

SUPPLEMENTAL MATERIAL

Table S1. Baseline hospital characteristics per quantiles by prescription rate of aspirin on admission.

	Q1 (189 Hospitals)	Q2 (182 Hospitals)	Q3 (186 Hospitals)	Q4 (186 Hospitals)	P
Age in years, mean (SD)	71.26 (4.51)	69.19 (2.62)	68.68 (2.45)	68.82 (2.36)	<0.001
Female	28.57 (24.14, 37.93)	26.87 (23.08, 30.77)	25.00 (21.21, 29.33)	25.35 (22.08, 28.89)	<0.001
Body mass index, mean (SD), kg/m ²	23.34 (1.32)	23.71 (0.76)	23.73 (0.61)	23.73 (0.71)	<0.001
Hypertension	54.55 (41.67, 65.71)	62.07 (53.95, 69.01)	64.71 (53.13, 74.40)	66.67 (56.10, 75.00)	<0.001
Diabetes	27.86 (19.51, 35.56)	28.22 (21.74, 35.21)	28.85 (21.88, 33.33)	30.17 (25.00, 36.26)	0.047
Smoker (current and ex- smoker)	53.33 (38.46, 63.64)	58.26 (50.00, 66.67)	59.09 (50.00, 66.97)	58.76 (50.00, 67.05)	<0.001
Hemodialysis	0.00 (0.00, 4.44)	2.60 (0.00, 4.55)	1.65 (0.00, 3.14)	1.76 (0.00, 3.13)	0.002
Charlson Score, mean (SD)	2.16 (0.33)	2.11 (0.32)	2.05 (0.35)	2.05 (0.35)	0.002

Killip Class I	41.94 (22.22, 57.14)	51.59 (33.33, 62.50)	52.78 (38.26, 62.92)	52.76 (36.46, 67.79)	<0.001
II	32.35 (21.21, 44.00)	30.97 (17.65, 39.71)	29.44 (20.67, 39.66)	26.72 (18.42, 41.51)	0.24
III	9.09 (5.00, 16.67)	7.32 (3.97, 11.16)	7.25 (3.90, 11.11)	6.67 (3.37, 10.00)	0.001
IV	12.20 (5.88, 19.35)	9.17 (5.56, 14.44)	9.43 (5.00, 14.89)	9.40 (5.43, 13.19)	0.031
CAG	87.50 (75.00, 94.44)	94.12 (90.00, 96.15)	95.24 (92.50, 97.39)	96.34 (93.88, 97.98)	<0.001
PCI	75.00 (62.50, 84.38)	85.05 (79.45, 89.13)	87.69 (82.93, 91.96)	90.54 (85.71, 93.63)	<0.001
CABG	0.00 (0.00, 3.13)	0.00 (0.00, 4.35)	1.18 (0.00, 3.23)	0.00 (0.00, 2.11)	0.005
IABP	8.00 (0.00, 16.46)	11.94 (6.78, 20.00)	13.04 (9.33, 19.13)	12.85 (7.69, 18.92)	<0.001
PCPS	0.00 (0.00, 1.67)	1.00 (0.00, 2.80)	1.12 (0.00, 2.47)	1.01 (0.00, 2.38)	<0.001
Fibrinolysis	0.00 (0.00, 0.00)	0.00 (0.00, 0.43)	0.00 (0.00, 0.00)	0.00 (0.00, 1.01)	0.023
Cardiac Rehabilitation	71.26 (4.51)	69.19 (2.62)	68.68 (2.45)	68.82 (2.36)	<0.001

Values presented are given as number (percentage) unless stated.

SD = standard deviation, IQR = interquartile range, CAG = coronary angiography, PCI = percutaneous coronary intervention, CABG = coronary arterial bypass grafting, IABP = intra-aortic balloon pump, PCPS = Percutaneous Cardio Pulmonary Support.

Table S2. Baseline hospital characteristics per quantiles by prescription rate of β -Blocker on admission.

	Q1 (186 Hospitals)	Q2 (185 Hospitals)	Q3 (186 Hospitals)	Q4 (187 Hospitals)	P
Age in years, mean (SD)	70.49 (4.06)	69.45 (3.33)	69.20 (2.75)	68.85 (2.63)	<0.001
Female	27.98 (22.22, 32.50)	26.47 (22.36, 31.25)	25.71 (22.50, 30.23)	25.54 (22.22, 29.98)	0.063
Body mass index, mean (SD), kg/m ²	23.48 (1.18)	23.63 (0.92)	23.67 (0.78)	23.72 (0.69)	0.074
Hypertension	59.94 (45.45, 69.19)	61.11 (50.78, 68.75)	62.55 (51.61, 70.97)	66.67 (54.06, 76.24)	0.002
Diabetes	28.88 (20.00, 35.56)	28.75 (20.69, 34.78)	29.23 (24.00, 35.90)	28.57 (22.30, 33.14)	0.33
Smoker (current and ex- smoker)	55.34 (45.68, 65.71)	58.54 (49.21, 68.18)	57.94 (47.22, 68.09)	57.14 (48.98, 65.36)	0.099
Hemodialysis	0.93 (0.00, 3.33)	2.38 (0.00, 4.88)	2.32 (0.00, 4.00)	1.94 (0.00, 3.31)	<0.001
Charlson Score, mean (SD)	2.05 (0.34)	2.09 (0.33)	2.11 (0.36)	2.11 (0.33)	0.32

Killip Class I	46.77 (30.00, 61.90)	51.52 (34.69, 62.92)	50.13 (33.94, 62.86)	50.00 (34.29, 61.80)	0.61
II	30.93 (20.00, 43.48)	28.57 (18.03, 38.69)	29.01 (19.05, 39.02)	31.54 (20.71, 43.16)	0.48
III	7.60 (3.94, 14.67)	8.04 (4.35, 12.50)	6.95 (3.90, 11.11)	7.49 (4.17, 10.70)	0.72
IV	9.54 (5.00, 15.56)	10.00 (5.67, 15.33)	10.53 (6.25, 14.95)	9.76 (4.94, 14.29)	0.40
CAG	93.65 (86.05, 97.37)	93.75 (88.95, 96.89)	95.03 (91.03, 96.97)	94.94 (91.58, 97.07)	0.036
PCI	85.09 (75.00, 90.85)	85.37 (78.26, 90.16)	87.10 (80.56, 91.18)	86.42 (79.89, 90.96)	0.11
CABG	0.00 (0.00, 1.18)	0.33 (0.00, 4.08)	0.00 (0.00, 3.66)	0.00 (0.00, 3.86)	<0.001
IABP	8.63 (3.37, 16.67)	11.49 (6.45, 18.97)	11.99 (7.81, 19.86)	13.31 (8.46, 20.09)	<0.001
PCPS	0.00 (0.00, 1.39)	0.86 (0.00, 2.80)	1.09 (0.00, 2.56)	1.35 (0.00, 2.58)	<0.001
Fibrinolysis	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 1.31)	0.007
Cardiac Rehabilitation	33.33 (10.00, 78.57)	56.86 (12.68, 80.97)	48.68 (13.56, 80.41)	60.77 (14.06, 84.15)	0.089

Values presented are given as number (percentage) unless stated.

SD = standard deviation, IQR = interquartile range, CAG = coronary angiography, PCI = percutaneous coronary intervention, CABG = coronary arterial bypass grafting, IABP = intra-aortic balloon pump, PCPS = Percutaneous Cardio Pulmonary Support.

Table S3. Baseline hospital characteristics per quantiles by prescription rate of aspirin on admission.

	Q1 (186 Hospitals)	Q2 (185 Hospitals)	Q3 (187 Hospitals)	Q4 (183 Hospitals)	P
Age in years, mean (SD)	71.44 (4.26)	69.21 (2.64)	68.80 (2.21)	68.54 (2.86)	<0.001
Female	29.40 (24.39, 37.93)	26.87 (22.86, 30.00)	25.00 (21.88, 29.17)	24.83 (21.05, 29.55)	<0.001
Body mass index, mean (SD), kg/m ²	23.21 (1.18)	23.81 (0.80)	23.71 (0.67)	23.76 (0.80)	<0.001
Hypertension	54.86 (40.00, 65.06)	64.57 (54.29, 70.71)	64.84 (55.00, 74.03)	64.54 (53.13, 76.44)	<0.001
Diabetes	27.27 (19.10, 34.21)	29.29 (22.58, 35.81)	28.75 (22.37, 33.54)	29.29 (23.81, 35.80)	0.038
Smoker (current and ex- smoker)	53.87 (40.74, 63.16)	56.25 (47.83, 65.90)	60.61 (50.00, 67.95)	58.33 (50.94, 67.74)	<0.001
Hemodialysis	2.11 (0.00, 5.56)	2.13 (0.00, 4.05)	1.92 (0.00, 3.25)	1.32 (0.00, 3.08)	0.083
Charlson Score, mean (SD)	2.17 (0.35)	2.11 (0.31)	2.06 (0.32)	2.03 (0.36)	<0.001

Killip Class I	41.18 (25.81, 57.14)	54.29 (37.17, 65.00)	51.72 (36.96, 62.50)	49.32 (32.14, 65.06)	<0.001
II	30.22 (20.00, 42.86)	25.71 (19.64, 38.71)	30.41 (18.31, 40.00)	32.35 (20.67, 46.59)	0.067
III	9.09 (5.21, 16.67)	6.78 (3.08, 11.43)	6.80 (4.17, 10.17)	7.14 (3.90, 11.11)	0.002
IV	12.86 (6.25, 20.37)	10.00 (5.83, 14.29)	9.52 (6.31, 14.91)	8.11 (4.32, 13.24)	<0.001
CAG	90.62 (78.67, 94.48)	94.68 (90.00, 96.83)	94.90 (92.19, 97.28)	96.12 (93.44, 97.80)	<0.001
PCI	78.50 (63.64, 85.71)	85.51 (79.41, 89.74)	87.72 (82.14, 91.67)	89.19 (84.62, 92.86)	<0.001
CABG	0.00 (0.00, 2.17)	0.00 (0.00, 3.33)	0.74 (0.00, 3.60)	0.00 (0.00, 2.63)	0.006
IABP	9.86 (2.50, 19.51)	11.76 (7.32, 19.75)	13.39 (8.00, 18.45)	11.11 (6.58, 18.18)	0.021
PCPS	0.00 (0.00, 2.56)	1.06 (0.00, 3.28)	1.19 (0.00, 2.13)	0.00 (0.00, 1.94)	0.014
Fibrinolysis	0.00 (0.00, 0.00)	0.00 (0.00, 0.83)	0.00 (0.00, 0.73)	0.00 (0.00, 0.52)	0.16
Cardiac Rehabilitation	30.66 (10.96, 67.77)	56.51 (16.67, 79.10)	56.86 (11.02, 82.22)	57.55 (12.00, 87.84)	<0.001

Values presented are given as number (percentage) unless stated.

SD = standard deviation, IQR = interquartile range, CAG = coronary angiography, PCI = percutaneous coronary intervention, CABG = coronary arterial bypass grafting, IABP = intra-aortic balloon pump, PCPS = Percutaneous Cardio Pulmonary Support.

Table S4. Baseline hospital characteristics per quantiles by prescription rate of β -Blocker on discharge.

	Q1 (186 Hospitals)	Q2 (185 Hospitals)	Q3 (185 Hospitals)	Q4 (185 Hospitals)	P
Age in years, mean (SD)	70.89 (4.43)	69.73 (2.90)	68.75 (2.41)	68.62 (2.51)	<0.001
Female	28.03 (23.44, 34.62)	27.45 (22.73, 31.25)	25.26 (22.12, 28.87)	25 (21.66, 30.00)	<0.001
Body mass index, mean (SD), kg/m ²	23.44 (1.24)	23.54 (0.81)	23.80 (0.67)	23.72 (0.79)	<0.001
Hypertension	55.04 (40.00 , 64.52)	62.07 (51.03, 70.73)	65.73 (54.37, 75.00)	67.48 (56.63, 76.44)	<0.001
Diabetes	28.03 (19.64, 35.35)	28.57 (22.22, 34.00)	29.29 (23.53, 35.56)	29.03 (22.86, 34.78)	0.46
Smoker (current and ex- smoker)	54.93 (42.31, 65.22)	56.90 (46.30, 65.71)	61.11 (52.11, 68.42)	57.14 (48.04, 65.20)	<0.001
Hemodialysis	0 (0, 3.33)	2.30 (0, 4.13)	2.24 (0, 4.26)	1.96 (0, 3.33)	0.002
Charlson Score, mean (SD)	2.07 (0.39)	2.09 (0.32)	2.11 (0.36)	2.09 (0.29)	0.72

Killip Class I	47.06 (30.77, 60.98)	50 (32.08, 62.50)	52.94 (35.16, 64.71)	48.94 (33.33, 61.40)	0.24
II	30.93 (20.00, 42.37)	28.57 (19.10, 39.47)	29.46 (19.00, 41.03)	30.65 (20.39, 44.44)	0.53
III	8.52 (4.17, 15.38)	7.69 (3.95, 11.48)	6.90 (3.41, 10.37)	7.45 (4.42, 10.87)	0.19
IV	10.00 (4.76, 15.11)	10.23 (6.25, 14.71)	9.09 (5.56, 15.19)	10 (5.06, 14.48)	0.68
CAG	92.27 (82.76, 96.77)	94.12 (89.02, 96.88)	94.55 (91.07, 96.72)	95.24 (92.68, 97.22)	<0.001
PCI	84.67 (69.17, 90.24)	85.04 (78.05, 89.66)	86.54 (81.25, 91.01)	87.69 (81.78, 91.67)	<0.001
CABG	0 (0, 0.08)	0 (0, 3.13)	1 (0, 4.08)	1.22 (0, 3.97)	<0.001
IABP	7.00 (0, 14.44)	11.48 (6.78, 18.92)	12.31 (8.04, 21.36)	15.38 (9.68, 20.51)	<0.001
PCPS	0 (0, 1.19)	0 (0, 2.36)	1.35 (0, 2.74)	1.37 (0, 2.87)	<0.001
Fibrinolysis	0 (0, 0)	0 (0, .68)	0 (0, 0.75)	0 (0, 0.66)	0.26
Cardiac Rehabilitation	25.25 (6.67, 68.57)	48.78 (13.41, 78.95)	48.57 (13.38, 81.00)	68.18 (20.00, 86.90)	<0.001

Values presented are given as number (percentage) unless stated.

SD = standard deviation, IQR = interquartile range, CAG = coronary angiography, PCI = percutaneous coronary intervention, CABG = coronary arterial bypass grafting, IABP = intra-aortic balloon pump, PCPS = Percutaneous Cardio Pulmonary Support.

Table S5. Baseline hospital characteristics per quantiles by prescription rate of ACEI/ARB on discharge.

	Q1 (187 Hospitals)	Q2 (184 Hospitals)	Q3 (186 Hospitals)	Q4 (184 Hospitals)	P
Age in years, mean (SD)	71.15 (4.28)	69.49 (3.00)	68.83 (2.65)	68.49 (2.22)	<0.001
Female	28.57 (22.73, 36.00)	26.54 (22.22, 30.87)	26.67 (22.63, 30.37)	25.00 (22.06, 28.57)	<0.001
Body mass index, mean (SD), kg/m ²	23.35 (1.19)	23.61 (0.87)	23.69 (0.72)	23.86 (0.70)	<0.001
Hypertension	51.61 (40.00, 63.16)	61.14 (51.88, 68.61)	65.17 (55.17, 73.68)	69.14 (59.03, 78.21)	<0.001
Diabetes	27.27 (19.64, 33.54)	30.74 (22.80, 37.19)	28.85 (21.88, 34.48)	28.41 (23.29, 33.34)	0.026
Smoker (current and ex- smoker)	54.17 (40.00, 63.89)	57.03 (46.39, 65.52)	59.94 (50.00, 68.00)	59.30 (51.93, 67.81)	<0.001
Hemodialysis	0.00 (0.00, 4.26)	2.15 (0.00, 4.24)	2.35 (0.67, 3.70)	1.64 (0.00, 3.51)	0.032
Charlson Score, mean (SD)	2.11 (0.38)	2.09 (0.36)	2.12 (0.33)	2.05 (0.29)	0.13

Killip Class I	46.67 (30.00, 60.00)	48.96 (33.70, 61.72)	51.04 (33.94, 63.31)	51.91 (35.26, 64.85)	0.14
II	32.11 (20.00, 42.31)	29.41 (19.48, 39.74)	27.59 (20.41, 40.63)	29.66 (19.42, 42.89)	0.78
III	8.22 (3.66, 14.67)	7.54 (4.32, 13.45)	7.16 (3.85, 10.34)	7.43 (4.06, 10.62)	0.33
IV	10.00 (4.88, 16.22)	10.65 (5.92, 15.89)	10.26 (5.56, 15.20)	8.70 (5.32, 13.43)	0.16
CAG	91.43 (76.92, 96.08)	94.86 (90.08, 97.01)	93.98 (90.16, 96.55)	95.68 (93.19, 97.33)	<0.001
PCI	81.71 (62.50, 87.80)	86.52 (80.15, 90.88)	85.71 (79.79, 90.00)	88.81 (82.31, 92.59)	<0.001
CABG	0.00 (0.00, 0.00)	0.00 (0.00, 3.43)	0.84 (0.00, 3.45)	1.22 (0.00, 3.92)	<0.001
IABP	6.78 (0.00, 15.00)	12.67 (8.00, 21.21)	12.50 (8.54, 19.35)	13.75 (8.02, 19.66)	<0.001
PCPS	0.00 (0.00, 1.27)	1.03 (0.00, 3.10)	1.38 (0.00, 2.56)	1.06 (0.00, 2.17)	<0.001
Fibrinolysis	0.00 (0.00, 0.00)	0.00 (0.00, 0.68)	0.00 (0.00, 0.52)	0.00 (0.00, 0.70)	0.40
Cardiac Rehabilitation	35.05 (10.96, 70.83)	59.95 (14.15, 81.77)	41.41 (12.43, 80.77)	60.75 (12.59, 85.63)	0.020

Values presented are given as number (percentage) unless stated.

SD = standard deviation, IQR = interquartile range, CAG = coronary angiography, PCI = percutaneous coronary intervention, CABG = coronary arterial bypass grafting, IABP = intra-aortic balloon pump, PCPS = Percutaneous Cardio Pulmonary Support.

Table S6. Baseline hospital characteristics per quantiles by prescription rate of statin on discharge.

	Q1 (188 Hospitals)	Q2 (183 Hospitals)	Q3 (185 Hospitals)	Q4 (185 Hospitals)	P
Age in years, mean (SD)	71.45 (4.39)	69.50 (2.51)	69.00 (2.34)	68.01 (2.44)	<0.001
Female	28.57 (24.39, 36.60)	27.30 (22.73, 30.77)	25.68 (22.05, 30.19)	24.52 (21.03, 28.44)	<0.001
Body mass index, mean (SD), kg/m ²	23.26 (1.20)	23.67 (0.71)	23.72 (0.74)	23.86 (0.79)	<0.001
Hypertension	53.85 (40.00, 63.97)	62.80 (51.61, 71.26)	64.84 (56.82, 71.43)	67.97 (54.55, 77.78)	<0.001
Diabetes	27.27 (19.84, 35.34)	29.55 (22.22, 35.21)	29.29 (23.33, 35.71)	28.52 (22.60, 33.79)	0.40
Smoker (current and ex- smoker)	53.84 (41.62, 63.76)	57.14 (47.33, 65.79)	59.34 (50.53, 66.67)	60.00 (50.00, 67.95)	0.002
Hemodialysis	1.33 (0.00, 5.32)	2.27 (0.00, 4.04)	1.67 (0.00, 3.33)	1.95 (0.00, 3.08)	0.60
Charlson Score, mean (SD)	2.13 (0.38)	2.12 (0.32)	2.06 (0.31)	2.06 (0.34)	0.086

Killip Class I	42.86 (27.27, 57.79)	50.00 (34.15, 62.30)	50.68 (36.76, 63.36)	52.94 (35.38, 66.67)	<0.001
II	32.42 (21.40, 44.22)	28.89 (17.78, 40.00)	29.13 (20.41, 40.38)	29.44 (18.99, 40.00)	0.18
III	8.99 (4.35, 16.11)	8.06 (4.26, 12.23)	7.14 (3.23, 10.75)	6.58 (4.29, 9.72)	0.009
IV	10.60 (5.04, 17.52)	10.31 (6.41, 14.71)	10.00 (6.03, 14.29)	8.75 (4.79, 13.85)	0.091
CAG	90.91 (78.29, 96.43)	93.83 (88.71, 96.55)	94.74 (92.11, 97.06)	95.83 (92.89, 97.44)	<0.001
PCI	80.51 (63.64, 87.66)	85.94 (78.26, 90.14)	87.25 (81.71, 91.78)	87.72 (83.94, 92.31)	<0.001
CABG	0.00 (0.00, 1.36)	0.00 (0.00, 2.94)	1.05 (0.00, 4.11)	0.66 (0.00, 3.36)	<0.001
IABP	8.65 (0.00, 16.29)	12.41 (7.84, 20.41)	12.46 (7.76, 20.41)	12.40 (7.89, 18.25)	<0.001
PCPS	0.00 (0.00, 1.80)	1.04 (0.00, 2.90)	1.22 (0.00, 2.74)	0.53 (0.00, 2.00)	<0.001
Fibrinolysis	0.00 (0.00, 0.00)	0.00 (0.00, 0.26)	0.00 (0.00, 0.83)	0.00 (0.00, 0.69)	0.035
Cardiac Rehabilitation	30.22 (10.54, 71.13)	48.57 (13.38, 76.92)	66.67 (16.87, 85.37)	50.00 (10.77, 85.19)	<0.001

Values presented are given as number (percentage) unless stated.

SD = standard deviation, IQR = interquartile range, CAG = coronary angiography, PCI = percutaneous coronary intervention, CABG = coronary arterial bypass grafting, IABP = intra-aortic balloon pump, PCPS = Percutaneous Cardio Pulmonary Support.

Table S7. Correlation of hospital prescription rate of guideline-directed medications.

	Aspirin (admission)	β-blocker (admission)	Aspirin (discharge)	β-blocker (discharge)	ACE-I/ARB (discharge)	Statin (discharge)
Aspirin (admission)	1.00					
β-blocker(admission)	0.15*	1.00				
Aspirin (discharge)	0.37*	0.09*	1.00			
β-blocker (discharge)	0.13*	0.43*	0.34*	1.00		
ACE-I/ARB (discharge)	0.2*	0.14*	0.43*	0.33*	1.00	
Statin (discharge)	0.26*	0.13*	0.54*	0.31*	0.40*	1.00

* Indicates p<0.05

ACEI, angiotensin-converting enzyme inhibitor; ARB, angiotensin receptor blocker

Table S8. Incidence Rate Ratio for In-hospital Mortality According to the Quantile of Each Guideline-directed Medication by mixed Poisson regression model.

	Q1	Q2		Q3		Q4		P for
	IRR	IRR (95% CI)	P	IRR (95% CI)	P	IRR (95% CI)	P	trend
Multivariate analysis model 1 (Adjusted for age, sex, Charlson's comorbidity index and Killip class)								
Aspirin (admission)	1.00	0.89 (0.80-0.99)	0.039	0.77 (0.68-0.86)	<0.001	0.74 (0.66-0.83)	<0.001	<0.001
β-blocker(admission)	1.00	1.00 (0.90-1.11)	0.999	0.92 (0.83-1.03)	0.156	0.86 (0.77-0.97)	<0.001	0.003
Aspirin (discharge)	1.00	0.76 (0.68-0.84)	<0.001	0.70 (0.63-0.77)	<0.001	0.53 (0.47-0.59)	<0.001	<0.001
β-blocker (discharge)	1.00	0.87 (0.78-0.97)	0.011	0.81 (0.73-0.91)	<0.001	0.80 (0.72-0.90)	<0.001	<0.001
ACE-I/ARB (discharge)	1.00	0.89 (0.80,1.00)	0.042	0.82 (0.73-0.92)	0.001	0.74 (0.66-0.83)	<0.001	<0.001
Statin (discharge)	1.00	0.88 (0.79-0.98)	0.020	0.79 (0.71-0.88)	<0.001	0.68 (0.60-0.76)	<0.001	<0.001

Multivariate analysis model 2 (Adjusted for age, sex, Charlson's comorbidity index, Killip class, hospital bed number, number of patients of AMI and number of cardiologists)								
Aspirin (admission)	1.00	0.91 (0.82-1.02)	0.115	0.79 (0.71-0.89)	<0.001	0.77 (0.69-0.87)	<0.001	<0.001
β-blocker(admission)	1.00	1.03 (0.93-1.14)	0.595	0.92 (0.82-1.02)	0.128	0.88 (0.78-0.98)	0.020	0.002
Aspirin (discharge)	1.00	0.79 (0.71-0.87)	<0.001	0.71 (0.64-0.78)	<0.001	0.54 (0.49-0.61)	<0.001	<0.001
β-blocker (discharge)	1.00	0.85 (0.76-0.95)	0.003	0.82 (0.73-0.91)	<0.001	0.80 (0.72-0.89)	<0.001	<0.001
ACE-I/ARB (discharge)	1.00	0.88 (0.79-0.98)	0.023	0.82 (0.74-0.92)	0.001	0.73 (0.65-0.82)	<0.001	<0.001
Statin (discharge)	1.00	0.88 (0.79-0.98)	0.021	0.80 (0.72-0.90)	<0.001	0.67 (0.62-0.76)	<0.001	<0.001

IRR = incidence rate ratio.

ACEI, angiotensin-converting enzyme inhibitor; ARB, angiotensin receptor blocker; AMI, acute myocardial infarction

Table S9. Hospital characteristics according to composite prescription score (CPS).

	CPS 6-10 (188 Hospitals)	CPS 12-15 (195 Hospitals)	CPS 16-19 (217 Hospitals)	CPS 20-24 (141 Hospitals)	P
Age in years, mean (SD)	71.54 (4.32)	69.30 (2.69)	68.79 (2.47)	68.15 (2.15)	<0.001
Female	29.29 (24.32, 36.60)	26.83 (22.73, 31.03)	25.84 (22.08, 29.63)	24.53 (21.21, 27.01)	<0.001
Body mass index, mean (SD), kg/m ²	23.27 (1.22)	23.73 (0.79)	23.72 (0.80)	23.81 (0.55)	<0.001
Hypertension	53.14 (40.00, 63.82)	61.54 (53.33, 67.78)	65.38 (54.90, 73.91)	69.62 (58.97, 78.64)	<0.001
Diabetes	27.68 (19.60, 34.81)	28.57 (21.26, 36.17)	29.58 (22.64, 34.72)	28.57 (23.53, 33.33)	0.45
Smoker (current and ex- smoker)	52.92 (40.00, 61.32)	58.52 (48.55, 67.05)	60.19 (51.18, 68.64)	57.92 (49.32, 65.90)	<0.001
Hemodialysis	0.31 (0.00, 4.52)	2.44 (0.00, 4.48)	1.96 (0.00, 3.39)	1.65 (0.00, 3.03)	0.029

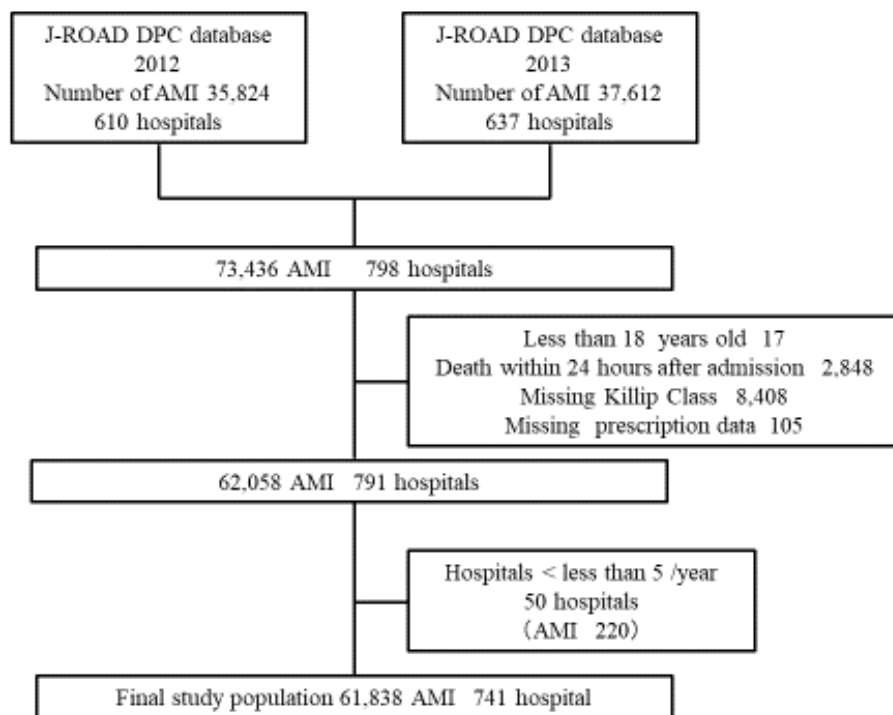
Charlson Score, mean (SD)	2.14 (0.35)	2.08 (0.34)	2.09 (0.36)	2.05 (0.30)	0.13
Killip Class I	43.66 (28.39, 60.00)	48.78 (34.48, 60.98)	53.13 (34.07, 65.00)	52.13 (37.87, 65.32)	0.011
II	30.66 (20.00, 42.62)	29.51 (19.32, 39.71)	30.34 (19.74, 44.44)	28.00 (20.00, 36.84)	0.70
III	8.75 (4.61, 15.87)	8.16 (4.30, 13.33)	6.51 (3.16, 10.23)	7.25 (4.42, 10.00)	0.003
IV	11.00 (5.56, 16.67)	11.02 (6.52, 17.07)	8.74 (5.00, 12.37)	9.52 (5.00, 13.95)	0.003
CAG	90.16 (77.00, 95.49)	93.67 (88.46, 96.67)	95.24 (92.59, 97.44)	96.10 (93.99, 97.40)	<0.001
PCI	78.20 (62.41, 87.37)	85.37 (79.19, 90.52)	87.40 (82.14, 91.72)	89.23 (85.71, 92.81)	<0.001
CABG	0.00 (0.00, 0.80)	0.00 (0.00, 3.23)	0.52 (0.00, 4.11)	1.22 (0.00, 2.78)	<0.001
IABP	6.67 (0.00, 14.50)	12.41 (7.69, 21.36)	11.90 (8.00, 19.35)	14.44 (9.52, 19.15)	<0.001
PCPS	0.00 (0.00, 1.67)	1.00 (0.00, 2.90)	1.10 (0.00, 2.47)	1.30 (0.00, 2.27)	<0.001
Fibrinolysis	0.00 (0.00, 0.00)	0.00 (0.00, 0.66)	0.00 (0.00, 0.77)	0.00 (0.00, 0.78)	0.056
Cardiac Rehabilitation	32.58 (11.75, 69.45)	45.00 (11.02, 80.00)	60.56 (15.33, 83.12)	65.91 (13.13, 87.18)	<0.001

Aspirin (admission)	77.95 (69.74, 84.57)	86.21 (81.82, 89.47)	88.89 (85.37, 91.84)	92.31 (89.94, 94.17)	<0.001
β-blocker(admission)	10.34 (5.04, 20.00)	18.54 (10.08, 29.63)	29.01 (18.67, 40.24)	45.68 (32.56, 58.14)	<0.001
Aspirin (discharge)	71.08 (62.87, 76.23)	79.17 (75.00, 83.33)	82.44 (78.57, 86.21)	85.90 (82.26, 88.89)	<0.001
β-blocker (discharge)	27.72 (16.52, 40.56)	44.22 (34.48, 55.24)	58.33 (50.00, 64.56)	68.99 (61.54, 75.13)	<0.001
ACE-I/ARB (discharge)	39.23 (27.27, 49.83)	58.21 (50.62, 64.29)	66.13 (59.09, 71.62)	74.15 (66.67, 79.25)	<0.001
Statin (discharge)	50.00 (39.24, 60.62)	65.31 (58.02, 71.00)	73.23 (67.95, 77.78)	79.08 (74.77, 82.72)	<0.001

Values presented are given as number (percentage) unless stated.

SD = standard deviation, IQR = interquartile range, CAG = coronary angiography, PCI = percutaneous coronary intervention, CABG = coronary arterial bypass grafting, IABP = intra-aortic balloon pump, PCPS = Percutaneous Cardio Pulmonary Support.

Figure S1. Study Flow Chart.



JROAD, Japanese Registry of All Cardiac and Vascular Diseases; DPC, Diagnostic Procedure Combination.