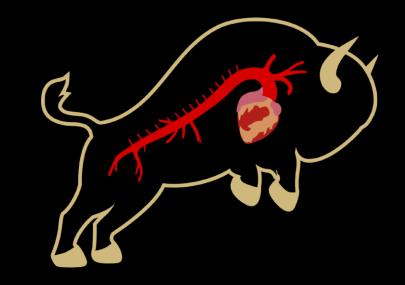
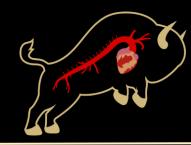
Hemiarch Reconstruction for Ascending Thoracic Aorta Pathology: Single-Institutional Experience



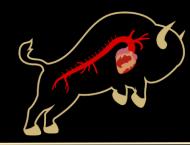
No disclosures





Introduction

- Neuroprotection and surgical techniques have improved in recent years
- This has reduced the morbidity of cardiopulmonary bypass and circulatory arrest
- Hemiarch reconstruction has increased because of these improvements



Background

Original Investigation

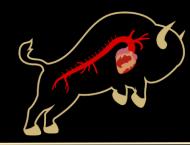
October 5, 2022

Association of Thoracic Aortic Aneurysm Size With Long-term Patient Outcomes The KP-TAA Study

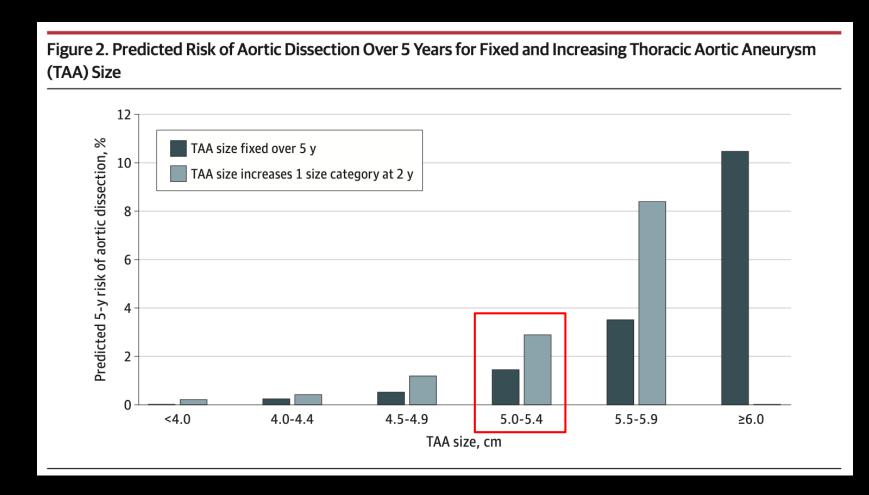
Matthew D. Solomon, MD, PhD^{1,2}; Thomas Leong, MPH¹; Sue Hee Sung, MPH¹; et al

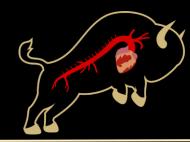
 \gg Author Affiliations ~~|~~ Article Information

JAMA Cardiol. 2022;7(11):1160-1169. doi:10.1001/jamacardio.2022.3305



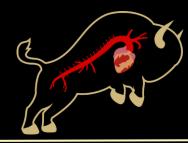
Background





Aim

- To describe our institutional experience with elective hemiarch aortic reconstruction
- Assess morbidity and mortality in the context of the Kaiser Permanente Thoracic Aortic Aneurysm Study



<u>Methods</u>

- Retrospective review of prospectively-maintained institutional aortic database from February 2011-October 2023
- Identified all patients who underwent elective aortic arch reconstruction with hemiarch aortic reconstruction

Results

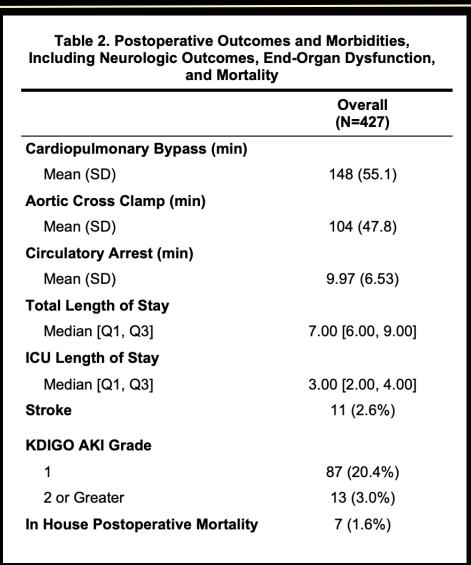
- 427 patients underwent hemiarch
- 327 (76.6%) were male
- 39 (9.1%) had a previous aortic surgery
- Aneurysm (n=396, 92.7%) was the most common presentation

Characteristics and Comorbidities	
	Overall (N=427)
Age (Years)	
Median [IQR]	62.0 [50.3, 69.6]
BMI	
Median [IQR]	27.5 [24.4, 31.9]
Gender Male	327 (76.6%)
Diabetes	50 (11.7%)
Coronary Artery Disease	80 (18.7%)
Stroke	21 (4.9%)
Pulmonary (including OSA)	96 (22.5%)
Renal Disease	34 (8.0%)
Smoking	103 (24.1%)
History of cardiac surgery	132 (30.9%)
History of aortic surgery	39 (9.1%)

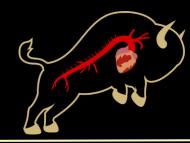
Table 1. Summary of Patient Demographic

<u>Results</u>

- 205 (48.0%) of patients had some postoperative complication
- 11 (2.6%) had a stroke
- 7 (1.6%) patients died during their postoperative hospitalization







<u>Conclusions</u>

- Hemiarch reconstruction is a safe procedure
- Patients experience acceptable postoperative morbidity and minimal mortality
- Surgical risk should be weighed against the annual risk of complications in determining the true size criteria for repair

Thank You!