Chankaew Ekawut, Withayasuk Pattarawit, Sangpetngam Boonrer, Bakin Salinawati**

13:45 – 14:00 *Lunch break*

14:00 – 15:40 **Parallel abstract sessions** Session room 2 /Tuesday

**AVM: arterial and venous embolization**

Moderators: **James Byrne**  
*University of Oxford, UK*  
**Georghe Rodesh**  
*Hopital Foch, France*

- 14:00 – 14:10 129  
**Comparison of Predictive Grading Systems for Procedural Risk in Endovascular Treatment of Brain Arteriovenous Malformations – Analysis of 104 Consecutive Patients**  
Pulli Benjamin, Stapleton Christopher J, Koch Matthew J, Patel Aman B.
- 14:10 – 14:20 130  
**Transvenous embolization of cavernous dural arteriovenous fistula via alternative routes instead of the inferior petrosal sinus**  
**Toma Naoki**
- 14:20 – 14:30 131  
**Advantages and limits of transvenous embolization of brain arteriovenous malformations**  
**Limbucci Nicola**, Nappini Sergio, Rosi Andrea, Leone Giuseppe, Renieri Leonardo, Consoli Arturo, Cirelli Carlo, Laiso Antonio, Mangiafico Salvatore
- 14:30 – 14:40 132  
**The combination of transarterial and transvenous approach in endovascular treatment of cerebral AVM**  
**Kiselev Vitaly S**, Sosnov Alexey O, Perfilev Artem M, Gafurov Rustam R
- 14:40 – 14:50 133  
**Outcomes Associated with Treatment of Unruptured Cerebral Arteriovenous Malformations**  
**Tejada Juan G**, Riley Kalen
- 14:50 – 15:00 134  
**A comparison of clinical outcomes between interventional management and observation in a 7-year review of unruptured brain arteriovenous malformations**  
**Churojana Anchalee**, Aurboonyawat Thaweesak, Chatpuwaphat Jitti, Chankaew Ekawut, Withayasuk Pattarawit, Sangpetngam Boonrerak, Songsaeng Dittapong
- 15:00 – 15:10 135  
**Perimedullary arteriovenous fistulas: Clinical presentation and imaging findings in regard to flow pattern in 33 patients**  
**El Mekabaty Amgad**, Gailloud Philippe
- 15:10 – 15:20 136  
**Locating the target for embolization of hemorrhagic spinal arteriovenous malformations using 3D-DSA and MRI fusion**  
**Srivatanakul Kittipong**
- 15:20 – 15:30 137  
**Combined endovascular and surgical treatment of spinal dural arteriovenous fistulas**  
**Ozretic David**, Vukic Miroslav, Marasanov Sergej, Gardijan Danilo, Djuric Kresimir S, Rados Marko
- 15:30 – 15:40 138  
**The analysis of the anatomic route of hypoglossal nerve within the hypoglossal canal using multidetector CT in case with anterior condylar confluence dural arteriovenous fistula**  
**Mizutani Katsuhiko**, Oishi Yumiko, Akiyama Takenori, Yoshida Kazunari
- 16:00 – 16:30 *Coffee break*

## Session Room 3, level 4

Tuesday

14:00 – 15:20	Parallel abstract session: DAVF	Session room 3/Tuesday
	Moderators: <b>Higashi Toshio</b> <i>Fukuoka University Hospital, Neurosurgery, Fukuoka, Japan</i> <b>Christoph Cognard</b> <i>Centre Hospitalier Universitaire (CHU) de Toulouse, France</i>	
14:00 – 14:10	139 <b>Everything its Possible in a Single Session: Improving Endovascular Treatment of Complex Intracranial Dural Arteriovenous Fistulas (dAVF's) Using a Dual Lumen Balloon Augmentation Technique</b> Pabon Boris, Vargas Oscar, Diaz Carlos, Torres Victor, Correa Ramiro	
14:10 – 14:20	140 <b>Intracranial Dural AVF: A Single Centre Experience</b> Gaikwad Shailesh B, Somorendra Singh, Anshul Jain, Joseph Leve, Parthiban Bala, Nishchint Jain	
14:20 – 14:30	141 <b>Treatment of Cavernous Sinus Dural Arteriovenous Fistula by Transvenous Onyx with Coil Embolization; A Case Series</b> Moo-Seok Park, <b>Hyun Goo Lee</b> , Taek Min Nam, Young Woon Lee, Je Young Yeon, Keon Ha Kim, Pyoung Jeon	
14:30 – 14:40	142 <b>Endovascular Treatment of Intracranial Dural Arteriovenous Fistulas Involving Large Sinuses under Intrasinus Balloon Protection</b> Li Qiang, Li Jianan, Xu Yi, Liu Jianmin	
14:40 – 14:50	143 <b>Embolization of dural arteriovenous fistula with ultra-low concentration NBCA</b> Higashi Toshio, Wakuta Naoki, Fukumoto Hironori, Iwaasa Mitsutoshi, Inoue Tooru	
14:50 – 15:00	144 <b>Direct percutaneous sclerotherapy for venous malformations of the face</b> Haas Leandro Jose, Della Giustina Evelyn, Moura Borille Thais, Piquet Sarmiento Marina, Tozzi Marques Natalia, Ahmad Omar Omar, Scramocin Thaize Regina, Sartori Felipe, Saori Tulida Leticia, Camilo Liz Caroline, Perez Gabriel, Bernardes Celso	
15:00 – 15:10	145 <b>The usefulness of 3D venography in the treatment of dural arteriovenous fistulae</b> Aoki Rie, Srivatanakul Kittipong	
15:10 – 15:20	146 <b>Dural arteriovenous fistulas of the anterior and posterior condylar vein: anatomy and treatment</b> Hellstern Victoria, Aguilar-Perez Marta, AlMatter Mohammad, Bhogal Paul, Serna-Wandel Carmen, Henkes Hans	
16:00 – 16:30	<i>Coffee break</i>	

## Session Room 4, level 5

Tuesday

14:00 – 15:40	Parallel abstract sessions: Aneurysm research	Session room 4/Tuesday
	Moderators: <b>Gábor Janiga</b> <i>University of Magdeburg, Laboratory of Fluid Dynamics and Technical Flows, Magdeburg, Germany</i> <b>Christian Valen-Sendstad</b> <i>Simula Research Laboratory, Fornebu, Norway</i>	

- 14:00 – 14:10 147  
**Hemodynamic Changes Caused by Multiple Stenting in Vertebral Artery Fusiform Aneurysms: A Patient-specific Computational Fluid Dynamics Study**  
Lyu Nan, Fang Yibin, Larrabide Ignacio, Liu Jianmin, Huang Qinghai
- 14:10 – 14:20 148  
**Emerging secondary flow patterns at the initiation site of sidewall aneurysms**  
Csippa Benjamin, Paál György, Závodszy Gábor, Vadász Ágnes, Szikora István
- 14:20 – 14:30 149  
**Impact of vessel geometry on flow diverter mesh density in curved arteries**  
Pogácsás Bettina, Nagy Péter, Bognár Eszter, Kovács Róbert, Vadász Ágnes, Czencz Máté, Kondor Máté, Szikora István
- 14:30 – 14:40 150  
**Hydraulic resistance of FD stents under varying conditions**  
Paál György, Csippa Benjamin, Závodszy Gábor, Szikora István
- 14:40 – 14:50 151  
**Comparing the flow diverting effects between double LVIS and single PIPELINE using CFD simulation**  
Shojima Masaaki, Hoshi Takeharu, Yagi Takanobu
- 14:50 – 15:00 152  
**Particle residence time for prediction of intracranial aneurysm rupture risk**  
Leemans Eva, Cornelissen Bart M.W., Rosalini Giorgia, Majoie Charles B.L.M., van Bavel Ed T., Marquering Henk A,
- 15:00 – 15:10 153  
**Fast patient-specific flow diverter deployment simulation**  
Závodszy Gábor, Szikora István, Vadász Ágnes, György Paál
- 15:10 – 15:20 154  
**Location specific inflow profiles for intracranial aneurysms**  
Cornelissen Bart M W., Sprengers Marieke E, Schneiders Joppe J, van Ooij Pim, Slump Cornelis H, Marquering Henk A, Majoie Charles B L M
- 15:20 – 15:30 155  
**Newtonian viscosity model for CFD studies in cerebral aneurysms**  
Aziz Waseem H, Al Argha Hashem M., Hamdan Mohammed O., El Shawarby Amr A.
- 15:30 – 15:40 156  
**Hemodynamic effect of parent artery occlusion for giant intracranial aneurysm on surrounding arteries and aneurysm based on magnetic resonance fluid dynamics and computational fluid dynamics**  
Kropp Asuka Elisabeth, Izumi Takashi, Nishihori Masahiro, Tamari Yosuke, Tsukada Tetsuya, Ishida Mamoru, Isoda Haruo

# Wednesday, 18<sup>th</sup> of October: AVM and miscellaneous

## Plenary Room, level 2

07:15 – 08:00	<b>Breakfast seminar</b> <b>Back to the basics: AVM: evolution and elimination</b> Chairperson: <b>Karel TerBrugge</b> <i>Neuroradiology, University of Toronto, Canada</i>  Evolution of AVM <b>Hong Qi Zhang</b> <i>Hong Kong Baptist University, China</i>  Principles of AVM surgery <b>Robert Reisch</b> <i>Hirslanden Private Hospital Group, Switzerland</i>	Plenary Room/Wednesday
08:00 – 08:35	<b>Plenary Session 6.</b> <b>AVM research</b> Chairperson: <b>Luis Lemme Phlagos</b> <i>Consultorio Endovascular CENBA, Buenos Aires, Argentina</i> Moderators: <b>Timo Krings</b> <i>University of Toronto, Neuroradiology, Toronto, Canada</i> <b>Michihiro Tanaka</b> <i>Kameda Medical Center, Kamogawa City Japan</i> Panelists: <b>Insup Choi</b> <i>Interventional Neuroradiology, Lahey Hospital Medical Center, Boston, USA</i> <b>Sirintara Pongpech</b> <i>Ramathibodi Mahidol University, Bangkok, Thailand</i>	Plenary Room/Wednesday
08:00 – 08:15	INV19 Latest results in AVM pathogenesis research, Brain AVM: animal models, pathogenesis and new therapeutic options <b>Hua Su</b> <i>University of California, San Francisco, Department of Anesthesia and Perioperative Care, San Francisco, USA</i>	
08:15 – 08:30	INV20 Latest results in DAVF pathogenesis research <b>Pervinder Bhogal</b> <i>Klinikum Stuttgart, Stuttgart, Germany</i>	
08:30 – 08:35	Panel discussion	
08:35 – 10:15	<b>Plenary session 7.</b> <b>AVM embolization: what is the aim?</b> Chairperson: <b>Laurent Spelle</b> <i>Bicêtre University Hospital-Paris Sud University France</i> Moderators: <b>Ronie Piske</b> <i>Beneficencia Portuguesa Hospital of Sao Paul, Brasil</i> <b>Peter Rivera</b> <i>Department of Neurosciences, College of Medicine and Philippine General Hospital, University of the Philippines Manila, Philippines</i> Panelists: <b>Jaques Moret</b> <i>Bicetre University Hospital, France</i> <b>Alejandro Berenstein</b> <i>Mount Sinai Hospital, USA</i> <b>Saruhan Cekirge</b> <i>Radiology Department of Hacettepe University, Turkey</i> <b>Karel TerBrugge</b> <i>Neuroradiology, University of Toronto, Canada</i>	Plenary Room/Wednesday
08:35 – 08:40	How would you do this case? Demonstrative case presentation & audience poll	



08:40 – 08:55	<p>INV21 Embolization should aim complete occlusion by using transarterial-transvenous approach <b>István Hudák</b> <i>University of Pécs, Department of Neurosurgery, Pécs, Hungary</i></p>	
08:55 – 09:10	<p>INV22 Embolization should aim complete occlusion by using transarterial approach <b>Naci Kocer</b> <i>Neuroradiology, Istanbul, Turkey</i></p>	
09:10 – 09:25	<p>INV23 Embolization should be used as a complementary method to surgery <b>Edoardo Boccardi</b> <i>Niguarda Hospital, Milano, Italy</i></p>	
09:25 – 09:40	<p>Most AVM-s should be treated by microsurgery <b>Peter Vajkoczy</b> <i>Department of Neurosurgery, Charite Universitätsmedizin Berlin, Germany</i></p>	
09:40 – 09:55	<p>INV24 Non-Surgical AVM's should be treated by radiosurgery without embolisation <b>Matthias Radatz</b> <i>Royal Hallamshire Hospital, Neurosurgery/Radiosurgery, Sheffield, United Kingdom</i></p>	
09:55 – 10:05	<p>The European AVM treatment consensus proposal <b>Marco Cenzato</b> <i>Ospedale Niguarda, Milan, Italy</i></p>	
10:05 – 10:15	Panel discussion & Audience polling	
10:15 – 10:45	Coffee break	
<b>10:45 – 11:15</b>	<p><b>Plenary session 8.</b> <b>The Pierre Lasjaunias Memorial Lecture</b> Chairperson: <b>Sirintara Pongpech</b> <i>Ramathibodi Mahidol University, Bangkok, Thailand</i> Moderators: <b>Luc Picard</b> <i>Centre Hospitalier Universitaire de Nancy, Laxou, France</i> <b>Michael Söderman</b> <i>Department of Neuroradiology, Karolinska University Hospital – Solna, Stockholm, Sweden</i></p> <p>Low magnetic field MRI imaging of cerebral vascular disease <b>Gary Green</b> <i>The University of York, United Kingdom</i></p>	Plenary Room/Wednesday
<b>11:15 – 12:15</b>	<p><b>Plenary session 9.</b> <b>The human factor in the angiosuite: mental health and industry-physician interactions</b> Chairperson: <b>Michael Söderman</b> <i>Department of Neuroradiology, Karolinska University Hospital – Solna, Stockholm, Sweden</i> Moderators: <b>Michel Mawad</b> <i>Lebanese American University School of Medicine, Byblos, Lebanon</i> <b>James Byrne</b> <i>University of Oxford, UK</i></p>	Plenary Room/Wednesday
11:15 – 11:35	<p>Mental health in the angiography suit <b>György Purebl</b> <i>Semmelweis University, Budapest, Hungary</i></p>	
11:35 – 12:05	<p>Partners or customers: physician – industry interaction 11:35 - 11:50 Industry: INV25 <b>Matt Fitz</b> <i>Microvention, USA</i></p>	

11:50 - 12:05 Medicine: **Patrick Brouwer**  
*Karolinska University Hospital, Sweden*

12:05 – 12:15 Panel discussion

<b>12:15 – 13:15</b>	<b>Industry symposia</b>	Plenary Room/Wednesday
13:15 – 14:15	Lunch break	
<b>14:15 – 16:15</b>	<b>Parallel abstract session - Aneurysm research</b>	Plenary Room/Wednesday
	Moderators: <b>Laurent Spelle</b> <i>Bicêtre University Hospital-Paris Sud University France</i> <b>Hans Henkes</b> <i>Klinikum Stuttgart, Neuroradiology, Stuttgart, Germany</i>	
14:15 – 14:25	157 <b>Stromal cell-derived factor 1<math>\alpha</math> facilitates aneurysm remodeling in elastase-induced rabbit saccular aneurysm</b> <b>Li Zifu</b>	
14:25 – 14:35	158 <b>Recombinant human SDF-1<math>\alpha</math> administration accelerates aneurysm neck reendothelialization in rabbit saccular aneurysm after flow diverter treatment</b> <b>Li Zifu</b>	
14:35 – 14:45	159 <b>Development of Statin eluting coils to enhance neck endothelialization and thrombus organization in the aneurysm cavity</b> <b>Kodama Tomonobu, Toda Mitsuaki, Arima Yusuke, Hitoshi Ozasa, Ogawa Atsushi, Murayama Yuichi</b>	
14:45 – 14:55	160 <b>Development and evaluation of a statin-carrying embolization coils</b> <b>Toda Mitsuaki, Ozasa Hitoshi, Ogawa Atsushi, Arima Yusuke, Kodama Tomonobu, Iwata Hiroo</b>	
14:55 – 15:05	161 <b>Autologous Adipose-Derived Mesenchymal Stem Cells Improve Healing Of Coiled Experimental Saccular Aneurysms: An Angiographic and Histopathological Study</b> <b>Rouchaud Aymeric, Brinjikji Waleed, Ding Yong Hong, Dai Daying, Spelle Laurent, Kallmes David, Kadirvel Ram</b>	
15:05 – 15:15	162 <b>Vessel Wall MRI in Intracranial Aneurysms with High Rupture Risk Based on PHASES Score</b> <b>Lyu Nan, Chen Shiyue, Wang Xinrui, Liu Jianmin, Huang Qinghai</b>	
15:15 – 15:25	163 <b>Vessel Wall MR (VW-MR) Evaluation of the Aneurysm Wall Enhancement in Unruptured, Untreated Intracranial Brain Aneurysms</b> <b>Echeverria Martinez Mario Daniel, Rivera M. Rodrigo, Caro Joseline, Bravo Fabian, Castro Mario</b>	
15:25 – 15:35	164 <b>New hydrophilic stent coating inhibits platelet adhesion in vitro and in vivo</b> <b>Henkes Hans, Martinez Moreno Rosa, Bannewitz Catrin, Henkes Elina, Lylyk Pedro, Hannes Ralf, Lenz-Habijan Tim</b>	
15:35 – 15:45	165 <b>STAT: Stenting in the Treatment of Aneurysm Trial</b> <b>Nico Lorena, Kotowski Marc, Iancu Dana, Weill Alain, Roy Daniel, Raymond Jean</b>	
15:45 – 15:55	166 <b>The low profile LVIS Jr Stent in treatment with coling of intracranial aneurysms. Initial 21 devices and follow up in a Brazilian single center experience</b> <b>Cabral de Andrade Guilherme, Lesczynski Alexandre, Alves Helvercio F Polsaque, Climaco Valter, Pereira Eduardo</b>	

15:55 – 16:05	167 <b>The influence of stent stiffness on vascular morphology and accompanying hemodynamic changes in intracranial sidewall aneurysms</b> <b>Cornelissen Bart M W<sup>r</sup></b> , Marquering Henk A, Slump Cornelis H, van den Berg René, Majoie Charles B L M
16:05 – 16:15	168 <b>Endovascular management of intracavernous ICA aneurysms: Giant Problem – Smart Solution</b> <b>Gaikwad Shailesh B</b> , Parthiban Bala, Somorendra Singh, Joseph Leve, Nishchint Jain
16:15 – 16:45	<i>Coffee break</i>
<b>16:45 – 17:05</b>	<b>Plenary Session 10.</b> <b>Best papers session</b> Chairperson: <b>Michael Söderman</b> <i>Department of Neuroradiology, Karolinska University Hospital – Solna, Stockholm, Sweden</i> Moderators: <b>Luis Lemme-Phlagos</b> <i>Centro Endovascular Neurologico Buenos Aires, Argentina</i> <b>Allan Taylor</b> <i>University of Cape Town, Neurosurgery, Cape Town, South Africa</i>
16:45 – 16:55	AWARD1 Collateral status set the onset-to-recanalization time window for good outcome <b>Byung Moon Kim</b> <i>Severance Hospital, Yonsei University College of Medicine, Interventional Neuroradiology, Seoul, South Korea</i>
16:55 – 17:05	AWARD2 Flow Re-direction Endoluminal Device (FRED) for the treatment of cerebral aneurysms: results and outcomes in 2 centres <b>Neeraj R. Mahboobani</b> , Wing Ho Chong, Boris KH Tse, Samuel SK Lam, Tony KT Chan, Lik Fai Cheng, Johnny KF Ma, Jimmy CW Siu, Chong Boon Tan, Yiu Chung Wong <i>Princess Margaret Hospital, Radiology, Kowloon, Hong Kong; Tuen Mun Hospital, Radiology, Hong Kong; Tuen Mun Hospital, Neurosurgery, Hong Kong; Princess Margaret Hospital, Neurosurgery, Hong Kong</i>
<b>17:05 – 17:45</b>	<b>Plenary session 11.</b> <b>Expanding the horizon: neurointerventional oncology</b> Chairperson: <b>Alessandra Biondi</b> <i>Department of Neuroradiology and Endovascular Therapy Besancon University Hospital, France</i> Moderators: <b>Pascal Mosimann</b> <i>Bern University Hospital / Inselspital, Switzerland</i> <b>Allan Taylor</b> <i>University of Cape Town, Neurosurgery, Cape Town, South Africa</i>
17:05 – 17:20	Retinoblastoma chemotherapy <b>Pierre Gobin</b> <i>Weill Cornell Medicine, New York, USA</i>
17:20 – 17:35	INV26 Intra-arterial chemotherapy for brain tumors: is there an indication? <b>Csanád Várallyay</b> , Prakash Ambady, Edward A. Neuwelt <i>Oregon Health and Science University, Dept. of Radiology, Portland, USA; Oregon Health and Science University, Dept. of Neurology, Portland, USA</i>
17:35 – 17:45	Discussion
<b>17:45 – 18:45</b>	<b>Parallel abstract sessions - Aneurysm research</b> Moderators: <b>Miklós Marosfői</b> <i>University of Massachusetts Medical School, Department of Radiology, Worcester MA, USA</i> <b>Miyachi Shigeru</b> <i>Aichi Medical University, Neuroendovascular Center, Nagakute, Japan</i>

17:45 – 17:55	169 <b>Minor communicating malapposition has a major impact on aneurysm occlusion after flow diverter implant</b> Marosfői Miklós, King Robert M, Brooks Olivia W, Langan Erin T, Clarencon Frederic, Tamura Takamisu, Wainwright John M, Gounis Matthew J, Puri AS
17:55 – 18:05	170 <b>The Flow Redirection Endoluminal Device (FRED) in treatment of intracranial aneurysms. Initial 28 devices and follow up in a single center Brazilian experience</b> Cabral de Andrade Guilherme, Lesczynski Alexandre, Alves Helvercio F Polsaque, Climaco Valter, Pereira Eduardo
18:05 – 18:15	171 <b>Innovations in Endovascular Treatment Strategies for Large Carotid Cavernous Aneurysms — The Safety and Efficacy of a Flow Diverter</b> Miyachi Shigeru, Hiramatsu Ryo, Ohnishi Hiroyuki, Matsubara Noriaki, Izumi Takashi, Takayasu Masakazu
18:15 – 18:25	172 <b>Wall apposition is more important than mesh density in flow diverters</b> Aquarius Rene, Smits Debby, Gounis Matthew, de Korte Antonius M, Verrijp Kiek, Driessen Léon, Leenders William, de Vries Joost
18:25 – 18:35	173 <b>Retreatment of residual aneurysms after flow-diversion: An experimental study</b> Fahed Robert, Darsaut Tim E., Kotowski Marc, Salazkin Igor, Raymond Jean
18:35 - 18:45	174 <b>AMD3100 accelerates reendothelialization of neointima formation in rabbit saccular aneurysm after flow diverter treatment</b> Li Zifu

## Session Room 1, level Wednesday

<b>07:15 – 08:00</b>	<b>Back to the basics: DAVF: Evolution and occlusion</b> Session room 1/Wednesday Chairperson: <b>Zsolt Berentei</b> <i>National Institute of Clinical Neurosciences, Budapest, Hungary</i>	
	Evolution of DAVF <b>Insup Choi</b> <i>Interventional Neuroradiology, Lahey Hospital Medical Center, Boston, Massachusetts, USA</i>	
	Endovascular treatment of DAVF <b>René Chapot</b> <i>Alfried Krupp Hospital in Essen-Ruettenscheid, Department of Radiology and Neuroradiology, Germany</i>	
<b>14:15 – 16:15</b>	<b>Parallel abstract sessions</b> <b>Aneurysm clinical, Imaging, Outcomes, Miscellaneous</b>	Session room 1/Wednesday
	Moderators: <b>Aguilar-Perez Marta</b> <i>Hospital of Stuttgart, Neuroradiology, Stuttgart, Germany</i> <b>Markus Möhlenbruch</b> <i>Department of Neuroradiology, Heidelberg University Hospital, Germany</i>	
14:15 – 14:25	175 <b>Review of size, morphology and location of ruptured cerebral aneurysms from a single center</b> AlMatter Muhammad, Aguilar Pérez Marta, Bhogal Pervinder, Hellstern Victoria, Serna Candel Carmen, Ganslandt Oliver, Bätzner Hansjörg, Henkes Hans	
14:25 – 14:35	176 <b>Can blister-like aneurysm disappear? Spontaneous occlusion of a side wall basilar aneurysm. Case report and review of the literature</b> Cavasin Nicola, Cagliari Enrico, Brollo Marco, Magrini Salima	

14:35 – 14:45	177 <b>Treatment of ruptured blister and blister-like aneurysms with flow-diverters: a dual centre experience</b> Gaudino Chiara, Kabbasch Christoph, Mpotsaris Anastasios, Bendszus Martin, Möhlenbruch Markus
14:45 – 14:55	178 <b>Short-segment Internal Trapping for A Symptomatic Thrombosed Large Fusiform Vertebra Artery Aneurysm: Vermicelle technique</b> Nishihori Masahiro, Izumi Takashi, Tamari Yosuke, Ishida Mamoru, Tsukada Tetsuya, Kropp Asuka Elisabeth, Wakabayashi Toshihiko
14:55 – 15:05	179 <b>Clinical and Angiographic Follow-Up Results of Endovascular Coiling using Triple Microcatheters for patients with relatively Wide-necked Aneurysm in Parent Artery Less than 1.5mm in diameter</b> Jang E Wook, Kim Hyung-In, Lee JaeSeong, Lee Byung-Hee
15:05 – 15:15	180 <b>Features and results of endovascular treatment of ophthalmic segment aneurysms</b> Kiselev Vitaly S, Sosnov Alexey O, Gafurov Rustam R, Perfilev Artem M
15:15 – 15:25	181 <b>Low dose 3D rotational angiography for intracranial aneurysm: analysis of image quality and patient radiation dose</b> Im Sanghyuk, Kim Bum-Soo, Shin Yongsam, Cho Jai Ho
15:25 – 15:35	182 <b>Correlation of Vessle Wall MR Features of Intracranial Verterbral Artery Dissection to Intravascular Ultrasound Findings</b> Kim Hyung-In, Lee Byung-Hee, Lee Jae Seong, Jang E Wook, Kim Tae-Eun
15:35 – 15:45	183 <b>Post-embolization Dual Energy CT (DECT) of brain: frequently noted contrast enhancing areas after endovascular treatment of unruptured intracranial aneurysm</b> Roh Jieun, Kang Jongsoo, Shim Dong-Hyun, Yeom Jeong A, Kim Young Soo, Baek Jin Wook, Baik Seung Kug
15:45 – 15:55	184 <b>Subtraction CTA as a non-invasive alternative to angiography for the follow-up of Surpass flow diverter treated intracranial aneurysms</b> Duarte Conde Mariana P., de Korte Antonius Mattheus, Meijer Frederick J.A., Aquarius René, Boogaarts Hieronymus D., de Vries Joost
15:55 – 16:05	185 <b>MRA for follow up of aneurysms after treatment with flow diverter stents</b> Agid Ronit, Renieri Leonardo, Geraldo Ana Filipa, Krings Timo, Pereira M Vitor
16:05 – 16:15	186 <b>Mechanical recanalization using Solitaire AB device for severe thromboembolic events in endovascular treatment of intracranial aneurysms</b> Li Tianxiao, Shao Qiuji, Li li
16:15 – 16:45	<i>Coffee break</i>
17:45 – 18:45	<b>Parallel abstract sessions</b> <b>Aneurysm clinical, Imaging, Outcomes, Miscellaneous</b> Moderators: <b>Akira Ishii</b> <i>Kyoto University, Japan</i> <b>Lautaro Badilla</b> <i>Clinica Santa Maria, Chile</i>
17:45 – 17:55	187 <b>Angiographic and clinical long-term follow-up in patients with acutely ruptured aneurysm undergoing web treatment</b> Gutte Henrik, Holtmannspötter Markus, Stavngaard Trine, Cortsen Marie, Benndorf Goetz

Session room 1/Wednesday

- 17:55 – 18:05 188  
**Development and Validation of the Procedure-Related Neurologic Complications Risk Score for Elderly Patients with Ruptured Intracranial Aneurysm Undergoing Endovascular Treatment**  
**Duan Guo Li**, Wen Wan Li, Zuo Qiao, Yang Pengfei, Zhang Lei, Hong Bo, Xu Yi, Liu Jianmin, Huang Qinghai
- 18:05 – 18:15 189  
**Long-term outcomes of coiled unruptured intracranial aneurysms: followed for up to 20 years**  
**Koyanagi Masaomi**, Ishii Akira, Imamura Hirotohi, Satow Tetsu, Yoshida Kazumichi, Hasegawa Hitoshi, Kikuchi Takayuki, Takenobu Youhei, Ando Mitsushige, Takahashi Jun C, Nakahara Ichiro, Sakai Nobuyuki, Miyamoto Susumu
- 18:15 – 18:25 190  
**Clinical outcome of Ruptured Aneurysm Treatment in the US: National Inpatient Sample Data (NIS) analysis**  
**Lee Seon-Kyu**, Yuan Cindy, Karrison Theodore
- 18:25 – 18:35 191  
**Preliminary Results from the ISAT-2 Trial**  
**Darsaut Tim E.**, Roy Daniel, Weill Alain, Bojanowski Michel, Chaalala Chiraz, Chow Michael M, O'Kelly Cian, Arikan Fuat, Nolet Suzanne, Gevry Guylaine, Raymond Jean  
*University of Alberta, Neurosurgery, Edmonton, Canada; CHUM Notre Dame, Neuroradiologie, Montreal, Canada; CHUM Notre Dame, Neurochirurgie, Montreal, Canada; Val d'Hebron Hospital, Neurosurgery, Barcelona, Spain; NRI - CHUM Notre Dame, Neuroradiologie, Montreal, Canada*
- 18:35 – 18:45 192  
**Comparison of procedure-related complications between stent-assisted coil placement and coiling without stent for the treatment of acutely ruptured intracranial aneurysms**  
**Zuo Qiao**, Yang Pengfei, Zhao Rui, Fang Yibin, Li Qiang, Hong Bo, Xu Yi, Huang Qinghai, Liu Jianmin

## Session Room 2, level 4 Wednesday

- |                      |  |                           |
|----------------------|--|---------------------------|
| <b>07:15 – 08:00</b> | <b>Breakfast Seminar</b><br><b>Back to the basics: The invisible factor: the aneurysm wall</b><br>Chairperson: <b>András Büki</b><br><i>Medical University Pécs, Neurosurgery Department, Pécs, Hungary</i>  | Session room 2 /Wednesday |
|                      | INV27<br>Biology and histology of the intracranial aneurysm wall<br><b>Juhana Frösen</b><br><i>Kuopio University Hospital, Neurosurgery, Kuopio, Finland</i>   |                           |
|                      | Imaging of the aneurysm wall<br><b>Timo Krings</b><br><i>University of Toronto, Neuroradiology, Toronto, Canada</i>  |                           |
| <b>13:15 – 13:45</b> | <b>Poster session</b><br><b>Moderator: Winston Lim</b><br><i>Singapore General Hospital, Singapore</i>   | Session room 2/Wednesday  |
|                      | PP316<br><b>Dural Arteriovenous Fistulas as a Reversible Cause of Dementia: An analysis of Radiographic Features and Treatment Outcome</b><br><b>Boonchai Tiplada</b> , Churojana Anchalee, Aurboonyawat Thaweesak, Chankaew Ekawut, Songsaeng Dittapong, Sangpetngam Boonrerk, Withayasuk Pattarawit, Chanvanitkulchai Kannacahod |                           |
|                      | PP317<br><b>Angiographic and clinical characteristics of thoracolumbar spinal epidural and dural arteriovenous fistulas</b>  |                           |

**Kiyosue Hiro**, Matsumaru Yuji, Niimi Yasunari, Takai Keisuke, Ishiguro Tomoya, Hiramatsu Masafumi, Yoshimura Shinji

PP318

**Factors affecting the reachability of NBCA-lipiodol mixture to the arteriovenous shunt during transarterial embolization: a clinical study in intracranial dural arteriovenous fistulas**

**Kiyosue Hiro**, Tanoue Shuichi, Shimada Ryuichi, Ide Satomi

PP319

**The Effectiveness of Dural Venous Sinus Sacrifice as A Treatment of Aggressive Type Cranial Dural Arteriovenous Fistulas**

Chailerd Ornkamol, Mongkolratnan Atitthep, Sangpetngam Boonrerk, Withayasuk Pattarawit, Chankaew Ekawut, **Aurboonyawat Thaweesak**, Songsaeng Dittapong, Churojana Anchalee

PP320

**The "GROUTING TECHNIQUE" in high-grade Intracranial Dural Arteriovenous Fistulae Embolization**

**Chou Wen-Chin**, Wong Ho Fai

PP321

**Increase of fluoroscopic radiation dose rate during multi-stage Onyx embolization of brain AVMs**

Jiang Yuanyuan, **Sheen Jae Jon**, Lee Deok Hee, Kim Tae Il, Kim YoungEun, Maeng Jun Young

PP322

**Correlation between angioarchitecture and obliteration rate of the brain arteriovenous malformation (BAVM) after hypofractionated stereotactic radiotherapy (HSRT)**

**Chanthanaphak Ekachat**, Hengriprasopchoke Suthinee, Kobkitsuksakul Chai, Jiarakongmun Pakorn, Singhara Na Ayudhaya (Pongpech) Sirintara

PP323

**Determination of the natural history of neck remnants of cerebral aneurysms treated with detachable coils assessed with Magnetic Resonance Angiography**

**Paxton Mark**, Redmond Kendal, Leggett David

PP324

**Factors Related to Retreatment after Coil Embolization of Basilar Tip Aneurysm -Effect of Morphological Change Induced by Stent Placement**

**Mori Kentaro**, Amano Tatsuo, Sato Masayuki, Matsumaru Yuji

PP325

**Determination of the natural history of cerebral aneurysms treated with detachable coils according to the Raymond-Roy Occlusion Classification assessed with Magnetic Resonance Angiography**

**Paxton Mark**, Redmond Kendal, Leggett David

14:15 - 16:05

**Parallel abstract sessions**

Session room 2/Wednesday

**Aneurysm clinical: Outcomes**

Moderators: **Peter Rivera**

*Department of Neurosciences, College of Medicine and Philippine General Hospital, University of the Philippines Manila, Philippines*

**Maciek Szainer**

*Department of Interventional Neuroradiology, Medical University of Lublin, Poland*

14:15 - 14:25

193

**Complex endovascular treatment of brain aneurysms in the acute period of subarachnoid hemorrhage**

**Mikeladze Ketevan**, Yakovlev Sergey B., Bocharov Aleksey V., Bukharin Evgeny Y., Arustamyan Sergey R.

14:25 - 14:35

194

**Endovascular treatment of aneurysm in elderly patients**

**Haas Leandro Jose**, Moura Borille Thais, Della Giustina Evelyn, Piquet Sarmiento Marina, Tozzi Marques Natalia, Ahmad Omar Omar, Scramocin Thaize Regina, Camilo Liz Caroline, Sartori Felipe, Saori Tulida Leticia, Boer Vitor Hugo, Oliveira Junior Amauri

14:35 – 14:45	195 <b>Follow-up outcome of re-embolization in recanalized aneurysms after coiling: further recurrence rate and related risk factors</b> Lee Jeongjun, Kang Hyun-Seung
14:45 – 14:55	196 <b>Endovascular coil embolization of internal carotid artery anterior wall aneurysms</b> Hirohata Masaru, Takeuchi Yasuharu, Orito Kimihiko, Fujimura Naoko, Yamashita Shin, Nakamura Yukihiko, Sakamoto Rokudai, Kajihara Soushou, Morioka Motohiro
14:55 – 15:05	197 <b>Endovascular treatment of 338 middle cerebral artery aneurysms: A single center 10-year experience</b> Zhou Yu
15:05 – 15:15	198 <b>Results of endovascular and microsurgical treatment of patients with unruptured asymptomatic cerebral aneurysms of intradural part of ICA</b> Kaftanov Alexey, Yakovlev S.B, Eliava Sh.Sh., Kheireddin A.S., Filatov U.M., Arustamyan S.R., Belousova O.B, Bocharov A.V., Mikeladze K.G., Sazonov I.A., Bukharin E.U., Dmitriev A.V., Vinogradov E.V., Dorokhov P.S.
15:15 – 15:25	199 <b>The experience of endovascular treatment of unruptured intracranial aneurysms: a single-center study</b> He Xuying
15:25 – 15:35	201 <b>Ruptured middle cerebral artery aneurysms with a concomitant intraparenchymal hematoma: the role of hematoma volume</b> Zijlstra IJsbrand
15:35 – 15:45	202 <b>Long-term result of endovascular treatment with preservation of the vertebral artery in isolated dissecting aneurysms of the posterior inferior cerebellar artery</b> Jang E Wook, Kim Hyung-In, Lee JaeSeong, Lee Byung-Hee
15:45 – 15:55	203 <b>Endovascular management of distal anterior cerebral artery (DACA) aneurysms: A Retrospective Review Study</b> Hakim Shakir Husain, Andhitara Yovita, Jena Somnath Prasad, Padilla Jorge, Aritonang S, Letsoin I
15:55 – 16:05	204 <b>Usefulness of motor-evoked potential monitoring (MEP) during embolization of anterior choroidal artery aneurysms</b> Hayashi Morito, Iwabuchi Satoshi, Yokouchi Tetsuya, Sato Kenichiro, Ishii Masashi, Ikota Masashi, Saito Norihiko, Nakayama Haruo, Iwama Junya, Fujita Satoshi, Hirai Nozomi, Hiramoto Yu, Ito Keisuke, Aoki Kazuya
16:15 – 16:45	<i>Coffee break</i>
<b>17:45 – 18:45</b>	<b>Parallel abstract session</b> <span style="float: right;">Session room 2 /Wednesday</span> <b>Aneurysm clinical: Outcomes</b> <b>Moderators:</b> <b>Naci Kocer</b> <i>Neuroradiology, Istanbul, Turkey</i> <b>Stefanita Dima</b> <i>Interventional Neuroradiology Department, ELIAS Hospital, Bucarest, Romania</i>
17:45 – 17:55	205 <b>Surgical Clipping or Endovascular Coiling for Unruptured Intracranial Aneurysms: A Pragmatic Randomized Trial</b> Darsaut Tim E., Findlay J. Max, Magro Elsa, Kotowski Marc, Roy Daniel, Weill Alain, Bojanowski Michel, Chaalala Chiraz, Iancu Daniela, Lesiuk Howard, Sinclair John, Scholtes Felix, Martin Didier, Chow Michael M, O'Kelly Cian, Wong John H, Butcher Ken, Fox Allan J, Arthur Adam S, Guilbert Francois, Tian Lu, Chagnon Miguel, Nolet Suzanne, Gevry Guylaine, Raymond Jean



17:55 – 18:05	206 <b>Hybrid surgical and endovascular treatment of a giant cervical carotid aneurysm in a child</b> <b>Ocal Osman</b> , Yilmaz Mustafa, Peker Ahmet, Bilginer Burcak, Peynircioglu Bora, Arat Anil
18:05 – 18:15	207 <b>Long-term Results of Endovascular Treatment for Ugly Aneurysms using Sandwich Technique</b> <b>Kim Hyung-In</b> , Lee Byung-Hee, Lee Jae Seong, Jang E Wook, Kim Tae-Eun
18:15 – 18:25	208 <b>Endovascular treatment of tiny intracranial aneurysms: sixteen-year experience with 113 cases at a single institution</b> <b>Lu Jun</b> , Wang Da-Ming, Wang Li-Jun, Liu Jia-Chun, Qi Peng
18:25 – 18:35	209 <b>Factors of Aneurysmal Rebleeding Differ Depending on Clipping and Coiling after Subarachnoid Hemorrhage</b> <b>Horie Nobutaka</b> , Sato Shuntaro, Kaminogo Makio, Sadakata Eisaku, Morofuji Yoichi, Izumo Tsuyoshi, Anda Takeo, Matsuo Takayuki
18:35 – 18:45	210 <b>Prognostic factor for recurrence of coiled small intracranial aneurysms</b> <b>Yoon Seokmann</b> , Oh Jae-Sang, Shim Jae-Hyun, Oh Hyuk-Jin, Bae Hack-Gun

### Session Room 3, level 4 Wednesday

<b>07:15 – 08:00</b>	<b>Breakfast Seminar</b> <b>Back to the basics: The slinky enemy: vasospasm</b> Chairperson: <b>Ferenc Kövér</b> <i>Department of Neurosurgery, University of Pécs, Hungary</i>  Pathophysiology and non-endovascular treatment of vasospasm <b>Péter Vajkóczy</b> <i>Department of Neurosurgery, Charite Universitätsmedizin Berlin, Germany</i>  Endovascular Treatment options <b>Thomas Liebig</b> <i>University of Cologne, Germany</i>	Session room 3/Wednesday
<b>14:15 – 16:15</b>	<b>Parallel abstract session</b> <b>Aneurysm clinical: Coil and assisted coil</b> Moderators: <b>Alejandro M. Spiotta</b> <i>Medical University of South Carolina, Charleston, South Carolina, USA</i> <b>Kamil Zelenak</b> <i>Comenius University's Jessenius Faculty of Medicine and University Hospital, Department of Radiology, Martin, Slovakia Slovakia</i>	Session room 3/Wednesday
14:15 – 14:25	211 <b>Aneurysm coil embolization using ED coil® and 1.5F Marathon® catheter</b> <b>Asano Takeshi</b> <i>Chiba Medical Centre Hospital, Neuroendovascular Therapy, Chiba, Japan</i>	
14:25 – 14:35	212 <b>Initial Institutional Experience with the Axiom Prime Extra Soft Coil for Treatment of Intracranial Aneurysms</b> Delgado Almandoz Jossier E, <b>Kayan Yasha</b> , Scholz Jill, Milner Anna, Wallace Adam, Fease Jennifer, Mulder Maximilian	
14:35 – 14:45	213 <b>Second-generation Hydrogel-coated Coils for the Endovascular Treatment of Intracranial Aneurysms: A Randomised Controlled Trial</b>	

**Taschner Christian A.**, Chapot René, Costalat Vincent, Machi Paolo, Barreau Xavier, Jérôme Berge, Pierot Laurent, Kadziolka Kryzstof, Jean Betty, Blanc Raphaël, Biondi Alessandra, Brunel Hervé, Gallas Sophie, Berlis Ansgar, Berkefeld Joachim, Urbach Horst, El Sheikh Samer, Fiehler Jens, Desal Hubert, Graf Erika, Bonafé Alain

14:45 – 14:55

214

**A prospective, multicenter study assessing the embolization of neurovascular lesions using the Penumbra SMART COIL® System: Initial results from the SMART Registry**

**Spiotta Alejandro M.**, Liu Kenneth, Schirmer Clemens, Bellon Richard, Bohnstedt Bradley, Fiorella David

14:55 – 15:05

215

**Extra-soft SMART (PENUMBRA) coils in the endovascular treatment of very small (<3mm) intracranial aneurysms**

**Padmanabhan Rajeev**

15:05 – 15:15

216

**Long-term follow-up results of the Penumbra SMART coil in the endovascular treatment of intracranial aneurysms**

Justin Cappuzzo M., **Stapleton Christopher J.**, Koch Matthew J., Raymond Scott B., Torok Collin M., Patel Aman B.

15:15 – 15:25

217

**Does stent type impact coil embolization outcomes in extended follow-up of small-sized aneurysms (<10mm)?**

**Lee Jeongjun**, Kang Hyun-Seung

15:25 – 15:35

218

**Long-term angiographic outcome of stent-assisted coiling compared to non-assisted coiling of intracranial saccular aneurysms**

**Ozretic David**, Rados Marko, Jovanovic Ivan, Poljakovic Zdravka

15:35 – 15:45

219

**Atlas stent assisted coiling of unruptured middle cerebral artery aneurysms**

**Zelenak Kamil**, Kolarovszki B, Zelenakova J.

15:45 – 15:55

220

**NeuroForm Atlas stent-assisted coiling of intracranial aneurysms: preliminary results**

**Boogaarts Hieronymus**, ten Brinck Michelle F., de Vries Joost, Bartels Ronald H.

15:55 – 16:05

221

**Initial experience with the ATLAS microstent for the treatment of wide-necked aneurysms**

**Ulfert Christian**, Herweh Christian, Bendszus Martin, Möhlenbruch Markus

16:05 – 16:15

222

**Stent Assisted Coiling of Intracranial Aneurysms with the Low-Profile Neuroform Atlas Stent**

**Cay Ferdi**, Peker Ahmet, Arat Anil

16:15 – 16:45

*Coffee break*

17:45 – 18:45

**Parallel abstract session**

Session room 3/Wednesday

**Aneurysm clinical: Coil and assisted coil**

Moderators: **Timo Krings**

*University of Toronto, Neuroradiology, Toronto, Canada*

**Lucian Mărginean**

*Romania*

17:45 – 17:55

223

**T-configuration stenting technique with Low-profile Visualized Intraluminal Support Junior (LVIS Jr) device in wide-necked and complex bifurcation intracranial aneurysms**

**Duan GuoLi**, Li Qiang, Fang Yibin, Zhao Rui, Zuo Qiao, Yang Pengfei, Zhang Lei, Hong Bo, Xu Yi, Liu Jianmin, Huang Qinghai

17:55 – 18:05

224

**Endovascular Treatment of Cerebral Aneurysms Using LVIS Jr Stent: Mid-term Clinical and Angiographic Results**

**Pabon Boris**, Diaz Carlos, Correa Ramiro, Jorge Lopez, Torres Victor

18:05 – 18:15	225 <b>Endovascular treatment of unruptured aneurysm with LVIS and LVIS JR. stent</b> <b>Haas Leandro Jose</b> , Sartori Felipe, Scramocin Thaize Regina, Piquet Sarmiento Marina, Della Giustina Evelyn, Ahmad Omar Omar, Moura Borille Thais, Camilo Liz Caroline, Saori Tulida Leticia, Tozzi Marques Natalia, Perez Gabriel, Mello Luis Renato
18:15 – 18:25	226 <b>Reconstructive endovascular treatment of vertebral artery dissecting aneurysms with the Low-profile Visualized Intraluminal Support (LVIS) device</b> <b>Wang CC</b> , Fang YB, Xu Y, Hong B, Liu JM, Huang QH
18:25 – 18:35	227 <b>Preliminary experience with stent-assisted coiling of aneurysms arising from small (&lt;2.5 mm) cerebral vessels using Low-profile Visualized Intraluminal Support (LVIS) device</b> <b>Wang CC</b> , Li W, Feng ZZ, Xu Y, Hong B, Liu JM, Huang QH
18:35 – 18:45	228 <b>The safety and efficacy of low profile visualized intraluminal support (LVIS) stents in assisting coil embolization of small (&gt;3mm, ≤10mm) intracranial aneurysms</b> <b>Feng Zhengzhe</b> , Hong Bo, Xu Yi, Huang Qinghai, Liu Jianmin

## Session Room 4, level 5

### Wednesday

08:30 – 10:45	<b>Symposium for nurses, technicians and radiographers in cooperation with ESMINT</b>	Session room 4/Wednesday
10:45 – 12:45	<b>Hands on course for nurses, technicians and radiographers in cooperation with ESMINT</b>	Session room 4/Wednesday
14:15 – 16:15	<b>Parallel Abstract Session</b> <b>Aneurysm clinical: Flow diversion 1.</b>	Session room 4/Wednesday
	Moderators: <b>Francis Turjman</b> <i>Hôpital Neurologique, Department of Interventional Neuroradiology, Lyon, France</i> <b>Alexandra Biondi</b> <i>Department of Neuroradiology and Endovascular Therapy Besancon University Hospital, France</i>	
14:15 – 14:25	229 <b>Leo baby stent-assisted coiling in the treatment of challenging aneurysms: experience in 30 consecutive cases</b> Ceciliano Alejandro, Navarro Fernando, Villasante Francisco, Moya Hernan, Aguado Andres, Pereira Mariano	
14:25 – 14:35	230 <b>Long term follow up of widenecked and/or bifurcational aneurysms treated with the Leo Baby stent alone, or combined with loose coil packing</b> <b>Gál Gyula</b> , Diaz Anabel	
14:35 – 14:45	231 <b>Collateral Circulation Status Predicts Rate of Occlusion and Risk of Clinical Deficit in Branch Vessel Coverage</b> Raymond Scott B., Stapleton Christopher J, Koch Matthew J., Torok Collin M., Patel Aman B.	
14:45 – 14:55	232 <b>Aneurysm expansion can cause clinical deterioration after flow diverter treatment: A retrospective series of 16 intracranial aneurysms.</b> <b>de Korte Antonius Mattheus</b> , Aquarius René, Meijer Frederick J.A., Boogaarts Hieronymus D., de Vries Joost	

14:55 – 15:05	233 <b>The Silk Flow Diverter in the Endovascular Treatment of Intracranial Aneurysms: Results Diversion, a French multicenter, prospective registry</b> <b>Turjman Francis</b> , Berge Jerome, Spelle Laurent, Bonafé Alain, Pierot Laurent, Piotin Michel, Cognard Christophe, Mounayer Charbel, Biondi Alessandra
15:05 – 15:15	234 <b>Mid-term Results of the DERIVO Flow Diverter Stent in the Treatment of Cerebral Aneurysms</b> <b>Akgul Erol</b> , Onan Hasan Bilen, Akpınar Suha, Ballı Huseyin Tugsan, Aksungur Erol Huseyin
15:15 – 15:25	235 <b>Single center experience with a new generation flow diverter device (DERIVO Acandis GbmH)</b> <b>Asteggiano Francesco</b> , Divenuto Ignazio, Ajello Daniele, Nuzzi Nunzio Paolo
15:25 – 15:35	236 <b>First experience in Argentina with Derivo flow diverter device, midterm follow up</b> Ceciliano Alejandro, Villasante Francisco, <b>Navarro Fernando</b> , Moya Hernan, Aguado Andres, Pereira Mariano
15:35 – 15:45	237 <b>The DERIVO Trial: a prospective multicentre register study. Clinical and angiographic mid-term results in forty patients</b> <b>Taschner Christian A.</b> , Stracke Paul, Solymosi Laszlo, Reith Wolfgang, Prothmann Sascha, Beuing Oliver, Dorn Franziska, Turowski Bernd, Chapot René
15:45 – 15:55	238 <b>Endovascular Treatment of Spontaneous Rupture Intracranial Aneurysms using the Derivo Embolization Device (DED)</b> <b>Petra Fernando</b> , Larribau ML, Stefan G, Stefan V, Chavez V, Grana M, Aguado A
15:55 – 16:05	239 <b>Flow Diverters in Developing Countries: Endovascular Treatment of Intracranial Aneurysms with FRED. Mid-term Results</b> <b>Pabon Boris</b> , Diaz Carlos, Vargas Oscar, Torres Victor, Lopez Jorge, Correa Ramiro
<b>17:45 – 18:45</b>	<b>Parallel Abstract Session</b> <span style="float: right;">Session room 4/Wednesday</span> <b>Aneurysm clinical: Flow diversion 2.</b> Moderators: <b>Laurent Pierot</b> <i>Maison Blanche Hospital, University Hospital of Reims, Reims, France</i> <b>Markus Möhlenbruch</b> <i>Heidelberg University Hospital, Department of Neuroradiology, Heidelberg, Germany</i>
17:45 – 17:55	240 <b>Treatment of complex cerebral aneurysms using the FRED flow diverter: experience in a series of 25 aneurysms</b> <b>Garbugino Silvia L</b> , Sayavedra Ramiro, Goland Javier, Beldi Florencia, Lemme Plaghos Luis
17:55 – 18:05	241 <b>European Multicenter Study for Evaluation of a Dual layer Flowdiverting Stent for Treatment of wide neck Intracranial Aneurysms: The EuFRED-Study</b> <b>Killer-Oberpfalzer Monika</b>
18:05 – 18:15	242 <b>Aneurysm treatment with FRED and FRED Jr: Results of SAFE (Safety and Efficacy Analysis of Fred Embolic Device in Aneurysm Treatment) Study</b> <b>Pierot Laurent</b> , Gauvrit Jean-Yves, Lejeune Jean-Paul, Derelle Anne-Laure, Chabert Emmanuel
18:15 – 18:25	243 <b>COMFORT - Colombian Multicenter Flow-diverter Observational Reconstruction Trial. Local Experience in the Endovascular Treatment of Intracranial Aneurysms with FRED stent</b> <b>Pabon Boris</b> , Holguin Jorge, Fonseca Marco, Diaz Carlos, Lobelo Nelson, Correa Ramiro
18:25 – 18:35	244 <b>Multicenter experience with FRED Jr. Flow Re-Direction Endoluminal Device for Intracranial Aneurysms in Small Arteries</b>

**Möhlenbruch Markus A.**, Kizilkilic Osman, Killer Monika, Baltacioglu Feyyaz, Islak Civan, Bendszus Martin, Cekirge Saruhan, Saatci Isil, Kocer Naci

18:35 – 18:45

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**FRED stent for the treatment of intracranial aneurysms**

**Wong George KC**, Yu Simon CH, Ho Faith LY

# Thursday, 19<sup>th</sup> of October: Aneurysms

## Plenary Room, level 2

<b>08:30 – 10:00</b>	<b>Parallel abstract session</b> <b>Aneurysm clinical: coil supporting techniques and miscellaneous</b>	Plenary Room/Thursday
	Moderators: <b>Sourour Nader</b> <i>Hopital Pitie salpetriere, INR, Paris, France</i> <b>Paul Bhogal</b> <i>Klinikum Stuttgart, Neuroradiology, Stuttgart, Germany</i>	
08:30 – 08:40	246 <b>Up to 18 months DSA Follow up results using Medina® Embolization Device (MED) in the treatment of wide neck intracranial aneurysms.</b> <b>Sourour Nader</b> , Shoteir, Eimad, Di Maria Federico, Rollabigliani Claudia, Pistocchi Sylvia, Bartolini Bruno, Clarencon Frederic	
08:40 – 08:50	247 <b>The Medina Embolic Device – clinical experience in 34 aneurysms from a single center</b> <b>Aguilar-Perez Marta</b> , Hellstern Victoria, Almatter Mohammed, Bhogal Paul, Ganslandt Oliver, Bänzner Hansjörg, Henkes Hans	
08:50 – 09:00	248 <b>The efficacy of parent artery occlusion for internal carotid artery with a combination of coil and NBCA</b> <b>Izumi Takashi</b> , Nishihori Masahiro, Yousuke Tamari, Ishida Mamoru, Tsukada Tetsuya, Kropp Asuka, Miyachi Shigeru, Wakabayashi Toshihiko	
09:00 – 09:10	249 <b>Treatment of wide-necked bifurcation aneurysms with the pCONus1: procedural safety and long-term occlusion stability in 144 aneurysms</b> <b>Aguilar-Perez Marta</b> , AlMatter Mohammed, Hellstern Victoria, Serna-Candel Carmen, Ganslandt Oliver, Bänzner Hansjörg, Henkes Hans	
09:10 – 09:20	250 <b>The new pCONus2: initial experience in 15 patients</b> <b>Aguilar-Perez Marta</b> , Lylyk Pedro, Sahl Harald, Bhogal Paul, Ganslandt Oliver, Bänzner Hansjörg, Henkes Hans	
09:20 – 09:30	251 <b>Treatment of complex wide-neck MCA aneurysms using pCONUS device - 3 centers experience</b> <b>Miś Marcin M</b> , Miś Maciej M	
09:30 – 09:40	252 <b>Visual outcomes of endovascular and microsurgical treatment for large or giant paraclinoid aneurysms</b> <b>Shimizu Tatsuya</b> , Naito Isao, Aihara Masanori, Fujimaki Hiroya, Asakura Ken, Miyamoto Naoko, Yoshimoto Yuhei	
09:40 – 09:50	253 <b>Occlusion status on magnetic resonance angiography and risk of delayed ischemia after stent-assited coil embolization</b> <b>Kikuchi Takayuki</b> , Ishii Akira, Chihara Hideo, Ando Mitsushige, Takenobu Yohei, Okada Tomohisa, Takagi Yasushi, Miyamoto Susumu	
09:50 – 10:00	254 <b>Outcomes of endovascular treatment for vertebral artery dissection</b> <b>Nam Taek Min</b> , Park Moo Seok, Lee Young Woon, Yeon Je Young, Kim Keon Ha, Jeon Pyoung	
10:00 – 10:30	<i>Coffee break</i>	
<b>10:30 – 11:15</b>	<b>Plenary session 12.</b> <b>Aneurysm biology</b> Chairperson: <b>Miklós Marosfői</b>	Plenary Room/Thursday

University of Massachusetts Medical School, Department of Radiology, Worcester MA, USA

Moderators: **Todd Abruzzo**  
*Departments of Radiology, Neurosurgery, Pediatrics and Biomedical Engineering  
University of Cincinnati and Cincinnati Children's Hospital Medical Center, USA*  
**Jorge Santos**  
*Mexico*

10:30 – 10:45 Mechanisms of aneurysm thrombosis  
**Jean-Baptiste Michel**  
*INSERM UMRS 1148 –LVTS, Laboratory for Vascular Translational Science, University Paris Diderot, Paris, France*

10:45 – 11:00 Aneurysm wall biology  
**Juhana Frösen**  
*Kuopio University Hospital, Neurosurgery, Kuopio, Finland*

11:00 – 11:15 Panel discussion

**11:15 – 12:15 Plenary session 13. Predicting aneurysm treatment results by simulation** Plenary Room/Thursday

Chairperson: **Ajay Wakhloo**  
*Umass Memorial Medical Centre Worcester, MA, USA*

Moderators: **Gábor Janiga**  
*Laboratory of Fluid Dynamics and Technical Flows, University of Magdeburg, Germany*  
**Akira Ishii**  
*Kyoto University, Japan*

11:15 – 11:30 INV28  
Flow simulation: is it clinically relevant?  
**Matthew J. Gounis**  
*University of Massachusetts Medical School, Radiology, Worcester, USA*

11:30 – 11:45 Flow simulation: have we learned anything new recently?  
**Gábor Závodszy**  
*Budapest University of Technology and Economics, Department of Hydrodynamic Systems, Budapest, Hungary*

11:45 – 12:00 INV29  
How to validate simulation results  
**Kristian Valen-Sendstad**  
*Simula Research Laboratory, Oslo, Norway*

12:00 – 12:15 Panel discussion

**12:15 – 13:15 Industry symposia** Plenary Room/Thursday

13:15 – 14:15 Lunch break

**14:15 – 16:00 Plenary Session 14. Aneurysm: value of different treatment modalities** Plenary Room/Thursday

Chairperson: **James Byrne**  
*University of Oxford, UK*

Moderators: **Peter Kim Nelson**  
*Abbott Northwestern Hospital, Neurointerventional Radiology, Minneapolis, USA*  
**Winston Chong**  
*Interventional Neuroradiology, Monash Medical Centre, Australia*

Panelists: **Laurent Pierot**  
*Maison Blanche Hospital, University Hospital of Reims, Reims, France*  
**Adnan Siddiqui**  
*Neurosurgical Stroke Service, Kaleida Health, USA*  
**Pedro Lylyk**  
*ENERI and La Sagrada Familia Buenos Aires, Argentina*

14:15 – 14:20 How would you do this case? Demonstrative case presentation & audience poll

- 14:20 – 14:35 Shall we plug the whole? (Is aneurysm packing still needed?)  
**René Chapot**  
*Alfried Krupp Hospital in Essen-Ruettenscheid, Department of Radiology and Neuroradiology, Germany*
- 14:35 – 15:50 Shall we fly with the flow?  
  
Have we improved flow diversion over the past decade? Debate
- 14:35 – 14:50 INV30  
Yes  
**Ajay K. Wakhloo**  
*University of Massachusetts Medical School, Neuroimaging and Intervention, Worcester, USA*
- 14:50 – 15:05 No  
**Tommy Andersson**  
*Karolinska Universitetssjukhuset Solna, Stockholm, Sweden*
- Intrasaccular flow modification: does it work? Debate
- 15:05 – 15:20 Yes  
**Adam Arthur**  
*Semmes-Murphey Clinic, Memphis, USA*
- 15:20 – 15:35 No  
**Christophe Cognard**  
*Centre Hospitalier Universitaire (CHU) de Toulouse, France*
- 15:35 – 15:45 Panel discussion and audience polling
- 15:45 – 16:00 Vasospasm: any improvement in the past years?  
**Thomas Liebig**  
*University of Cologne, Cologne, Germany*
- 16:00 **Adjourn & closing ceremony**

## Session Room 1, level Thursday

08:30 – 10:00	Parallel abstract session Aneurysm clinical: WEB	Session Room 1/Thursday
	Moderators: <b>Edoardo Boccardi</b> <i>Niguarda Hospital, Milano, Italy</i> <b>Juhana Frösen</b> <i>Kuopio University Hospital, Neurosurgery, Kuopio, Finland</i>	
08:30 – 08:40	255 <b>Evaluation of the Safety and Efficacy of Aneurysm Treatment with WEB device in the cumulated population of 3 prospective, multicenter series (WEBCAST, French Observatory, WEBCAST-2)</b> <b>Pierot Laurent</b> , Molyneux Andrew, Byrne James	
08:40 – 08:50	256 <b>Initial experience with the new WEB 17 system in treatment of intracranial aneurysms</b> <b>Peluso Jo</b> , van Rooij Sanne, van Rooij Willem Jan, Sluzewski Menno	
08:50 – 09:00	257 <b>WEB Treatment of Ruptured Intracranial Aneurysms: a Single Center Cohort of 100 Patients</b> van Rooij Sanne, <b>Peluso Jo</b> , van Rooij Willem Jan, Sluzewski Menno	
09:00 – 09:10	258 <b>Aneurysm Treatment with WEB®: Evaluation of the 21 and 17 Systems in a prospective, single-center series of 38 patients</b> <b>Pierot Laurent</b> , Soize Sébastien, Gawlitz Matthias	



09:10 – 09:20	259 <b>WEB Treatment of Unruptured Intracranial Aneurysms: a Single Center Cohort of 54 aneurysms</b> Peluso Jo, van Rooij Willem Jan, van Rooij Sanne, Sluzewski Menno
09:20 – 09:30	260 <b>Endovascular treatment of wide-neck and bifurcation intracranial aneurysms using WEB embolization device - a single center 3 years experience</b> Miś Marcin, Miś Maciej M.
09:30 – 09:40	261 <b>Clinical results of WEB treatment in previously treated intracranial aneurysms</b> Peluso Jo, van Rooij Sanne, van Rooij Willem Jan, Sluzewski Menno
09:40 – 09:50	262 <b>The impact of oversizing on the efficacy of WEB intrasaccular flow disruptors</b> Pogácsás Bettina, Asztalos Lilla, Nagy Péter, Bognár Eszter, Vadász Ágnes, Szikora István
09:50 – 10:00	263 <b>Parent artery reconstruction for large or giant cerebral aneurysms using Tubridge flow diverters (PARAT): a multicenter, randomized, controlled clinical trial</b> Liu Jianmin, Zhou Yu, Huang Qiang, Yang Pengfei, Fang Yibin, Li Qiang, Zhao Rui, Xu Yi, Hong Bo

## Session Room 2, level 4 Thursday

<b>08:30 – 10:00</b>	<b>Parallel abstract session</b>	Session Room 2/Thursday
	<b>Aneurysm clinical: antiplatelet treatment and miscellaneous</b>	
	Moderators: <b>Tibor Becske</b> <i>Rochester General Hospital, Rochester, NY, USA</i> <b>Michael Söderman</b> <i>Department of Neuroradiology, Karolinska University Hospital – Solna, Stockholm, Sweden</i>	
	Special Expert: <b>Lucie Thibault</b> <i>Montreal, Canada</i>	
08:30 – 08:40	264 <b>Treatment of challenging aneurysms by flow diverter: Summary series of 140 cases at Bach Mai Hospital</b> Vu Dang Luu, Pham Ming Thong, Tran Anh Tuan, Nguyen Quang Anh	
08:40 – 08:50	265 <b>Can a singular measurement with Verifynow under constant dual antiplatelet regimen categorize patient into a responder type?</b> Kropp Asuka Elisabeth, Izumi Takashi, Nishihori Masahiro, Tamari Yosuke, Tsukada Tetsuya, Ishida Mamoru	
08:50 – 09:00	266 <b>Intravenous administration of tirofiban versus loading dose of oral clopidogrel for preventing thromboembolism in stent-assisted coiling of intracranial aneurysms</b> Liang Xiaodong, Wang Ziliang, Li Tianxiao	
09:00 – 09:10	267 <b>Low-dose prasugrel is safe and effective for stent-assisted treatment of intracranial aneurysms</b> Kang Hyun-Seung, Lee Jeongjun, Cho Young Dae, Yoo Dong Hyun, Han Moon Hee	
09:10 – 09:20	268 <b>Initial response and Long term variation of response to clopidogrel in patients undergoing endovascular treatment</b> Sato Keisuke, Ito Yasushi, Hasegawa Hitoshi, Kikuchi Bumpei, Hondo Hiroaki, Kobayashi Tsutomu, Aoki Hiroshi, Fujii Yukihiko	

- 09:20 – 09:30 269  
**Safety and efficacy of antiplatelet response assay and drug adjustment in stent-assisted coil embolization: A propensity score matching analysis**  
**Kim Min Soo**, Jo Kyung Il, Yeon Je Young, Kim Jong Soo, Kim Keon Ha, Jeon Pyoung, Hong Seung Chyul
- 09:30 – 09:40 270  
**Endovascular Treatment of Posterior Fossa Spontaneous Intracranial Dissecting Aneurysms: Related outcomes of 56 Cases treated by intracranial Stenting or Parent Vessel Occlusion**  
**Petra Fernando**, Larribau ML, Aguado A, Stefan G, Stefan V, Chavez V, Grana M
- 09:40 – 09:50 271  
**Stents as Adjuncts to Flow Diverters**  
**Ocal Osman**, Peker Ahmet, Arat Anil
- 09:50 – 10:00 272  
**Development of microporous covered stent for the treatment of intracranial aneurysms (NCVC-CS1): its functional features and commencement of investor-initiated clinical trial**  
**Satow Tetsu**, Nakayama Yasuhide, Sakai Nobuyuki, Yamamoto Haruko, Oishi Hidenori, Hamano Eika, Orita Yoji, Matsubara Hirofumi, Takahashi Jun C

**13:15 – 13:45** **Poster session** Session room 2/Thursday

Chairperson: **Maciek Szainer**  
*Department of Interventional Neuroradiology, Medical University of Lublin, Poland*

Moderator: **Winston Lim**  
*Singapore General Hospital, Singapore*

PP326  
**The natural history of unruptured intracranial aneurysms: A retrospective, single center study**  
**Okawara Mai**, Kanazawa Ryuzaburo, Yamaguchi Hiroyuki, Ueda Mikiya, Maeda Takahiro

PP327  
**Incidence and risk factors of intracranial aneurysm: A national cohort study in Korea**  
**Kim Tackeun**, Lee Heeyoung, Ahn Soyeon, Kwon O-Ki, Bang Jae Seung, Oh Chang Wan, Yoo Ji Young

PP328  
**Prevalence of Intracranial Aneurysm in Patients with Aortic Dissection**  
**W.S. Jung, Sang Hyun Suh**

PP329  
**Crescent sign following Enterprise stent-assisted embolization of distal internal carotid artery aneurysms**  
**Yeon Je Young**, Kim Keon-Ha, Jeon Pyoung

PP330  
**Endovascular Treatment of Complex Cerebral Aneurysms with a Branch Incorporated into the Sac**  
**Kim Dae Won**, Kang Sung Don, Park Jong Tae, Choi Si Sung

PP331  
**Aneurysmal Rupture during Embolization with Guglielmi Detachable Coils: Causes, Management, and Outcome**  
**Hwang Daehyun**, Hur Jun, Hur Choonwoong

PP332  
**Balloon Assisted Coil Embolisation with ECLIPSE (BALT) Balloon – Single Centre, Consecutive, Retrospective Series**  
**Padmanabhan Rajeev**, Hanson Mark

PP333  
**Quantitative assessment of cerebral aneurysm wall enhancement using MR imaging**  
**Omodaka Shunsuke**, Endo Hidenori, Niizuma Kuniyasu, Fujimura Miki, Inoue Takashi, Matsumoto Yasushi, Tominaga Teiji

PP334

**Central fever in relation to perianeurysmal inflammation following endovascular embolization of intracranial aneurysm: case report**

**Padolecchia Riccardo**, Ganci Giuseppe, Uccelli Massimiliano, Cagetti Bernarda, Calia Stefano, Valsania Valter

**Session Room 3, level 4**

Thursday

08:30 - 10:00	Parallel abstract sessions	Session Room 3/Thursday
	<b>Aneurysm clinical: Vasospasm and miscellaneous</b>	
	Moderators: <b>Elina Henkes</b> <i>Klinikum Stuttgart, Neuroradiology, Stuttgart, Germany</i> <b>Noboyuki Sakai</b> <i>Neurosurgery, KCGH Comprehensive Stroke Center, Kobe City Medical Center General Hospital, Kobe, Japan</i>	
08:30 - 08:40	273 <b>Aneurysms retreatment after over 20 years: the importance of a very long-time follow-up</b> <b>Cirillo Luigi</b> , Rustici Arianna, Princiotta Ciro, Dall'Olio Massimo, Bortolotti Carlo, Sturiale Carmelo, Agati Raffaele, Leonardi Marco	
08:40 - 08:50	274 <b>Endovascular and Surgical Options for Recurrent Aneurysms after Coil Embolization: A Single Surgeon's Experience in Japan</b> <b>Toyota Shingo</b> , Kumagai Tetsuya, Kuroda Hideki, Takenaka Tomofumi, Kobayashi Maki, Goto Tetsu, Mori Kanji, Taki Takuyu	
08:50 - 09:00	275 <b>Flow diverter treatment of intracranial aneurysms and dissections during the acute phase after SAH</b> Henkes Hans, Hellstern Victoria, <b>Henkes Elina</b> , Schob Stefan, AlMatter Muhammad, Serna Candel Carmen, Bätzner Hansjörg, Ganslandt Oliver, Aguilar Perez Marta	
09:00 - 09:10	276 <b>Flow Diverter Stent Therapy in Acute Ruptured Cerebral Aneurysms</b> <b>Lucas-Neto Lia</b> , Sequeira Paulo, Biscoito Luisa, Basílio Gonçalo, Correia Manuel, Campos Jorge	
09:10 - 09:20	277 <b>Double-layer stent for treatment of dissecting carotid artery aneurysm</b> Almeida-Silva Joao M, <b>Caldas Jose GMP</b> , Junior Francisco R, Ferraz Fausto M, Silva Felipe GV	
09:20 - 09:30	278 <b>Significance of posthemorrhagic cerebral vasospasm on clinical outcome in 178 cases from a single center</b> <b>AlMatter Muhammad</b> , Aguilar Pérez Marta, Hellstern Victoria, Serna Candel Carmen, Ganslandt Oliver, Bätzner Hansjörg, Henkes Hans	
09:30 - 09:40	279 <b>Stent-plasty for Cerebral Vasospasm: A single center experience</b> <b>Loh Yince</b> , McDougall Cameron G, Monteith Stephen J, Patel Akshal S, Andersson Tommy, Brouwer Patrick A, Soderman Michael, Bhogal Pervinder	
09:40 - 09:50	280 <b>500 mm3 is the critical aneurysm volume determining stability after coil embolization</b> <b>Kang Hyun-Seung</b> , Han Moon Hee, Cho Young Dae, Lee Jeongjun, Yoo Dong Hyun	
09:50 - 10:00	281 <b>Predictive factors of medullary infarction associated with endovascular parent artery occlusion for vertebral artery dissecting aneurysms</b> <b>Aihara Masanori</b> , Naito Isao, Shimizu Tatsuya, Miyamoto Naoko, Yoshimoto Yuhei	

## Session Room 4, level 5

Thursday

08:30 – 10:00	Parallel abstract sessions	Session Room 4/Thursday
	<b>Aneurysm clinical: Flow diversion 3.</b> Moderators: <b>Goel Gaurav</b> <i>Medanta Hospital, Gurgaon, India</i> <b>Yasha Kayan</b> <i>Abbott Northwestern Hospital, Neurointerventional Radiology, Minneapolis, USA</i>	
08:30 – 08:40	282 <b>Endovascular Reconstruction of Intracranial Large / Giant Wide-Neck Aneurysms: Surpass Flow Diverter Early Experience</b> <b>Pabon Boris, Vargas Oscar, Diaz Carlos, Torres Victor, Lopez Jorge</b>	
08:40 – 08:50	283 <b>Surpass Flow diverter: the Greek experience from a single-center study in 25 consecutive patients</b> <b>Mitsos Aristotelis P., Derakhshani Shahram</b>	
08:50 – 09:00	284 <b>Surpass flow diverter in the treatment of acutely ruptured aneurysms – Indian multicenter experience</b> <b>Goel Gaurav, Mahajan Anshu, Das Biplab, Narang Karanjit Singh, Sapra Harsh, Goyal Sumit, Sahu Sanjay, Sahu Chandradev, Jha Ajaya Nand</b>	
09:00 – 09:10	285 <b>Use of Surpass device together with AXS Catalyst 5 distal access catheter</b> <b>Topcuoglu O.Melih, Peker Ahmet, Arat Anil</b>	
09:10 – 09:20	286 <b>Safety and Efficacy of the Pipeline Embolization Device for Treatment of Posterior Circulation Intracranial Aneurysms</b> <b>Delgado Almandoz Josser E, Kayan Yasha, Scholz Jill, Uittenbogaard Kyle, Milner Anna, Fease Jennifer, Wallace Adam, Nelson Kyle, Mulder Maximilian</b>	
09:20 – 09:30	287 <b>Endovascular treatment of large, giant and fusiform aneurysms of posterior circulation with PED</b> <b>Sergey Arustamyan, Yakovlev Sergey, Belousova Olga, Kaftanov Aleksey</b>	
09:30 – 09:40	288 <b>Safety and Efficacy of the Pipeline Embolization Device for Treatment of Ruptured Intracranial Aneurysms</b> <b>Delgado Almandoz Josser E, Kayan Yasha, Uittenbogaard Kyle, Scholz Jill, Milner Anna, Fease Jennifer, Wallace Adam, Nelson Kyle, Mulder Maximilian</b>	
09:40 – 09:50	289 <b>Yes, we can: Results of a Large Series of Intracranial Aneurysms Treated with Pipeline Flow Diverter Stent in a Developing Country</b> <b>Pabon Boris, Diaz Carlos, Torres Victor, Vargas Oscar</b>	
09:50 – 10:00	290 <b>Safety and Efficacy of the Pipeline Embolization Device for Treatment of Recurrent Intracranial Aneurysms</b> <b>Delgado Almandoz Josser E, Kayan Yasha, Fease Jennifer, Uittenbogaard Kyle, Scholz Jill, Milner Anna, Nelson Kyle, Wallace Adam, Mulder Maximilian</b>	

# Program of Symposium for Nurses, Technicians and Radiographers in cooperation with ESMINT

**Monday, 16<sup>th</sup> of October**

**Session Room 4, level 5**

**08:30 – 13:00 Symposium for nurses, technicians and radiographers in cooperation with ESMINT – 1.**

Chairperson: **Adriaan van Es**

*Erasmus Mc, Rotterdam, the Netherlands*

Moderators: **Kiffon Keigher**

*Rush University Medical Center hospital Chicago, USA*

**Ake Holmberg**

*Karolinska Universitetssjukhuset Solna, Stockholm, Sweden*

08:30 – 08:40

**Opening**

08:40 – 09:00

The role of nurses, radiographers and technicians in the acute stroke era: challenges and expectations

**István Szikora**

*National Institute of Clinical Neurosciences, Budapest, Hungary*

09:00 – 09:20

Stroke workflows—the European and American experience

**Kiffon Keigher**

*Rush University Medical Center hospital Chicago, USA*

09:20 – 09:40

Organization, method of operation and performance of our thrombectomy procedure

**Sebastian van Dirach**

*University Hospital Odense, Denmark*

09:40 – 10:00

Mechanical thrombectomy: current indications

**Laurent Pierot**

*Maison Blanche Hospital, University Hospital of Reims, Reims, France*

10:00 – 10:20

Swedish quality register and EVAS

**Åke Holmberg**

*Karolinska Universitetssjukhuset Solna, Stockholm, Sweden*

10:20 – 11:00

*Coffee break*

**11:00 – 13:00 Symposium for nurses, technicians and radiographers in cooperation with ESMINT – 2.**

Chairperson: **Adriaan van Es**

*Erasmus Mc, Rotterdam, the Netherlands*

Moderators: **Fabienne Menu**

**Sébastien Soize**

*Maison Blanche Hospital, University Hospital of Reims, Reims, France*

11:00 – 11:20

Endovascular treatment of Ischemic Stroke - What we know and what we don't know

**Wim van der Zwam**

*Maastricht University Medical Centre, Maastricht, The Netherlands*

11:20 – 11:40

Imaging in Stroke

**Adriaan van Es**

*Erasmus University Medical Center Rotterdam, The Netherlands*

11:40 – 12:20

Influence of clot types, speed of retrieval and catheter position on mechanical thrombectomy efficacy: experimental study on a cerebrovascular model

**Fabienne Menu & Sébastien Soize**

*Maison Blanche Hospital, University Hospital of Reims, Reims, France*

12:20 – 13:00

It's all about teamwork

**Tommy Andersson**

*Karolinska Universitetssjukhuset Solna, Stockholm, Sweden*

# Wednesday, 18<sup>th</sup> of October

## Session Room 4, level 5

<b>08:30 – 13:00</b>	<b>Symposium for nurses, technicians and radiographers in cooperation with ESMINT – 3.</b> Chairperson: <b>Adriaan van Es</b> <i>Erasmus Mc, Rotterdam, the Netherlands</i> Moderators: <b>Ariene Mastebroek</b> <i>LUMC, Radiology, Netherlands</i> <b>Helen Genins</b> <i>Uppsala University Hospital, Uppsala, Sweden</i>
08:30 – 08:40	<b>Opening</b>
08:40 – 09:00	Antiplatelet/anticoagulation use for the aneurysm and stroke patient and reversal of these drugs <b>Kiffon Keigher</b> <i>Rush University Medical Center hospital Chicago, USA</i>
09:00 – 09:20	Current Treatment Options for Intracranial aneurysms <b>Jan-Hendrik Buhk</b> <i>Universitätsklinikum Hamburg Eppendorf, Hamburg, Germany</i>
09:20 – 09:40	Pre-hospital acute stroke screening and mobile stroke units <b>Demetrius Lopes</b> <i>Rush University Medical Center hospital Chicago, USA</i>
09:40 – 10:00	Significance and challenges of data collection for acute stroke management <b>Ágnes Vadász &amp; Viktória Csike</b> <i>National Institute of Clinical Neurosciences, Budapest, Hungary</i>
<b>10:00 – 10:45</b>	Coffee break
<b>10:45 – 12:45</b>	<b>Hands on course</b> Moderators: <b>Johanna Doshé</b> <i>Karilinska University Hospital, Stockholm, Netherlands</i> <b>Kathryn Jones</b> <i>Royal Hobart Hospital, Medical Imaging Department Tasmania, Australia</i>  Hands on workshop for nurses, technicians and operators Provided by Medtronic Neurovascular, Stryker Neurovascular and Neuravi/Codman  This exclusive workshop will provide the participants with an excellent opportunity to gain an experience with stroke and aneurysm treatment as well as to learn about the structure and composition of different clots.