Open Surgery Has An Important Role In The Treatment Of Mesenteric Aneurysms

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Good afternoon, my talk is:
Disclosures

- TMT Systems – owner and patents
The national trends in repairing visceral artery aneurysm repairs have increased. We recently did a National Inpatient Sampling database review and found that the overall number of repairs have increased, shown in purple. The green lines shows the the majority of this has occurred from increasing numbers of endovascular procedures, shown in green, while we had a simultaneous decrease in open procedures, shown in red.
However, this tables looks at outcomes from the same data set. We compared outcomes of open and endovascular repair, and there was no difference between the most important complications such as Mortality, total complications, cardiovascular complications, acute renal failure and pulmonary.
Scenarios Where Open Repair Is Necessary

- Technical
  - Tortuosity
- Branch Points and Hilum
- No landing spot
- Mycotic
Small splanchnic artery aneurysm occur from increased flow through small collateral vessels, seen in this patients CT and angiogram. Many of these patients have an occluded celiac artery, and branch aneurysms form from increased flow through small weak collaterals.
On the left, a large celiac aneurysm at the trifurcation, where there is no landing zone. On the right, you can see this aneurysm off the SMA at a branch point where covering may be difficult and flow may push out the coils.
Here is another example of a renal artery aneurysm at the hilum that there is no endovascular option. We explanted the kidney, repaired the aneurysm, and then re-implanted it in the pelvis.
This patient has a mycotic celiac aneurysm which encompassed the orifice and aorta.
Mycotic SMA & Pancreatico-duodenal Artery Aneurysm – Septic Endocarditis Patient
Access Jailed By Stent Graft
The patient went open repair with an aorta to SMA bypass with deep vein and a jump graft off that to the hepatic artery with ligation of the branches and resection of the aneurysm.
Radiology

WHEN ALL YOU HAVE IS A HAMMER
EVERYTHING LOOKS LIKE A NAIL
Conclusion