

MINIMALLY INVASIVE CORONARY ARTERY BYPASS SURGERY



Erasmus+

1) PREOPERATIVE DATA

Demographic	
	Name and surname
	Age
	Sex
	BMI (kg/m ²)
	Date of operation
	Name of the cardiac center
	Surgeon
BMI: Body mass index.	

Comorbidities		I	II	III	IV
	NYHA stage				
	EuroSCORE II	Yes ☐		No ☐	
	Hyperlipidemia-dyslipidemia	Yes ☐		No ☐	
	Hypertension	Yes ☐		No ☐	
	Diabetes mellitus	Yes ☐		No ☐	
	eGFR (mL/min/1.73 m ²)	Yes ☐		No ☐	
	Chronic obstructive pulmonary disease	Yes ☐		No ☐	
	Cerebrovascular accident	Yes ☐		No ☐	
	Peripheral artery disease	Yes ☐		No ☐	
	ST-elevation myocardial infarction	Yes ☐		No ☐	
	Previous myocardial infarction	Yes ☐		No ☐	
	Left main coronary artery disease	Yes ☐		No ☐	
	Single-vessel disease	Yes ☐		No ☐	
	Two-vessel disease	Yes ☐		No ☐	
	Three-vessel disease	Yes ☐		No ☐	
	Preoperative PCI	Yes ☐		No ☐	
	Preoperative IABP needed	Yes ☐		No ☐	
	Brain natriuretic peptide (ng/L)				
	CK-MB (ng/mL)				
	Troponin I (µg/L)				
	Left ventricular ejection fraction				
	Left ventricular end-diastolic diameter				
	Left ventricular end-systolic diameter				

NYHA: New York Heart Association; eGFR: Estimated glomerular filtration rate; PCI: Percutaneous coronary intervention; IABP: Intra-aortic balloon pump; CK-MB: Creatine kinase muscle brain.

2) PERIOPERATIVE DATA

	Cardiopulmonary bypass	Yes ☐	No ☐
	Aortic clamp	Yes ☐	No ☐
	Off-pump approach	Yes ☐	No ☐
	Axillary artery cannulation	Yes ☐	No ☐
	Femoral artery cannulation	Yes ☐	No ☐
	Cannulation-related vascular complications	Yes ☐	No ☐
	Operating room duration	 min	
	Total number of grafts		
	Total number of distal anastomosis		
	Sequential technique	Yes ☐	No ☐
	Y-composite graft	Yes ☐	No ☐
	Complete revascularization	Yes ☐	No ☐
	Return to sternotomy	Yes ☐	No ☐
	Distal anastomosis	LAD	☐
		Diagonal	☐
		Ramus intermedius	☐
		Obtuse marginalis	☐
		Posterior descending artery	☐
		Posterior lateral branch	☐
	Graft choice	LIMA	☐
		RIMA	☐
		Bilateral IMA	☐
		Radial artery	☐
		Saphenous vein	☐
	Cardiopulmonary bypass time	 min	
	Aortic clamp time	 min	
	Perioperative blood loss	 mL	
	Perioperative blood transfusion	 unit	
	Intraoperative hemofiltration	Yes ☐	No ☐

LAD: Left atrial diameter; LIMA: Left internal mammary artery; RIMA: Right internal mammary artery; IMA: Internal mammary artery.

3) POSTOPERATIVE DATA

	Duration of mechanical ventilation	 hours	
	Re-intubation	Yes ☐	No ☐
	Amount of bleeding in the first 24 hours postoperatively	 mL	
	Postoperative blood transfusion	 mL	
	Postoperative blood transfusion	 units	
	Postoperative stroke	Yes ☐	No ☐
	Postoperative dialysis requirement	Yes ☐	No ☐
	Postoperative new atrial fibrillation	Yes ☐	No ☐
	Postoperative myocardial infarction	Yes ☐	No ☐
	Reoperation due to bleeding	Yes ☐	No ☐
	Port entry site infection	Yes ☐	No ☐
	Cannulation-related vascular complications	Yes ☐	No ☐
	Duration of stay in the ICU	 hours	
	Length of hospital stay	 days	
	30-day mortality	Yes ☐	No ☐
	Postoperative coronary CT angiography	Yes ☐	No ☐
	Patency of grafts on postoperative coronary CT angiography	LAD	☐
		Diagonal	☐
		Ramus intermedius	☐
		Obtuse marginalis	☐
		Posterior descending artery	☐
		Posterior lateral branch	☐

ICU: Intensive care unit; CT: Computed tomography.