

Table S1. Patient's characteristics before propensity score matching.

Before Matching					
Variable	N	Exposure	Non-exposure	SMD	p-value
		n (%)	n (%)		
Total	37,246	7002 (18.80)	30,244 (81.20)		
Sex					<0.0001
Female	11849	2696 (38.50)	9153 (30.26)	0.17	
Male	25397	4306 (61.50)	21,091 (69.74)	0.17	
Age group				0.01	<0.0001
18–34	9326	1616 (23.08)	7710 (25.49)		
35–49	13,938	2787 (39.80)	11,151 (36.87)		
50–64	9186	1778 (25.39)	7408 (24.49)		
65+	4796	821 (11.73)	3975 (13.14)		
Covariate					
(1) Acute myocardial infarction	85	9 (0.13)	76 (0.25)	0.03	0.0524
(2) Congestive heart failure	488	68 (0.97)	420 (1.39)	0.04	0.0056
(3) Peripheral vascular disease	155	18 (0.26)	137 (0.45)	0.03	0.0217
(4) Cerebral vascular accident	1321	185 (2.64)	1136 (3.76)	0.06	<0.0001
(5) Dementia	188	20 (0.29)	168 (0.56)	0.04	0.0041
(6) Pulmonary disease	2437	457 (6.53)	1980 (6.55)	0.00	0.9513
(7) Connective tissue disorder	261	55 (0.79)	206 (0.68)	0.01	0.3455
(8) Peptic ulcer	4979	1143 (16.32)	3836 (12.68)	0.10	<0.0001
(9) Liver disease	7717	1588 (22.68)	6129 (20.27)	0.06	<0.0001
(10) Diabetes	3294	488 (6.97)	2806 (9.28)	0.08	<0.0001
(11) Diabetes complications	665	117 (1.67)	548 (1.81)	0.11	0.4221
(12) Paraplegia	145	18 (0.26)	127 (0.42)	0.28	0.0486
(13) Renal disease	860	142 (2.03)	718 (2.37)	0.24	0.0823
(15) Severe liver disease	9	4 (0.06)	5 (0.02)	0.21	0.0489
HTN	5706	1049 (14.98)	4657 (15.40)	0.01	0.3831
Prior medication					
Interferon-based therapy					
Interferon	161	23 (0.33)	138 (0.46)	0.02	0.1418
Metformin	2022	332 (4.74)	1690 (5.59)	0.04	0.0049
Aspirin	1532	291 (4.16)	1241 (4.10)	0.00	0.8415
Angiotensin converting-enzyme inhibitor	952	211 (3.01)	741 (2.45)	0.35	0.0071

Captopril	295	77 (1.10)	218 (0.72)		0.0013
Lisinopril	207	36 (0.51)	171 (0.57)		0.6031
Perindopril	146	26 (0.37)	120 (0.40)		0.7588
Ramipril	118	23 (0.33)	95 (0.31)		0.8472
Quinapril	54	13 (0.19)	41 (0.14)		0.3208
Benazepril	5	3 (0.04)	2 (0.01)		0.0184
Cilazapril	34	9 (0.13)	25 (0.08)		0.2520
Fosinopril	157	37 (0.53)	120 (0.40)		0.1255
Lipid lowering drugs	732	131 (1.87)	601 (1.99)	0.01	0.5276
Clofibrate	1	0 (0.00)	1 (0.00)		0.6304
Bezafibrate	67	13 (0.19)	54 (0.18)		0.8993
Gemfibrozil	344	79 (1.13)	265 (0.88)		0.0470
Fenofibrate	354	45 (0.64)	309 (1.02)		0.0032
Nicotinic acid	8	2 (0.03)	6 (0.02)		0.6535
Acipimox	16	6 (0.09)	10 (0.03)		0.0555
Statins	350	48 (0.69)	302 (1.00)	0.03	0.0144
Atorvastatin	14	0 (0.00)	14 (0.05)		0.0718
Fluvastatin	116	26 (0.37)	90 (0.30)		0.3183
Pitavastatin	3	0 (0.00)	3 (0.01)		0.4046
Rosuvastatin	193	19 (0.27)	174 (0.58)		0.0014
Simvastatin	42	5 (0.07)	37 (0.12)		0.2525
Diuretics	877	145 (2.07)	732 (2.42)	0.02	0.0822
Furosemide	759	125 (1.79)	634 (2.10)		0.0969
Spironolactone	267	36 (0.51)	231 (0.76)		0.0257
Selective beta blockers	1608	306 (4.37)	1302 (4.30)	0.00	0.8089

Table S2. Factors associated with decompensation. CI—confidence interval;

Variable	Adjusted HR	95% CI	<i>p</i> -value
Propranolol exposure			
1~28 days vs. non-exposure	2.34	(1.90 2.88)	<0.0001
29~90 days vs. non-exposure	2.16	(1.64 2.85)	<0.0001
>90 days vs. non-exposure	1.43	(1.09 1.87)	0.0099
Sex			
Male vs. Female	1.62	(1.34 1.96)	<0.0001
Age group			
18–34			
35–49	1.54	(1.14 2.09)	0.0045
50–64	2.14	(1.56 2.92)	<0.0001
65+	2.81	(2.00 3.96)	<0.0001
Covariate			
CCI			
Acute myocardial infarction	0.69	(0.09 5.32)	0.7203
Congestive heart failure	0.79	(0.41 1.53)	0.4809
Peripheral vascular disease	0.69	(0.10 4.98)	0.7173
Cerebral vascular accident	1.09	(0.70 1.70)	0.7090
Dementia	2.12	(0.78 5.75)	0.1386
Pulmonary disease	0.77	(0.56 1.06)	0.1058
Connective tissue disorder	0.28	(0.04 2.01)	0.2058
Peptic ulcer	1.57	(1.29 1.91)	<0.0001
Liver disease	0.94	(0.77 1.15)	0.5597
Diabetes	0.75	(0.52 1.08)	0.1214
Diabetes complications	1.09	(0.65 1.82)	0.7574
Paraplegia	1.51	(0.34 6.69)	0.5889
Renal disease	0.99	(0.59 1.67)	0.9798
Hypertension	0.67	(0.51 0.88)	0.0041
Baseline medications			
Metformin	1.91	(1.29 2.83)	0.0011
Aspirin	0.65	(0.42 1.00)	0.0491
Angiotensin converting-enzyme inhibitor	0.68	(0.42 1.10)	0.1165
Lipid lowering drugs	1.19	(0.66 2.13)	0.5675
Diuretics	2.67	(1.91 3.73)	0.0000
Selective beta blockers	1.46	(0.96 2.22)	0.0784
Concomitant medications			

Selective beta blockers	0.28	(0.20 0.41)	<0.0001
Diuretics	5.09	(4.21 6.16)	<0.0001

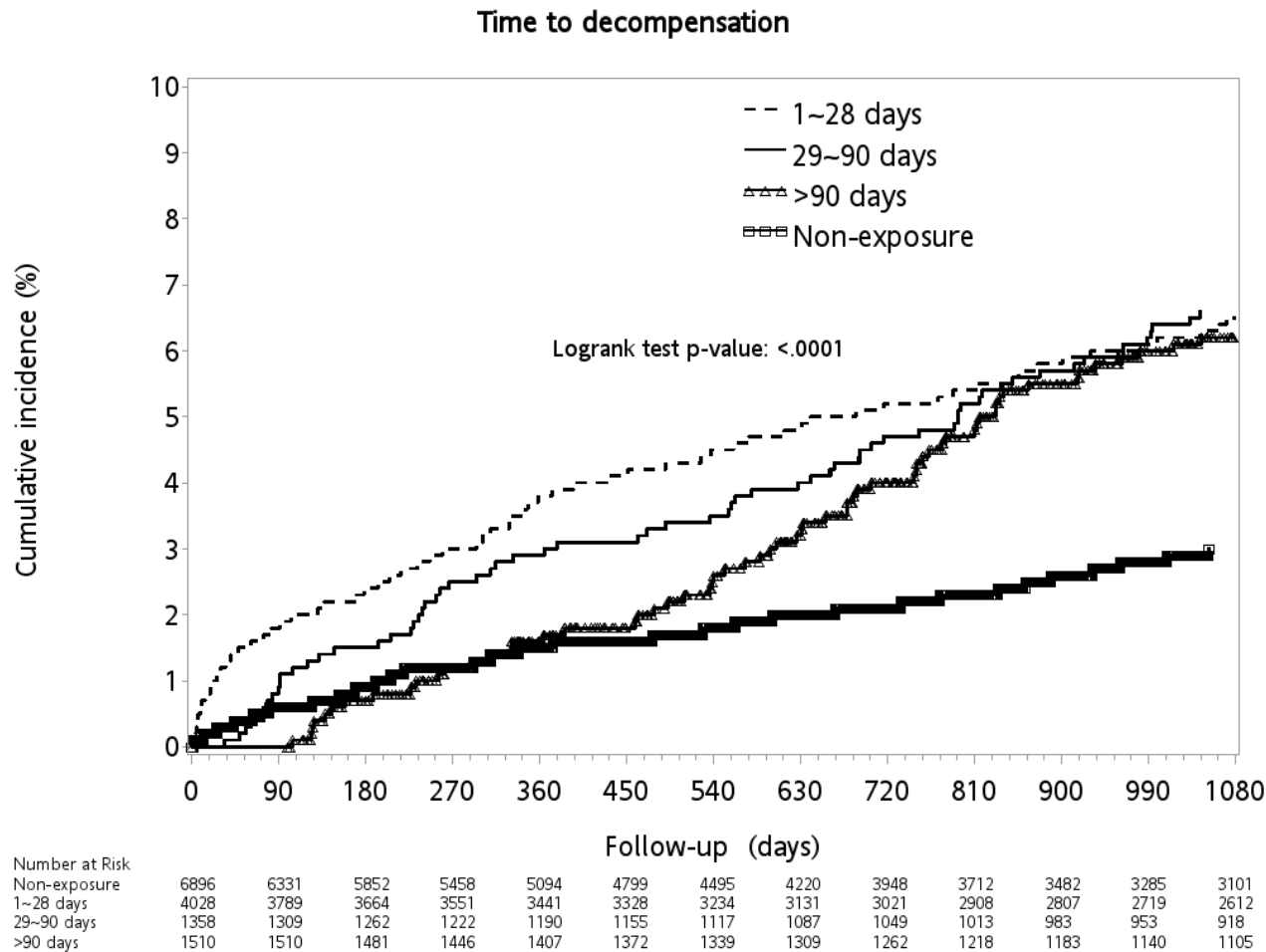


Figure S1. Cumulative incidence of decompensation between groups.