



Background

- Aberrant subclavian artery (ASA) can occur with or without Kommerell's Diverticulum (KD)
- Can be associated with both right and left aortic arch
- Incidence is approximately
 0.2-.25% of the population





Background

- Outcomes of treatment are poorly reported
- · Small case series
- Significant variation
- Optimal approaches are largely unknown

Long-term results of hybrid repair techniques for	R Check for updates
Kommerell's diverticulum	
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Natural history and management of Kommerell's	2 Omit to updates
diverticulum in a single tertiary referral center	
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Results of aberrant right subclavian artery aneurysm repair Pairweid, MD, TD, TENY, 'Geore Lenia, MD, 'Good Steere, MD, 'Fail D Range, MD, TB, '



Results - demographics					
173 patients with complete data	Variables	N	%		
26 institutions worldwide	Age, mean (sd)	59	(15.4)		
	Female gender	77	44.5		
 Indications for surgery: 	White race	134	78		
 Symptoms 67%- dysphagia lusuria. 	Black race Other race	18 20	10 12		
- Size 39%	Symptomatic	115	67		
 Rupture 6% Rapid growth 4% Appearance 2% Other 19% 	-Pain -Dyspnea -Dysphagia	29 20 82	17 11 47		
	-Dysphonia -Neurologic	14 5	83		
E	-Other	13	7.5		

Base of Control Cont















Reintervention	
Type of reintervention (n=22)	%
Upper extremity bypass and TEVAR	9%
Angioplasty/stent/coil embolization to ASA	23%
Upper extremity bypass alone	23%
Open aortic surgery	18%
TEVAR alone	14%
TEVAR/chimney	5%
Incision and drainage	5%
Unknown	5%



Results – multivariable analysis				
Risk factor	Outcome	OR	95% CI	
Urgent operation	Overall mortality	5.1	1.1-23.1	
Urgent operation	Intraoperative complication	9.6	2.55-36.9	
Urgent operation	Length of stay ≥ 10 days	10.7	3.61-31.64	
Diabetes	30-day readmission	6.5	1.3-32.4	
Female gender	Reintervention	5.3	1.31-22.1	
Urgent operation	Respiratory failure	15.6	3.4-71.6	





Conclusions Aberrant Subclavian Artery

· Rare disease but thoracic and vascular surgeons need to understand it

- Some patients have just ASA and some have ASA plus Kommerell's
- Hybrid approach has become standard
- · Urgent procedures are associated with a higher mortality
- Revascularization of the distal subclavian artery is commonly needed
- · Reinterventions are most often for endoleak
- · Long-term results, resolution of symptoms, and survival are excellent



Results – Univariable analysis

• Female:

		%	%	
Younger	Age (yr)	57	62	.03
More symptomatic	Symptoms	75	59	.02
	Hypertension	58	84	.0001
Fewer comorbidities	MI	4	23	.0003
	CKD	4	17	.006
Shorter length of stay	Length of stay (d)	8.5	12.1	.03
	M			