Endovascular repair of carotid-subclavian arterio-arterial aneurysmal fistula; case report

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Introduction

- The management of Supraaortic post traumatic pseudo aneurysm is challenging
- The endovascular therapy is the preferred line of treatment in zone one neck injuries with much less complications

Case scenario

- Male 26 year old
- He sustained a gunshot injury at the root of the right side of the neck 3 months duration with pulsating mass at the root of the neck
  - Inlet: Supra-Clavicular fossa
  - Outlet: upper back

Presentation

Imaging

Surgery

Treatment options

Endovascular

Less invasive
Avoid sternotomy

Endovascular therapy

- Angiography through Rt femoral
- Exclusion of subclavian pseudoaneurysm by PTFE wallgraft

Challenges

- Short neck
  - Precise deployment

- The aneurysm is still patent
- Carotid pseudoaneurysm
- Deployment of another stent in the subclavian
- Exclusion of the aneurysm with patent both carotid and subclavian

Conclusion

Endovascular exclusion is better alternative for the management of supra-aortic trunk lesions; being less invasive, more simple, with less complications and equally durable