Emergency EVAR for ruptured Abdominal Aortic Aneurysms: Our first experience and challenges

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Disclosure

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I have the following potential conflicts of interest to report:

☐ Consulting
☐ Employment in industry
☐ Stockholder of a healthcare company
☐ Owner of a healthcare company
☐ Other(s)

☐ I do not have any potential conflict of interest
Introduction

• First endovascular repair of thoracic aorta - 1986

• First successful EVAR - September 6, 1990

• First EVAR for RAAA – October 29, 1994
Aortic rupture - how far are we in treatment

- First endovascular repair of thoracic aorta – April 9, 2003
- First successful EVAR for AAA – January, 2005

Bulgarian first successful EVAR for rAAA -
October 14, 2022
The First case

• 65-year-old female
• Abdominal and back pain
• Ultrasound - 5 cm aneurysm with haematoma
CTA – ruptured aortic ulcer
CTA – ruptured aortic ulcer
What to do?

• Open surgical repair

• EVAR

• Inter-hospital transfer
What happened?

- Call for help
- Vascular and Endovascular council
- Inter-hospital transfer
Endovascular procedure

• General anesthesia
• Bifemoral percutaneous access
• Occlusion balloon equipment
• Ankura bifurcated stent graft
• Ankura iliac extensions
• Molding with balloon
• Duration time - 50 min.
• Discharged after 5 days.
• On dual antiplatelet therapy
Follow up on 5\textsuperscript{th} day

Follow up on 5\textsuperscript{th} month
Outcome

• For the next 3 months:
  • 3 EVAR for rAAA
  • 1 TEVAR for rTAAA
  • 2 EVAR for rAAA - in two other hospitals

• All were made by Ankura Stent-Grafts
• One patient with Perioperative mortality
• One patient with Major complications
• Four patients Discharged 5-7 days without complications
Summary

• In 2018, the healthcare system in Bulgaria began to reimburse Stent-grafts for AAA. This was the beginning of the EVARs era.

• The experience we gained over this years contributed to ascending to the next step - EVAR for ruptured AAA.

• We encourage vascular surgical institutions dealing with such life-threatening emergencies to introduce EVAR as part of their therapeutic arsenal for ruptured AAA.