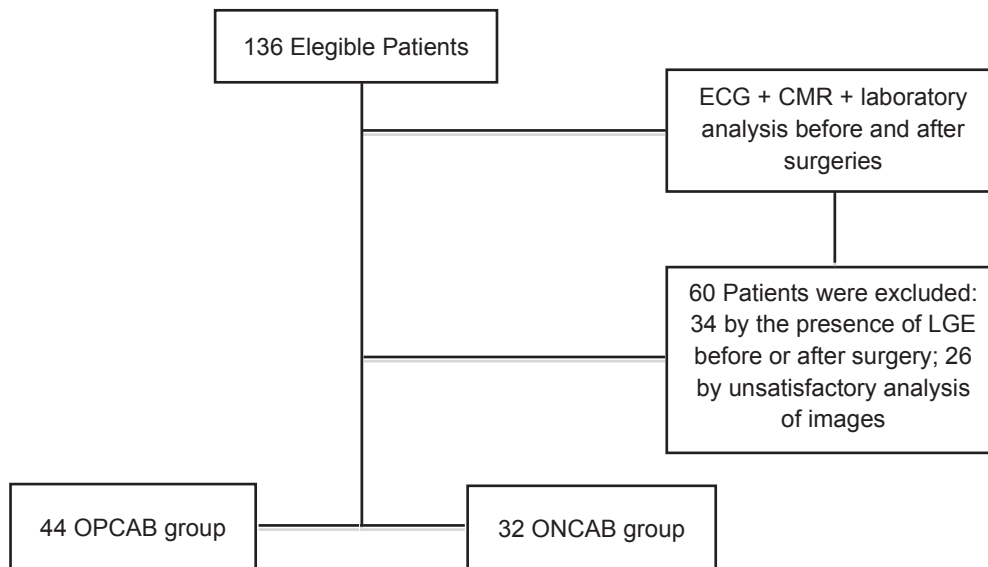


**Figure S1** T1 mapping using the MOLLI technique post-intervention in a patient who had undergone ONCAB. The analysis was performed on the short ventricular axis; from left to right: manual traces of the epicardial (green line) and endocardial (red line) layers and blood pool (orange line) delimiting the region of interest and construction of the native T1 map (left panel) and ECV map (right panel), respectively, with segmentation proposed by the American Heart Association. MOLLI: Modified Look-Locker recovery inversion; ONCAB: On-pump coronary artery bypass; ECV: Extracellular volume fraction; CAT1: Post-contrast T1; Myo: Myocardium; BP: Blood pool.

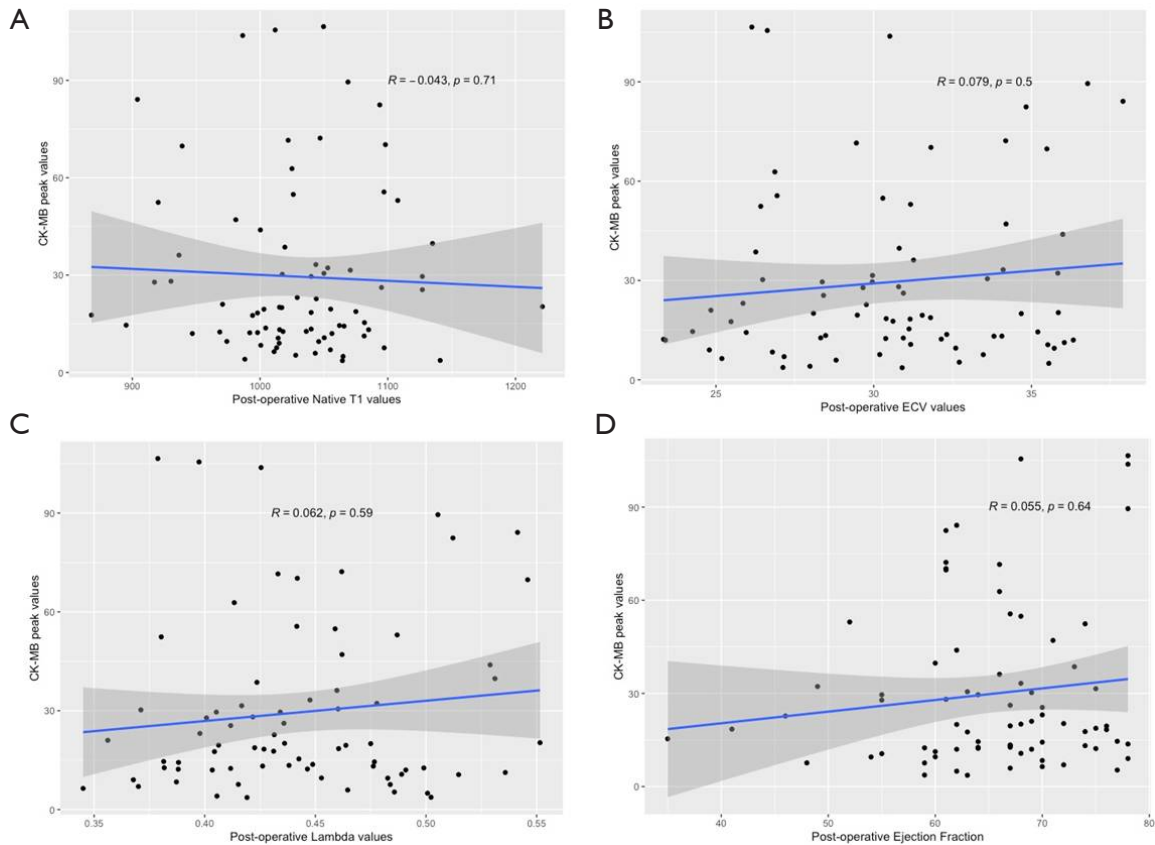


**Figure S2** Patient enrollment and two study arms. ECG, electrocardiogram; CMR, cardiac magnetic resonance; LGE, late gadolinium enhancement; OPCAB, off-pump coronary artery bypass; ONCAB, on-pump coronary artery bypass.

**Table S1** Biomarkers peak values after OPCAB and ONCAB

Peak values	OPCAB (n=44)	ONCAB (n=32)	P value
Troponin I, median (IQR), ng/mL	2.19 (0.69–3.4)	3.55 (2.12–4.9)	0.009
CK-MB, median (IQR), ng/mL	14.3 (9.3–29.2)	28.7 (18.2–55.4)	0.009

OPCAB, off-pump coronary artery bypass; ONCAB, on-pump coronary artery bypass; IQR, interquartile range; CK-MB: creatine kinase myocardial band mass.



**Figure S3** Scatterplots of all study patients with the correlations between peak CK-MB values and native T1 (3A), ECV (3B), partition coefficient  $\lambda$  (3C), and ejection fraction (3D). CK-MB, creatine kinase myocardial band mass; ECV, extracellular volume fraction;  $\lambda$ , partition coefficient.