CAN PARALLEL GRAFT EVAR WORK IN A COMMUNITY HOSPITAL SETTING: ADVANTAGES AND LIMITATIONS

Jeffrey Y. Wang MD
Horizon Vascular Specialists
Shady Grove Adventist Hospital
Director of Vascular Research

Introduction
- Endovascular treatment of AAA and TAA has been quickly adopted in a short time.
- For infrarenal AAA repair EVAR has become the standard
- Thoracic Stent Grafts have expanded the population that we can safely treat for TAA

Applications of Parallel Grafts
- Utilize stents to effectively move the orifice of a vessel to a higher or lower location
- Then to use the newly repositioned orifice to allow placement of endografts in a higher or lower location

Disclosures
- Boston Scientific: Consultant
- Gore: Consultant
- CSI: Proctor
- Janssen: Speaker

Introduction
- Still there are some conditions that are challenging to treat with current endografts
- Juxtarenal or pararenal AAA
- Thoracoabdominal aneurysms
- Bilateral Iliac Artery Aneurysms involving both hypogastric arteries

Typical Scenarios
- Short Neck
- Thoracoabdominal
- Dual Bifurcations which don’t have 154mm from renal to hypogastric
- Type 1 endoleaks with limited or no working room under the renal arteries
Bilateral Iliac and Hypo

- 80 yo male with bilateral iliac aneurysms
- Also Large left hypogastric artery aneurysm
- Pt with transient buttock claudication with left hypogastric coiling
Type V Thoracoabdominal

- 89 yo male with Type 5 Thoracoabdominal Aneurysm
- Pt being worked up for repair
- Pt presents to ED with Back Pain and abdominal pain
- Pt taken emergently for repair
Type 1 endoleaks

- 80 yo male
- Prior EVAR 8yrs ago
- Complains of ABD pain
- Hemodynamically stable
## Results
- 27 patients last 3 years
- No aneurysm related deaths
- 3 patients died from non-aneurysm related causes
- 2 patients required re-intervention
  - Right renal stent was stenotic
  - Penetrating ulcer proximal to the thoracic stent graft
  - Loss of one left kidney
  - One permanent paralysis

## Benefits and Limitations
- Ensure proper room set up
- Make sure to have two techs to help
- Make sure to have the appropriate devices and sheaths
- Start with single vessel cases
- Do not hesitate to offer referral to the patient

## Conclusion
- Parallel grafts are a safe and effective way to provide an endovascular option for more challenging anatomy
- Parallel graft techniques are becoming increasingly more popular in the community setting as technical expertise becomes available