

Conflicts of interest	
•None	
	EMORY HEART & VASCULAR CENTER

Open surgery for mycotic aneurysms is not perfect

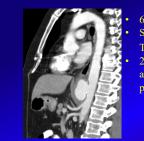
- While logical, has a mortality of at least ~40% in mAAA -> even higher in the chest
- Sick, old, infected patients do poorly with major open operations
- Endografts have a lower M+M overall

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Theoretical reasons NOT to use endografts- Dogma?

- A prosthetic endograft in an infected aorta = infected endograft
- Not removing the infected tissue creates an abscess outside the endograft
- For aorto-enteric fisulae you HAVE to replace the aorta

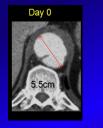
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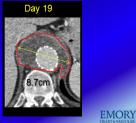


64 y/o with back pain Saccular TAA treated with TEVAR.... 2 weeks later has fever, abdominal pain and back pain

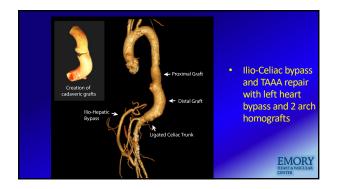
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Endograft in an infection = abscess





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But what about cases you can't/shouldn't do open?

- 44 y/o IV drug user with recurrent S, aureus endocarditis and bacteremia
- Previous aorto-bifemoral (occluded), iliac stents and many, laparotomies for bowel obstructions resulting in an <u>ileostomy</u> and short bowel syndrome
- CTA and Indium scan positive for >2cm mycotic AAA



OPEN REPAIR!

• We tried for hours to re-enter the abdomen and use femoral vein...

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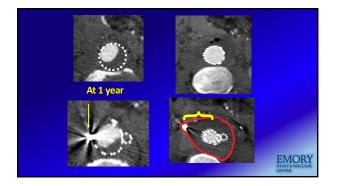
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Went endo...used a Cook Uni-iliac graft + Femoral-femoral bypass...

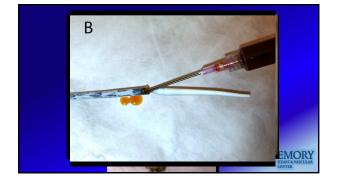
> BUT added Rifampin to the Dacron endograft (and the fem-fem)

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Rifampin with endografts Selected Techniques	
Rifampin Soaking Dacron-Based End for Implantation in Infected Aortic Aneurysms—New Application of a Time-Tested Principle	lografts
Guillermo A. Escobar, ¹ Jonathan L. Eliason, ² Justin Hurie, ³ Shipra Arya, ⁴ John E. Rectenwald, ² and Dawn M. Coleman, ² Little Rock, Arkansas	
Ann Vasc Surg. 2014 Apr:28(3):744-8.	EMOR



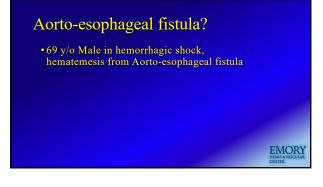
Theoretical reasons NOT to use endografts Endografts in infecte tage will immediately get infected at a set it worse You have to resect and bypass, or replace the aorta with autologous tissue (vein/homograft) or Rifampin-Dacron grafts- especially aorto-enteric fisulae Not removing the infected tissue will lead to worsening of the infection -> create an abscess in the aorta



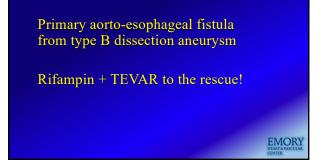


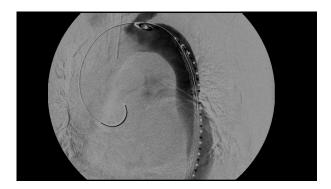


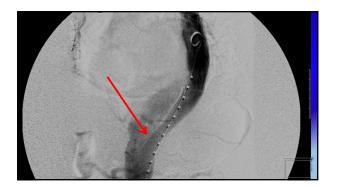
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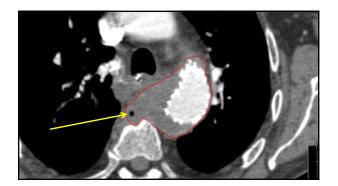




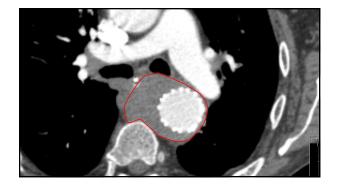
- Plan was to temporize and do definitive repair
 POD 9 had cervical esogagostomy and diversion
- •Went home with a plan for later repair

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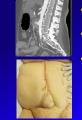








"Longer" term...



- at 1.5 years she came back with a retroperitoneal abscess
- BUT in a much better physiological state!
- Axilo-femoral and open aortic resection with a gastro-jejunostomy was needed...<u>semi-electively!</u>

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Theoretical reasons NOT to use endografts

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