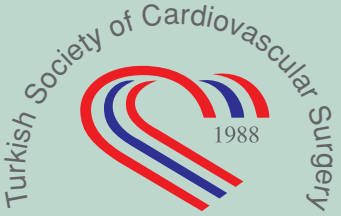
THORACOABDOMINAL AORT ANEURYSM



Erasmus+

1) PREOPERATIVE DATA

Demographic			
	Name-ID		
	Sex		
	Age		
	BMI		
BMI: Body mass index.			

Comorbidities			
	ASA classification		
	Hypertension		
	COPD		
	Heart failure (NYHA)		
	Renal disease		
	Anemia		
	Smoking		
	CAD		
	Prior ligation or occlusion of collateral sources (exp. subclavian, iliac)		
	Elective, urgent, emergent		
	Previous aortic intervention/surgery		
	Dissection		
	Rupture		
ASA: American Society of Anesthesiologists; COPD: Chronic obstructive pulmonary disease; NYHA: New York Heart Association; CAD: Coronary heart disease; CEAP: Clinical (C), Etiological (E), Anatomical (A), and Pathophysiological (P).			

Classification						
	TAAA		**AAA**		**Zone**	
	Extent I: from above T6 to the level of the renal arteries (Zone 3-8)		Infrarenal: minimum sealing zone below the renal arteries >4 mm (Zone 9-10)		Zone 3	
	Extent II: from above T6 to below the level of the renal arteries (Zone 3-10)		Juxtarenal: Aneurysm abuts but does not involve the renal arteries with sealing zone <4 mm (Zone 8-10)		Zone 4	
	Extent III: from below T6 to below the level of the renal arteries (Zone 5-10)		Pararenal: aneurysm involves at least one renal artery and abuts but does not involve the SMA (Zone 7-10)		Zone 5	
	Extent IV: Abdominal aneurysm extending up to the celiac axis (Zone 6-10)		Paravisceral: Aneurysm involves the SMA and abuts but does not involve the celiac axis (Zone 6-10)		Zone 6	
	Extent V: From below T6 to the level of the renal arteries (Zone 5-8)				Zone 7	
					Zone 8	
					Zone 9	
					Zone 10	
TAAA: Thoracoabdominal aortic aneurysm; AAA: Abdominal aortic aneurysm; SMA: Superior mesenteric artery.						

2) PERIOPERATIVE DATA

Intervention			
	Endovascular		
	Open repair		
	Hybrid		

Aortic proximal extension			
	Zone 2		
	Zone 3		
	Zone 4		
	Zone 5		
	Zone 6		
	Zone 7		
	Zone 8		
	Zone 9		

Endovascular						
	Endograft fabric		**Bridging stent material**		**Branch vessel incorporation**	
	Expanded PTFE		Balloon expandable		Scallop	
	Woven polyester		Self-expandable stent graft		Fenestration	
PTFE: Polytetrafluoroethylene.						

Open repair					
	Therapy phase		**Perfusion type**		**Level of aortic cross clamp**
	Single repair		Left heart bypass		
	Staged repair		Deep hypothermia		

Operative metrics			
	Total operating time, minutes skin incision to closure		
	Total endovascular time, minutes arterial access (needle in) to removal of arterial access (sheath out)		
	Total fluoroscopy time, minutes time spent on pedal using fluoroscopy		
	Total contrast material volume, mL volume of contrast material		
	Duration of aortic cross-clamping		
	Hypothermia degree		

Spinal cord perfusion			
	Extent of segmental artery sacrifice		
	Reimplantation of segmental arteries		
	Loss of collateral flow from subclavian/ iliac arteries		
	Neuromonitoring (MEPs)		
	Cerebrospinal fluid drainage		

3) POSTOPERATIVE DATA

A- Primary outcomes

	Mortality primary aortic disease		
	All cause mortality (in hospital)		
	Rupture		
	Reintervention		

Aneurysm sac changes			
	Enlargement (>5-mm enlargement in sac diameter/1 month)		
	Shrinkage (>5-mm decrease in sac diameter/1 month)		
	Stable (<5-mm changes in sac diameter)		

Endoleak classification/ 1 month			
	IA		
	IB		
	IC		
	II		
	IIIA		
	IIIB		
	IIIC		
	IV		
	Complex		
Migration			

B- Secondary outcomes

Vessel patency			
	Celiac		
	SMA		
	Lef renal		
	Right renal		

Secondary reintervention			
	Aortic enlargement		
	Branch vessel occlusion/ stenosis		
	Complation therapy		

Complication			
	Stroke		
	Paraplegia		
	Myocardial infarction		
	Renal infarct		
	Renal failure		
	Mesenteric ischemia		
	Pulmonary failure		
	Prolonged intubation		