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Supplementary Table S1. 2005 Abbreviated Injury Scale and International Statistical Classification of Diseases and Related Health Problems, Tenth Edition, Procedure Coding System for study interventions

2005 AIS closed pelvic fractures	“856100,” “856151,” “856161,” “856163,” “856164,” “856171,” “856172,” “856173”
ICD10-PCS PPP	“2W43X5Z”
ICD10-PCS AE	“04LC3DZ,” “04LC4DZ,” “04LD3DZ,” “04LD4DZ,” “04LE3DZ,” “04LE4DZ,” “04LF3DZ,” “04LF4DZ,” “04LH3DZ,” “04LH4DZ,” “04LJ3DZ,” “04LJ4DZ”
ICD10- PCS Exploratory Laparotomy	“0DJW0ZZ”

AIS: Abbreviated Injury Scale, PPP: Preperitoneal Packing, AE: Angioembolization, ICD-10-PCS) International Statistical Classification of Diseases and Related Health Problems.

Supplementary Table S2. Therapeutic interventions during index hospitalization before matching.

	PPP n = 502	AE n = 2493	SMD
Time from admission to PPP versus AE, minutes (95% CI)	214.7 (180.2, 249.1)	250.2 (241.6, 258.7)	0.186
Exploratory laparotomy, %	357 (71.1)	694 (27.8)	1.000
Resuscitation within 4 hours			
RBCs, cc (95% CI)	645.5 (481.0, 810.0)	569.1 (518.8, 619.4)	0.170
Plasma, cc (95% CI)	450.7 (357.7, 543.8)	355.2 (324.3, 386.0)	0.230
Platelets, cc (95% CI)	192.0 (168.6, 215.3)	164.8 (158.3, 171.4)	0.0118
Cryoprecipitate, cc (95% CI)	58.8 (50.9, 66.6)	50.1 (46.9, 53.3)	0.064
Resuscitation within 24 hours			
RBCs, cc (95% CI)	2454.3 (1972.8, 2935.9)	2039.7 (1898.9, 2180.6)	0.09
Plasma, cc (95% CI)	1567.1 (1259.8, 1874.4)	1206.3 (1104.3, 1308.2)	0.135
Platelets, cc (95% CI)	368.7 (283.2, 454.1)	292.6 (265.0, 320.2)	0.133
Cryoprecipitate, cc (95% CI)	70.4 (50.2, 90.7)	64.1 (51.7, 76.5)	0.054
Time to VTE prophylaxis, days (95% CI)	4.0 (3.7, 4.4)	4.6 (4.4, 4.8)	0.109
Anticoagulation for prophylaxis of VTE			
Heparin, %	70 (13.9)	433 (17.4)	0.094
LMWH, %	305 (60.8)	1519 (60.9)	0.004
Xa Inhibitor, %	0	7 (0.3)	0.075
Other, %	20 (4.0)	44 (1.8)	0.133
None, %	107 (21.3)	490 (19.7)	0.036

PPP: Preperitoneal Packing, AE: Angioembolization, SMD: Standardized Mean Difference, CI: Confidence Interval, RBCs: Red Blood Cells, cc: cubic centimeters, VTE: Venous Thromboembolism, LMWH: Low Molecular Weight Heparin.

Supplementary Table S3. Treating facility characteristics by treatment.

	Unmatched			Matched		
	PPP n = 502	AE n = 2493	SMD	PPP n = 183	AE n = 183	SMD
State Designation						
I, %	314 (62.5)	1530 (61.4)	0.337	131 (71.6)	134 (73.2)	0.037
II, %	120 (23.9)	606 (24.3)	0.069	33 (18.0)	27 (14.8)	0.088
III, %	8 (1.6)	20 (0.8)	0.029	0	0	0
Other, %	55 (11.0)	258 (10.3)	0.159	18 (9.8)	14 (7.7)	0.077
Not Applicable, %	5 (1.0)	78 (3.1)	0.52	1 (0.5)	8 (4.4)	0.248
Teaching Status, %	317 (63.1)	1511 (60.6)	0.052	126 (68.9)	122 (66.7)	0.047
Number of inpatient beds						
≤200, %	155 (30.9)	668 (26.8)	0.090	55 (30.1)	58 (31.7)	0.035
201-400, %	90 (17.9)	401 (16.1)	0.049	31 (16.9)	29 (15.8)	0.029
401-600, %	121 (24.1)	605 (24.3)	0.004	37 (20.2)	37 (20.2)	0
≥601, %	136 (27.1)	819 (32.9)	0.126	60 (32.8)	59 (32.2)	0.011
Not-for-profit status, %	457 (91.0)	2293 (92.0)	0.030	169 (92.3)	163 (89.1)	0.113

PPP: Preperitoneal Packing, AE: Angioembolization, SMD: Standardized Mean Difference.

Supplementary Table S4. Angioembolization procedures.

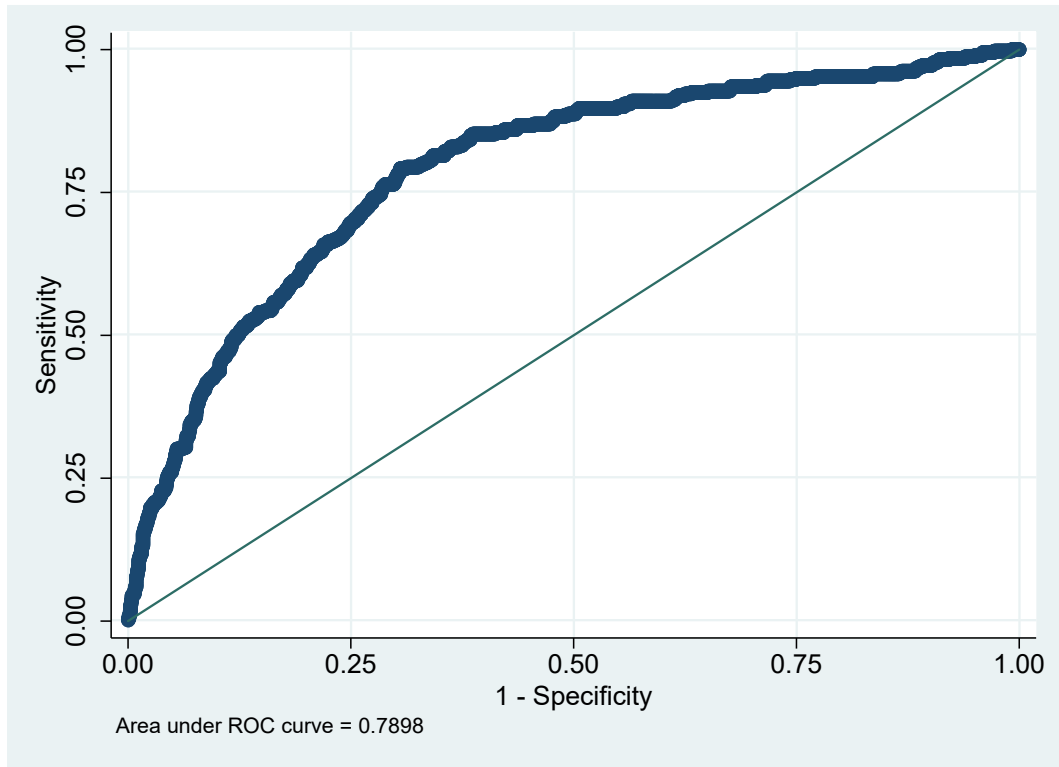
	Unmatched			Matched		
	PPP n = 502	AE n = 2493	SMD	PPP n = 183	AE n = 183	SMD
Internal Iliac Branches, %	0	2493 (100%)	1.000	0	183 (100%)	1.000
Common Iliac, %	0	3 (0.1)	0.049	0	1 (0.6)	0.105
External Iliac, %	1 (0.2)	41 (1.6)	0.224	0	3 (1.7)	0.210
Internal Iliac, %	0	61 (2.4)	0.152	0	4 (2.2)	0.182
Aorta, %	1 (0.2)	6 (0.2)	0.008	0	0	0
Kidney, %	6 (1.2)	21 (0.8)	0.038	5 (2.7)	2 (1.1)	0.120
Liver, %	11 (2.2)	27 (1.1)	0.091	4 (2.2)	4 (2.2)	0
Spleen, %	6 (1.2)	61 (2.4)	0.091	3 (1.6)	6 (3.3)	0.106
Peripheral Vasculature, %	4 (0.8)	11 (0.4)	0.048	4 (2.2)	1 (0.6)	0.141
Other, %	9 (1.8)	62 (2.5)	0.038	6 (3.3)	4 (2.2)	0.060

PPP: Preperitoneal Packing, AE: Angioembolization, SMD: Standardized Mean Difference.

Supplementary Table S5. Outcomes by PPP versus AE before matching.

	Unmatched				
	PPP n = 502	AE n = 2493	RR (95% CI)	ARD (%)	SMD
VTE, %	62 (12.4)	191 (7.7)	1.6 (1.2, 2.1)	4.7 (1.6, 7.8)	0.156
DVT, %	39 (7.7)	131 (5.3)	1.5 (1.0, 2.1)	2.5 (0.1, 5.0)	0.102
PE, %	28 (5.6)	63 (2.5)	2.2 (1.4, 3.4)	3.1 (1.0, 5.2)	0.155
Overall Mortality, %	115 (22.9)	481 (19.3)	1.2 (0.99, 1.4)	3.6 (-0.4, 7.6)	0.088
Total LOS, days (95% CI)	24.8 (22.8, 26.8)	22.2 (21.4, 23.0)	N/A	N/A	0.117
ICU LOS, days (95% CI)	14.6 (13.4, 15.8)	11.3 (10.9, 11.8)	N/A	N/A	0.259
Days on Respiratory Support, (95% CI)	10.1 (9.1, 11.1)	9.8 (9.3, 10.3)	N/A	N/A	0.025
Withdrawal of Life Support, %	59 (11.8)	292 (11.7)	1.0 (0.77, 1.3)	0.1 (-3.0, 3.1)	0.024
Days to Withdrawal of Life Support, (95% CI)	7.2 (5.1, 9.2)	9.5 (8.2, 10.8)	N/A	N/A	0.237
Inpatient Complication Rate, %	332 (66.1)	1446 (58.0)	1.1 (1.1, 1.2)	8.1 (3.6, 12.7)	0.168
Acute Kidney Injury, %	39 (7.8)	158 (6.3)	1.2 (0.88, 1.7)	1.4 (-1.1, 4.0)	0.056
Central Line Associated Bloodstream Infection, %	9 (1.8)	33 (1.3)	1.4 (0.65, 2.8)	0.47 (-0.8, 1.7)	0.038
Catheter Associated UTI, %	15 (3.0)	76 (3.0)	0.98 (0.57, 1.7)	0 (-1.7, 1.6)	0.004
Deep SSI, %	14 (2.8)	56 (2.2)	1.2 (0.70, 2.2)	0.6 (-1.0, 2.1)	0.038
Extremity Compartment Syndrome, %	10 (2.0)	51 (2.1)	0.97 (0.50, 1.9)	-0.1 (-1.4, 1.2)	0.004
Intubation, %	25 (5.0)	125 (5.0)	0.99 (0.65, 1.5)	0 (-2.1, 2.1)	0.002
Myocardial Infarction, %	8 (1.6)	28 (1.1)	1.4 (0.65, 3.1)	0.5 (-0.7, 1.6)	0.041
Organ Space SSI, %	17 (3.4)	50 (2.0)	1.7 (0.98, 2.9)	1.4 (-0.3, 3.1)	0.085
Osteomyelitis, %	8 (1.6)	32 (1.3)	1.2 (0.58, 2.8)	0.3 (-0.9, 1.5)	0.026
Respiratory Failure, %	24 (4.8)	89 (3.6)	1.3 (0.86, 2.1)	1.2 (0.5, 4.4)	0.061
Unplanned Return to OR, %	45 (9.0)	117 (4.7)	1.9 (1.4, 2.7)	4.3 (1.6, 6.9)	0.170
Sepsis, %	26 (5.2)	66 (2.6)	2.0 (1.3, 3.0)	2.5 (0.5, 4.6)	0.131
Stroke, %	16 (3.2)	60 (2.4)	1.3 (0.77, 2.3)	0.2 (-0.9, 2.4)	0.047
Superficial SSI, %	10 (2.0)	48 (1.9)	1.0 (0.53, 2.0)	0.1 (-1.3, 1.4)	0.005
Unplanned Admission to ICU, %	21 (4.2)	102 (4.1)	1.0 (0.65, 1.6)	0.1 (-1.8, 2.0)	0.005
Ventilator Associated Pneumonia, %	21 (4.2)	148 (5.9)	0.70 (0.45, 1.1)	-1.7 (-3.7, 0.2)	0.080
Other, %	43 (8.6)	258 (10.3)	0.83 (0.61, 1.1)	-1.7 (-4.5, 0.9)	0.061

Supplementary Figure S1: Receiver operating characteristic curve of propensity score model predicting decision to treat with preperitoneal packing.



Logistic regression

Number of obs = 2,869

LR chi2(10) = 397.87

Prob > chi2 = 0.0000

Pseudo R2 = 0.1725

Log likelihood = -954.41382

	ppp	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
	age	-.0161024	.0035836	-4.49	0.000	-.0231262	-.0090786
	levell	-.198459	.1241638	-1.60	0.110	-.4418155	.0448975
	iss	.015049	.0050703	2.97	0.003	.0051114	.0249867
	truePlasma4h	-.0000879	.000082	-1.07	0.284	-.0002487	.0000729
	TileB_C_pring	-.9605794	.1307325	-7.35	0.000	-1.21681	-.7043485
	cc_smoking	.4374023	.1630012	2.68	0.007	.1179258	.7568788
	exlap	1.88201	.1307784	14.39	0.000	1.625689	2.138331
AIS_head_over2		-.3079386	.1302599	-2.36	0.018	-.5632434	-.0526338
	truePLTs4h	.0002237	.0003912	0.57	0.567	-.000543	.0009903
	femurfx_BL	.3186816	.2405605	1.32	0.185	-.1528082	.7901715
	_cons	-1.8516	.2513201	-7.37	0.000	-2.344179	-1.359022

```
. predict p1
(option pr assumed; Pr(ppp))
(126 missing values generated)
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estat gof, group(10) table
note: obs collapsed on 10 quantiles of estimated probabilities.
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Goodness-of-fit test after logistic model

Variable: ppp

Table collapsed on quantiles of estimated probabilities

Group	Prob	Obs_1	Exp_1	Obs_0	Exp_0	Total
1	0.0390	13	9.6	287	290.4	300
2	0.0491	16	13.2	284	286.8	300
3	0.0604	10	16.4	289	282.6	299
4	0.0740	19	20.0	280	279.0	299
5	0.0948	20	25.1	280	274.9	300
6	0.1401	37	34.1	262	264.9	299
7	0.2140	60	53.1	240	246.9	300
8	0.2895	74	75.2	225	223.8	299
9	0.4113	100	101.8	200	198.2	300
10	0.7257	153	153.4	146	145.6	299

Number of observations = 2,995
Number of groups = 10
Hosmer-Lemeshow chi2(8) = 7.15
Prob > chi2 = 0.5204