Chimney combined with periscope technique to treat an acute aortic dissection patient with aberrant right subclavian artery

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Disclosure

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I have the following potential conflicts of interest to report:

☐ I do not have any potential conflict of interest
Patient data

• 42-year old male
• Sudden onset of chest and back pain.
• On admission, his blood pressure was 200/110 mmHg.
Emergency CTA
How about branch artery

• Celiac artery, SMA, Right renal artery: FL
• Left renal artery: FL+TL
• Right iliac artery: FL+TL
• Left iliac artery: TL
• RSCA: TL+FL
First line treatment

• infusion of sodium nitroprusside and esmolol
• Oral anti-hypertension medication

• still complained unresolved back pain
Preparation for implantation

- Incision: left CCA, left brachial artery, left CFA
- Puncture: right brachial artery, right CFA
Angiography via aortic arch

Diameter of aortic arch: 31mm
Diameter of LCCA: 8.5mm
Diameter of RSCA: 8mm

RVA from RCCA
Angiography via RSCA false and true lumen respectively
Pre-implantation angiography

Aortic stent-graft: Lifetech Ankura: 38-30-200
Chimney of LCCA: 10-10 Viabahn
Periscope of RSCA: 10-15+10-10 Viabahn
Post-implantation angiography

Bare stent within chimney and periscope stent-graft
Angiography post plug in LSCA
Angiography distal of stent-graft
follow-up CTA
Thanks