



2nd EndoVascular resuscitation and Trauma Management round table symposium.

Final scientific program

THURSDAY June 7th

07.30 **Registration opens / Coffee**

07.40 **Opening remarks** - Tal Hörer & Kerstin Nilsson, Dean of medical school, University of Örebro

Opening session EVTm round table 2018

7 min talk + 3 min discussion

Chairs: Joe DuBose and Lauri Handolin

Panel: *Session speakers*

07.50 Endovascular Resuscitation current update - *T. Rasmussen (US)*

08.00 When do truncal hemorrhage patients die and what are we going to do about it - *L. Moore (US)*

08.10 Experience from EVAR in rAAA- adjunct techniques that can be used in bleeding patients- *T. Larzon (SE)*

08.20 Lessons learned from clinical experience and training perspectives over the last 5 years - *M. Brenner (US)*

08.30 Updates on open techniques for hemorrhage control - Role of Endo? Future? Changes in DSTC courses? - *K. Boffard (ZA)*

08.40 Optimizing endovascular resuscitation for trauma management : A senior trauma surgeon's perspective - *EE. Moore (US)*

08.50 First successful REBOA in mass casualty event and other experience at Role 2 MTF - *V. Reva (RU)*

09.00 Introducing a Trauma Hybrid OR to your trauma service - *A. Kirkpatrick (CA)*

09.10 **Round table discussion 1:** EVTm; Endovascular resuscitation and REBOA - Where do we stand? Where do we go?

09.30 **Coffee in foyer**

Session 1: EVTm practical issues and multidisciplinary approach

7 min talk + 3 min discussion

Chairs: Viktor Reva and Göran Wallin

Panel: *M Brenner (US), S Cacala (ZA), O Merin (IL), B Darvish (SE), S Mohseni (SE), EE Moore (US), B Peirera (BR), J Ibrahim (US), G Wallin (SE)*

10.00 REBOA in South Africa- update and short term lessons - is it really needed? - *F. Plani (ZA)*

10.10 IR/endovascular role in bleeding control - How to do? How to think? Examples - *M. Delle (SE)*

10.20 Multidisciplinary early bleeding control interventions in Japan. Who? How? Updates - *J. Matsumoto & Y. Matsamura (JP)*

10.30 Using endo (and hybrid) techniques in trauma - Evidence? Guidelines? Trauma surgeon thoughts - *L. Handolin (FI)*

10.40 Endovascular techniques and imaging in bleeding patients - *J. Matsumoto (JP)*

10.50 Practical aspects of EVTm implementation at your institution - What "stuff" do you need? - *M. Hoehn (US)*

11.00 Effect of EVTm with the Hybrid ER: Innovation in the field of severe trauma - *T. Kinoshita (JP)*

11.10 Is Multidisciplinary/EVTm concept applicable in the US? Who should do what? - *J. Duchesne (US)*

11.20 **Debate 2.0: EVTm in my hospital - Yes, we do!** - *B. Kessel & O. Galili (IL)*

11.30 **Debate 2.0: EVTm in my hospital - Dream on; Impossible!** - *G. Oosthuizen (ZA)*

11.40 **Panel and audience discussion**

12.00 **Lunch in the exhibition / REBOA workshop in room Bryggaren / Nurses and pre-hospital workshop in room Lodet**

Session 2: Vascular access in resuscitation, bleeding & trauma patients

7 min talk + 3 min discussion

Chairs: George Oosthuizen and Ernest Moore

Panel: *T Larzon (SE), A Pirouzram (SE), M Delle (SE), M Lerardi (IT), O Galili (IL), A Kirkpatrick (US), F Cocollini (IT)*

13.00 When and for whom should we obtain emergent femoral vascular access on arrival? - *T. Williams (US)*

13.10 Vascular access in austere environment/on site/battlefield. Update/tips/problems - *V. Reva (RU)*

13.20 How to close a vascular access? Closure devices - What to use, when? - *Z. Rancic (CH)*

13.30	Vascular access for non-vascular surgeons/non IR; Feasible? How to learn? Tips? - <i>Y. Matsumura (JP)</i>
13.40	What to use for access in the ER/Surgery/IR suite for access? New devices? Complications - <i>D. Eefting (NL)</i>
13.50	PRO- vascular access on arrival/in the field - We should do it in selected cases - <i>V. Reva (RU)</i>
14.00	Debate 2.0: CON-Vascular access on arrival/in the field- Dangerous; Bad idea! - <i>L. Moore (US)</i>
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), J Galante (US), M Martin (US)*

15.00	Never do REBOA for chest or CNS injuries? True or myth? - <i>T. Williams (US)</i>
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? - <i>E. Benjamin (US)</i>
15.20	Never do REBOA - existing data and contra-indications - <i>J. Duchesne (US)</i>
15.30	Practical aspects of REBOA - Who do you need? What kind of team? Imaging? - <i>M. Hoehn (US)</i>
15.40	Why pREBOA and iREBOA? What does the data tell us? - <i>L. Neff (US)</i>
15.50	On the horizon for vascular access and REBOA - <i>T. Rasmussen (US)</i>
16.00	Clinical trials update - The ABOTrauma registry update - <i>D. McGreevy (SE)</i>
16.10	Clinical trials update - The AORTA study (US) - <i>J. DuBose (US)</i>
16.20	Clinical trials update - The DIRECT IABO study (JP) - <i>Y. Matsamura (JP)</i>
16.30	Israeli experience with REBOA. For trauma and non-trauma: two years experience - <i>B. Kessel (IL) & G. Shaked (IL)</i>
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: *M Hohen (US), E Søvik (NO), K Boffard (ZA), E Moore (US), L Ansaloni (IT), G Wallin (SE), A Albäck (FI)*

17.00	Walkthrough of the new pelvic fracture guidelines (Packing/embolization/REBOA) - <i>F. Coccolini (IT)</i>
17.10	Transitioning to a practice using zone 3 for REBOA - practical aspects and tips - <i>J. Ibrahim (US)</i>
17.20	Level 2-3 trauma REBOA - can you manipulate the "golden hour"? - <i>W. Teeter (US)</i>
17.30	What to do when things go wrong and it's bleeding? Cases - <i>J. Tisnado (US)</i>
17.40	Liquid embolisation for the pelvic - data and how to do - <i>A.M. Lerardi (IT)</i>
17.50	EVTM and REBOA for pediatric patients - A bridge to far? - <i>L. Neff (US)</i>
18.00	Debate 2.0: PRO- REBOA should always be considered for pelvic bleeders - <i>M. Brenner (US)</i>
18.10	Debate 2.0: CON- REBOA only if pre-peritoneal packing fails - <i>S. Cacala & G. Oosthuizen (ZA)</i>
18.20	Panel and audience discussion
18.45	Get Together / Industry Exhibitors

FRIDAY June 8th

07.30	Coffee / Industry Exhibitors
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Session 5: Training aspects of endo-resuscitation and residents point of view!

7 min talk + 3 min discussion

Chairs: Megan Brenner 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), R Lendum (UK)*

08.00	The way to do it - Vascular surgeon or interventional radiologist - <i>M. Taudorf (DK)</i>
08.10	REBOA by EM physicians: US perspective and challenges - <i>W. Teeter (US)</i>
08.20	Military aspects of EVTm training and what is relevant in my experience. Training my residents? - <i>M. Martin (US)</i>
08.30	EndoVascular Training and group for advanced endo treatment in trauma (Korean first experience) - <i>S. Chang (KR)</i>
08.40	Radial Artery Access for Angioembolization in Trauma and training aspects - <i>J. DuBose (US)</i>
08.50	Training Courses in the USA - What's on the horizon and what is needed? To who? - <i>M. Brenner (US) & M. Hoehn (US)</i>

09.00	Debate 2.0: We have to do EVT/REBOA - <i>K. Mani (Vascular) (SE)</i>
09.10	Debate 2.0: No, We should do EVT/REBOA - <i>J. Galante (Trauma) (US)</i>
09.20	Panel and audience discussion on training aspects for EVT - Who should do what?
09.35	Coffee / Industry Exhibitors
Session 6: Pre-hospital and military REBOA and EVT techniques	
7 min talk + 3 min discussion	
Chairs: Joe DuBose and Viktor Reva	
Panel: <i>T Williams (US), M Martin (US), R Lendrum (UK), O Merin (IL), G Shaked (IL), S Sadek (UK), P Rees (UK), Y Kon (JP)</i>	
10.00	Military EVT experience. Data! US military update - <i>M. Northern (US)</i>
10.10	En route transfer REBOA on the battlefield - <i>J. Keränen & L. Handolin (FI)</i>
10.20	REBOA vs alternative minimally invasive techniques for massive pelvic hemorrhage on the battlefield - <i>M. Martin (US)</i>
10.30	"Beating Heart" vs. "Non-Beating Heart" Traumatic Cardiac Arrest: Implications for Resuscitation - <i>J. Manning (US)</i>
10.40	Civilian pre-hospital REBOA: update current status and where do we go? - <i>S. Sadek (UK)</i>
10.50	Civilian pre-hospital REBOA: update Japan, possibilities and limitations? - <i>Y. Matsamura (JP)</i>
11.00	Implementing the REBOA-protocol for non-vascular trauma surgeons - <i>F. Plani & G. Oosthuizen (ZA)</i>
11.10	Pre-hospital femoral access and REBOA use might become part of standard combat casualty care capability in the near future, realistic? - <i>L. Neff (US)</i>
11.20	REBOA afloat- an adjunct to military maritime damage control resuscitation and surgery - <i>P. Rees (UK)</i>
11.30	Debate 2.0: PRO: Transfer vascular access and REBOA - is there a role for that in EVT? Advantages and considerations YES - <i>J. Galante (US)</i>
11.40	Debate 2.0: CON: Transfer vascular access and REBOA - is there a role for that in EVT? Disadvantages and considerations Don't - <i>L. Moore (US)</i>
11.50	Round tables discussion 2: On pre-hospital and military EVT/REBOA and EVT methods in the field - what is possible? Should we push the limits?
12.05 - 13.00	Lunch in the exhibition
12.05 - 12.25	Mentice lunch satellite symposium - LIVE Patient Simulation – REBOA, team, complication and process management – Experienced ideas on how to setup an effective training program. With Megan Brenner & Lars Lönn
Session 7: Endovascular and hybrid techniques for bleeding control	
7 min talk + 3 min discussion	
Chairs: Megan Brenner and Thomas Larzon	
Panel: <i>L Qingsheng (CN), Z Rancic (CH), J DuBose (US), L Lönn (DK), M Hoehn (US), E Sævik (NO), S Spiliopoulos (GR), J Sahagoff (BR)</i>	
13.00	Sizing endografts for younger patients (Thorax, Abdomen, Iliac, Subclavian) - <i>S. Spiliopoulos (GR)</i>
13.10	Onyx and mechanical embolic agents for bleeding control. Any rationale? - <i>A M. Lerardi (IT)</i>
13.20	Animal SAAP models and REBOA data. Where do we go? - <i>J. Ross (US)</i>
13.30	TEVAR in trauma and bleeders - <i>L. Qingsheng (CN)</i>
13.40	Liver bleeding - how to manage; What to use in visceral bleeding? Optimal imaging? Tips - <i>M. Delle (DE)</i>
13.50	Subclavian, axillary and neck vessels - Technical aspects to hemostasis in the EVT era - <i>J. Duschene (US)</i>
14.00	Debate: You have to have endografts for EVT! What every major hospital should have on its shelf - <i>K. Mani (SE)</i>
14.10	Debate: Simple C-arm and some simple tools can make a difference. What to use and what to have on the shelf (Europe) - <i>A. Priouzram & T. Hörer (SE)</i>
14.20	Live debate "what to have in my EVT kit" and how to use it.
14.35	Coffee / Industry Exhibitors
Session 8: More on training and who should do EVT - We want to do that!	
7 min talk + 3 min discussion	
Chairs: Joe DuBose and George Oosthuizen	
Panel: <i>K Boffard (ZA), L Moore (US), J Manning (US), Z Rancic (CE), R Lindgren (SE), L Lönn (DE), J Matsumoto (JP), S Fajer (IL), Y Kon (JP)</i>	
15.05	Training for fast vascular access - How fast, what is safe? What to consider and how to teach? - <i>D. Eefting (NL)</i>
15.15	The great panel debate: Trauma surgeons vs Emergency doctors v.s Vascular surgeons vs Interventional Radiologists. How should we use EVT and when? Training.
15.40	Simulation and working with C Arm - What exist and what can be done? - <i>L. Lönn (DK)</i>

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 EVT/MT. What's out there. Benefits and limitations - T. Williams (US)
16.10	Resuscitative balloon occlusion of the aorta (REBOA): a population based analysis of potential trauma patients in Germany - K. Elias (DE)
16.20	Debate 2.0: PRO - With proper training, anyone can do REBOA (and other procedures?) - J. Ibrahim (US)
16.30	Debate 2.0: CON - EVT/MT and REBOA procedures should be done by professionals! - C.M. Wahlgren & C. Montan (SE)
16.40	Panel and audience discussion

Session 9: Vascular injuries EVT/MT 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), M Hoehn (US), S Fajer (IL), A Alböck (FI)

17.00	Choosing 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 EVT/MT 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. Raguán (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	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	EVT/MT Society Meeting - Open to all of interest
19.30	Dinner - Örebro Castle

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 Jim Manning

Panel: L Qingsheng (CN), L Lamhaut (FR), M Larsson (SE), J Manning (US), A. Kirpatrick (CA), F Granholm (SE), B Peirera (BR), C-M Wahlgren (SE), G Wallin (SE), G Oosthuizen (ZA)

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. Søvik (NO)
08.10	Retrievable Stents as an Alternative to REBOA for Aortic and Caval Hemorrhage - B. Tillman (US)
08.20	How hybrid trauma management might change "classic surgery"? Role in cancer surgery? - B. Kessel (IL)
08.30	Thoracic injuries and intra-operative use of REBOA. Experience from Colombia - Ordoñez (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

7 min talk + 3 min discussion

Chairs: Joe DuBose and Lauri Handolin

Panel: K Nilsson (SE), L Moore (US), E Moore (US), Z Kellet (UK), B Darvis (SE), G Wallin (SE), S Cacala (ZA), T Wannatoop (TH)

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	Endovascular major complications - How to avoid and how to solve. Post-operative considerations - T. Larzon (SE)
10.30	REBOA during CPR - experience/data - Is it effective? Any data? - E. Dogan (SE)
10.40	A new femoral access for REBOA and ECPR by a hybrid technique - L. Lamhaut (FR)
10.50	A place for balloons in the ICU? Endovascular approaches for profound shock states - A. Johnson (US)
11.00	Simulation for aortic occlusion balloon in RAAA – a protocol including all hybrid staff reduces door-to-balloon time - A. Alböck (FI)

11.10	Round tables discussion 3: Where do we stand and how to avoid complications? Optimal ICU care? Role of ICU staff?
Session 12: Complications, anesthesiological and ICU aspects 2; Medical treatment and other adjuncts in bleeding? (Lunch to go) 7 min talk + 3 min discussion Chairs: Boris Kessel and Laura Moore Panel: <i>S Kellet (UK), J Duchesne (US), E Gamberini (IT), P Rees (UK), D Eefting (NL), K Nilsson (SE), F Cocollini (IT)</i>	
11.40	Pressure, flow and inflammation: managing the patient undergoing balloon occlusion aorta - <i>S. Kellet (UK)</i>
11.50	Intra-abdominal hypertension and abdominal compartment syndrome in bleeders - Lessons - <i>Z. Rancic (CH)</i>
12.00	ECMO - possible role for Endovascular Resuscitation; When? Who? - <i>M. Larsson (SE)</i>
12.10	ECMO in Endovascular Resuscitation. Data and let's speculate - <i>L. Lamhaut (FR)</i>
12.20	Antithrombotic treatment in the ICU after EVTm. You have an endograft in. What to do next? Evidence? - <i>P. Skoog (SE)</i>
12.30	Imaging: CT, angio and hybrid suite or semi-hybrid suites - what's out there and what's on the horizon? - <i>M. Taudorf & L. Lönn (DK)</i>
12.40	Debate: Supraceliac hematoma and severe hypotension at trauma laparotomy: left thoracotomy and X-clamp vs. REBOA? ICU care is way different! - <i>K. Boffard (ZA)</i>
12.50	Debate: Supraceliac hematoma and severe hypotension at trauma laparotomy: left thoracotomy and X-clamp vs. REBOA? ICU care is quite the same - <i>M. Martin (US)</i>
13.00	Panel and audience discussion
13.15	Update on the JEVTM. Where do we go? - <i>J. DuBose (US)</i>
13.25	EVTm Future aspects, the next EVTm symposium, JEVTM, the EVTm society and closing remarks - <i>T. Hörer (SE)</i>