## EANS Training Course
### Vascular
### September 1 - 4, 2017 – Seville, Spain

**Friday – 1<sup>st</sup> September**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair</th>
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<tbody>
<tr>
<td>09:00 – 09:10</td>
<td>Welcome and introduction</td>
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<tr>
<td>09:10 – 10:25</td>
<td><strong>Cerebral aneurysms</strong></td>
<td>Meling</td>
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<td>09:10 – 09:25</td>
<td>Incidence &amp; epidemiology of aneurysms (ruptured &amp; unruptured)</td>
<td>Meyer (Vajkoczy)</td>
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<td>09:25 – 09:40</td>
<td>Factors affecting outcome after SAH</td>
<td>Papanastassiou</td>
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<td>09:40 – 09:55</td>
<td>Basic principles</td>
<td>Meling</td>
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<td>09:55 – 10:10</td>
<td>Intraoperative adjuncts in aneurysm surgery (prevention of ischemia, ICG, MD, hybrid OR, Adenosin, electrophysiology)</td>
<td>Raabe</td>
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<td>10:10 – 10:25</td>
<td>Endovascular approach to aneurysms</td>
<td>Andreou</td>
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<td>10:35 – 11:05</td>
<td><strong>How I Do It aneurysm I</strong></td>
<td>Raabe</td>
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<td>10:35 – 10:45</td>
<td>ACOM aneurysm</td>
<td>Lehecka</td>
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<td>10:45 – 10:55</td>
<td>ICA aneurysm</td>
<td>Meling</td>
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<td>10:55 – 11:05</td>
<td>MCA aneurysm</td>
<td>Thomé</td>
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<td>11:05 – 11:30</td>
<td>Coffee break</td>
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<td>11:30 – 12:55</td>
<td><strong>Discussion Groups (2 rotations) (1,2)</strong></td>
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<td>12:55 – 14:00</td>
<td>Lunch/Training Committee Meeting</td>
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<tr>
<td>14:00 – 15:00</td>
<td><strong>How I Do It aneurysm II</strong></td>
<td>Gruber</td>
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<td>14:00 – 14:10</td>
<td>A2/3 aneurysms</td>
<td>Lehecka</td>
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<td>14:10 – 14:20</td>
<td>VB aneurysm (surgical)</td>
<td>Clemenceau</td>
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<td>14:20 – 14:30</td>
<td>Giant aneurysms – Anterior circulation (bypass)</td>
<td>Vajkoczy</td>
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<tr>
<td>14:30 – 14:40</td>
<td>Giant aneurysms – Anterior circulation (clipping)</td>
<td>Meling</td>
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<td>14:40 – 14:50</td>
<td>Troubleshooting in perioperative rupture</td>
<td>Smrcka</td>
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<td>14:50 – 15:00</td>
<td>Surgery for coiled aneurysms</td>
<td>Spetzler/Meling</td>
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<td>15:10 – 16:35</td>
<td><strong>Discussion Groups (2 rotations) (3,4)</strong></td>
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<td>16:40 – 17:10</td>
<td>Coffee break</td>
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<td>17:10 – 18:10</td>
<td><strong>Break-out sessions 1 &amp; 2</strong></td>
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Breakout 1: Grading and decision making in aneurysmal SAH (Trainees & Smrcka)
Breakout 2: Decision making in unruptured aneurysms (Trainees & Velinov)
Saturday – 2nd September

09:00 – 09:45  Cerebral AVMs  
   Chair: Laakso  
   09:00 – 09:15  AVM Classification, haemodynamics and natural history  
      Laakso  
   09:15 – 09:30  Surgical treatment of AVMs: OF COURSE!  
      Spektor  
   09:30 – 09:45  Endovascular treatment of AVMs: YES!  
      Wanke

09:50 – 10:10  How I Do It  
   Chair: Roche  
   09:50 – 10:00  Surgery for an unruptured AVM  
      Bijlenga  
   10:00 – 10:10  Surgery for a ruptured AVM  
      Jaskolski

10:15 – 11:00  Round Table: Decision making for AVM treatment  
      Laakso, Lippitz, Wanke  
      (Moderator: Schaller)

11:00 – 11:30  Coffee break

11:30 – 12:55  Discussion Groups (2 rotations) (5,6)

13:00 – 14:00  Lunch/Training Committee Meeting

14:00 – 14:45  Cranial & spinal dural AVFs  
   Chair: Meyer  
   14:00 – 14:15  Classification of cranial & spinal dAVF  
      Bijlenga  
   14:15 – 14:30  Management of cranial dAVF  
      Rohde

14:30 – 14:50  How I do it  
   Chair: Meyer  
   14:30 – 14:40  Spinal dAVF  
      Rohde  
   14:40 – 14:50  Spinal haemangioblastoma  
      Konovalov

15:05 – 15:50  Discussion Groups (1 rotation) (7)

15:50 – 16:20  Coffee break

16:20 – 17:45  Discussion Groups (2 rotations) (8, 9)
Sunday - 3rd September

09:00 – 09:45 Stroke and arterial dissection I  Chair: Vajkoczy
09:00 – 09:10 What’s new in stroke & stroke treatment?  Wanke
09:10 – 09:20 Surgical aspects  Bijlenga
09:20 – 09:35 Anticoagulation & antiaggregation  Velinov
09:35 – 09:50 Surgical approach to ischemic disease (revasc. + Decompression)  Schubert

10:00 – 10:40 How I do it  Chair: Velinov
10:00 – 10:10 Carotid endarterectomy  Netuka
10:10 – 10:20 Decompressive hemicraniectomy for stroke  Omerhodzic
10:20 – 10:30 Making an extra-intracranial by-pass  Sames
10:30 – 10:40 Cerebellar haematomas  Rocka

10:40 – 11:10 Coffee break

11:10 – 12:40 Discussion Groups (2 rotations) (10, 11)

12:40 – 13:40 Lunch/Training Committee Meeting

13:45 – 15:00 Stroke and arterial dissection II  Chair: Roche
13:45 – 14:00 Intra- & extracranial arterial dissections  Bijlenga
14:00 – 14:15 Place, role and techniques for cerebral by-pass surgery  Vajkoczy
14:15 – 14:30 Cerebrovascular disease in children  Skjoth-Rasmussen
14:30 – 14:45 Moya-Moya disease  Bilginer
14:45 – 15:00 Skull base techniques for vascular disease  Roche

15:05 – 16:30 Discussion Groups (2 rotations) (12, 13)

16:30 – 17:00 Coffee break

17:00 - 19:00 Break-out sessions 3 & 4
Breakout 3: Decision making in unruptured AVMs (Laakso & Lehecka team)
Breakout 4: ICH management (Clusmann team)
Monday – 4th September

09:00 – 09:30  Cavernomas & Haemangioblastomas  
Chair: Demetriades
09:00 – 09:15  Intracranial cavernomas  
09:15 – 09:30  Haemangioblastomas, current concepts for treatment  

09:30 – 09:40  How I do it  
Chair: Smrcka
09:30 – 09:40  Cerebral cavernomas  
09:40 – 09:50  Brainstem cavernomas  
09:50 – 10:00  Spinal cavernomas  

10:00 – 10:40  Discussion Groups (1 rotation) (14)

10:40 – 11:10  Coffee break

11:10 – 11:40  Trainees' lectures related to course topics

11:45 – 12:25  Discussion Groups (1 rotation) (15)

12:30 – 13:30  Lunch/Training Committee Meeting

13:30 – 15:40  Discussion Groups (3 rotations) (16, 17, 18)

16:00  Course conclusion + critique


Discussion Groups

Friday/Saturday

1. Ethics  
   Broekman/Tisell
2. Surgical or endovascular?  
   Andreou/ Papanastassiou
3. Angiography interpretation  
   Iliescu/Cerejo
4. Complications of SAH management  
   Smrcka/Lehecka
5. Strategy in incidental aneurysms  
   Spetzler (Schirmer)/Omerhodzic/Parajon
6. AVMs - choice of treatment  
   Laakso/Wanke/Lippitz (Montreux RS)
7. Haematomas in the elderly  
   Rocka/Demetriades
8. Multiple aneurysms  
   Thomé/Meling
9. Intracranial vascular anatomy (including veins)  
   Destrieux

Sunday/Monday

10. Management of cavernomas  
    Sure/Smolanka
11. Deep-seated intracranial haematomas  
    Spektor/Jaskolski
12. Cerebral revascularisation  
    Vajkoczy/Schubert
13. Posterior fossa haematoma / infarction  
    Roche/Clusmann
14. Management of stroke  
    Velinov/Bijlenga
15. Management of IVH  
    Raabe/Novak
16. Occlusive carotid disease  
    Netuka/Gruber
17. Paediatric vascular disease  
    Skjoth-Rasmussen/Sala
    BrainLab