

EndoVascular resuscitation *and* Trauma Management (EVTM)

Hands-on Workshop

Örebro University Hospital, Sweden 16th October 2024



EVTM instructors

Chance Spalding (Trauma, US), Frank Plani (Trauma, ZA), Boris Kessel (Trauma, IL), Joakim Jørgensen (Vasc, NR), Andreu Martínez H (Prehosp, Sp), Josep Chorro (Prehosp, Sp), Artai Pirouzram (Vasc, SE) (not final, TBA)

Local team: Tal Hörer, David McGreevy, Kristofer Nilsson, Nina Adolfsson, Rami Hammadi, Johan Josefsson, Jonas Berlin, Ida Liljeholm

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

Date: 16/10 2024

Workshop Directors: Tal Hörer and David McGreevy

Workshop Registration: lotta@mkon.se or Hilda@mkon.se

Cost (cover expenses only): 500Eu. 400Eu for EVTMSociety members

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

Partners: See partner list on EVTMSymposium site via www.jevtm.com

The aim of this one-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.

The workshop is built on an individual, professional level and we will together explore different methods for resuscitation, bleeding control, hemostasis, trauma management and bail-outs. 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)
 - 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 societies such as the European Society for Trauma and Acute Care Surgery, the European Vascular Society and others.

08:00 meeting in the training center (“Technical house” near the CAMPUS USÖ)- instructions by mail till participants.

Introduction on EVTm and agenda of the day- Tal Hörer and David McGreevy

08:30–09:00 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
 - 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
5. REBOA
 - Material and REBOA kit
 - Deflation and re-positioning
 - Ongoing bleeding practice
 - CPR procedures and pending arrest

- Intermittent/partial inflation
(MAP as target –
iREBOA/pREBOA)
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. Junctional bleedings- solutions
 11. 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

REGISTRATION: lotta@mkon.se or Hilda@mkon.se

General information: tal.horer@regionorebrolan.se

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

