



9th EVT^M Symposium

HOT TOPICS in EndoVascular resuscitation and Trauma Management

Symposium chairs:

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

Scientific committee:

Boris Kessel (Surg, IL), Frank Plani (Surg, ZA), Ernest 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 Coccolini (Surg, IT), Maria Antonella Ruffino (IR, CH), Pirkka Vikatmaa (Vasc, FI),

Stacy Plotkin (Vasc, US)

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/PHEM- Emergency medicine/pre-hospital)

Thursday October 17 th	
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 discussion Chairs: Anna Maria Ierardi (IR, IT), Laura Moore (Surg, US) and Chuck Fox (Vasc, US) Panelists: Elina Quiroga (Vasc, US), Erica Mitchell (Vasc, US), Anahita Dua (Vasc, US), Lionel Lamhaut (ICU, FR), Zoran Rancic (Vasc, CH)	
07.45	Opening remarks – Boris Kessel (Surg, IL) and Chuck Fox (Vasc, US) Greetings from the local committee – David McGreevy (Vasc, SE)
08.00	Keynote lecture (20 minutes): 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	South African experience and trends in bleeding care. Where do we stand? Can endo help us? – Frank Plani (Surg, ZA)
09.00	Current trends in interventional radiology for bleeding control, what's new and what's coming? – Anna Maria Ierardi (IR, IT)
09.10	Current developments in emergent (bleeders) vascular surgery in the US. 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), Elina Quiroga (Vasc, US), Artai Pirouzram (Vasc, SE)	
09.20	Keynote lecture (20 minutes): Past, present, and future techniques for open, endo and hybrid hemorrhage control. How, when and what to use? – Ernest Moore (Surg, US)
09.40	Extremity trauma: Is it still only open surgery? When endo? Examples – Chuck Fox (Vasc, US)
09.50	Visceral bleeding: When to choose endo or hybrid surgery? Endografts/Colis and more – Erica Mitchell (Vasc, US)
10.00	Embolization in trauma – When and how to do it? How to choose and use? – Maria Antonella Ruffino (IR, IT)
10.10	Endovascular thrombectomy – Is it taking over? When and when not? When open thrombectomy? – Anahita Dua (Vasc, US)
10.20	Endografts for visceral and peripheral bleeders – How to choose, how to use and what to know? – Greg Magee (Vasc, US)
10.30	Best Current Management of Pediatric Vascular Injuries: When Conservative; When Open; Endo? – Elina Quiroga (Vasc, US)
10.40	Coffee mingle and industry exhibition
Session 3: Advancements for bleeding patients (trauma and non-trauma) and technological developments	
6 min talk + 4 min discussion Chairs: Ernest Moore (Surg, US), Erica Mitchell (Vasc, US) Panelists: Mario D'oria (Vasc, IT), Joakim Jorgensen (Vasc, NR), Maria Antonella Ruffino (IR, IT), Peter Hilbert-Carius (ICU, DE)	
11.10	What is new/different in endovascular resuscitation 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: Educating the Future Trauma and Vascular Surgeon Joint EVTM session with the European Society for Trauma & Emergency Surgery (ESTES)	
6 min talk + 4 min discussion	
Chairs: Joakim Jorgensen (Vasc, NR), Carl Montan (Vasc, SE)	
Panelists: Paul Puchwein (Ort, AT), Juan Duchesne (Surg, US), Jonny Morrison (Vasc, US), Khatereh Djavani Gidlund (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	Are vascular surgeons necessary for trauma and non-trauma bleeders/ECMO? How should we collaborate and educate? – Carl Montán (Vasc, SE)
12.50	Vascular surgeons should be educated in trauma and vice versa? How to build effective collaboration? – Carl Wahlgren (Vasc, SE)
13.00	Abdominal compartment syndrome How to avoid missing it, how to monitor and treat it, and how to educate residents – Boris Kessel (Surg, IL)
13.10	Open and endovascular aspects of vascular trauma in modern times – how do we educate future surgeons? – Juan Duchesne (Surg, US)
13.20	Specialists in Training corner – Intersociety collaboration to promote education Y-ESTES and EVTM-ST – Gabriele Bellio (Surg, IT)
13.30	Lunch
Session 5: EVTM "survival games" Endo vs. Open – or perhaps Hybrid?	
6 min talk + 4 min discussion	
Chairs: Stacy Plotkin (Vasc, US) and David McGreevy (Vasc, SE)	
Panelists: Joakim Jorgensen (Vasc, NR), Zoran Rancic (Vasc, CH), Per Skoog (Vasc, SE), Khatereh Djavani Gidlund (Vasc, SE)	
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 a CRITICAL tool for unstable bleeding patients – David McGreevy (Vasc, SE)
15.20	Debate: Forget REBOA, OPEN SURGERY is the way forward! – Jonny Morrison (Vasc, US)
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), Juan Duchesne (Surg, US), Giuseppe Ascititto (Vasc, SE)	
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	trends in Blunt Thoracic Aortic Injury: Treatment strategies 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 Pseudocoarctation 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) Lionel Lamhaut and Marius Rehn (ICU, NR)	
Panelists: Elina Quiroga (Vasc, US), Emre Özluer (Emerg TR), Amit Frenkel (ICU, IL), Peter Hilbert-Carius (ICU, DE), Laura Moore (Vasc, US)	
17.00	Keynote lecture (20 minutes): Intensive care from the street – our experience, results and future – Lionel Lamhaut (ICU, FR)
17.20	eCPR – Current status and future aspects – Marius Rehn (ICU, NO)
17.30	Endovascular optimized resuscitation for out of hospital cardiac arrest' – Halden Hutchinson-Bazely (ICM/PHEM, UK)
17.40	Emergency room ECMO Indications, practical aspects and limitations – Emre Özluer (Emerg, TR)
17.50	Adjunct techniques in ruptures: Visceral endografts and Technical aspects – Greg Magee (Vasc, US)
18.00	Hybrid Room: How has the endovascular approach to bleeding control evolved? What can be achieved? – Giuseppe Ascititto (Vasc, SE)
18.10	Intestinal ischemia after endovascular resuscitation – Bjørn Farbu (ICU, NO)
18.20	Cardiac arrest and REBOA? Experimental data and future aspects – Emanuel Dogan (ICU, SE)
18.45	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), Giuseppe Ascuitto (Vasc, SE), Jonny Morrison (Vasc, US)

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 artery 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 Aarabi (Vasc, US)

09.00 Endovascular or open surgery in thoracic aortic trauma. Overview, what to do and when? – Zoran Rancic (Vasc, CH)

09.10 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 Joint session with the World Society of Emergency Surgery (WSES)

6 min talk + 4 min discussion

Chairs: 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), Harriet Tucker (PHEM, UK)

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 Plani (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 Joint session with the Israeli Trauma Society

6 min talk + 4 min discussion

Chairs: Itay Zoaretz (Surg, IL) and Tal Hörer (Vasc, SE)

Panelists: Juan Duchesne (Vasc, US), Chuck Fox (Vasc, US), Frank Plani (Surg, ZA), Ernest Moore (Surg, US), Laura Moore (Surg, US)

10.40 Israeli medical system response on 7th October mass casualties' event. Numbers and preliminary lessons. – Asaf Kedar (Surg, IL) Recorded

10.50 Surgical Department experience on October 7th attack in Israel – Morris Batumsky (Surg, IL) Recorded

11.00 TBA – Maya Pran (Surg, IL) Recorded

11.10 We sure could use REBOA. Lessons and examples – Itay Zoaretz (Surg, IL)

11.20 A single trauma center experience with Mega Multiple Casualties Incident – Yulia Elobra (Surg, IL) Recorded

11.30 Vascular injuries in Mega Multiple Casualties Incident Oct 7th – Dimitry Shapovalov (Vasc, IL) Recorded

11.40 REBOA in severe brain injury: fatal combination or treatment alternative? – Hagar Halevy Shahar (Surg, IL) Recorded

11.50 Rare complications in abdominal trauma – cases with short discussion – Guy Golani (Surg, IL)

12.00 TBA

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: Maria Wikström (Surg, SE), Jostein Brede (ICU, NO), Marius Rehn (ICU, NO), Peter Hilbert-Carius (ICU, DE)

12.10 ESVS new Vascular Trauma Guidelines: Main points to know – Carl M Wahlgren (Vasc, SE)

12.20 Personalizing antithrombotic medications post revascularizations – what's the data? How to think after endo? – Anahita Dua (Vasc, US)

12.30 PROOVIT trauma vascular registry – what does the data from USA say? More endo? – Jonny Morrison (Vasc, US)

12.40 Endovascular Management of Traumatic Inferior Vena Cava Injuries: A Five-Year Experience and Literature Analysis – Marco Franchin (IT)

12.50 ERICA ARREST study – Halden Hutchinson-Bazely (ICM/PHEM, UK)

13:00 Endovascular shunt-what is it, experimental data and WHEN to use? – Johan Millinger (Vasc, SE)

13.10 Lunch

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: Kristofer Nilsson (ICU, SE) TBA	
14.00	A Trauma Surgeon's Perspective on Managing Unstable Patients: Decision-Making and Collaboration with the Anesthetic Team – Juan Duchesne (Surg, US)
14.10	Mass casualties – Anesthesia and intensive care aspects and lessons from the recent conflict in Israel – Amit Frenkel (ICU, IL) Recorded
14.20	RIBCAP-HEMS project – Axel Großstück (ICU, DE)
14.30	ECMO in selected trauma patients – latest experience from the conflict in Israel – Guy Golani (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 Høiseith (ICU, NO)
15.00	REBOA UK- experience, lessons från UK and how to proceed after the UK REBOA trial? Harriet Tucker (PHEM, UK)
Session 13: EVTm rising technologies: Imaging, devices, endografts and more	
6 min talk + 4 min discussion	
Chairs: Yosuke Matsumura (ICU, JP) and Anahita Dua (Vasc, US)	
Panelists: Shahram Aarabi (Vasc, US), Pierpaolo Biondetti (IR, IT), Viktor Bilman (Vasc, IL), Zoran Rancic (Vasc, CH)	
15.10	CTA – what is out there and what is new? Hybrid suite, ER and more – Junichi Matsumoto (IR, JP) Recorded
15.20	Ultrasound – Can we see better, when to use it and for what? – Maria Antonella Ruffino (IR, IT)
15.30	New endografts on the market and coming soon (US and EU) – Greg Magee (Vasc, US)
15.40	New Embolization agents – what is on the market and what is coming? – Anna Maria Ierardi (IR, IT)
15.50	pREBOA in focus – data! – Chance Spalding (Surg, US)
16.00	Hybrid ER, RAPTOR and implementing these technologies – experience, what about the limitations? – Pirkka Vikatmaa (Vasc, FI)
16.10	Specialists in Training corner – Nitric Oxide (NO) donator in ischemia – can it help? – Anna Stene Hurtsén (Vasc, SE)
16.20	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'Orta (Vasc, IT), Adenauer Goes Jr (Vasc, BR), Pirkka Vikatmaa (Vasc, FI), Manuel Garcia-Toca (Vasc, US), Yulia Nahaliuk (Vasc, UA),	
16.40	Embolization in bleeders – What to use and how? – Pierpaolo Biondetti (IR, IT) and Anna Maria Ierardi (IR, IT)
16.50	IR team: The prompt activation in the management of emergency bleeding – Jan Raupach (IR, CZ)
17.00	Percutaneous mechanical thrombectomy: an effective treatment option for acute limb ischemia – Anahita Dua (Vasc, US)
17.10	Postpartum 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)
17.30	Session 15: EVTm Society meeting (open to all)
18.45	Hosted by Boris Kessel (IL), Chuck Fox (US) and Artai Pirouzram (SE) Agenda: latest activities, Economic summary, elections results, Committees, Future planes
19.15	Symposium Dinner – Makeriet Örebro (City center)

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: Magnus Jonsson (Vasc, SE), Per Skoog (Vasc, SE) and Jonny Morrison (Vasc, US)	
Panelists: Shahram Aarabi (Vasc, US), Johan Millinger (SE), Adenauer Goes Jr (Vasc, BR)	
08.10	Keynote lecture (20 minutes): Development of Endo in acute vascular surgery – Where are we heading? Zoran Rancic (Vasc, AT)
08.30	What graft to use in ruptured Thoracic AA? Options? Technical aspects – Magnus Jonsson (Vasc, SE)
08.40	How to choose open or endo in rAAA? How do we do? Gothenburg experience and tips – Per Skoog (Vasc, SE)
08.50	Adjunct techniques in ruptures: Coils and embolization agents, what can be used to prevent endoleaks? – Artai Pirouzram (Vasc, SE)
09.00	Post-operative aspects of the ruptured patient and ICU care (both for Open and endo) – Erika Mitchell (Vasc, US)
09.10	Abdominal Compartment Syndrome in the ICU: What, When, and How to Perform Decompression? – Carl Wahlgren (Vasc, SE)
09.20	Abdominal compartment in the ICU – what, when and how to decompress? – Khatereh Djavani Gidlund (Vasc, SE)
	Coffee and Industry Exhibition
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), Chuck Fox (Vasc)	
Panelists: Shahram Aarabi (US), Carl Wahlgren (SE), Johan Millinger (SE), Laura Moore (Surg, US)	

09:40	Keynote Lecture (20 minutes): Vascular trauma in South Africa – my experience, developments and future – Frank Plani (ZA)
10:00	EVTM integrated in trauma service reduces time to hemostasis? – Jonny Morrison (Vasc, US)
10:10	Integrating Endo and hybrid for trauma patients – Chuck Fox (Vasc, US)
10:20	Endovascular management of non-traumatic bleeding: how to do it/think in place with low resources? – Adenauer Goes Jr (Vasc, BR)
10:30	Vascular trauma and use of shunts – data and cases from Ukraine – Yulia Nahaliuk (Vasc, UA)
10:40	Vascular injuries in the current conflict Israel; data; what do we know? – Viktor Bilman (Vasc, IL) Recorded
10:50	Open/endo recent war injuries in Israel; cases, lessons and how would we do in the future? – Dimitry Shapovalov (Vasc, IL) Recorded
Session 18: From prehospital and austere environment to the ICU	
6 min talk + 4 min discussion	
Chairs: Frank Plani (Surg, ZA), Chuck Fox (Vasc, US), Chance Spalding (Vasc, US)	
Panelists: Adenauer Goes Jr (Vasc, BR), Manuel Garcia-Toca (Vasc, US), Yulia Nahaliuk (Vasc, UA), Viktor Bilman (Vasc, IL)	
11.00	Developing a Helipad to THOR Process – Laura Moore (Vasc, US)
11.10	VA ECMO in the management of trauma associated cardiogenic shock – Chris Bishop (ICU, UK)
11.20	Current use of REBOA in Pre-hospital and military settings – Chance Spalding (Surg, US)
11.30	Vascular damage control in limited resources environment: reports from Amazon – Adenauer Goes Jr (BR)
11.40	Tips and tricks, shunts and more in vascular trauma and post op how to – Shahram Aarabi (Vasc, US)
11:50	Endovascular management of high grade TBAI and Axilosubclavian injuries – practical tips and tricks – Manuel Garcia-Toca (Vasc, US)
12.00	Low-cost FAA/REBOA simulators for training and training experience in Spain – Josep Chorro (ICU, SP)
12:10	Building functional ED ECMO program; How does it work in Turkey? – Emre Özluer (ED, TR)
12:20	ICU modern care of battle injuries – more practical lessons from the recent conflict – Amit Frenkel (ICU, IL) Recorded
12.30	Closing remarks, from EVTm to JEVm and more – Tal Hörer (Vasc, SE), David McGreevy (Vasc, SE)
13:00 Grab and go lunch	

Round table discussion forum

1. **Mass casualties' lessons** recent events: **17th October 2024 14:30–16:00** room X1403
2. **Intensive care** and anesthesia lessons in recent ongoing conflicts: **18th October 2024 08:00–09:30** room X1403
3. **Battlefield bleeders** up-to-date experience and data: **18th October 2024 15:10–16:30** room X1403