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Table S1. Mortality rates in patients with heart failure in the statin group and non-statin groups

Mortality,N(%)	Original cohort			PSM cohort		
	Statin	Non-statin	P value	Statin	Non-statin	P value
30 days	1056(14.0%)	915(24.0%)	< 0.001	414(17.0%)	520(21.3%)	<0.001
90 days	1617(21.4%)	1238(32.4%)	< 0.001	631(25.9%)	723(29.6%)	< 0.001
1 year	2440(32.3%)	1634(42.8%)	< 0.001	893(36.6%)	973(39.9%)	0.007

Table S2. Assessment of the goodness-of-fit of models.

	30-day mortality		90-day mortality		1-year mortality	
	AIC	BIC	AIC	BIC	AIC	BIC
Model I	36276.41	36282.00	52371.91	52377.87	74282.24	74288.55
Model II	34840.32	34974.39	50653.22	50798.18	72291.65	72443.15
Model III	33096.08	33403.32	48940.81	49268.43	70185.26	70532.44

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Figure S1. The association between statin administration and 1-year all-cause mortality in subgroups.

Variables	n (%)	HR (95%CI)		P	P for Interaction
All patients	11381 (100.00)	0.88 (0.82 - 0.95)	_	0.001	
Gender					0.464
F	5129 (45.07)	0.87 (0.79 - 0.97)	-	0.015	
M	6252 (54.93)	0.88 (0.79 - 0.98)	-	0.016	
Age					0.525
<65	2642 (23.21)	0.80 (0.64 - 1.01)	_	0.058	
≥65	8739 (76.79)	0.89 (0.82 - 0.96)	-	0.004	
Hypertension					0.785
No	7849 (68.97)	0.87 (0.79 - 0.95)	-	0.002	
Yes	3532 (31.03)	0.92 (0.79 - 1.07)	+	0.272	
Diabetes					0.853
No	6728 (59.12)	0.85 (0.77 - 0.93)	-	<.001	
Yes	4653 (40.88)	0.89 (0.79 - 1.00)	\dashv	0.055	
Myocardial infarction					0.632
No	8451 (74.26)	0.88 (0.81 - 0.96)	-	0.003	
Yes	2930 (25.74)	0.88 (0.73 - 1.05)	-	0.159	
PVD					0.482
No	9615 (84.48)	0.89 (0.82 - 0.97)	_	0.008	
Yes	1766 (15.52)	0.84 (0.70 - 1.01)	_	0.059	
Stoke					<.001
No	10233 (89.91)	0.90 (0.83 - 0.98)	_	0.011	
Yes	1148 (10.09)	0.72 (0.58 - 0.91)	_	0.005	
Hyperlipidaemia	,	,			<.001
No	5470 (48.06)	0.97 (0.88 - 1.08)	<u> </u>	0.609	
Yes	5911 (51.94)	0.75 (0.67 - 0.84)	_	<.001	
AFL/AF	(,	(0.717
No	5494 (48.27)	0.89 (0.79 - 1.00)	4	0.060	
Yes	5887 (51.73)	0.89 (0.81 - 0.98)		0.017	
CKD	0007 (01170)	0.00 (0.01 0.00)		01017	0.152
No	7035 (61.81)	0.91 (0.82 - 1.01)	4	0.072	01102
Yes	4346 (38.19)	0.82 (0.73 - 0.91)	_	<.001	
-00	2010 (00.10)				
			11	3	