# Preliminary Scientific Program

## 2nd EndoVascular resuscitation and Trauma Management round table symposium.

### 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; TBA</td>
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## Opening session EVTM round table 2018

**Chair:** Joe DuBose and Lauri Handolin  
**Panel:** Session speakers

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<thead>
<tr>
<th>Time</th>
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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>Round table discussion 1: 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

**Chair:** Viktor Reva and Thomas Vogl  
**Panel:** J DuBose (US), M Brenner (US), S Cacala (ZA), O. Merin (IL), B Darvish (SE), S Mosahni (SE), F Catena (IT)

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<tr>
<th>Time</th>
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<tbody>
<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>Debate 2.0: EVTM in my hospital - Yes, we do! - B. Kessel &amp; O. Galili (IL)</td>
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<tr>
<td>11.30</td>
<td>Debate 2.0: EVTM in my hospital - Dream on; Impossible! - G. Oosthuizen (ZA)</td>
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<td>11.40</td>
<td>Panel and audience discussion</td>
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<tr>
<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

**Chair:** George Oosthuizen and Ernest Moore  
**Panel:** T Larzon (SE), A Pirouzram (SE), M Delle (SE), C M Wahlgren (SE), M Lerardi (IT), O Galili (IL)

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<tbody>
<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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**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)

- **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 EVTM - 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)

- **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 failes - 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)

- **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. Martin (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 (UK)

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)

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

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 Mettheau (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 - T. Hörer (SE)

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 viseral bleeding? Optimal imaging? Tips - M. Delle (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. Priouzram & 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)

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

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

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

15.50  Training modalities in EVTM. What’s out there. Benefits and limitations - T. Williams (US)

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

Debate 2.0: PRO - With proper training, anyone can do REBOA (and other procedures?) - J. Ibrahim (US)

Debate 2.0: CON - EVTM and REBOA procedures should be done by professionals! - C-M. Wahlgren & C Montan (SE)

Panel and audience discussion

Session 9: Vascular injuries EVTM treatment - open and endo; visceral bleeding
7 min talk + 3 min discussion

Chairs: Todd Rasmussen and Carl M Wahlgren
Panel: C Montan (SE), J Sahagoff (BR), J DuBose (US), J Duchesne (US), P Talving (EE), M Brenner (US), M Hoehn (US), S Fajer (IL)

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


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 - US data - J. DuBose (US)

18.00 Chosing 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)

19.30 Dinner - Elite Stora Hotellet

SATURDAY June 9th

07.30 Coffee / Industry Exhibitors

Session 10: Endovascular Resuscitation; What do we know? Translational data and research
7 min talk + 3 min discussion

Chairs: Boris Kessel and Jonathan Morrison
Panel: L Qingsheng (CN), L Kursland (SE), L Lamhault (FR), M Larsson (SE), J Manning (UK), A. Kirpatrick (CA), F. Granholm (SE)

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 Non-trauma bleeders, can we use Endo methods? - lessons - TBA

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 and venous control. Use in vascular surgery and other bleeders - TBA

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
7 min talk + 3 min discussion

Chairs: Joe DuBose and Lauri Handolin
Panel: K Nilson (SE), L Moore (US), E Moore (US), Z Kellet (UK), B Darvis (SE), G Wallin (SE), S Cacala (ZA)

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? - A. Johnson (US)

10.30 Complications in the AORTA and PROOVIT studies - J. DuBose (US)


10.50 - TBA

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

11.10 - TBA

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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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tr>
<td>11.40</td>
<td>- TBA</td>
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<tr>
<td>11.50</td>
<td>Intra-abdominal hypertension and abdominal compartment syndrome in bleeders - Lessons</td>
<td>Z. Rancic (CH)</td>
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<td>12.00</td>
<td>ECMO - possible role for Endovascular Resuscitation; When? Who?</td>
<td>M. Larsson (SE)</td>
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<td>12.10</td>
<td>ECMO in Endovascular Resuscitation. Data and let’s speculate</td>
<td>L. Lamhaut (FR)</td>
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<td>12.20</td>
<td>Antithrombotic treatment in the ICU after EVTM. You have an endograft in. What to do next?</td>
<td>P. Skoog (SE)</td>
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<td>Evidence?</td>
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<td>12.30</td>
<td>Imaging: CT, angio and hybrid suite or semi-hybrid suites- what’s out there and what’s on the</td>
<td>M. Taudorf (DK)</td>
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<td>horizons?</td>
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<td>12.40</td>
<td>Debate: Supraceliac hematoma and severe hypotension at trauma laparotomy: left thoracotomy</td>
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<td>Panel and audience discussion</td>
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<td>13.15</td>
<td>Update on the JEVTM. Where do we go?</td>
<td>J. Morrison (UK) &amp; J.</td>
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<td>DuBose (US)</td>
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<td>13.25</td>
<td>EVTM Future aspects, the next EVTM symposium, JEVTM, the EVTM society and closing remarks</td>
<td>T. Hörer (SE)</td>
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