

# **SUPPLEMENTAL MATERIAL**

**Table S1. ICD-9 and ICD-10 Codes used for analysis.**

	ICD 9	ICD 10
In-Hospital Cardiac Arrest	9960, 9963	5A12012
Out Hospital Cardiac Arrest	4275	I46
Ventricular Tachycardia/Ventricular Fibrillation	4274.xx	I472, I490
Sepsis	0031 0202 0223 0362 0380 0381 03810 03811 03812 03819 0382 0383 03840 03841 03842 03843 03844 03849 0388 0389 0545 449 77181 7907 99591 99592 481 482 483 484 485 486 5950	A021 A207 A227 A267 A327 A392 A393 A394 A400 A401 A403 A408 A409 A4101 A4102 A411 A412 A413 A414 A4150 A4151 A4152 A4153 A4159 A4181 A4189 A419 A427 A5486 B007 B377I76 J13 J14 J15 J16 J17 J18 N390 R7881
Acute Myocardial Infarction	4100 41000 41001 41002 4101 41010 41011 41012 4102 41020 41021 41022 4103 41030 41031 41032 4104 41040 41041 41042 4105 41050 41051 41052 4106 41060 41061 41062 4107 41070 41071 41072 4108 41080 41081 41082 4109 41090 41091 41092	I21.x
Respiratory failure	5173 5185 51851 51852 51853 51881 51882 51883 51884 7991 V461 V4611 V4612 V4613 V4614 V462	J80 J95821 J95822 J9600 J9601 J9602 J9610 J9611 J9612 J9620 J9621J9622 J9690 J9691 J9692 R092
Heart failure	39891 4280 4281 42820 42821 42822 42823 42830 42831 42832 42833 42840 42841 42842 42843 4289	I0981 I110 I130 I132 I501 I5020 I5021 I5022 I5023 I5030 I5031 I5032 I5033 I5040 I5041 I5042 I5043 I50810 I50811 I50812 I50813 I50814 I5082 I5083 I5084 I5089 I509 I97130 I97131
Target temperature management	9981	6A4Z0ZZ
Coronary Angiography	3722	4A023N7 4A023N8
Percutaneous coronary intervention	3601 3602 3605 3606 3607 3609 0066	02703 02704 02713 02714 02723 02724 02733 02734
Extracorporeal membrane oxygenation	3965	5A1522F 5A1522G 5A1522H

**Table S2. Charlson Comorbidity Index code.**

Comorbidities	ICD-9-CM	ICD-10
Myocardial infarction	410.x, 412.x	I21.x, I22.x, I25.2
Congestive heart failure	428.x	I09.9, I11.0, I13.0, I13.2, I25.5, I42.0, I42.5-I42.9, I43.x, I50.x, P29.0
Peripheral vascular disease	443.9, 441.x, 785.4, V43.4 38.48	I70.x, I71.x, I73.1, I73.8, I73.9, I77.1, I79.0, I79.2, K55.1, K55.8, K55.9, Z95.8, Z95.9
Cerebrovascular disease	430.x-438.x	G45.x, G46.x, H34.0, I60.x-I69.x
Dementia	290.x	F00.x-F03.x, F05.1, G30.x, G31.1
Chronic pulmonary disease	490.x-505.x, 506.4	I27.8, I27.9, J40.x-J47.x, J60.x-J67.x, J68.4, J70.1, J70.3
Connective tissue disorder	710.0, 710.1, 710.4, 714.0-714.2, 714.81, 725.x	M05.x, M06.x, M31.5, M32.x-M34.x, M35.1, M35.3, M36.0
Peptic ulcer disease	531.x-534.x	K25.x-K28.x
liver disease	571.2, 571.4-571.6	B18.x, K70.0-K70.3, K70.9, K71.3-K71.5, K71.7, K73.x, K74.x K76.0, K76.2-K76.4, K76.8, K76.9, Z94.4
Diabetes without chronic complication	250.0-250.3, 250.7	E10.0, E10.I, E10.6, E10.8, E10.9, E11.0, E11.1, E11.6, E11.8, E11.9, E12.0, E12.1, E12.6, E12.8, E12.9, E13.0, E13.1, E13.6, E13.8, E13.9, E14.0, E14.1, E14.6, E14.8, E14.9
Diabetes with chronic complication	250.4-250.6	E10.2-E10.5, E10.7, E11.2-E11.5, E11.7, E12.2-E12.5, E12.7, E13.2-E13.5, E13.7, E14.2-E14.5, E14.7
Hemiplegia or paraplegia	344.1, 342.x	G04.1, G11.4, G80.1, G80.2, G81.x, G82.x, G83.0-G83.4, G83.9
Renal disease	582.x, 583-583.7, 585.x, 586.x, 588.x	I12.0, I13.1, N03.2-N03.7, N05.2-N05.7, N18.x, N19.x, N25.0, Z49.0-Z49.2, Z94.0, Z99.2
Any malignancy	140.x-172.x, 174.x-195.8, 200.x-208.x	C00.x-C26.x, C30.x-C34.x, C37.x-C41.x, C43.x, C45.x-C58.x, C60.x-C76.x, C81.x-C85.x, C88.x, C90.x-C97.x
Metastatic cancer	196.x-199.1	C77.x-C80.x
Moderate or severe liver disease	456.0-456.21, 572.2-572.8	I85.0, I85.9, I86.4, I98.2, K70.4 K71.1, K72.1, K72.9, K76.5, K76.6, K76.7
AIDS/HIV	042.x-044.x	B20.x-B22.x, B24.x

AIDS = acquired immunodeficiency syndrome, HIV- human immunodeficiency virus