Pseudoaneurysm from IVC Filter: Remove, AND Repair

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Disclosure

Speaker name:
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I have the following potential conflicts of interest to report:

- Consulting – Cook Medical
It started out with an uncomplicated VTE...

- 70 year old female referred to our team for IVC filter removal in August 2017
- History of DM, HTN, Aortic valve replacement, pAF on warfarin
  - Pt has been on warfarin for pAF for 3 years
HPI

- Sx of abdominal pain, subjective fever, malaise since July
- No weight loss, N/V/D
- No heart failure symptoms
- Exam: VSS, afebrile. Benign abdomen
- IVC filter placed in 2009 for DVT/PE at another facility
  - Rationale for placement unclear
    - Reports treated with warfarin for 6 months
Initial Venogram
Not the easiest extraction...
Final Venogram
Post-Extraction Course

• 2 days after removal developed fevers
• Infectious disease consulted, empiric antibiotics started
• More testing recommended...
Symptoms from...

- Duodenal perforation?
  - Upper GI: negative
  - Tagged WBC scan: negative
- Aortitis?
- SBE?
  - TEE: no vegetations or valvular issues
- Negative blood cultures
  - Empiric antibiotics continued per ID recommendations
Post-Extraction Course

• Fevers resolved 4 days post-extraction
• Abdominal pain/symptoms improved, not resolved
• Discharged 6 days after initial presentation (31 August 2017)
• On IV antibiotics with plans for ID follow up and repeat CT in 4-6 weeks
• Over the next several weeks, abdominal pain worsens
  – 20 September: repeat CT of abdomen/pelvis
4 Weeks after IVC Filter Removal
Follow Up

• 1/2/2018 seen in ID clinic
  – Doing well, abdominal pain improved
  – IV Antibiotics (Ertapenem) stopped 10/6/2017
  – On Amoxicillin-Clavulanate 875-125mg qd since
  – Plan to d/c abx in one month if remains stable
2 Months After Stent Grafts
Incidence of IVC Complications

• Data suggests ~5% major complication rate
• Caval penetration is a well-known complication of various types of IVC filters
  – up to 40% of cases, largely asymptomatic
• Celect Filter (Cook Medical) has demonstrated penetration at 9 days
  – Not longer available
• 2003: true retrievable filters are FDA approved
  – To date <50% retrieved

Thank You
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