Emergency embolization for acute trauma-induced bleeding

Who? When? How?
Patient is dying from vascular injury!

- Triage!
- Finding on polytrauma CT?
- Elect CTA or DSA

prior to / instead of surgery?
Patient is dying from vascular injury!!

- Triage!
- Finding on polytrauma CT?
- Elect CTA or DSA?
Friday night

- 120 Km/h

7:47 p.m.
8:05 p.m.
Bike handlebar, 17 y. old
Standards?

- no technical standards

- communication
- time management
- „life insurance“

want-to-haves: aortic balloon, plugs, over the arm approach...
Guidelines?

- S3 polytrauma
- shock indices (ATLS...)
- in-house SOP
Who`s first, who`s on standby, who`s last choice?
Embolization media

endovascular techniques:
(1) coiling, plugging
(2) stent-based coiling
(3) particles
(4) glue (Histoacryl, fibrin)
(5) covered stent (self-expanding, balloon-mounted)
Embolization techniques?
Mesenteric root...
Thoracic bleeding...
Thoracic bleeding...
Better refuse...
Conclusion

✓ Find a timely interdisciplinary decision on a case-based cascade. Who`s in charge and for how long?

✓ Define SOP „acute thoraco-abdominal bleeding“ for your clinic.

✓ Be technically prepared for the „Big Five“.

✓ Save the patient!
Thank you for listening to your radiologist!
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