

Table S1 The comparison of clinical baseline information of elderly STEMI patients between the training group and a validation group

Index	Training group (n=386)	Validation group (n=165)	P value
Basic demographic characteristics			
Age (mean ± SD)	72.87±5.31	72.93±5.03	0.721
Female (n, %)	147 (38.08%)	61 (36.97%)	0.848
History of hypertension (n, %)	218 (56.48%)	94 (56.97%)	0.926
History of diabetes (n, %)	84 (21.76%)	31 (18.90%)	0.493
Family history of CHD (n, %)	29 (7.53%)	16 (9.70%)	0.399
History of CVD (n, %)	54 (13.99%)	31 (18.79%)	0.158
History of angina pectoris (n, %)	198 (51.30%)	89 (53.94%)	0.578
Systolic pressure (mm Hg, mean ± SD)	128.61±24.24	127.70±24.16	0.377
Systolic pressure ≤100 mm Hg (n, %)	52 (13.51%)	22 (13.33%)	1.000
Diastolic pressure (mm Hg, mean ± SD)	74.04±13.63	75.32±13.07	0.376
Pulse pressure (mm Hg, mean ± SD)	54.57±17.61	52.38±18.56	0.053
Pulse pressure < 50 mm Hg (n, %)	140 (36.36%)	72 (43.64%)	0.126
Mean arterial pressure (mm Hg, mean ± SD)	92.23±15.83	92.78±15.23	0.840
Clinical characteristics			
Killip grade (n, %)			0.788
I	328 (84.97%)	145 (87.88%)	
II	45 (11.66%)	15 (9.09%)	
III	4 (1.04%)	1 (0.61%)	
IV	9 (2.33%)	4 (2.42%)	
Killip grade ≥ II (n, %)	58 (15.03%)	20 (12.12%)	0.424
The door to balloon (D-to-B) time (h, mean ± SD)	6.37±2.62	6.24±2.85	0.360
Time from onset to balloon dilation (n, %)			0.678
0–6 h	206 (53.65%)	95 (57.58%)	
7–12 h	153 (39.84%)	61 (36.97%)	
>12 h	25 (6.51%)	9 (5.45%)	
Medication			
β-blockers (n, %)	224 (63.46%)	96 (62.34%)	0.842
ACEI/ARB (n, %)	187 (55.33%)	79 (52.32%)	0.556
Statins (n, %)	343 (91.71%)	150 (92.59%)	0.863
Tirofiban (n, %)	51 (13.21%)	14 (8.48%)	0.149
Coronary angiography characteristics			
No-reflow phenomenon (n, %)			1
No-reflow	141 (36.53%)	60 (36.36%)	
Normal blood flow	245 (63.47%)	105 (63.63%)	
Preoperative TIMI blood flow (n, %)			0.420
Grade 0	269 (69.69%)	107 (64.85%)	
Grade 1	27 (6.99%)	11 (6.67%)	
Grade 2	32 (8.29%)	21 (12.73%)	
Grade 3	58 (15.03%)	26 (15.76%)	
Preoperative TIMI blood flow ≤ grade 1 (n, %)	296 (76.68%)	118 (71.52%)	0.199
Syntax score (mean ± SD)	16.70±7.68	16.42±7.64	0.676
Syntax score ≥23 (n, %)	75 (19.43%)	31 (18.79%)	0.906
Collateral circulation (n, %)			0.920
Grade 0	312 (80.83%)	134 (81.21%)	
Grade 1	46 (11.92%)	17 (10.30%)	
Grade 2	20 (5.18%)	10 (6.06%)	
Grade 3	8 (2.07%)	4 (2.42%)	
Collateral circulation ≤ grade 1 (n, %)	358 (92.75%)	151 (91.52%)	0.603
Thrombus burden (n, %)	374 (96.89%)	156 (94.55%)	0.224
Thrombus burden score (n, %)			0.604
0	11 (2.85%)	9 (5.45%)	
1	32 (8.29%)	12 (7.27%)	
2	27 (6.99%)	11 (6.67%)	
3	18 (4.66%)	9 (5.45%)	
4	16 (4.15%)	10 (6.06%)	
5	282 (73.06%)	114 (69.09%)	
Thrombus burden score ≥4 (n, %)	298 (77.20%)	124 (75.15%)	0.661
Lesion length (mm, mean ± SD)	31.55±15.66	32.87±15.51	0.313
Lesion length ≥20 mm (n, %)	325 (84.42%)	135 (81.82%)	0.453
Number of stent implantation (n, %)			0.094
1	287 (74.55%)	114 (69.09%)	
2	89 (23.12%)	50 (30.30%)	
3	9 (2.34%)	1 (0.61%)	
Number of stent implantation ≥2 (n, %)	98 (25.45%)	51 (30.91%)	0.209
Infarction location (n, %)			0.709
Non-anterior wall	205 (53.11%)	91 (55.15%)	
Anterior wall	181 (46.89%)	74 (44.85%)	
Diameter of target lesion (mm, mean ± SD)	3.00±0.35	3.05±0.39	0.212
Diameter of target lesion ≥3.5 mm (n, %)	85 (22.02%)	42 (25.45%)	0.379
Number of lesions (n, %)			0.075
Single lesion	64 (16.67%)	29 (17.58%)	
Two lesions	123 (32.03%)	44 (26.67%)	
Three lesions	179 (46.61%)	75 (45.45%)	
LMCA and three lesions	18 (4.69%)	17 (10.30%)	
Intraoperative maximum dilation pressure (atm, mean ± SD)	13.96±3.36	13.82±2.90	0.928
Direct stenting (n, %)	6 (1.55%)	2 (1.21%)	1.000
Number of pre-dilation (mean ± SD)	1.81±1.67	1.66±1.12	0.357
Number of stent expansions (mean ± SD)	1.63±0.88	1.76±1.02	0.250
Post-dilatation (n, %)	164 (42.49%)	80 (48.48%)	0.224
Number of post-dilatation (mean ± SD)	1.01±1.53	1.01±1.30	0.412
Total times of dilatation (mean ± SD)	4.85±3.12	4.92±2.65	0.408
Total times of dilatation ≥4 (n, %)	245 (63.47%)	107 (64.85%)	0.772
Thrombus aspiration (n, %)	111 (28.98%)	55 (33.33%)	0.313
Culprit pathological calcification (n, %)			0.059
No	175 (45.34%)	81 (49.09%)	
Mild	142 (36.79%)	59 (35.76%)	
Moderate	57 (14.77%)	14 (8.48%)	
Severe	12 (3.11%)	11 (6.67%)	
Culprit lesion calcification ≥ moderate (n, %)	69 (17.88%)	25 (15.15%)	0.461
Culprit lesion tortuosity (n, %)			0.836
No	78 (20.21%)	30 (18.18%)	
Mild	194 (50.26%)	86 (52.12%)	
Moderate	109 (28.24%)	48 (29.09%)	
Severe	5 (1.30%)	1 (0.61%)	
Culprit lesion tortuosity ≥ moderate (n, %)	114 (29.53%)	49 (29.70%)	1.000
Culprit angular lesion (n, %)	78 (20.21%)	38 (23.03%)	0.494
IABP (n, %)	14 (3.63%)	8 (4.85%)	0.485
Ticagrelor (n, %)	215 (55.70%)	95 (57.58%)	0.708
ECG characteristics			
The maximum amplitude of ST elevation (cm, mean ± SD)	0.34±0.22	0.35±0.20	0.520
The maximum amplitude of ST elevation ≥0.4 cm (n, %)	146 (37.82%)	67 (40.61%)	0.567
Left ventricular ejection fraction (mean ± SD)	50.69±8.91	50.42±8.13	0.607
The number of leads for ST segment elevation (mean ± SD)	2.88±1.21	2.86±1.28	0.604
The number of leads for ST segment elevation ≥4 (n, %)	80 (20.78%)	37 (22.56%)	0.650
Biochemical indicators			
White blood cell count (10 ⁹ /L, mean ± SD)	10.26±3.23	10.56±2.82	0.106
Neutrophil count (10 ⁹ /L, mean ± SD)	8.17±3.07	8.45±2.81	0.202
Neutrophil ratio (N, %, mean ± SD)	78.40±10.55	78.98±9.34	0.858
Lymphocyte ratio (L, %, mean ± SD)	14.87±8.35	14.24±7.87	0.495
N/L (mean ± SD)	7.43±4.91	7.59±4.84	0.529
N/L >7 (n, %)	161 (43.05%)	78 (49.06%)	0.217
Platelet count (10 ⁹ /L, mean ± SD)	203.41±58.59	208.95±54.51	0.166
Platelet volume (mean ± SD)	9.87±1.59	9.88±1.50	0.837
Platelet distribution width (mean ± SD)	14.70±6.77	14.58±7.33	0.224
Creatine kinase (U/L, mean ± SD)	2,173.01±1,655.14	2,072.19±1,593.37	0.565
Creatine kinase-MB (U/L, mean ± SD)	212.37±210.24	202.20±167.66	0.789
Blood glucose (mmol/L, mean ± SD)	7.62±3.96	7.33±3.05	0.339
Blood glucose >8 mmol/L (n, %)	97 (26.01%)	45 (29.22%)	0.452
Serum creatinine (mmol/L, mean ± SD)	83.51±30.93	83.97±26.21	0.228
eGFR (mL/min, mean ± SD)	84.35±27.02	82.63±27.68	0.260
eGFR <60 mL/min (n, %)	62 (16.67%)	22 (13.92%)	0.516
LP(a) (mmol/L, mean ± SD)	22.16±52.12	27.20±56.78	0.720
LP(a) <0.5 mmol/L (n, %)	174 (46.65%)	75 (48.70%)	0.702
Apolipoprotein A1 (mmol/L, mean ± SD)	1.15±0.25	1.13±0.18	0.785
Apolipoprotein B (mmol/L, mean ± SD)	1.02±0.27	0.99±0.20	0.226
A1/B (mean ± SD)	1.17±0.37	1.18±0.36	0.479
Total cholesterol (mmol/L, mean ± SD)	4.79±1.04	4.66±1.00	0.084
TG (mmol/L, mean ± SD)	1.38±0.78	1.47±0.88	0.292
HDL-c (mmol/L, mean ± SD)	1.21±0.32	1.20±0.30	0.781

© Annals of Translational Medicine. All rights reserved.

<http://dx.doi.org/10.21037/atm-20-8003>