Supplemental table 1: ICD10 codes used to define clinical conditions and procedures

Cardiagonia Shaak	R57.0	
Cardiogenic Shock Acute Kidney Injury		
	N17, N19	
Anemia	D50, D508, D509, D51, D53	
Coronary artery bypass graft	0210, 0211, 0212, 0213	
Coronary artery disease	120, 121, 122, 123, 124, 125	
Heart failure	1099, 1110, 1130, 1132, 1255, 1420, 1425, 1429, 143, 150	
Chronic Liver Disease	B180, K730, K740, K700, K7010, K702, K7030, K709, K717, K713, K714, K7150, K760, K762, K763, K764, K760, K769, Z944	
Chronic deep vein thrombosis	182211, 182291, 1825, 1827, 182A2, 182B2, 182C2, 182891, 1825, 1827, 182A2, 182B2, 182C2, 182891, 18291, V1251, V1255	
Chronic Kidney Disease	I131, N18, N19, N250, Z490, Z492, Z940, Z992	
Coagulopathy	D65, D68, D66, D67, D691, D693, D696	
Connective Tissue Disease	L940, L941, L943, M05, M06, M08, M12, M123, M30, M310, M313, M32, M33, M34, M35, M45, M461, M468, M469	
Chronic obstructive pulmonary disease	I278, I279, J40, J47, J60, J67, J684, J701, J703	
Depression	F204, F313, F315, F32, F33, F341, F412, F432	
Diabetes	E08, E09, E10, E11, E12, E13	
Drug Abuse	F11, F16, F18, F19, Z715, Z722, F15, F12	
Acute deep vein thrombosis	182210, 182220, 182290, 1824, 1826, 182A1, 182B1, 182C1, 182890, 18290	
ECMO	5A15223	
Ethanol intake	F10, E52, G621, I426, K292, K700, K703, K709, T51, Z502, Z714, Z721	
Atrial fibrillation/atrial flutter	148.	
Gastrointestinal bleeding	K9202, K9201, K9200, K625, R195, D50	
Hemodialysis	5A1D	
Hyperlipidemia	E78	
Hypertension	110, 111, 113, 115, 116	
Hypothyroidism	E00, E03, E01, E02, E890, E00, E01, E02, E03, E890	
Intraaortic balloon pump	5A02110. 5A02210	
Percutaneous ventricular assist device	5A0221D, 5A0211D	
Myocarditis	I514, I40, I41, B3322, D8685, J1182	
NSTEMI	1214	
STEMI	121, 122	
Obesity	E65, E66, E67, E68, Z683, Z684	
Obstructive sleep apnea	G473	
Pulmonary embolism	126	
Pulmonary hypertension	26, 27, 28, 288, 289	
, , , , , , , , , , , , , , , , , , , ,	3E030XZ, 3E033XZ, 3E040XZ, 3E043XZ, 3E050XZ, 3E053XZ, 3E060XZ,	
Vasopressors	3E063XZ	
Psychosis	F20, F22, F25, F28, F29, F302, F312, F315,	
Peripheral vascular disease	170, 171, 1731, 1738, 1739, 1771, 1790, 1792, K551, K558, K559, Z958, Z959,	
Right Heart Cath	4A023N6, 4A023N8	
Smoking	F17, Z87891, Z720, T652, V1582	
Stroke	169, Z8673, 163, 197811, 197821, 16781, 16782, 16789, 160, 161, 162, V1254	
Heart Transplant	02YA	
V fib/Flutter	149	
Left ventricular assist device	02HA0QZ, 02HA3RZ	
Valvular heart Disease	105, 106, 107, 108, 109, 139, Q230, Q233, Z952, Z954	
Ventilator	5A19	

	OR [95% CI]	P value			
ECMO post-ca	ECMO post-cardiac surgery				
Length of	1.02 [1-1.03]	0.006			
stay					
Medicaid as	4.11 [1.39-12.1]	0.01			
payor					
Underwent	3.59 [1.19-10.84]	0.023			
LVAD					
Diabetes	2.68 [1.18-6.05]	0.018			
Acute DVT	2.95 [1.14-7.58]	0.025			
Deficiency	12.66 [0.94-171.19]	0.056			
Anemia					
Underwent	0.16 [0.04-0.58]	0.006			
Heart					
Transplant					
Location	0.37 [0.14-0.97]	0.044			
defined as					
Fringe					
counties of					
metro area					
of > 1 million					
population					
Counties in	0.14 [0.04-0.48]	0.002			
metro area					
of 250,000-					
999,999					
population	/				
Micropolitan	0.22 [0.06-0.87]	0.031			
counties					
Not	0.06 [0.01-0.51]	0.01			
metropolitan					

Supplemental table 2: Predictors of 30-day readmissions among subsets

ECMO not following cardiac surgery

Discharged to SNF	2.11 [1.06-4.21]	0.03
Discharged with HCC	2.15 [1.09-4.22]	0.03
Underwent LVAD	2.36 [1.31-4.25]	0.00
Asthma	3.69 [1.30-10.43]	0.01
Chronic Liver Disease	2.86 [1.06-7.72]	0.04

Patient discharged with no LVAD

during admission

Futient discharged with no LVAD				
Discharged	2.3 [1.21-4.4]	0.01		
to SNF				
Discharged	2.19 [1.12-4.26]	0.02		
with HCC				
Asthma	2.53 [0.99-6.46]	0.05		
Chronic Liver	2.36 [1.03-5.41]	0.04		
Disease				
Patient who underwent LVAD during index hospitalization				
Dyslipidemia	3.17 [1.2-8.4]	0.02		
Cardiac	3.96 [1.04-15.15]	0.04		
Arrest				

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