

The following content was supplied by the authors as supporting material and has not been copy-edited or verified by JBJS.

Supplemental Table 1 – Algorithm and C-Statistics for Propensity Models

Algorithm to estimate the propensity score for the entire cohort

The treatment is TXA

TXA Flag	Freq.	Percent	Cum.
0	800	69.75	69.75
1	347	30.25	100
Total	1,147	100	

Estimation of the propensity score

Iteration 0: log likelihood = -613.78323

Iteration 1: log likelihood = -603.3977

Iteration 2: log likelihood = -603.35274

Iteration 3: log likelihood = -603.35273

Logistic regression

Number of obs = 974

LR chi2(14) = 20.86

Prob > chi2 = 0.1052

Pseudo R2 = 0.0170

Log likelihood = -603.35273

					95% CI	
TXA	Coefficient	Std. err	z	P>z	LCL	UCL
Risk	-0.048	0.168	-0.28	0.777	-0.376	0.281
Age (mean)	0.002	0.006	0.38	0.706	-0.009	0.013
Female	0.287	0.157	1.83	0.068	-0.021	0.595
BMI (mean)	0.003	0.012	0.27	0.785	-0.020	0.027
ASA	-0.124	0.113	-1.09	0.274	-0.345	0.098
Charlson Comorbidity Index	-0.031	0.042	-0.73	0.462	-0.113	0.051
Tobacco Use	-0.112	0.229	-0.49	0.624	-0.562	0.337
Blood Transfusion	-0.335	0.172	-1.95	0.051	-0.672	0.001
Post-Op Parenteral Anticoagulation	0.217	0.168	1.29	0.198	-0.113	0.547
Post-Op Antiplatelet	0.063	0.162	0.39	0.696	-0.254	0.380
Post-Op P2y12 Inhibitor	-0.108	0.433	-0.25	0.804	-0.957	0.742

Post-Op Oral Anticoagulation	-0.264	0.207	-1.27	0.203	-0.671	0.142
Pre-Op Hemoglobin (mean)	-0.078	0.046	-1.7	0.09	-0.168	0.012
Surgical Interval	0.200	0.098	2.05	0.04	0.009	0.392
_cons	-0.247	0.849	-0.29	0.771	-1.911	1.416

Note: the common support option has been selected

The region of common support is [.16561223, .52310936]

Description of the estimated propensity score in region of common support

Estimated propensity score

Percentiles		Smallest	
1%	.1800578	.1656122	
5%	.2178118	.1671658	
10%	.2384835	.1712124	Obs
25%	.275882	.1714115	Sum of wgt.
		Mean	.3254686
50%	.3243864	Largest	Std. dev.
			.0670314
75%	.3726571	.5178839	
90%	.4087217	.5180626	Variance
			.0044932
95%	.4342487	.5211996	Skewness
			.1216656
99%	.4880342	.5231094	Kurtosis
			2.690626

Step 1: Identification of the optimal number of blocks

The final number of blocks is 4

This number of blocks ensures that the mean propensity score is not different for treated and controls in each blocks

Step 2: Test of balancing property of the propensity score

The balancing property is satisfied

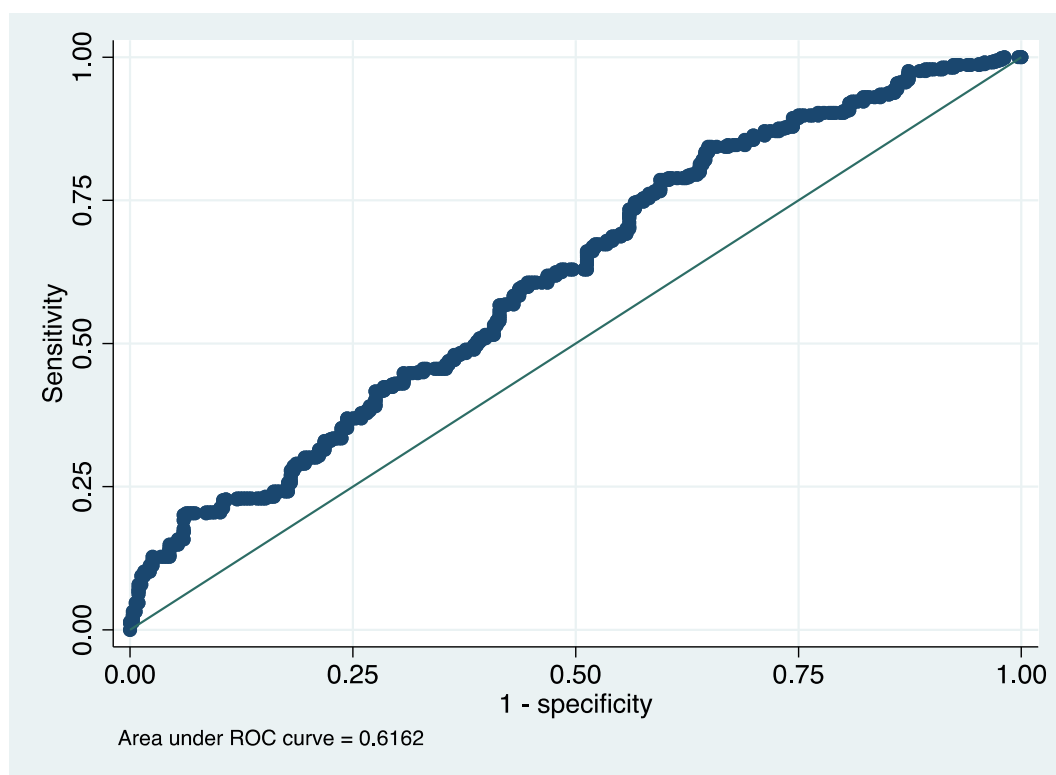
This table shows the inferior bound, the number of treated and the number of controls for each block

Inferior of block of pscore	TXA Administration Flag		Total
	0	1	
0.1656122	21	2	23

0.2	237	87	324
0.3	322	177	499
0.4	72	50	122
Total	652	316	968

End of the algorithm to estimate the pscore

.....



Algorithm to estimate the propensity score for High-Risk Population

The treatment is TXA

TXA Flag	Freq.	Percent	Cum.
0	406	71.99	71.99
1	158	28.01	100
Total	564	100	

Estimation of the propensity score

Iteration 0: log likelihood = -286.74909

Iteration 1: log likelihood = -278.1988

Iteration 2: log likelihood = -278.12456

Iteration 3: log likelihood = -278.12454

Logistic regression

Number of obs = 469

LR chi2(13) = 17.25

Prob > chi2 = 0.1882

Log likelihood = -278.12454

Pseudo R2 = 0.0301

					95% CI	
TXA	Coefficient	Std. err	z	P>z	LCL	UCL
Age (mean)	0.00	0.01	-0.19	0.853	-0.02	0.02
Female	0.40	0.23	1.77	0.076	-0.04	0.84
BMI (mean)	-0.01	0.02	-0.54	0.59	-0.05	0.03
ASA	-0.08	0.16	-0.51	0.609	-0.41	0.24
Charlson Comorbidity Index	-0.09	0.05	-1.65	0.099	-0.19	0.02
Tobacco Use	-0.09	0.34	-0.27	0.784	-0.77	0.58
Blood Transfusion	-0.27	0.24	-1.11	0.266	-0.74	0.2
Post-Op Parenteral Anticoagulation	0.45	0.24	1.9	0.057	-0.01	0.91
Post-Op Antiplatelet	-0.23	0.22	-1.04	0.297	-0.67	0.21
Post-Op P2y12 Inhibitor	0.28	0.47	0.59	0.558	-0.65	1.2
Post-Op Oral Anticoagulation	-0.29	0.24	-1.24	0.217	-0.76	0.17
Pre-Op Hemoglobin (mean)	-0.04	0.07	-0.66	0.511	-0.18	0.09
Surgical Interval	0.09	0.13	0.66	0.51	-0.18	0.35
_cons	0.11	1.31	0.08	0.936	-2.47	2.68

Description of the estimated propensity score

Estimated propensity score				
	Percentiles	Smallest		
1%	.1286551	.1102445		
5%	.1662572	.1192342		
10%	.1909562	.1233594	Obs	469
25%	.2359387	.1267257	Sum of wgt.	469
50%	.2920647		Mean	.3006397
			Largest Std. dev.	.087464
75%	.3633856	.5059969		
90%	.4268539	.510572	Variance	.0076499
95%	.4471386	.5167197	Skewness	.2261094
99%	.4895483	.529463	Kurtosis	2.353767

Step 1: Identification of the optimal number of blocks

The final number of blocks is 4

This number of blocks ensures that the mean propensity score is not different for treated and controls in each blocks

Step 2: Test of balancing property of the propensity score

The balancing property is satisfied

This table shows the inferior bound, the number of treated and the number of controls for each block

Inferior of block of pscore	TXA Administration Flag		Total
	0	1	
0	127	27	154
0.2	139	47	186
0.3	96	53	149

	0.4	44	31	75
Total		406	158	564

End of the algorithm to estimate the pscore

