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## Results with 95% confidence level

Table S2. Outcomes in all patients during the entire study period, by treatment arm

Outcome	ATLS, N = 44	PTC, N = 130	Standard care, N = 202
<b>30 day mortality</b>			
Yes	2.5 (0, 15)	7.3 (2.9, 13)	13 (7.49, 17)
No	98 (85, 100)	93 (86, 96)	87 (81, 91)
Missing	4 (1, 9)	20 (12, 29)	29 (19, 40)
<b>24 hour mortality</b>			
Yes			0.5 (0, 1.6)
No			99 (98, 99)
Missing	4 (1, 9)	13 (6, 20)	7 (3, 12)
<b>In-hospital mortality</b>			
Yes	2.3 (0, 13.39)	5.4 (2.1, 10)	11 (6.67, 15)
No	98 (86, 100)	95 (90, 98)	90 (85, 93)
Missing	1 (0, 3)		2 (0, 5)
<b>Self-ambulatory at discharge</b>			
Yes	97 (81, 100)	97 (91, 99)	98 (93.35, 99)
No	2.8 (0, 17.91)	3.4 (0.9, 8.11)	2.3 (0.6, 6)
Missing	8 (3, 13.73)	11 (5, 17)	26 (16, 35)
<b>Return to work</b>			
Yes	64 (40.57, 80)	72 (62, 80)	51 (42, 59)
No	36 (18, 57)	28 (18, 36)	49 (39, 56)
Missing	19 (11, 27)	31 (21, 42)	68 (53, 82)
<b>Pulmonary complication</b>			
Yes		0.9 (0, 3.5)	
No		99 (95, 100)	
Missing	11 (5, 18)	21 (13, 30)	35 (24, 46)
<b>Septic complication</b>			
Yes		3.7 (0.9, 8.3)	1.2 (0, 3.7)
No		96 (90, 98)	99 (94, 99)
Missing	11 (5, 18)	22 (13, 31)	34 (23, 45)
<b>Renal failure</b>			
Yes			
No			
Missing	10 (4, 16)	21 (13, 30)	33 (21.57, 43)
<b>Coagulopathy</b>			
Yes	3 (0, 16)		
No	97 (84, 100)		
Missing	11 (5, 18)	22 (14, 32)	33 (21.57, 43)
<b>Need for reexploration or resurgery</b>			
Yes		1.8 (0, 5.6)	1.9 (0, 5.16)
No		98 (93, 99)	98 (94, 99)
Missing	10 (5, 16.51)	20 (12, 28)	43 (31, 55)
<b>Failure of conservative management</b>			
No	94 (79, 100)	98 (92, 99)	99 (95, 99)
Yes	6.5 (0, 20)	1.9 (0, 6.09)	1.3 (0, 4.1)
Missing	13 (7, 20)	23 (14, 32)	46 (33, 58)
<b>EQ-5D mobility at discharge</b>			
I have no problems in walking	80 (58, 91)	88 (77, 93)	62 (54, 69)
I have some problems in walking	10 (2.8, 27.13)	7.9 (3.66, 15)	18 (11, 23)
I am confined to bed	10 (2.8, 25)	4 (1.1, 9.95)	20 (13, 26)
Missing	14 (7.11, 22)	29 (19, 39)	45 (33, 57)
<b>EQ-5D self-care at discharge</b>			
I have no problems with self-care	63 (42, 78.24)	83 (74, 88)	52 (43, 59)
I have some problems bathing or dressing myself	13 (3.1, 27.28)	9.9 (4.95, 16)	27 (19.37, 33)
I am unable to bathe or dress myself	23 (8.05, 39)	6.9 (3, 13)	21 (14, 27)
Missing	14 (7.11, 22)	29 (19, 39)	45 (33, 57)
<b>EQ-5D usual activities at discharge</b>			
I have no problems in performing my usual activities	57 (36.2, 74)	81 (72, 87)	48 (39, 54.34)
I have some problems in performing my usual activities	23 (8.3, 40)	11 (5.13, 17)	36 (29, 43)
I am unable to perform my usual activities	20 (6.75, 37)	7.9 (3.7, 14.71)	16 (9.88, 21)
Missing	14 (7.11, 22)	29 (19, 39)	45 (33, 57)
<b>EQ-5D pain/discomfort at discharge</b>			
I have no pain or discomfort	43 (26, 61.31)	52 (41, 60)	27 (20, 33)
I have moderate pain or discomfort	57 (36.59, 72)	44 (34, 53.16)	36 (28, 43)
I have extreme pain or discomfort		4 (1, 9.38)	36 (27.04, 43)

Missing	14 (7.11, 22)	29 (19, 39)	45 (33, 57)
<b>EQ-5D anxiety/depression at discharge</b>			
I am not anxious or depressed	70 (50, 85)	86 (77.13, 91)	89 (83, 93)
I am moderately anxious or depressed	30 (13, 47)	13 (6.92, 19)	9.6 (5.84, 15)
I am extremely anxious or depressed		1 (0, 4.37)	1.9 (0, 4.7)
Missing	14 (7.11, 22)	29 (19, 39)	45 (33, 57)
<b>EQ-5D mobility at 30 day follow-up</b>			
I have no problems in walking	77 (55.4, 89)	95 (88, 97)	74 (65, 80)
I have some problems in walking	19 (6.39, 38)	3 (0.9, 8.4)	16 (9.25, 22)
I am confined to bed	3.8 (0, 23.3)	2 (0, 6.18)	9.8 (5.6, 16)
Missing	18 (10, 26)	29 (19, 39)	69 (54, 83)
<b>EQ-5D self-care at 30 day follow-up</b>			
I have no problems with self-care	81 (58, 92.79)	94 (85.78, 97)	77 (68, 82)
I have some problems bathing or dressing myself	12 (0, 29.99)	2 (0, 7.22)	13 (7.2, 19)
I am unable to bathe or dress myself	7.7 (0, 24.36)	4 (1, 9.3)	9.8 (5.7, 16)
Missing	18 (10, 26)	29 (19, 39)	69 (54, 83)
<b>EQ-5D usual activities at 30 day follow-up</b>			
I have no problems in performing my usual activities	81 (60, 93)	93 (85, 96)	79 (70, 85)
I have some problems in performing my usual activities	12 (3.4, 31.69)	3 (0.9, 8.5)	14 (8.4, 20)
I am unable to perform my usual activities	7.7 (0, 24.36)	4 (1, 9.3)	7.5 (3.8, 14)
Missing	18 (10, 26)	29 (19, 39)	69 (54, 83)
<b>EQ-5D pain/discomfort at 30 day follow-up</b>			
I have no pain or discomfort	77 (57, 91)	82 (73, 88)	78 (69, 84)
I have moderate pain or discomfort	23 (7.7, 42)	17 (9.3, 24)	20 (13, 26)
I have extreme pain or discomfort		1 (0, 4.3)	1.5 (0, 5.1)
Missing	18 (10, 26)	29 (19, 39)	69 (54, 83)
<b>EQ-5D anxiety/depression at 30 day follow-up</b>			
I am not anxious or depressed	88 (65, 96)	92 (84, 95)	95 (88, 97)
I am moderately anxious or depressed	12 (3.4, 31.69)	6.9 (2.9, 14)	3.8 (1.5, 9)
I am extremely anxious or depressed		1 (0, 4.3)	0.8 (0, 4.3)
Missing	18 (10, 26)	29 (19, 39)	69 (54, 83)
<b>Patient satisfaction</b>			
Very satisfied	74 (57, 86.02)	85 (77, 90)	69 (60, 74)
Somewhat satisfied	21 (8.8, 34)	9.9 (5, 16)	16 (10, 20)
Somewhat dissatisfied	2.6 (0, 13)	1.7 (0, 5.15)	9 (5.1, 14)
Very dissatisfied	2.6 (0, 12.43)	3.3 (0.8, 7.71)	5.1 (2.3, 9.06)
Missing	6 (2, 11)	9 (3, 15)	25 (15, 34)
<b>Number of hospitalizations for this injury</b>			
Missing	13 (7, 20)	19 (11, 27)	36 (25, 47)
<b>EQ-5D health state at discharge</b>			
Missing	60 (50, 60)	80 (79, 79)	50 (4, 50)
Missing	15 (8, 23)	35 (25, 47)	58 (44, 72)
<b>EQ-5D health state at 30 day follow-up</b>			
Missing	88 (80, 100)	100 (99, 99)	80 (9, 90)
Missing	18 (10, 26)	32 (22, 44)	75 (59, 90)
<b>Cost of treatment</b>	5000 (0, 14000)	2000 (1040.14, 2499)	3000 (1000, 8000)
Missing	35 (24, 48)	39 (29, 51.46)	113 (96, 130)

Table S3. Outcomes in all patients before training, by treatment arm

Outcome	ATLS, N = 16	PTC, N = 57	Standard care, N = 41
<b>30 day mortality</b>			
Yes		10 (2.32, 20)	2.6 (0, 14.5)
No		90 (78.57, 96)	97 (81, 100)
Missing	2 (0, 5)	8 (3, 14)	3 (0, 7)
<b>24 hour mortality</b>			
Yes			2.4 (0, 11.05)
No			98 (88, 100)
Missing	2 (0, 5)	5 (1, 9)	
<b>In-hospital mortality</b>			
Yes		7 (1.9, 16)	4.9 (0, 17)
No		93 (81.7, 97)	95 (81, 98)
Missing			
<b>Self-ambulatory at discharge</b>			
Yes	92 (55.29, 100)	96 (84, 98)	95 (78.8, 100)
No	8.3 (0, 42.23)	4.1 (0, 13.82)	5.1 (0, 17)
Missing	4 (1, 8)	8 (3, 13.13)	2 (0, 5)
<b>Return to work</b>			
Yes	83 (0, 100)	74 (58, 85)	41 (23, 58)
No	17 (0, 70.86)	26 (12, 39)	59 (37.73, 75)
Missing	10 (4, 16)	15 (8, 22)	12 (6, 19)
<b>Pulmonary complication</b>			
Yes		2.2 (0, 11.73)	
No		98 (88, 100)	
Missing	6 (2, 11)	11 (5, 18)	2 (0, 5)
<b>Septic complication</b>			
Yes		4.4 (0, 14)	2.5 (0, 16.45)
No		96 (85.26, 100)	98 (83, 100)
Missing	6 (2, 11)	12 (6, 19)	1 (0, 3)
<b>Renal failure</b>			
Yes			
No			
Missing	5 (1, 10)	11 (5, 18)	1 (0, 3)
<b>Coagulopathy</b>			
Yes			
No			
Missing	6 (2, 11)	12 (6, 19)	1 (0, 3)
<b>Need for reexploration or resurgery</b>			
Yes		2.1 (0, 11.23)	
No		98 (86, 100)	
Missing	4 (1, 8)	10 (4, 16)	1 (0, 3)
<b>Failure of conservative management</b>			
No		98 (85, 100)	
Yes		2.2 (0, 14.13)	
Missing	10 (4, 16)	11 (5, 17)	2 (0, 5)
<b>EQ-5D mobility at discharge</b>			
I have no problems in walking	67 (30.53, 89)	83 (66.74, 92)	62 (44, 75)
I have some problems in walking	8.3 (0, 36.88)	12 (2.6, 24)	18 (7.1, 31.39)
I am confined to bed	25 (0, 56)	4.9 (0, 16.18)	21 (9.3, 35)
Missing	4 (1, 8)	16 (8, 24)	2 (0, 5)
<b>EQ-5D self-care at discharge</b>			
I have no problems with self-care	58 (25, 87.2)	80 (64, 90)	59 (41, 73.74)
I have some problems bathing or dressing myself	17 (0, 50)	12 (2.97, 24)	15 (4.97, 27.42)
I am unable to bathe or dress myself	25 (0, 56)	7.3 (2.2, 20)	26 (13, 40)
Missing	4 (1, 8)	16 (8, 24)	2 (0, 5)
<b>EQ-5D usual activities at discharge</b>			
I have no problems in performing my usual activities	50 (17, 75)	76 (61, 87)	54 (38, 69)
I have some problems in performing my usual activities	25 (0, 54.17)	15 (5.7, 28)	28 (14, 42)
I am unable to perform my usual activities	25 (0, 56)	9.8 (2.7, 23)	18 (7.1, 32)
Missing	4 (1, 8)	16 (8, 24)	2 (0, 5)
<b>EQ-5D pain/discomfort at discharge</b>			
I have no pain or discomfort	33 (8.3, 63)	34 (20, 50)	33 (19, 48.33)
I have moderate pain or discomfort	67 (30.09, 89)	63 (44.05, 76)	41 (24, 56)
I have extreme pain or discomfort		2.4 (0, 13)	26 (14, 40.01)
Missing	4 (1, 8)	16 (8, 24)	2 (0, 5)
<b>EQ-5D anxiety/depression at discharge</b>			
I am not anxious or depressed	50 (17, 75)	73 (57, 85)	79 (62.02, 89)
I am moderately anxious or depressed	50 (14, 75)	24 (11, 38)	18 (6.97, 32)

I am extremely anxious or depressed		2.4 (0, 13)	2.6 (0, 14)
Missing	4 (1, 8)	16 (8, 24)	2 (0, 5)
<b>EQ-5D mobility at 30 day follow-up</b>			
I have no problems in walking	67 (0, 100)	91 (77.53, 97)	65 (46.25, 81)
I have some problems in walking	17 (0, 70.43)	7 (2.02, 19)	13 (3.12, 27)
I am confined to bed	17 (0, 70.86)	2.3 (0, 13.05)	23 (9.02, 39)
Missing	10 (4, 16)	14 (7, 21)	10 (4, 17)
<b>EQ-5D self-care at 30 day follow-up</b>			
I have no problems with self-care	83 (0.05, 100)	91 (79.35, 97)	71 (53, 85)
I have some problems bathing or dressing myself	17 (0, 70.43)	4.7 (0, 16)	6.5 (0, 31.44)
I am unable to bathe or dress myself		4.7 (0, 15.32)	23 (11, 40)
Missing	10 (4, 16)	14 (7, 21)	10 (4, 17)
<b>EQ-5D usual activities at 30 day follow-up</b>			
I have no problems in performing my usual activities		91 (79.35, 97)	71 (52.15, 85)
I have some problems in performing my usual activities		4.7 (0, 16)	19 (6.7, 35)
I am unable to perform my usual activities		4.7 (0, 15.32)	9.7 (2.46, 25.76)
Missing	10 (4, 16)	14 (7, 21)	10 (4, 17)
<b>EQ-5D pain/discomfort at 30 day follow-up</b>			
I have no pain or discomfort	67 (0, 100)	77 (61.95, 88)	74 (52.26, 85)
I have moderate pain or discomfort	33 (0, 75)	21 (8.6, 33)	26 (12, 44.69)
I have extreme pain or discomfort		2.3 (0, 12.93)	
Missing	10 (4, 16)	14 (7, 21)	10 (4, 17)
<b>EQ-5D anxiety/depression at 30 day follow-up</b>			
I am not anxious or depressed		86 (71.41, 94)	97 (81, 100)
I am moderately anxious or depressed		12 (2.9, 24.57)	3.2 (0, 18.59)
I am extremely anxious or depressed		2.3 (0, 12.93)	
Missing	10 (4, 16)	14 (7, 21)	10 (4, 17)
<b>Patient satisfaction</b>			
Very satisfied	64 (33.23, 87)	73 (60, 83)	67 (49, 79)
Somewhat satisfied	36 (11, 63)	16 (6.66, 27)	23 (11, 35.02)
Somewhat dissatisfied		3.9 (0, 13)	7.7 (2.2, 21)
Very dissatisfied		7.8 (2.1, 18.06)	2.6 (0, 17)
Missing	2 (0, 5)	6 (2, 11)	2 (0, 5)
<b>Number of hospitalizations for this injury</b>			
Missing	10 (4, 16)	8 (3, 14)	2 (0, 5)
<b>EQ-5D health state at discharge</b>	60 (40, 81.8)	80 (60, 80)	50 (3, 80)
Missing	5 (1, 10)	16 (8, 24)	10 (4, 17)
<b>EQ-5D health state at 30 day follow-up</b>	100 (55, 100)	100 (90, 100)	10 (8, 100)
Missing	10 (4, 16)	15 (8.11, 23)	14 (8, 22)
<b>Cost of treatment</b>	7000 (0, 14000)	2025 (600, 6000)	14000 (500, 35000)
Missing	14 (7, 22)	18 (11, 26)	23 (14.12, 33)

Table S4. Outcomes in all patients after training, by treatment arm

Outcome	ATLS, N = 28	PTC, N = 73	Standard care, N = 161
<b>30 day mortality</b>			
Yes	3.8 (0, 20.98)	4.9 (0, 13)	16 (9.28, 21)
No	96 (78, 100)	95 (84, 98)	84 (77, 89)
Missing	2 (0, 5)	12 (6, 19)	26 (17, 36)
<b>24 hour mortality</b>			
Yes			
No			
Missing	2 (0, 5)	8 (3, 14)	7 (3, 12)
<b>In-hospital mortality</b>			
Yes	3.7 (0, 20.68)	4.1 (0, 11)	12 (6.43, 16)
No	96 (79, 100)	96 (87.42, 99)	88 (81, 91)
Missing	1 (0, 3)		2 (0, 5)
<b>Self-ambulatory at discharge</b>			
Yes		97 (86, 99)	99 (94, 100)
No		2.9 (0, 9.08)	1.5 (0, 5.59)
Missing	4 (1, 8)	3 (0, 7)	24 (14, 32.64)
<b>Return to work</b>			
Yes	58 (33, 78)	70 (55, 80)	53 (43, 61.06)
No	42 (21, 66.95)	30 (18, 42.29)	47 (36, 56)
Missing	9 (4, 15)	16 (9, 24)	56 (43, 69.34)
<b>Pulmonary complication</b>			
Yes			
No			
Missing	5 (1, 9)	10 (5, 17)	33 (22, 43)
<b>Septic complication</b>			
Yes		3.2 (0, 11)	0.8 (0, 4)
No		97 (88, 100)	99 (96, 99)
Missing	5 (1, 9)	10 (5, 17)	33 (22, 43)
<b>Renal failure</b>			
Yes			
No			
Missing	5 (1, 9)	10 (5, 17)	32 (21, 42)
<b>Coagulopathy</b>			
Yes	4.3 (0, 22.71)		
No	96 (77, 100)		
Missing	5 (1, 9)	10 (5, 17)	32 (21, 42)
<b>Need for reexploration or resurgery</b>			
Yes		1.6 (0, 9.21)	2.5 (0, 7)
No		98 (90, 100)	97 (92, 98)
Missing	6 (2, 11)	10 (5, 17)	42 (30.18, 54)
<b>Failure of conservative management</b>			
No	92 (71, 100)	98 (90, 100)	98 (93, 99)
Yes	8 (0, 24.44)	1.6 (0, 7.99)	1.7 (0, 5.8)
Missing	3 (0, 6)	12 (6, 19.14)	44 (32, 56)
<b>EQ-5D mobility at discharge</b>			
I have no problems in walking	89 (60, 100)	92 (80.1, 97)	62 (52, 70)
I have some problems in walking	11 (0, 33)	5 (1.5, 13.83)	19 (12, 27)
I am confined to bed		3.3 (0, 11)	19 (11, 26)
Missing	10 (4, 17)	13 (6, 21)	43 (30.04, 54)
<b>EQ-5D self-care at discharge</b>			
I have no problems with self-care	67 (34.68, 87)	85 (72, 92)	50 (40, 58)
I have some problems bathing or dressing myself	11 (0, 33.5)	8.3 (2.56, 17.71)	31 (22, 39)
I am unable to bathe or dress myself	22 (4.52, 44)	6.7 (1.76, 16)	19 (11, 25)
Missing	10 (4, 17)	13 (6, 21)	43 (30.04, 54)
<b>EQ-5D usual activities at discharge</b>			
I have no problems in performing my usual activities	61 (33, 82.01)	85 (72, 92)	47 (38, 56)
I have some problems in performing my usual activities	22 (5.6, 50)	8.3 (2.56, 17.71)	38 (28, 45)
I am unable to perform my usual activities	17 (0, 39.02)	6.7 (1.76, 16)	15 (8.29, 21)
Missing	10 (4, 17)	13 (6, 21)	43 (30.04, 54)
<b>EQ-5D pain/discomfort at discharge</b>			
I have no pain or discomfort	50 (25, 71)	65 (52, 76)	25 (16.01, 32)
I have moderate pain or discomfort	50 (22, 69)	30 (18, 41)	35 (27, 44)
I have extreme pain or discomfort		5 (1.5, 14)	40 (31, 48)
Missing	10 (4, 17)	13 (6, 21)	43 (30.04, 54)
<b>EQ-5D anxiety/depression at discharge</b>			
I am not anxious or depressed	83 (57, 95.75)	95 (84.84, 98)	92 (85, 96)
I am moderately anxious or depressed	17 (0, 41)	5 (0.6, 13)	6.8 (3.4, 13)

I am extremely anxious or depressed			1.7 (0, 5.3)
Missing	10 (4, 17)	13 (6, 21)	43 (30.04, 54)
<b>EQ-5D mobility at 30 day follow-up</b>			
I have no problems in walking	80 (53, 93.32)	98 (90, 100)	77 (67, 83.81)
I have some problems in walking	20 (5.9, 44)		17 (9.4, 24)
I am confined to bed		1.7 (0, 8.79)	5.9 (2.1, 12)
Missing	8 (3, 14)	15 (8, 23)	59 (46, 72.14)
<b>EQ-5D self-care at 30 day follow-up</b>			
I have no problems with self-care	80 (56, 94)	97 (88, 100)	79 (68.15, 85)
I have some problems bathing or dressing myself	10 (0, 31)		15 (8.23, 23)
I am unable to bathe or dress myself	10 (0, 31.74)	3.4 (0, 12)	5.9 (2.13, 12)
Missing	8 (3, 14)	15 (8, 23)	59 (46, 72.14)
<b>EQ-5D usual activities at 30 day follow-up</b>			
I have no problems in performing my usual activities	75 (50, 91)	95 (83.7, 98)	81 (70, 87)
I have some problems in performing my usual activities	15 (4.2, 38)	1.7 (0, 7.68)	12 (6.3, 19)
I am unable to perform my usual activities	10 (0, 31.74)	3.4 (0, 12)	6.9 (2.9, 13)
Missing	8 (3, 14)	15 (8, 23)	59 (46, 72.14)
<b>EQ-5D pain/discomfort at 30 day follow-up</b>			
I have no pain or discomfort	80 (56.42, 94)	86 (73, 93)	79 (69, 85)
I have moderate pain or discomfort	20 (5.3, 41.4)	14 (5.3, 23.93)	19 (11, 27)
I have extreme pain or discomfort			2 (0, 8.07)
Missing	8 (3, 14)	15 (8, 23)	59 (46, 72.14)
<b>EQ-5D anxiety/depression at 30 day follow-up</b>			
I am not anxious or depressed	85 (60.19, 95)	97 (88.33, 100)	95 (87, 97)
I am moderately anxious or depressed	15 (4.2, 38)	3.4 (0, 11)	3.9 (1, 9.9)
I am extremely anxious or depressed			1 (0, 4.95)
Missing	8 (3, 14)	15 (8, 23)	59 (46, 72.14)
<b>Patient satisfaction</b>			
Very satisfied	79 (57, 93)	94 (83, 97)	70 (61, 76)
Somewhat satisfied	13 (3.29, 32)	5.7 (1.5, 13)	14 (8.04, 19)
Somewhat dissatisfied	4.2 (0, 20.59)		9.4 (5.58, 16)
Very dissatisfied	4.2 (0, 20.74)		5.8 (2.2, 10)
Missing	4 (1, 8)	3 (0, 7)	23 (13, 31)
<b>Number of hospitalizations for this injury</b>			
Missing	3 (0, 6)	11 (5, 18)	34 (23.34, 46)
<b>EQ-5D health state at discharge</b>			
Missing	65 (50, 80)	90 (80, 90)	50 (4, 50)
Missing	10 (4, 17)	19 (11, 28)	48 (35, 61)
<b>EQ-5D health state at 30 day follow-up</b>			
Missing	83 (70, 100)		83 (10, 100)
Missing	8 (3, 14)	17 (9, 25.63)	61 (47, 74)
<b>Cost of treatment</b>			
Missing	5000 (0, 15000)	1500 (250, 1600)	2500 (1000, 8000)
Missing	21 (12, 30)	21 (12.87, 30)	90 (74, 106)

**Table S5. Absolute change from baseline for all outcomes, comparing the period after training with the period before training, by treatment arms**

Outcome	ATLS, N = 28	PTC, N = 73	Standard care, N = 161
<b>30 day mortality</b>			
Yes	3.8 (0, 20.98)	-5.1 (-16.57, 4.76)	13.4 (3, 20)
No	-4 (-22, 0)	5 (-6, 14)	-13 (-20, -3)
Missing	0 (-4.9, 3)	4 (-5, 12)	23 (14, 34)
<b>24 hour mortality</b>			
Yes			-2.4 (-12, 0)
No			2 (0, 7)
Missing	0 (-4.9, 3)	3 (-4, 10)	7 (3, 12)
<b>In-hospital mortality</b>			
Yes	3.7 (0, 20.68)	-2.9 (-12.79, 4.2)	7.1 (-4, 13.3)
No	-4 (-21, 0)	3 (-5, 11)	-7 (-14, 2)
Missing	1 (0, 3)		2 (0, 5)
<b>Self-ambulatory at discharge</b>			
Yes	8 (0, 37)	1 (-6, 8)	4 (-2, 14)
No	-8.3 (-44.67, 0)	-1.2 (-9.5, 4.8)	-3.6 (-14.56, 1.5)
Missing	0 (-7, 4)	-5 (-13.26, 0)	22 (12, 30)
<b>Return to work</b>			
Yes	-25 (-56, 21)	-4 (-24, 12)	12 (-10, 30)
No	25 (-27.41, 55)	4 (-15, 21)	-12 (-35, 7)
Missing	-1 (-11, 6)	1 (-10.1, 11)	44 (29, 58)
<b>Pulmonary complication</b>			
Yes		-2.2 (-12, 0)	
No		2 (0, 7)	
Missing	-1 (-9, 4)	-1 (-11, 7)	31 (19, 41)
<b>Septic complication</b>			
Yes		-1.2 (-10.31, 5.5)	-1.7 (-11.72, 1.6)
No		1 (-6, 8.2)	1 (-2, 7)
Missing	-1 (-9, 4)	-2 (-12, 6)	32 (21, 42)
<b>Renal failure</b>			
Yes			
No			
Missing	0 (-7, 5)	-1 (-11, 7)	31 (20, 41)
<b>Coagulopathy</b>			
Yes	4.3 (0, 22.71)		
No	-4 (-23, 0)		
Missing	-1 (-9, 4)	-2 (-12, 5)	31 (20, 41)
<b>Need for reexploration or resurgery</b>			
Yes		-0.5 (-8.44, 3.3)	2.5 (0, 7)
No		0 (-5.44, 4)	-3 (-8, -2)
Missing	2 (-5, 7)	0 (-9, 8)	41 (29, 54)
<b>Failure of conservative management</b>			
No	-8 (-29, 0)	0 (-6.06, 4)	-2 (-7, -1)
Yes	8 (0, 24.45)	-0.6 (-9.45, 3.2)	1.7 (0, 5.8)
Missing	-7 (-16.47, -2)	1 (-8, 10)	42 (29, 54)
<b>EQ-5D mobility at discharge</b>			
I have no problems in walking	22 (-12, 56)	9 (-5, 23)	0 (-17, 19.83)
I have some problems in walking	2.7 (-23.17, 20)	-7 (-19.12, 4.99)	1 (-16.13, 14)
I am confined to bed	-25 (-60.74, -7.1)	-1.6 (-11.5, 5.8)	-2 (-22, 10)
Missing	6 (-2, 12)	-3 (-14, 7)	41 (29, 53)
<b>EQ-5D self-care at discharge</b>			
I have no problems with self-care	9 (-31.87, 47.44)	5 (-11, 20)	-9 (-27, 8)
I have some problems bathing or dressing myself	-6 (-39.79, 15)	-3.7 (-16.9, 8.16)	16 (0, 29.13)
I am unable to bathe or dress myself	-3 (-42.58, 26.36)	-0.6 (-11.51, 10)	-7 (-25.46, 6)
Missing	6 (-2, 12)	-3 (-14, 7)	41 (29, 53)
<b>EQ-5D usual activities at discharge</b>			
I have no problems in performing my usual activities	11 (-30.58, 46)	9 (-9, 23.11)	-7 (-26, 11)
I have some problems in performing my usual activities	-3 (-37, 28.8)	-6.7 (-21.53, 4.5)	10 (-7.49, 26)
I am unable to perform my usual activities	-8 (-43, 21)	-3.1 (-15.5, 7.7)	-3 (-20, 8.18)
Missing	6 (-2, 12)	-3 (-14, 7)	41 (29, 53)
<b>EQ-5D pain/discomfort at discharge</b>			
I have no pain or discomfort	17 (-23, 51)	31 (9, 47)	-8 (-26.97, 6)
I have moderate pain or discomfort	-17 (-52, 20)	-33 (-52.63, -12)	-6 (-24, 13)
I have extreme pain or discomfort		2.6 (-4.7, 9.7)	14 (-6.34, 27)
Missing	6 (-2, 12)	-3 (-14, 7)	41 (29, 53)
<b>EQ-5D anxiety/depression at discharge</b>			
I am not anxious or depressed	33 (-5.81, 64)	22 (7, 37)	13 (0, 29)



I am moderately anxious or depressed	-33 (-67, 3)	-19 (-35.39, -5.8)	-11.2 (-27.48, 0.4)
I am extremely anxious or depressed		-2.4 (-17, 0)	-0.9 (-10.47, 2.5)
Missing	6 (-2, 12)	-3 (-14, 7)	41 (29, 53)
<b>EQ-5D mobility at 30 day follow-up</b>			
I have no problems in walking	13 (-29.15, 61)	7 (-2, 17)	12 (-9, 30)
I have some problems in walking	3 (-50, 29)	-7 (-19.34, -2.1)	4 (-14, 15)
I am confined to bed	-17 (-100, 0)	-0.6 (-8.96, 3.82)	-17.1 (-36.1, -3.84)
Missing	-2 (-12, 5)	1 (-10, 11)	49 (34, 63)
<b>EQ-5D self-care at 30 day follow-up</b>			
I have no problems with self-care	-3 (-28.6, 53)	6 (-4, 16)	8 (-11, 26)
I have some problems bathing or dressing myself	-7 (-64.7, 16.07)	-4.7 (-17.2, 0)	8.5 (-5, 18)
I am unable to bathe or dress myself	10 (0, 31.59)	-1.3 (-10.45, 5.7)	-17.1 (-35.9, -4.9)
Missing	-2 (-12, 5)	1 (-10, 11)	49 (34, 63)
<b>EQ-5D usual activities at 30 day follow-up</b>			
I have no problems in performing my usual activities	-25 (-50, -9)	4 (-8, 13)	10 (-8.1, 28.5)
I have some problems in performing my usual activities	15 (4.2, 38)	-3 (-14, 2.1)	-7 (-24.6, 6)
I am unable to perform my usual activities	10 (0, 31.59)	-1.3 (-10.45, 5.7)	-2.8 (-17.58, 6.4)
Missing	-2 (-12, 5)	1 (-10, 11)	49 (34, 63)
<b>EQ-5D pain/discomfort at 30 day follow-up</b>			
I have no pain or discomfort	13 (-30, 62)	9 (-8, 23)	5 (-10, 23)
I have moderate pain or discomfort	-13 (-65, 28)	-7 (-23.4, 8)	-7 (-27, 7)
I have extreme pain or discomfort		-2.3 (-16, 0)	2 (0, 8.07)
Missing	-2 (-12, 5)	1 (-10, 11)	49 (34, 63)
<b>EQ-5D anxiety/depression at 30 day follow-up</b>			
I am not anxious or depressed	-15 (-39.72, -5)	11 (0, 24)	-2 (-8, 8)
I am moderately anxious or depressed	15 (4.2, 38)	-8.6 (-22, 1.02)	0.7 (-13.46, 5.3)
I am extremely anxious or depressed		-2.3 (-16, 0)	1 (0, 4.95)
Missing	-2 (-12, 5)	1 (-10, 11)	49 (34, 63)
<b>Patient satisfaction</b>			
Very satisfied	15 (-15, 45)	21 (8, 32)	3 (-14, 19)
Somewhat satisfied	-23 (-54, 4)	-10.3 (-22.87, 0)	-9 (-25.8, 3)
Somewhat dissatisfied	4.2 (0, 20.59)	-3.9 (-13, 0)	1.7 (-11.7, 9.2)
Very dissatisfied	4.2 (0, 20.74)	-7.8 (-20, -2.28)	3.2 (-8, 7.6)
Missing	2 (-3, 6)	-3 (-10, 2)	21 (11, 30)
<b>Number of hospitalizations for this injury</b>			
Missing	0 (-1, 0)		
	-7 (-16.47, -2)	3 (-6, 12)	32 (21, 44)
<b>EQ-5D health state at discharge</b>			
	5 (-30, 30)	10 (-10, 10)	0 (-68.09, 55)
Missing	5 (-3.48, 11)	3 (-9, 14)	38 (22, 52)
<b>EQ-5D health state at 30 day follow-up</b>			
	-17 (-33.16, 20)		73 (-13, 92)
Missing	-2 (-12, 5)	2 (-10, 12)	47 (30, 61.57)
<b>Cost of treatment</b>			
	-2000 (-14000, 13000)	-525 (-4922.65, 1000)	-11500 (-49000, 2250)
Missing	7 (-7, 17)	3 (-10, 14)	67 (45.64, 86)

Table S6. Relative change from baseline for all outcomes, comparing the period after training with the period before training, by treatment arms

Outcome	ATLS, N = 28	PTC, N = 73	Standard care, N = 161
<b>30 day mortality</b>			
Yes		0.49 (0, 2.31)	6.15 (2.62, 10.91)
No	0.96 (0.78, 1)	1.06 (0.95, 1.2)	0.87 (0.8, 0.97)
Missing	1 (0, 4)	1.5 (0.56, 4)	8.67 (2.89, 27.17)
<b>24 hour mortality</b>			
Yes			
No			1.02 (1, 1.08)
Missing	1 (0, 4)	1.6 (0.5, 6)	
<b>In-hospital mortality</b>			
Yes		0.59 (0, 2.89)	2.45 (0.77, 6.19)
No	0.96 (0.79, 1)	1.03 (0.95, 1.15)	0.93 (0.86, 1.03)
Missing			
<b>Self-ambulatory at discharge</b>			
Yes	1.09 (1, 1.59)	1.01 (0.95, 1.1)	1.04 (0.98, 1.17)
No		0.71 (0, 4)	0.29 (0, 1.52)
Missing	1 (0, 3.5)	0.38 (0, 1.57)	12 (3.73, 29)
<b>Return to work</b>			
Yes	0.7 (0.41, 1.42)	0.95 (0.73, 1.2)	1.29 (0.85, 2.24)
No	2.47 (1.11, 7.14)	1.15 (0.61, 2.48)	0.8 (0.55, 1.2)
Missing	0.9 (0.29, 2.25)	1.07 (0.5, 2.25)	4.67 (2.52, 9)
<b>Pulmonary complication</b>			
Yes			
No		1.02 (1, 1.08)	
Missing	0.83 (0.14, 2.67)	0.91 (0.36, 2.5)	16.5 (5.11, 39)
<b>Septic complication</b>			
Yes		0.73 (0, 3.81)	0.32 (0, 1.62)
No		1.01 (0.94, 1.1)	1.01 (0.98, 1.08)
Missing	0.83 (0.14, 2.67)	0.83 (0.33, 2)	33 (12.33, 44.32)
<b>Renal failure</b>			
Yes			
No			
Missing	1 (0.11, 3)	0.91 (0.36, 2.5)	32 (11.5, 42)
<b>Coagulopathy</b>			
Yes			
No	0.96 (0.77, 1)		
Missing	0.83 (0.14, 2.67)	0.83 (0.33, 2.07)	32 (11.5, 42)
<b>Need for reexploration or resurgery</b>			
Yes		0.76 (0, 4.47)	
No		1 (0.95, 1.04)	0.97 (0.92, 0.98)
Missing	1.5 (0.26, 6)	1 (0.36, 2.5)	42 (16.32, 55.43)
<b>Failure of conservative management</b>			
No	0.92 (0.71, 1)	1 (0.94, 1.04)	0.98 (0.93, 0.99)
Yes		0.73 (0, 4.65)	
Missing	0.3 (0, 1.21)	1.09 (0.47, 2.6)	22 (6.82, 51)
<b>EQ-5D mobility at discharge</b>			
I have no problems in walking	1.33 (0.88, 2.47)	1.11 (0.96, 1.33)	1 (0.77, 1.42)
I have some problems in walking	1.33 (0.27, 5.5)	0.42 (0, 2.49)	1.06 (0.48, 3.01)
I am confined to bed		0.67 (0, 4.06)	0.9 (0.42, 1.87)
Missing	2.5 (0.62, 8)	0.81 (0.37, 1.85)	21.5 (7.3, 50)
<b>EQ-5D self-care at discharge</b>			
I have no problems with self-care	1.16 (0.63, 2.62)	1.06 (0.88, 1.31)	0.85 (0.62, 1.22)
I have some problems bathing or dressing myself	0.65 (0, 3.36)	0.69 (0.14, 2.77)	2.07 (1, 6.19)
I am unable to bathe or dress myself	0.88 (0.09, 3.72)	0.92 (0.18, 4.6)	0.73 (0.37, 1.38)
Missing	2.5 (0.62, 8)	0.81 (0.37, 1.85)	21.5 (7.3, 50)
<b>EQ-5D usual activities at discharge</b>			
I have no problems in performing my usual activities	1.22 (0.58, 2.89)	1.12 (0.93, 1.37)	0.87 (0.63, 1.31)
I have some problems in performing my usual activities	0.88 (0.17, 3.75)	0.55 (0.11, 1.75)	1.36 (0.86, 2.72)
I am unable to perform my usual activities	0.68 (0, 3.3)	0.68 (0.12, 3.59)	0.83 (0.38, 2.01)
Missing	2.5 (0.62, 8)	0.81 (0.37, 1.85)	21.5 (7.3, 50)
<b>EQ-5D pain/discomfort at discharge</b>			
I have no pain or discomfort	1.52 (0.6, 4.73)	1.91 (1.2, 3.22)	0.76 (0.45, 1.36)
I have moderate pain or discomfort	0.75 (0.35, 1.49)	0.48 (0.28, 0.77)	0.85 (0.57, 1.54)
I have extreme pain or discomfort		2.08 (0.65, 6.54)	1.54 (0.87, 2.73)
Missing	2.5 (0.62, 8)	0.81 (0.37, 1.85)	21.5 (7.3, 50)
<b>EQ-5D anxiety/depression at discharge</b>			
I am not anxious or depressed	1.66 (0.94, 3.8)	1.3 (1.1, 1.65)	1.16 (1.01, 1.51)

I am moderately anxious or depressed	0.34 (0, 1.29)	0.21 (0, 0.75)	0.38 (0.13, 1.23)
I am extremely anxious or depressed			0.65 (0.14, 2.38)
Missing	2.5 (0.62, 8)	0.81 (0.37, 1.85)	21.5 (7.3, 50)
<b>EQ-5D mobility at 30 day follow-up</b>			
I have no problems in walking	1.19 (0.7, 3.16)	1.08 (0.99, 1.22)	1.18 (0.9, 1.62)
I have some problems in walking	1.18 (0.42, 4)		1.31 (0.5, 4.52)
I am confined to bed		0.74 (0, 4.24)	0.26 (0.07, 0.87)
Missing	0.8 (0.23, 2)	1.07 (0.5, 2.25)	5.9 (3.16, 12.8)
<b>EQ-5D self-care at 30 day follow-up</b>			
I have no problems with self-care	0.96 (0.71, 2.58)	1.07 (0.97, 1.21)	1.11 (0.89, 1.47)
I have some problems bathing or dressing myself	0.59 (0.12, 3.12)		2.31 (0.72, 6.54)
I am unable to bathe or dress myself		0.72 (0, 4)	0.26 (0.08, 0.77)
Missing	0.8 (0.23, 2)	1.07 (0.5, 2.25)	5.9 (3.16, 12.8)
<b>EQ-5D usual activities at 30 day follow-up</b>			
I have no problems in performing my usual activities	0.75 (0.5, 0.91)	1.04 (0.93, 1.18)	1.14 (0.91, 1.53)
I have some problems in performing my usual activities		0.36 (0, 3.19)	0.63 (0.28, 1.97)
I am unable to perform my usual activities		0.72 (0, 4)	0.71 (0.17, 2.61)
Missing	0.8 (0.23, 2)	1.07 (0.5, 2.25)	5.9 (3.16, 12.8)
<b>EQ-5D pain/discomfort at 30 day follow-up</b>			
I have no pain or discomfort	1.19 (0.71, 3.32)	1.12 (0.92, 1.37)	1.07 (0.89, 1.42)
I have moderate pain or discomfort	0.61 (0.16, 2.41)	0.67 (0.23, 1.91)	0.73 (0.34, 1.53)
I have extreme pain or discomfort			
Missing	0.8 (0.23, 2)	1.07 (0.5, 2.25)	5.9 (3.16, 12.8)
<b>EQ-5D anxiety/depression at 30 day follow-up</b>			
I am not anxious or depressed	0.85 (0.6, 0.95)	1.13 (1.02, 1.35)	0.98 (0.92, 1.09)
I am moderately anxious or depressed		0.28 (0, 1.71)	1.22 (0.37, 3.33)
I am extremely anxious or depressed			
Missing	0.8 (0.23, 2)	1.07 (0.5, 2.25)	5.9 (3.16, 12.8)
<b>Patient satisfaction</b>			
Very satisfied	1.23 (0.84, 2.13)	1.29 (1.09, 1.52)	1.04 (0.83, 1.36)
Somewhat satisfied	0.36 (0, 1.64)	0.36 (0.07, 1.12)	0.61 (0.29, 1.23)
Somewhat dissatisfied			1.22 (0.38, 3.91)
Very dissatisfied			2.23 (0.78, 4.78)
Missing	2 (0.19, 7)	0.5 (0, 2)	11.5 (3.67, 28)
<b>Number of hospitalizations for this injury</b>			
Missing	0.3 (0, 1.21)	1.38 (0.5, 3.64)	17 (5.33, 41)
<b>EQ-5D health state at discharge</b>			
Missing	1.08 (0.67, 1.75)	1.12 (0.89, 1.12)	1 (0.08, 15)
Missing	2 (0.5, 6)	1.19 (0.6, 2.45)	4.8 (2.38, 11)
<b>EQ-5D health state at 30 day follow-up</b>			
Missing	0.83 (0.67, 1.33)		8.3 (0.74, 11.14)
Missing	0.8 (0.23, 2)	1.13 (0.53, 2.27)	4.36 (2.43, 7.75)
<b>Cost of treatment</b>			
Missing	0.71 (0.14, 5)	0.74 (0.2, 2.69)	0.18 (0.04, 4)
Missing	1.5 (0.66, 2.75)	1.17 (0.6, 2.22)	3.91 (2.37, 6.04)

Table S7. Absolute and relative differences in outcomes after training, comparing standard care with ATLS

Outcome	Absolute difference	Relative difference
<b>30 day mortality</b>		
Yes	12.2 (-8.05, 23.3)	4.21 (1.36, 15.71)
No	-12 (-23, 6)	0.88 (0.75, 1.1)
Missing	24 (15.57, 39)	13 (5.33, 40)
<b>24 hour mortality</b>		
Yes		
No		
Missing	5 (0, 13)	3.5 (1.6, 14)
<b>In-hospital mortality</b>		
Yes	8.3 (-5.9, 18)	3.24 (0.63, 13.64)
No	-8 (-18, 5)	0.92 (0.82, 1.07)
Missing	1 (-3.52, 5)	2 (0.5, 5)
<b>Self-ambulatory at discharge</b>		
Yes	-1 (-9, 2)	0.99 (0.93, 1.03)
No	1.5 (-2.2, 8.92)	
Missing	20 (-23, 35)	6 (0.1, 33)
<b>Return to work</b>		
Yes	-5 (-30, 29)	0.91 (0.6, 1.64)
No	5 (-30, 30)	1.12 (0.44, 2.41)
Missing	47 (30, 63)	6.22 (4.55, 53)
<b>Pulmonary complication</b>		
Yes		
No		
Missing	28 (5, 49)	6.6 (4.33, 43)
<b>Septic complication</b>		
Yes	0.8 (-4.5, 8.26)	
No	-1 (-11, 2)	0.99 (0.9, 1.03)
Missing	28 (1, 50)	6.6 (4.25, 43)
<b>Renal failure</b>		
Yes		
No		
Missing	27 (4, 48)	6.4 (4.11, 42)
<b>Coagulopathy</b>		
Yes	-4.3 (-16, 0)	
No	4 (0, 16)	1.04 (1, 1.19)
Missing	27 (4, 48)	6.4 (4.11, 42)
<b>Need for reexploration or resurgery</b>		
Yes	2.5 (0, 7.8)	
No	-3 (-8, -2)	0.97 (0.92, 0.98)
Missing	36 (-3.47, 56)	7 (4.22, 48)
<b>Failure of conservative management</b>		
No	6 (2, 26)	1.07 (1.02, 1.36)
Yes	-6.3 (-26, -2.4)	0.21 (0, 2.28)
Missing	41 (30, 56)	14.67 (8.42, 55)
<b>EQ-5D mobility at discharge</b>		
I have no problems in walking	-27 (-44, 31)	0.7 (0.55, 1.52)
I have some problems in walking	8 (-18.1, 23.91)	1.73 (0.08, 12.79)
I am confined to bed	19 (1.6, 30)	
Missing	33 (-23, 50)	4.3 (2.38, 20.5)
<b>EQ-5D self-care at discharge</b>		
I have no problems with self-care	-17 (-46.52, 43)	0.75 (0.48, 1.93)
I have some problems bathing or dressing myself	20 (-24.9, 36.87)	2.82 (0.2, 20.26)
I am unable to bathe or dress myself	-3 (-26.15, 19.7)	0.86 (0.07, 7.29)
Missing	33 (-23, 50)	4.3 (2.38, 20.5)
<b>EQ-5D usual activities at discharge</b>		
I have no problems in performing my usual activities	-14 (-49, 47)	0.77 (0.45, 2.14)
I have some problems in performing my usual activities	16 (-36.56, 39.71)	1.73 (0.1, 12.04)
I am unable to perform my usual activities	-2 (-24.06, 14.32)	0.88 (0, 5.17)
Missing	33 (-23, 50)	4.3 (2.38, 20.5)
<b>EQ-5D pain/discomfort at discharge</b>		
I have no pain or discomfort	-25 (-52, 49)	0.5 (0.25, 3.07)
I have moderate pain or discomfort	-15 (-49, -3)	0.7 (0.26, 1.03)
I have extreme pain or discomfort	40 (29.7, 55)	
Missing	33 (-23, 50)	4.3 (2.38, 20.5)
<b>EQ-5D anxiety/depression at discharge</b>		
I am not anxious or depressed	9 (2, 36)	1.11 (1.03, 1.68)

I am moderately anxious or depressed	-10.2 (-39.9, -3.9)	0.4 (0, 1.24)
I am extremely anxious or depressed	1.7 (-1.5, 6.4)	
Missing	33 (-23, 50)	4.3 (2.38, 20.5)
<b>EQ-5D mobility at 30 day follow-up</b>		
I have no problems in walking	-3 (-28, 30)	0.96 (0.71, 1.43)
I have some problems in walking	-3 (-29, 22)	0.85 (0, 5.21)
I am confined to bed	5.9 (0.97, 15)	
Missing	51 (34, 69)	7.38 (5.4, 53)
<b>EQ-5D self-care at 30 day follow-up</b>		
I have no problems with self-care	-1 (-25, 27)	0.99 (0.74, 1.39)
I have some problems bathing or dressing myself	5 (-20, 22)	1.5 (0.83, 4.17)
I am unable to bathe or dress myself	-4.1 (-29, 1.5)	0.59 (0, 2.6)
Missing	51 (34, 69)	7.38 (5.4, 53)
<b>EQ-5D usual activities at 30 day follow-up</b>		
I have no problems in performing my usual activities	6 (-21, 31)	1.08 (0.79, 1.58)
I have some problems in performing my usual activities	-3 (-20.77, 16.16)	0.8 (0, 11.66)
I am unable to perform my usual activities	-3.1 (-29, 5)	0.69 (0, 3.76)
Missing	51 (34, 69)	7.38 (5.4, 53)
<b>EQ-5D pain/discomfort at 30 day follow-up</b>		
I have no pain or discomfort	-1 (-18, 17)	0.99 (0.8, 1.24)
I have moderate pain or discomfort	-1 (-20, 13)	0.95 (0.25, 2.7)
I have extreme pain or discomfort	2 (-1, 8.8)	
Missing	51 (34, 69)	7.38 (5.4, 53)
<b>EQ-5D anxiety/depression at 30 day follow-up</b>		
I am not anxious or depressed	10 (3, 36)	1.12 (1.03, 1.58)
I am moderately anxious or depressed	-11.1 (-35.8, -2.9)	0.26 (0, 1.11)
I am extremely anxious or depressed	1 (-0.9, 5.1)	
Missing	51 (34, 69)	7.38 (5.4, 53)
<b>Patient satisfaction</b>		
Very satisfied	-9 (-31, 30)	0.89 (0.67, 1.46)
Somewhat satisfied	1 (-15.8, 15.15)	1.08 (0.09, 6.5)
Somewhat dissatisfied	5.2 (-13, 15)	2.24 (1, 4.12)
Very dissatisfied	1.6 (-9.3, 9.53)	1.38 (0.81, 3.95)
Missing	19 (-21, 34.53)	5.75 (0.11, 31.03)
<b>Number of hospitalizations for this injury</b>		
Missing	31 (21, 47)	11.33 (6.8, 48)
<b>EQ-5D health state at discharge</b>		
Missing	-15 (-84, 75.14)	0.77 (0.06, 9.82)
Missing	38 (24, 53)	4.8 (3.23, 23)
<b>EQ-5D health state at 30 day follow-up</b>		
Missing	0 (-60, 50)	1 (0.37, 2)
Missing	53 (40, 73)	7.62 (5.5, 53)
<b>Cost of treatment</b>		
Missing	-2500 (-33500, 250)	0.5 (0, 1.5)
Missing	69 (-68, 98)	4.29 (0.25, 9.3)

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Table S8. Absolute and relative differences in outcomes after training, comparing standard care with PTC

Outcome	Absolute difference	Relative difference
<b>30 day mortality</b>		
Yes	11.1 (-5.3, 22.33)	3.27 (0.61, 18.82)
No	-11 (-22.46, 4)	0.88 (0.78, 1.05)
Missing	14 (-24.07, 32)	2.17 (0, 12)
<b>24 hour mortality</b>		
Yes		
No		
Missing	-1 (-16, 4)	0.88 (0, 3.33)
<b>In-hospital mortality</b>		
Yes	7.9 (-3.66, 16)	2.93 (0.74, 17.86)
No	-8 (-24, 2)	0.92 (0.8, 1.03)
Missing	2 (-1, 6)	
<b>Self-ambulatory at discharge</b>		
Yes	2 (-1, 12)	1.02 (1, 1.14)
No	-1.4 (-12, 0.7)	
Missing	21 (-1, 45)	8 (1.25, 46)
<b>Return to work</b>		
Yes	-17 (-41, -4)	0.76 (0.42, 0.98)
No	17 (1, 41)	1.57 (1.05, 6.48)
Missing	40 (-36, 64)	3.5 (0.18, 12.99)
<b>Pulmonary complication</b>		
Yes		
No		
Missing	23 (-22, 40)	3.3 (0.12, 14.65)
<b>Septic complication</b>		
Yes	-2.4 (-8.7, 0)	
No	2 (0, 9)	1.02 (1, 1.1)
Missing	23 (-20, 41)	3.3 (0.13, 15)
<b>Renal failure</b>		
Yes		
No		
Missing	22 (-20, 39.08)	3.2 (0.13, 14.5)
<b>Coagulopathy</b>		
Yes	0 (-17.31, 4.2)	
No	0 (-17, 0)	1 (0.83, 1)
Missing	22 (-20, 39.08)	3.2 (0.13, 14.5)
<b>Need for reexploration or resurgery</b>		
Yes	0.9 (-5.32, 4.2)	
No	-1 (-5, 4)	0.99 (0.95, 1.04)
Missing	32 (-21.3, 51.96)	4.2 (0.17, 17.75)
<b>Failure of conservative management</b>		
No	0 (-22, 8)	1 (0.77, 1.09)
Yes	0.1 (-8.4, 22)	1.06 (0.26, 17)
Missing	32 (-35.17, 54)	3.67 (0, 20.5)
<b>EQ-5D mobility at discharge</b>		
I have no problems in walking	-30 (-50, -1.99)	0.67 (0.5, 1)
I have some problems in walking	14 (0.84, 33)	3.8 (2.06, 16.11)
I am confined to bed	15.7 (-15.7, 28)	
Missing	30 (-10, 51)	3.31 (0.35, 13.38)
<b>EQ-5D self-care at discharge</b>		
I have no problems with self-care	-35 (-52, -23)	0.59 (0.44, 0.73)
I have some problems bathing or dressing myself	22.7 (0, 41)	3.73 (1.21, 20.62)
I am unable to bathe or dress myself	12.3 (-5.5, 44.8)	2.84 (0.88, 20)
Missing	30 (-10, 51)	3.31 (0.35, 13.38)
<b>EQ-5D usual activities at discharge</b>		
I have no problems in performing my usual activities	-38 (-61, -23)	0.55 (0.35, 0.69)
I have some problems in performing my usual activities	29.7 (17, 46.5)	4.58 (2.2, 26.47)
I am unable to perform my usual activities	8.3 (-6, 33)	2.24 (0.76, 18.12)
Missing	30 (-10, 51)	3.31 (0.35, 13.38)
<b>EQ-5D pain/discomfort at discharge</b>		
I have no pain or discomfort	-40 (-62, -22)	0.38 (0.21, 0.57)
I have moderate pain or discomfort	5 (-16, 45)	1.17 (0.69, 4.46)
I have extreme pain or discomfort	35 (-36.75, 49)	
Missing	30 (-10, 51)	3.31 (0.35, 13.38)
<b>EQ-5D anxiety/depression at discharge</b>		
I am not anxious or depressed	-3 (-40, 10)	0.97 (0.59, 1.13)

I am moderately anxious or depressed	1.8 (-11.4, 39.6)	1.36 (0.43, 19.33)
I am extremely anxious or depressed	1.7 (0, 6.4)	
Missing	30 (-10, 51)	3.31 (0.35, 13.38)
<b>EQ-5D mobility at 30 day follow-up</b>		
I have no problems in walking	-21 (-50, -14)	0.79 (0.5, 0.86)
I have some problems in walking	17 (5, 50)	
I am confined to bed	4.2 (-3.7, 12)	
Missing	44 (-43.29, 69)	3.93 (0.16, 15.75)
<b>EQ-5D self-care at 30 day follow-up</b>		
I have no problems with self-care	-18 (-39, -10)	0.81 (0.61, 0.9)
I have some problems bathing or dressing myself	15 (7.4, 33)	
I am unable to bathe or dress myself	2.5 (-7, 25.9)	1.74 (0.58, 11.76)
Missing	44 (-43.29, 69)	3.93 (0.16, 15.75)
<b>EQ-5D usual activities at 30 day follow-up</b>		
I have no problems in performing my usual activities	-14 (-46, 1)	0.85 (0.52, 1.03)
I have some problems in performing my usual activities	10.3 (-1, 41.2)	7.06 (4.78, 23.89)
I am unable to perform my usual activities	3.5 (-5.6, 24.9)	2.03 (0.84, 11.76)
Missing	44 (-43.29, 69)	3.93 (0.16, 15.75)
<b>EQ-5D pain/discomfort at 30 day follow-up</b>		
I have no pain or discomfort	-7 (-28, 6)	0.92 (0.72, 1.09)
I have moderate pain or discomfort	5 (-10, 26.65)	1.36 (0.61, 14.5)
I have extreme pain or discomfort	2 (0, 8.8)	
Missing	44 (-43.29, 69)	3.93 (0.16, 15.75)
<b>EQ-5D anxiety/depression at 30 day follow-up</b>		
I am not anxious or depressed	-2 (-42, 7)	0.98 (0.57, 1.09)
I am moderately anxious or depressed	0.5 (-11, 42.2)	1.15 (0.31, 27.27)
I am extremely anxious or depressed	1 (0, 5.1)	
Missing	44 (-43.29, 69)	3.93 (0.16, 15.75)
<b>Patient satisfaction</b>		
Very satisfied	-24 (-39, -17)	0.74 (0.6, 0.84)
Somewhat satisfied	8.3 (-1.09, 35.6)	2.46 (1.09, 19.33)
Somewhat dissatisfied	9.4 (4, 17)	
Very dissatisfied	5.8 (0, 13)	
Missing	20 (-1, 44)	7.67 (1.25, 45)
<b>Number of hospitalizations for this injury</b>		
Missing	23 (-27, 42.97)	3.09 (0, 15.5)
<b>EQ-5D health state at discharge</b>		
Missing	-40 (-89, -25)	0.56 (0.06, 0.83)
Missing	29 (-32, 53)	2.53 (0.18, 8.62)
<b>EQ-5D health state at 30 day follow-up</b>		
Missing	-17 (-91, 5)	0.83 (0.09, 1.1)
Missing	44 (-47, 69.25)	3.59 (0.14, 14.75)
<b>Cost of treatment</b>		
Missing	1000 (-5000, 27188.83)	1.67 (0.4, 26.67)
Missing	69 (-5, 98.46)	4.29 (0.78, 10.67)

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**Table S9. Absolute and relative differences in outcomes after training, comparing ATLS with PTC**

Outcome	Absolute difference	Relative difference
<b>30 day mortality</b>		
Yes	-1.1 (-22, 11.22)	0.78 (0, 4.44)
No	1 (-12, 22)	1.01 (0.88, 1.28)
Missing	-10 (-37, 9)	0.17 (0, 3.17)
<b>24 hour mortality</b>		
Yes		
No		
Missing	-6 (-15, -4)	0.25 (0, 0.88)
<b>In-hospital mortality</b>		
Yes	-0.4 (-17, 9.31)	0.9 (0, 3.94)
No	0 (-11, 15)	1 (0.89, 1.19)
Missing	1 (-2, 6)	
<b>Self-ambulatory at discharge</b>		
Yes	3 (0, 14)	1.03 (1, 1.16)
No	-2.9 (-14, -1.4)	
Missing	1 (-28, 25)	1.33 (0, 13)
<b>Return to work</b>		
Yes	-12 (-40, 7)	0.83 (0.42, 1.16)
No	12 (-9, 40)	1.4 (0.86, 4.93)
Missing	-7 (-59, 9)	0.56 (0.05, 2.11)
<b>Pulmonary complication</b>		
Yes		
No		
Missing	-5 (-42, 5)	0.5 (0, 2.2)
<b>Septic complication</b>		
Yes	-3.2 (-8.2, -0.8)	
No	3 (0, 8)	1.03 (1, 1.09)
Missing	-5 (-41, 5)	0.5 (0, 2.2)
<b>Renal failure</b>		
Yes		
No		
Missing	-5 (-39, 5)	0.5 (0, 2.2)
<b>Coagulopathy</b>		
Yes	4.3 (0, 16)	
No	-4 (-16, 0)	0.96 (0.84, 1)
Missing	-5 (-39, 5)	0.5 (0, 2.2)
<b>Need for reexploration or resurgery</b>		
Yes	-1.6 (-7.7, 0)	
No	2 (0, 8)	1.02 (1, 1.09)
Missing	-4 (-46, 5)	0.6 (0, 2.4)
<b>Failure of conservative management</b>		
No	-6 (-26, -1)	0.94 (0.73, 0.99)
Yes	6.4 (0.9, 26.4)	5 (2.6, 27.14)
Missing	-9 (-52, 9)	0.25 (0, 3)
<b>EQ-5D mobility at discharge</b>		
I have no problems in walking	-3 (-37.88, 35.16)	0.97 (0.61, 1.59)
I have some problems in walking	6 (-14, 25.04)	2.2 (0.45, 14.67)
I am confined to bed	-3.3 (-26, 3.6)	
Missing	-3 (-51, 9)	0.77 (0.11, 2.25)
<b>EQ-5D self-care at discharge</b>		
I have no problems with self-care	-18 (-57, 21)	0.79 (0.41, 1.49)
I have some problems bathing or dressing myself	2.7 (-30, 29.35)	1.33 (0, 8)
I am unable to bathe or dress myself	15.3 (4, 42.8)	3.28 (1.16, 20)
Missing	-3 (-51, 9)	0.77 (0.11, 2.25)
<b>EQ-5D usual activities at discharge</b>		
I have no problems in performing my usual activities	-24 (-63, 10.64)	0.72 (0.28, 1.39)
I have some problems in performing my usual activities	13.7 (-21.15, 56)	2.65 (0.74, 23.16)
I am unable to perform my usual activities	10.3 (-1, 50.3)	2.54 (1.09, 18.33)
Missing	-3 (-51, 9)	0.77 (0.11, 2.25)
<b>EQ-5D pain/discomfort at discharge</b>		
I have no pain or discomfort	-15 (-53, 33.45)	0.77 (0.3, 2.35)
I have moderate pain or discomfort	20 (3, 49)	1.67 (1.12, 4.46)
I have extreme pain or discomfort	-5 (-49, 5.8)	
Missing	-3 (-51, 9)	0.77 (0.11, 2.25)
<b>EQ-5D anxiety/depression at discharge</b>		
I am not anxious or depressed	-12 (-43, -4)	0.87 (0.55, 0.96)



I am moderately anxious or depressed	12 (1.7, 42.8)	3.4 (1.17, 22.31)
I am extremely anxious or depressed	0 (-6.8, 0)	
Missing	-3 (-51, 9)	0.77 (0.11, 2.25)
<b>EQ-5D mobility at 30 day follow-up</b>		
I have no problems in walking	-18 (-55, -4)	0.82 (0.45, 0.98)
I have some problems in walking	20 (11.9, 55)	
I am confined to bed	-1.7 (-12, 1.7)	
Missing	-7 (-65, 8)	0.53 (0.05, 2.14)
<b>EQ-5D self-care at 30 day follow-up</b>		
I have no problems with self-care	-17 (-38, -8)	0.82 (0.61, 0.94)
I have some problems bathing or dressing myself	10 (-6, 30)	
I am unable to bathe or dress myself	6.6 (2.4, 24.3)	2.94 (1.65, 13.89)
Missing	-7 (-65, 8)	0.53 (0.05, 2.14)
<b>EQ-5D usual activities at 30 day follow-up</b>		
I have no problems in performing my usual activities	-20 (-46, -12)	0.79 (0.53, 0.88)
I have some problems in performing my usual activities	13.3 (5, 38)	8.82 (9.31, 21.11)
I am unable to perform my usual activities	6.6 (1.8, 24)	2.94 (1.7, 13.89)
Missing	-7 (-65, 8)	0.53 (0.05, 2.14)
<b>EQ-5D pain/discomfort at 30 day follow-up</b>		
I have no pain or discomfort	-6 (-29, 7)	0.93 (0.69, 1.11)
I have moderate pain or discomfort	6 (-8, 28)	1.43 (0.67, 12)
I have extreme pain or discomfort	0 (-6.6, 0)	
Missing	-7 (-65, 8)	0.53 (0.05, 2.14)
<b>EQ-5D anxiety/depression at 30 day follow-up</b>		
I am not anxious or depressed	-12 (-34, -3)	0.88 (0.65, 0.98)
I am moderately anxious or depressed	11.6 (-0.06, 34.4)	4.41 (0.87, 23.75)
I am extremely anxious or depressed	0 (-4.8, 0)	
Missing	-7 (-65, 8)	0.53 (0.05, 2.14)
<b>Patient satisfaction</b>		
Very satisfied	-15 (-35, 8)	0.84 (0.65, 1.16)
Somewhat satisfied	7.3 (-2.4, 26.7)	2.28 (0.93, 12.14)
Somewhat dissatisfied	4.2 (-7.79, 15.31)	
Very dissatisfied	4.2 (-3, 17)	
Missing	1 (-27.21, 24)	1.33 (0, 13)
<b>Number of hospitalizations for this injury</b>		
Missing	-8 (-44, 8)	0.27 (0, 2.75)
<b>EQ-5D health state at discharge</b>		
Missing	-25 (-85, 15)	0.72 (0.06, 1.39)
Missing	-9 (-55, 10)	0.53 (0.08, 1.92)
<b>EQ-5D health state at 30 day follow-up</b>		
Missing	-17 (-91, 0)	0.83 (0.09, 1)
Missing	-9 (-67, 9)	0.47 (0.04, 2.25)
<b>Cost of treatment</b>		
3500 (0, 33000)		3.33 (1, 55.56)
Missing	0 (-95.49, 70)	1 (0.11, 4.45)

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**Table S10. Absolute and relative differences in changes from baseline for all outcomes, comparing standard care with ATLS**

Outcome	Absolute difference	Relative difference
<b>30 day mortality</b>		
Yes	9.6 (-25.64, 31.44)	
No	-9 (-31, 26)	
Missing	23 (-9.51, 43)	
<b>24 hour mortality</b>		
Yes	-2.4 (-9.8, 0)	
No	2 (-3, 10)	
Missing	7 (-1, 18)	
<b>In-hospital mortality</b>		
Yes	3.4 (-16.6, 21.53)	
No	-3 (-22, 16)	
Missing	1 (-3.52, 5)	2 (0.5, 5)
<b>Self-ambulatory at discharge</b>		
Yes	-4 (-38, 4)	
No	4.7 (-3.7, 38)	
Missing	22 (-31, 39.93)	
<b>Return to work</b>		
Yes	37 (18, 86)	
No	-37 (-86, -19)	
Missing	45 (-39, 71)	
<b>Pulmonary complication</b>		
Yes	0 (-12, 0)	
No	0 (-10, 2)	
Missing	32 (-33, 51.17)	
<b>Septic complication</b>		
Yes	-1.7 (-12.85, 5.17)	
No	1 (-8, 10)	
Missing	33 (-36, 53.18)	
<b>Renal failure</b>		
Yes		
No		
Missing	31 (-34, 50.16)	
<b>Coagulopathy</b>		
Yes	-4.3 (-16, 0)	
No	4 (0, 16)	
Missing	32 (-34, 51.29)	
<b>Need for reexploration or resurgery</b>		
Yes	2.5 (-3.8, 10.29)	
No	-3 (-11, 1)	
Missing	39 (-43, 63.27)	20.5 (7.8, 58)
<b>Failure of conservative management</b>		
No	6 (0, 26)	
Yes	-6.3 (-26, -1.5)	
Missing	49 (33, 66)	
<b>EQ-5D mobility at discharge</b>		
I have no problems in walking	-22 (-78, -6)	
I have some problems in walking	-1.7 (-26.99, 20.5)	
I am confined to bed	23 (7.18, 63)	
Missing	35 (-51.8, 60.45)	
<b>EQ-5D self-care at discharge</b>		
I have no problems with self-care	-18 (-56, 6)	
I have some problems bathing or dressing myself	22 (-5, 59)	
I am unable to bathe or dress myself	-4 (-42.7, 17.31)	
Missing	35 (-51.8, 60.45)	
<b>EQ-5D usual activities at discharge</b>		
I have no problems in performing my usual activities	-18 (-64, 15)	
I have some problems in performing my usual activities	13 (-21.42, 46.56)	
I am unable to perform my usual activities	5 (-12.9, 45)	
Missing	35 (-51.8, 60.45)	
<b>EQ-5D pain/discomfort at discharge</b>		
I have no pain or discomfort	-25 (-66.11, 51)	
I have moderate pain or discomfort	11 (-43, 52.7)	
I have extreme pain or discomfort	14 (-8, 37.6)	
Missing	35 (-51.8, 60.45)	
<b>EQ-5D anxiety/depression at discharge</b>		
I am not anxious or depressed	-20 (-73, -4)	0.39 (-30, 1.56)

I am moderately anxious or depressed	21.8 (6, 68)	0.34 (-264, 1.29)
I am extremely anxious or depressed	-0.9 (-9.42, 5.6)	
Missing	35 (-51.8, 60.45)	
<b>EQ-5D mobility at 30 day follow-up</b>		
I have no problems in walking	-1 (-42, 28)	
I have some problems in walking	1 (-33, 27)	
I am confined to bed	-0.1 (-29.57, 36.4)	
Missing	51 (-40, 74)	
<b>EQ-5D self-care at 30 day follow-up</b>		
I have no problems with self-care	11 (-6, 59)	
I have some problems bathing or dressing myself	15.5 (-8.77, 58.1)	
I am unable to bathe or dress myself	-27.1 (-60.9, -19.65)	
Missing	51 (-40, 74)	
<b>EQ-5D usual activities at 30 day follow-up</b>		
I have no problems in performing my usual activities	35 (14, 76)	
I have some problems in performing my usual activities	-22 (-64, -9.9)	
I am unable to perform my usual activities	-12.8 (-38.4, -6.2)	
Missing	51 (-40, 74)	
<b>EQ-5D pain/discomfort at 30 day follow-up</b>		
I have no pain or discomfort	-8 (-74.56, 15)	
I have moderate pain or discomfort	6 (-18, 58.86)	
I have extreme pain or discomfort	2 (-6.57, 11.06)	
Missing	51 (-40, 74)	
<b>EQ-5D anxiety/depression at 30 day follow-up</b>		
I am not anxious or depressed	13 (-14, 45)	
I am moderately anxious or depressed	-14.3 (-39.4, 1.3)	
I am extremely anxious or depressed	1 (-5.8, 9.6)	
Missing	51 (-40, 74)	
<b>Patient satisfaction</b>		
Very satisfied	-12 (-45.57, 27)	
Somewhat satisfied	14 (3.16, 53.3)	0.39 (-27.05, 2.55)
Somewhat dissatisfied	-2.5 (-17.13, 10.9)	
Very dissatisfied	-1 (-21.48, 17.3)	
Missing	19 (-29, 36)	
<b>Number of hospitalizations for this injury</b>	0 (-1, -1)	
Missing	39 (29, 57)	
<b>EQ-5D health state at discharge</b>	-5 (-68.92, 60)	
Missing	33 (-38, 62.24)	
<b>EQ-5D health state at 30 day follow-up</b>	90 (86, 116)	
Missing	49 (-35, 77)	
<b>Cost of treatment</b>	-9500 (-74630.2, 10549.64)	
Missing	60 (-66, 95)	9.57 (0.05, 94)

**Table S11. Absolute and relative differences in changes from baseline for all outcomes, comparing standard care with PTC**

Outcome	Absolute difference	Relative difference
<b>30 day mortality</b>		
Yes	18.5 (14.1, 44.3)	
No	-18 (-44, -14)	
Missing	19 (-14.83, 37)	
<b>24 hour mortality</b>		
Yes	-2.4 (-9.8, 0)	
No	2 (0, 10)	
Missing	4 (-10, 12)	
<b>In-hospital mortality</b>		
Yes	10 (3.8, 25.8)	
No	-10 (-26, -5)	
Missing	2 (-1, 6)	
<b>Self-ambulatory at discharge</b>		
Yes	3 (-10, 40.7)	
No	-2.4 (-40.06, 10.2)	
Missing	27 (15.73, 49)	
<b>Return to work</b>		
Yes	16 (-61, 54)	
No	-16 (-56, 57.88)	
Missing	43 (-6, 69.51)	
<b>Pulmonary complication</b>		
Yes	2.2 (0, 10)	
No	-2 (-10, 0)	
Missing	32 (-3, 52)	
<b>Septic complication</b>		
Yes	-0.5 (-7.44, 7.44)	
No	0 (-9, 5)	
Missing	34 (-2, 55)	
<b>Renal failure</b>		
Yes		
No		
Missing	32 (-2, 51)	
<b>Coagulopathy</b>		
Yes	0 (-17.31, 4.2)	
No	0 (-17, 0)	
Missing	33 (-2, 52)	
<b>Need for reexploration or resurgery</b>		
Yes	3 (-0.1, 10.7)	
No	-3 (-11, -1)	
Missing	41 (-1, 64)	
<b>Failure of conservative management</b>		
No	-2 (-27, 4)	
Yes	2.3 (-4.1, 27.3)	
Missing	41 (-42, 64)	
<b>EQ-5D mobility at discharge</b>		
I have no problems in walking	-9 (-45, 37.2)	
I have some problems in walking	8 (-10.76, 43.6)	
I am confined to bed	-0.4 (-71.7, 22)	
Missing	44 (33, 74)	
<b>EQ-5D self-care at discharge</b>		
I have no problems with self-care	-14 (-67.77, 24)	
I have some problems bathing or dressing myself	19.7 (-9.7, 62.13)	
I am unable to bathe or dress myself	-6.4 (-47, 21)	
Missing	44 (33, 74)	
<b>EQ-5D usual activities at discharge</b>		
I have no problems in performing my usual activities	-16 (-72.97, 22)	
I have some problems in performing my usual activities	16.7 (-15, 65.46)	
I am unable to perform my usual activities	0.1 (-34, 32.74)	
Missing	44 (33, 74)	
<b>EQ-5D pain/discomfort at discharge</b>		
I have no pain or discomfort	-39 (-78.7, -13)	
I have moderate pain or discomfort	27 (0, 61)	
I have extreme pain or discomfort	11.4 (-3.77, 36.29)	
Missing	44 (33, 74)	
<b>EQ-5D anxiety/depression at discharge</b>		
I am not anxious or depressed	-9 (-45.55, 37.45)	0.59 (0, 9.18)

I am moderately anxious or depressed	7.8 (-42.26, 43.34)	0.59 (0.03, 12.41)
I am extremely anxious or depressed	1.5 (-2, 13.5)	
Missing	44 (33, 74)	
<b>EQ-5D mobility at 30 day follow-up</b>		
I have no problems in walking	5 (-35, 49)	
I have some problems in walking	11 (-16, 83)	
I am confined to bed	-16.5 (-82.9, 0)	
Missing	48 (-7, 76.59)	
<b>EQ-5D self-care at 30 day follow-up</b>		
I have no problems with self-care	2 (-65.02, 32)	
I have some problems bathing or dressing myself	13.2 (-14.34, 87.99)	
I am unable to bathe or dress myself	-15.8 (-44.79, 21.8)	
Missing	48 (-7, 76.59)	
<b>EQ-5D usual activities at 30 day follow-up</b>		
I have no problems in performing my usual activities	6 (-70, 32)	
I have some problems in performing my usual activities	-4 (-21.6, 47.5)	
I am unable to perform my usual activities	-1.5 (-17, 36.26)	
Missing	48 (-7, 76.59)	
<b>EQ-5D pain/discomfort at 30 day follow-up</b>		
I have no pain or discomfort	-4 (-61.12, 34.64)	
I have moderate pain or discomfort	0 (-48, 45)	
I have extreme pain or discomfort	4.3 (2.1, 12.9)	
Missing	48 (-7, 76.59)	
<b>EQ-5D anxiety/depression at 30 day follow-up</b>		
I am not anxious or depressed	-13 (-60, 8)	
I am moderately anxious or depressed	9.3 (-11.4, 60.2)	
I am extremely anxious or depressed	3.3 (2, 12.9)	
Missing	48 (-7, 76.59)	
<b>Patient satisfaction</b>		
Very satisfied	-18 (-66, 6)	
Somewhat satisfied	1.3 (-41.15, 30.03)	
Somewhat dissatisfied	5.6 (-3.77, 19.4)	
Very dissatisfied	11 (4.3, 25)	
Missing	24 (15, 48)	
<b>Number of hospitalizations for this injury</b>	0 (-1, -1)	
Missing	29 (-33.53, 52)	
<b>EQ-5D health state at discharge</b>	-10 (-90, 39)	
Missing	35 (-3, 59)	
<b>EQ-5D health state at 30 day follow-up</b>	73 (15, 114)	
Missing	45 (-8, 73.22)	
<b>Cost of treatment</b>	-10975 (-81672.96, 7582.31)	
Missing	64 (-2, 103)	

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**Table S12. Absolute and relative differences in changes from baseline for all outcomes, comparing ATLS with PTC**

Outcome	Absolute difference	Relative difference
<b>30 day mortality</b>		
Yes	8.9 (-12.57, 32.12)	
No	-9 (-32.63, 12)	
Missing	-4 (-37, 7)	
<b>24 hour mortality</b>		
Yes	0 (-12, 0)	
No	0 (-11, 0)	
Missing	-3 (-15, 3)	
<b>In-hospital mortality</b>		
Yes	6.6 (-4.2, 24.9)	
No	-7 (-25, 2)	
Missing	1 (-2, 6)	
<b>Self-ambulatory at discharge</b>		
Yes	7 (0, 41)	
No	-7.1 (-41.1, -0.7)	
Missing	5 (-25, 33)	
<b>Return to work</b>		
Yes	-21 (-89, 10)	
No	21 (-12, 89)	
Missing	-2 (-66, 41)	
<b>Pulmonary complication</b>		
Yes	2.2 (0, 10)	
No	-2 (-10, 0)	
Missing	0 (-47, 36)	
<b>Septic complication</b>		
Yes	1.2 (-3.75, 13.86)	
No	-1 (-14, 3)	
Missing	1 (-44.28, 39)	
<b>Renal failure</b>		
Yes		
No		
Missing	1 (-41.9, 37)	
<b>Coagulopathy</b>		
Yes	4.3 (0, 16)	
No	-4 (-16, 0)	
Missing	1 (-42.61, 38)	
<b>Need for reexploration or resurgery</b>		
Yes	0.5 (-6.1, 5.2)	
No	0 (-5, 6)	
Missing	2 (-46, 49)	
<b>Failure of conservative management</b>		
No	-8 (-28, -2)	
Yes	8.6 (2.1, 28.5)	
Missing	-8 (-67, 9)	
<b>EQ-5D mobility at discharge</b>		
I have no problems in walking	13 (-12, 72)	
I have some problems in walking	9.7 (-7.7, 45)	
I am confined to bed	-23.4 (-57.5, -1.76)	
Missing	9 (-39, 51)	
<b>EQ-5D self-care at discharge</b>		
I have no problems with self-care	4 (-32.19, 58.2)	
I have some problems bathing or dressing myself	-2.3 (-50.44, 25.2)	
I am unable to bathe or dress myself	-2.4 (-38, 33)	
Missing	9 (-39, 51)	
<b>EQ-5D usual activities at discharge</b>		
I have no problems in performing my usual activities	2 (-36, 56.83)	
I have some problems in performing my usual activities	3.7 (-34.93, 48)	
I am unable to perform my usual activities	-4.9 (-51.52, 21)	
Missing	9 (-39, 51)	
<b>EQ-5D pain/discomfort at discharge</b>		
I have no pain or discomfort	-14 (-65.85, 40)	
I have moderate pain or discomfort	16 (-23, 70)	
I have extreme pain or discomfort	-2.6 (-30, 6.85)	
Missing	9 (-39, 51)	
<b>EQ-5D anxiety/depression at discharge</b>		
I am not anxious or depressed	11 (-15, 70)	1.5 (0.5, 35)

I am moderately anxious or depressed	-14 (-67.3, 8.2)	1.74 (0.56, 28.5)
I am extremely anxious or depressed	2.4 (0, 11.4)	
Missing	9 (-39, 51)	
<b>EQ-5D mobility at 30 day follow-up</b>		
I have no problems in walking	6 (-34, 57)	1.86 (0.3, 44)
I have some problems in walking	10 (-16, 87.6)	
I am confined to bed	-16.4 (-101.8, 2.94)	
Missing	-3 (-72, 40)	
<b>EQ-5D self-care at 30 day follow-up</b>		
I have no problems with self-care	-9 (-93, 16)	
I have some problems bathing or dressing myself	-2.3 (-39.42, 30.96)	
I am unable to bathe or dress myself	11.3 (-7.7, 62.3)	
Missing	-3 (-72, 40)	
<b>EQ-5D usual activities at 30 day follow-up</b>		
I have no problems in performing my usual activities	-29 (-66, 7)	
I have some problems in performing my usual activities	18 (-1.3, 44.9)	
I am unable to perform my usual activities	11.3 (1.1, 34.5)	
Missing	-3 (-72, 40)	
<b>EQ-5D pain/discomfort at 30 day follow-up</b>		
I have no pain or discomfort	4 (-39.62, 56.63)	
I have moderate pain or discomfort	-6 (-62.71, 31)	
I have extreme pain or discomfort	2.3 (0, 12)	
Missing	-3 (-72, 40)	
<b>EQ-5D anxiety/depression at 30 day follow-up</b>		
I am not anxious or depressed	-26 (-49, -17.47)	
I am moderately anxious or depressed	23.6 (12.2, 46)	
I am extremely anxious or depressed	2.3 (0, 11)	
Missing	-3 (-72, 40)	
<b>Patient satisfaction</b>		
Very satisfied	-6 (-47.26, 25)	
Somewhat satisfied	-12.7 (-57.2, 2.75)	
Somewhat dissatisfied	8.1 (0.9, 30)	
Very dissatisfied	12 (4.2, 26)	
Missing	5 (-22, 30)	
<b>Number of hospitalizations for this injury</b>	0 (-1, -0.5)	
Missing	-10 (-55, 11)	
<b>EQ-5D health state at discharge</b>	-5 (-78.91, 41.66)	
Missing	2 (-44.02, 42)	
<b>EQ-5D health state at 30 day follow-up</b>	-17 (-109, 20)	
Missing	-4 (-71, 18)	
<b>Cost of treatment</b>	-1475 (-33639.83, 29927.2)	
Missing	4 (-75, 76)	

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