



EndoVascular resuscitation *and* Trauma Management (EVTM)

Hands-on Workshop 21-22 September 2023

Örebro University Hospital, Sweden



Local team: TBA

Target: Surgeons, Vascular, IR, ED, Intensivists, Trauma, civilians and Military with interest in trauma/bleeding/resuscitation, emergency & pre-hospital teams

Date: 21-22 September 2023 in Örebro, Sweden

Workshop Director: Tal Hörer and David McGreevy

Workshop Secretary: asa.strandberg@regionorebrolan.se

Registration: jevtm@regionorebrolan.se

Cost: 500€, (400€ for EVTSM Society members) cover expenses only

Partners: TBA

The aim of this two day workshop is to train, stimulate discussion, **mutual learning and sharing** of experiences while practicing EndoVascular resuscitation *and* Trauma Management (EVTM) using a multidisciplinary team approach with emphasis on local resources. “No ego, just good science, care and collaboration” is the main motion of the event. **It is built on an individual, professional level** and we will together explore different methods for resuscitation, bleeding control and trauma management. Some methods used clinically world-wide while some are under development and have been used in selected patients. This workshop concentrates on basic and advanced aspects of open and endovascular bleeding control techniques. We will combine open and endo aspects with vascular access, angiography, embolization, endografts, shunts and other endo/hybrid solutions for the unstable patient. Hemodynamic instability in focus with trauma, non-trauma, bleeders and non-bleeders.

We will focus on clinical data and lessons learned from 20 years use of these methods in clinical practice.

- Vascular access:
 - Different methods (blind, doppler, ultrasound, fluoroscopy and cut down)
- Aortic Balloon Occlusion (REBOA) basic and advanced methods and SAAP
- Basic/advanced angiography principles and practical tips
- Damage Control EVTm and Bailout methods - Open, endo and hybrid
- Maintaining and closing a vascular access
- Basic and advanced postoperative considerations
- Up-to-date research and clinical experience
- ABOTrauma Registry cases; Trauma and non-trauma
- Knowledge of basic/advanced material and new technologies on the market
- Endografts, embolization material and balloons on the market
- Intensive training on live tissue
- ICU and post-operative aspects
- Basics for building an “EVTm service”; Tools needed
- Advanced experimental methods in resuscitation using REBOA and ECMO with CPR live tissue models.

The workshop is individually tailored during the practical parts (advanced and basic as needed). Participants will get basic training and knowledge of vascular access, angiography and REBOA placement and other basic catheters and hybrid tools as part of the EVTm concept. This will be combined with open techniques and bleeding control maneuvers. The workshop has been certificated by the EACCME and acknowledged by collaboration with societies like the European Society for Trauma and Acute Care Surgery, the European vascular society and others.

Program at the animal lab training and dry lab/cadaver lab

Day 1:

Talks and discussions:

Bleeding control issues; the hemodynamic unstable patients. Short presentations on vascular access, how to, complications, indications for REBOA (pREBOA, iREBOA), Abdominal compartment and complications. Data regarding EVTm and REBOA will be presented. Different hemodynamic instabilities will be discussed as GI bleeding, trauma, Gyn, rAAA and others. Basic and advanced techniques for diagnostic and treatment of hemodynamic instability. Endografts, embolization agents, balloons and other tools will be presented and discussed.

Day 2:

07:00 Gathering/changing at the Training Center

07:15-08:40 “EVTm hands-on review - what can we do?” REBOA practice (Cadaver)
(Preliminary - if available, to be announced the day before)

08:40-09:30 Breakfast with the industry. Short presentations on EVTm and up to date data.

Hands-on animal lab including:

Every station is led by a highly experienced instructor with one-to-one training on live tissue as well as group scenario discussions. (Lunch and coffee will be served in the lab) Changing stations according to interest is encouraged.

Practical training points in the animal lab:

1. Material usage in bleeding patients, general considerations and management scenarios
2. Open techniques for bleeding control and combinations with endo/hybrid.
3. Vascular Access
 - Basic principles/advanced methods
 - Cut down techniques
 - Endoshunts (and shunts)
 - Hybrid procedures
 - Puncture methods
 - Seldinger technique
 - The failing access - alternatives
 - Venous access and Ultrasound
 - Basic and advanced methods
4. Upgrading/introducers/guide wires

HANDLED BY

Dept. of Cardiothoracic and Vascular Surgery, Prof. Tal Hörer

DATE

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5. REBOA

- Material and REBOA kit
- Deflation and re-positioning
- Intermittent/Partial inflation (MAP as target - iREBOA/pREBOA)
- Ongoing bleeding practice
- CPR procedures and pending arrest

6. Balloon in alternate locations (Iliac, Subclavian, Brachiocephalic trunk/Zone 1 neck)

7. Aortography and Angiography considerations (type, volume etc.)

8. Endografts/embolization separated groups

9. Bailouts in endovascular and hybrid surgery

15:00 End of workshop and evaluation; Diploma

“No ego, just good science, clinical care and cooperation”