Stent Graft Treatment of AAA With Preservation Of The Inferior Mesenteric Artery

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Disclosure

I do not have any potential conflict of interest
Case 1

• 53 y/o woman whom is s/p recent right hemicolecotomy for cecal cancer
• Routine postop imaging is noted to have a known infrarenal AAA of 4.5cm that has increased > 1 cm in 6 months
• Considerations:
  – right iliac artery aneurysm with planned coverage of the right hypogastric artery
  – left hypogastric artery has >70% stenosis at the origin
Case 1

Backtable modification

Identification of IMA

Sheath placement
Case 1

Completion Angiogram

One month post op CTA
Case 2

- Patient is a 61 year old male who was referred for significant history of claudication and with an iliac stent placed several years ago for calf claudication
- Now has severe, progressive hip claudication and impotence
- He denies any abdominal pain and has no GI symptoms such as cramping, constipation, diarrhea or bloody stools
- PMH otherwise negative
- MIPs showing small aortic aneurysm, moderate sized common iliac aneurysms
- Patent left iliac stent across iliac bifurcation and occlusion of left internal iliac
- Right external and internal iliac stenosis
normal renals
Infrarenal aorta normal for 2cm and then aneurysmal to 3.5cm
Severe stenosis at origin of large IMA
Case 2 Follow up

- Chest pain 10 days post op
- Seen in outside ER with CTA showing dissection from subclavian origin distal in the aorta to the stent graft
- Monitored with BP, and pain control
- FU in Office 3 months later
  - No chest pain
  - No hip claudication
  - No impotence
- CTA showed healing of the dissection, and patent stent graft and IMA snorkel and no endoleak.
Preservation of the IMA during repair of AAA

• Indications for preservation of IMA
  – High risk anatomy for colonic ischemia
    • Severe bilateral internal iliac disease
    • Prior colectomy
    • Untreatable severe SMA disease
  – Severe iliac occlusive disease with symptoms of pelvic ischemia

• Technical ability of fenestration or snorkel allows for preservation of IMA in such selected cases
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