



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 & Lars Lönn (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 - K. Mani (Vascular) (SE)
09.10	Debate 2.0: No, We should do EVT/REBOA - J. Galante (Trauma) (US)
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: T Williams (US), M Martin (US), R Lendrum (UK), O Merin (IL), G Shaked (IL), S Sadek (UK), P Rees (UK), Y Kon (JP)	
10.00	Military EVT 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. Martin (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 current status and where do we go? - S. Sadek (UK)
10.50	Civilian pre-hospital REBOA: update Japan, possibilities and limitations? - 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 EVT? 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 EVT? Disadvantages and considerations Don't - L. Moore (US)
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: L Qingsheng (CN), Z Rancic (CH), J DuBose (US), L Lönn (DK), M Hoehn (US), E Sævik (NO), S Spiliopoulos (GR), J Sahagoff (BR)	
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	Animal SAAP models and REBOA data. Where do we go? - J. Ross (US)
13.30	TEVAR in trauma and bleeders - L. Qingsheng (CN)
13.40	Liver bleeding - how to manage; What to use in visceral bleeding? Optimal imaging? Tips - M. Delle (DE)
13.50	Subclavian, axillary and neck vessels - Technical aspects to hemostasis in the EVT era - J. Duschene (US)
14.00	Debate: You have to have endografts for EVT! 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 difference. What to use and what to have on the shelf (Europe) - A. Priouzram & T. Hörer (SE)
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: 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)	
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 EVT 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 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. Alback (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. Ragan (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
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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. Sovik (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. Calala (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	REBOA during CPR - experience/data - Is it effective? Any data? - E. Dogan (SE)
10.30	A new femoral access for REBOA and ECPR by a hybrid technique - L. Lamhaut (FR)
10.40	A place for balloons in the ICU? Endovascular approaches for profound shock states - A. Johnson (US)
10.50	Simulation for aortic occlusion balloon in RAAA – a protocol including all hybrid staff reduces door-to-balloon time - A. Alback (FI)
11.00	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: *S Kellet (UK), J Duchesne (US), E Gamberini (IT), P Rees (UK), D Eefting (NL), K Nilsson (SE), F Cocollini (IT)*

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 JEVm. Where do we go? - <i>J. DuBose (US)</i>
13.25	EVTm Future aspects, the next EVTm symposium, JEVm, the EVTm society and closing remarks - <i>T. Hörer (SE)</i>