SUPPLEMENTAL MATERIAL
Abort procedure if technical problems like:
- severe difficulties in ultrasound (US) visualization of the artery or cannulation
- resistance when inserting guidewire, introducer or catheter
- severe bleeding
- time consuming procedure

| PHYSICIAN | PARAMEDIC |
|-----------|-----------|
| 1. Cut clothes from knee to groin | 1. Open kit – unpack – place sterile gloves for physician |
| 2. Examine with US – store image | 2. Place introducer and balloon-catheter on sterile cloth |
| 3. Note EtCO2 | 3. Prepare NaCl and Chlorhexidine – close to physician |
| 4. Fill NaCl in wash tray | 4. Put on sterile gloves |
| 5. Apply Chlorhexidine on compresses | 5. Aspirate 15 ml NaCl from wash tray in 20 ml syringe |
| 6. Wash selected area with forceps and compresses | 6. Hand physician forceps – place compresses on sterile cloth |
| 7. Fill gel into the US-cover – place it on the US-probe | 7. Apply sterile drape |
| 8. Apply US-gel on the thigh | 8. Prepare US-cover |
| 9. US-guided cannulation of a. femoralis | 9. Apply elastic band – place probe on the sterile drape |
| 10. Insert guidewire into cannulation needle, 60 cm | 10. Prepare needle with 5 ml syringe |
| 11. Remove needle – make skin incision with scalpel | 11. Ready guidewire |
| 12. Record US-video of guidewire in a. femoralis | 12. Hand physician soft end of guidewire, insert to 60 cm |
| 13. Insert introducer – remove dilatator | 13. Hand scalpel to physician |
| 14. Insert balloon-catheter, 50 cm | 14. Mount introducer and dilatator onto guidewire |
| 15. Check pulse - LEFT a. radialis | 15. Control the guidewire |
| 16. Fill balloon with 15 ml NaCl | 16. Ready balloon-catheter |
| 17. Check pulse in LEFT a. radialis | 17. Put stopcock on blue line |
| 18. Note time for balloon inflation and EtCO2 | 18. Put plug on the black line |
| 19. Suture and fixate | 19. Hand physician 20 ml syringe with 15 ml NaCl |
| 20. Place adhesive cover over REBOA-equipment | 20. Ready suture – needle-holder – scalpel |
| 21. Secure guidewire with forceps | 21. Cut suture |
| 22. Ready adhesive cover | 22. Ready adhesive cover |
| 23. Cut and remove sterile drape | 23. Cut and remove sterile drape |
### Table S2.

#### Checklist REBOA

| Patient | ID number | Date |
|---------|-----------|------|
| Time    |           |      |
| Arrival at patient | | |
| Start of REBOA procedure | | |
| Occlusion of aorta | | |
| Deflation of balloon | | |

#### Inclusion criteria

| Yes | No |
|-----|----|
| Non-traumatic cardiac arrest | |
| Age 18-75 years | |
| Less than 10 min from arrest to bystander CPR | |
| Pregnant | |
| Suspected cerebral catastrophe as etiology | |
| End stage terminal illness | |
| Hypothermic, incl drownings | |
| Strangulation | |

#### EtCO2

| Time | Yes | No |
|------|-----|----|
| Before occlusion of aorta | Palpable pulse in left radial artery before occlusion | |
| After occlusion of aorta | Palpable pulse in left radial artery after occlusion | |
| after 30 seconds | | |
| after 60 seconds | | |
| after 90 seconds | | |
| After ROSC | | |

#### Arterial blood gas after admission to hospital

| Parameter | Easy | Medium | Impossible |
|-----------|------|--------|------------|
| pH        |      |        |            |
| BE        |      |        |            |
| s-Lactate |      |        |            |
| s-K       |      |        |            |

#### Physicians comments

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