

CORONARY REVASCULARIZATION AND PERIPROCEDURAL MI



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1) PREOPERATIVE DATA

Demographic		
	Patient ID	
	Patient number	
	Ethnicity	
	Job	Unemployed Blue collar White collar
	Educational background	No Elementary school High school University
	Age	
	Sex	
	Weight and height	
	BMI	
	BSA	
	Operation date	
BMI: Body mass index; BSA: Body surface area.		

Comorbidities		
	Diabetes mellitus	Yes/No
	Hypertension	Yes/No
		No medication
		Monotherapy
		Multiple Medication
	Peripheral vascular disease	Yes/No
		Iliac lesion
		Femoral lesion
		Popliteal lesion
		Trifurcation and after
	Chronic obstructive pulmonary disease	Yes/No
	Smoking history	Yes/No
	Alcohol	Yes/No
	Cerebrovascular disease	Yes/No
		With neurological deficit
		With out neurological deficit
	Carotid artery disease	Yes/No
		Left ICA: %.....
		Right ICA: %.....
	Hyperlipidemia	Yes/No
ICA: Internal carotid artery.		

Laboratory Data		
	Hemoglobin	ALT
	Hematocrit	AST
	Platelet	Total bilirubin
	WBC	Direct bilirubin
	CRP	Total cholesterol
	Albumin	LDL
	Potassium	HDL
	Sodium	Triglyceride
	Creatinine	HbA1c
	Glomerular filtration rate	BNP
	Troponine	BUN
WBC: White blood cell; CRP: C-reactive protein; ALT: Alanine transaminase; AST: Aspartate transaminase; LDL: Low-density lipoprotein; HDL: High density lipoprotein; HbA1c: Hemoglobin A1C; BNP: Brain natriuretic peptide; BUN: Elevated blood urea nitrogen.		

EuroSCORE	
https://qxmd.com/calculate/calculator_285/euroscore-ii	
SYNTAX score	
EuroSCORE: European System for Cardiac Operative Risk Evaluation	

Echocardiography Data		
	Ejection fraction	
	Left ventricular diameter	ES ED
	Interventricular septum diameter	
	Valve disease	Moderate Severe
	Pulmonary artery pressure	
ES: Endsystolic; ED: End diastolic.		

Pulmonary Function Test Data		
	FEV1	
	FVC	
	FEV1/FVC	
	Breathing pattern	
FEV1: Forced expiratory volume; FVC: Forced vital capacity.		

2) PERIOPERATIVE DATA

Operation Data	
	Cross clamp time (minute)
	Cardiopulmonary bypass time (minute)
	Type of cardioplegia Repeat interval Total amount
	Number of bypass grafts

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3) POSTOPERATIVE DATA

Laboratory Data		
	Hemoglobin	ALT
	Hematocrit	AST
	Platelet	Total bilirubin
	WBC	Direct bilirubin
	CRP	Total cholesterol
	Albumin	LDL
	Potassium	HDL
	Sodium	Triglyceride
	Creatinine	HbA1c
	Glomerular filtration rate	CK-MB
	CK	Troponine
ALT: Alanine transaminase; AST: Aspartate transaminase; WBC: White blood cell; CRP: C-reactive protein; LDL: Low-density lipoprotein; HDL: High density lipoprotein; CK-MB: Creatin kinaz muscle brain.		

Intensive Care Stay Duration (hour)			
	Intraaortic balloon pump	Yes	No
	ECMO	Yes	No
	VIS 1*		
	VIS 2**		
	Atrial fibrillation	Yes	No
	Acute renal failure	Yes	No
	Dialysis	Yes	No
	Cerebrovascular event	Yes	No
	Gastrointestinal bleeding	Yes	No
	Mesenteric ischemia	Yes	No
	Hepatocellular insufficiency	Yes	No
	Infection	Yes	No
	Length of stay (day)		
	Mortality	Yes	No
ECMO: Extracorporeal Membrane Oxygenation; VIS: Vasoactive inotrope score; * Inotrope score when first admitted to intensive care; ** Maximum inotrope score during intensive care. VIS: Dopamine (µg/kg/min) + dobutamine (µg/kg/min) + 100 × epinephrine (µg/kg/min) + (10 × milrinone (µg/kg/min) + 10 × vasopressin (mU/kg/min) + 100 × norepinephrine (µg/ kg/min).			

4) DIAGNOSIS OF PPMI

According to SYNTAX criteria
According to ISCHEMIA criteria
According to SCAI criteria
According to EXCEL criteria
According to UDMI criteria
According to ARC-2 criteria
* Please check whichever of the above criteria the patient is diagnosed with periprocedural myocardial infarction (PPMI). Definitions are shown in Table 1 below.

Table 1. Definitions of Criteria

	Recommended criteria when preoperative cardiac enzyme is normal	Recommended criteria for preoperative cardiac enzyme elevation
SYNTAX	a. Peak CK-MB / Peak CK > %10 + ECG change* b. CK-MB > x5 URL + ECG change*	No additional criteria, same criteria apply
ISCHEMIA	a. CK-MB > x10 URL + ECG change / ECHO finding** b. CK-MB > x15 URL	No additional criteria, same criteria apply
SCAI	a. CK-MB > x10 URL b. CK-MB > x5 URL + ECG change* c. Troponin > x70 URL d. Troponin > x35 URL + ECG change*	a. Troponin > x70 or CK-MB > x10 + ECG change
EXCEL	a. CK-MB > x10 URL b. CK-MB > x5 URL + ECG change* / ECHO finding**	No additional criteria, same criteria apply
UDMI	a. Troponin > x10 URL + ECG change* / ECHO finding**	a. Preoperative troponin 20% increase + >x10 URL + ECG change* / ECHO finding**
ARC-2	a. Troponin > x70 URL b. Troponin > x35 URL + ECG change* / ECHO finding**	No additional criteria, same criteria apply

CK-MB: Creatin kinaz muscle brain; ECG: Electrocardiogram; URL: Upper reference limit; ECHO: Echocardiogram; ARC-2: Academic Research Consortium-2; * Newly developed pathological Q wave, newly developed left bundle branch block; ** Newly developed segmental wall motion defect

5) LABORATORY DATA FOR CRITERIA

Preop troponin	Postop 1 st hour troponin	Postop 12-24 st hour troponin	Postop 48 st hour troponin
Preop CK-MB	Postop 1 st hour CK-MB	Postop 12-24 st hour CK-MB	Postop 48 st hour CK-MB
Preop CK (Creatin kinaz)	Postop 1 st hour CK (Creatin kinaz)	Postop 12-24 st hour CK (Creatin kinaz)	Postop 48 st hour CK (Creatin kinaz)
CK-MB: Creatin kinaz muscle brain.			

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6) OTHER DATA REGARDING THE CRITERIA

Preoperative ECG			Postoperative ECG		
Rhythm:	Q wave:	STE:	Rhythm:	Q wave:	STE:
Preoperative Echocardiography			Postoperative Echocardiography		
EF:	Segmental wall motion defect:		EF:	Segmental wall motion defect:	
ECG: Electrocardiogram; STE: ST-elevation; EF: Ejection fraction.					

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