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EndoVascular resuscitation *and* Trauma Management (EVTM)

Hands-on Workshop 25–26 January 2024

Örebro University Hospital, Sweden



EVTM instructors (Preliminary/TBA)

Gad Shaked (Trauma, IL), Anna Maria Ileradi (IR, IT), Frank Plani (Trauma, ZA), Sheldon Tepperman (Trauma, US), Federicco Cocolini (Trauma, IT), Maria Antonella Ruffino (IR, IT), Pierpaulo Biondetti (IR, IR), Calle Whalgren (Vascular, SE), Zoran Raqncic (Vascular, Sw)

Local team: Tal Hörer, David McGreevy, Kristofer Nilsson, Artai Pirouzram

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

Date: 25–26 January 2024

Workshop Directors: Tal Hörer and David McGreevy

Workshop Registration: https://mkon.nu/evtm_workshop/registration_form

Cost (cover expenses only): 600Eu. 500Eu for EVTM Society members

Place: Facility for experimental studies and surgical training, Örebro University Hospital.

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. We are all here to share, learn and develop, for our patients.



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The workshop is built on an individual, professional level and we will together explore different methods for resuscitation, bleeding control, hemostasis, trauma management and bailouts. Some methods are used clinically world-wide, while some are under development and have been used on selected patients. This workshop concentrates on basic and advanced aspects of *open and endovascular* bleeding control techniques. We will combine open hemostasis and endo aspects with vascular access, angiography, embolization, endografts, shunts and other endo/hybrid solutions for the unstable patient. Hemodynamic instability with a focus on trauma, non-trauma, bleeders and non-bleeders. From ruptures to gastrointestinal and gynecological bleeders with a wide range of hemodynamic instabilities in focus. We will explore how methods used by some disciplines can be used by others.

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

- Vascular access:
 - Different methods (blind, doppler, ultrasound, fluoroscopy and cut down)
 - o Its use in hemodynamic unstable patients
- 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
- Cases/discussions
- Knowledge of basic/advanced material and new technologies on the market
- Endografts, embolization material on the market, and what to use and when
- Open and endo/hybrid hemostasis. From junctional bleeding to rAAA
- Intensive training on live tissue
- ICU and post-operative aspects (such as IAH and ACS and its treatment)
- Basics for building an "EVTM service"; tools needed
- Advanced experimental methods in resuscitation using REBOA and ECMO with CPR on live tissue models.
- When should we choose open surgery and stop playing with endo?

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, endografts, embolization 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



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societies such as the European Society for Trauma and Acute Care Surgery, the European Vascular Society and others.

Program at the live tissue lab training and dry lab/cadaver lab.

Day 1:

The day starts at <u>12:00</u> with <u>Lunch at the training facilities</u> at Örebro University Hospital, Sweden.

Bleeding control issues; hemostasis; the hemodynamic unstable patients. Short presentations on vascular access, how to, complications, indications for REBOA (pREBOA, iREBOA), Abdominal compartment and complications. Endografts, embolization, choosing correct products etc. Data regarding EVTM 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. Methods to use endografts, embolization agents, balloons and other tools will be presented and discussed. When open surgery is the best option and when not to play endo. Tips and tricks, bailouts.

Day 2:

07:00 Gathering/changing at the Training Center

07:15–08:40 "EVTM hands-on review – what can we do?" Access, REBOA and more. (Cadaver) (Preliminary – if available, to be announced the day before)

08:40-09:30 Breakfast with the industry.

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. Dedicated stations per discipline/area according to the groups.

Practical training points in the animal lab:

- 1. Material usage in bleeding patients, general considerations and management scenarios
- 2. Open techniques for bleeding control/hemostasis and combinations with endo/hybrid.
- 3. Vascular access



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- Basic principles/advanced methods
- Cut-down techniques
- Endoshunts and shunts
- Hybrid procedures
- 4. Upgrading/introducers/guide wires
- 5. REBOA
 - Material and REBOA kit
 - Deflation and re-positioning
 - Intermittent/partial inflation (MAP as target – iREBOA/pREBOA)

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- Puncture methods
- Seldinger technique
- The failing access alternatives
- Venous access and ultrasound
- Basic and advanced methods
- Ongoing bleeding practice
- CPR procedures and pending arrest
- 6. Balloon in alternate locations (Iliac, Subclavian, Brachiocephalic trunk/Zone 1 neck)
- 7. Hybrid procedures for hemostasis junctional bleedings, balloons/xchange
- 8. Aortography and angiography considerations (type, volume, etc.)
- 9. Endografts/embolization advanced as needed what, when, how
- 10. Bailouts in endovascular and hybrid surgery

All training aspects will be modified to the participants' level and interest.

15:00 End of workshop and evaluation/feedback; Diploma

Email us for interest and follow www.jevtm.com and social media for details

"No ego, just good science, clinical care and collaboration"

