

## **SUPPLEMENTAL MATERIAL**

**Table S1. Univariate Cox regression analysis**

<b>Variables</b>	<b>p value</b>	<b>HR</b>	<b>95%CI</b>
Age, years	0.007	1.038	1.010-1.066
Males	0.202	0.653	0.340-1.256
Current Smoking	0.128	0.638	0.358-1.138
Dyslipidemia	0.229	0.706	0.401-1.244
Hypertension	0.510	1.225	0.669-2.244
Diabetes mellitus	0.052	2.054	0.995-4.241
CKD	0.343	1.982	0.481-8.162
STEMI	0.175	0.618	0.308-1.239
Total ischemic time, min	0.049	1.001	1.000-1.002
Laboratory data			
TG, mg/dL	0.932	1.000	0.997-1.003
TC, mg/dL	0.936	1.000	0.993-1.007
LDL-C, mg/dL	0.896	0.999	0.991-1.008
HDL-C, mg/dL	0.982	1.000	0.979-1.020
Hs-CRP	0.184	0.960	0.904-1.020
HbA1C	0.309	0.831	0.581-1.187
CK-MB, $\mu$ g/L	0.689	1.000	0.998-1.001
cTnI, $\mu$ g/L	0.913	1.000	0.998-1.002
NT-pro BNP, pg/mL	0.908	1.000	1.000-1.000
Medications			
Aspirin	-	-	-
Clopidogrel	0.669	0.873	0.470-1.625
Ticagrelor	0.669	1.145	0.615-2.130
Statins	-	-	-
ACEI/ARB	0.726	1.108	0.626-1.961
$\beta$ -block	0.386	1.333	0.696-2.553

Lesion location			
LAD	0.772	0.914	0.499-1.675
LCX	0.912	1.060	0.381-2.948
RCA	0.803	1.089	0.557-2.129
RVD, mm	0.516	0.859	0.543-1.359
MLD, mm	0.188	0.616	0.299-1.268
DS, %	0.344	1.014	0.986-1.042
Lesion length, mm	0.326	0.975	0.926-1.026
Manual thrombectomy	0.208	1.561	0.780-3.124
GPI	0.388	0.782	0.448-1.367
Initial TIMI flow grade 0-1	0.815	0.927	0.491-1.749
Underlying Plaque			
Fibrous plaque	0.011	0.216	0.067-0.700
Lipid plaque	0.011	4.634	1.430-15.024
FCT	0.573	0.998	0.992-1.005
Mean lipid arc, °	0.374	1.003	0.997-1.009
Lipid length, mm	0.359	0.978	0.932-1.026
Lipid index	0.551	1.000	1.000-1.001
Max lipid arc, °	0.575	1.001	0.997-1.006
TCFA	0.040	1.891	1.029-3.473
Macrophage	0.209	1.685	0.747-3.801
Microchannel	0.708	0.897	0.509-1.581
Cholesterol crystals	0.222	0.624	0.293-1.330
Calcification	0.974	0.990	0.526-1.862
Layered plaque	0.317	1.378	0.735-2.581
Thrombus type			
Red	0.552	0.784	0.352-1.747
White	0.997	1.001	0.570-1.760
Mixed	0.607	1.176	0.634-2.181

Thrombus length, mm	0.715	0.990	0.935-1.047
Thrombus area, mm <sup>2</sup>	0.561	1.093	0.810-1.474
Thrombus volume, mm <sup>3</sup>	0.848	1.002	0.985-1.018
Thrombus burden	0.008	1.031	1.008-1.055
Thrombus score	0.717	0.999	0.995-1.004
MLA	0.042	0.771	0.600-0.991
AS%	0.003	1.041	1.014-1.070

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ACEI, angiotensin-converting enzyme inhibitor; ARB, angiotensin II receptor blocker; AS%, percentage of area stenosis; CKD, chronic kidney disease; CK-MB, creatine kinase myocardial band; CTnI, troponin I; DS, diameter stenosis; FCT, fibrous cap thickness; GPI, glycoprotein IIb/IIIa inhibitor; HbA1c, glycated hemoglobin; HDL-C, high-density lipoprotein cholesterol; Hs-CRP, high-sensitive C-reactive protein; LAD, left anterior descending artery; LCX, left circumflex artery; LDL-C, low-density lipoprotein cholesterol; LVEF, left ventricular ejection fraction; MACE, major adverse cardiovascular event; MLA, minimal lumen area; MLD, minimal lumen diameter; NSTEMI-ACS, non-ST-segment elevation acute coronary syndrome; NT-pro BNP, N-terminal pro-B type natriuretic peptide; RCA, right coronary artery; RVD, reference vessel diameter; STEMI, ST-segment elevation myocardial infarction; TC, total cholesterol. TCFA, thin-cap fibroatheroma; TG, triglyceride. TIMI, thrombolysis in myocardial infarction.