ESMINT

11th Congress 2019

11th Congress of the
European Society of
Minimally Invasive Neurological Therapy

4 – 6 September 2019

New days of the week: Wednesday – Friday

Acropolis Convention Centre – Nice, France

THE EUROPEAN ASSOCIATION OF NEUROSURGICAL SOCIETIES

7th Joint meeting with EANS on **4 September 2019**

Society of NeuroInterventional Surgery SNIS

Session in collaboration with SNIS on **4 September 2019**

ESO EUROPEAN STROKE ORGANISATION

Stroke session with ESO on **5 September 2019**

EYMINT Young Interventionalists @ESMINT

Young Interventionalists @ESMINT Congress on **4 September 2019**

They didn't know it was impossible so they did it.

Mark Twain

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Final Programme

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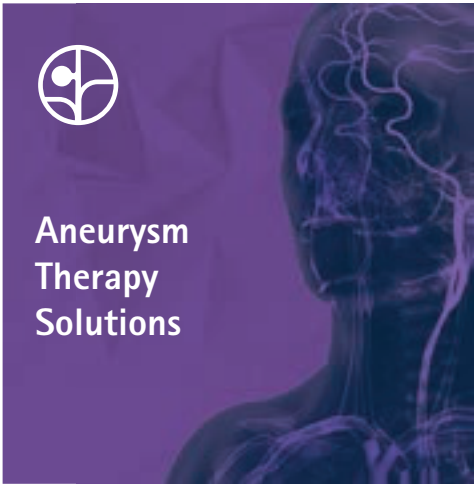

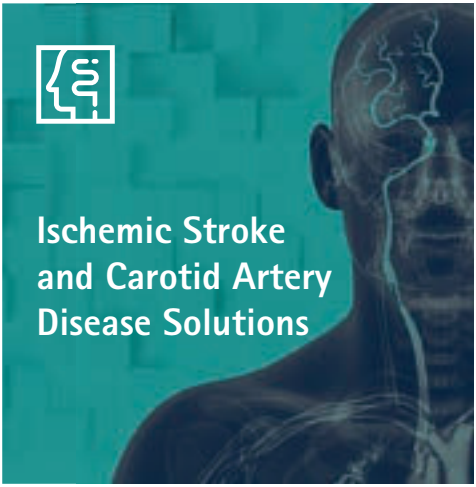

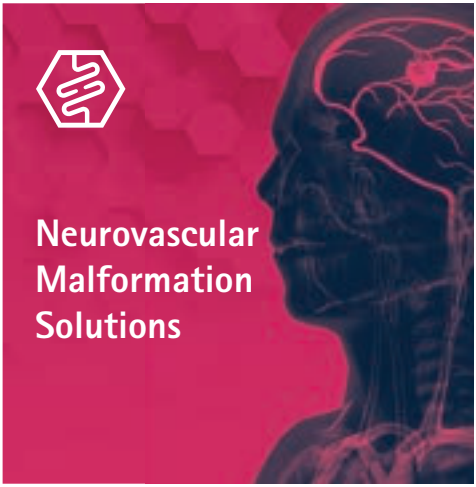

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Editorial

11th ESMINT Congress: a birth-place for new projects

Dear Colleagues, dear Friends,

It is an honour and pleasure to welcome you to the 11th Congress of the European Society of Minimally Invasive Neurological Therapy in Nice, France.

As we approach the beginning of a new decade we consider what the future will bring: innovative therapies, new technologies, and new challenges. As always, the ESMINT Congress will be an opportunity to strengthen our ties with the European Association of Neurosurgical Societies (EANS), the European Stroke Organisation (ESO) and the Society of NeuroInterventional Surgery (SNIS); and renew our commitment to pluri-disciplinary research in the service of the patient.

We hope the programme will be both stimulating and ambitious, and this ESMINT meeting will be an incubator for new ideas, and a birth-place for new projects. As always, this congress will be a unique opportunity to meet, share and discuss.

We represent many different professional backgrounds, countries and cultures. Let us ensure that these differences do not become boundaries that impede the sharing of knowledge as we contribute to the scientific progress of our community in the field of Interventional Neuroradiology.

We are counting on your active participation, your constructive criticism, and your spirited debate to make this congress an exceptional event.

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Pr Laurent Spelle, Vice President
Pr Jens Fiehler, Vice President

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Wednesday, 4 September 2019

	Main Lecture Hall, Muses Area, Level 3	Gallieni 1+2, Level 2
08:00	**08:00 – 09:00** Joint Meeting with EANS Vascular Section p. 6	
08:15		
08:30		**08:30 – 10:00** EYMINT: Young Interventionalists@ESMINT Congress 2019: Stroke p. 10
08:45		
09:00	**09:00 – 09:15** How I do it? p. 6	
09:15	**09:15 – 09:45** Delegate Cases p. 6	
09:30		
09:45	**09:45 – 10:00** Industry Symposium p. 29	
10:00	**10:00 – 10:30** Coffee Break	**10:00 – 10:30** Coffee Break
10:15		
10:30	**10:30 – 12:00** Joint Meeting with EANS Vascular Section p. 7	**10:30 – 13:00** EYMINT: Young Interventionalists@ESMINT Congress 2019: Career & Research p. 10
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11:00		
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12:00	**12:00 – 12:30** Delegate Cases p. 7	
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12:30	**12:30 – 13:00** Industry Symposium p. 29	
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13:00	**13:00 – 14:00** Lunch Break	**13:00 – 14:00** Lunch Break
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14:00	**14:00 – 14:30** Industry Symposium p. 29	**14:00 – 16:00** EYMINT: Young Interventionalists@ESMINT Congress 2019: Superficial vascular malformations, aneurysms & percutaneous p. 11
14:15		
14:30	**14:30 – 15:30** Joint Meeting with SNIS p. 8	
14:45		
15:00		
15:15		
15:30	**15:30 – 16:00** Delegate Cases p. 8	
15:45		
16:00	**16:00 – 16:30** Coffee Break	
16:15		
16:30	**16:30 – 16:45** Industry Symposium p. 29	
16:45	**16:45 – 18:30** Joint Meeting with SNIS p. 9	
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18:00		
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18:30	**18:30 – 19:30** ESMINT General Assembly p. 9	
18:45		
19:00		
19:15		
19:30		

PROGRAMME AT A GLANCE

Thursday, 5 September 2019

Main Lecture Hall, Muses Area, Level 3

- **08:00 – 09:15** Stroke Session with ESO — p. 12
- **09:15 – 09:45** Delegate Cases — p. 12
- **09:45 – 10:00** Industry Symposium — p. 29
- **10:00 – 10:30** Coffee Break
- **10:30 – 11:45** Stroke Session with ESO — p. 13
- **11:45 – 12:00** How I do it? — p. 13
- **12:00 – 12:30** Delegate Cases — p. 13
- **12:30 – 13:00** Industry Symposium — p. 29
- **13:00 – 14:00** Lunch Break
- **14:00 – 14:30** Industry Symposium — p. 29
- **14:30 – 14:45** Award for the Best European Publication in JNIS — p. 14
- **14:45 – 15:00** Award Ceremony: ESMINT Diploma/Stroke Diploma — p. 14
- **15:00 – 15:45** Honorary Membership — p. 14
- **15:45 – 16:15** Special Lecture — p. 14
- **16:15 – 16:30** Coffee Break
- **16:30 – 16:45** Industry Symposium — p. 29
- **16:45 – 17:15** ESMINT's Future Talents — p. 15
- **17:15 – 18:30** Going Beyond the Pale: cases discussion — p. 15
- Social Cocktail Reception — p. 39

Friday, 6 September 2019

Main Lecture Hall, Muses Area, Level 3

- **08:30 – 09:45** ESMINT Session — p. 16
- **09:45 – 10:00** Industry Symposium — p. 29
- **10:00 – 10:30** Coffee Break
- **10:30 – 11:00** Regulatory — p. 16
- **11:00 – 11:45** Best European Studies — p. 16
- **11:45 – 12:20** ESMINT Session — p. 17
- **12:20 – 13:10** New Technology Symposia — p. 31
- **13:10 – 14:00** Lunch Break
- **14:00 – 16:00** Morbimortality Corner, Delegate Cases — p. 17

08:00 – 09:00 **Joint Meeting with EANS Vascular Section: Giant / thrombosed / fusiform aneurysms of middle and anterior cerebral arteries. Surgery / endovascular or nothing?** **Main Lecture Hall**

Moderators: *P. Brouwer, Netherlands; A. Gruber, Austria*

Panelists: *N. Kocer, Turkey; M. Lawton, United States; I. Szikora, Hungary; P. Vajkoczy, Germany*

09:00 – 09:15 **How I do it?** **Main Lecture Hall**

J. Caroff, France; M. Cronqvist, Sweden

09:15 – 09:45 **Delegate Cases** **Main Lecture Hall**

Moderators: *M. Holtmannspoetter, Germany; P. Vajkoczy, Germany*

09:15 **Mini craniotomy, trans-sylvian, trans insular removal of hypertensive basal ganglia Haematomas**
P. Hwang, Singapore

09:25 **Surgical strategies in the treatment of complex intracranial aneurysms**
M. Gmeiner, Austria

09:35 **Five cases of dissecting aneurysms in children. Successful treatment with flow-diverters**
M. Piano, Italy

09:45 – 10:00 **Industry Symposium,** see page 29 **Main Lecture Hall**

10:00 – 10:30 **Coffee Break** **Exhibition Hall**

10:30 – 12:00 Joint Meeting with EANS Vascular Section: Decision making in unruptured aneurysms

Main Lecture Hall

Moderators: *T. Darsaut, Canada; M. Niemela, Finland*

10:30 **Should I treat? Cases presentation**
C. Michelozzi, Italy

10:35 **Risk factors for aneurysm rupture and growth**
A. Raabe, Switzerland

10:45 **Pathology of aneurysm wall**
M. Niemela, Finland

10:55 **Does aneurysm wall imaging help to make a decision?**
M. Edjlali-Goujon, France

11:05 **Scales and scores for decision**
M. Vergouwen, Netherlands

11:15 **Which evidence for use of aspirin and statines in unoperated cases?**
N. Etminan, Netherlands

11:25 **Should I treat? Does the use of score change your decision. Same cases presentation**
C. Michelozzi, Italy

11:35 **Conclusion: After TEAM failure, could a TOBAS like study help us answering these questions?**
J. Raymond, Canada

11:45 **Round table discussion with all speakers**

12:00 – 12:30 Delegate Cases

Main Lecture Hall

Moderators: *C. Papagiannaki, France; L. Valvassori, Italy*

12:00 **Ruptured wide-necked vertebrobasilar junction aneurysm in subclavian steal: successful staged endovascular treatment with trans-circulation stent-assisted coil embolization**
L. Pride, United States

12:10 **Treatment of ruptured intracranial aneurysms with Pipeline-Shield and Aspirin monotherapy**
J. Wenderoth, Australia

12:20 **Endovascular onyx embolization of collateral artery pseudoaneurysms associated with hemorrhagic moyamoya disease**
V. Gupta, United States

12:30 – 13:00 **Industry Symposium,** see page 29 **Main Lecture Hall**

13:00 – 14:00 **Lunch Break** **Exhibition Hall**

14:00 – 14:30 **Industry Symposium,** see page 29 **Main Lecture Hall**

14:30 – 15:30 **Joint Meeting with SNIS: Arteriovenous malformations** **Main Lecture Hall**

Moderators: *A. Arthur, United States; I. Saatci, Turkey*

14:30 **TOBAS update**
J.C. Gentric, France

14:40 **Cerebral Venous Anatomy**
F. Albuquerque, United States

15:00 **Venous approach: when and how I do it**
L. Spelle, France

15:20 **The venous route to BrainAVMs: TATAM, a RCT**
T. Darsaut, Canada

15:30 – 16:00 **Delegate Cases** **Main Lecture Hall**

Moderators: *S. Ansari, United States; S. Lamin, United Kingdom*

15:30 **The treatment of recurrent aneurysms with the Woven EndoBridge**
K. Alpay, Finland

15:40 **Treatment of very small cerebral aneurysms using the Optima Coil SystemTM**
A. Zauner, United States

15:50 **Italian Derivo Registry – final results**
L. Valvassori, Italy

16:00 – 16:30 **Coffee Break** **Exhibition Hall**

16:30 – 16:45 **Industry Symposium,** see page 29

16:45 – 18:30 Joint Meeting with SNIS — Main Lecture Hall

Flow diverters: more and how?

Moderators: *R. Klucznick, United States; L. Spelle, France*

16:45 **FD: Are they more dangerous than other techniques?**
P. Brouwer, Netherlands

16:55 **How to use a FD in MCA aneurysm and ACA aneurysm?**
I. Saatci, Turkey

17:05 **How to get enough preclinical evidence to decide for a single antiplatelet?**
D. Fiorella, United States

Aneurysms recurrence

Moderators: *L. Pride, United States; M. Szajner, Poland*

17:15 **What is a recurrence? Definition and imaging**
C. Taschner, Germany

17:25 **Risk factors for recurrences**
L. Pierot, France

17:35 **When to retreat a recurrence?**
E. Boccardi, Italy

17:45 **How to retreat a recurrence?**
R. De Leacy, United States

Chronic subdural hematomas

Moderators: *M. Aggour, France; D. Fiorella, United States*

17:55 **Physiopathology, anatomy, clinical presentation**
A. Gruber, Austria

18:05 **Surgery**
B. Welch, United States

18:15 **Ongoing studies**
A. Arthur, United States

18:30 – 19:30 ESMINT General Assembly — Main Lecture Hall

08:30 – 10:00 **EYMINT: Young Interventionalists@ESMINT Congress 2019: Stroke** — Gallieni 1+2, Level 2

Moderator: *A. Rouchaud, France*

08:30 **Studies & time management**
M. Gawlitza, France

08:50 **Mechanical thrombectomy and the Mobile Stroke Unit**
S. Roumia, Germany

09:10 **Which thrombectomy technique works best? A scientific review**
D. Behme, Germany

09:30 **Dissections and atheromas in mechanical thrombectomy**
T. Andersson, Sweden

10:30 – 13:00 **EYMINT: Young Interventionalists@ESMINT Congress 2019: Career & Research** — Gallieni 1+2, Level 2

Moderator: *A. Rouchaud, France*

10:30 **The past, present & future of interventional neuroradiology**
J. Moret, France

11:00 **How industry influences us?**
P. Brouwer, Netherlands

11:20 **Design, organizational aspects and first results of I-CAN**
R. Bourcier, France

11:50 **Aneurysm wall insights. Tips and tricks for aneurysm wall MRI**
M. Edjlali-Goujon, France

12:20 **Collaborative research I: the JENI group in France**
G. Boulouis, France

12:40 **Collaborative research II: the younicorn network in Germany**
V. Maus, Germany

13:00 – 14:00 **Lunch Break** — Exhibition Hall

14:00 – 16:00	**EYMINT:** **Young Interventionalists@ESMINT Congress 2019: Superficial vascular malformations, aneurysms & percutaneous**	**Gallieni 1+2, Level 2**
Moderator:	*A. Rouchaud, France*	
14:00	**Classification of superficial vascular malformations** *A. Bisdorff, France*	
14:30	**Biological optimization of endovascular vascular treatments for aneurysms** *A. Rouchaud, France*	
15:00	**Chronic subdural hematomas embolization: indications, results, tips and tricks** *N. Sourour, France*	
15:30	**Clinical research in Interventional Neuroradiology** *J. Raymond, Canada*	

08:00 – 09:15 Stroke Session with ESO — Main Lecture Hall

Moderator: *U. Fischer, Switzerland; P. White, United Kingdom*

08:00 **Results of last randomized studies**
J. Fiehler, Germany

08:10 **Is multimodal imaging useful? FRAME study and others**
J.M. Olivot, France

~~08:20~~ ~~**Type of anesthesia for thrombectomy: results of RCTs**~~
~~*N.N.*~~

08:~~30~~ **Childhood stroke and thrombolysis/thrombectomy**
U. Fischer, Switzerland

08:~~40~~ **Carotid stenting: to do or to avoid?**
Z. Kulcsar, Siwtzerland

08:~~50~~ **IV TPA or not?**
J. Gralla, Switzerland

09:00 **Discussion round**

09:15 – 09:45 Delegate Cases — Main Lecture Hall

Moderators: *S. Saleme, France; J.H. Buhk, Germany*

09:15 **One stop management with perfusion for transfer patients**
A. Brehm, Switzerland

09:25 **Code stroke alert – streamlining communications in acute stroke management**
H. M. Seah, China

09:35 **Impact of the support provided to the healthcare team during the emergency management of stroke by a dedicated application implemented within an innovative data management model: the CONNECT Project**
J. C. Gentric, France

09:45 – 10:00 Industry Symposium, see page 29 — Main Lecture Hall

10:00 – 10:30 Coffee Break — Exhibition Hall

10:30 – 11:45 Stroke Session with ESO: why can a thrombectomy fail?

Main Lecture Hall

Moderators: *C. Cognard, France; M. Ribo, Spain*

10:30 **Introduction: cases presentation of failure**
C. Cognard, France

10:40 **Is it because of the type of clot?**
T. Andersson, Sweden

10:50 **Is it because there is no clot? Another cause: ICAD, dissection, arteritis?**
D. Aguiar de Sousa, Portugal

11:00 **Physiopathology of coronary stenosis. Does plaque rupture exist in the brain circulation?**
M. Ribo, Spain

11:10 **Is it possible to anticipate by imaging that thrombectomy will fail?**
M. Moehlenbruch, Germany

11:20 **What to do in case of failure?**
C. Cognard, France

11:30 **Discussion round**

11:45 – 12:00 How I do it?

Main Lecture Hall

P. Machi, Switzerland; L. Renieri, Italy

12:00 – 12:30 Delegate Cases

Main Lecture Hall

Moderators: *A. Krajina, Czech Republic; S. Renowden, United Kigdom*

12:00 **Temporal trends for endovascular treatments in acute ischemic stroke in Italy**
V. Saia, Italy

12:10 **Atherosclerotic plaque characteristics and the risk of brain ischemia during internal carotid artery stenting**
J. Vrana, Czech Republic

12:20 **Acute thrombosis of MCA-bifurcation aneurysms as rare cause of acute stroke**
V. Anagnostakou, Switzerland

12:30 – 13:00 **Industry Symposium,** see page 29 **Main Lecture Hall**

13:00 – 14:00 **Lunch Break** **Exhibition Hall**

14:00 – 14:30 **Industry Symposium,** see page 29 **Main Lecture Hall**

14:30 – 14:45 **Award for the Best European Publication in JNIS** **Main Lecture Hall**

14:45 – 15:00 **Award Ceremony:**
ESMINT Diploma/Stroke Diploma **Main Lecture Hall**

T. Andersson, Sweden; P. Brouwer, Netherlands; M. Gawlitza, France; A. Krajina, Czech Republic; S. Renowden, United Kingdom

15:00 – 15:45 **Honorary Membership** **Main Lecture Hall**

P. Brouwer, Netherlands; S. Renowden, United Kingdom

Presentation by
J. Byrne, United Kingdom

15:45 – 16:15 **Special Lecture** **Main Lecture Hall**

A. Arthur, United States

Presentation by
A. Walters, United ~~Kingdom~~

16:15 – 16:30 **Coffee Break** **Exhibtion Hall**

16:30 – 16:45 **Industry Symposium,** see page 29 **Main Lecture Hall**

16:45 – 17:15 ESMINT's Future Talents — Main Lecture Hall

Moderators: *A. Biondi, France; T. Andersson, Sweden*

16:45 **Brain dural arteriovenous fistula Cognard Type I leading to an acute cerebral sinus vein thrombosis in a 39 year old female patient**
C. Yüksel, Germany

16:55 **Post-traumatic spinal dural arteriovenous fistula (SDAVF) at the cranio-cervical junction: case and review of the literature**
C. Hall, United Kingdom

17:05 **Thrombectomy in children why not?**
Z. Nedeljkovic, Serbia

17:15 – 18:30 Going Beyond the Pale: cases discussion — Main Lecture Hall

Moderators: *T. Jovin, United States; J.M. Olivot, France*

17:15 **Low NIHSS/ M1 occlusion: immediate or rescue thrombectomy?**
V. Costalat, France; C. Arquizan, France

17:30 **Large ASPECT less than 6 hours and above 6 hours?**
U. Fischer Switzerland; J. Gralla, Switzerland

17:45 **Above M1 occlusion and low NIHSS?**
M. Bendszus, Germany; S. Nagel, Germany

18:00 **How do I decide to do or not to do a thrombectomy in late or unwitness stroke?**
T. Jovin, United States

18:15 **Discussion Round**

08:30 – 09:45 **ESMINT Session** **Main Lecture Hall**

Moderators: *F. Turjman, France, E. Ciceri, Italy*

08:30 **Radial approach: should we do it more often? Always?**
K. Kadziolka, Poland

08:45 **My best case. My worst case**
A. Biondi, France; E. Boccardi, Italy; S. Lamin, United Kingdom; J. Moret, France; T. Patankar, United Kingdom

09:45 – 10:00 **Industry Symposium,** see page 29 **Main Lecture Hall**

10:00 – 10:30 **Coffee Break** **Exhibition Hall**

10:30 – 11:00 **Regulatory: will it be easier to get the FDA approval than the CE one?** **Main Lecture Hall**

B. Akra, Germany; S. Sorrel, France

11:00 – 11:45 **Best European Studies** **Main Lecture Hall**

Moderators: *J. Fiehler, Germany; Z. Kulcsar, Switzerland*

11:00 **DIRECT – MT**
P. Yang, China

11:15 **ARETA (Analysis of Recanalization after Endovascular Treatment of intracranial Aneurysm)**
L. Pierot, France

11:30 **MR Clean II Trials: an update**
A. van Es, Netherlands

11:45 – 12:20 ESMINT Session — Main Lecture Hall

11:45 **Women in Interventional Neuroradiology**
A.-C. Januel, France

12:00 **Neuroradio-ecology**
C. Cognard, France

12:20 – 13:10 New Technology Symposia, see page 31 — Main Lecture Hall

13:10 – 14:00 Lunch Break — Exhibition Hall

14:00 – 16:00 Morbimortality Corner, Delegate Cases — Main Lecture Hall

Moderator: *E. Boccardi, Italy; J.C. Gentric, France*

14:00 – 14:10 **Delayed symptomatic coil migration after BAC (Balloon assisted coiling) of intracranial aneurysm: one case report**
S. Sicignano, Italy

14:10 **Drug Eluting balloons for the treatment of symptomatic intracranial atherosclerosis: initial experience with Elutax3Neuro during the treatment of stroke patients with urgent mechanical thrombectomy**
A. Moreno, Spain

14:20 **Emergent intracranial stenting after mechanical thrombectomy in artherosclerotic large vessel occlusion**
J. S. Oh, Korea

14:30 **Intracranial mechanical thrombectomy using a proximal balloon guide catheter via a trans-radial access**
A. Brehm, Switzerland

14:40 **Two identical cases of rare spinal arteriovenous fistula Anson-Spetzler IVc**
J. Vrana, Czech Republic

14:50 **Asymptomatic delayed distal migration of stent after stent-assisted coil embolization**
S. Q. Park, Korea

15:00 **Endovascular treatment of traumatic brain injury related to gun shot wound**
L. F. Checca, Mexico

15:10 **Complex scalp AV fistulas – case report**
B. Ramgren, Sweden

15:20 **Angioplasty using drug-coated balloon in symptomatic intracranial high-grade stenosis**
P. Gruber, Switzerland

15:30 **Columbus ®, a novel steerable microwire with a remotely controlled deflectable tip for simplified superselective cerebral navigation**
M. Holtmannspoetter, Germany

15:40 **Case of recurrent artery of Heubner aneurysm masquerading as a partially thrombosed A1 aneurysm radiologically**
J. Khoo, Australia

15:50 **Challenges of stroke treatment – when stenting a severe internal carotid artery stenosis is not enough**
J. M. Amorim, Portugal

1 – Acute ischemic stroke

EP-01* Mini craniotomy, trans-sylvian, trans insular removal of hypertensive basal ganglia Haematomas
P. Hwang (Singapore, SG)

EP-02* One stop management with perfusion for transfer patients
A. Brehm, I. Maier, T. Ioannis, E. Hanna Josephin, Y. Pengfei, J.-M. Liu, J. Liman, M.-N. Psychogios (Basel, CH; Göttingen, DE; Changhai, CN)

EP-03* Code stroke alert – streamlining communications in acute stroke management
H.M. Seah, M. Burney, M. Phan, W. Jamin, D. Shell, K. Zhou, O. Brooks, B. Coulton, J. Maingard, J. Tang, G. Yazdabadi, C. Barras, H.K. Kok, R. Chandra, V. Thijs, D.M. Brooks, H. Asadi (Adelaide, Clayton, Heidelberg, Melbourne, Sydney, AU)

EP-04* Impact of the support provided to the healthcare team during the emergency management of stroke by a dedicated application implemented within an innovative data management model: the CONNECT Project
J.-C. Gentric, J. Ognard (Brest, FR)

EP-05* Temporal trends for endovascular treatments in acute ischemic stroke in Italy
V. Saia, G. Pracucci, D. Toni, S. Mangiafico (Florence, Pietra Ligure, Rome, IT)

EP-06* Atherosclerotic plaque characteristics and the risk of brain ischemia during internal carotid artery stenting
J. Vrána, F. Charvát, D. Netuka, D. Školoudík, A. Krajina, F. Cihlář (Hradec Králové, Ostrava, Praha, Ústí nad Labem, CZ)

EP-07* Acute thrombosis of MCA-bifurcation aneurysms as rare cause of acute stroke
V. Anagnostakou, S. Husain, R. Hunyadi, S. Winklhofer, Z. Kulcsar (Zurich, CH)

EP-08* Thrombectomy in children why not?
I. Vukasinovic, Z. Nedeljkovic (Belgrade, RS)

EP-09* Challenges of stroke treatment – when stenting a severe internal carotid artery stenosis is not enough
M. Santos, S. Xavier, M. Neves, A. Silva, J.M. Amorim (Braga, PT)

EP-10* Intracranial mechanical thrombectomy using a proximal balloon guide catheter via a trans-radial access
V. Maus, H. Styczen, A. Brehm, M.N. Psychogios (Bochum, Göttingen, DE; Basel, CH)

EP-11* Angioplasty using drug-coated balloon in symptomatic intracranial high-grade stenosis
P. Gruber, J. Berberat, T. Kahles, J. Anon, M. Diepers, K. Nedeltchev, L. Remonda (Aarau, CH)

EP-12* Drug Eluting balloons for the treatment of symptomatic intracranial atherosclerosis: initial experience with Elutax3Neuro during the treatment of stroke patients with urgent mechanical thrombectomy
A. Moreno (Madrid, ES)

* Case presentation in main lecture hall.

EP-13* **Emergent intracranial stenting after mechanical thrombectomy in artherosclerotic large vessel occlusion**
J.-S. Oh (Choenan City, KR)

EP-14 **Direct access of the internal carotid (ICA) as a rescue option for intracranial thrombectomy**
V. Anagnostakou, R. Terziev, A. Golubovic, Z. Kulcsar (Zurich, CH)

EP-15 **The effectiveness of Marksman microcatheters for the aspiration of distal thrombus**
S.W. Ha, H.S. Kim (Gwangju Metropolitan City, KR)

EP-16 **Recanalisation of large vessel occlusions (LVO) through intravenous thrombolysis (IVT)**
C. Serna Candel, H. Henkes (Stuttgart, DE)

EP-17 **Successful carotid artery stenting in patients with aortic dissection**
H.G. Kang, S.W. Ha (Gwangju, Jeonju, KR)

EP-18 **Tips how to shape ACE68 for successful thrombectomy with ADAPT (a direct aspiration first pass technique)**
S. Kasakura, S. Kohyama, S. Iihoshi, E. Tsukagoshi (Hidaka, JP)

EP-19 **Trans-brachial approach in neurointervention; when & how**
H.S. Kim (Gwangju, KR)

EP-20 **Multiple paradoxical embolism from external iliac vein compression by huge leiomyoma**
K. Lee, J.H. Kim, H.Y. Jung (Seoul, KR)

EP-21 **Results of endovascular thrombectomy of stroke depending on the degree of collateral blood flow of the brain**
E. Molokhoev, N. Zakaryan, A. Shelesko, S. Ustinskaya, A. Davtyan, I. Sharinova, V. Kirakosyan, A. Pankov, M. Akopova-Tsvetkova (Moscow, RU)

EP-22 **Risk factors of ipsilateral, contralateral and vertebrobasilar microembolic infarctions following carotid artery stenting**
D.W. Park, T.Y. Kim (Guri, KR)

EP-23 **Multimodal approach for distal thrombectomy in acute anterior circulation stroke. Case report**
S. Rudnicka (Aalborg, DK)

EP-24 **Evaluation of AI-powered identification of LVOs in a Comprehensive Stroke Center**
A. Yahav-Dovrat, G. Merhav, E. Abergel, A. Eran, I. Lankri, R. Sivan-Hoffmann (Haifa, IL)

EP-25 **DEB for endovascular treatment of intracranial stenosis in child age**
K. Zelenak (Martin, SK)

* Case presentation in main lecture hall.

2 – Aneurysm therapy

EP-26* Surgical strategies in the treatment of complex intracranial aneurysms
M. Gmeiner, A. Gruber (Linz, AT)

EP-27* Five cases of dissecting aneurysms in children. Successful treatment with flow-diverters
M. Piano, L. Valvassori, E. Boccardi, A. Cervo (Milano, Monza, IT)

EP-28* Ruptured wide-necked vertebrobasilar junction aneurysm in subclavian steal: successful staged endovascular treatment with trans-circulation stent-assisted coil embolization
G.L. Pride, R. d' Oliveira Sillero, B. Welch (Dallas, US)

EP-29* Treatment of ruptured intracranial aneurysms with Pipeline-Shield and Aspirin monotherapy
J. Wenderoth, A. Cheung, N. Manning (Sydney, AU)

EP-30* Endovascular onyx embolization of collateral artery pseudoaneurysms associated with hemorrhagic moyamoya disease
V. Gupta (Vero Beach, US)

EP-31* The treatment of recurrent aneurysms with the Woven EndoBridge
K. Alpay, R. Rautio, M. Sinisalo (Turku, FI)

EP-32* Treatment of very small cerebral aneurysms using the Optima Coil SystemTM
A. Zauner, R. Taylor (Santa Barbara, US)

EP-33* Italian Derivo Registry – final results
L. Valvassori, M. Piano, A. Sgoifo, E. Boccardi (Milano, Monza, IT)

EP-34* Delayed symptomatic coil migration after BAC (Balloon assisted coiling) of intracranial aneurysm: one case report
C. Sicignano, G. La Tessa, G. Sirabella, V. Piscitelli, M. Tecame (Napoli, IT)

EP-35 Prediction of thin-walled areas of unruptured cerebral aneurysms through comparison of normalized hemodynamic parameters and intraoperative images
K.-C. Cho, J.-J. Kim, J.H. Choi, J.H. Oh, Y.B. Kim (Ansan, Incheon, Seoul, KR)

EP-36 Stent-assisted modified coil protection technique for bilobulated aneurysm
H.J. Choi, J.P. Jeon (Chuncheon, KR)

EP-37 Re-rupture of a "successfully treated" dissecting ICA aneurysm
U.M. Ciochon, G. Gal, G. Benndorf (Copenhagen, Odense, DK)

EP-38 Giant basilar artery bifurcation aneurysm
F. Dorn, H. Henkes (Munich, Stuttgart, DE)

EP-39 Efficiancy of tcMEP monitoring in the clipping of unruptured intracranial aneurysms
J. Härtl (München, DE)

* Case presentation in main lecture hall.

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Please join us in the main auditorium
for a Stryker sponsored symposium

Early experience and clinical follow up of the Surpass Evolve™ Flow Diverter

Thursday, 5 September, 2019
14:00

ESMINT 2019
Nice, France

Speakers

Vitor Mendes Pereira, MD MSc

Professor of Medical Imaging and Surgery
Toronto Western Hospital – University Health Network
University of Toronto
Toronto, Canada

Saleh Lamin, MD FRCR MRCP MSs

Consultant in Neurointervention
University Hospital Birmingham
Birmingham, United Kingdom

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EP-40 Treatment of ruptured fusiform aneurysm of distal ICA with poor Acom and Pcom
C.K. Jang, B.M. Kim (Seoul, KR)

EP-41 Endovascular coil embolization for treatment of distal internal carotid artery aneurysm presenting trigeminal neuralgia
D. Jeong, Y. Lim (Hwaseong-Si, Suwon-si, KR)

EP-42 Endovascular treatment of recurred aneurysm after stent-assisted coiling with flow diverter stenting
J.H. Kim, B.M. Kim (Seoul, KR)

EP-43 Early postoperative angiography after clipping of intracranial aneurysms: clinical value of 3-dimensional angiography and predisposing factors for aneurysm remnants
J.-J. Kim, K.-C. Cho, C.-K. Jang, W.S. Jung, S.H. Suh, Y.B. Kim (Incheon, Seoul, Suwon, KR)

EP-44 Saccular or dissecting aneurysms involving the basilar trunk: endovascular treatment and clinical outcomes
J.-J. Kim, K.-C. Cho, P. Jeon, B.M. Kim, S.M. Lim, W.S. Jung, S.H. Suh (Incheon, Seoul, Suwon, KR)

EP-45 Flow – T stenting for bifurcation aneurysms
H.L.D. Makalanda, K. Wong, P. Bhogal (London, UK)

EP-46 Stent assisted coil embolization on down-the-barrel view with spring-shaped microcatheter in patient with M1 ultra-wide necked circumferential aneurysm
J.S. Park (JeonJu, KR)

EP-47 Ruptured Intracranial aneurysms treated with flow diverter devices in a single center
M. Sinisalo (Turku, FI)

EP-48 Minimally invasive surgical strategy for unruptured bilateral small middle cerebral aneurysms: our experience with single-step surgery
K. Suzuki (Hidaka-City, JP)

EP-49 Atypical presentation and two stage coiling of a large dysplastic anterior communicating aneurysm
F.R.A. Van den Bergh, T. Van der Zijden, M. Voormolen (Edegem, BE)

3 – Brain AVM

EP-50 Endovascular treatment of brain AVM using adenosine-induced asystole to control nBCA injection
A. Kemmling, M. Aguilar Pérez, M. Al Matter, V. Hellstern, H. Henkes (Münster, Stuttgart, DE)

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* Acute Ischemic Stroke

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4 – BrainDural fistulas

EP-51* Brain dural arteriovenous fistula Cognard Type I leading to an acute cerebral sinus vein thrombosis in a 39 year old female patient
C. Yüksel, S. Kutschke, M. Wiesmann, A. Riabikin, C. Kuhl, A. Mpotsaris (Aachen, DE)

EP-52 Endovascular trapping of direct carotid-cavernous fistula
S. Im (Seoul, KR)

5 – Spinal vascular malformations

EP-53* Post-traumatic spinal dural arteriovenous fistula (SDAVF) at the cranio-cervical junction: case and review of the literature
C. Hall, N. Rane (London, UK)

EP-54* Two identical cases of rare spinal arteriovenous fistula Anson-Spetzler IVc
J. Vrána, F. Charvát, T. Belšan, V. Beneš, D. Netuka, R. Pádr, M. Tichý, M. Roček (Prague, Praha, CZ)

6 – Complications

EP-55* Asymptomatic delayed distal migration of stent after stent-assisted coil embolization
S.Q. Park (Seoul, KR)

EP-57 STA-MCA bypass due to MCA occlusion after AVM embolization
S.K. Park (Seoul, KR)

7 – Imaging

EP-58* Case of recurrent artery of Heubner aneurysm masquerading as a partially thrombosed A1 aneurysm radiologically
J. Khoo, B. Khoo, A. Alalade, J. Webster (Brisbane, AU)

EP-59 Novel rapid imaging protocol of the bilateral MCA territories for thrombectomy in acute ischaemic stroke by old-model 320-row area detector CT
T. Mori, K. Yoshioka (Kamakura, JP

8 – Miscellaneous

EP-60* Endovascular treatment of traumatic brain injury related to gun shot wound
L.F. Checca, J.A. Morales, A. Marinez Ponce De Leon (San Juan de Pasto, CO; Monterrey, MX)

EP-61* Columbus ®, a novel steerable microwire with a remotely controlled deflectable tip for simplified superselective cerebral navigation
M. Holtmannspötter, J. Weber (Nuremberg, DE; Copenhagen, DK; St. Gallen, CH)

* Case presentation in main lecture hall.

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SIEMENS Healthineers

EP-62* **Complex scalp AV fistulas – case report**
B. Ramgren (Lund, SE)

EP-63 **Endovascular treatment of dissecting aneurysms of precerebral arteries**
K. Orlov, V. Berestov, P. Seleznev, N. Strelnikov, M. Demyanovskaya (Novosibirsk, RU)

EP-64 **Rete middle cerebral artery anomalies: a unifying name, case series, and literature review**
K.-C. Cho, J.-J. Kim, C.-K. Jang, W.S. Jung, J.-Y. Joo, Y.B. Kim (Incheon, Seoul, Suwon, KR)

EP-66 **Double origin of the ophthalmic artery**
M. Almatter, M. Aguilar Perez, V. Hellstern, C. Serna Candel, O. Ganslandt, H. Henkes (Stuttgart, DE)

EP-68 **Linear oblique craniectomy: utilizing anatomy to ease subdural grid implantation**
C. Howard, N. Aboelnazaar, N. Salem, L. Willets (Calgary, CA)

EP-69 **Minimally invasive non-endoscopic carpal tunnel decompression**
P. Hwang, C.L. Ho (Singapore, SG)

EP-70 **Subclavian steal syndrome; a case report and review of literatures**
D.K. Kim (Gwangju, KR)

EP-71 **Surgical exposure of the vertebral artery for endovascular access in hybrid operating room**
J.Y. Lee, J.H. Park (Seoul, KR)

EP-72 **Spontaneous carotid cavernous fistula secondary to rupture of primitive persistent trigeminal artery aneurysm**
S.T. O'Reilly, I. Rennie (Belfast, UK)

EP-73 **Usefulness of middle meningeal embolization to prevent recurrent spontaneous chronic subdural hemorrhage**
S.Q. Park, H.-R. Park (Seoul, KR)

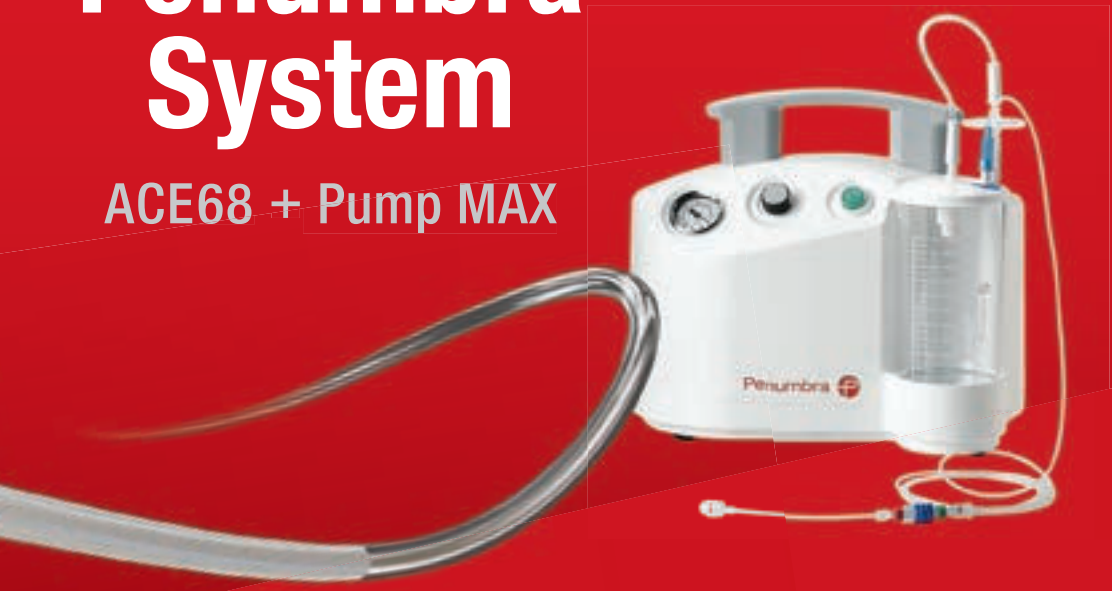
EP-74 **Minimal craniotomy and hematoma evacuation in the emergency room for traumatic intracranial hematoma: 39 patients**
H. Watanabe (Hidaka City, JP)

EP-75 **Profuse epistaxis after severe head trauma**
G. Wong (Hong Kong, HK)

* Case presentation in main lecture hall.

Penumbra System

ACE68 + Pump MAX



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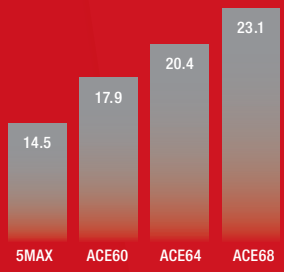
Thrombus Removal Force (TRF) = Catheter Tip Area × Vacuum Level



a. Tests performed and data on file at Penumbra, Inc. Bench test results may not be indicative of clinical performance.

Prior to use, please refer to the Instructions for Use for complete product indications, contraindications, warnings, precautions, potential adverse events, and detailed instructions for use.

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Penumbra Pump MAX – Intended Use
The Penumbra Pump MAX is intended as a vacuum source for the Penumbra Aspiration Systems.

Product availability varies by country. Please contact your local Penumbra representative for more information.

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Penumbra

INDUSTRY SYMPOSIA

Wednesday, 4 September 2019	Main Lecture Hall
09:45 – 10:00	**New imaging capabilities in the neuro interventional suite** *P. Mordasini, Switzerland*
12:30-13:00	**Redefining Flow Diversion with Pipeline™ Flex with Shield™ Technology: release of new clinical data** *I. Szikora, Hungary*
14:00 – 14:30	**FRED Italian Registry – Results** *L. Valvassori, Italy* **Clinical Evaluation of WEB 17 in Intracranial Aneurysms – CLEVER Study** *C. Cognard, France*
16:30 – 16:45	**Early follow ups in flow diversion – what we learnt** *S. Schob, Germany*

Thursday, 5 September 2019	Main Lecture Hall
09:45 – 10:00	**Embolisation with hybrid coils – a SMART coil experience** *M. Psychogios, Switzerland*
12:30 – 13:00	**Outcomes and implications of FPE post ARISE2** *T. Andersson, Sweden* **Per-Pass Analysis of thrombus composition in patients with acute ischemic stroke** *J. Thornton, Ireland*
14:00 – 14:30	**Early experience and clinical follow up of the Surpass Evolve Flow Diverter** *V. Mendes Pereira, Canada* *S. Lamin, United Kingdom*
16:30 – 16:45	**Ospedale Niguarda Catchview experience** *M. Piano, Italy*

Friday, 6 September 2019	Main Lecture Hall
09:45 – 10:00	**Innovation in flow diversion: a snapshot of p48 MW HPC** *Moderator: C. Cognard, France* *Speaker: L. Pierot, France*

HPC

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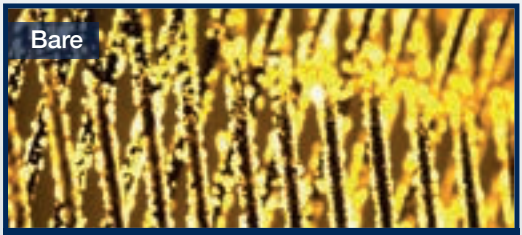
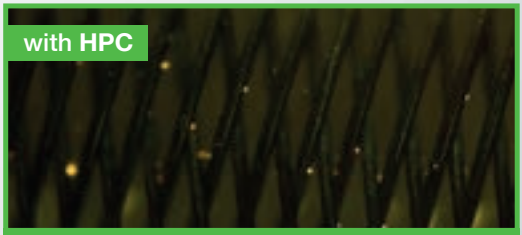
p48 MW Flow Modulation Device now available with **HPC** technology

HPC prevents triggering of the clotting cascade and thus reduces the risk of thrombus formation on phenox neurovascular implants.



Platelet adhesion after human blood exposure on the non-coated device.



Significantly reduced platelet adhesion after human blood exposure on the HPC-coated device.

Data on File

The **p48 MW HPC** Flow Modulation Device and **pCONUS HPC** Bifurcation Aneurysm Implant have received the CE Mark (CE 0297). They are not approved for sale nor are they available for sale or use in the United States.

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NEW TECHNOLOGY SYMPOSIA

Friday, 6 September 2019	Main Lecture Hall
12:20 – 12:30	**React™ Aspiration Catheters: first experience**
12:30 – 12:40	**Extra-small dual-lumen micro-balloon catheters can improve endovascular embolization: an experimental in vivo and in vitro study** *M. Mohlenbruch, Germany*
12:40 – 12:50	**AR Baltic Medical is presenting the first cases with N-Elutax "3" the only CE certificated DCB for intracranial treatment of ICAD.** **Drug coated Balloon forintra-cranial stenosis, a single center experience** *L. Istvan, Hungary* **The need of Drug coated Balloons for ASIAN Population with intra-cranial stenosis** *S. Singh, Nepal*
12:50 – 13:00	**New applications of braiding technology for neurovascular interventions** *H. Nordmeyer, Germany*
13:00 – 13:10	**Thrombectomy Power with the new Penumbra JET and ENGINE Aspiration Platform** *D. F. Frei, United States*

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12:30 -1:00 pm Thursday Sept 5th

Speakers:

Prof. Tommy Andersson
AZ Groeninge
Kortrijk, Belgium

Dr. John Thornton
Beaumont Hospital
Dublin, Ireland

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If you forget your badge, we can reprint it for a deposit of € 30. The deposit will be returned once you show that you still have both badges, of which we will keep one. If you lost your badge or do not show both badges anymore, € 30 will be charged.

Cloakroom

A cloakroom is available in the congress centre next to the registration area during the registration opening hours.

CME Accreditation & Certificates

The 11th ESMINT Congress is accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) to provide the following CME activity for medical specialists. The EACCME® is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.
The 11th Congress of the European Society of Minimally Invasive Neurological Therapy is designated for a maximum of, or up to, 19 European CME credits (ECMEC) by the EACCME.

Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.
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CME Certificates of Attendance – CME certificates will be delivered after the congress via e-mail only after completing an online evaluation. This process will take 5-10 minutes to complete and all responses will be collected anonymously. Participants will receive a link to the online evaluation and credit claiming after the congress.
Printed certificates of attendance will not be available on-site.

Coffee Breaks

Morning and afternoon coffee breaks are included in the registration fee and are served in the exhibition area. Please refer to the "Programme Overview" for the times.

ESMINT

Throughout the meeting, ESMINT staff will be available at the ESMINT booth to answer any questions you may have or to deal with any matters concerning the ESMINT Society. The ESMINT General Assembly takes place on Wednesday, 4 September, 18:30 – 19:30h in the main lecture hall.

Evaluation

After the congress, you will receive an e-mail with a request to fill in an online survey. Please take a moment to complete the questionnaire. Your answers will be used to evaluate the scientific content of the programme in order to continuously improve it for future meetings.

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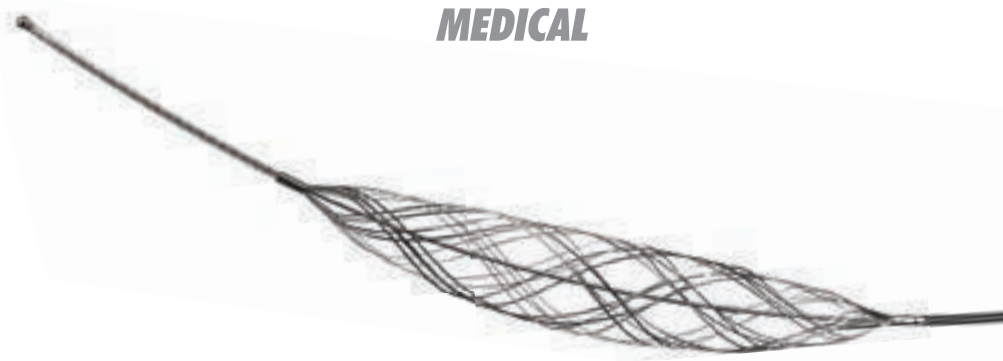

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The congress organisers cannot accept liability for personal injuries sustained, or for loss or damage of property belonging to conference participants, either during, or as a result of the meeting. Please check the validity of your own insurance.

Language

The official language of the congress is English. No simultaneous translation will be provided. The national language of France is French.

Lunch

Lunch will be served in the exhibition area and is included in the registration fee. Please refer to the "Programme Overview" for the times.

Photography

During the congress photographs will be taken. This serves the purpose of publication on the website and/or on social media platforms of the organizer. It may hereby be possible that persons present are also photographed in a way that they can be identified. The legal basis for photographing is Article 6, Paragraph 1, lit. f GDPR, the organizer's legitimate interest is to publicly document the event.

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Tuesday,	3 September 2019	17:00 – 19:00
Wednesday,	4 September 2019	07:00 – 18:30
Thursday,	5 September 2019	07:30 – 18:30
Friday,	6 September 2019	08:00 – 16:00

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Social Cocktail Reception

ESMINT is pleased to invite you to the cocktail reception on Thursday, 5 September 2019.

Time 20:00 – 02:00
Location Le Galet, 3 Prom. des Anglais, 06200 Nice

All ESMINT Congress 2019 delegates are invited to join the Social Cocktail Reception.
Please bring your badge to the dinner in order to get access.

Speakers' Service Centre (SSC)

The Speakers' Service Centre (SSC) is connected to all lecture halls and is located on level3, next to the main lecture hall. All speakers are asked to **hand in their PowerPoint or Keynote presentations at the SSC *at least 1 hour before*** the start of their lecture.
At the SSC speakers can preview their slides and make changes, if needed.

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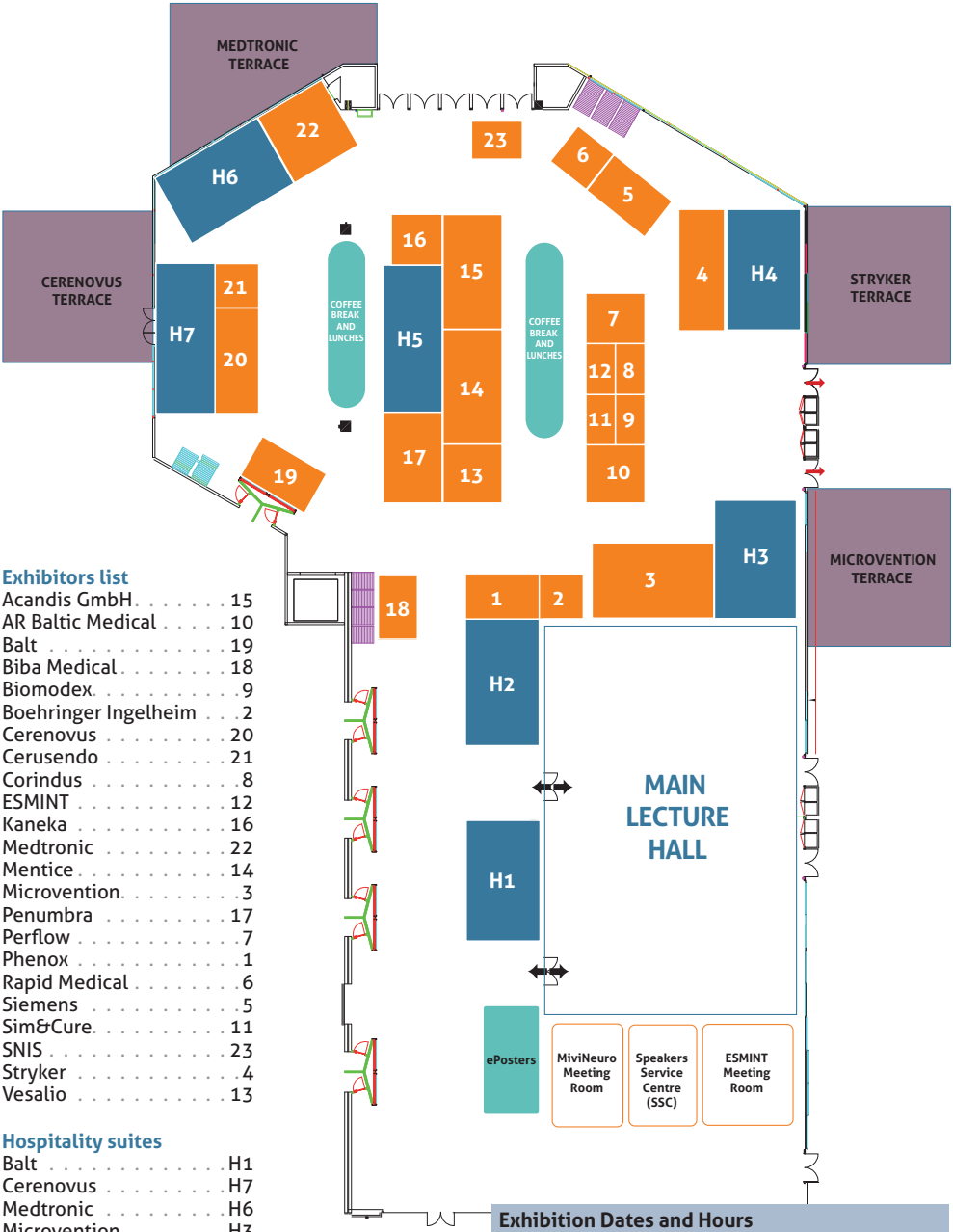
EXHIBITON FLOOR PLAN



Exhibitors list

Acandis GmbH	15
AR Baltic Medical	10
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Biba Medical	18
Biomodex	9
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Cerenovus	20
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Microvention	3
Penumbra	17
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Hospitality suites

Balt	H1
Cerenovus	H7
Medtronic	H6
Microvention	H3
Penumbra	H5
Phenox	H2
Stryker	H4

Exhibition Dates and Hours

Wednesday,	4 September 2019	07:30 – 18:30
Thursday,	5 September 2019	07:30 – 18:30
Friday,	6 September 2019	08:00 – 16:00

ESMINT

12th Congress 2020

12th Congress of the
European Society of
Minimally Invasive Neurological Therapy

SAVE THE DATE

9 – 11 September 2020

Acropolis Convention Centre – Nice, France

www.esmint.eu

FOR YOUR NOTES

MEDTRONIC INDUSTRY SYMPOSIUM REDEFINING FLOW DIVERSION PIPELINE™ FLEX WITH SHIELD TECHNOLOGY™: RELEASE OF NEW CLINICAL DATA

Wednesday 4th September 2019

12.30 – 13.00

Conference Room
Acropolis Convention Center
Nice, France

Pipeline™ Flex with Shield Technology™ – Main results from the SHIELD Study: An International multicenter post market study of treated intracranial aneurysms

Dr. Hal Rice
Gold Coast, Australia

6-month results of the first 114 patients treated with Pipeline™ Flex with Shield Technology™ in INSPIRE

Prof. Laurent Spelle
Paris, France

INSPIRE: A unique surveillance platform to collect clinical data on safety and efficacy and to generate therapy evidence for hemorrhagic and acute ischemic stroke therapies

Prof. István Szikora
Budapest, Hungary

Introduction and Moderator

Prof. István Szikora
Budapest, Hungary

The Pipeline™ Flex embolization device with Shield Technology™ is intended for endovascular embolization of cerebral aneurysms.

See the device manual for detailed information regarding the instructions for use, indications, contraindications, warnings, precautions, and potential adverse events. For further information, contact your local Medtronic representative and/or consult the Medtronic website at **medtronic.eu**.

Les mentions obligatoires sont à votre disposition sur demande.

Les informations contenues dans ce document sont destinées au public international de professionnels de santé assistant au ESMINT du 4 au 6 septembre 2019 et ne sont pas spécifiquement destinées aux professionnels de santé exerçant en France.

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Surpass Evolve™ Flow Diverter

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