# Preliminary Scientific Program

## THURSDAY June 7th

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>07.30</td>
<td>Registration opens / Coffee</td>
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<tr>
<td>07.45</td>
<td>Opening remarks - Tal Hörer &amp; Kerstin Nilsson, Dean of medical school, University of Örebro</td>
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### Opening session EVTM round table 2018

7 min talk + 3 min discussion  
**Chair:** Joe DuBose and Lauri Handolin  
**Panel:** Session speakers

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<tbody>
<tr>
<td>07.50</td>
<td>Endovascular Resuscitation current update - T. Rasmussen (US)</td>
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<tr>
<td>08.00</td>
<td>When do truncal hemorrhage patients die and what are we going to do about it - L. Moore (US)</td>
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<td>08.10</td>
<td>Experience from EVAR in rAAA- adjunct techniques that can be used in bleeding patients - T. Larzon (SE)</td>
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<td>08.20</td>
<td>Lessons learned from clinical experience and training perspectives over the last 5 years - M. Brenner (US)</td>
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<td>08.30</td>
<td>Updates on open techniques for hemorrhage control - Role of Endo? Future? Changes in DSTC courses? - K. Boffard (ZA)</td>
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<td>08.40</td>
<td>Optimizing endovascular resuscitation for trauma management: A senior trauma surgeon’s perspective - EE. Moore (US)</td>
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<td>08.50</td>
<td>First successful REBOA in mass casualty event and other experience at Role 2 MTF - V. Reva (RU)</td>
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<tr>
<td>09.00</td>
<td>Introducing a Trauma Hybrid OR to your trauma service - A. Kirpatrick (CA)</td>
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<td>09.10</td>
<td><strong>Round table discussion 1:</strong> EVTM; Endovascular resuscitation and REBOA - Where do we stand? Where do we go?</td>
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<td>09.30</td>
<td>Coffee in foyer</td>
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### Session 1: EVTM practical issues and multidisciplinary approach

7 min talk + 3 min discussion  
**Chair:** Viktor Reva and Thomas Vogl  
**Panel:** M Brenner (US), S Cacala (ZA), O Merin (IL), B Darvish (SE), S Mohseni (SE), EE Moore (US)

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<tr>
<td>10.00</td>
<td>REBOA in South Africa- update and short term lessons - is it really needed? - F. Plani (ZA)</td>
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<td>10.10</td>
<td>IR/endovascular role in bleeding control - How to do? How to think? Examples - M. Delle (SE)</td>
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<td>10.30</td>
<td>Using endo (and hybrid) techniques in trauma - Evidence? Guidelines? Trauma surgeon thoughts - L. Handolin (FI)</td>
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<td>10.50</td>
<td>Practical aspects of EVTM implementation at your institution - What “stuff” do you need? - M. Hoehn (US)</td>
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<td>11.00</td>
<td>Effect of EVTM with the Hybrid ER: Innovation in the field of severe trauma - T. Kinoshita (JP)</td>
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<td>11.10</td>
<td>Is Multidisciplinary/EVTM concept applicable in the US? Who should do what? - J. Duchesne (US)</td>
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<td>11.20</td>
<td><strong>Debate 2.0:</strong> EVTM in my hospital - Yes, we do! - B. Kessel &amp; O. Galili (IL)</td>
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<tr>
<td>11.30</td>
<td><strong>Debate 2.0:</strong> EVTM in my hospital - Dream on; Impossible! - G. Oosthuizen (ZA)</td>
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<td>Panel and audience discussion</td>
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<td>12.00</td>
<td>Lunch / REBOA workshops / Nurses and pre-hospital workshops</td>
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### Session 2: Vascular access in resuscitation, bleeding & trauma patients

7 min talk + 3 min discussion  
**Chair:** George Oosthuizen and Ernest Moore  
**Panel:** T Larzon (SE), A Pirouzram (SE), M Delle (SE), C M Wahlgren (SE), M Lerardi (IT), O Galli (IL), A Kirkpatrick (US)

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<tr>
<td>13.00</td>
<td>When and for whom should we obtain emergent femoral vascular access on arrival? - T. Williams (US)</td>
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<td>13.10</td>
<td>Vascular access in austere environment/on site/battlefield. Update/tips/problems - V. Reva (RU)</td>
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<td>13.20</td>
<td>How to close a vascular access? Closure devices - What to use, when? - Z. Rancic (CH)</td>
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13.30 Vascular access for non-vascular surgeons/non IR; Feasable? How to learn? Tips? - T. Vogl (DE)
13.40 What to use for access in the ER/Surgery/IR suite for access? New devices? Complications - D. Eefting (NL)
13.50 PRO- vascular access on arrival/in the field- We should do it in selected cases - V. Reva (RU)
14.00 Debate 2.0: Con-Vascular access on arrival/in the field- Dangerous; Bad idea! - L. Moore (US)
14.10 Panel and audience discussion
14.30 Coffee / Industry Exhibitors

Session 3: Updates on REBOA
7 min talk + 3 min discussion
Chairs: Lauri Handolin and Junichi Matsumoto
Panel: K Boffard (ZA), C Montan (SE), L Moore (US), P Skoog (SE), V Reva (RU), F Plani (ZA), M Brenner (US)
15.00 Never do REBOA for chest or CNS injuries? True or myth? - T. Williams (US)
15.10 Should I start in Zone 1 first for every REBOA use? What can I use to confirm position now and in the near future? - E. Benjamin (US)
15.20 Never do REBOA - existing data and contra-indications - J. Duchesne (US)
15.30 Practical aspects of REBOA - Who do you need? What kind of team? Imaging? - M. Hoehn (US)
15.40 Why pREBOA and iREBOA? What does the data tell us? - L. Neff (US)
15.50 On the horizon for vascular access and REBOA - T. Rasmussen (US)
16.00 Clinical trials update - The ABOTrauma registry update - D. McGreevy (SE)
16.10 Clinical trials update - The AORTA study (US) - J. DuBose (US)
16.20 Clinical trials update - The DIRECT IABO study (JP) - Y. Matsamura (JP)
16.30 Israeli experience with REBOA. For trauma and non-trauma: two years experience - B. Kessel (IL) & G. Shaked (IL)
16.40 Panel and audience discussion

Session 4: Zone III REBOA embolization and pelvic bleeders
7 min talk + 3 min discussion
Chairs: Todd Rasmussen and Joe Galante
Panel: T Vogl (DE), M Hohen (US), E Søvik (NO), K Boffard (ZA), E Moore (US), L Ansaloni (IT), G Wallin (SE), A Albäck (FI)
17.00 Animal SAAP models and REBOA data. Where do we go? - J. Ross (US)
17.10 Walkthrough the new pelvic fracture guidelines (Packing/embolization/REBOA) - F. Coccolini (IT)
17.20 Transitioning to a practice using zone 3 for REBOA - practical aspects and tips - J. Ibrahim (US)
17.30 Level 2-3 trauma REBOA- can you manipulate the “golden hour”? - W. Teeter (US)
17.40 What to do when things go wrong and it’s bleeding? Cases - J. Tisnado (US)
17.50 Liquid embolisation for the pelvic- data and how to do - A M. Lerardi (IT)
18.00 EVTM and REBOA for pediatric patients - A bridge to far? - L. Neff (US)
18.10 Debate 2.0: Pro- REBOA should always be considered for pelvic bleeders - M. Brenner (US)
18.20 Debate 2.0: Con- REBOA only if pre-peritoneal packing fails - S. Cacala & G. Oosthuizen (ZA)
18.30 Panel and audience discussion
18.45 Get Together / Industry Exhibitors

FRIDAY June 8th

Session 5: Training aspects of endo-resuscitation and REBOA!
7 min talk + 3 min discussion
Chairs: Jonathan Morrison and Artai Pirouzram
Panel: Y Matsumura (JP), O Merin (IL), S Cacala (ZA), L Qingsheng (CN), M Wikström (SE), L Lönn (DK), F Granholm (SE), L Kursland (SE), R Lendum (UK)
08.00 The way to do it - Vascular surgeon or interventional radiologist - M. Taudorf (DK)
08.10 REBOA by EM physicians: US perspective and challenges - W. Teeter (US)
08.20 Military aspects of EVTM training and what is relevant in my experience. Training my residents? - M. Metthew (US)
08.30 EndoVascular Training and group for advanced endo treatment in trauma (Korean first experience) - S. Chang (KR)
08.40 Radial Artery Access for Angioembolization in Trauma and training aspects - J. Morrison (US)
08.50 Training Courses in the USA - What’s on the horizon and what is needed? To who? - M. Brenner (US) & M. Hoehn (US)

09.00 Debate 2.0: We have to do EVTM/REBOA - K. Mani (Vascular) (SE)

09.10 Debate 2.0: No, we should do EVTM/REBOA - J. Galante (Trauma) (US)

09.20 Panel and audience discussion on training aspects for EVTM - Who should do what?

09.35 Coffee / Industry Exhibitors

Session 6: Pre-hospital and military REBOA and EVTM techniques
7 min talk + 3 min discussion
Chairs: Joe DuBose and Viktor Reva
Panel: T Williams (US), L Handolin (FI), M Martin (US), R Lendrum (UK), O Merin (IL), G Shaked (IL), S Sadek (UK), P Rees (UK), Y Kon (JP)

10.00 Military EVTM experience. Data US military update - M. Northern (US)

10.10 En route transfer REBOA on the battlefield - J. Keränen & L. Handolin (FI)

10.20 REBOA vs alternative minimally invasive techniques for massive pelvic hemorrhage on the battlefield - M. Metthew (US)

10.30 “Beating Heart” vs. “Non-Beating Heart” Traumatic Cardiac Arrest: Implications for Resuscitation - J. Manning (US)

10.40 Civilian pre-hospital REBOA; Update on current world status - S. Sadek (UK) & Y. Matsamura (JP)

11.00 Implementing the REBOA-protocol for non-vascular trauma surgeons - F. Plani & G. Oosthuizen (ZA)

11.10 Pre-hospital femoral access and REBOA use might become part of standard combat casualty care capability in the near future, realistic? - L. Neff (US)

11.20 REBOA afloat- an adjunct to military maritime damage control resuscitation and surgery - P. Rees (UK)

11.30 Debate 2.0: PRO: Transfer vascular access and REBOA - is there a role for that in EVTM? Advantages and considerations YES - J. Galante (US)

11.40 Debate 2.0: CON: Transfer vascular access and REBOA - is there a role for that in EVTM? Disadvantages and considerations Don’t - L. Moore (US)

11.50 Round tables discussion 2: On pre-hospital and military EVTM/REBOA and EVTM methods in the field - what is possible? Should we push the limits?

12.05 Lunch / Lunch Symposium / REBOA workshop / Nurses and pre-hospital workshops

Session 7: Endovascular and hybrid techniques for bleeding control
7 min talk + 3 min discussion
Chairs: Megan Brenner and Thomas Larzon
Panel: L Qingsheng (CN), Z Rancic (CH), J DuBose (US), K Mani (SE), L Lönn (DK), A Pirouzram (SE), M Hoehn (US)

13.00 Sizing endografts for younger patients (Thorax, Abdomen, Iliac, Subclavian) - S. Spiliopoulos (GR)

13.10 Onyx and mechanical embolic agents for bleeding control. Any rationale? - A M. Lerardi (IT)

13.20 Coils and/or plugs for bleeding control- What to use? Products? How to do and choice of agent - T. Vogl (DE)

13.30 TEVAR in trauma and bleeders - L. Qingsheng (CN)

13.40 Liver bleeding- how to manage; What to use in viceral bleeding? Optimal imaging? Tips - M. Della (DE)

13.50 Subclavian, axillary and neck vessels - Technical aspects to hemostasis in the EVTM era - J. Duschene (US)

14.00 Debate: You have to have endografts for EVTM! What every major hospital should have on its shelf - K. Mani (SE)

14.10 Debate: Simple C-arm and some simple tools can make a different. What to use and what to have on the shelf (Europé) - A. Pirouzram & T. Hörer (SE)

14.20 Live debate “what to have in my EVTM kit” and how to use it.

14.35 Coffee / Industry Exhibitors

Session 8: More on training and who should do EVTM- We want to do that!
7 min talk + 3 min discussion
Chairs: Joe DuBose and George Oosthuizen
Panel: K Boffard (ZA), L Moore (US), J Manning (US), T Vogl (DE), Z Rancic (CE), R Lindgren (SE), L Lönn (DE), J Matsumoto (JP), S Fajer (IL), Y Kon (JP)

15.05 Training for fast vascular access - How fast, what is safe? What to consider and how to teach? - D. Eefting (NL)

15.15 The great panel debate: Trauma surgeons vs Emergency doctors v.s Vascular surgeons vs Interventional Radiologists. How should we use EVTM and when? Training.

15.40 Simulation and working with C Arm - What exist and what can be done? - L. Lönn (DK)

15.50 Perfused models - What exist and what can be done? How to get a good model? Limitations? - E. Benjamin (US)

16.00 Training modalities in EVTM. What’s out there. Benefits and limitations - T. Williams (US)
### Session 9: Vascular injuries EVTM treatment- open and endo; visceral bleeding

#### 17.00
**Chosing embolization agent - What, when and how? my favorite tools**
- R. Lopez (CH)

#### 17.10
**Vascular injuries in South Africa-data? Place for Endo?**
- G. Oosthuizen (ZA)

#### 17.20
**Vascular injuries in Brazil-data? First Brazilian EVTM workshop rapport**
- J. Sahagoff, M. Steinman & B. Pereira (BR)

#### 17.30
**Isolated Aortic Abdominal Injury in Blunt Trauma: Two Case Reports and Review of the Literature**
- B. Raguan (IL)

#### 17.40
**More on vascular injuries and strategies. How to do, what to consider?**
- S. Spiliopoulos (GR)

#### 17.50
**Vessels endograft repair for trauma beyond the thoracic aorta - current data & results**
- J. DuBose (US)

#### 18.00
**Choosing embolization agent - What, when and how? These are my favorite tools!**
- M. Delle (SE)

#### 18.10
**TEVAR – The solution for Thoracic Aortic Blunt and Penetrating Trauma- Guidelines and Indications**
- S. Fajer (IL)

#### 18.20-18.45
**EVTM Society Meeting - Open to all of interest**

### SATURDAY June 9th

#### 07.30
**Coffee / Industry Exhibitors**

### Session 10: Endovascular Resuscitation; What do we know? Translational data and research

#### 07.50
**REBOA (ABO) might be used for non-trauma cases - The physiology behind it and why it works?! REBOA should be in eCPR!**
- K. Nilsson (SE)

#### 08.00
**Indications for REBOA and embolization in PPH - when/how?**
- E. Savik (NO)

#### 08.10
**Retrieval Stents as an Alternative to REBOA for Aortic and Cava Hemorrhage**
- B. Tillman (US)

#### 08.20
**How hybrid trauma management might change "classic surgery"? Role in cancer surgery?**
- B. Kessel (IL)

#### 08.30
**Double balloons for proximal and distal control & venous control & REBOA in pregnancy. Updates from Colombia**
- Ordoñez & Manzano (CO)

#### 08.40
**Cardiac arrest and REBOA- myth or reality? Bridge to ECMO?**
- A. Johnson (US)

#### 08.50
**Debate 2.0: PRO - REBOA has a role in hemodynamic unstable patients, not only trauma!**
- F. Plani (ZA)

#### 09.00
**Debate 2.0: CON - REBOA is dangerous and has no place in other bleeders!**
- J. Duchesne (US)

#### 09.30
**Coffee / Industry Exhibitors**

### Session 11: Complications, anesthesiological and ICU aspects 1

#### 10.00
**What complications to expect after endovascular procedure? How to manage it? ICU aspects**
- P. Skoog (SE)

#### 10.10
**What can we learn on the ICU period in REBOA treated patients? Day 2-3-4?**
- L. Moore (US)

#### 10.20
**Long term follow up after major vessels EVTM- should we adapt general endovascular guidelines?**
- J. Morrison (UK)

#### 10.30
**Endovascular major complications- How to avoid and how to solve. Post-operative considerations**
- T. Larzon (SE)

#### 10.40
**REBOA during CPR- experience/data- Is it effective? Any data?**
- E. Dogan (SE)

#### 10.50
**A new femoral access for REBOA and ECPR by a hybrid technique**
- L. Lamhaut (FR)

#### 11.00
**A place for balloons in the ICU? Endovascular approaches for profound shock states**
- A. Johnson (US)

#### 11.10
**Simulation for aortic occlusion balloon in RAAA – a protocol including all hybride staff reduces door-to-balloon time**
- A. Albäck (FI)

#### 11.20
**Round tables discussion 3: Where do we stand and how to avoid complications? Optimal ICU care? Role of ICU staff?**
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<td>11.40</td>
<td><strong>Pressure, flow and inflammation: managing the patient undergoing balloon occlusion aorta</strong> - S. Kellertt (UK)</td>
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<td>11.50</td>
<td><strong>Intra-abdominal hypertension and abdominal compartment syndrome in bleeders</strong> - Lessons - Z. Rancic (CH)</td>
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<td>12.00</td>
<td><strong>ECMO - possible role for Endovascular Resuscitation; When? Who?</strong> - M. Larsson (SE)</td>
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<td><strong>ECMO in Endovascular Resuscitation. Data and let’s speculate</strong> - L. Lamhaut (FR)</td>
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<td>12.20</td>
<td><strong>Antithrombotic treatment in the ICU after EVTM. You have an endograft in. What to do next? Evidence?</strong> - P. Skoog (SE)</td>
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<td>12.30</td>
<td><strong>Imaging: CT, angio and hybrid suite or semi-hybrid suites- what’s out there and what’s on the horizon?</strong> - M. Taudorf &amp; L. Lönn (DK)</td>
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<td>12.40</td>
<td><strong>Debate: Supraceliac hematoma and severe hypotension at trauma laparotomy: left thoracotomy and X-clamp vs. REBOA? ICU care is way different!</strong> - K. Boffard (ZA)</td>
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<td>13.15</td>
<td><strong>Update on the JEVTM. Where do we go?</strong> - J. Morrison (UK) &amp; J. DuBose (US)</td>
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<td>13.25</td>
<td><strong>EVTM Future aspects, the next EVTM symposium, JEVTM, the EVTM society and closing remarks</strong> - T. Hörer (SE)</td>
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