

**Comparison of Readmission Rates following Acute Myocardial Infarction in 3 Patient Age  
Groups (18-44, 45-64, and ≥65 years) in the USA**

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**Online Appendix**

eTable 1: Participating states in the National Readmission Database (NRD).

**Participating states**

Arkansas	Nevada	Wisconsin
California	New Mexico	
Florida	New York	
Georgia	South Carolina	
Hawaii	South Dakota	
Iowa	Tennessee	
Louisiana	Utah	
Massachusetts	Vermont	
Missouri	Virginia	
Nebraska	Washington	

eTable 2: Participating states in the National Readmission Database (NRD).

<b>Variable</b>	<b>Claim codes</b>
Acute myocardial infarction	410.x0 or 410.x1
Heart failure	CCS code 108
Chronic atherosclerosis	CCS code 101
Cardiac arrhythmia	CCS code 106
Valvular Disease	CCS code 96
Stroke/transient ischemic attack	CCS codes 109, 112
Cerebrovascular Disease	CCS codes 110, 111, 113
Paralysis	CCS code 82
Peripheral Vascular Disease	CCS codes 114-117
Diabetes Mellitus	CCS codes 49-50
Acute Kidney Injury	CCS code 157
End State Renal Disease/Hemodialysis	CCS codes 58, 91, ICD-9 code 585.6
Chronic Kidney Disease	CCS code 158
Chronic obstructive pulmonary disease	CCS code 127
Pneumonia	CCS code 122
Asthma	CCS code 128
Fluid/Electrolyte Disorder	CCS code
Sepsis	CCS code 2
Solid Malignancy	CCS codes 11-38, 40, 41, 43
Leukemia/Metastatic Malignancy	CCS codes 39, 42
Anemia	CCS codes 59-61
Chronic Skin Ulcer	CCS code 199
Delirium/Dementia	CCS code 653
Malnutrition	CCS code 52
Anterior ST-elevation myocardial infarction	ICD-9 codes 410.00, 410.01, 410.10, 410.11
Other ST-elevation myocardial infarction	ICD-9 codes 410.20, 410.21, 410.3, 410.30, 410.31, 410.40, 410.41, 410.50, 410.51, 410.60, 410.61, 410.80, 410.81
Prior myocardial infarction	ICD-9 code 412
Prior percutaneous coronary intervention	ICD-9 code V45.82
Prior coronary artery bypass grafting	ICD-9 code V45.81

eTable 3: Gender differences in characteristics of patients discharged alive after an acute myocardial infarction, overall- and by age-groups. Values are percentages, unless otherwise specified.

Characteristics	Ages (years)											
	Overall			18-44			45-64			≥65		
	Men	Women	P-value	Men	Women	P-value	Men	Women	P-value	Men	Women	P-value
Number of events (weighted numbers ± SD)	296944 (7511)	181303 (4334)	N/A	19150 (548)	7367 (253)	N/A	130944 (3427)	52760 (1448)	N/A	146850 (3854)	121177 (2885)	N/A
Patient characteristics												
Income quartiles <sup>§</sup>			<.0001			<.0001			<.0001			<.0001
Q1 (lowest)	27.8 (0.9)	30.6 (0.9)		30.9 (1.1)	39.6 (1.4)		28.5 (1.0)	24.4 (1.1)		26.9 (1.0)	28.5 (0.9)	
Q2	28.2 (0.6)	28.6 (0.6)		28.3 (0.8)	28.5 (1.0)		28.2 (0.7)	29.3 (0.7)		28.2 (0.7)	28.3 (0.7)	
Q3	24.5 (0.6)	23.2 (0.6)		24.2 (0.8)	19.0 (0.9)		24.3 (0.6)	22.2 (0.7)		24.6 (0.6)	23.9 (0.6)	
Q4 (highest)	19.5 (0.9)	17.6 (0.8)		16.6 (0.9)	13.0 (0.9)		19.0 (0.9)	14.1 (0.8)		20.3 (0.9)	19.4 (0.8)	
Secondary diagnoses/comorbidities												
Heart failure	26.9 (0.3)	35.3 (0.3)	<.0001	12.5 (0.5)	15.1 (0.8)	.0005	18.2 (0.4)	22.0 (0.4)	<.0001	36.5 (0.4)	42.3 (0.4)	<.0001
Diabetes Mellitus	39.0 (0.3)	42.1 (0.3)	<.0001	27.2 (0.6)	36.6 (1.0)	<.0001	36.7 (0.3)	45.1 (0.5)	<.0001	42.6 (0.3)	41.1 (0.3)	<.0001
Coronary Artery Disease	88.3 (0.3)	78.4 (0.4)	<.0001	82.6 (0.5)	76.1 (0.9)	<.0001	89.2 (0.3)	82.3 (0.4)	<.0001	88.2 (0.3)	76.9 (0.4)	<.0001
Valvular heart disease	11.7 (0.2)	17.6 (0.3)	<.0001	3.9 (0.3)	6.7 (0.5)	<.0001	6.6 (0.2)	9.5 (0.3)	<.0001	17.4 (0.3)	21.7 (0.4)	<.0001
Peripheral Artery Disease	22.5 (0.3)	26.5 (0.3)	<.0001	9.2 (0.4)	13.8 (0.7)	<.0001	16.7 (0.3)	21.5 (0.4)	<.0001	29.5 (0.4)	29.5 (0.4)	.9693
Cerebrovascular Disease	4.6 (0.1)	5.9 (0.1)	<.0001	0.7 (0.1)	1.2 (0.2)	.0130	2.7 (0.1)	4.0 (0.2)	<.0001	6.7 (0.2)	7.1 (0.1)	.0469
Acute stroke/transient ischemic attack	1.2 (0.04)	1.8 (0.05)	<.0001	0.7 (0.1)	0.8 (0.2)	.7249	0.9 (0.04)	1.3 (0.1)	<.0001	1.5 (0.1)	2.1 (0.1)	<.0001
Cardiac arrhythmia	30.4 (0.3)	30.3 (0.3)	.6684	17.7 (0.6)	14.8 (0.7)	.0012	23.2 (0.4)	18.6 (0.4)	<.0001	38.5 (0.3)	36.3 (0.3)	<.0001
Liver disease	3.6 (0.1)	3.6 (0.1)	.8843	4.0 (0.2)	3.8 (0.4)	.7230	3.8 (0.1)	3.8 (0.2)	.9979	3.4 (0.1)	3.5 (0.1)	.4485
Asthma	3.5 (0.1)	7.3 (0.1)	<.0001	3.9 (0.3)	10.0 (0.6)	<.0001	3.6 (0.1)	8.9 (0.3)	<.0001	3.4 (0.1)	6.4 (0.1)	<.0001
Chronic obstructive pulmonary disease	15.1 (0.2)	17.6 (0.2)	<.0001	3.3 (0.2)	5.2 (0.4)	<.0001	11.6 (0.3)	16.0 (0.4)	<.0001	19.7 (0.3)	19.0 (0.3)	.0179
Pneumonia	5.9 (0.1)	7.4 (0.1)	<.0001	2.0 (0.2)	3.0 (0.3)	.0032	3.5 (1.0)	4.7 (0.2)	<.0001	8.6 (0.2)	8.8 (0.2)	.2035
Sepsis	1.5 (0.05)	1.8 (0.06)	<.0001	0.8 (0.1)	1.0 (0.2)	.2987	1.1 (0.1)	1.4 (0.1)	.0024	2.0 (0.1)	2.0 (0.1)	.6694
Solid Malignancy	10.0 (0.2)	10.9 (0.2)	<.0001	1.6 (0.2)	2.7 (0.4)	.0008	4.4 (0.1)	6.6 (0.2)	<.0001	16.0 (0.3)	13.3 (0.2)	<.0001
Leukemia/Metastatic Malignancy	1.2 (0.04)	1.2 (0.04)	.1927	0.3 (0.1)	0.2 (0.1)	.5645	0.6 (0.04)	0.8 (0.1)	.0050	1.9 (0.1)	1.4 (0.1)	<.0001
Chronic Skin Ulcer	1.6 (0.05)	2.3 (0.1)	<.0001	0.5 (0.1)	0.9 (0.2)	.0370	1.1 (0.1)	1.3 (0.1)	.0230	2.3 (0.1)	2.8 (0.1)	<.0001
Delirium & Dementia	4.6 (0.1)	9.9 (0.2)	<.0001	0.2 (0.1)	0.1 (0.1)	.3733	0.6 (0.04)	0.7 (0.1)	.0662	8.7 (0.2)	14.5 (0.2)	<.0001

Anemia	19.0 (0.3)	26.5 (0.4)	<.0001	7.7 (0.4)	18.9 (0.9)	<.0001	13.1 (0.3)	20.0 (0.5)	<.0001	25.7 (0.4)	29.8 (0.4)	<.0001
Malnutrition	3.4 (0.1)	5.5 (0.2)	<.0001	1.2 (0.2)	2.2 (0.3)	.0004	2.0 (0.1)	3.5 (0.2)	<.0001	4.9 (0.2)	6.7 (0.2)	<.0001
Paralysis	0.5 (0.02)	0.6 (0.03)	.0664	0.6 (0.1)	0.2 (0.1)	.0165	0.5 (0.03)	0.5 (0.1)	.6464	0.6 (0.03)	0.7 (0.04)	.0679
Acute Kidney Injury	14.1 (0.2)	15.0 (0.2)	<.0001	6.8 (0.4)	5.4 (0.4)	.0160	8.9 (0.2)	9.5 (0.3)	.0139	19.6 (0.3)	18.0 (0.3)	<.0001
End Stage Renal Disease/Hemodialysis	3.5 (0.1)	4.2 (0.1)	<.0001	2.1 (0.2)	3.6 (0.4)	.0001	3.0 (0.1)	5.2 (0.2)	<.0001	4.2 (0.1)	3.8 (0.1)	.0026
Chronic kidney disease	16.5 (0.2)	18.2 (0.3)	<.0001	4.5 (0.3)	4.7 (0.4)	.8062	7.9 (0.2)	8.5 (0.3)	.0135	25.8 (0.3)	23.2 (0.3)	<.0001
Fluid/electrolyte disorder	18.4 (0.3)	25.8 (0.3)	<.0001	13.2 (0.5)	19.9 (0.8)	<.0001	15.8 (0.3)	21.3 (0.4)	<.0001	21.4 (0.3)	28.1 (0.4)	<.0001
<b>Past History</b>												
Prior myocardial infarction	13.7 (0.2)	11.2 (0.2)	<.0001	9.7 (0.4)	8.0 (0.5)	.0092	12.2 (0.2)	10.4 (0.3)	<.0001	15.5 (0.3)	11.7 (0.2)	<.0001
Prior percutaneous coronary intervention	17.3 (0.3)	13.6 (0.2)	<.0001	11.6 (0.5)	9.2 (0.6)	.0006	16.5 (0.3)	13.9 (0.3)	<.0001	18.8 (0.3)	13.7 (0.3)	<.0001
Prior coronary artery bypass grafting	9.4 (0.2)	6.9 (0.1)	<.0001	2.1 (0.2)	1.9 (0.3)	.7173	5.2 (0.1)	5.0 (0.2)	.1884	14.1 (0.2)	8.1 (0.2)	<.0001
<b>AMI characteristics/complications</b>												
Anterior ST-elevation myocardial infarction	11.5 (0.2)	7.6 (0.1)	<.0001	17.5 (0.5)	12.4 (0.6)	<.0001	14.3 (0.2)	8.9 (0.2)	<.0001	8.2 (0.2)	6.8 (0.1)	<.0001
Non-Anterior AMI	88.5 (0.2)	92.4 (0.1)	<.0001	82.5 (0.5)	87.6 (0.6)	<.0001	85.7 (0.2)	91.1 (0.2)	<.0001	91.8 (0.2)	93.2 (0.1)	<.0001
Cardiogenic shock	4.0 (0.1)	3.4 (0.1)	<.0001	2.7 (0.2)	2.6 (0.3)	.7923	4.0 (0.1)	3.7 (0.2)	.0341	4.3 (0.1)	3.4 (0.1)	<.0001
Cardiac arrest	3.9 (0.1)	2.4 (0.1)	<.0001	4.6 (0.3)	3.9 (0.4)	.1288	4.6 (0.1)	3.3 (0.1)	<.0001	3.2 (0.1)	2.0 (0.1)	<.0001
<b>Procedures</b>												
Percutaneous coronary intervention	58.0 (0.4)	42.8 (0.5)	<.0001	70.6 (0.7)	55.4 (1.2)	<.0001	67.9 (0.4)	55.4 (0.5)	<.0001	47.6 (0.5)	36.5 (0.5)	<.0001
Coronary artery bypass grafting	10.9 (0.3)	6.8 (0.2)	<.0001	6.2 (0.3)	5.8 (0.5)	.5150	11.6 (0.3)	8.0 (0.3)	<.0001	10.9 (0.3)	6.3 (0.2)	<.0001
Mechanical ventilation	6.0 (0.1)	6.4 (0.1)	.0004	3.5 (0.2)	3.5 (0.4)	.9412	5.4 (0.2)	5.8 (0.2)	.0367	6.9 (0.2)	6.9 (0.2)	.9770
<b>Administrative/financial details</b>												
<u>Payment source</u>			<.0001			<.0001			<.0001			<.0001
Medicare	51.1 (0.4)	69.1 (0.4)		7.5 (0.4)	11.7 (0.7)		15.6 (0.3)	21.8 (0.4)		88.5 (0.3)	93.1 (0.3)	
Medicaid	6.1 (0.2)	6.5 (0.2)		14.7 (0.6)	26.6 (1.0)		10.6 (0.4)	16.0 (0.5)		1.0 (0.1)	1.2 (0.1)	
Private insurance	29.9 (0.4)	17.3 (0.3)		47.2 (0.7)	37.5 (1.2)		51.7 (0.6)	43.0 (0.6)		8.2 (0.3)	4.9 (0.2)	
Others	12.8 (0.3)	7.1 (0.2)		30.6 (0.7)	24.2 (1.1)		22.1 (0.4)	19.1 (0.4)		2.3 (0.2)	0.9 (0.1)	
<u>Any insurance</u>	87.0 (0.3)	92.8 (0.2)	<.0001	69.3 (0.7)	75.6 (1.1)	<.0001	77.8 (0.4)	80.7 (0.4)	<.0001	97.6 (0.2)	99.1 (0.1)	<.0001

<u>30-day Readmission</u>												
All-cause, %	13.1 (0.2)	16.8 (0.2)	<.0001	8.9 (0.4)	12.0 (0.6)	<.0001	10.2 (0.2)	13.9 (0.3)	<.0001	16.4 (0.2)	18.4 (0.2)	<.0001
Cardiac, %	7.7 (0.1)	9.3 (0.1)	<.0001	6.0 (0.3)	8.0 (0.5)	.0008	6.4 (0.1)	7.8 (0.2)	<.0001	9.0 (0.1)	10.0 (0.2)	<.0001
Unplanned, %	10.0 (0.1)	14.1 (0.2)	<.0001	6.5 (0.3)	9.5 (0.6)	<.0001	7.3 (0.2)	11.1 (0.3)	<.0001	12.9 (0.2)	15.7 (0.2)	<.0001

eTable 4: Income-group differences in characteristics of patients discharged alive after an acute myocardial infarction, overall- and by age-group. Presented for lowest vs. highest income quartiles. P-value corresponds to trend across quartiles. Values are percentages, unless otherwise specified.

Characteristics	Ages (years)											
	Overall			18-44 years			45-64 years			≥65		
	Lowest	Highest	p-value	Lowest	Highest	p-value	Lowest	Highest	p-value	Lowest	Highest	p-value
Number of events (weighted numbers ± SD)	135963 (5683)	88297 (4296)	N/A	8691 (398.1)	4058 (229.4)	N/A	54477 (2383)	31778 (1600)	N/A	72795 (3090)	52461 (2596)	N/A
Women	40.3 (0.3)	35.6 (0.4)	<.0001	33.0 (0.8)	23.1 (1.1)	<.0001	32.8 (0.4)	23.0 (0.4)	<.0001	46.7 (0.5)	44.2 (0.5)	<.0001
<b>Secondary diagnoses/comorbidities</b>												
Heart failure	31.7 (0.5)	29.5 (0.5)	<.0001	16.3 (0.9)	9.3 (0.8)	<.0001	22.5 (0.5)	15.4 (0.5)	<.0001	40.4 (0.6)	39.6 (0.5)	.0017
Diabetes Mellitus	42.9 (0.3)	37.0 (0.4)	<.0001	31.6 (0.9)	25.3 (1.1)	.0006	42.8 (0.4)	35.0 (0.6)	<.0001	44.4 (0.4)	39.1 (0.5)	<.0001
Coronary Artery Disease	84.7 (0.4)	84.3 (0.5)	.8185	80.6 (0.8)	79.2 (1.1)	.0690	86.8 (0.4)	87.1 (0.5)	.2167	83.6 (0.5)	82.9 (0.6)	.5242
Valvular heart disease	13.5 (0.4)	15.2 (0.4)	.0004	5.3 (0.5)	3.7 (0.5)	.0344	8.0 (0.3)	6.9 (0.3)	.0056	18.5 (0.5)	21.2 (0.6)	<.0001
Peripheral Artery Disease	24.7 (0.3)	23.5 (0.5)	.0500	11.0 (0.6)	10.4 (0.8)	.7757	19.9 (0.4)	14.8 (0.4)	<.0001	30.0 (0.4)	29.9 (0.6)	.2229
Cerebrovascular Disease	5.4 (0.1)	4.9 (0.2)	.0063	1.0 (0.2)	0.5 (0.2)	.1202	3.8 (0.2)	2.1 (0.1)	<.0001	7.2 (0.2)	6.8 (0.2)	.2432
Acute stroke/transient ischemic attack	1.5 (0.1)	1.4 (0.1)	.0532	0.7 (0.1)	0.5 (0.2)	.4584	1.2 (0.1)	0.9 (0.1)	.0018	1.9 (0.1)	1.8 (0.1)	.1275
Cardiac arrhythmia	28.8 (0.4)	32.7 (0.5)	<.0001	15.7 (0.8)	19.1 (1.1)	.0361	21.4 (0.4)	22.4 (0.5)	.3311	35.9 (0.5)	40.0 (0.6)	<.0001
Liver disease	3.8 (0.2)	3.7 (0.1)	.1186	3.7 (0.3)	4.3 (0.5)	.7855	4.0 (0.2)	3.6 (0.2)	.2503	3.6 (0.2)	3.6 (0.2)	.1172
Asthma	5.1 (0.1)	5.2 (0.2)	.0090	6.5 (0.4)	4.8 (0.5)	.0183	5.5 (0.2)	5.0 (0.2)	.0050	4.6 (0.2)	5.4 (0.2)	.0006
Chronic obstructive pulmonary disease	19.0 (0.3)	11.7 (0.2)	<.0001	5.0 (0.4)	1.9 (0.4)	<.0001	16.8 (0.4)	6.7 (0.2)	<.0001	22.4 (0.4)	15.4 (0.3)	<.0001
Pneumonia	6.9 (0.2)	6.1 (0.2)	.0006	2.6 (0.3)	2.0 (0.3)	.5035	4.7 (0.2)	2.8 (0.1)	<.0001	9.1 (0.3)	8.4 (0.2)	.1143
Sepsis	1.7 (0.1)	1.7 (0.1)	.0543	1.1 (0.2)	0.8 (0.2)	.1001	1.3 (0.1)	1.2 (0.1)	.3648	2.1 (0.1)	2.1 (0.1)	.1827
Solid Malignancy	9.5 (0.2)	12.0 (0.3)	<.0001	1.6 (0.2)	2.1 (0.4)	.6344	5.1 (0.2)	5.4 (0.2)	.2579	13.7 (0.3)	16.7 (0.4)	<.0001
Leukemia/Metastatic Malignancy	1.1 (0.1)	1.4 (0.1)	.0002	0.2 (0.1)	0.5 (0.2)	.0803	0.7 (0.1)	0.6 (0.1)	.3723	1.4 (0.1)	2.0 (0.1)	.0001
Chronic Skin Ulcer	2.0 (0.1)	1.9 (0.1)	.2743	0.6 (0.1)	0.4 (0.1)	.3253	1.4 (0.1)	1.0 (0.1)	.0081	2.6 (0.1)	2.6 (0.1)	.1917
Delirium & Dementia	6.6 (0.2)	7.2 (0.2)	.0049	0.3 (0.1)	0.1 (0.1)	.3732	0.7 (0.1)	0.5 (0.1)	.0410	11.8 (0.3)	11.8 (0.3)	.0232
Anemia	22.9 (0.4)	21.0 (0.5)	.0004	12.3 (0.9)	8.2 (0.8)	.0025	16.8 (0.5)	13.0 (0.5)	<.0001	28.8 (0.5)	26.8 (0.6)	.0014
Malnutrition	4.5 (0.2)	3.9 (0.2)	.0410	1.5 (0.2)	1.3 (0.3)	.9600	2.8 (0.2)	2.2 (0.2)	.0009	6.1 (0.2)	5.2 (0.2)	.0179
Paralysis	0.6 (0.03)	0.6 (0.1)	.3909	0.4 (0.1)	N/A	N/A	0.5 (0.05)	0.4 (0.1)	.7034	0.6 (0.1)	0.7 (0.1)	.0480
Acute Kidney Injury	15.3 (0.4)	14.3 (0.3)	.0002	7.4 (0.5)	4.1 (0.5)	.0004	10.7 (0.4)	7.5 (0.3)	<.0001	19.6 (0.5)	19.1 (0.4)	.0239
End Stage Renal Disease/Hemodialysis	4.5 (0.2)	3.5 (0.1)	<.0001	2.7 (0.3)	2.7 (0.4)	.6475	4.4 (0.2)	3.0 (0.2)	<.0001	4.7 (0.2)	3.8 (0.2)	<.0001

Chronic kidney disease	17.5 (0.3)	16.9 (0.3)	.5534	5.9 (0.6)	3.0 (0.4)	<.0001	9.6 (0.3)	6.3 (0.3)	<.0001	24.7 (0.5)	24.4 (0.4)	.8793
Fluid/electrolyte disorder	22.2 (0.4)	20.7 (0.4)	.0011	16.3 (0.9)	14.0 (1.0)	.1396	19.0 (0.5)	15.4 (0.5)	<.0001	25.3 (0.5)	24.5 (0.5)	.0746
<b>Past History</b>												
Prior myocardial infarction	12.9 (0.3)	13.2 (0.3)	.1093	10.5 (0.7)	7.1 (0.7)	.0063	12.4 (0.3)	10.7 (0.3)	.0008	13.6 (0.4)	15.2 (0.4)	<.0001
Prior percutaneous coronary intervention	16.3 (0.4)	15.8 (0.3)	.1114	12.8 (0.7)	8.4 (0.6)	<.0001	17.0 (0.5)	14.1 (0.4)	<.0001	16.2 (0.4)	17.4 (0.4)	.0305
Prior coronary artery bypass grafting	8.5 (0.2)	8.3 (0.2)	.7910	2.2 (0.3)	1.1 (0.2)	.0447	5.9 (0.2)	4.1 (0.2)	<.0001	11.3 (0.3)	11.4 (0.3)	.9462
<b>AMI characteristics/complications</b>												
Anterior ST-elevation myocardial infarction	9.2 (0.2)	10.9 (0.3)	<.0001	15.2 (0.7)	16.9 (1.0)	.3141	11.2 (0.3)	14.8 (0.4)	<.0001	7.0 (0.2)	8.1 (0.2)	<.0001
Non-Anterior AMI	90.8 (0.2)	89.1 (0.3)	<.0001	84.8 (0.7)	83.1 (1.0)	.3141	88.8 (0.3)	85.2 (0.4)	<.0001	93.1 (0.2)	91.9 (0.2)	<.0001
AntST-elevation myocardial infarction_dx1	9.0 (0.2)	10.7 (0.3)	<.0001	15.0 (0.7)	16.6 (0.9)	.3378	11.0 (0.3)	14.5 (0.4)	<.0001	6.8 (0.2)	7.9 (0.2)	<.0001
other_locationAMI_dx1	14.7 (0.3)	15.9 (0.4)	<.0001	20.0 (0.9)	24.4 (1.1)	<.0001	19.1 (0.4)	21.8 (0.5)	<.0001	10.7 (0.3)	11.7 (0.3)	.0035
Cardiogenic shock	3.7 (0.1)	4.0 (0.2)	.4410	2.8 (0.3)	2.5 (0.4)	.9047	3.8 (0.2)	3.9 (0.2)	.7533	3.7 (0.1)	4.1 (0.2)	.1814
Cardiac arrest	3.2 (0.1)	3.6 (0.1)	.0054	4.8 (0.4)	4.4 (0.5)	.6534	3.9 (0.1)	4.8 (0.2)	.0019	2.5 (0.1)	2.8 (0.1)	.0760
<b>Procedures</b>												
Percutaneous coronary intervention	50.7 (0.7)	52.4 (0.7)	.0005	63.2 (1.1)	68.1 (1.3)	<.0001	60.8 (0.7)	67.8 (0.7)	<.0001	41.5 (0.8)	41.9 (0.8)	.0590
Coronary artery bypass grafting	9.3 (0.3)	9.1 (0.5)	.7431	5.9 (0.5)	5.0 (0.6)	.0528	10.5 (0.4)	10.1 (0.5)	.6584	8.8 (0.3)	8.7 (0.5)	.9867
Mechanical ventilation	5.9 (0.2)	6.8 (0.3)	.0012	4.2 (0.4)	3.2 (0.5)	.1151	5.4 (0.2)	5.6 (0.3)	.8432	6.5 (0.2)	7.9 (0.3)	<.0001
<b>Administrative/ financial details</b>												
<u>Payment source</u>			<.0001			<.0001			<.0001			<.0001
Medicare	59.2 (0.5)	56.7 (0.6)		10.6 (0.6)	4.9 (0.6)		23.8 (0.4)	9.6 (0.3)		91.4 (0.4)	89.2 (0.4)	
Medicaid	8.9 (0.3)	3.8 (0.2)		23.3 (0.9)	10.6 (0.9)		16.9 (0.6)	7.7 (0.4)		1.3 (0.1)	1.0 (0.1)	
Private insurance	18.4 (0.4)	32.7 (0.5)		29.6 (0.9)	66.7 (1.4)		34.1 (0.6)	67.9 (0.6)		5.3 (0.4)	8.7 (0.3)	
Others	13.5 (0.4)	6.8 (0.2)		36.5 (1.1)	17.8 (1.1)		25.1 (0.6)	14.9 (0.5)		2.0 (0.2)	1.1 (0.1)	
<u>Any insurance</u>	86.4 (0.4)	93.1 (0.2)	<.0001	63.3 (1.1)	82.2 (1.1)	<.0001	74.5 (0.6)	85.0 (0.5)	<.0001	97.9 (0.2)	98.9 (0.1)	<.0001
<b>30-day Readmission</b>												



All-cause, %	15.6 (0.2)	13.7 (0.3)	<.0001	11.3 (0.6)	8.0 (0.8)	.0028	12.9 (0.3)	9.1 (0.3)	<.0001	18.1 (0.3)	17.0 (0.3)	.0023
Cardiac, %	8.8 (0.2)	7.9 (0.2)	<.0001	7.5 (0.6)	4.9 (0.6)	.0149	7.7 (0.2)	5.9 (0.2)	<.0001	9.8 (0.2)	9.4 (0.2)	.1248
Unplanned, %	12.6 (0.2)	10.8 (0.2)	<.0001	8.8 (0.5)	6.0 (0.7)	.0013	10.1 (0.3)	6.4 (0.2)	<.0001	14.9 (0.3)	13.8 (0.3)	.0055

**eTable 5: Revascularization-group differences in characteristics of patients discharged alive after an acute myocardial infarction, overall- and by age-group. Presented for lowest vs. highest income quartiles. P-value corresponds to trend across quartiles. Values are percentages, unless otherwise specified.**

Characteristics	Ages (years)											
	Overall			18-44			45-64			≥65		
	Revascularization			Revascularization			Revascularization			Revascularization		
	Yes	No	p-value	Yes	No	p-value	Yes	No	p-value	Yes	No	p-value
Number of events (weighted numbers ± SD)	290178 (8446)	188069 (4036)		18974 (586)	7543 (260)		135333 (3874)	48371 (1191)		135872 (4276)	132155 (2877)	
<b>Income quartiles</b>			0.0021			<.0001			<.0001			0.1146
Q1 (lowest)	28.2 (1.0)	30.0 (0.9)		31.8 (1.1)	37.2 (1.4)		28.8 (1.0)	34.1 (1.0)		27.1 (1.1)	28.1 (0.9)	
Q2	28.6 (0.7)	28.0 (0.6)		28.9 (0.9)	26.7 (1.1)		28.5 (0.7)	28.7 (0.7)		28.7 (0.7)	27.7 (0.6)	
Q3	24.4 (0.6)	23.3 (0.6)		23.6 (0.8)	20.7 (0.9)		24.4 (0.6)	21.7 (0.6)		24.6 (0.7)	24.0 (0.6)	
Q4 (highest)	18.8 (0.9)	18.7 (0.8)		15.7 (0.9)	15.1 (1.0)		18.4 (0.9)	15.5 (0.7)		19.6 (1.0)	20.1 (0.8)	
Women	30.6 (0.2)	49.2 (0.2)	<.0001	23.5 (0.6)	38.5 (1.0)	<.0001	24.4 (0.2)	40.8 (0.4)	<.0001	37.7 (0.3)	52.9 (0.3)	<.0001
<b>Secondary diagnoses/comorbidities</b>												
Heart failure	21.1 (0.3)	44.0 (0.3)	<.0001	10.7 (0.5)	19.6 (1.0)	<.0001	15.2 (0.3)	30.7 (0.5)	<.0001	28.4 (0.4)	50.2 (0.3)	<.0001
Diabetes Mellitus	39.1 (0.3)	41.8 (0.3)	<.0001	30.7 (0.6)	27.7 (0.8)	0.0036	37.6 (0.3)	43.4 (0.5)	<.0001	41.7 (0.4)	42.1 (0.3)	0.3681
Coronary Artery Disease	92.7 (0.2)	72.0 (0.3)	<.0001	90.2 (0.5)	57.3 (1.0)	<.0001	92.2 (0.3)	73.4 (0.5)	<.0001	93.5 (0.2)	72.3 (0.4)	<.0001
Valvular heart disease	10.4 (0.3)	19.4 (0.3)	<.0001	3.7 (0.3)	7.1 (0.6)	<.0001	6.4 (0.2)	10.4 (0.3)	<.0001	15.3 (0.4)	23.5 (0.4)	<.0001
Peripheral Artery Disease	21.0 (0.3)	28.7 (0.3)	<.0001	10.0 (0.4)	11.7 (0.6)	0.0182	16.4 (0.3)	22.6 (0.4)	<.0001	27.1 (0.4)	32.0 (0.4)	<.0001
Cerebrovascular Disease	4.0 (0.1)	6.7 (0.1)	<.0001	0.7 (0.1)	1.3 (0.2)	0.0044	2.6 (0.1)	4.2 (0.2)	<.0001	5.9 (0.2)	7.9 (0.2)	<.0001
Acute stroke/transient ischemic attack	1.1 (0.04)	1.9 (0.1)	<.0001	0.7 (0.1)	0.9 (0.2)	0.2655	0.8 (0.04)	1.6 (0.1)	<.0001	1.5 (0.1)	2.1 (0.1)	<.0001
Cardiac arrhythmia	27.7 (0.4)	34.5 (0.3)	<.0001	17.0 (0.5)	16.7 (0.8)	0.8237	21.7 (0.4)	22.4 (0.4)	0.0729	35.3 (0.4)	39.9 (0.3)	<.0001
Liver disease	3.2 (0.1)	4.2 (0.1)	<.0001	3.5 (0.2)	5.2 (0.4)	0.0001	3.3 (0.1)	5.0 (0.2)	<.0001	3.0 (0.1)	3.8 (0.1)	<.0001
Asthma	4.6 (0.1)	5.5 (0.1)	<.0001	4.8 (0.3)	7.7 (0.5)	<.0001	4.5 (0.1)	6.6 (0.2)	<.0001	4.6 (0.1)	4.9 (0.1)	0.0457
Chronic obstructive pulmonary disease	13.2 (0.2)	20.4 (0.2)	<.0001	3.6 (0.2)	4.6 (0.4)	0.0131	11.2 (0.3)	17.7 (0.4)	<.0001	16.6 (0.3)	22.2 (0.3)	<.0001
Pneumonia	4.1 (0.1)	10.1 (0.2)	<.0001	1.7 (0.2)	3.7 (0.4)	<.0001	3.0 (0.1)	6.3 (0.2)	<.0001	5.6 (0.1)	11.8 (0.2)	<.0001
Sepsis	1.3 (0.05)	2.2 (0.1)	<.0001	0.7 (0.1)	1.2 (0.2)	0.0042	1.0 (0.1)	1.9 (0.1)	<.0001	1.6 (0.1)	2.3 (0.1)	<.0001
Solid Malignancy	8.5 (0.2)	13.1 (0.2)	<.0001	1.8 (0.2)	2.0 (0.3)	0.5661	4.5 (0.1)	6.6 (0.2)	<.0001	13.5 (0.3)	16.1 (0.3)	<.0001
Leukemia/Metastatic Malignancy	0.7 (0.03)	2.0 (0.1)	<.0001	0.2 (0.1)	0.4 (0.1)	0.1454	0.4 (0.03)	1.3 (0.1)	<.0001	1.0 (0.05)	2.3 (0.1)	<.0001
Chronic Skin Ulcer	1.0 (0.04)	3.3 (0.1)	<.0001	0.4 (0.1)	1.3 (0.2)	<.0001	0.8 (0.04)	2.3 (0.1)	<.0001	1.2 (0.1)	3.8 (0.1)	<.0001

Delirium & Dementia	2.5 (0.1)	13.1 (0.2)	<.0001	0.2 (0.1)	0.2 (0.1)	0.8209	0.4 (0.03)	1.3 (0.1)	<.0001	4.8 (0.1)	18.1 (0.2)	<.0001
Anemia	18.9 (0.4)	26.2 (0.3)	<.0001	9.6 (0.5)	13.7 (0.8)	<.0001	14.1 (0.4)	17.7 (0.4)	<.0001	25.0 (0.5)	30.1 (0.3)	<.0001
Malnutrition	2.9 (0.1)	6.2 (0.2)	<.0001	1.3 (0.2)	2.1 (0.3)	0.0041	1.9 (0.1)	3.7 (0.2)	<.0001	4.1 (0.2)	7.4 (0.2)	<.0001
Paralysis	0.5 (0.02)	0.7 (0.03)	<.0001	0.4 (0.1)	0.6 (0.2)	0.1139	0.4 (0.02)	0.7 (0.1)	<.0001	0.6 (0.03)	0.7 (0.04)	0.0064
Acute Kidney Injury	10.9 (0.2)	19.9 (0.3)	<.0001	5.0 (0.3)	10.0 (0.6)	<.0001	7.3 (0.2)	14.0 (0.3)	<.0001	15.2 (0.3)	22.7 (0.3)	<.0001
End Stage Renal Disease/Hemodialysis	2.8 (0.1)	5.2 (0.1)	<.0001	1.8 (0.2)	4.3 (0.4)	<.0001	2.5 (0.1)	6.7 (0.2)	<.0001	3.3 (0.1)	4.7 (0.1)	<.0001
Chronic kidney disease	11.6 (0.2)	25.8 (0.3)	<.0001	3.2 (0.2)	7.9 (0.6)	<.0001	6.0 (0.2)	13.8 (0.3)	<.0001	18.2 (0.3)	31.2 (0.3)	<.0001
Fluid/electrolyte disorder	17.9 (0.4)	26.4 (0.3)	<.0001	13.7 (0.5)	18.3 (0.8)	<.0001	15.6 (0.4)	22.3 (0.4)	<.0001	20.7 (0.4)	28.3 (0.3)	<.0001
<b>Past History</b>												
Prior myocardial infarction	11.4 (0.2)	14.8 (0.2)	<.0001	8.6 (0.4)	10.8 (0.6)	0.0003	10.6 (0.2)	14.6 (0.3)	<.0001	12.5 (0.3)	15.1 (0.3)	<.0001
Prior percutaneous coronary intervention	16.2 (0.3)	15.4 (0.2)	0.0010	12.3 (0.4)	10.1 (0.7)	0.1140	15.2 (0.3)	17.3 (0.4)	<.0001	17.9 (0.3)	15.0 (0.3)	<.0001
Prior coronary artery bypass grafting	5.1 (0.1)	13.7 (0.2)	<.0001	1.7 (0.2)	2.9 (0.3)	<.0001	3.4 (0.1)	10.0 (0.3)	<.0001	7.2 (0.2)	15.7 (0.2)	<.0001
<b>AMI characteristics/complications</b>												
Anterior ST-elevation myocardial infarction	14.5 (0.2)	3.2 (0.1)	<.0001	20.8 (0.5)	4.4 (0.5)	<.0001	16.0 (0.2)	3.7 (0.2)	<.0001	12.1 (0.2)	2.9 (0.1)	<.0001
Cardiogenic shock	5.0 (0.1)	2.0 (0.1)	<.0001	3.3 (0.2)	1.1 (0.2)	<.0001	4.5 (0.2)	2.4 (0.2)	<.0001	5.7 (0.2)	2.0 (0.1)	<.0001
Cardiac arrest	4.5 (0.1)	1.5 (0.1)	<.0001	5.4 (0.3)	1.8 (0.3)	<.0001	4.9 (0.1)	2.3 (0.1)	<.0001	4.0 (0.1)	1.3 (0.1)	<.0001
<b>Procedures</b>												
Mechanical ventilation	6.1 (0.1)	6.3 (0.2)	0.0970	3.7 (0.2)	3.0 (0.3)	0.1071	5.3 (0.1)	6.2 (0.2)	<.0001	7.2 (0.2)	6.6 (0.2)	0.0101
<b>Administrative/ financial details</b>												
<u>Payment source</u>			<.0001			<.0001			<.0001			<.0001
Medicare	48.8 (0.4)	72.0 (0.3)		7.4 (0.3)	11.9 (0.7)		14.4 (0.3)	25.7 (0.4)		88.7 (0.3)	92.4 (0.3)	
Medicaid	6.6 (0.2)	5.8 (0.2)		17.2 (0.6)	20.0 (0.9)		10.6 (0.4)	16.6 (0.5)		1.1 (0.1)	1.1 (0.1)	
Private insurance	31.5 (0.4)	15.2 (0.3)		46.4 (0.7)	39.8 (1.2)		52.7 (0.6)	39.2 (0.7)		8.4 (0.3)	4.9 (0.2)	
Others	13.1 (0.3)	7.0 (0.2)		29.0 (0.7)	28.2 (1.0)		22.2 (0.4)	18.5 (0.4)		1.8 (0.2)	1.6 (0.1)	
<b>30-day Readmission</b>												
All-cause, %	11.8 (0.1)	18.8 (0.2)	<.0001	8.9 (0.3)	11.8 (0.7)	<.0001	9.4 (0.2)	16.3 (0.3)	<.0001	14.5 (0.2)	20.2 (0.2)	<.0001
Cardiac, %	6.7 (0.1)	10.8 (0.1)	<.0001	6.0 (0.3)	7.9 (0.7)	0.0048	5.6 (0.1)	10.2 (0.3)	<.0001	7.8 (0.1)	11.2 (0.2)	<.0001
Unplanned, %	9.2 (0.1)	15.1 (0.2)	<.0001	6.5 (0.3)	9.2 (0.6)	<.0001	7.1 (0.2)	11.9 (0.3)	<.0001	11.7 (0.2)	16.6 (0.2)	<.0001
Cardiac Unplanned	4.8 (0.1)	7.7 (0.1)	<.0001	4.1 (0.3)	5.5 (0.5)	0.0078	3.9 (0.1)	6.4 (0.2)	<.0001	5.7 (0.1)	8.3 (0.1)	<.0001

**eTable 6:** Risk-factors for acute myocardial infarction 30-day Readmission in the 3 age groups – 18-44 years, 45-64 years, and ≥65 years.

Characteristics	Age group 18-44 years		Age group 45-64 years		Age group ≥65 years	
	Odds ratio	P-value	Odds ratio	P-value	Odds ratio	P-value
Age	1.00 (0.98 – 1.01)	0.84	1.00 (0.99 – 1.00)	0.44	1.01 (1.01 – 1.01)	<.0001
Women vs. Men	1.19 (1.00 – 1.41)	0.05	1.23 (1.17 – 1.31)	<.0001	1.11 (1.08 – 1.15)	<.0001
Income quartiles, Q1 vs. Q4	1.27 (1.00 – 1.63)	0.06	1.24 (1.14 – 1.34)	<.0001	1.06 (1.00 – 1.12)	0.06
Income quartiles, Q2 vs. Q4	1.13 (0.88 – 1.46)	0.33	1.14 (1.04-1.24)	0.003	1.04 (0.98 – 1.10)	0.21
Income quartiles, Q3 vs. Q4	1.03 (0.79 – 1.35)	0.81	1.11 (1.02 – 1.21)	0.01	0.99 (0.93 – 1.04)	0.58
Heart failure	1.66 (1.37 – 2.01)	<.0001	1.56 (1.47 – 1.65)	<.0001	1.42 (1.37 – 1.47)	<.0001
Chronic atherosclerosis	1.27 (1.06 – 1.53)	0.01	0.97 (0.90 – 1.04)	0.37	0.99 (0.95 – 1.04)	0.77
Cardiac arrhythmia	0.96 (0.78 – 1.18)	0.71	1.08 (1.02 – 1.15)	0.01	1.12 (1.08 – 1.16)	<.0001
Valvular Disease	1.20 (0.89 – 1.63)	0.24	1.19 (1.09 – 1.31)	0.0002	1.08 (1.03 – 1.12)	0.001
Stroke/transient ischemic attack	0.88 (0.41 – 1.86)	0.73	1.18 (0.93 – 1.50)	0.16	1.11 (0.99 – 1.26)	0.08
Cerebrovascular Disease	0.95 (0.47 – 1.94)	0.89	1.19 (1.06 – 1.32)	0.003	1.08 (1.02 – 1.16)	0.01
Paralysis	2.85 (1.30 – 6.25)	0.01	1.32 (0.95 – 1.82)	0.10	1.07 (0.86 – 1.33)	0.56
Peripheral Vascular Disease	1.19 (0.97 – 1.44)	0.09	1.26 (1.19 – 1.35)	<.0001	1.14 (1.10 – 1.18)	<.0001
Diabetes Mellitus	1.42 (1.21 – 1.66)	<.0001	1.29 (1.23 – 1.36)	<.0001	1.19 (1.15 – 1.24)	<.0001
Acute Kidney Injury	1.25 (0.98 – 1.60)	0.07	1.18 (1.09 – 1.28)	<.0001	1.11 (1.06 – 1.16)	<.0001
End State Renal Disease/Hemodialysis	2.31 (1.70 – 3.15)	<.0001	2.35 (2.14 – 2.58)	<.0001	1.94 (1.80 – 2.09)	<.0001
Chronic Kidney Disease	1.12 (0.81 – 1.55)	0.49	1.52 (1.41 – 1.64)	<.0001	1.17 (1.12 – 1.22)	<.0001
Chronic obstructive pulmonary disease	1.26 (0.94 – 1.70)	0.13	1.39 (1.30 – 1.48)	<.0001	1.29 (1.23 – 1.34)	<.0001
Pneumonia	1.40 (0.96 – 2.03)	0.09	1.11 (0.99 – 1.24)	0.07	1.07 (1.01 – 1.13)	0.02
Asthma	1.27 (0.98 – 1.65)	0.07	1.28 (1.16 – 1.42)	<.0001	1.10 (1.02 – 1.19)	0.01
Fluid/Electrolyte Disorder	1.15 (0.94 – 1.41)	0.17	1.12 (1.04 – 1.21)	0.004	1.12 (1.07 – 1.17)	<.0001

Sepsis	0.83 (0.44 – 1.57)	0.57	1.18 (0.98 – 1.41)	0.08	1.19 (1.2 – 1.32)	0.001
Solid Malignancy	1.15 (0.71 – 1.88)	0.57	1.17 (1.06 – 1.30)	0.003	1.07 (1.02 – 1.12)	0.01
Leukemia/Metastatic Malignancy	2.87 (1.19 – 6.91)	0.02	1.86 (1.41 – 2.46)	<.0001	1.46 (1.30 – 1.65)	<.0001
Anemia	1.40 (1.13 – 1.75)	0.003	1.21 (1.13 – 1.29)	<.0001	1.20 (1.16 – 1.25)	<.0001
Chronic Skin Ulcer	1.82 (0.94 – 3.57)	0.08	1.70 (1.43 – 2.02)	<.0001	1.38 (1.25 – 1.52)	<.0001
Delirium/Dementia	0.84 (0.25 – 2.81)	0.78	1.29 (0.99 – 1.68)	0.06	0.99 (0.93 – 1.04)	0.62
Malnutrition	1.51 (0.98 – 2.32)	0.06	1.10 (0.95 – 1.27)	0.22	1.04 (0.97 – 1.11)	0.25
Anterior ST-elevation myocardial infarction	1.01 (0.83 – 1.24)	0.92	1.07 (0.99 – 1.16)	0.08	1.14 (1.07 – 1.22)	0.0001
Other ST-elevation myocardial infarction	0.93 (0.77 – 1.12)	0.43	0.92 (0.86 – 0.99)	0.03	0.90 (0.84 – 0.96)	0.001
Prior myocardial infarction	0.94 (0.72 – 1.22)	0.62	1.06 (0.97 – 1.15)	0.22	1.03 (0.98 – 1.09)	0.19
Prior percutaneous coronary intervention	1.12 (0.89 – 1.41)	0.32	1.08 (1.01 – 1.15)	0.02	1.05 (1.01 – 1.10)	0.02
Prior coronary artery bypass grafting	1.61 (1.11 – 2.32)	0.01	1.11 (1.01 – 1.23)	0.03	1.10 (1.04 – 1.16)	0.001

Q1 is lowest and Q4 is highest income quartile.

**eTable 7:** Risk-adjusted odds ratio for gender and income within age-group. There was a significant age-gender and age-income interaction (P<.05).

<b>30-day readmission adjusted OR in AMI<sup>#</sup></b>	<b>Age groups</b>		
	<b>18-44 years</b>	<b>45-64 years</b>	<b>&gt;65 years</b>
<b>Sex</b>			
<b>Women vs. Men</b>	1.24 (1.06, 1.45)	1.26 (1.2, 1.33)	1.12 (1.08, 1.16)
<b>Income quartile*</b>			
<b>Q1 vs Q4</b>	1.32 (1.03, 1.68)	1.28 (1.18, 1.39)	1.05 (0.99, 1.12)
<b>Q2 vs Q4</b>	1.18 (0.92, 1.51)	1.16 (1.06, 1.26)	1.04 (0.98, 1.1)
<b>Q3 vs Q4</b>	1.07 (0.82, 1.4)	1.13 (1.04, 1.22)	0.99 (0.93, 1.04)

<sup>#</sup> Using risk-adjustment models used for AMI readmissions by CMS.

\*Q1: Lowest – Q4: highest income quartile.

**eTable 8:** Risk-adjusted odds ratio for gender and income within age-group after adjusting for insurance status.. There was a significant age-gender and age-income interaction (P<.05).

30-day readmission adjusted OR in AMI <sup>#</sup>	Age groups		
	18-44 years	45-64 years	>65 years
<b>Sex</b>			
<b>Women vs. Men</b>	1.22 (1.04, 1.43)	1.26 (1.19, 1.32)	1.11 (1.08, 1.16)
<b>Income quartile*</b>			
<b>Q1 vs Q4</b>	1.37 (1.07, 1.76)	1.31 (1.2, 1.42)	1.06 (1.00, 1.12)
<b>Q2 vs Q4</b>	1.20 (0.94, 1.54)	1.18 (1.08, 1.28)	1.04 (0.98, 1.10)
<b>Q3 vs Q4</b>	1.09 (0.84, 1.42)	1.14 (1.04, 1.24)	0.99 (0.93, 1.04)

<sup>#</sup> Using risk-adjustment models used for AMI readmissions by CMS.

\*Q1: Lowest – Q4: highest income quartile

**eTable 9:** Risk-adjusted odds ratio for gender and income within age-group after adjusting for revascularization status. There was a significant age-gender and age-income interaction (P<.05).

<b>30-day readmission adjusted OR in AMI<sup>#</sup></b>	<b>Age groups</b>		
	<b>18-44 years</b>	<b>45-64 years</b>	<b>&gt;65 years</b>
<b>Sex</b>			
<b>Women vs. men</b>	1.21 (1.03, 1.42)	1.24 (1.17, 1.3)	1.1 (1.06, 1.14)
<b>Income quartile*</b>			
<b>Q1 vs Q4</b>	1.31 (1.02, 1.67)	1.28 (1.18, 1.38)	1.05 (0.99, 1.11)
<b>Q2 vs Q4</b>	1.16 (0.91, 1.49)	1.16 (1.07, 1.26)	1.03 (0.98, 1.1)
<b>Q3 vs Q4</b>	1.07 (0.82, 1.39)	1.12 (1.03, 1.22)	0.98 (0.93, 1.04)

<sup>#</sup> Using risk-adjustment models used for AMI readmissions by CMS.

\*Q1: Lowest – Q4: highest income quartile