



9th EVT^M Symposium

HOT TOPICS in EndoVascular resuscitation and Trauma Management

Symposium chairs:

Charles Fox (Vasc, US), Boris Kessel (Surgery, IL), Anna Maria Ierardi (IR, IT)

Scientific committee:

Boris Kessel (Surg, IL), Frank Plani (Surg, ZA), Eugene Moore (Surg, US), Artai Pirouzram (Vasc, SE)
David McGreevy (Vasc, SE), Kristofer Nilsson (ICU, SE), Chuck Fox (Vasc, US), Anna Maria Ierardi (IR, IT), Federico Cocolini (Surg, IT), Maria Antonella Ruffino (IR, CH), Pirkka Vikatmaa (Vasc, FI),
Stacy Plotkin (Vasc, US), Alon Schwartz (Surg, IL), Gad Shaked (Surg, IL)

Local organizing committee:

Tal Hörer, David McGreevy

(IR- Interventional Radiology, Surg- Surgery/trauma, Vasc- Vascular Surgeon, ICU- Intensive care, intensivist, Anesthesia and pre-hospital, Ort- Orthopedics, Emerg- Emergency medicine/pre hospital)

Thursday October 17th

07.00 **Registration opens / Coffee and industry exhibition**

Opening session: EVT^M in modern bleeding care current international trends and developments

6 min talk + 4 min discussions

Chairs: Anna Maria Ierardi (IR, IT), Laura Moore (Surg, US) and Chuck Fox (Vasc, US)

Panelists: Hayato Kurihara (Surg, IT), Rebecka Hultgren (Vasc, SE), Mansoor Khan (Surg, UK), Elina Quiroga (Vasc, US), Marius Rehn (ICU, NR)

07.45 Opening remarks - Boris Kessel (Surg, IL) and Chuck Fox (Vasc, US)
Greeting from the local committee: David McGreevy (Vasc, SE)

08.00 **Keynote lecture** – Decreasing Time to Hemostasis in a Trauma Hybrid OR - Laura Moore (Surg, US)

08.20 EVT^M Worldwide practice updates in trauma and non-trauma – Where are we now and future aspects - Tal Hörer (Vasc, SE)

08.30 Non-Operative Management in bleeders (Trauma)- should we be more conservative? And when endo? - Joakim Jorgensen (Vasc, NR)

08.40 Endovascular resuscitation in Japan. Experience and Current trends - Yosuke Matsumura (ICU, JP)

08.50 Can we do better with bleeding care in Europe? - Hayato Kurihara (Surg, IT)

09.00 South African experience and trends in bleeding care. Where do we stand? Can endo help us? - Frank Plani (Surg, ZA)

09.10 Current trends in interventional radiology for bleeding control, what's new and what's coming? - Anna Maria Ierardi (IR, IT)

09.20 Current developments in emergent (bleeders) vascular surgery. Where do we stand? - Greg Magee (Vasc, US)

Session 2: Endo and hybrid tools and techniques for bleeding trauma patients what to use, when and how

6 min talk + 4 min discussion

Chairs: Greg Magee (Vasc, US), Erica Mitchell (Vasc, US)

Panelists: Pirkka Vikatmaa (Vasc, FI), Junichi Matsumoto (IR, JP), Mansoor Khan (Surg, UK/UEA), Elina Quiroga (Vasc, US), Gad Shaked (Surg, IL)

09.30 **Keynote lecture** – Past, present and future techniques for open, endo and hybrid hemorrhage control. How, when and what to use? - Eugene Moore (Surg, US)

09.50 Extremity trauma: Is it still only open surgery? When endo? Examples - Chuck Fox (Vasc, US)

10.00 Visceral bleeding: When to choose endo or hybrid surgery? Endografts/Colis and more – Erica Mitchell (Vasc, US)

10.10 Embolization in trauma – When and how to do it? How to choose and use? - Maria Antonella Ruffino (IR, IT)

10.20 Hybrid techniques in trauma, the Baltimore Shock Trauma experience of EVT^M - KJ Nagarsheth (Surg, US)

10.30 Endografts for visceral and peripheral bleeders - How to choose, how to use and what to know? - Greg Magee (Vasc, US)

10.40 Best Current Management Of Pediatric Vascular Injuries: When Conservative; When Open; Endo? – Elina Quiroga (Vasc, US)

10.50 **Coffee and industry exhibition**

Session 3: Advancements for bleeding patients (trauma and non-trauma) and technological developments

6 min talk + 4 min discussion

Chairs: Eugene Moore (Surg, US), Anna Romagnoli (Vasc, US)

Panelists: Mario D'oria (Vasc, IT), Alon Schwartz (Surg, IL), Joakim Jorgensen (Vasc, NR), Maria Antonella Ruffino (IR, IT), Peter Hilbert-Carius (ICU, DE)

11.10	What is new/different in bleeding care 2024? From pre-hospital to the ICU – Jonny Morrison (Vasc, US)
11.20	What is new in imaging for bleeding patients? CT, Hybrid suites and upcoming products - Anna Maria Ierardi (IR, IT)
11.30	Hybrid / Semi-hybrid rooms: Where and who should have them, what to invest in and how to use them? – Greg Magee (Vasc, US)
11.40	REBOVC (Vena Cava Balloon) in Juxtahepatic Venous bleeding. Experimental data and can it be used? - Maria Wikström (Surg, SE)
11.50	Non-traumatic visceral bleeding and endo management (coils? Endografts?)- When and how? - Anahita Dua (Vasc, US)
12.00	OB-GYN bleeding and endo tools - what, when and how? What to use? - Maria Antonella Ruffino (IR, IT)
12.10	When to take a bleeding patient to CT (yes you can!) and when not? Semi and unstable patients? - Erica Mitchell (Vasc, US)
12.20	CT-first resuscitation protocol for severe trauma in hybrid ER; Japanese experience - Satomi Seno (IR, JP)

Session 4: Education of the future trauma and vascular surgeon Joined session with the European Society for Trauma & Emergency Surgery (ESTES)

6 min talk + 4 min discussion

Chairs: Hayato Kurihara (Surg, IT), Joakim Jorgensen (Vasc, NR), Carl Montan (Vasc, SE)

Panelists: Anna Romagnoli (Vasc, US), Paul Puchwein (Ort, AT), Juan Duchesne (Surg, US), Joao Sahagoff (Vasc, BR), Rebecka Hultgren (Vasc, SE)

12.30	What have we learnt in trauma and education? Team up with the vascular people? My view – Joakim Jorgensen (Vasc, NR)
12.40	Do we need vascular surgeons for traumatic/non-trauma bleeders/ECMO? How to team up and educate?- Carl Montán (Vasc, SE)
12.50	Vascular surgeons should be educated in trauma and vice versa? How to build good collaboration? – Carl Wahlgren (Vasc, SE)
13.00	Abdominal compartment syndrome? How not to miss it? How to follow, treat and educate residents? – Boris Kessel (Surg, IL)
13.10	Local Anesthesia in bleeders? We do it in ruptures. Educational/team issues - Sofia Strömberg (Vasc, SE)
13.20	Vascular trauma open and endo aspects in modern times- how do we educate future surgeons? - Juan Duchesne (Surg, US)
13.30	Beyond blood in bleeders and educational issues in trauma - Mansoor Khan (Surg, UK)
13.40	Specialists in Training corner - Intersociety collaboration to promote education Y-ESTES and EVTm-ST - Gabriele Bellio (Surg, IT)
13.50	Lunch

Session 5: EVTm "survival games" Endo vs. Open or maybe hybrid?

6 min talk + 4 min discussion

Chairs: Stacy Plotkin (Vasc, US) and David McGreevy (Vasc, SE)

Panelists: Sofia Strömberg (Vasc, SE), Joakim Jorgensen (Vasc, NR), Joao Sahagoff (Surg, BR), Zoran Rancic (Vasc, CH)

14.30	Debate: The bleeding femoral access – You should always OPEN IT! (Call Anesthesia!) - Stacy Plotkin (Vasc, US)
14.40	Debate: The bleeding femoral access – We'll fix it with ENDO (Local Anesthesia!) - Artai Pirouzram (Vasc, SE)
14.50	Debate: Revascularization Should PRECEDE External Bone Fixation - Erica Mitchell (Vasc, US)
15.00	Debate: Revascularization Should FOLLOW External Bone Fixation - Paul Puchwein (Ort, AT)
15.10	Debate: REBOA is an IMPORTANT tool for unstable bleeding patients - David McGreevy (Vasc, SE)
15.20	Debate: No REBOA, OPEN SURGERY is the way to go! - Daniel Shefer (Surg, IL)

Session 6: Hot topics in Thoracic Endovascular resuscitation: From imaging to treatment

6 min talk + 4 min discussion

Chairs: Manuel Garcia-Toca (Vasc, US) and Zoran Rancic (Vasc, AT)

Panelists: Erica Mitchell (Vasc, US), Giuseppe Ascitto (IR, SE), Juan Duchesne (Surg, US), Joao Sahagoff (Vasc, BR), Junichi Matsumoto (IR, JP)

15.30	SVS Blunt Thoracic Aortic Injury Guidelines – how should we treat these patients? – Juan Duchesne (Surg, US)
15.40	Endografts for thoracic aortic bleeders (dissection, rupture, trauma) – What to use and when? - Zoran Rancic (Vasc, CH)
15.50	Blunt thoracic aortic injury trends, how to treat and data from the Aorta Trauma Foundation - David McGreevy (Vasc, SE)
16.00	Axillo-subclavian trauma and iatrogenic injuries - is endo the solution? World collected data - Mario D'oria (Vasc, IT)
16.10	BTAI In Pediatric Patients: When Should They Undergo Invasive Treatment: When Endo, When Open? - Elina Quiroga (Vasc, US)
16.20	Prediction of mortality in Blunt Thoracic Aortic Injury - Mario D'oria (Vasc, IT)
16.30	Acute Thoracic Aortic Pseudo-coarctation after Blunt Thoracic Aortic Injury - Erica Mitchell (Vasc, US)
16.40	Coffee and industry exhibition

Session 7: The non-trauma patient; Tools, techniques, and results From Pre-hospital to ICU

6 min talk + 4 min discussion

Chairs: Paul Puchwein (Ort, AT) and Marius Rehn (ICU, NR)

Panelists: Sam Sadek (ICU, UK), Elina Quiroga (Vasc, US), Emre Özluer (Emerg TR), Ozchan Gur (thx, TR),

17.00	eCPR - current status and future aspects - Marius Rehn (ICU, NO)
17.10	VA ECMO in the management of trauma associated cardiogenic shock- Chris Bishop (ICU, UK)
17.20	Emergency room ECMO Indications, practical aspects and limitations – Emre Özluer (Emerg, TR)
17.30	REBOA/balloons in OncoVascular Surgery? - Joao Sahagoff (Vasc, BR)
17.40	Pre-hospital REBOA in cardiac arrest/eCPR? Value, limitations and future aspects - TBA
17.50	Intestinal ischemia after endovascular resuscitation - Bjørn Farbu (ICU, NO)
18.00	Cardiac arrest and REBOA? Experimental data and future aspects - Emanuel Dogan (ICU, SE)
18.15	Get Together Party - With light meal (in the symposium reception area)

Friday October 18th

07.15 **Coffee / Industry Exhibitors**

Session 8: Hot topics in acute vascular surgery- Endografts and more Joint session with the European Society for Vascular Surgery (ESVS)

6 min talk + 4 min discussion

Chairs: Pirkka Vikatmaa (Vasc, FI), Rebecka Hultgren (Vasc, SE)

Panelists: Zoran Rancic (Vasc, CH), Magnus Jonsson (Vasc, SE), Sofia Strömberg (Vasc, SE) TBA

08.00	Is EVAR/TEVAR taking over ruptures in Sweden? Should it? And why female gender matters? - Rebecka Hultgren (Vasc, SE)
08.10	100% EVAR in all infrarenal rAAA - a single center 15 year experience update - David McGreevy (Vasc, SE)
08.20	Do we need to open all Femoral arteries access complications? No, Many by endo (Örebro data) - Artai Pirouzram (Vasc, SE)
08.30	Acute vascular access: How to do it and how to avoid complications? examples- Magnus Jonsson (Vasc, SE)
08.40	Technical and post-op aspects in ruptures, what can we learn for other bleeding patients? - Pirkka Vikatmaa (Vasc, FI)
08.50	Endografts for iatrogenic access bleeding - how to deal with access complications? - Shahram Arabi (Vasc, US)
09.00	Endovascular or open surgery in thoracic aortic trauma. Overview, what to do and when? - Ozcan Gur (Thx, TR)
09.10	EVTM-Specialists in Training corner: Late rupture after EVAR, single center data - Rami Hammadi (Vasc, SE)

Session 9: The great debate on REBOA/Endo in trauma and non-trauma Joined session with the World Society of Emergency Surgery (WSES)

6 min talk + 4 min discussion

Chair: Ernest Moore (Surg, US) and Boris Kessel (Surg, IL)

Panelists: Federico Coccolini (Surg, IT), Fausto Catena (Surg, IT), Kristina Doklestić Vasiljev (Surg, SR), Anahita Dua (Vasc, US)

09.20	Liver trauma - Endo/open/hybrid aspects - Ernest Moore (Surg, US)
09.30	Splenic trauma - Endo/open/hybrid aspects - Fausto Catena (Surg, IT)
09.40	Pelvic trauma - Endo/open/hybrid aspects - Federico Coccolini (Surg, IT)
09.50	Pancreatic trauma - Endo/open/hybrid aspects – Enrico Cicuttin (Surg, IT)
10.00	Kidney and ureter trauma - Frank Planı (Surg, ZA)
10.10	Liver and pelvic trauma - Damage control surgery? - Kristina Doklestić Vasiljev (Surg, SR)
10.20	Critical analysis of the UK REBOA Trial – What can we conclude about REBOA in trauma? Martinez-Hernandez (ICU, SP)
10.30	Coffee and industry exhibition

Session 10: Modern Trauma Care including EVTm methods and mass casualties' issues - Joined session with the Israeli Trauma Society

6 min talk + 4 min discussion

Chairs: Alon Schwartz (Surg, IL) and Gad Shaked (Surg, IL)

Panelists: Juan Duchesne (Vasc, US), Chuck Fox (Vasc, US), Joao Sahagoff (Vasc, BR), Frank Planí (Surg, ZA), Eugene Moore (Surg, US), Laura Moore (Surg, US)

10.40	Hybrid approach for ileac artery stab wound - Ori Yaslowitz (Surg, IL)
10.50	Surgical Department experience on October 7th attack in Israel - Morris Batumsky (Surg, IL)
11.00	Balloon occlusion of inferior vena cava – Where we are? - Nimrod Aviran (Surg, IL)
11.10	We sure could use REBOA. Lessons and examples - Itay Zoarets (Surg, IL)
11.20	A single trauma center experience with Mega Multiple Casualties Incident - Yulia Elobra (Surg, IL)
11.30	Vascular injuries in Mega Multiple Casualties Incident Oct 7 th – Dmitry Shapovalov (Vasc, IL)
11.40	REBOA in severe brain injury: fatal combination or treatment alternative? - Ron Daskal (Surg, IL)
11.50	Rare complications in abdominal trauma- cases with short discussion– Guy Golani (Surg, IL)
12.00	Surgical education during armed conflict- Is it possible? How? Lessons – Daniel Shefer (Surg, IL)

Session 11: Registry data, experimental studies and developments within EVTm

6 min talk + 4 min discussion

Chairs: Kristofer Nilsson (ICU, SE), Carl Wahlgren (Vasc, SE), Federico Coccolini (Surg, IT)

Panelists: Sam Sadek (ICU, UK), Maria Wikström (Surg, SE), Jostein Brede (ICU, NO), Marius Rehn (ICU, NO)

12.10	ESVS new Vascular Trauma Guidelines: Main points to know - Carl M Wahlgren (Vasc, SE)
12.20	Details from the UK-REBOA Trial – what does it actually show? What can we learn? - Sam Sadek (ICU, UK)
12.30	PROOVIT trauma vascular registry – what does the data from USA say? More endo? – Jonny Morrison (Vasc, US)
12.40	Time to (endo) bleeding control is important. Data and examples- Anna Romagnoli (Vasc, US)

12.50	ERICA ARREST study - Hutchinson Halden (ICU, UK)
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13.00	Specialists in Training corner – Nitric Oxide (NO)-donator in ischemia- can it help? - Anna Stene Hurtsén (Vasc, SE)
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13.10	Lunch
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Session 12: Hot topics in anesthesia and critical care with EVTm aspects New developments

6 min talk + 4 min discussion

Chairs: Peter Hilbert-Carius (ICU, DE), Marius Rehn (ICU, NR), Juan Duchesne (Surg, US)

Panelists: Lars Helsten (ICU, NO), Kristofer Nilsson (ICU, SE)

14.00	A trauma surgeons view of an unstable patient, decision making and the anesthetic team collaboration – Juan Duchesne (Surg, US)
14.10	Mass casualties- anesthesia and intensive care aspects and lessons from the recent conflict in Israel TBA
14.20	RIBCAP-HEMS project - Axel Großstück (ICU, DE)
14.30	ECMO in selected trauma patients- latest experience from the conflict in Israel – Gad Shaked (Surg, IL)
14.40	REBOA ARREST trial – Where are we and where are we heading?- Jostein Brede (ICU, NO)
14.50	Pre-clinical hypovolemia research - Lars Øyvind Høiseth (ICU, NO)

Session 13: EVTm rising technologies: Imaging, devices, endografts and more

6 min talk + 4 min discussion

Chairs: Yosuke Matsumura (ICU, JP), Junichi Matsumoto (IR, JP) and Anahita Dua (Vasc, US)

Panelists: Shahram Aarabi (Vasc, US), Anna Romagnoli (Vasc, US), Giuseppe Ascianto (IR, SE), Pierpaolo Biondetti (IR, IT)

15.00	CTA – what is out there and what is new? Hybrid suite, ER and more - Junichi Matsumoto (IR, JP)
15.10	Ultrasound - Can we see better, when to use it and for what? - Maria Antonella Ruffino (IR, IT)
15.20	New endografts on the market and coming soon (US and EU) - Greg Magee (Vasc, US)
15.30	New Embolization agents - what is on the market and what is coming? - Anna Maria Ierardi (IR, IT)
15.40	pREBOA in focus- data! Chance Spalding (Surg, US)

15:50	Hybrid ER, RAPTOR and implementing these technologies – experience, what about the limitations? - Pirkka Vikatmaa (Vasc, FI)
16:00	Endovascular shunt-what is it, experimental data and WHEN to use? Johan Millinger (Vasc, SE)
16.10	Coffee and industry exhibition
Session 14: EVTm and interventional radiology - Bleeding control, embolization agents, new technologies What to use and when for bleeding control?	
Chairs: Anna Maria Ierardi (IR, IT) and Maria Antonella Ruffino (IR, IT)	
Panelists: Mario D’Oria (Vasc, IT), Giuseppe Ascitutto (IR, SE), Adenaur Gomez (Vasc, BR)	
16.30	Surgeon, anesthesiologist, radiologist, emergency doctor: who does what - Hayato Kurihara (Surg, IT)
16.40	IR team: The prompt activation in the management of emergency bleeding - Jan Raupach (IR, CZ)
16.50	Hybrid room: what has changed in endovascular approach for bleeding control? – Giuseppe Ascitutto (IR, SE)
17.00	Endovascular thrombectomy –We can get good results! examples – David McGreevy (Vasc, SE)
17.10	Post Partum Hemorrhage- how to save the uterus – Pierpaolo Biondetti (IR, IT)
17.20	Evidence- Where do we stand with guidelines? When to embolize and when other methods in trauma? Federico Coccolini (Surg, IT)
17.35	Session 15: EVTm Society meeting (open to all)
18.45	Hosted by Boris Kessel (IL), Chuck Fox (US) Agenda: latest activities, Economic summary, elections results, Committees, Future planes
19.15	Symposium Dinner - Place TBA

Saturday October 19th

08.00	Coffee and Industry Exhibition
Session 16: Aneurysm ruptures: Endo, open and hybrid aspects	
6 min talk + 4 min discussion	
Chairs: Sofia Strömberg (Vasc, SE), Magnus Jonsson (Vasc, SE)	
Panelists: Anahita Dua (Vasc, US), Anna Romagnoli (Vasc, US), Joao Sahagoff (Vasc, BR), Shahram Arabi (Vasc, US)	
08.30	What graft to use in ruptures AAA? Options? Technical aspects - Zoran Rancic (Vasc, AT)
08.40	What graft to use in ruptured Thoracic AA? Options? Technical aspects - Magnus Jonsson (Surg, Vasc, SE)
08.50	Adjunct techniques in ruptures: Visceral endografts and Technical aspects - Greg Magee (Vasc, US)
09.00	Adjunct techniques in ruptures: Coils and embolization agents, what can be used to prevent endoleaks? - Artai Pirouzram (Vasc, SE)
09.10	Post-operative aspects of the ruptured patient and ICU care (both for Open and endo) - Erika Mitchell (Vasc, US)
09.20	Local anesthesia in rAAA? Hemodynamic unstable? When? How? - Carl Wahlgren (Vasc, SE)
09.30	Abdominal compartment in the ICU- what, when and how to decompress? - Khatereh Djavani Gidlund (Vasc, SE)
Session 17: Trauma and vascular controversies; New civilian and military developments in bleeding control	
6 min talk + 4 min discussion	
Chairs: Kristina Doklestić Vasiljev (Surg, SR), Chuk Forx (Vasc) and Mansoor Khan (Surg, UK)	
Panelists: Shahram Aarabi (US), Carl Wahlgren (SE), Johan Millinger (SE), Laura Moore (Surg, US)	
09.40	New developments in bleeding care in the pre hospital and emergency room settings; What’s new? Mansoor Khan (Surg, UK)
09.50	EVTm integrated in trauma service reduces time to hemostasis? - Jonny Morrison (Vasc, US)
10.00	Integrating Endo and hybrid for trauma patients in Shock and Trauma Baltimore - Anna Romagnoli (Vasc, US)
10.10	Endovascular management of Non-traumatic bleeding: how to do it/think in place with low resources? Adenauer Goez (Vasc, BR)
10.20	Vascular trauma and use of shunts - data and cases from Ukraine - Yulia Nahaliuk (Vasc, UA)
10.30	Vascular injuries in the current conflict Israel; data; what do we know? - Viktor Bilman (Vasc, IL)
10.40	Open and endo in recent war injuries in Israel; cases, lessons and how would we do in the future? – Dmitry Shapovalov (Vasc, IL)
10.50	Coffee and Industry Exhibition

Session 18: From prehospital and austere environment to the ICU

6 min talk + 4 min discussion

Chairs: Frank Planí (Surg, ZA), Chuck Fox (Vasc, US), Chance Spalding (Vasc, US)

Panelists: Adenauer Goes (Vasc, BR), Manuel Garcia-Toca (Vasc, US), Yulia Nahaliuk (Vasc, UA), Viktor Bilman (Vasc, IL)

11.10	Developing a Helipad to THOR Process - Laura Moore (Vasc, US)
11.20	Vascular access in pre hospital settings – Chris Bishop (Emerg, ICU, UK)
11.30	Current use of REBOA in Pre hospital and military settings - Chance Spalding (Surg, US)
11.40	Vascular damage control in limited resources environment: reports from Amazon - Adenauer Goes (BR)
11.50	Tips and tricks , shunts and more in vascular trauma - Shahram Aarabi (Vasc, US)
12.00	Endovascular management of high grade TBAI and Axilosubclavian injuries- practical tips and tricks- Manuel Garcia-Toca (Vasc, US)
12.10	Low-cost FAA/REBOA simulators for training and training experience in Spain - Josep Chorro (ICU,SP)
12.20	Building functional ED ECMO program; How does it work in Turkey?– Emre Özluer (ED, TR)
12.30	ICU modern care of battle injuries- more lessons from the recent conflict- TBA
12.40	Closing remarks, from EVTm to JEVm and more - Tal Hörer (SE)

13:00 Grab and go lunch

Round table discussion forum (by pre-registration only to hilda@mkon.se or lotta@mkon.se)

1. **Mass casualties' lessons** recent events Thursday 17th October 2024 14:30-16:30 Campus room TBA
2. **Intensive care and anesthesia lessons** in recent ongoing conflicts 18th October 2024 08:00-10:00 Campus room TBA
3. **Battlefield bleeders** up-to-date experience and data 18th October 2024 14:00-16:00 Campus room TBA