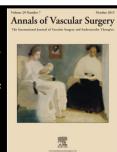


#### Commentary

It has been said that the essence of great art is simplification. In working out the details of trans-femoral exclusion of abdominal aneurysms from the aortic stream, Dr. Juan Carlos Parodi and his col- leagues have simplified aortic surgery. Thus, their work is truly artistic as well as scientific. There is no doubt that the procedure achieves its purpose. Predictably, it will be offered at first to patients who are at prohibitive risk for conventional aortic surgery. As experience grows, it will be offered to patients who are good surgical risks, even those with aneurysms smaller than the ones conventionally requiring surgical repair. During this time, complications will occur, some of which are cited in this initial clinical experience. As every interventional procedure has its own complications, new problems will arise. Opposition to the procedure will be mounted. . Now that this initial barrier is broached, new applications, including transluminal distal bypass are predictable. Such change is inevitable.

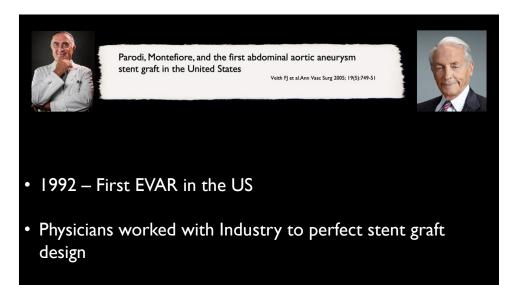




John J. Bergan, M.D. LaJolla, California

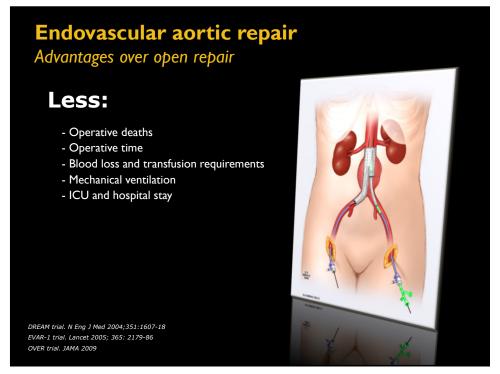
Bergan JC Ann Vasc Surg 1991;6:1991

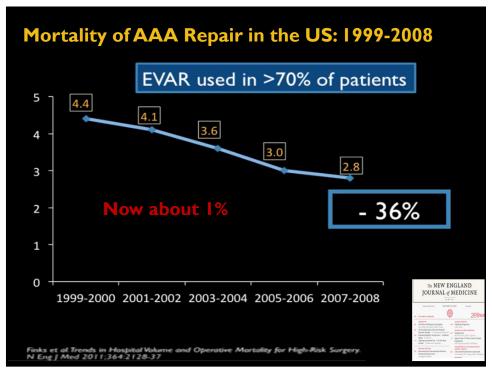
5

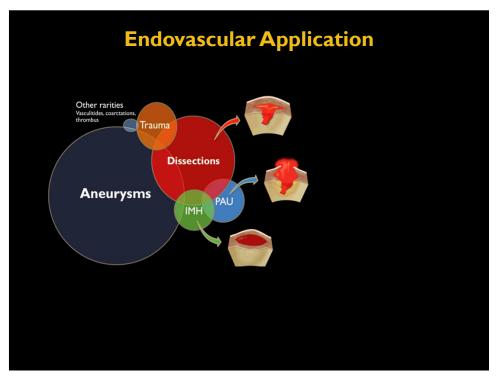


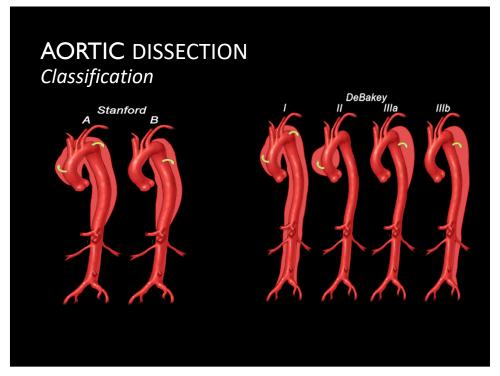
- Multiple manuscripts published on the technique
- 14 years after initial publications

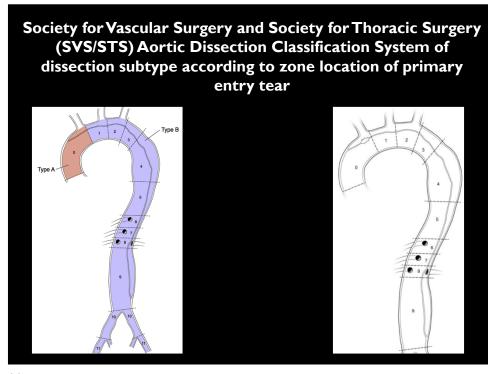


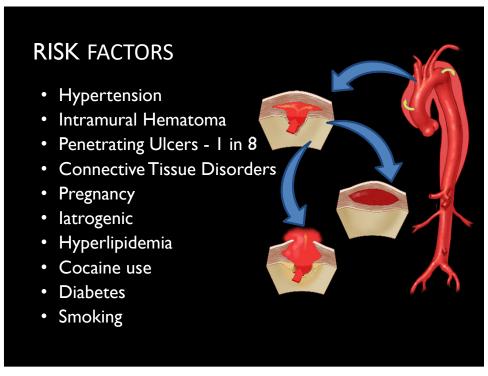


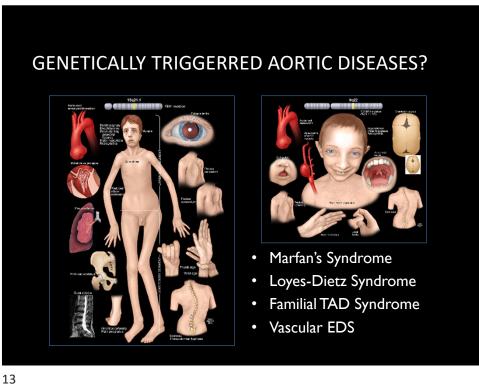


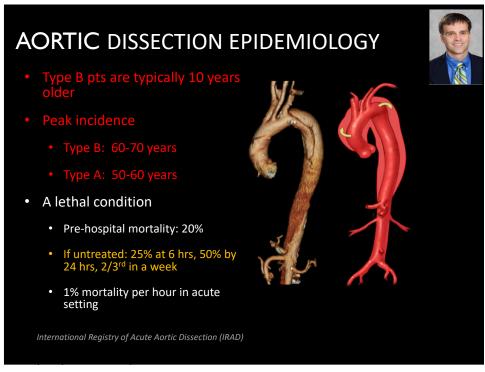


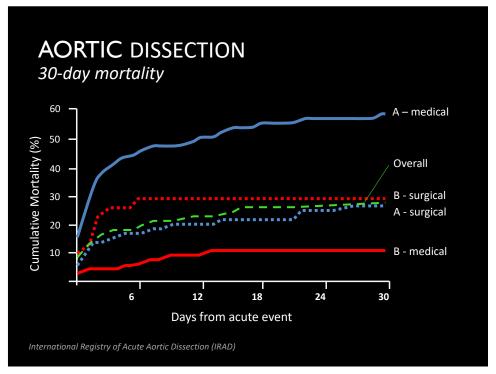


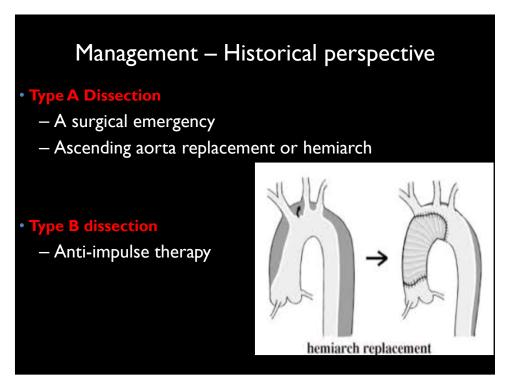








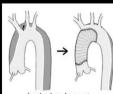




# Rethinking Management of AD

### Type A Dissection

- Limited aortic repair (ascending aorta replacement or hemiarch) <u>associated with 70% occurrence</u> of late distal aortic complications
  - Aneurysmal degeneration
  - Rupture
  - Malperfusion
  - Need for secondary or tertiary intervention



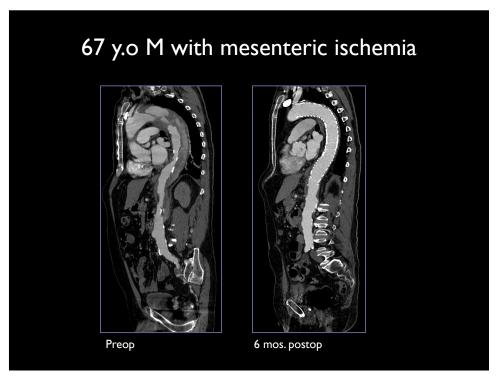
#### Type B dissection

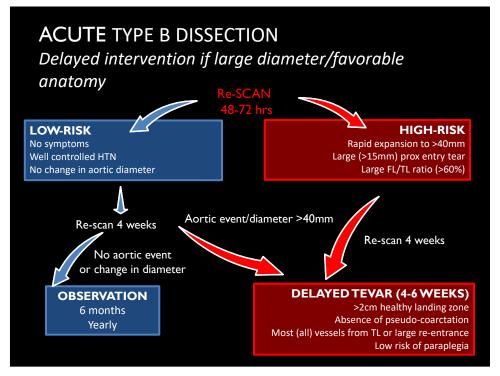
- Anti-impulse therapy
  - 30% 5 year mortality
  - < 50% survival long-term

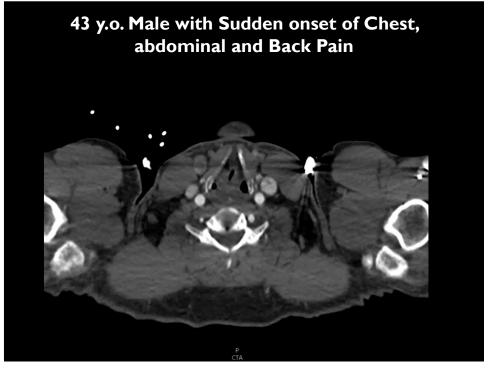
17

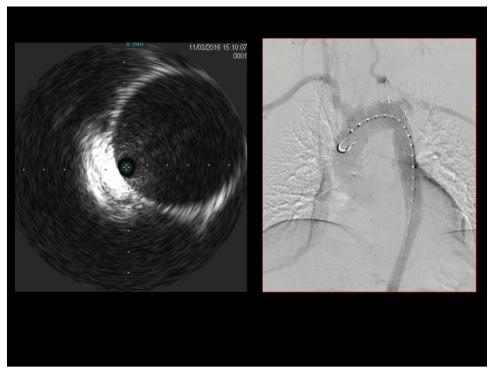
Is this <u>acceptable</u> or Even <u>Justifiable</u> in the Endovascular Era?

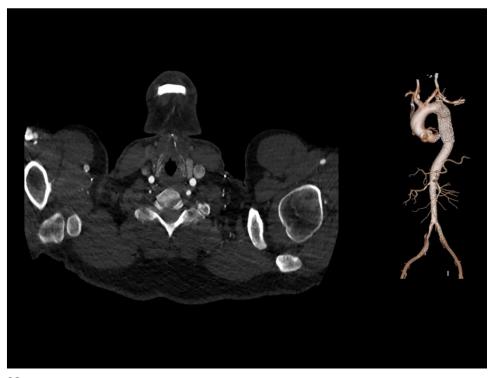
How do we use the advantages of endovascular therapy to increase survival of pts with aortic dissection?







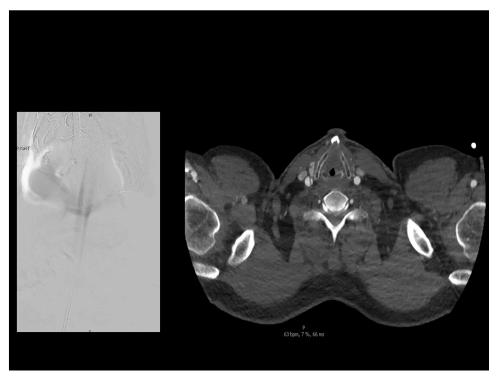


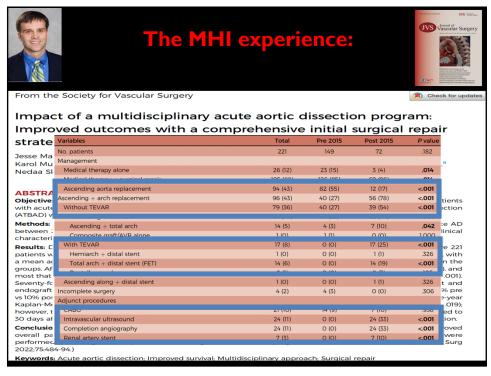


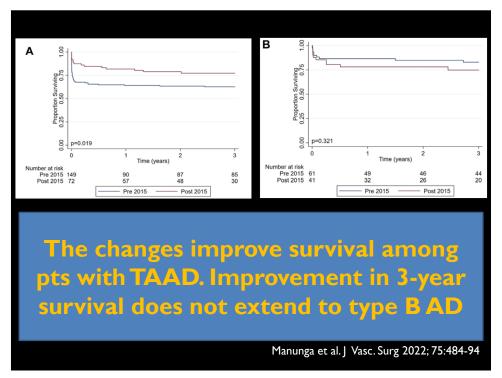
### The Abbott Northwestern/MHI Experience

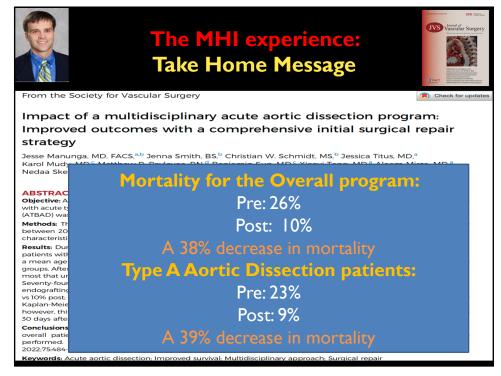


- We pushed for vascular surgery involvement in the management of all dissection patients, including Type A
  - Pts should have, at a minimum an aggressive hemi-arch but we prefer an frozen elephant trunk!
- Meeting with cardiac surgery
  - Why?
  - Difficult operation with very high complication rates!
    - Stroke
    - Paraplegia
- Believed changes would lead to improved outcomes









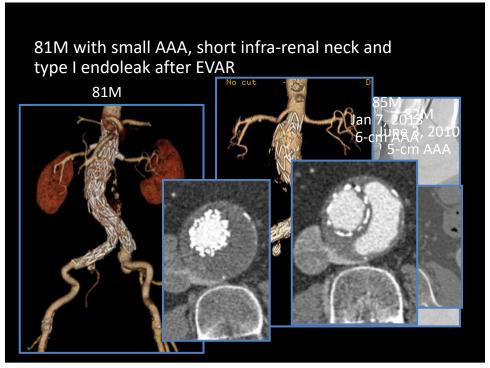


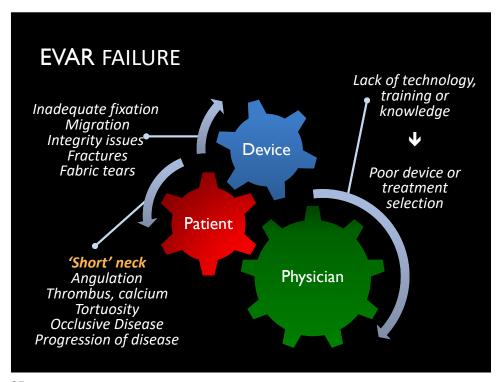


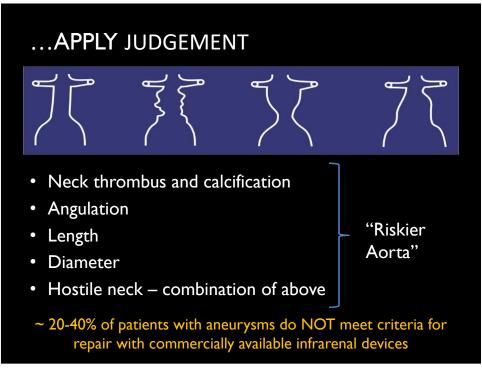


Risk of Rupture (AAA)	
Diameter (cm)	Annual risk of rupture (%)
< 4 cm	~ 0
4 – 5 cm	0.5 – 5 %
<u>5 – 6 cm</u>	<u>3 – 15 %</u>
6 – 7 cm	10 – 20 %
7 – 8 cm	20 – 40 %
> 8 cm	30 – 50 %









## WHAT IS HEALTHY AORTA?

- Is any aorta in a patient with an aneurysm healthy?
  - Probably not...
- Given this, the real question should be...
- WHAT IS HEALHY ENOUGH?



37

## **HEALTHY ENOUGH**

Offering a repair that will outlive the patient

Landing the device above renal or mesenteric arteries

