Complications After Fogarty Catheter Thromboembolectomy – Peroneal Pseudoaneurysm and Arteriovenous Fistula

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Disclosures

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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

• Fogarty catheter embolectomy is a safe and effective treatment strategy for acute limb ischemia;

• Nevertheless, complications can ensue: rupture, dissection, pseudoaneurysms (PSA), AV fistulas...

• Peroneal PSA and AV fistulas are rare and mostly result from trauma;

• Failure to diagnose these complications may lead to massive hemorrhage or severe limb ischemia;
Case Report

- 85 year-old female
- Atrial Fibillation
- Rivaroxaban
  - Suspended 1-week earlier for a colonoscopy

Take 1

- Acute Left Lower Limb Ischemia (thrombus in the femoral bifurcation)
- *Dorsalis Pedis* Pulse on the Right Side
  - Apparently uneventful thromboembolectomy (General Anesthesia)
Case Report

• Immediate post-op:
  • Excruciating left lower limb pain, cyanosis, edema, anestesia, paralysis, absent distal pulses
  • We should have performed a completion angiography!
Case Report

• Angiography:
  - Peroneal pseudoaneurysm and AV fistula
  - Coil embolization
  - Coronary Stent graft 3x26mm (Papyros SOS®)
Discussion

- Peroneal artery AVF and pseudoaneurysms are uncommon and rarely present together.

- Treatment options:
  1. Coil embolization
  2. Thrombin injection
  3. Covered Stents

Therapeutic choice is dependent on tibial vessel runoff.
- 3-vessel runoff, ischemia unlikely
- Single – vessel (peroneal) runoff: stentgrafts?
Discussion

• Most femoral embolectomies are still performed "blind".
• Many times, the catheter will tend to pass down the peroneal artery as this has the straightest course from the popliteal artery.
• Care must be taken not to overinflate the balloon in the peroneal artery, as this may disrupt the arterial wall and result in serious complications.
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Thank You For Your Attention
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