It is what we think we know already that often prevents us from learning.

Claude Bernard

6th Joint meeting with EANS on 6 September 2018

Session in collaboration with SNIS on 6 September 2018

Stroke session with ESO on 7 September 2018

2nd Symposium for angiosuite personnel on 6 September 2018

Final Programme

www.esmint.eu
Editorial

10th Anniversary ESMINT Congress 2018, promoting education and improving communication

It is the twilight of summer on the French Riviera: the temperature is ideal; the amazing panorama and the magic moments of Nice in September have arrived!

– And ESMINT’s 10th edition is taking place! –

The Europe of Interventional Neuroradiology along with Vascular Neurology and Neurosurgery converge in Nice for the Annual ESMINT Meeting.

Already 10 years old! And we witness how interest grows, not only in ESMINT itself, but in the range of topics that were covered. In 2009, there was a feeling in the air that we were at the beginning of one of the best times in the evolution of our specialty. We are now faced with one of our greatest challenges: the need to offer the highest quality of very complex treatments to an increasing number of patients while at the same time meeting the needs of a society that is more and more demanding in terms of evidence, data, results and costs.

Each year our meeting gains in maturity and experience, and the 10th edition promises to provide you with the kind of information and education you need to evolve in your practice. This year at ESMINT, we hope having teasing discussions between different specialists with different backgrounds and different ways of thinking, as well with your best clinical cases.

During the past 10 years, our industry partners were very much present at ESMINT, listening to our unmet needs and trying to respond. We are proud of the collaboration we have built together.

Interaction between speakers and the audience will once again be a key feature of the meeting, with open discussions aimed at better understanding the disease processes and available therapeutic options.

We always keep in mind that our only goal is to improve the quality of care we offer to our patients. Your presence and participation will be, as always, the key in our work, and we wish you the best ESMINT meeting as possible.

Pr Laurent SPELLE
Pr Francis TURJMAN

Committees

President of the 10th ESMINT Congress
Laurent SPELLE, France

ESMINT Congress Scientific Committee
Mohamed AGGOUR, France
Blaise W. BAXTER, United States
Patrick BROUWER, Sweden
Jens FIEHLER, Germany
Urs FISCHER, Switzerland
Andreas GRUBER, Austria
Laurent PIEROT, France
Adriaan VAN ES, The Netherlands
Wim VAN ZWAM, The Netherlands

Vice-President of the 10th ESMINT Congress
Francis TURJMAN, France

ESMINT Executive Board
President: Laurent PIEROT, France
General Secretary: Patrick BROUWER, Sweden
Treasurer: Jens FIEHLER, Germany
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* European Technicians in Minimally Invasive Neurological Therapy (2nd Symposium for angiosuite personnel)
## Programme at a Glance

### Friday, 7 September 2018

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<td>ESMINT Diploma Award Ceremony p. 14</td>
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<td>ESMINT Stroke Fellowship Programme &amp; EXMINT p. 14</td>
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<td>Social Cocktail Dinner p. 37</td>
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### Saturday, 8 September 2018

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08.30  Opening of the 10th Anniversary ESMINT Congress  
Main Lecture Hall

L. Pierot, France

08.30 – 09.30  Joint Meeting with EANS Vascular Section  
Main Lecture Hall

**Moderators:**  
P. Vajkoczy, Germany; M. Cronqvist, Sweden

08.30  Debate: Is MCA bifurcation location a reason to treat an aneurysm surgically?  
Pros  
B. van der Zwan, The Netherlands

Cons  
S. Cekirge, Turkey

09.00  Debate: Do you continue to treat unruptured bAVM?  
Pros  
T. Meling, Norway

Cons  
J. Fiehler, Germany

08.30 – 10.00  ETMINT Session*  
ETMINT Lecture Hall (Gallieni 1)

**Moderators:**  
C. Wetzel, Germany; A. Mastenbroek, The Netherlands

08.30  Opening  
A. van Es, The Netherlands; A. Mastenbroek, The Netherlands

08.40  From stroke onset to vessel puncture  
A. Holmberg, Sweden

09.00  The safety of tPA administration in the CT suite  
M. Wahley, United States

09.20  Stroke imaging CT vs MRI  
M.A.A. van Walderveen, The Netherlands

09.40  Pseudo live case stroke  
J. Buhk, Germany

* European Technicians in Minimally Invasive Neurological Therapy  
(2nd Symposium for angiosuite personnel)
Thursday, 6 September 2018

09.30 – 10.00  Delegate Cases  
**Moderators:** T. Meling, Norway; F. Turjman, France

09.30  **EP-95***  
**Traumatic anterior spinal arteriovenous fistula**  
K. Mahady, Australia

09.40  **EP-91***  
**Treatment of unusual arteriovenous fistula sequela of prior endarterectomy**  
A. Alhajeri, United States

09.50  **EP-92***  
**First-in-human procedure of intra-arterial drug delivery to glioblastoma under real-time MRI guidance**  
M. Zawadzki, United States

10.00 – 10.30  Coffee Break

10.30 – 12.00  Joint Meeting with EANS Vascular Section  
**Moderators:** A. Gruber, Austria; J. De Vries, The Netherlands

10.30  **Lecture:**  
Management and clinical consequences of per-operative rupture of an aneurysm  
Neurosurgical Point of view  
P. Vajkoczy, Germany

10.45  **Debate:**  
Neurosurgery under anti-platelet therapy  
Yes  
M. Niemela, Finland

No  
A. Gruber, Austria

11.15  **Invited Lecture:**  
Place of neurosurgery in the management of intracranial dural vascular malformation  
M. Niemela, Finland

11.45  **How would I do it?**  
P. White, United Kingdom  
A. Rouchaud, France
### 10.30 – 13.00  ETMINT Session*  
ETMINT Lecture Hall (Gallieni 1)

**Moderators:**  
H. Gennis, Sweden; K. Jones, Australia

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<td>The role of the nurse and paramedic in acute stroke</td>
<td>M. Wahley, United States</td>
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<td>Pseudo live case aneurysm</td>
<td>J. Bukh, Germany</td>
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<td>What has to be done the 48HRS after IAT</td>
<td>A. Holmberg, Sweden</td>
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<td>Follow up stroke patient</td>
<td>E. Pietersen, The Netherlands</td>
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<td>Stroke workflow in different countries</td>
<td>K. Jones, Australia</td>
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<td>F. Menu, France</td>
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<td>A. Mastenbroek, The Netherlands</td>
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<td>IAT: The materials I use for thrombectomy</td>
<td>A. van Es, The Netherlands</td>
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### 12.00 – 12.30  Delegate Cases  
Main Lecture Hall

**Moderators:**  
M. Niemela, Finland; A.-C. Januel, France

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<td>12.00</td>
<td>EP-71* The domino effect: A lesson in bail-out strategies during treatment of a complex, ruptured mid-basilar aneurysm</td>
<td>G. Colby, United States</td>
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<tr>
<td>12.10</td>
<td>EP-93* Design of an Endovascular Transdural Cerebrospinal Fluid Shunt Implant to Mimic Arachnoid Granulation Function</td>
<td>C. Heilman, United States</td>
</tr>
<tr>
<td>12.20</td>
<td>EP-94* Development of an Endovascular Transvenous Delivery System for Implantation of an Inferior Petrosal Sinus Transdural Cerebrospinal Fluid Shunt</td>
<td>C. Heilman, United States</td>
</tr>
</tbody>
</table>

* European Technicians in Minimally Invasive Neurological Therapy  
(2nd Symposium for angiosuite personnel)
Thursday, 6 September 2018

12.30 – 13.00  Industry Symposium – see programme page 28

13.00 – 14.00  Lunch Break  
Exhibition Hall

14.00 – 14.30  Industry Symposium – see programme page 28

14.00 – 16.00  ETMINT Session  
ETMINT Lecture Hall (Gallieni 1)

**Moderators:**  
F. Menu, France; D. Olivarez, Sweden

14.00  
Various treatment strategies for embolization of bifurcation aneurysms  
L. Langard, France  
J. Ducasse, France

14.20  
Interventional Neuroradiology: "A never ending story"  
B. Faesch, France  
B. Lorceau, France

14.40  
Flow Diverters  
M. ten Brinck, The Netherlands

15.00  
Liquid embolic agents, why I use what  
P. Brouwer, Sweden

15.20  
Specificities of children management in an Interventional Neuroradiology Department  
J. Ducasse, France  
L. Langard, France

15.40  
Communication strategy assisting shared patient's experience in an interventional neuroradiology unit. Add value to the relationship caregiver-patient by hypnosis.  
L. Auriau, France

* European Technicians in Minimally Invasive Neurological Therapy  
(2nd Symposium for angiosuite personnel)
14.30 – 15.30 Joint Meeting with SNIS

**Moderators:** A. Bonafé, France; B. Baxter, United States

14.30 Debate: Endovascular treatment of wide-neck bifurcation aneurysms: how to do it?

- **Endosaccular device**
  L. Pierot, France

- **Stenting and Y-stenting**
  J. Fraser, United States

- **Flow diverter**
  D. Lopes, United States

- **Other Neck control devices**
  A. Siddiqui, United States

15.00 Debate: Wide neck side wall aneurysms: stenting or flow diversion

- **Stenting**
  B. Baxter, United States

- **FD**
  F. Turjman, France

15.20 Lecture: How to manage asymptomatic aneurysms whose diameter is smaller or equal to 5mm?

R. Klucznik, United States

15.30 – 16.00 Industry Symposium – see programme page 28

16.00 – 16.30 Coffee Break

16.30 – 17.00 Delegate Cases

**Moderators:** F. Albuquerque, United States; P. Brouwer, Sweden

16.30 **EP-47** When non "perfect" occlusion leads to bad occlusion

M. Mis, Poland

16.40 **EP-72** A case of delayed venous infarction after stent assisted coiling of a giant, partially thrombosed aneurysm

K. Kadooka, Japan

16.50 **EP-73** When is the right time to finish the endovascular intervention?

D. Viszlayová, Slovakia
17.00 – 18.30 Joint Meeting with SNIS

Moderators: C. Schirmer, United States; M. Holtmannspoetter, Denmark

17.00 Debate: Coils are becoming increasingly unnecessary for the treatment of unruptured aneurysms
Yes
A. Arthur, United States
No
C. Taschner, Germany

17.20 Lecture: EV management of IC dural AVM – Arterial approach vs Venous approach
A.-C. Januel, France

17.30 Technical Corner
Stents design: braided vs lasercut
M. Aggour, France

17.40 Lecture: Unruptured aneurysm natural history: re-examining what we think we know
J. Mocco, United States

17.50 Organizational Corner
SNIS-ESMINT: How to collaborate over the Ocean
F. Albuquerque, United States

18.00 Technical Corner: Technical approach for bAVM embolization
Detachable tip versus non detachable?
C. Islak, Turkey
How to control the reflux of embolization agent? Is it useful?
K. Orlov, Russian Federation
Is there still a place for glue in endovascular management of bAVM?
D. Frei, United States

18.20 Lecture: Is delayed rupture of aneurysm treated with flow diverters still an issue
Z. Kulcsar, Switzerland

18.30 – 19.30 ESMINT General Assembly

Main Lecture Hall
08.00 – 09.00  **Stroke Session with ESO**

**Moderators:**  
S. Engelter, Switzerland; S. Lamin, United Kingdom

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</table>
| 08.00 | Debate: Failure of thrombectomy: How far to go? when to stop? What is the chance to recanalyze if we persist?  
The INR’s point of view  
V. Costalat, France |
| 08.10 | Organizational Corner: How to organize stroke management and thrombectomy  
G. Andersen, Denmark |
| 08.20 | Invited Lecture: The future of IV fibrinolysis? rtPA vs Tenecteplase  
D. Smadja, France |
| 08.30 | Organizational Corner: Should we go straight to the angio suite?  
T. Jovin, United States |
| 08.40 | Debate: LVO with low ASPECT score  
It is an indication for thrombectomy  
M. Bendszus, Germany  
It is not an indication for thrombectomy  
M. Ribo, Spain |

09.00 – 09.30  **Delegate Cases**

**Moderators:**  
A. Biondi, France; W. Van Zwam, The Netherlands

<table>
<thead>
<tr>
<th>Time</th>
<th>Case Study</th>
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</table>
| 09.00 | EP-80*  
A case of cerebral infarction from vasculitic/atherosclerotic M1 stenosis mimic  
K. Kadooka, Japan |
| 09.10 | EP-17*  
Safety and efficacy of endovascular-only treatment of ischemic stroke compared to endovascular treatment combined with intravenous thrombolysis.  
A. Analeev, Russian Federation |
| 09.20 | EP-74*  
Recovery of dislocated devices by the TigerTriever© – Description of two cases  
B. Friedrich, Germany |

09.30 – 10.00  **Industry Symposium** – see programme page 30
10.00 – 10.30  Coffee Break  

10.30 – 11.55  Stroke Session with ESO  

**Moderators:** Y. Roos, The Netherlands; S. Renowden, United Kingdom

10.30  Technical Corner

Preventing recurrences: predictors of reocclusion after successful endovascular revascularization. Recurrences of thrombectomies over time  
*P. Brouwer, Sweden*

10.45  Invited Lecture: Influence of clot composition on thrombectomy results  
*C. Cognard, France*

11.00  Invited Lecture: How to handle an oral anticualation in a stroke patients with LVO? Acute mangement; Restart of anticoagulation: what kind of drug?  
*U. Fischer, Switzerland*

11.15  Organizational Corner

How to organize thrombectomy service across countries borders?  
*R. Beaujeux, France*

Certification of stroke units and stroke centers: ESO perspective  
*S. Engelter, Switzerland*

Certification of Interventionalist: European Board of Neuro-Intervention (EBNI)  
*I. Szikora, Hungary*

11.45  How would I do it?  
*L. Valvassori, Italy*
*M. Gawlitza, France*
Friday, 7 September 2018

11.55 – 12.30 Delegate Cases

Moderators: S. Cekirge, Turkey; L. Pierot, France

W.J. van Rooij, The Netherlands

12.05 EP-48* Endovascular treatment of ruptured cavernous ICA giant aneurysm with carotid cavernous fistula: A case report
H.W. Jeong, Republic of Korea

W. Huh, Republic of Korea

K. Zelenák, Slovakia

12.30 – 13.00 Industry Symposium – see programme page 30

13.00 – 14.00 Lunch Break

14.00 – 14.30 Industry Symposium – see programme page 30

14.30 – 15.00 Honorary Membership

Moderator: P. Brouwer, Sweden

14.30 Past Present and Future of Neurointerventional Surgery a Personal Journey
A. Berenstein, United States

15.00 – 15.20 ESMINT Diploma Award Ceremony

Moderators: T. Andersson, Sweden; J. Byrne, United Kingdom; M. Gawlitza, France; S. Renowden, United Kingdom

15.20 – 15.25 ESMINT Stroke Fellowship Programme

Moderators: L. Pierot, France; L. Valvassori, Italy

15.25 – 15.30 European Stroke Course in Minimally Invasive Neurological Therapy (EXMINT)

Moderators: P. Brouwer, Sweden; A. Krajina, Czech Republic
15.30 – 16.00 Industry Symposium – see programme page 30

16.00 – 16.30 Coffee Break

16.30 – 17.00 ESMINT’s Future Talents

Moderators: A. Krajina, Czech Republic; Z. Kulcsár, Switzerland

16.30 EP-49* WEB with long-term persistent inflow: how to deal with?
M.T. Nawka, Germany

16.40 EP-66* Combined arterial and venous management of ruptured posterior fossa pial-dural AV fistula
S. O’Reilly, United Kingdom

16.50 EP-20* Optimizing Resources for Endovascular Clot Retrieval for Acute Ischemic Stroke, a Discrete-Event Simulation
J. Maingard, Australia

17.00 – 18.30 Stroke Session with ESO

Moderators: M. Killer, Austria; U. Fischer, Switzerland

17.00 Organizational Corner: Organisation of thrombectomy service in Europe
International recommendations regarding standard of practice for endovascular management of acute ischemic stroke
L. Pierot, France

Management of antiplatelets therapy during thrombectomy with carotid stenting
Y. Roos, The Netherlands

17.25 Debate: Indication of thrombectomy in patients with low NIH

In case of large vessel occlusion
W. Van Zwam, The Netherlands

In case of distal occlusion
C. Molina, Spain

17.45 Organizational Corner
Patient selection: How to select the right patient for the right hospital
J. Gralla, Switzerland

18.00 Technical Corner
Target: TICI 2B/3 or only TICI 3?
P. Mosimann, Switzerland

18.10 Round table for wrap-up
08.30 – 09.30  ESMINT Session  
**Moderators:** C. Islak, Turkey; I. Szikora, Hungary

08.30  **Flow diverters: why they rarely don’t do their job?**  
_H. Henkes, Germany_

08.40  **Debate: Endovascular management of bAVM**  
_No I don’t do it anymore_  
_E. Boccardi, Italy_

_Yes I do it_  
_J. Moret, France_

09.10  **Invited Lecture: Intra-saccular devices in ruptured aneurysms: do they allow prevention of rebleeding?**  
_L. Spelle, France_

09.20  **Invited Lecture: Genetics and Intracranial aneurysm: recent updates**  
_R. Bourcier, France_

09.30 – 10.00  **Industry Symposium** – see programme page 30

10.00 – 10.30  **Coffee Break**  
Exhibition Hall

10.30 – 11.00  **Industry Symposium** – see programme page 30

11.00 – 11.45  **Best European Studies**  
**Moderators:** J. Fiehler, Germany; T. Andersson, Sweden

11.00  **Best European Studies / Clinical trials corner: review of current clinical studies**  
**MR Clean late et al.**  
_W. Van Zwam, The Netherlands_

**SWIFT direct**  
_J. Gralla, Switzerland_

**TENSION**  
_M. Bendszus, Germany_

**IN EXTREMIS**  
_V. Costalat, France_
11.45 – 12.25 New Technology Industry Symposium – see programme page 31

12.25 – 13.00 ESMINT Session

**Moderators:** J. Gralla, Switzerland; L. Valvassori, Italy

**12.25**
Invited Lecture: Aspiration vs stentriever alone: the Compass study  
*J. Mocco, United States*

**12.35**
Invited Lecture: "Aspitriever" vs stentriever alone: the ASTER 2 study  
*B. Lapergue, France*

**12.45**
Debate: Issues that will not be solved with current on-going stroke trials  
- Tandem occlusion: should we stent or not?  
  *A. Biondi, France*
  - Intra-cranial stenting during thrombectomy  
  *T. Andersson, Sweden*

13.00 – 14.00 Lunch Break

14.00 – 15.50 Delegate Cases

**Moderators:** P. Mosimann, Switzerland; K. Orlov, Russia

**14.00**
EP-51* Flow Diversion Treatment For Ruptured Intracranial Aneurysms  
*M. ten Brinck, The Netherlands*

**14.10**
EP-52* Triple layer flow diversion for treatment of giant internal carotid aneurysms  
*K. Mahady, Australia*

**14.20**
EP-21* dawn criteria stroke m2+multiple m3 thrombectomy  
*P. Delgado, Mexico*

**14.30**
*L.S. Cabral, Brazil*

**14.40**
EP-96* Percutaneous treatment of subarachnoid-pleural fistula with Glubran using X-Per CT and X-PerGuide  
*S. Naderi, Iran*
* M. Besana, Italy

15.00  **EP-56*** Use of eCLIPs for basilar tip and carotid terminus bifurcation aneurysms with low dome:neck ratio
* D. Ricci, Canada

15.10  **EP-57*** A1 ruptured small aneurysm...How to treat?
* S. Dima, Romania

15.20  **EP-58*** Aneurysm enlargement after flow diverter treatment
* G. Wong, Hong Kong

15.30  **EP-59*** Dissecting distal AICA and PICA aneurysms: options beyond a parent vessel sacrifice.
* G. Anil, Singapore

15.40  **EP-64*** Transvenous embolization of intracranial dural arteriovenous fistulas: using vein to artery reflux of Onyx
* J. Roh, Republic of Korea
Visit the e-posters area located in the exhibition hall. You will be able to see all the cases selected by the Scientific Committee on the computers displayed in this area.

*Case presentation in the conference room*

**1 – Acute ischemic stroke**

**EP-01**  CODE STROKE ALERT – Development of a new open-source electronic platform to streamline acute stroke care  

**EP-02**  Isolated middle cerebral artery dissection with atherosclerosis  

**EP-03**  Two stent retrievers used simultaneously for thrombus extraction in ischemic stroke (Retrieval Culotte Technique).  
S. Semitko, V. Klimov, A. Analeev (Moscow, RU)

**EP-04**  Atrial Cardiopathy: Incidence in Endovascular Thrombectomy Patients  
K.D. Arvanitakis, A. Berger, J. Wenderoth, A. Cheung, K. Alsahli, N. Manning (Sydney, AU)


**EP-06**  46h hours recanalization in anterior stroke in cancer patient.  
D. Viszlayová, M. Brozman, P. Kurray, D. Juskanič (Nitra, SK; Hradec Králové, Olomouc, CZ)

**EP-07**  Stroke Cases Simulation Portfolio  

**EP-08**  Computed-assisted parenchymographical analysis from DSA imaging in acute ischemic stroke with LVO: correlations between different post-processing protocols and CT perfusion findings  
L.S. Cabral, P.E. Passos Filho, M.M. Bianchin (Porto Alegre, BR)

**EP-09**  ‘Prophylactic’ mechanical thrombectomy for TIA: everything to lose or a whole brain to save? A.K.A. primum non nocere revisited  
L.S. Cabral, P.E. Passos Filho (Porto Alegre, BR)

**EP-10**  One pass technique for distal carotid and M1 occlusion  
J.C. Rayon-Aledo (Alicante, ES)
EP-11  Mechanical Thrombectomy with Stent Retriever in Acute Vertebrobasilar Artery Occlusion: Results of 143 patients in the TREVO Registry
B. Bartolini, P. Cardona Portela, R. Gupta, R. Nogueira, R. Budzik, J. English, B. Baxter, E. Veznedaroglu, D. Liebeskind, A. Krajina (Lausanne, CH; Barcelona, ES; Atlanta, Chattanooga, Columbus, Los Angeles, Philadelphia, San Francisco, Smyrna, US; Hradec Kralove, CZ)

EP-12  The Case Report of Internal Carotid Artery Occlusion with Eagle Syndrome
M. Kawai, N. Shimooka, K. Senda, M. Dehara, Y. Hagihawa (Osaka, JP)

EP-13  Relationship between angle of the posterior inferior cerebellar artery and cardioembolic stroke

EP-14  Impact of balloon guide catheter catheterization on mechanical thrombectomy in acute stroke patients
D. Jeong (Daegu, KR)

S.Q. Park (Seoul, KR)

EP-16  Distal M2 thrombectomy during acute aneurysm treatment
I. Vukasinovic, F. Vitošević, S. Milosavlević-Medinić (Belgrade, RS)

EP-17*  Safety and efficacy of endovascular-only treatment of ischemic stroke compared to endovascular treatment combined with intravenous thrombolysis.
S. Semitko, V. Klimov, A. Analeev (Moscow, RU)

W. Huh (Goyang-Si, KR)

K. Zelenák (Martin, SK)

EP-20*  Optimizing Resources for Endovascular Clot Retrieval for Acute Ischemic Stroke, a Discrete-Event Simulation

EP-21*  Dawn criteria stroke m2+multiple m3 thrombectomy
P. Delgado, F. Gongora (Monterrey, MX)
2 – Aneurysm therapy

EP-22 The Woven EndoBridge (WEB) for Recurrent Aneurysms: Clinical and Imaging Results
S. van Rooij, W.J. van Rooij, J. Peluso (Alkmaar, Tilburg, NL)

EP-23 Mid-term 3T MRA follow-up of intracranial aneurysms treated with the Woven EndoBridge
W.J. van Rooij, J. Peluso, S. van Rooij (Alkmaar, Oisterwijk, Tilburg, NL)

EP-24 Systematic Review of Treatment of Infectious Intracranial Aneurysms (IIAs) and the Current Role of Endovascular Methods
R. Ragulojan, S. Grupke, J. Fraser (Lexington, US)

EP-25 Endovascular treatment of a ruptured posterior communicating artery aneurysm with associated pseudoaneurysm as called “ghost aneurysm”
J.Y. Kim, J.W. Choi, J.W. Oh (Wonju-si, Gangwon-do, KR)

EP-26 Circle of Willis Flow Change after Flow Diversion
M. Findler, H. Alhazmi, R. Riva, F. Turjman (Lyon, FR)

S. Semitko, V. Sorokin, A. Bocharov, A. Analeev, P. Bolotov, V. Klimov (Moscow, RU)

EP-28 Selective Coil Embolization of a Ruptured Fusiform Aneurysm Involving the Anterior Choroidal Artery and Posterior Communicating Artery
Y. Jung, C. Chang, J. Kim, K. Choi (Daegu, KR)

EP-29 Single braided stent-assisted coiling embolization of complex middle cerebral artery aneurysms: long-term results from a 12-year multicentric cohort
L.S. Cabral, P.E. Passos Filho (Porto Alegre, BR)

EP-30 Coexisting aneurysm in Reversible Vasoconstriction Syndrome
M. Findler, P. Paraschakis, H. Alhazmi (Lyon, FR)

EP-31 Atlas Neuroform stent as flow-diversion device for small aneurysms
A. Alhajeri, S. Grupke, J. Fraser (Lexington, US)

H. Henkes, V. Hellstern, M. AlMatter, H. Bázner, O. Ganslandt, M. Aguilar Pérez (Stuttgart, DE)

EP-33 Straightening the microcatheter after intra-aneurysmal looping – The “Lagman vacuum” technique
K. Lagios, M. Mantatzis (Alexandroupoli, Athens, GR)

EP-34 Derivo Registry: Spontaneous Data Collection on Intracranial Aneurysms Treatment with Derivo Embolisation Device
L. Valvassori, P. Nuzzi, M. Piano, G. Iannucci, A. Stecco, E. Boccardi (Rozzano, Milano, Monza, Novara, Vicenza, IT)
EP-35  Bispectral index monitoring during angiographic balloon test carotid occlusion – case report  
D.A. Bandeira, F.A. Rocha, H.C. Silva, S.L.F. Cavalcante, F.J.A. Montalverne (Fortaleza, BR)

EP-36  Use of eCLIPs for recurrent basilar tip and carotid terminus bifurcation aneurysms  
L. Sorensen, J. De Vries, T. Marotta, H. Riina, D. Ricci (Aarhus, DK; Nijmegen, NL;  
Toronto, Vancouver, CA; New York, US)

H. Roh, W. Yoon (Seoul, KR)

EP-38  pCONus device in endovascular treatment of wide-neck aneurysms  
S. Milosevic Medenica, F. Vitosevic, D. Nestorovic, I. Vukasinovic (Belgrade, RS)

EP-39  Complex Basilar termination aneurysm: A strategy that worked, at least once!  
G. Anil (Singapore, SG)

EP-40  Treatment of ruptured double mirror image aneurysms at the distal anterior cerebral arteries and middle cerebral arteries; case report  
H.J. Lee, S.W. Lee, J.H. Yang (Daejeon, KR)

EP-41  The WovenEndoBridge (WEB) as primary treatment of unruptured aneurysms  
W.J. van Rooij, J. Peluso, S. van Rooij (Alkmaar, Tilburg, NL)

EP-42  Carotid-cavernous Fistula Associated with PcomA Aneurysm  
S. Badalyan, R. Fanarjyan, T. Khachatryan (Yerevan, AM; Irvine, US)


M. Khinikadze, L. Tsikarishvili, I. Tsertsvadze, B. Abdaladze, T. Goletiani (Kutaisi, Tbilisi, GE)

EP-45  Staged Embolization of Dissecting Aneurysm using Enterprise stents and LVIS blue stents  
W. Yoon, H. Rho (Seoul, KR)

EP-46  if plan A doesn't work try plan B  
M. Miś, M. Milnerowicz, A. Kacala (Wrocław, PL)

EP-47*  When non "perfect' occlusion leads to bad occlusion  
M. Mis, M. Miś, M. Milnerowicz, A. Kacala (Wrocław, PL)


EP-49*  WEB with long-term persistent inflow: how to deal with?  
EP-50* The new low-profile WEB 17 system for Treatment of Intracranial Aneurysms: First Clinical Experiences in 46 aneurysms
W.J. van Rooij, J. Peluso, S. van Rooij (Alkmaar, Tilburg, NL)

EP-51* Flow Diversion Treatment For Ruptured Intracranial Aneurysms
M. ten Brinck, M. Jäger, J. de Vries, C. Taschner, H.D. Boogaarts (Nijmegen, NL; Freiburg, DE)

EP-52* Triple layer flow diversion for treatment of giant internal carotid aneurysms
K. Mahady, J. Clouston (Brisbane, AU)

L.S. Cabral, P.E. Passos Filho (Porto Alegre, BR)

EP-55* Basilar artery aneurysm treated by Comaneci stent in a patient with Moya Moya syndrome
M. Besana, M. Frigerio, D. Mardighian, M. Ferrara, R. Gasparotti (Brescia, IT)

EP-56* Use of eCLIPs for basilar tip and carotid terminus bifurcation aneurysms with low dome:neck ratio
L. Sorensen, J. DeVries, T. Marotta, H. Riina, D. Ricci (Aarhus, DK; Nijmegen, NL; Toronto, Vancouver, CA; New York, US)

EP-57* A1 ruptured small aneurysm...How to treat?
S. Dima (Bucarest, RO)

EP-58* Aneurysm enlargement after flow diverter treatment
G. Wong, S. Yu, L. Wong, K. Sham (Hong Kong, HK)

EP-59* Dissecting distal AICA and PICA aneurysms: options beyond a parent vessel sacrifice.
G. Anil, V. Nga, S. Lwin, N. Chou, T.T. Yeo (Singapore, SG)

3 – Brain AVM

EP-61 Endovascular embolization of vein of galen aneurysm
S. Lukic, V. Kovacevic, M. Mijailovic (Kragujevac, RS)

EP-62 A benchmark approach to hemorrhage risk management of cavernous malformations
S. Kashefoiolasl, M. Bruder, N. Brawanski, E. Herrmann, V. Seifert, S. Tritt, J. Konczalla (Frankfurt am Main, DE)
4 – Brain Dural fistulas

EP-63 Improving Inferior Petrosal Sinus Drilling for Transvenous Embolisation of Indirect Caroticocavernous Fistula Using On-table Computed Tomography
K. Mahady, P. Adams (Brisbane, AU)

EP-64* Transvenous embolization of intracranial dural arteriovenous fistulas: using vein to artery reflux of Onyx

EP-65 Endovascular treatment of transverse sinus dural arteriovenous fistula(DAVF) with transarterial embolization and stenting of occluded venous sinus
J.-J. Kim, S. Park, J.-Y. Joo, Y.B. Kim, S.H. Suh (Seoul, KR)

EP-66* Combined arterial and venous management of ruptured posterior fossa pial-dural AV fistula
S. O’Reilly, I. Rennie, G. Smyth (Belfast, UK)

5 – Complications

EP-67 Delayed intraaneurysmal migration of a flow diverter construct after treatment of a giant aneurysm of the cavernous internal carotid artery
M. Gawlitza, S. Soize, F. Bouquigny, L. Pierot (Reims, FR)

EP-68 Cervical paravertebral bilateral arteriovenous fistulas treated by endovascular coil and plug embolization. Late postoperative coil migration. Case report.
S. Rudnicka, S. Karabegovic (Aalborg, Aarhus, DK)

EP-69 Late hemorrhagic complication after tandem occlusion treatment in acute ischemic stroke
D.A. Bandeira, H.C. Silva, F.A. Rocha, F.O. Lima, F.J.A. Montalverne (Fortaleza, BR)

EP-70 How to overcome difficult distal access after installation of carotid artery stent: 3 cases

G. Colby, R. Young, Y. Shwe, A. Mowlia, A. Wang, V. Szeder, M. Nour, R. Jahan, F. Vinuela, G. Duckwiler, S. Tateshima (Los Angeles, US)

EP-72* A case of delayed venous infarction after stent assisted coiling of a giant, partially thrombosed aneurysm
K. Kadooka, Z. Kulcsár (Kamogawa, Chiba, JP; Zurich, CH)

EP-73* When is the right time to finish the endovascular intervention?
D. Viszlayová, M. Brozman, M. Vytiska (Nitra, SK; Hradec Králové, Olomouc, CZ)

EP-74* Recovery of dislocated devices by the TigerTriever© – Description of two cases
B. Friedrich, C. Zimmer, K. Kreiser (Munich, DE)
6 – Imaging

EP-75  Use of steady state angiographic perfusion imaging in a case of vascular mapping and pre operative embolization in a patient with a large hemispheric meningeoma.
T. van der Zijden, A. Mondelaers, M. Muto, F. Van den Bergh, T. Menovsky, M. Voormolen (Edegem, BE; Rome, IT)

EP-76  Use of steady state angiographic perfusion imaging and iFlow colour mapping in a case of endovascular vasospasm treatment in a patient with delayed cerebral ischaemia.
T. van der Zijden, A. Mondelaers, M. Muto, F. Van den Bergh, I. Baar, M. Voormolen (Edegem, BE; Rome, IT)

EP-77  Can early ischemic changes be detected on CT modalities comparably? – comparison of e-ASPECTS, expert rating and CT perfusion maps
P. Cimflova, O. Volny, S. Belaskova, J. Vanicek (Brno, CZ)

EP-78  Carotid artery stenting using additional duplex-guidance.

EP-79  Bright sinus signal on arterial spin labeling (ASL) MRI for identifying cerebral venous thrombosis
D.W. Park, T.Y. Kim (Guri, KR)

EP-80  A case of cerebral infarction from vasculitic/atherosclerotic M1 stenosis mimic
K. Kadooka, Z. Kulcsár (Kamogawa, Chiba, JP; Zurich, CH)

7 – Miscellaneous

EP-81  Stent-Retriever’s Angioplasty for Delayed Arterial Vasospasm after Aneurysmal Subarachnoidal Hemorrhage
R. Sivan-Hoffmann, O. Cohen-Inbar, G. Sviri, E. Abergel (Haifa, IL; Charlottesville, US)

EP-82  Correlation of Vessel Wall MR Features of Intracranial Vertebral Artery Dissection (VAD) to Intravascular Ultrasound (IVUS) Findings

EP-83  Neuro-Angio prevention in Kidney EnDangered patients (NAKED study): rationale and study protocol
L.S. Cabral, B.P. Marson, P.E. Passos Filho, M.M. Bianchin (Porto Alegre, BR)

EP-84  Symptomatic trans-spinal steal in subclavian steal syndrome: a Takayasu-related finding or just another coincidence?
L.S. Cabral, P.E. Passos Filho (Porto Alegre, BR)

EP-85  Mechanical Thrombectomy in Cerebral Venous Sinus Thrombosis using the ACE68 Aspiration Catheter
S. Ge, R. Santhosh, E.H. Lim (Outram, Singapore, SG)

EP-87 Osmotic Blood-Brain-Barrier-Disruption followed by Intra-arterial Low-dose Bevacizumab for Treatment of Radiation Necrosis: A Phase II Clinical Trial

EP-88 A case of recanalization of ophthalmic artery occlusion with local fibrolysis using intra-arterial urokinase
J.H. Kwak (Dae gu, KR)

E.F.m. Ciceri, M. Plebani, G.K. Ricciardi, R. Augelli, D. Marchioni, C. Ghimenton, D. Soloperto (Verona, IT)

EP-90 Spinal arachnoiditis following perimesencephalic haemorrhage
S. Mills, M. Bryant, K. Mahady (Brisbane, AU)

EP-91* Treatment of unusual arteriovenous fistula sequela of prior endarterectomy
A. Alhajeri, A. Mehra, D. Moore, P. Timoney (Lexington, US)

EP-92* First-in-human procedure of intra-arterial drug delivery to glioblastoma under real-time MRI guidance
M. Zawadzki, J. Walecki, B. Kostkiewicz, K. Kostyra, M. Pearl, M. Solaiyappan, P. Walczak, M. Janowski (Olsztyn, Warsaw, PL; Baltimore, US)

EP-93* Design of an Endovascular Transdural Cerebrospinal Fluid Shunt Implant to Mimic Arachnoid Granulation Function
C. Heilman, A. Malek (Boston, US)

EP-94* Development of an Endovascular Transvenous Delivery System for Implantation of an Inferior Petrosal Sinus Transdural Cerebrospinal Fluid Shunt
C. Heilman, A. Malek (Boston, US)

8 – Spinal vascular malformations

EP-95* Traumatic anterior spinal arteriovenous fistula
K. Mahady (Brisbane, AU)

EP-96* Percutaneous treatment of subarachnoid-pleural fistula with Glubran using X-Per CT and X-PerGuide
## INDUSTRY SYMPOSIA

### Thursday, 6 September 2018

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<th>Time</th>
<th>Symposium Name</th>
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<td>12.30 – 13.00</td>
<td><strong>Stryker Industry Symposium:</strong></td>
<td>Enhancing performance in the treatment of wide necked complex aneurysms</td>
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<td><strong>Stryker Industry Symposium:</strong></td>
<td><em>Moderator: L. Valvassori, Italy</em></td>
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<td>– The Neuroform Atlas™ stent system to assist coil</td>
<td><em>M. Möhlenbruch, Germany</em></td>
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<td>embolization of intracranial aneurysms: a multicenter experience</td>
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<td>– Planning the access strategy for safe &amp; effective</td>
<td><em>J. Macho, Spain</em></td>
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<td>flow diverter deployment</td>
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<tr>
<td>14.00 – 14.30</td>
<td><strong>Cerenovus Industry Symposium:</strong></td>
<td>Successfully treating wide neck bifurcation aneurysms with PulseRider:</td>
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<td><strong>Cerenovus Industry Symposium:</strong></td>
<td><em>How we do it</em></td>
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<td><strong>Cerenovus Industry Symposium:</strong></td>
<td><em>Moderators: F. Turjman, France; S. Mangiafico, Italy</em></td>
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<td></td>
<td><strong>Cerenovus Industry Symposium:</strong></td>
<td>European users discuss their experience with Pulserider and how Sim&amp;Cure software is unlocking the potential to treat wide neck bifurcation aneurysms with PulseRider</td>
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<td><strong>Cerenovus Industry Symposium:</strong></td>
<td><em>Speakers: V. Costalat, France; P. Goffette, Belgium</em></td>
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<td>15.30 – 16.00</td>
<td><strong>Balt Industry Symposium:</strong></td>
<td>Renewing the fundamentals of innovation</td>
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<td><strong>Balt Industry Symposium:</strong></td>
<td><em>Moderator: A. Dörfler, Germany</em></td>
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<td>– Catchview revascularization device: initial</td>
<td><em>A. Dörfler, Germany</em></td>
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<td>experience and future perspective</td>
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<td>– Balloon plugging technique for the treatment of</td>
<td><em>M. Aggour, France</em></td>
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<td>AVMs</td>
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<td>– Preliminary experience with SILK Vista baby –</td>
<td><em>M. Galdamez, Spain</em></td>
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<td>European cases review</td>
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**SPONSORED SESSIONS**

**INDUSTRY SYMPOSIA**

### Friday, 7 September 2018

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<th>Time</th>
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| 09.30 – 10.00 | Cerenovus Industry Symposium: First Pass rates and how ARISEII connects the data           | - Opening the agenda  
- T. Andersson, Sweden  
- Highlights of ARISE2 and First pass results  
- O.O. Zaidat, United States  
- Embotrap experience/usage and safety and effectiveness  
- T. Andersson, Sweden  
- Discussion on Embotrap |
| 12.30 – 13.00 | MicroVention Industry Symposium                                                            | - WEB™ GCP studies: long term angiographic follow-up  
- L. Pierot, France  
- Results of the Hydrogel Endovascular Aneurysm Treatment Trial (HEAT)  
- G. Dabus, United States |
| 14.00 – 14.30 | Medtronic Industry Symposium: Time is brain: AIS state-of-the-art approaches to improve outcomes | - Moderator: J. Fiehler, Germany  
- Speakers: H. Deutschmann, Austria; M. Ribó, Spain |
| 15.30 – 16.00 | Penumbra Industry Symposium: Science of aspiration: new technology and advanced techniques | - Speakers: P. Schramm, Germany; D. Fiorella, United States |

### Saturday, 8 September 2018

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<th>Time</th>
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<tr>
<td>09.30 – 10.00</td>
<td>Siemens Healthineers Industry Symposium: One-stop management of stroke patients: from feasibility to broad implementation</td>
<td>- M. Psychogios, Germany</td>
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</table>
| 10.30 – 11.00 | Phenox Industry Symposium:                                                                     | - Update on p64 diversion study and clinical and angiographic outcome with early p64 cases  
- A. Biondi, France  
- Taking flow diversion to the next level with p48 MW  
- A. Kemmling, Germany |
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<td>11.55 – 12.05</td>
<td>Acandis New Technology Symposium</td>
<td>Advanced healing technologies by Acandis</td>
<td>L. Valvassori, Italy</td>
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<td>– Preliminary data on Acandis® Derivo® Registry</td>
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<td>– First experience with Acandis® Braided Microstent</td>
<td>P. Stracke, Germany</td>
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<tr>
<td>12.05 – 12.15</td>
<td>Balt New Technology Symposium</td>
<td>New low profile flow diverter SILK Vista baby – technical aspect</td>
<td>M. Galdamez, Spain</td>
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<tr>
<td>12.15 – 12.25</td>
<td>Medtronic New Technology Symposium</td>
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Badges
Access to all scientific sessions are only possible with your personal badge. Please always wear your badge! € 30. - will be charged for replacement of a lost badge.

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

CME Accreditation & Certificates
The 10th 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 10th Congress of the European Society of Minimally Invasive Neurological Therapy is designated for a maximum of, or up to, 14 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.

The CME accreditation is valid only for the main congress programme and does not cover the industry sponsored symposia.

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 onsite.

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 Thursday 18:30 – 19:30h.

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.
Exhibition Opening Hours

Thursday, 6 September 2018 07:30 – 18:30
Friday, 7 September 2018 07:30 – 18:30
Saturday, 8 September 2018 08:00 – 16:00

Insurance

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.

Registration / Secretariat Opening Hours

Wednesday, 5 September 2018 17:00 – 19:00
Thursday, 6 September 2018 07:30 – 18:30
Friday, 7 September 2018 07:30 – 18:30
Saturday, 8 September 2018 08:00 – 16:00

Responsibility

The participant acknowledges that he/she has no right to lodge damage claims against the organisers should the holding of the congress be hindered or prevented by unexpected political or economical events or generally by "force majeure", or should the non-appearance of speakers or other reasons necessitate programme changes. With his/her registration, the participant accepts this proviso.

By accepting the general terms and conditions, the participant declares that he/she agrees to its personal and company data being processed by Congrex Switzerland, may be forwarded to the sponsors and exhibitors of the congress and that this data may be used for information purposes on congresses and events in related fields organised by Congrex Switzerland. In the opposing case, the participant notifies Congrex Switzerland in written within 5 working days after the registration.
Social Cocktail Dinner
ESMINT is pleased to invite you to the cocktail dinner on Friday, 7 September 2018. The ticket for the cocktail dinner is not automatically included in your registration. It is free of charge but the capacity is limited. Prior booking is therefore needed. If you still would like to attend the dinner and have not booked a ticket yet, please consult the secretariat on-site on Thursday, 6 September 2018.

Cocktail dinner from 20:00 to 02:00 at Le Galet, 8 quai des Etats-Unis, Nice

Important: Please bring your badge to the dinner in order to get the access dinner bracelet on-site.

Speakers’ Service Centre (SSC)
The Speakers’ Service Centre (SSC) is connected to all lecture halls and is located on level 3, next to the main lecture hall. All speakers are asked to hand in their PowerPoint 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.

Venue
Acropolis Convention Centre
1 Esplanade John Fitzgerald Kennedy
06000 Nice/France

Wi-Fi
Free Wi-Fi is available throughout the congress centre.

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- Stryker ................................ H6

**Exhibition Dates and Hours**

- Thursday, 6 September 2018 07:30 – 18:30
- Friday, 7 September 2018 07:30 – 18:30
- Saturday, 8 September 2018 08:00 – 16:00
SAV E THE DATE

4 – 6 September 2019
Acropolis Convention Centre – Nice, France

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