Role of Direct Segmental Artery Revascularization To Prevent SCI After Endovascular TAAA Repairs: When And How To Do It

VEITH 2024

Sukgu M Han, MD, MS, DFSVS Professor of Surgery and Neurological Surgery Chief, Division of Vascular Surgery and Endovascular Therapy Co-director of Keck Aortic Center Program Director, Vascular Surgery Residency/Fellowship University of Southern California

Keck Medicine of USC



DISCLOSURES

- W.L. Gore & Associates: Consultant, Research Support, Site PI for TAMBE, TBE, OSMB for GREAT registry, Scientific Advisory Board (No personal income, all paid to USC)
- Cook Medical: Consultant, Instructor/Proctor for Zenith Fenestrated, Site PI for ZFEN PLUS
- Medtronic: Consultant
- Physician-Modified Endografting is an off-label procedure

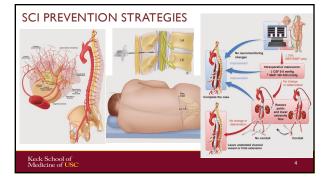
Keck School of Medicine of USC

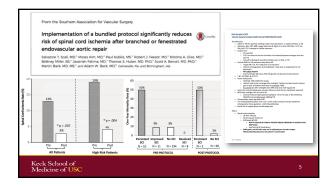


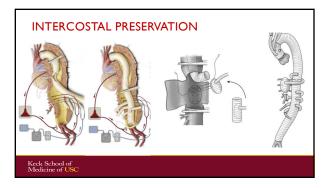
- Cleveland Clinic Experience
 1251 patients with endovascular treatment of aortic aneurysms
 1998~2010
- 2.8% risk of SCI
 - AAA: 0.3%
- JRAAA: 0.4%
- TA: 4.6%
- TAAA: 4.8%
- 53mm vs 33mm supraceliac coverage

Keck School of Medicine of USC







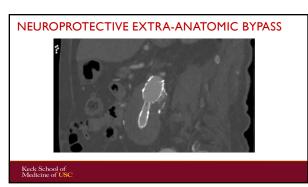


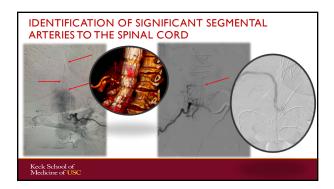


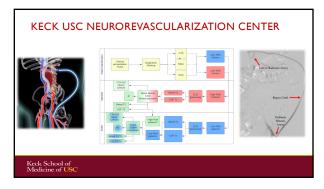
SEGMENTAL ARTERY FBEVAR

Ma		N= 9
Mer	Incorporation Configuration	
	Directional Branch	5 (56%)
	Stented fenestration	2 (22%)
TON OF	Unstented fenestration	2 (22%)
~ 1. 1	Mean Follow-Up (days)	624 +/- 489
23	SCI	0
a la	Branch Patency	89%
Keck School of Medicine of USC		









SUMMARY

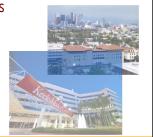
- Current SCI mitigation strategies consist of multi-modal augmentation of oxygen delivery via collateral network
- Preservation of segmental artery perfusion is feasible

 - Endovascular incorporation
 Extra-anatomic bypass
 Identification of significant contributor to the spinal cord perfusion
- Ideal patient selection, risk/benefit remain to be determined

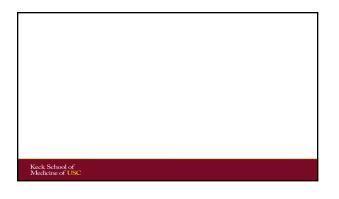
Keck School of Medicine of USC

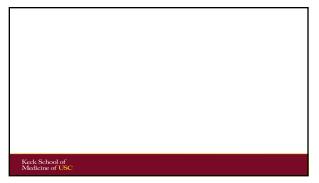
ACKNOWLEDGEMENTS

- Jonathan Russin, MD
- William Mack MD



Keck School of Medicine of USC





Keck School of Medicine of USC	