

Supplement 1. Logistic Regression on Factors Associated with Receiving SAE in 1st 24 Hours

Characteristic (n=5,704)	Odds Ratio	95% Confidence Interval	p Value
NTDB cohort (vs. Stanford/SCVMC)	2.79	1.68-4.66	0.000*
Age 18-25	0.62	0.47-0.82	0.001*
Age 26-35	0.64	0.49-0.84	0.001*
Age 36-49	0.76	0.59-0.99	0.043*
Age 50-64	0.84	0.65-1.08	0.165
Age 65+	1	Reference	–
Public Insurance	0.83	0.69-0.99	0.036*
No Insurance	0.83	0.66-1.05	0.116
Other Insurance	0.89	0.57-1.39	0.625
Private Insurance	1	Reference	–
Co-morbidity (one)	1.14	0.95-1.37	0.156
Co-morbidity (two+)	1.22	1.01-1.48	0.043*
Co-morbidity (none)	1	Reference	–
Spleen AIS III	0.60	0.46-0.79	0.000*
Spleen AIS IV	1.59	1.24-2.05	0.000*
Spleen AIS V	1	Reference	–
ISS – 9-15	1.26	0.98-1.62	0.070
ISS – 16-24	1.16	0.96-1.40	0.116
ISS >=25	1	Reference	–
Platelets 24 hours (2+ units)	1.84	0.92-3.67	0.086
Anticoagulant History	1.39	0.97-1.99	0.004*
Any Abdominal Injury AIS >=3	0.69	0.55-0.89	0.000*

*Statistically significant, only selected variables shown

SAE = Splenic Angioembolization, NTDB = National Trauma Data Bank, AIS = Abbreviated Injury Scale, ISS = Injury Severity Score

Supplement 2. Logistic Regression on Factors Associated with Receiving Surgery in 1st 24 Hours

Characteristic (n=5,704)	Odds Ratio	95% Confidence Interval	p Value
NTDB cohort (vs. Stanford/SCVMC)	0.91	0.63-1.33	0.637
Age 18-25	0.98	0.72-1.32	0.891
Age 26-35	1.05	0.79-1.41	0.725
Age 36-49	1.19	0.89-1.58	0.230
Age 50-64	1.38	1.05-1.81	0.020*
Age 65+	1	Reference	–
Race – N/A	0.49	0.27-0.88	0.017*
Race – Other	0.79	0.58-1.08	0.134
Race – Asian	1.39	0.83-2.32	0.208
Race – Black	1.03	0.79-1.32	0.844
Race – White	1	Reference	–
Co-morbidity (one)	1.08	0.89-1.29	0.443
Co-morbidity (two+)	1.23	1.01-1.49	0.043*
Co-morbidity (none)	1	Reference	–
Mechanism – Motor vehicle	1.02	0.77-1.35	0.867
Mechanism – Motorcycle	0.69	0.50-0.97	0.033*
Mechanism – Fall	0.79	0.58-1.07	0.129
Mechanism – Pedestrian	0.97	0.66-1.43	0.886
Mechanism – Bicycle	0.86	0.47-1.57	0.631
Mechanism – Blunt Other	1	Reference	–
Spleen AIS III	0.12	0.09-0.16	0.000*
Spleen AIS IV	0.69	0.31-0.49	0.000*
Spleen AIS V	1	Reference	–
Shock Index (<0.5)	0.59	0.42-0.85	0.004*
Shock Index (0.5-0.9)	0.64	0.54-0.75	0.000*
Shock Index (>0.9)	1	Reference	–

Continued

Supplement 2. Logistic Regression on Factors Associated with Receiving Surgery in 1st 24 Hours (Continued)

Characteristic (n=5,704)	Odds Ratio	95% Confidence Interval	p Value
Blood 4 hours (0-2 units)	0.34	0.14-0.82	0.016*
Blood 4 hours (3-9 units)	0.89	0.43-1.87	0.766
Blood 4 hours (10+ units)	1	Reference	–
Plasma 24 hours (0-2 units)	0.29	0.11-0.75	0.011*
Plasma 24 hours (3-9 units)	0.42	0.19-0.92	0.030*
Plasma 24 hours (10+ units)	1	Reference	–
Anticoagulant History	1.14	0.76-1.72	0.535
Any Abdominal Injury AIS \geq 3	1.17	0.95-1.43	0.135

*Statistically significant, only selected variables shown

AIS = Abbreviated Injury Scale, NTDB = National Trauma Data Bank

Supplement 3. Logistic Regression on Factors Associated with Receiving NOM in 1st 24 Hours

Characteristic (n=5,704)	Odds Ratio	95% Confidence Interval	p Value
NTDB cohort (vs. Stanford/SCVMC)	0.59	0.43-0.83	0.002*
Age 18-25	1.44	1.13-1.83	0.003*
Age 26-35	1.33	1.05-1.68	0.017*
Age 36-49	1.09	0.87-1.37	0.457
Age 50-64	0.92	0.74-1.15	0.457
Age 65+	1	Reference	–
Race – N/A	1.54	0.93-2.53	0.090
Race – Other	1.14	0.89-1.46	0.297
Race – Asian	0.68	0.44-1.05	0.084
Race – Black	0.92	0.74-1.13	0.418
Race – White	1	Reference	–
Co-morbidity (one)	0.88	0.75-1.02	0.091
Co-morbidity (two+)	0.77	0.65-0.90	0.001*
Co-morbidity (none)	1	Reference	–
Spleen AIS III	7.59	6.09-9.48	0.000*
Spleen AIS IV	1.83	1.48-2.27	0.000*
Spleen AIS V	1	Reference	–
ISS – 9-15	0.74	0.60-0.91	0.005*
ISS – 16-24	0.83	0.71-0.98	0.024*
ISS >=25	1	Reference	–
Shock Index (<0.5)	1.37	1.04-1.79	0.023*
Shock Index (0.5-0.9)	1.34	1.16-1.54	0.000*
Shock Index (>0.9)	1	Reference	–
Plasma 24 hours (0-2 units)	3.36	1.23-9.18	0.018*
Plasma 24 hours (3-9 units)	1.83	0.78-4.30	0.162
Plasma 24 hours (10+ units)	1	Reference	–

Continued

Supplement 3. Logistic Regression on Factors Associated with Receiving NOM in 1st 24 Hours (Continued)

Characteristic (n=5,704)	Odds Ratio	95% Confidence Interval	p Value
Anticoagulant History	0.69	0.49-0.98	0.035*
Any Abdominal Injury AIS \geq 3	1.10	0.92-1.32	0.295

*Statistically significant, only selected variables shown

AIS = Abbreviated Injury Scale, NTDB = National Trauma Data Bank