



# 7th EVTm Symposium

**HOT TOPICS in EndoVascular resuscitation and Trauma Management  
in collaboration with the European Society of Vascular Surgery**

## FRIDAY December 3<sup>rd</sup>

07.00 **Registration opens / Coffee**

07.25 **Opening remarks** - Welcome by Prof. Mats G Karlsson (SE), Lars Norgren (SE), Göran Wallin (SE)

### Opening session, Keynote Talks - Hot topics in EVTm applications

6 min talk + 4 min discussions

Chairs: Ken Boffard (ZA), Anna Maria Ierardi (IT), Martin Malina (UK)

**Speakers and panelists:** Ernest Moore (US), Frank Planí (ZA), Thomas Larzon (SE), Stephan Haulon (FR), Lionel Lamhaut (FR), Viktor Reva (RU), Martin Malina (UK), Boris Kessel (IL)

07.40 EndoVascular resuscitation and Trauma Management: Where do we stand - *Tal Hörer (SE)*

07.50 The unstable bleeding trauma patient- Where does EVTm come in? - *Ernest Moore (US)*

08.00 Advances in endovascular surgery for bleeding control in rAAA, rTAA, acute dissections - *Stephan Haulon (FR)*

08.10 EVTm multidisciplinary issues - the vascular, trauma, IR, ED, anesthesiologist role - *Viktor Reva (RU)*

08.20 Modern technology, new tools and EVTm (endografts, embolization and balloons) - where do we go? - *Martin Malina (UK)*

08.30 What is new in trauma management for hemodynamic unstable patients? In South Africa, where does EVTm come in? - *Frank Planí (ZA)*

08.40 Developments in bleeding control in endovascular times - View of a senior vascular surgeon - *Thomas Larzon (SE)*

08.50 EndoVascular resuscitation - what is new, what is coming? - *Lionel Lamhaut (FR)*

09.00 **Round table discussion:** How to go forward with EVTm?

### Session 2: Hot topics in Vascular access for the unstable patient

6 min talk + 4 min discussion

Chairs: Stephan Haulon (FR), Claes Forssell (SE), Pirkka Vikatmaa (FI)

**Speakers and panelists:** Zoran Rancic (CH), Martin Delle (SE), David Lindström (SE), Chuck Fox (US), Paul Rees (UK), Jostein Brede (NR), Federico Coccolini (IT), Artai Pirouzram (SE), Anna Romagnoli (US), Per Skoog (SE)

09.10 Landmark papers on vascular access - review - *Jim Manning (US)*

09.20 The good vascular access for interventions - practical issues and lessons learned - *Martin Delle (SE)*

09.30 The difficult vascular access, tips, tricks and solutions - *Anna Maria Ierardi (IT)*

09.40 Complications, how to avoid and how to solve? Tips and tricks, cases - *Claes Forssell (SE)*

09.50 Surgical, non-surgical and open solutions for the failing access. Cases and examples - *David Lindström (SE)*

10.00 Vascular access for ECMO and patients with ongoing CPR - *Lionel Lamhaut (FR)*

10.10 How do I gain access in the unstable patient? - *Zoran Rancic (CH)*

10.20 Vascular access in the pre-hospital environment. Challenges. Do we have any data? - *Paul Rees (UK), Jon Barratt (UK), Max Marsden (UK)*

10.30 **Panelist debate:** Hemodynamically unstable patients should get a femoral vascular access. PROS-CONS. By who?

10.40 **Coffee and industry exhibition**

### Session 3: Hot topics in Endografts and other tools for the bleeding patient

6 min talk + 4 min discussion

Chairs: Simone Fajer (IL), Maarit Verneremo (FL), Zoran Rancic (CH)

**Speakers and panelists:** Claes Forssell (SE), Greg Magee (US), Stephan Haulon (FR), Artai Pirouzram (SE), Pirkka Vikatmaa (FI), Aho Pekka (FI), Martin Malina (UK), Chuck Fox (US), Edmund Søvik (NO), Rigo Hoencamp (NL), Anahita Dua (US)

11.00 Landmark papers on Endografts in the endovascular era - review - *Offer Galili (IL)*

11.10 rAAA tips and tricks - how to maximize survival - *Aho Pekka (FI)*

11.20 Thoracic rAA and endovascular solutions. Technical aspects and reflections on multidisciplinary work - *Artai Pirouzram (SE)*

11.30 Innovative solutions for ruptures - *Greg Magee (US)*

11.40 The ruptured, injured or iatrogenic iliac artery- endovascular and hybrid solutions - *Martin Malina (UK)*

11.50 rAAA - saving patients is a team effort - *Pirkka Vikatmaa (FI)*

12.00 Doing EVAR in rAAA - how to achieve best results and working with the anesthetic team - *Zoran Rancic (CH)*

12.10	In-situ laser fenestrations of aortic endografts. Case examples - <i>David Lindström (SE)</i>
12.20	Surgeon modified endografts and other special techniques for the acute patient. Technique and examples - <i>Claes Forssell (SE)</i>
12.30	What do we know about pediatric bleeding and the use of EVTm? (Trauma and non-trauma) - <i>Alexis Smith (US)</i>
12.40	<b>Panelist debate:</b> All endo? Or good old open surgery should not be forgotten
13.00	<b>Lunch and industry exhibition</b>

#### Session 4: Hot topics in Embolization and other solutions for the bleeding patient

6 min talk + 4 min discussion

Chairs: Rebecka Hultgren (SE), Anna Maria Ierardi (IT)

**Speakers and panelists:** Rishi Kundi (US), Martin Delle (SE), Göran Wallin (SE), David Lindström (SE), Anahita Dua (US), Anna Romagnoli (US), Miklosh Bala (IL), Carlos Yanez (SP), Patricija Ivanova (LV), Claes Forssell (SE), Jonathan Morrison (US)

14.00	Landmark papers on bleeding embolization - review - <i>Anna Maria Ierardi (IT)</i>
14.10	Choosing embolization agents - is there any data? Reflections - <i>Martin Delle (SE)</i>
14.20	Embolization in non-traumatic bleeders. Indications and solutions - <i>Miklosh Bala (IL)</i>
14.30	100% EVAR for all rAAA - 12-year single center experience - <i>David McGreevy (SE)</i>
14.40	Embolization agents - what to use and how? - <i>Edmund Søvik (NO)</i>
14.50	Embolization or Multidisciplinary trauma team work? - <i>Gad Shaked (IL)</i>
15.00	What should be embolized in trauma patients? And when pelvic packing? Our experiences and tips - <i>Ernest Moore (US)</i>
15.10	Gynecologic bleeding and intervention - what and when? - <i>Ilan Bruchin (IL)</i>
15.20	Small vessel embolization in trauma - <i>Aina Kratovska (LV)</i>
15.30	<b>Panelists debate:</b> Embolize this patient! (Proactive) vs. Don't touch! (conservative)

#### Session 5: Hot Topics in imaging developments. CT, Ultrasound, Angiography and hybrid suites.

6 min talk + 4 min discussion

Chairs: Stephan Haulon (FR), Carl Magnus Wahlgren (SE)

**Speakers and panelists:** Takahiro Kinoshita (JP), Offer Gallili (IL), Anna Romagnoli (US), Per Skoog (SE), Anna Maria Ierardi (IT), Pirkka Vikatmaa (FI), Simone Fajer (IL), Martin Malina (UK), Zoran Rancic (CH)

15.50	Landmark papers on imaging in the bleeding patient - review - <i>Anna Romagnoli (US)</i>
16.00	Use of hybrid suites and hybrid rooms for vascular surgery; benefits, evidence? - <i>Per Skoog (SE)</i>
16.10	Use of hybrid ER suites with Gentry CT- is it working and is it worth the price? - <i>Takahiro Kinoshita (JP)</i>
16.20	Practical use of hybrid OR; don't forget OPEN surgery - <i>Martin Malina (UK)</i>
16.30	Ultrasound and other tools for the unstable patients - <i>Anna Romagnoli (US)</i>
16.40	Experience from Latvia - what has been done and moving forward in Endovascular and hybrid bleeding management - <i>Patricija Ivanova (LV)</i>
16.50	Angiography suites - View of a heavy user and future perspectives - <i>Stephan Haulon (FR)</i>
17.00	<b>Panelist debate:</b> Hybrid suite is the place to be vs. Surgical suite with C arm is good enough
17.10	<b>Coffee / Industry Exhibitors</b>

#### Session 6: Hot topics in Endovascular resuscitation: The non-trauma patient

6 min talk + 4 min discussion

Chairs: Zaff Qasim (US), Jim Manning (US), Lionel Lamhault (FR)

**Speakers and panelists:** Kristofer Nilsson (SE), Paul Rees (UK), Jon Barratt (UK), Jostein Brede (NO), Hans Hjelmqvist (SE), Rob Greenhalgh (UK), Pat Thompson (UK), Tony Hudson (UK), Geir Strandenes (NR), Tom Woolley (UK), Alexis Smith (US), Takahiro Kinoshita (JP)

17.30	Vascular access for patients in arrest or pre-arrest, how to do, tips and tricks - <i>Paul Rees (UK), Jon Barratt (UK), Max Marsden (UK)</i>
17.40	Endovascular occlusion methods in non-traumatic cardiac arrest. Experimental data - <i>Emanuel Dogan (SE)</i>
17.50	Indications for REBOA in non-trauma; are there any? - <i>Zaff Qasim (US)</i>
18.00	REBOA and SAAP as a bridge to ECMO? - <i>Jim Manning (US)</i>
18.10	Medical arrest and eCPR- physiology with rationale and future perspectives - <i>Lionel Lamhault (FR)</i>
18.20	Hybrid ER and applications for out of hospital cardiac arrest- view from Japan - <i>Takahiro Kinoshita (JP)</i>
18.30	Indications for ECMO (all) and what does the future hold? Who? When? By who? - <i>Paul Rees (UK), Jon Barratt (UK) &amp; Max Marsden (UK)</i>
18.40	The REBOARREST trial - <i>Jostein Brede (NO)</i>
18.50	<b>Panelist debate:</b> REBOA or SAAP has no place in cardiac arrest, ECMO yes Pro: Con:
19.15	<b>Get Together Party - with light meal and more</b>

# SATURDAY December 4<sup>th</sup>

07.15 **Coffee / Industry Exhibitors**

## Session 7: #EVTM meets #DCR (Damage Control Resuscitation)

6 min talk + 4 min discussion

Chairs: Mansoor Khan (UK), Frank Plani (ZA), Viktor Reva (RU)

**Speakers and panelists:** Ken Boffard (ZA), Miklosh Bala (IL), Federico Coccolini (IT), Carl Magnus Wahlgren (SE), Carlos Yanez (SP), Boris Kessel (IL), Gad Shaked (IL), Shahin Mohseni (SE), Anahita Dua (US), Jonathan Tilsed (UK)

07.30 Should military forces adopt REBOA in their arsenal? And who should do it? - *Rigo Hoencamp (NL), Boudewijn v.d. Burg (NL)*

07.40 Prehospital resuscitation: Blood/TXA and Calcium (indications and benefits) - *Ernest Moore (US)*

07.50 Prehospital "RAPTOR" (REBOA vs ResQ foam) - *Zaff Qasim (US)*

08.00 Death from permissive hypotension? - *Carlos Yanez (SP)*

08.10 Circulation first, airway second: Time to identify meaningful interventions - *Mansoor Khan (UK)*

08.20 Hybrid-ER vs conventional system (ED to OR system) - *Federico Coccolini (IT)*

08.30 How to work as a team during damage control and resuscitation - how to combine EVTm and DCR? - *Chuck Fox (US)*

08.40 **Panelist debate:** Scoop and control vs scoop and run

08.50 **Coffee / Industry Exhibitors**

## Session 8: Hot Topics in trauma applications of EVTm and REBOA.

### Session by Shock Trauma Center Baltimore

6 min talk + 4 min discussion

Chair: Jonathan Morrison (US), Rishi Kundi (US)

**Panelists:** Yelena Gribets Tiosano (IL), Sivan Barkai (IL), Daniel Sheffer (IL), Max Marsden (UK), Chuck Fox (US), Greg Magee (US), Carl Magnus Wahlgren (SE), Anna Romagnoli (US), Boris Kessel (IL)

09.20 Endovascular resuscitation at the Shock Trauma Center, now and in the future - *Video presentation by Thomas Scalea (US)*

09.40 Selecting patients for hybrid room resuscitation: art or science? - *Jonathan Morrison (US)*

09.50 Flow reversal and endovascular techniques for carotid injury - *Rishi Kundi (US)*

10.00 Balloon up or down? Anesthetic considerations during endovascular intervention - *Video presentation by Justin Richards (US)*

10.10 Rare injury management: Innominate Artery - *Rishi Kundi (US)*

10.20 Common injury management: Iliac artery - *Jonathan Morrison (US)*

10.30 Pre-hospital endovascular resuscitation horizons in Maryland - *Video presentation by Samuel Galvagno (US)*

10.40 Challenges in endovascular trauma surgery education - *Joseph Herrold (US)*

10.50 **Panel debate:** How to train the next generation of endovascular hemorrhage controller?

## Session 9: Hot topics in military and austere EVTm environments

6 min talk + 4 min discussion

Chairs: Chuck Fox (US), Ken Boffard (ZA), Viktor Reva (RU)

**Speakers and panelists:** Paul Rees (UK), Jon Barratt (UK), Tom Woolley (UK), Gad Shaked (IL), Anahita Dua (US), Offer Galili (IL), Boris Kessel (IL), Jonathan Tilsed (UK), Frank Plani (ZA), Max Marsden (UK), Jostein Brede (NO)

11.00 Overview by the DSTC founder - *Ken Boffard (ZA)*

11.10 REBOA in military use - View of a trauma surgeon - *Frank Plani (ZA)*

11.20 Updates from the UK military - *Paul Rees (UK), Jon Barratt (UK), Max Marsden (UK)*

11.30 Practical issues with EVTm, issues in military scenarios - Embolization? Endografts? Is it feasible? - *Chuck Fox (US)*

11.40 Our experience with austere EVTm/REBOA - *Viktor Reva (RU)*

11.50 Prehospital REBOA update. The London experience and data - *Rob Greenhalgh (UK)*

12.00 Use of partial REBOA (pREBOA) - data - *Maya Paran (IL)*

12.10 **Panelist debate:** But maybe REBOA is overused? Pros, cons, in austere environment

12.20 **Lunch in the exhibition**

## Session 10: Registry data, Experimental studies and developments within EVTm

6 min talk + 4 min discussion

Chairs: Kristofer Nilsson (SE), Boris Kessel (IL), Federico Coccolini (IT)

**Speakers and panelists:** David McGreevy (SE), Greg Magee (US), Per Skoog (SE), Anna Romagnoli (US), Rebecka Hultgren (SE), Edmund Søvik (NO), Ilan Bruchin (IL), Jonathan Morrison (US)

13.10	REBOA in animal studies - Current data - <i>Sivan Barkai (IL)</i>
13.20	Landmark papers on REBOA - <i>Yelena Gribets Tiosano (IL)</i>
13.30	Thoracic blunt trauma- update on current data - <i>Greg Magee (US)</i>
13.40	The junior point of view; Experimental data - <i>Daniel Sheffer (IL)</i>
13.50	eCPR (ECMO) vs SAAP vs REBOA in cardiac arrest, experimental data - <i>Viktor Reva (RU)</i>
14.00	Post partum bleeding- strategies and data - <i>Ilan Bruchin (IL)</i>
14.10	ABOTrauma registry - update - <i>Mitra Sadeghi (SE), David McGreevy (SE)</i>
14.20	<b>Panelist discussion:</b> upcoming experimental models-what is missing?

## Session 11: Hot topics in anesthesia and critical care. Joined session with #THOR.

6 min talk + 4 min discussion

Chairs: Ernest Moore (US), Jim Manning (US)

**Speakers and panelists:** Pat Thompson (UK), Tony Hudson (UK), Tom Woolley (UK), Kristofer Nilsson (SE), Geir Strandenes (NO), Hans Hjelmqvist (SE), Jon Barratt (UK), Takahiro Kinoshita (JP), Lionel Lamhault (FR), Paul Rees (UK), Zaff Qasim (US)

14.30	The pathophysiology of blood failure - <i>Pat Thompson (UK)</i>
14.40	Prehospital airway management for patients with traumatic blood failure - <i>Tony Hudson (UK)</i>
14.50	Permissive hypotension in massive hemorrhage - <i>Tom Woolley (UK)</i>
15.00	Whole blood and cold platelets for hemostatic resuscitation - <i>Geir Strandenes (NO)</i>
15.10	<b>Discussion:</b> Implementation of critical care issues in EVTm- future aspects.
15.20	<b>Coffee / Industry Exhibitors</b>

## Session 12: New and rising EVTm technologies, access devices, imaging and endografts.

6 min talk + 4 min discussion

Chairs: Maarit Vernemo (FI), Rebecka Hultgren (SE), Claes Forssell (SE)

**Speakers and Panelists:** Zoran Rancic (CH), Artai Pirouzram (SE), David Lindström (SE), Thomas Larzon (SE), Per Skoog (SE), Offer Galili (IL), Simone Fajer (IL), Martin Malina (UK), Anahita Dua (US), Greg Magee (US)

15.40	How to close a vascular access - my tools - <i>Claes Forssell (SE)</i>
15.50	How to close a vascular access- pros and cons - <i>Zoran Rancic (CH)</i>
16.00	Advances in hybrid room and endovascular suites. What do we use and what we want in the future! - <i>David Lindström (SE)</i>
16.10	Hemorrhage from Wire injury; Commonly Overlooked Serious Complication to Endovascular Surgery - <i>Martin Malina (UK)</i>
16.20	Coming soon: Extended partial REBOA: the latest human data and case studies from North America - <i>Jonathan Morrison (US)</i>
16.30	More on visceral endografts in rAAA and rTAA - <i>Greg Magee (US)</i>
16.40	Novel technologies for the emergent situation – from imaging to RAPTOR - <i>Maarit Vernemo (FI)</i>
16.50	Iliac and visceral endografts - what is out there and what to choose - <i>Per Skoog (SE), Artai Pirouzram (SE)</i>
17.00	Endovascular methods in arterial and venous injuries - <i>Anahita Dua (US)</i>
17.10	<b>Discussion:</b>

## Session 13: EVTm Society meeting

Hosted by Boris Kessel (IL), Tal Hörer (SE)

17.30	<b>EVTm Society meeting</b>
19.00	
19.30	<b>Symposium Dinner at Hamnmagasinet</b>

08.00 **Coffee / Industry Exhibitors**

**Session 14: Joined session with the European Society for Trauma & Emergency Surgery (ESTES).  
Education of the future trauma surgeon and vascular trauma**



6 min talk + 4 min discussion

Chairs: Shahin Mohseni (SE), Jonathan Tilsed (UK)

**Speakers and Panelists:** Carlos Yanez (SP), Mansoor Khan (UK), Ken Boffard (ZA), David McGreevy (SE), Miklosh Bala (IL), Gary Bass (UK), Federico Coccolini (IT)

08.30 Vascular trauma in Europe, current status, Who is doing what? - *Jonathan Tilsed (UK)*

08.40 The European trauma surgeon should be able to repair these injuries. Clinical cases for discussion - *Mansoor Khan (UK)*

08.50 Non-technical skills, an essential aspect of trauma team training. Cases/examples - *Carlos Yanez (SP)*

09.00 Endovascular training in surgical residency - should it be done? How? - *Ken Boffard (ZA)*

09.10 The junior point of view - *David McGreevy (SE)*

09.20 Trauma and surgical registry - important tool for research - *Federico Coccolini (IT)*

09.30 **Discussion**

09.50 **Coffee / Industry Exhibitors**

**Session 15: Miscellaneous EVTm aspects**

6 min talk + 4 min discussion

**Chairs:** Ken Boffard (ZA), Artai Pirouzram (SE)

**Speakers and Panelists:** Boris Kessel (IL), Offer Galili (IL), Simone Fajer (IL), Yelena Gribets Tiosano (IL), Miklosh Bala (IL), Ernest Moore (US), Chuck Fox (US), Frank Planz (ZA)

10.10 The use of REBOA and new trends in the US - *Talk show discussion with Rishi Kundi (US), Jonathan Morrison (US), Ryan Lawless (US), Tal Hörer, SE)*

10.30 Endovascular Opportunities Sadly underutilized for Persistently Dysfunctional Logistics / Politics - *Martin Malina (UK)*

10.40 Isolated regional chemoperfusion of the brain: evaluation of new open and endovascular techniques in non-human primates - *Viktor Reva (RU), A. Babich (RU)*

10.50 EVTm education and use in Thailand - *Tongporn Wannatoop (TH)*

11.00 First Aid Platform – How novel sensor and digital technologies integrates vital parameters from the scene of the accident to support decision making for the trauma team - *Thomas Larzon (SE)*

11.10 Thoracoscopic vs endo vs open methods for subclavian artery injuries - *Viktor Reva (RU)*

11.20 POPSAVEIT poplitea scoring assessment for vascular injury in trauma - *Greg Magee (US)*

11.30 Open aorta and REBOA as a resuscitation tool - *Maysam Shehab (IL)*

11.40 What is more important: Time to surgery or resuscitation en route to the OR? - *Maya Paran (IL)*

**Symposium closing - Grab n' Go Lunch**