

MINIMALLY INVASIVE AORTIC VALVE SURGERY



Erasmus+

1) PREOPERATIVE DATA

Demographic			
	Name-ID		
	Age		
	Sex		
	Height		
	Weight		
	BMI		

BMI: Body mass index.

Cardiovascular risk factors						
	NYHA Class	I	II	III	IV	
	Pathology of valve	Degenerative			<input type="checkbox"/>	
		Rheumatic			<input type="checkbox"/>	
		Infective endocarditis			<input type="checkbox"/>	
		Other			<input type="checkbox"/>	
	Dyslipidemia	Yes <input type="checkbox"/>		No <input type="checkbox"/>		
	Hypertension	Yes <input type="checkbox"/>		No <input type="checkbox"/>		
	Diabetes mellitus	Yes <input type="checkbox"/>		No <input type="checkbox"/>		
	Peripheral artery disease	Yes <input type="checkbox"/>		No <input type="checkbox"/>		
	Smoking	Yes <input type="checkbox"/>		No <input type="checkbox"/>		
	Alcohol	Yes <input type="checkbox"/>		No <input type="checkbox"/>		
	Cerebrovascular disease	Yes <input type="checkbox"/>		No <input type="checkbox"/>		
	Transient ischemic attack	Yes <input type="checkbox"/>		No <input type="checkbox"/>		
	Atrial fibrillation	Yes <input type="checkbox"/>		No <input type="checkbox"/>		
	Severe renal failure (CrCl<50)	Yes <input type="checkbox"/>		No <input type="checkbox"/>		
	EuroSCORE II (%)	Yes <input type="checkbox"/>		No <input type="checkbox"/>		
	STS score	Yes <input type="checkbox"/>		No <input type="checkbox"/>		

NYHA: New York Heart Association; CrCl: Creatinine clearance; STS: Society of Thoracic Surgeons.

Echocardiography				
	Ejection fraction	>45%	<input type="checkbox"/>	
		35-45%	<input type="checkbox"/>	
		<35%	<input type="checkbox"/>	
	LVEDD			
	Peak aortic trans valvular gradient			
	Aortic valve area			
	Aortic annulus diameter			
	Ascending aorta diameter			
	Pathology of aortic valve	Stenosis	<input type="checkbox"/>	
		Insufficiency	<input type="checkbox"/>	
		Stenosis + insufficiency	<input type="checkbox"/>	
		Bicuspid	<input type="checkbox"/>	
LVEDD: Left ventricular end-diastolic diameter.				

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2) PERIOPERATIVE DATA

	Technic of surgery	Right mini thorocotomi	<input type="checkbox"/>	
		Mini sternotomy	<input type="checkbox"/>	
		Right axillary	<input type="checkbox"/>	
		Conventional	<input type="checkbox"/>	
		Non isolated aortoplasty	<input type="checkbox"/>	
		Aortoplasty and aortic root surgery	<input type="checkbox"/>	
	Cardiopulmonary bypass time min		
	Type of aortic valve prosthesis	Mechanic	<input type="checkbox"/>	
		Biologic	<input type="checkbox"/>	
		Sutureless	<input type="checkbox"/>	
		Ozaki procedure	<input type="checkbox"/>	
	Aortic valve prosthesis diameter			
	Surgery procedure	AVR	<input type="checkbox"/>	
		AVR+MVR	<input type="checkbox"/>	
		AVR+MVP	<input type="checkbox"/>	
		AVR+MVR+TVP	<input type="checkbox"/>	
		AVR+MVP+TVP	<input type="checkbox"/>	
		Other	<input type="checkbox"/>	

AVR: Aortic valve replacement; MVR: Mitral valve replacement; MVP: Mitral valve repair; TVP: Tricuspid valvuloplasty.

3) POSTOPERATIVE DATA

	Low cardiac output	Yes <input type="checkbox"/>	No <input type="checkbox"/>		
	Incipient atrial fibrillation	Yes <input type="checkbox"/>	No <input type="checkbox"/>		
	Prolonged duration of mechanical ventilation	Yes <input type="checkbox"/>	No <input type="checkbox"/>		
	Re-intubation	Yes <input type="checkbox"/>	No <input type="checkbox"/>		
	Postoperative need permanent pace maker	Yes <input type="checkbox"/>	No <input type="checkbox"/>		
	Acute renal failure	Yes <input type="checkbox"/>	No <input type="checkbox"/>		
	Stroke	Yes <input type="checkbox"/>	No <input type="checkbox"/>		
	Revision because of bleeding	Yes <input type="checkbox"/>	No <input type="checkbox"/>		
	Wound infection	Yes <input type="checkbox"/>	No <input type="checkbox"/>		
	Total drainage amount	Yes <input type="checkbox"/>	No <input type="checkbox"/>		
	Blood transfusion	Yes <input type="checkbox"/>	No <input type="checkbox"/>	FFP	<input type="checkbox"/>
				ES	<input type="checkbox"/>
				WB	<input type="checkbox"/>
	Length of stay in intensive care hours			
	Postoperative hospital stay				
	Paravalvular leak days			
	Postoperative aortic valve insufficiency	Low	<input type="checkbox"/>		
		Medium	<input type="checkbox"/>		
		Severe	<input type="checkbox"/>		

FFP: Fresh frozen plasma; ES: Erythrocyte suspension; WB: White blood.

Postoperative Echocardiography			
	Ejection fraction		
	LVEDD	>45%	<input type="checkbox"/>
		35-45%	<input type="checkbox"/>
		<35%	<input type="checkbox"/>
	Peak aortic trans valvular gradient		
	Mean aortic trans valvular gradient		

LVEDD: Left ventricular end-diastolic diameter.