Advances In The Treatment Of Infected Femoral Pseudoaneurysms In Drug Addicts
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Disclosures

- Cordis: Speaker

Infected Pseudoaneurysms are a terrible problem that vascular surgeons are increasingly seeing in the opioid crisis. With increase in IVDA use, we wanted to evaluate the trends in the increase in treatment of groin pseudoaneurysms using National Inpatient Sample.

Primary Diagnosis:
- Aneurysm, including pseudoaneurysm of the lower extremity
  (ICD-9-CM 442.3)

Drug Abuse:
- Elixhauser comorbidity software provided by HCUP
  292.0, 292.82-292.89, 304.00-304.93, 305.20-305.93, 648.30-648.34

R² = 0.5306

Year
National Estimate
0 20 40 60 80 100 120
**Demographics**

- **Race**
  - White, 73.00%
  - Black, 16%
  - Hispanic, 6.00%
  - Other, 3.00%

- **Total Patients**: 669
- **Age**: 45 (34-58)
- **Female**: 187 (28%)

**Location**

- Midwest: 21%
- West: 49%
- South: 25%
- Northeast: 5%

**Hospital Type**

- Urban-Teaching: 77%
- Urban-Teaching: 21%
- Rural: 2%

**Payment**

- Medicaid: 23%
- Medicare: 12%
- No Charge: 32%
- Other: 9%
- Self: 9%

**Operative Approach**

- Resection of Vessel with Replacement
- Vascular Shunt or Bypass
- Aneurysm Repair

**R²**

- 0.46445
- 0.12371
- 0.01293

**What is optimal therapy for IVDA Mycotic Pseudoaneurysms?**
Surgical Options

• Ligation and Debridement/Excision with non-selective revascularization
• Ligation and Debridement/Excision with selective revascularization
• Ligation and Excision
• Stents?

Femoral pseudoaneurysm from drugs of abuse: Ligation or reconstruction?

• Performed external iliac clamping followed by assessment of distal flow (doppler/pulse ox)
• If dopplerable signal no need to reconstruct at time of surgery

Obturator Bypass
(Medial)

Proximal balloon control

• Contralateral groin access and inflation of balloon in proximal external iliac artery can prevent retroperitoneal incision in complicated anatomy
• 8-12 mm balloon Based on CTA

Clinical evaluation of covered stents in the treatment of superficial femoral artery pseudoaneurysm in drug abusers

• 29 patients with pseudoaneurysms in SFA from IVDA
• Covered stent in all of them
• 9 month follow up- no amputation, no pain in all patients
• 5 patients continued to inject at site were excluded
Emergency Hybrid Approach to Ruptured Femoral Pseudoaneurysm in HIV-positive Intravenous Drug Abusers

- Cutdown on SFA and retrograde stent in CFA
- 2 patients series with no complications in 2 years

Conclusions

- IVDA is on the rise in US and we are seeing more pseudoaneurysms we need to treat
- Data is difficult in this patient population because of poor follow-up
- Ligation may give best outcomes if dopplerable signal
- Stenting may be possible for absolute emergencies but likely will not hold up in these young non-compliant patient

THANK YOU!

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