

1 Supplemental Table 1: Covariates considered for multivariable regression

Potential covariates	Number of models	Percent Missing Data
Postoperative atrial fibrillation	6	0%
Preoperative ventricular arrhythmia	3	0%
Age	3	0%
Preoperative inotropes	0	0%
Last creatinine	3	0%
Last hematocrit	4	0.2%
Last platelet count	1	0.2%
Total bilirubin	3	0.8%
Last INR	1	0.6%
Total albumin	4	1.0%
Heart Mate II device	1	0%
LVAD volume by center	1	0%
Year	1	0%

2 LVAD=left ventricular assist device

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5 Supplemental Table 2. Multivariable logistic regression for operative mortality

Covariate	OR	95% Confidence Interval	p-value
Postoperative atrial fibrillation	0.977	0.510	1.872
Total bilirubin	1.164	0.934	1.45
Last creatinine	1.335	0.909	1.961
Age	1.028	1.005	1.052
Total albumin	0.643	0.38	1.088
LVAD volume by center	1.005	0.998	1.013
Last hematocrit	0.948	0.902	0.996

6 LVAD=left ventricular assist device

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10 Supplemental Table 3. Multivariable logistic regression for major morbidity

Covariate	OR	95% Confidence Interval	p-value
Postoperative atrial fibrillation	2.464	1.494	4.063
Total bilirubin	1.370	1.041	1.802
Last INR	0.620	0.337	1.142
Last creatinine	1.311	0.913	1.883
Preoperative inotropes	1.296	0.844	1.990
LVAD volume by center	1.003	0.998	1.008
Last platelet count	0.998	0.995	1.000
Last hematocrit	0.948	0.918	0.979

11 LVAD=left ventricular assist device

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15 Supplemental Table 4. Multivariable logistic regression for permanent stroke

Covariate	OR	95% Confidence Interval	p-value
Postoperative atrial fibrillation	1.189	0.416	3.399
Last hematocrit	0.886	0.818	0.960

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20 Supplemental Table 5. Multivariable logistic regression for unplanned RVAD

Covariate	OR	95% Confidence Interval		p-value
Postoperative atrial fibrillation	2.900	1.296	6.49	0.0096
Last creatinine	1.472	0.932	2.326	0.0973
Total albumin	2.900	1.296	6.49	0.0096

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Supplemental Table 6. Multivariable logistic regression for renal failure

Covariate	OR	95% Confidence Interval		p-value
Postoperative atrial fibrillation	1.963	0.972	3.967	0.0602
Total bilirubin	1.868	1.24	2.813	0.0028
Last creatinine	1.022	0.995	1.051	0.1108
Age	1.573	1.193	2.074	0.0013

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Supplemental Table 7. Multivariable logistic regression for cardiac arrest

Covariate	OR	95% Confidence Interval		p-value
Postoperative atrial fibrillation	3.423	1.207	9.706	0.0207
Last creatinine	0.383	0.098	1.501	0.1683

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Supplemental Table 8. Multivariable logistic regression for discharge to facility

Covariate	OR	95% Confidence Interval		p-value
Postoperative atrial fibrillation	2.234	1.246	4.006	0.0070
Preoperative ventricular arrhythmia	1.897	1.09	3.301	0.0235
Preoperative inotropes	1.818	0.947	3.487	0.0723
Age	1.037	1.014	1.061	0.0019
LVAD volume by center	1.004	0.997	1.01	0.2846
Last hematocrit	0.924	0.882	0.968	0.0009

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Supplemental Table 9. Multivariable linear regression for intensive care unit length of stay

Covariate	Estimate	95% Confidence Limits		p-value
Postoperative atrial fibrillation	87.74839	22.49032	153.00646	0.0085
Preoperative ventricular arrhythmia	73.77964	15.00512	132.55417	0.014
Total bilirubin	22.92516	0.6107	45.23962	0.0441
Last INR	-16.70814	-75.20648	41.7902	0.5749
Last creatinine level	67.24387	22.36706	112.12068	0.0034
Preoperative inotropes	8.38774	-52.15811	68.93358	0.7856
Age	0.58443	-1.54488	2.71375	0.5899
Total albumin	-56.79544	-102.88376	-10.70712	0.0158
LVAD volume by center	-0.55471	-1.28446	0.17504	0.1359
Last platelet	-0.10935	-0.41307	0.19437	0.4796
Last hematocrit	-0.81524	-5.26905	3.63857	0.7192
HeartMate II device	-59.93832	-126.05372	6.17708	0.0755
Year	1.55119	-15.44528	18.54767	0.8577

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INR=international normalized ratio; LVAD=left ventricular assist device

39 Supplemental Table 10. Multivariable linear regression for postoperative length of stay

Covariate	Estimate	95% Confidence Limits	p-value
Postoperative atrial fibrillation	4.9437	0.72892	9.15848
Preoperative ventricular arrhythmia	1.50535	-2.30008	5.31077
Total bilirubin	0.01504	-1.43069	1.46077
Last INR	-2.48553	-6.2766	1.30553
Last creatinine level	6.29445	3.38812	9.20078
Preoperative inotropes	2.40755	-1.47624	6.29133
Age	0.02886	-0.10747	0.16519
Total albumin	-2.87937	-5.85481	0.09606
LVAD volume by center	0.02452	-0.02276	0.0718
Last platelet	-0.01462	-0.03417	0.00492
Last Hematocrit	-0.06158	-0.34999	0.22683
HeartMate II device	-2.55351	-6.81143	1.70442
Year	-0.93325	-2.02661	0.16011

40 INR=international normalized ratio; LVAD=left ventricular assist device

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43 Supplemental Table 11. Multivariable linear regression for intensive care unit cost

Covariate	Estimate	95% Confidence Limits	p-value
Postoperative atrial fibrillation	5488.22	-2538.8	13515
Preoperative ventricular arrhythmia	7664.69	372.8267	14957
Total bilirubin	2315.59	-394.608	5025.794
Last INR	-916.897	-9471.28	7637.49
Last creatinine level	11427	5893.278	16961
Preoperative inotropes	4999.05	-2350	12348
Age	-49.7071	-307.374	207.9594
Total albumin	-11123	-16771	-5474.16
LVAD volume by center	-112.678	-205.429	-19.9274
Last platelet	-8.95529	-46.2938	28.3832
Last hematocrit	-316.1071	-868.77372	236.55953
HeartMate II device	-12183	-20297	-4069.02
Year	-4258.5	-6496.73	-2020.33

44 INR=international normalized ratio; LVAD=left ventricular assist device

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47 Supplemental Table 12. Multivariable linear regression for total hospital cost

Covariate	Estimate	95% Confidence Limits	p-value
Postoperative atrial fibrillation	19183	-16918	55283
Preoperative ventricular arrhythmia	10637	-22158	43431
Total bilirubin	12156	-32.3236	24345
Last INR	-52569	-91041	-14097
Last creatinine level	26023	1134.969	50910
Preoperative inotropes	10269	-22783	43320
Age	557.096	-601.73	1715.921
Total albumin	-32356	-57759	-6952.21
LVAD volume by center	108.0781	-309.058	525.2141
Last platelet	-56.5075	-224.433	111.4181
Last hematocrit	-2373.61	-4859.16	111.946
HeartMate II device	-31116	-67608	5375.19
Year	3151.24	-6914.79	13217

48 INR=international normalized ratio; LVAD=left ventricular assist device