Supplementary Materials

Effect of Trauma Life Support Training on Patient Outcomes: A Pilot Cluster Randomised Trial

# Results with 75% confidence level

## Outcomes in all patients during the entire study period, by treatment arm

| Outcome | ATLS, N = 44 | PTC, N = 130 | Standard care, N = 202 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| Yes | 2.5 (0, 7.1) | 7.3 (4.5, 10) | 13 (9, 15) |
| No | 98 (92, 100) | 93 (89, 95) | 87 (83, 89) |
| Missing | 4 (2, 6) | 20 (14, 24) | 29 (22, 34) |
| **24 hour mortality** |  |  |  |
| Yes |  |  | 0.5 (0, 0.6) |
| No |  |  | 99 (98, 98) |
| Missing | 4 (2, 6) | 13 (9, 17) | 7 (4, 9.21) |
| **In-hospital mortality** |  |  |  |
| Yes | 2.3 (0, 6.3) | 5.4 (3.2, 7.8) | 11 (8.2, 13) |
| No | 98 (91, 100) | 95 (92, 97) | 90 (87, 92) |
| Missing | 1 (0, 1) |  | 2 (0, 3) |
| **Self-ambulatory at discharge** |  |  |  |
| Yes | 97 (86.68, 97) | 97 (94, 98) | 98 (95, 98) |
| No | 2.8 (0, 7.44) | 3.4 (1.7, 5.9) | 2.3 (1.1, 4) |
| Missing | 8 (5, 11) | 11 (7, 14) | 26 (19, 31) |
| **Return to work** |  |  |  |
| Yes | 64 (50, 73) | 72 (66, 76) | 51 (46, 56) |
| No | 36 (25, 48) | 28 (22, 32) | 49 (42, 52) |
| Missing | 19 (13, 23) | 31 (24, 36.5) | 68 (58, 75.79) |
| **Pulmonary complication** |  |  |  |
| Yes |  | 0.9 (0, 1.8) |  |
| No |  | 99 (95, 99) |  |
| Missing | 11 (7, 14) | 21 (15, 26) | 35 (28, 41) |
| **Septic complication** |  |  |  |
| Yes |  | 3.7 (1.87, 5.9) | 1.2 (0.5, 2.2) |
| No |  | 96 (92, 97) | 99 (96, 99) |
| Missing | 11 (7, 14) | 22 (16, 27) | 34 (27, 40) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 10 (6, 13) | 21 (15, 26) | 33 (26, 38) |
| **Coagulopathy** |  |  |  |
| Yes | 3 (0, 8.8) |  |  |
| No | 97 (86.53, 97) |  |  |
| Missing | 11 (7, 14) | 22 (16, 27) | 33 (26, 38) |
| **Need for reexploration or resurgery** |  |  |  |
| Yes |  | 1.8 (0, 3.5) | 1.9 (0.7, 3.5) |
| No |  | 98 (94, 98) | 98 (94.15, 98) |
| Missing | 10 (6, 13) | 20 (14, 25) | 43 (35, 50) |
| **Failure of conservative management** |  |  |  |
| No | 94 (85, 97) | 98 (94, 98) | 99 (96, 99) |
| Yes | 6.5 (2.9, 14) | 1.9 (0.9, 3.9) | 1.3 (0, 2.5) |
| Missing | 13 (9, 17) | 23 (17, 27) | 46 (37, 53) |
| **EQ-5D mobility at discharge** |  |  |  |
| I have no problems in walking | 80 (69, 87) | 88 (82, 90) | 62 (57, 66) |
| I have some problems in walking | 10 (4.5, 18) | 7.9 (5.5, 12) | 18 (14, 21) |
| I am confined to bed | 10 (4, 18) | 4 (2.1, 6.98) | 20 (16, 23) |
| Missing | 14 (10, 18) | 29 (22, 34) | 45 (37, 52) |
| **EQ-5D self-care at discharge** |  |  |  |
| I have no problems with self-care | 63 (50, 71) | 83 (77, 86) | 52 (46, 55) |
| I have some problems bathing or dressing myself | 13 (5.7, 21) | 9.9 (6.6, 14) | 27 (22, 30) |
| I am unable to bathe or dress myself | 23 (13, 31) | 6.9 (4.5, 10) | 21 (16, 24) |
| Missing | 14 (10, 18) | 29 (22, 34) | 45 (37, 52) |
| **EQ-5D usual activities at discharge** |  |  |  |
| I have no problems in performing my usual activities | 57 (46, 67) | 81 (75, 84) | 48 (42, 51) |
| I have some problems in performing my usual activities | 23 (13, 32) | 11 (7, 14) | 36 (31, 40) |
| I am unable to perform my usual activities | 20 (11, 29) | 7.9 (5, 11) | 16 (12, 18) |
| Missing | 14 (10, 18) | 29 (22, 34) | 45 (37, 52) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| I have no pain or discomfort | 43 (31.94, 53) | 52 (45, 56) | 27 (22, 30) |
| I have moderate pain or discomfort | 57 (44, 66) | 44 (38, 49) | 36 (31, 40) |
| I have extreme pain or discomfort |  | 4 (2.1, 6.9) | 36 (31, 39) |
| Missing | 14 (10, 18) | 29 (22, 34) | 45 (37, 52) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| I am not anxious or depressed | 70 (59, 79) | 86 (80, 89) | 89 (85, 91) |
| I am moderately anxious or depressed | 30 (19, 38) | 13 (8.9, 16) | 9.6 (7.38, 13) |
| I am extremely anxious or depressed |  | 1 (0, 2.2) | 1.9 (0.6, 3.2) |
| Missing | 14 (10, 18) | 29 (22, 34) | 45 (37, 52) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| I have no problems in walking | 77 (65, 85) | 95 (90, 96) | 74 (68, 77) |
| I have some problems in walking | 19 (11, 29) | 3 (1.8, 5.9) | 16 (12, 19) |
| I am confined to bed | 3.8 (0, 11) | 2 (0.9, 4) | 9.8 (7.1, 13) |
| Missing | 18 (13, 22) | 29 (23, 34) | 69 (59, 77) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| I have no problems with self-care | 81 (68, 87) | 94 (89, 95) | 77 (71, 80) |
| I have some problems bathing or dressing myself | 12 (5.3, 21) | 2 (0.9, 4.1) | 13 (9.2, 16) |
| I am unable to bathe or dress myself | 7.7 (3.4, 16) | 4 (2.1, 6.9) | 9.8 (7.1, 13) |
| Missing | 18 (13, 22) | 29 (23, 34) | 69 (59, 77) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| I have no problems in performing my usual activities | 81 (69, 88) | 93 (88, 95) | 79 (73, 82) |
| I have some problems in performing my usual activities | 12 (5.9, 21) | 3 (1.1, 5.5) | 14 (10, 17) |
| I am unable to perform my usual activities | 7.7 (3.4, 16) | 4 (2.1, 6.9) | 7.5 (5.2, 11) |
| Missing | 18 (13, 22) | 29 (23, 34) | 69 (59, 77) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| I have no pain or discomfort | 77 (65, 85) | 82 (76, 85) | 78 (72, 81) |
| I have moderate pain or discomfort | 23 (13, 33) | 17 (12, 20) | 20 (15, 23) |
| I have extreme pain or discomfort |  | 1 (0, 2.1) | 1.5 (0.7, 3) |
| Missing | 18 (13, 22) | 29 (23, 34) | 69 (59, 77) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| I am not anxious or depressed | 88 (75.79, 93) | 92 (87, 94) | 95 (90, 95) |
| I am moderately anxious or depressed | 12 (5.9, 21) | 6.9 (4.4, 11) | 3.8 (2.2, 6.3) |
| I am extremely anxious or depressed |  | 1 (0, 2.1) | 0.8 (0, 2.3) |
| Missing | 18 (13, 22) | 29 (23, 34) | 69 (59, 77) |
| **Patient satisfaction** |  |  |  |
| Very satisfied | 74 (65, 81) | 85 (80, 88) | 69 (64, 71) |
| Somewhat satisfied | 21 (13, 27.1) | 9.9 (6.7, 13) | 16 (12, 18) |
| Somewhat dissatisfied | 2.6 (0, 6.7) | 1.7 (0.8, 3.4) | 9 (6.6, 12) |
| Very dissatisfied | 2.6 (0, 7.5) | 3.3 (1.7, 5.6) | 5.1 (3.3, 7.1) |
| Missing | 6 (3, 8) | 9 (5, 12) | 25 (19, 30) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 13 (9, 17) | 19 (13, 23) | 36 (29, 42) |
| **EQ-5D health state at discharge** | 60 (50, 55) | 80 (79, 79) | 50 (5, 50) |
| Missing | 15 (10, 19) | 35 (28, 42) | 58 (49, 65) |
| **EQ-5D health state at 30 day follow-up** | 88 (80, 100) | 100 (99, 99) | 80 (9, 80) |
| Missing | 18 (13, 22) | 32 (26, 38) | 75 (65, 83) |
| **Cost of treatment** | 5000 (0, 7000) | 2000 (1500, 2000) | 3000 (1000, 4000) |
| Missing | 35 (28, 42) | 39 (32, 46) | 113 (102, 123) |

## Outcomes in all patients before training, by treatment arm

| Outcome | ATLS, N = 16 | PTC, N = 57 | Standard care, N = 41 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| Yes |  | 10 (5.33, 15) | 2.6 (0, 6.5) |
| No |  | 90 (83, 94) | 97 (82.82, 97) |
| Missing | 2 (0, 3) | 8 (5, 10) | 3 (1, 4) |
| **24 hour mortality** |  |  |  |
| Yes |  |  | 2.4 (0, 6.3) |
| No |  |  | 98 (93, 100) |
| Missing | 2 (0, 3) | 5 (2, 7) |  |
| **In-hospital mortality** |  |  |  |
| Yes |  | 7 (3.7, 12) | 4.9 (2.2, 11) |
| No |  | 93 (87, 95) | 95 (87, 97) |
| Missing |  |  |  |
| **Self-ambulatory at discharge** |  |  |  |
| Yes | 92 (75.32, 100) | 96 (89, 98) | 95 (88, 98) |
| No | 8.3 (0, 20) | 4.1 (1.9, 8.8) | 5.1 (2.1, 11) |
| Missing | 4 (2, 6) | 8 (4, 10) | 2 (0, 3) |
| **Return to work** |  |  |  |
| Yes | 83 (50, 100) | 74 (65, 80) | 41 (30, 50) |
| No | 17 (0, 40) | 26 (17.11, 33) | 59 (47, 68) |
| Missing | 10 (6, 13) | 15 (10, 19) | 12 (8, 15) |
| **Pulmonary complication** |  |  |  |
| Yes |  | 2.2 (0, 5.9) |  |
| No |  | 98 (90, 98) |  |
| Missing | 6 (3, 8) | 11 (7, 14) | 2 (0, 3) |
| **Septic complication** |  |  |  |
| Yes |  | 4.4 (2, 9.1) | 2.5 (0, 6.5) |
| No |  | 96 (91, 98) | 98 (93, 100) |
| Missing | 6 (3, 8) | 12 (8, 15) | 1 (0, 1) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 5 (2, 7) | 11 (7, 14) | 1 (0, 1) |
| **Coagulopathy** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 6 (3, 8) | 12 (8, 15) | 1 (0, 1) |
| **Need for reexploration or resurgery** |  |  |  |
| Yes |  | 2.1 (0, 5.8) |  |
| No |  | 98 (89.88, 98) |  |
| Missing | 4 (2, 6) | 10 (6, 13) | 1 (0, 1) |
| **Failure of conservative management** |  |  |  |
| No |  | 98 (90, 98) |  |
| Yes |  | 2.2 (0, 6.25) |  |
| Missing | 10 (6, 13) | 11 (7, 14) | 2 (0, 3) |
| **EQ-5D mobility at discharge** |  |  |  |
| I have no problems in walking | 67 (45, 80) | 83 (74, 88) | 62 (51, 69.07) |
| I have some problems in walking | 8.3 (0, 20) | 12 (5.6, 17) | 18 (11, 25) |
| I am confined to bed | 25 (10, 40) | 4.9 (2.2, 10) | 21 (14, 29) |
| Missing | 4 (2, 6) | 16 (11, 20) | 2 (0, 3) |
| **EQ-5D self-care at discharge** |  |  |  |
| I have no problems with self-care | 58 (40, 75) | 80 (71, 86) | 59 (48, 67) |
| I have some problems bathing or dressing myself | 17 (7.1, 33) | 12 (5.9, 18) | 15 (7.7, 21) |
| I am unable to bathe or dress myself | 25 (10, 40) | 7.3 (3, 14) | 26 (17, 34) |
| Missing | 4 (2, 6) | 16 (11, 20) | 2 (0, 3) |
| **EQ-5D usual activities at discharge** |  |  |  |
| I have no problems in performing my usual activities | 50 (29, 63) | 76 (67, 82) | 54 (45, 63) |
| I have some problems in performing my usual activities | 25 (10, 40) | 15 (8.73, 22) | 28 (19, 35) |
| I am unable to perform my usual activities | 25 (10, 40) | 9.8 (5.4, 17) | 18 (11, 26) |
| Missing | 4 (2, 6) | 16 (11, 20) | 2 (0, 3) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| I have no pain or discomfort | 33 (17, 47) | 34 (25, 44) | 33 (24, 41) |
| I have moderate pain or discomfort | 67 (45, 79) | 63 (51, 70) | 41 (30.69, 49) |
| I have extreme pain or discomfort |  | 2.4 (0, 6.3) | 26 (18, 34) |
| Missing | 4 (2, 6) | 16 (11, 20) | 2 (0, 3) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| I am not anxious or depressed | 50 (29, 63) | 73 (63, 80) | 79 (69, 84) |
| I am moderately anxious or depressed | 50 (29, 63) | 24 (16, 31) | 18 (11, 24) |
| I am extremely anxious or depressed |  | 2.4 (0, 6.3) | 2.6 (0, 7.08) |
| Missing | 4 (2, 6) | 16 (11, 20) | 2 (0, 3) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| I have no problems in walking | 67 (33, 83) | 91 (83, 95) | 65 (54, 74) |
| I have some problems in walking | 17 (0, 43) | 7 (3.8, 13) | 13 (6.3, 21) |
| I am confined to bed | 17 (0, 40) | 2.3 (0, 6.3) | 23 (14, 32) |
| Missing | 10 (6, 13) | 14 (9, 17) | 10 (6, 13) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| I have no problems with self-care | 83 (50, 100) | 91 (84, 95) | 71 (60, 79) |
| I have some problems bathing or dressing myself | 17 (0, 43) | 4.7 (2.2, 10) | 6.5 (3, 14) |
| I am unable to bathe or dress myself |  | 4.7 (2.1, 10) | 23 (15, 32) |
| Missing | 10 (6, 13) | 14 (9, 17) | 10 (6, 13) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| I have no problems in performing my usual activities |  | 91 (84, 95) | 71 (60, 79) |
| I have some problems in performing my usual activities |  | 4.7 (2.2, 10) | 19 (11, 28) |
| I am unable to perform my usual activities |  | 4.7 (2.1, 10) | 9.7 (4.3, 19) |
| Missing | 10 (6, 13) | 14 (9, 17) | 10 (6, 13) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| I have no pain or discomfort | 67 (33, 83) | 77 (68, 83) | 74 (62, 81) |
| I have moderate pain or discomfort | 33 (0, 50) | 21 (13, 28) | 26 (18, 36) |
| I have extreme pain or discomfort |  | 2.3 (0, 6.1) |  |
| Missing | 10 (6, 13) | 14 (9, 17) | 10 (6, 13) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| I am not anxious or depressed |  | 86 (78, 91) | 97 (88, 100) |
| I am moderately anxious or depressed |  | 12 (6.5, 18) | 3.2 (0, 9.1) |
| I am extremely anxious or depressed |  | 2.3 (0, 6.1) |  |
| Missing | 10 (6, 13) | 14 (9, 17) | 10 (6, 13) |
| **Patient satisfaction** |  |  |  |
| Very satisfied | 64 (45, 75) | 73 (66, 80) | 67 (56, 74) |
| Somewhat satisfied | 36 (21, 50) | 16 (10, 22) | 23 (15, 30) |
| Somewhat dissatisfied |  | 3.9 (1.8, 7.91) | 7.7 (3.3, 14) |
| Very dissatisfied |  | 7.8 (4.2, 13) | 2.6 (0, 7.7) |
| Missing | 2 (0, 3) | 6 (3, 8) | 2 (0, 3) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 10 (6, 13) | 8 (5, 10) | 2 (0, 3) |
| **EQ-5D health state at discharge** | 60 (45, 70) | 80 (70, 80) | 50 (4, 80) |
| Missing | 5 (2, 7) | 16 (11, 20) | 10 (6, 13) |
| **EQ-5D health state at 30 day follow-up** | 100 (55, 100) | 100 (90, 100) | 10 (9, 98) |
| Missing | 10 (6, 13) | 15 (10, 19) | 14 (10, 18) |
| **Cost of treatment** | 7000 (0, 14000) | 2025 (1300, 5000) | 14000 (500, 17000) |
| Missing | 14 (9, 18) | 18 (13, 22) | 23 (18, 29) |

## Outcomes in all patients after training, by treatment arm

| Outcome | ATLS, N = 28 | PTC, N = 73 | Standard care, N = 161 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| Yes | 3.8 (0, 11) | 4.9 (1.8, 8.5) | 16 (11, 18) |
| No | 96 (83.52, 97) | 95 (90, 97) | 84 (80, 87) |
| Missing | 2 (0, 3) | 12 (8, 16) | 26 (20, 31) |
| **24 hour mortality** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 2 (0, 3) | 8 (4, 11) | 7 (4, 9.21) |
| **In-hospital mortality** |  |  |  |
| Yes | 3.7 (0, 11) | 4.1 (1.4, 7) | 12 (8.4, 14) |
| No | 96 (83.08, 97) | 96 (91, 97) | 88 (84, 89) |
| Missing | 1 (0, 1) |  | 2 (0, 3) |
| **Self-ambulatory at discharge** |  |  |  |
| Yes |  | 97 (92, 98) | 99 (96, 99) |
| No |  | 2.9 (1.3, 6.2) | 1.5 (0.7, 3.3) |
| Missing | 4 (1, 5) | 3 (1, 4) | 24 (18, 29) |
| **Return to work** |  |  |  |
| Yes | 58 (43, 69) | 70 (61, 76) | 53 (46, 58) |
| No | 42 (30, 55.92) | 30 (22, 36) | 47 (40, 52) |
| Missing | 9 (5, 12) | 16 (11, 20) | 56 (48, 63) |
| **Pulmonary complication** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 5 (2, 7) | 10 (6, 13) | 33 (25, 38) |
| **Septic complication** |  |  |  |
| Yes |  | 3.2 (1.4, 6.6) | 0.8 (0, 1.7) |
| No |  | 97 (92, 98) | 99 (96, 99) |
| Missing | 5 (2, 7) | 10 (6, 13) | 33 (25, 38) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 5 (2, 7) | 10 (6, 13) | 32 (25, 37) |
| **Coagulopathy** |  |  |  |
| Yes | 4.3 (0, 12.83) |  |  |
| No | 96 (87, 100) |  |  |
| Missing | 5 (2, 7) | 10 (6, 13) | 32 (25, 37) |
| **Need for reexploration or resurgery** |  |  |  |
| Yes |  | 1.6 (0, 4.2) | 2.5 (0.9, 4.6) |
| No |  | 98 (91.58, 98) | 97 (92, 97) |
| Missing | 6 (3, 8) | 10 (6, 13) | 42 (35, 49) |
| **Failure of conservative management** |  |  |  |
| No | 92 (80, 96) | 98 (90.81, 98) | 98 (93.53, 98) |
| Yes | 8 (3.4, 17) | 1.6 (0, 3.7) | 1.7 (0, 3.4) |
| Missing | 3 (1, 4) | 12 (8, 15) | 44 (35, 50) |
| **EQ-5D mobility at discharge** |  |  |  |
| I have no problems in walking | 89 (75.05, 95) | 92 (86, 95) | 62 (56, 66) |
| I have some problems in walking | 11 (4.2, 20) | 5 (2, 9.7) | 19 (15, 23) |
| I am confined to bed |  | 3.3 (1.5, 7) | 19 (14, 22) |
| Missing | 10 (6, 13) | 13 (9, 17) | 43 (35, 49) |
| **EQ-5D self-care at discharge** |  |  |  |
| I have no problems with self-care | 67 (48, 76) | 85 (78, 89) | 50 (44, 54) |
| I have some problems bathing or dressing myself | 11 (0, 21) | 8.3 (4.8, 13) | 31 (26, 35) |
| I am unable to bathe or dress myself | 22 (11, 33) | 6.7 (3.3, 11) | 19 (13, 22) |
| Missing | 10 (6, 13) | 13 (9, 17) | 43 (35, 49) |
| **EQ-5D usual activities at discharge** |  |  |  |
| I have no problems in performing my usual activities | 61 (45, 73) | 85 (78, 89) | 47 (41, 51) |
| I have some problems in performing my usual activities | 22 (11, 35) | 8.3 (4.8, 13) | 38 (32, 41) |
| I am unable to perform my usual activities | 17 (6.7, 29) | 6.7 (3.3, 11) | 15 (10, 18) |
| Missing | 10 (6, 13) | 13 (9, 17) | 43 (35, 49) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| I have no pain or discomfort | 50 (33, 62) | 65 (56, 71) | 25 (19, 28) |
| I have moderate pain or discomfort | 50 (32, 60) | 30 (22, 36) | 35 (30, 40) |
| I have extreme pain or discomfort |  | 5 (2.1, 9.2) | 40 (34, 44) |
| Missing | 10 (6, 13) | 13 (9, 17) | 43 (35, 49) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| I am not anxious or depressed | 83 (69, 90) | 95 (89, 97) | 92 (88, 94) |
| I am moderately anxious or depressed | 17 (7.1, 28) | 5 (1.9, 9.14) | 6.8 (4.5, 10) |
| I am extremely anxious or depressed |  |  | 1.7 (0.7, 3.3) |
| Missing | 10 (6, 13) | 13 (9, 17) | 43 (35, 49) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| I have no problems in walking | 80 (65, 88) | 98 (90, 98) | 77 (70, 80) |
| I have some problems in walking | 20 (11, 33) |  | 17 (12, 21) |
| I am confined to bed |  | 1.7 (0, 4.3) | 5.9 (3.58, 9.3) |
| Missing | 8 (5, 11) | 15 (10, 19) | 59 (50, 66) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| I have no problems with self-care | 80 (67, 88.3) | 97 (93, 98) | 79 (72, 82) |
| I have some problems bathing or dressing myself | 10 (4.2, 19.45) |  | 15 (11, 19) |
| I am unable to bathe or dress myself | 10 (4.3, 21) | 3.4 (1.5, 7) | 5.9 (3.5, 9) |
| Missing | 8 (5, 11) | 15 (10, 19) | 59 (50, 66) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| I have no problems in performing my usual activities | 75 (62, 85) | 95 (89, 97) | 81 (75, 84) |
| I have some problems in performing my usual activities | 15 (7.1, 26) | 1.7 (0, 4.8) | 12 (8.3, 15) |
| I am unable to perform my usual activities | 10 (4.3, 21) | 3.4 (1.5, 7) | 6.9 (4.3, 10) |
| Missing | 8 (5, 11) | 15 (10, 19) | 59 (50, 66) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| I have no pain or discomfort | 80 (67, 88) | 86 (79, 90) | 79 (72, 82) |
| I have moderate pain or discomfort | 20 (9.5, 31.58) | 14 (8.45, 19) | 19 (14, 23) |
| I have extreme pain or discomfort |  |  | 2 (0.9, 4.4) |
| Missing | 8 (5, 11) | 15 (10, 19) | 59 (50, 66) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| I am not anxious or depressed | 85 (71, 92) | 97 (92, 98) | 95 (91, 96) |
| I am moderately anxious or depressed | 15 (7.1, 26) | 3.4 (1.51, 7) | 3.9 (2, 6.9) |
| I am extremely anxious or depressed |  |  | 1 (0, 2.5) |
| Missing | 8 (5, 11) | 15 (10, 19) | 59 (50, 66) |
| **Patient satisfaction** |  |  |  |
| Very satisfied | 79 (67, 86) | 94 (88, 96) | 70 (64, 73) |
| Somewhat satisfied | 13 (5.6, 22) | 5.7 (2.9, 9.7) | 14 (9.7, 16) |
| Somewhat dissatisfied | 4.2 (0, 11) |  | 9.4 (7, 13) |
| Very dissatisfied | 4.2 (0, 12) |  | 5.8 (3.5, 8.1) |
| Missing | 4 (1, 5) | 3 (1, 4) | 23 (17, 27) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 3 (1, 4) | 11 (7, 14) | 34 (27, 40) |
| **EQ-5D health state at discharge** | 65 (60, 75) | 90 (80, 90) | 50 (5, 50) |
| Missing | 10 (6, 13) | 19 (14, 24) | 48 (40, 55) |
| **EQ-5D health state at 30 day follow-up** | 83 (80, 95) |  | 83 (50, 90) |
| Missing | 8 (5, 11) | 17 (12, 21) | 61 (52, 68) |
| **Cost of treatment** | 5000 (0, 7000) | 1500 (296.03, 1500) | 2500 (1750, 5000) |
| Missing | 21 (15, 25) | 21 (15, 26) | 90 (80, 98) |

## 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 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| Yes | 3.8 (0, 11) | -5.1 (-10.8, 1.05) | 13.4 (7.46, 17.1) |
| No | -4 (-16.48, -3) | 5 (-2, 10) | -13 (-17, -8) |
| Missing | 0 (-3, 1) | 4 (-2, 8) | 23 (17, 28) |
| **24 hour mortality** |  |  |  |
| Yes |  |  | -2.4 (-6.91, 0) |
| No |  |  | 2 (0, 4) |
| Missing | 0 (-3, 1) | 3 (-2, 7) | 7 (4, 9.21) |
| **In-hospital mortality** |  |  |  |
| Yes | 3.7 (0, 11) | -2.9 (-8.3, 1.1) | 7.1 (1, 11) |
| No | -4 (-16.92, -3) | 3 (-2, 7) | -7 (-12, -2) |
| Missing | 1 (0, 1) |  | 2 (0, 3) |
| **Self-ambulatory at discharge** |  |  |  |
| Yes | 8 (0, 18) | 1 (-4, 4) | 4 (0, 9) |
| No | -8.3 (-24.56, 0) | -1.2 (-5.9, 2.4) | -3.6 (-9.7, 0) |
| Missing | 0 (-4, 2) | -5 (-10, -3) | 22 (15, 27) |
| **Return to work** |  |  |  |
| Yes | -25 (-45, 0) | -4 (-16, 5) | 12 (-1, 22) |
| No | 25 (-2, 43) | 4 (-7, 14) | -12 (-25, -2) |
| Missing | -1 (-7, 3) | 1 (-6, 6) | 44 (34, 52) |
| **Pulmonary complication** |  |  |  |
| Yes |  | -2.2 (-6.8, 0) |  |
| No |  | 2 (0, 3) |  |
| Missing | -1 (-6, 1) | -1 (-7, 3) | 31 (23, 36) |
| **Septic complication** |  |  |  |
| Yes |  | -1.2 (-6.1, 2.76) | -1.7 (-5.6, 0.8) |
| No |  | 1 (-4, 5) | 1 (-2, 3) |
| Missing | -1 (-6, 1) | -2 (-8, 2) | 32 (24, 37) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 0 (-5, 2) | -1 (-7, 3) | 31 (23, 36) |
| **Coagulopathy** |  |  |  |
| Yes | 4.3 (0, 12.83) |  |  |
| No | -4 (-13, 0) |  |  |
| Missing | -1 (-6, 1) | -2 (-8, 2) | 31 (23, 36) |
| **Need for reexploration or resurgery** |  |  |  |
| Yes |  | -0.5 (-4.9, 1.5) | 2.5 (0.9, 4.6) |
| No |  | 0 (-4, 1) | -3 (-8, -3) |
| Missing | 2 (-3, 4) | 0 (-5, 4) | 41 (34, 48) |
| **Failure of conservative management** |  |  |  |
| No | -8 (-20, -4) | 0 (-5, 1) | -2 (-6.47, -2) |
| Yes | 8 (3.4, 17) | -0.6 (-5.3, 1.5) | 1.7 (0, 3.4) |
| Missing | -7 (-13, -4) | 1 (-5, 5) | 42 (33, 48) |
| **EQ-5D mobility at discharge** |  |  |  |
| I have no problems in walking | 22 (3, 39) | 9 (0, 16.36) | 0 (-11, 10) |
| I have some problems in walking | 2.7 (-13, 13) | -7 (-13.2, 0.07) | 1 (-8, 8) |
| I am confined to bed | -25 (-46, -14) | -1.6 (-6.9, 2.8) | -2 (-14, 5) |
| Missing | 6 (1, 9) | -3 (-10, 3) | 41 (33, 47) |
| **EQ-5D self-care at discharge** |  |  |  |
| I have no problems with self-care | 9 (-14, 30) | 5 (-4, 13) | -9 (-20, 1) |
| I have some problems bathing or dressing myself | -6 (-25, 6.7) | -3.7 (-11.1, 3) | 16 (8, 24) |
| I am unable to bathe or dress myself | -3 (-25, 14) | -0.6 (-6.49, 6.4) | -7 (-19, 0) |
| Missing | 6 (1, 9) | -3 (-10, 3) | 41 (33, 47) |
| **EQ-5D usual activities at discharge** |  |  |  |
| I have no problems in performing my usual activities | 11 (-14, 31) | 9 (-1, 17) | -7 (-18, 3) |
| I have some problems in performing my usual activities | -3 (-24, 14.74) | -6.7 (-15.2, 0) | 10 (0.04, 19) |
| I am unable to perform my usual activities | -8 (-27, 9) | -3.1 (-10.2, 3.1) | -3 (-14, 3) |
| Missing | 6 (1, 9) | -3 (-10, 3) | 41 (33, 47) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| I have no pain or discomfort | 17 (-6, 36) | 31 (17, 40) | -8 (-20, 0) |
| I have moderate pain or discomfort | -17 (-39, 3) | -33 (-44, -21) | -6 (-16, 5) |
| I have extreme pain or discomfort |  | 2.6 (-2, 6.51) | 14 (2, 20) |
| Missing | 6 (1, 9) | -3 (-10, 3) | 41 (33, 47) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| I am not anxious or depressed | 33 (11, 52) | 22 (13, 30) | 13 (5, 22) |
| I am moderately anxious or depressed | -33 (-54, -14) | -19 (-28, -11.03) | -11.2 (-20, -4.2) |
| I am extremely anxious or depressed |  | -2.4 (-7.5, 0) | -0.9 (-5.76, 1.1) |
| Missing | 6 (1, 9) | -3 (-10, 3) | 41 (33, 47) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| I have no problems in walking | 13 (-17, 39) | 7 (1, 11) | 12 (-1, 22) |
| I have some problems in walking | 3 (-26.47, 20) | -7 (-14, -4.3) | 4 (-6, 11) |
| I am confined to bed | -17 (-50, 0) | -0.6 (-4.9, 1.8) | -17.1 (-28.24, -9.7) |
| Missing | -2 (-8, 2) | 1 (-6, 6) | 49 (39, 56) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| I have no problems with self-care | -3 (-20, 28) | 6 (0, 11) | 8 (-3, 17) |
| I have some problems bathing or dressing myself | -7 (-38.33, 9.1) | -4.7 (-10, -2.3) | 8.5 (1.5, 14.6) |
| I am unable to bathe or dress myself | 10 (4.3, 21) | -1.3 (-6.5, 2.8) | -17.1 (-27.4, -9.1) |
| Missing | -2 (-8, 2) | 1 (-6, 6) | 49 (39, 56) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| I have no problems in performing my usual activities | -25 (-38, -15) | 4 (-4, 8) | 10 (-1, 20) |
| I have some problems in performing my usual activities | 15 (7.1, 26) | -3 (-8.43, 0) | -7 (-17, 1) |
| I am unable to perform my usual activities | 10 (4.3, 21) | -1.3 (-6.5, 2.8) | -2.8 (-12.01, 2.9) |
| Missing | -2 (-8, 2) | 1 (-6, 6) | 49 (39, 56) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| I have no pain or discomfort | 13 (-13, 39) | 9 (-1, 17) | 5 (-5, 16) |
| I have moderate pain or discomfort | -13 (-40.9, 11) | -7 (-16.36, 2) | -7 (-21, 1) |
| I have extreme pain or discomfort |  | -2.3 (-7, 0) | 2 (0.9, 4.4) |
| Missing | -2 (-8, 2) | 1 (-6, 6) | 49 (39, 56) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| I am not anxious or depressed | -15 (-29, -8) | 11 (5, 17) | -2 (-6, 2) |
| I am moderately anxious or depressed | 15 (7.1, 26) | -8.6 (-15.37, -3) | 0.7 (-6.24, 3.7) |
| I am extremely anxious or depressed |  | -2.3 (-7, 0) | 1 (0, 2.5) |
| Missing | -2 (-8, 2) | 1 (-6, 6) | 49 (39, 56) |
| **Patient satisfaction** |  |  |  |
| Very satisfied | 15 (-3, 33) | 21 (11, 26) | 3 (-8, 12) |
| Somewhat satisfied | -23 (-41.7, -8) | -10.3 (-17.72, -4.15) | -9 (-19, -2) |
| Somewhat dissatisfied | 4.2 (0, 11) | -3.9 (-8.25, -1.9) | 1.7 (-5.3, 6.3) |
| Very dissatisfied | 4.2 (0, 12) | -7.8 (-13, -4.3) | 3.2 (-2.2, 5.9) |
| Missing | 2 (-2, 4) | -3 (-8, -1) | 21 (15, 26) |
| **Number of hospitalizations for this injury** | 0 (-1, -0.5) |  |  |
| Missing | -7 (-13, -4) | 3 (-3, 7) | 32 (25, 39) |
| **EQ-5D health state at discharge** | 5 (-20, 20) | 10 (-10, 10) | 0 (-45, 45) |
| Missing | 5 (0, 8) | 3 (-4, 9) | 38 (28, 45) |
| **EQ-5D health state at 30 day follow-up** | -17 (-25, -5) |  | 73 (41, 91) |
| Missing | -2 (-8, 2) | 2 (-6, 7) | 47 (36, 55) |
| **Cost of treatment** | -2000 (-12000, 5000) | -525 (-3500, 250) | -11500 (-33000, -1000) |
| Missing | 7 (-1, 12) | 3 (-5, 9) | 67 (55, 78) |

## 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 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| Yes |  | 0.49 (0.17, 1.19) | 6.15 (4.58, 9.46) |
| No | 0.96 (0.84, 0.97) | 1.06 (0.99, 1.12) | 0.87 (0.83, 0.93) |
| Missing | 1 (0, 2) | 1.5 (0.86, 2.4) | 8.67 (4.4, 15) |
| **24 hour mortality** |  |  |  |
| Yes |  |  |  |
| No |  |  | 1.02 (1, 1.04) |
| Missing | 1 (0, 2) | 1.6 (0.8, 3.5) |  |
| **In-hospital mortality** |  |  |  |
| Yes |  | 0.59 (0.2, 1.48) | 2.45 (1.22, 5) |
| No | 0.96 (0.83, 0.97) | 1.03 (0.99, 1.09) | 0.93 (0.89, 0.99) |
| Missing |  |  |  |
| **Self-ambulatory at discharge** |  |  |  |
| Yes | 1.09 (1, 1.22) | 1.01 (0.97, 1.05) | 1.04 (1, 1.11) |
| No |  | 0.71 (0.25, 2.19) | 0.29 (0.12, 0.93) |
| Missing | 1 (0.25, 1.75) | 0.38 (0.12, 0.83) | 12 (5.67, 24) |
| **Return to work** |  |  |  |
| Yes | 0.7 (0.52, 0.98) | 0.95 (0.81, 1.08) | 1.29 (1, 1.73) |
| No | 2.47 (1.75, 5.1) | 1.15 (0.82, 1.74) | 0.8 (0.64, 0.98) |
| Missing | 0.9 (0.47, 1.5) | 1.07 (0.7, 1.67) | 4.67 (3.25, 6.56) |
| **Pulmonary complication** |  |  |  |
| Yes |  |  |  |
| No |  | 1.02 (1, 1.03) |  |
| Missing | 0.83 (0.33, 1.5) | 0.91 (0.55, 1.5) | 16.5 (7.75, 33) |
| **Septic complication** |  |  |  |
| Yes |  | 0.73 (0.26, 2.5) | 0.32 (0.17, 1.33) |
| No |  | 1.01 (0.97, 1.05) | 1.01 (0.98, 1.03) |
| Missing | 0.83 (0.33, 1.5) | 0.83 (0.5, 1.33) | 33 (20, 42) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 1 (0.33, 1.67) | 0.91 (0.55, 1.5) | 32 (19, 41) |
| **Coagulopathy** |  |  |  |
| Yes |  |  |  |
| No | 0.96 (0.87, 1) |  |  |
| Missing | 0.83 (0.33, 1.5) | 0.83 (0.5, 1.3) | 32 (19, 41) |
| **Need for reexploration or resurgery** |  |  |  |
| Yes |  | 0.76 (0.33, 2.9) |  |
| No |  | 1 (0.96, 1.01) | 0.97 (0.92, 0.97) |
| Missing | 1.5 (0.6, 3) | 1 (0.56, 1.5) | 42 (32, 52) |
| **Failure of conservative management** |  |  |  |
| No | 0.92 (0.8, 0.96) | 1 (0.95, 1.01) | 0.98 (0.94, 0.98) |
| Yes |  | 0.73 (0.18, 2.51) |  |
| Missing | 0.3 (0.11, 0.67) | 1.09 (0.67, 1.75) | 22 (11, 45) |
| **EQ-5D mobility at discharge** |  |  |  |
| I have no problems in walking | 1.33 (1.04, 1.76) | 1.11 (1.01, 1.23) | 1 (0.84, 1.19) |
| I have some problems in walking | 1.33 (0.73, 3.97) | 0.42 (0.17, 1.05) | 1.06 (0.68, 1.7) |
| I am confined to bed |  | 0.67 (0.27, 2.28) | 0.9 (0.55, 1.35) |
| Missing | 2.5 (1.17, 4.67) | 0.81 (0.52, 1.31) | 21.5 (10.5, 43) |
| **EQ-5D self-care at discharge** |  |  |  |
| I have no problems with self-care | 1.16 (0.82, 1.72) | 1.06 (0.96, 1.19) | 0.85 (0.71, 1.02) |
| I have some problems bathing or dressing myself | 0.65 (0.19, 1.85) | 0.69 (0.32, 1.43) | 2.07 (1.38, 3.8) |
| I am unable to bathe or dress myself | 0.88 (0.39, 2) | 0.92 (0.44, 2.92) | 0.73 (0.46, 1) |
| Missing | 2.5 (1.17, 4.67) | 0.81 (0.52, 1.31) | 21.5 (10.5, 43) |
| **EQ-5D usual activities at discharge** |  |  |  |
| I have no problems in performing my usual activities | 1.22 (0.79, 1.86) | 1.12 (0.99, 1.26) | 0.87 (0.73, 1.07) |
| I have some problems in performing my usual activities | 0.88 (0.38, 2.1) | 0.55 (0.25, 1.03) | 1.36 (1.03, 1.96) |
| I am unable to perform my usual activities | 0.68 (0.28, 1.79) | 0.68 (0.3, 1.75) | 0.83 (0.49, 1.28) |
| Missing | 2.5 (1.17, 4.67) | 0.81 (0.52, 1.31) | 21.5 (10.5, 43) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| I have no pain or discomfort | 1.52 (0.88, 2.76) | 1.91 (1.41, 2.5) | 0.76 (0.55, 1.04) |
| I have moderate pain or discomfort | 0.75 (0.51, 1.07) | 0.48 (0.36, 0.62) | 0.85 (0.68, 1.19) |
| I have extreme pain or discomfort |  | 2.08 (1.35, 4.77) | 1.54 (1.1, 2.09) |
| Missing | 2.5 (1.17, 4.67) | 0.81 (0.52, 1.31) | 21.5 (10.5, 43) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| I am not anxious or depressed | 1.66 (1.17, 2.5) | 1.3 (1.17, 1.48) | 1.16 (1.07, 1.32) |
| I am moderately anxious or depressed | 0.34 (0.14, 0.68) | 0.21 (0.09, 0.43) | 0.38 (0.21, 0.73) |
| I am extremely anxious or depressed |  |  | 0.65 (0.35, 1.68) |
| Missing | 2.5 (1.17, 4.67) | 0.81 (0.52, 1.31) | 21.5 (10.5, 43) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| I have no problems in walking | 1.19 (0.83, 1.86) | 1.08 (1.02, 1.15) | 1.18 (1.01, 1.4) |
| I have some problems in walking | 1.18 (0.8, 3.21) |  | 1.31 (0.74, 2.65) |
| I am confined to bed |  | 0.74 (0.37, 3.22) | 0.26 (0.12, 0.46) |
| Missing | 0.8 (0.42, 1.29) | 1.07 (0.68, 1.64) | 5.9 (4.06, 9) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| I have no problems with self-care | 0.96 (0.8, 1.53) | 1.07 (1.01, 1.14) | 1.11 (0.97, 1.29) |
| I have some problems bathing or dressing myself | 0.59 (0.33, 1.81) |  | 2.31 (1.17, 5.15) |
| I am unable to bathe or dress myself |  | 0.72 (0.23, 2.37) | 0.26 (0.13, 0.46) |
| Missing | 0.8 (0.42, 1.29) | 1.07 (0.68, 1.64) | 5.9 (4.06, 9) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| I have no problems in performing my usual activities | 0.75 (0.62, 0.85) | 1.04 (0.97, 1.11) | 1.14 (1, 1.33) |
| I have some problems in performing my usual activities |  | 0.36 (0, 1.7) | 0.63 (0.39, 1.15) |
| I am unable to perform my usual activities |  | 0.72 (0.23, 2.37) | 0.71 (0.32, 1.55) |
| Missing | 0.8 (0.42, 1.29) | 1.07 (0.68, 1.64) | 5.9 (4.06, 9) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| I have no pain or discomfort | 1.19 (0.87, 1.88) | 1.12 (1, 1.26) | 1.07 (0.95, 1.26) |
| I have moderate pain or discomfort | 0.61 (0.32, 1.46) | 0.67 (0.39, 1.15) | 0.73 (0.47, 1.12) |
| I have extreme pain or discomfort |  |  |  |
| Missing | 0.8 (0.42, 1.29) | 1.07 (0.68, 1.64) | 5.9 (4.06, 9) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| I am not anxious or depressed | 0.85 (0.71, 0.92) | 1.13 (1.07, 1.23) | 0.98 (0.94, 1.03) |
| I am moderately anxious or depressed |  | 0.28 (0, 0.68) | 1.22 (0.77, 2.71) |
| I am extremely anxious or depressed |  |  |  |
| Missing | 0.8 (0.42, 1.29) | 1.07 (0.68, 1.64) | 5.9 (4.06, 9) |
| **Patient satisfaction** |  |  |  |
| Very satisfied | 1.23 (0.97, 1.67) | 1.29 (1.14, 1.4) | 1.04 (0.91, 1.21) |
| Somewhat satisfied | 0.36 (0.16, 0.83) | 0.36 (0.17, 0.7) | 0.61 (0.39, 0.88) |
| Somewhat dissatisfied |  |  | 1.22 (0.59, 2.46) |
| Very dissatisfied |  |  | 2.23 (1.43, 3.85) |
| Missing | 2 (0.53, 4) | 0.5 (0.14, 1) | 11.5 (5.4, 23) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 0.3 (0.11, 0.67) | 1.38 (0.78, 2.33) | 17 (8.5, 35) |
| **EQ-5D health state at discharge** | 1.08 (0.8, 1.46) | 1.12 (0.89, 1.12) | 1 (0.38, 10) |
| Missing | 2 (1, 3.33) | 1.19 (0.8, 1.82) | 4.8 (3.15, 7) |
| **EQ-5D health state at 30 day follow-up** | 0.83 (0.75, 0.95) |  | 8.3 (0.91, 10.56) |
| Missing | 0.8 (0.42, 1.29) | 1.13 (0.71, 1.67) | 4.36 (2.95, 5.83) |
| **Cost of treatment** | 0.71 (0.36, 2.53) | 0.74 (0.32, 1.2) | 0.18 (0.06, 0.67) |
| Missing | 1.5 (0.94, 2.09) | 1.17 (0.81, 1.7) | 3.91 (2.93, 4.95) |

## Absolute and relative differences in outcomes after training, comparing standard care with ATLS

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 12.2 (9, 22) | 4.21 (3.4, 15.71) |
| No | -12 (-22.86, -10) | 0.88 (0.78, 0.91) |
| Missing | 24 (25, 39) | 13 (22, 40) |
| **24 hour mortality** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 5 (3, 13) | 3.5 (4, 14) |
| **In-hospital mortality** |  |  |
| Yes | 8.3 (5.2, 15.6) | 3.24 (2.55, 13.36) |
| No | -8 (-16, -6) | 0.92 (0.84, 0.95) |
| Missing | 1 (-2, 3) | 2 (2, 5) |
| **Self-ambulatory at discharge** |  |  |
| Yes | -1 (-7, 0) | 0.99 (0.95, 1.01) |
| No | 1.5 (0, 6.54) |  |
| Missing | 20 (-3, 30) | 6 (0.36, 27) |
| **Return to work** |  |  |
| Yes | -5 (-23, 20) | 0.91 (0.69, 1.4) |
| No | 5 (-21, 22) | 1.12 (0.58, 1.88) |
| Missing | 47 (45, 63) | 6.22 (7.31, 53) |
| **Pulmonary complication** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 28 (25, 46.61) | 6.6 (8, 43) |
| **Septic complication** |  |  |
| Yes | 0.8 (-1.4, 5.64) |  |
| No | -1 (-7.29, 0) | 0.99 (0.93, 1.01) |
| Missing | 28 (25, 45.19) | 6.6 (7.82, 43) |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 27 (24, 44.91) | 6.4 (7.5, 42) |
| **Coagulopathy** |  |  |
| Yes | -4.3 (-16, -6.3) |  |
| No | 4 (4, 16) | 1.04 (1.04, 1.19) |
| Missing | 27 (24, 44.91) | 6.4 (7.5, 42) |
| **Need for reexploration or resurgery** |  |  |
| Yes | 2.5 (1.8, 7.61) |  |
| No | -3 (-8, -4) | 0.97 (0.92, 0.97) |
| Missing | 36 (32.6, 54.89) | 7 (7.18, 48) |
| **Failure of conservative management** |  |  |
| No | 6 (7.06, 26) | 1.07 (1.1, 1.36) |
| Yes | -6.3 (-26, -9.11) | 0.21 (0, 0.89) |
| Missing | 41 (40, 56) | 14.67 (26.5, 55) |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | -27 (-40, 9.75) | 0.7 (0.57, 1.12) |
| I have some problems in walking | 8 (-12.3, 19) | 1.73 (0.25, 6.87) |
| I am confined to bed | 19 (17, 28.98) |  |
| Missing | 33 (27, 47.79) | 4.3 (4, 20.5) |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | -17 (-40, 36) | 0.75 (0.55, 1.72) |
| I have some problems bathing or dressing myself | 20 (-14, 31.37) | 2.82 (0.42, 8.23) |
| I am unable to bathe or dress myself | -3 (-18, 14.26) | 0.86 (0.18, 3.44) |
| Missing | 33 (27, 47.79) | 4.3 (4, 20.5) |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | -14 (-42.53, 40) | 0.77 (0.51, 1.87) |
| I have some problems in performing my usual activities | 16 (-30, 34.16) | 1.73 (0.21, 6.79) |
| I am unable to perform my usual activities | -2 (-15.46, 9.2) | 0.88 (0.21, 2.6) |
| Missing | 33 (27, 47.79) | 4.3 (4, 20.5) |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -25 (-46, 40) | 0.5 (0.32, 2.35) |
| I have moderate pain or discomfort | -15 (-49, -15) | 0.7 (0.27, 0.77) |
| I have extreme pain or discomfort | 40 (38.64, 55) |  |
| Missing | 33 (27, 47.79) | 4.3 (4, 20.5) |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | 9 (8, 36) | 1.11 (1.11, 1.68) |
| I am moderately anxious or depressed | -10.2 (-39.9, -13.27) | 0.4 (0, 0.57) |
| I am extremely anxious or depressed | 1.7 (0, 4.76) |  |
| Missing | 33 (27, 47.79) | 4.3 (4, 20.5) |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | -3 (-23, 23) | 0.96 (0.77, 1.32) |
| I have some problems in walking | -3 (-21, 18) | 0.85 (0.62, 5.21) |
| I am confined to bed | 5.9 (5.1, 14.68) |  |
| Missing | 51 (49, 69) | 7.38 (8.71, 53) |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | -1 (-19, 21) | 0.99 (0.8, 1.27) |
| I have some problems bathing or dressing myself | 5 (-16, 17) | 1.5 (2.01, 4.17) |
| I am unable to bathe or dress myself | -4.1 (-26.91, -2.6) | 0.59 (0, 1.13) |
| Missing | 51 (49, 69) | 7.38 (8.71, 53) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | 6 (-14.58, 20) | 1.08 (0.85, 1.28) |
| I have some problems in performing my usual activities | -3 (-14, 11.5) | 0.8 (0.11, 7.78) |
| I am unable to perform my usual activities | -3.1 (-15.84, 0.6) | 0.69 (0, 1.68) |
| Missing | 51 (49, 69) | 7.38 (8.71, 53) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | -1 (-12, 11) | 0.99 (0.86, 1.14) |
| I have moderate pain or discomfort | -1 (-13, 7) | 0.95 (0.48, 1.64) |
| I have extreme pain or discomfort | 2 (0.9, 6.95) |  |
| Missing | 51 (49, 69) | 7.38 (8.71, 53) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | 10 (11, 36) | 1.12 (1.15, 1.58) |
| I am moderately anxious or depressed | -11.1 (-35.8, -12.99) | 0.26 (0, 0.41) |
| I am extremely anxious or depressed | 1 (0, 3.61) |  |
| Missing | 51 (49, 69) | 7.38 (8.71, 53) |
| **Patient satisfaction** |  |  |
| Very satisfied | -9 (-27, 24) | 0.89 (0.71, 1.35) |
| Somewhat satisfied | 1 (-11.4, 10.86) | 1.08 (0.27, 3.33) |
| Somewhat dissatisfied | 5.2 (-9.5, 12) | 2.24 (2.61, 4.12) |
| Very dissatisfied | 1.6 (-6.8, 7.11) | 1.38 (1.79, 3.95) |
| Missing | 19 (-1, 29) | 5.75 (0.67, 26) |
| **Number of hospitalizations for this injury** |  |  |
| Missing | 31 (30, 47) | 11.33 (19.97, 48) |
| **EQ-5D health state at discharge** | -15 (-50, 40) | 0.77 (0.33, 1.8) |
| Missing | 38 (36.51, 53) | 4.8 (5.61, 23) |
| **EQ-5D health state at 30 day follow-up** | 0 (-20, 20) | 1 (0.8, 1.25) |
| Missing | 53 (52, 73) | 7.62 (9.4, 53) |
| **Cost of treatment** | -2500 (-33500, -1750) | 0.5 (0, 0.75) |
| Missing | 69 (53, 89) | 4.29 (3.24, 8.29) |

## Absolute and relative differences in outcomes after training, comparing standard care with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 11.1 (3, 19) | 3.27 (2.08, 10.99) |
| No | -11 (-19.66, -4) | 0.88 (0.8, 0.97) |
| Missing | 14 (-10, 26) | 2.17 (0, 5) |
| **24 hour mortality** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -1 (-15.87, 0) | 0.88 (0, 1.43) |
| **In-hospital mortality** |  |  |
| Yes | 7.9 (2.7, 15) | 2.93 (2.06, 10.43) |
| No | -8 (-15, -4.17) | 0.92 (0.85, 0.97) |
| Missing | 2 (0, 5) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 2 (1, 12) | 1.02 (1.02, 1.14) |
| No | -1.4 (-12, -1.4) |  |
| Missing | 21 (16, 32) | 8 (5.75, 30.23) |
| **Return to work** |  |  |
| Yes | -17 (-41, -16) | 0.76 (0.42, 0.79) |
| No | 17 (14, 41) | 1.57 (1.5, 6.48) |
| Missing | 40 (4, 56) | 3.5 (0.73, 8.25) |
| **Pulmonary complication** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 23 (2, 35) | 3.3 (0.4, 8.25) |
| **Septic complication** |  |  |
| Yes | -2.4 (-8.7, -3.2) |  |
| No | 2 (1, 9) | 1.02 (1.03, 1.1) |
| Missing | 23 (3, 35) | 3.3 (0.42, 8.25) |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 22 (2, 34) | 3.2 (0.4, 8) |
| **Coagulopathy** |  |  |
| Yes | 0 (-11, 0) |  |
| No | 0 (-17, -5) | 1 (0.83, 0.95) |
| Missing | 22 (2, 34) | 3.2 (0.4, 8) |
| **Need for reexploration or resurgery** |  |  |
| Yes | 0.9 (-3.03, 2.7) |  |
| No | -1 (-4, 2) | 0.99 (0.97, 1.02) |
| Missing | 32 (3, 46) | 4.2 (0.81, 10.5) |
| **Failure of conservative management** |  |  |
| No | 0 (-17.51, 2) | 1 (0.83, 1.02) |
| Yes | 0.1 (-3, 15.66) | 1.06 (0.91, 17) |
| Missing | 32 (4, 47) | 3.67 (0.07, 10) |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | -30 (-45.63, -26) | 0.67 (0.55, 0.73) |
| I have some problems in walking | 14 (11.86, 30.06) | 3.8 (4.21, 16.11) |
| I am confined to bed | 15.7 (1.6, 24) |  |
| Missing | 30 (2, 44) | 3.31 (1.07, 7.17) |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | -35 (-52, -37) | 0.59 (0.44, 0.58) |
| I have some problems bathing or dressing myself | 22.7 (17, 39.66) | 3.73 (2.83, 18.28) |
| I am unable to bathe or dress myself | 12.3 (9, 43.45) | 2.84 (2.41, 20) |
| Missing | 30 (2, 44) | 3.31 (1.07, 7.17) |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | -38 (-61, -40) | 0.55 (0.35, 0.54) |
| I have some problems in performing my usual activities | 29.7 (29.8, 46.5) | 4.58 (4.94, 26.47) |
| I am unable to perform my usual activities | 8.3 (4.49, 28.03) | 2.24 (1.79, 17.88) |
| Missing | 30 (2, 44) | 3.31 (1.07, 7.17) |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -40 (-62, -40) | 0.38 (0.21, 0.39) |
| I have moderate pain or discomfort | 5 (-1, 43.95) | 1.17 (1.03, 3.38) |
| I have extreme pain or discomfort | 35 (1.89, 45) |  |
| Missing | 30 (2, 44) | 3.31 (1.07, 7.17) |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | -3 (-27, 0) | 0.97 (0.72, 1.01) |
| I am moderately anxious or depressed | 1.8 (-2.25, 26.57) | 1.36 (1.02, 16.77) |
| I am extremely anxious or depressed | 1.7 (0, 4.79) |  |
| Missing | 30 (2, 44) | 3.31 (1.07, 7.17) |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | -21 (-50, -24) | 0.79 (0.5, 0.77) |
| I have some problems in walking | 17 (17, 50) |  |
| I am confined to bed | 4.2 (0, 9.23) |  |
| Missing | 44 (3, 59) | 3.93 (0.69, 9.83) |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | -18 (-39, -20) | 0.81 (0.61, 0.8) |
| I have some problems bathing or dressing myself | 15 (15, 33) |  |
| I am unable to bathe or dress myself | 2.5 (-0.26, 18) | 1.74 (1.38, 11.76) |
| Missing | 44 (3, 59) | 3.93 (0.69, 9.83) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | -14 (-46, -15) | 0.85 (0.52, 0.85) |
| I have some problems in performing my usual activities | 10.3 (9.8, 41.2) | 7.06 (11.16, 23.89) |
| I am unable to perform my usual activities | 3.5 (1.2, 18.85) | 2.03 (1.93, 11.76) |
| Missing | 44 (3, 59) | 3.93 (0.69, 9.83) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | -7 (-23.17, -3) | 0.92 (0.76, 0.98) |
| I have moderate pain or discomfort | 5 (-1, 20) | 1.36 (1, 4.95) |
| I have extreme pain or discomfort | 2 (0.9, 7.28) |  |
| Missing | 44 (3, 59) | 3.93 (0.69, 9.83) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | -2 (-38.01, -1) | 0.98 (0.64, 1) |
| I am moderately anxious or depressed | 0.5 (-2.2, 29.07) | 1.15 (0.83, 27.15) |
| I am extremely anxious or depressed | 1 (0, 3.9) |  |
| Missing | 44 (3, 59) | 3.93 (0.69, 9.83) |
| **Patient satisfaction** |  |  |
| Very satisfied | -24 (-39, -26) | 0.74 (0.6, 0.74) |
| Somewhat satisfied | 8.3 (6.44, 29.62) | 2.46 (2.22, 19.33) |
| Somewhat dissatisfied | 9.4 (9, 17) |  |
| Very dissatisfied | 5.8 (4.7, 13) |  |
| Missing | 20 (15, 31) | 7.67 (5.5, 30.23) |
| **Number of hospitalizations for this injury** |  |  |
| Missing | 23 (3, 36) | 3.09 (0.08, 7.4) |
| **EQ-5D health state at discharge** | -40 (-89, -49.67) | 0.56 (0.06, 0.56) |
| Missing | 29 (2, 45) | 2.53 (0.48, 5.61) |
| **EQ-5D health state at 30 day follow-up** | -17 (-91, -10) | 0.83 (0.09, 0.9) |
| Missing | 44 (3, 61) | 3.59 (0.42, 9.39) |
| **Cost of treatment** | 1000 (-1000, 9000.8) | 1.67 (1, 14.93) |
| Missing | 69 (14.86, 88.27) | 4.29 (1.64, 7.59) |

## Absolute and relative differences in outcomes after training, comparing ATLS with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | -1.1 (-18.04, 3.3) | 0.78 (0, 2.21) |
| No | 1 (-5, 18) | 1.01 (0.96, 1.22) |
| Missing | -10 (-37, -10) | 0.17 (0, 0.16) |
| **24 hour mortality** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -6 (-15, -8) | 0.25 (0, 0.17) |
| **In-hospital mortality** |  |  |
| Yes | -0.4 (-13, 4.3) | 0.9 (0, 2.29) |
| No | 0 (-6, 11) | 1 (0.94, 1.13) |
| Missing | 1 (0, 4) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 3 (3, 14) | 1.03 (1.03, 1.16) |
| No | -2.9 (-14, -3.9) |  |
| Missing | 1 (-17.48, 18.69) | 1.33 (0.17, 6.5) |
| **Return to work** |  |  |
| Yes | -12 (-37.81, -8) | 0.83 (0.49, 0.92) |
| No | 12 (6, 37) | 1.4 (1.26, 3.31) |
| Missing | -7 (-59, -4) | 0.56 (0.05, 0.74) |
| **Pulmonary complication** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -5 (-42, -4) | 0.5 (0, 0.62) |
| **Septic complication** |  |  |
| Yes | -3.2 (-8.2, -4.54) |  |
| No | 3 (3, 8) | 1.03 (1.03, 1.09) |
| Missing | -5 (-41, -4) | 0.5 (0, 0.62) |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -5 (-39, -4) | 0.5 (0, 0.62) |
| **Coagulopathy** |  |  |
| Yes | 4.3 (5.72, 16) |  |
| No | -4 (-16, -6) | 0.96 (0.84, 0.94) |
| Missing | -5 (-39, -4) | 0.5 (0, 0.62) |
| **Need for reexploration or resurgery** |  |  |
| Yes | -1.6 (-7.7, -1.8) |  |
| No | 2 (1, 8) | 1.02 (1.01, 1.09) |
| Missing | -4 (-46, -3) | 0.6 (0, 0.83) |
| **Failure of conservative management** |  |  |
| No | -6 (-26, -8.52) | 0.94 (0.73, 0.92) |
| Yes | 6.4 (8.3, 26.4) | 5 (8.45, 27.14) |
| Missing | -9 (-52, -8) | 0.25 (0, 0.25) |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | -3 (-29, 19) | 0.97 (0.68, 1.3) |
| I have some problems in walking | 6 (-4.5, 19.44) | 2.2 (1.38, 11.79) |
| I am confined to bed | -3.3 (-26, -1.8) |  |
| Missing | -3 (-48.57, -1) | 0.77 (0.12, 0.92) |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | -18 (-46, -3) | 0.79 (0.54, 1.13) |
| I have some problems bathing or dressing myself | 2.7 (-18, 20.83) | 1.33 (0.34, 4.45) |
| I am unable to bathe or dress myself | 15.3 (16.34, 42.8) | 3.28 (3.52, 20) |
| Missing | -3 (-48.57, -1) | 0.77 (0.12, 0.92) |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | -24 (-59.75, -18) | 0.72 (0.42, 0.9) |
| I have some problems in performing my usual activities | 13.7 (-5, 37.03) | 2.65 (2.11, 22.32) |
| I am unable to perform my usual activities | 10.3 (9.46, 50.3) | 2.54 (2.56, 18.33) |
| Missing | -3 (-48.57, -1) | 0.77 (0.12, 0.92) |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -15 (-44, 15) | 0.77 (0.37, 1.47) |
| I have moderate pain or discomfort | 20 (25, 49) | 1.67 (1.88, 4.46) |
| I have extreme pain or discomfort | -5 (-49, -2) |  |
| Missing | -3 (-48.57, -1) | 0.77 (0.12, 0.92) |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | -12 (-43, -16) | 0.87 (0.55, 0.84) |
| I am moderately anxious or depressed | 12 (14.6, 42.8) | 3.4 (4.65, 22.31) |
| I am extremely anxious or depressed | 0 (-6.8, -1.5) |  |
| Missing | -3 (-48.57, -1) | 0.77 (0.12, 0.92) |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | -18 (-55, -19.31) | 0.82 (0.45, 0.82) |
| I have some problems in walking | 20 (24, 55) |  |
| I am confined to bed | -1.7 (-12, -1.5) |  |
| Missing | -7 (-65, -5) | 0.53 (0.05, 0.67) |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | -17 (-38, -20) | 0.82 (0.61, 0.81) |
| I have some problems bathing or dressing myself | 10 (5, 27.53) |  |
| I am unable to bathe or dress myself | 6.6 (7.57, 24.3) | 2.94 (4.27, 13.89) |
| Missing | -7 (-65, -5) | 0.53 (0.05, 0.67) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | -20 (-46, -26) | 0.79 (0.53, 0.73) |
| I have some problems in performing my usual activities | 13.3 (15, 38) | 8.82 (19.1, 21.11) |
| I am unable to perform my usual activities | 6.6 (7.4, 24) | 2.94 (4.15, 13.89) |
| Missing | -7 (-65, -5) | 0.53 (0.05, 0.67) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | -6 (-24, -2) | 0.93 (0.74, 0.99) |
| I have moderate pain or discomfort | 6 (1, 24.17) | 1.43 (1.09, 4.25) |
| I have extreme pain or discomfort | 0 (-6.6, -1.9) |  |
| Missing | -7 (-65, -5) | 0.53 (0.05, 0.67) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | -12 (-34, -15) | 0.88 (0.65, 0.85) |
| I am moderately anxious or depressed | 11.6 (13.44, 34.4) | 4.41 (5.27, 23.75) |
| I am extremely anxious or depressed | 0 (-4.8, -1.99) |  |
| Missing | -7 (-65, -5) | 0.53 (0.05, 0.67) |
| **Patient satisfaction** |  |  |
| Very satisfied | -15 (-34.51, -11) | 0.84 (0.66, 0.91) |
| Somewhat satisfied | 7.3 (5.19, 26.63) | 2.28 (1.96, 12.14) |
| Somewhat dissatisfied | 4.2 (-1.53, 13) |  |
| Very dissatisfied | 4.2 (1.7, 13.19) |  |
| Missing | 1 (-16, 17) | 1.33 (0.17, 6.25) |
| **Number of hospitalizations for this injury** |  |  |
| Missing | -8 (-44, -7) | 0.27 (0, 0.27) |
| **EQ-5D health state at discharge** | -25 (-82.17, -18) | 0.72 (0.07, 1) |
| Missing | -9 (-55, -6) | 0.53 (0.08, 0.58) |
| **EQ-5D health state at 30 day follow-up** | -17 (-91, -17.87) | 0.83 (0.09, 0.83) |
| Missing | -9 (-67, -8) | 0.47 (0.04, 0.53) |
| **Cost of treatment** | 3500 (3361.31, 33000) | 3.33 (3.33, 55.56) |
| Missing | 0 (-80, 9.94) | 1 (0.17, 1.55) |

## Absolute and relative differences in changes from baseline for all outcomes, comparing standard care with ATLS

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 9.6 (-16.97, 24.4) |  |
| No | -9 (-24, 17) |  |
| Missing | 23 (19, 38.99) |  |
| **24 hour mortality** |  |  |
| Yes | -2.4 (-9.47, 0) |  |
| No | 2 (0, 7) |  |
| Missing | 7 (5, 15) |  |
| **In-hospital mortality** |  |  |
| Yes | 3.4 (-9.59, 14.8) |  |
| No | -3 (-15, 9) |  |
| Missing | 1 (-2, 3) | 2 (2, 5) |
| **Self-ambulatory at discharge** |  |  |
| Yes | -4 (-26.16, -2) |  |
| No | 4.7 (1.5, 25.76) |  |
| Missing | 22 (-22, 34) |  |
| **Return to work** |  |  |
| Yes | 37 (40, 86) |  |
| No | -37 (-86, -40.96) |  |
| Missing | 45 (35, 65) |  |
| **Pulmonary complication** |  |  |
| Yes | 0 (-8.83, 0) |  |
| No | 0 (-7, 0) |  |
| Missing | 32 (6, 46) |  |
| **Septic complication** |  |  |
| Yes | -1.7 (-8.9, 1.5) |  |
| No | 1 (-4, 6) |  |
| Missing | 33 (0, 48) |  |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 31 (-1, 46) |  |
| **Coagulopathy** |  |  |
| Yes | -4.3 (-16, -6.3) |  |
| No | 4 (4, 16) |  |
| Missing | 32 (0.84, 46) |  |
| **Need for reexploration or resurgery** |  |  |
| Yes | 2.5 (-0.4, 7.8) |  |
| No | -3 (-10, -2) |  |
| Missing | 39 (-3, 55) | 20.5 (35.89, 58) |
| **Failure of conservative management** |  |  |
| No | 6 (5, 26) |  |
| Yes | -6.3 (-26, -6.18) |  |
| Missing | 49 (47, 66) |  |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | -22 (-78, -21) |  |
| I have some problems in walking | -1.7 (-18.7, 10.7) |  |
| I am confined to bed | 23 (24, 63) |  |
| Missing | 35 (-41, 53) |  |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | -18 (-50, -12) |  |
| I have some problems bathing or dressing myself | 22 (16.9, 53.09) |  |
| I am unable to bathe or dress myself | -4 (-25, 6.9) |  |
| Missing | 35 (-41, 53) |  |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | -18 (-51.91, -7) |  |
| I have some problems in performing my usual activities | 13 (-4.95, 37.86) |  |
| I am unable to perform my usual activities | 5 (-4.6, 24.35) |  |
| Missing | 35 (-41, 53) |  |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -25 (-53, 32) |  |
| I have moderate pain or discomfort | 11 (-26, 38) |  |
| I have extreme pain or discomfort | 14 (7, 33.04) |  |
| Missing | 35 (-41, 53) |  |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | -20 (-73, -18) | 0.39 (-10.49, 0.69) |
| I am moderately anxious or depressed | 21.8 (19.92, 68) | 0.34 (-21.96, 0.54) |
| I am extremely anxious or depressed | -0.9 (-6.4, 2.3) |  |
| Missing | 35 (-41, 53) |  |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | -1 (-21, 14.41) |  |
| I have some problems in walking | 1 (-19, 17.45) |  |
| I am confined to bed | -0.1 (-21.1, 23.19) |  |
| Missing | 51 (44, 71) |  |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | 11 (6, 49.82) |  |
| I have some problems bathing or dressing myself | 15.5 (10.15, 49.8) |  |
| I am unable to bathe or dress myself | -27.1 (-60.9, -29.95) |  |
| Missing | 51 (44, 71) |  |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | 35 (38, 76) |  |
| I have some problems in performing my usual activities | -22 (-64, -25) |  |
| I am unable to perform my usual activities | -12.8 (-38.4, -14.24) |  |
| Missing | 51 (44, 71) |  |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | -8 (-41.33, 2) |  |
| I have moderate pain or discomfort | 6 (-6, 32.34) |  |
| I have extreme pain or discomfort | 2 (-2.86, 7.52) |  |
| Missing | 51 (44, 71) |  |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | 13 (3, 35.74) |  |
| I am moderately anxious or depressed | -14.3 (-39.36, -11.98) |  |
| I am extremely anxious or depressed | 1 (-2.3, 6.1) |  |
| Missing | 51 (44, 71) |  |
| **Patient satisfaction** |  |  |
| Very satisfied | -12 (-34, 12.2) |  |
| Somewhat satisfied | 14 (13, 53.3) | 0.39 (-6.56, 1.02) |
| Somewhat dissatisfied | -2.5 (-13.5, 5.27) |  |
| Very dissatisfied | -1 (-15.71, 11.54) |  |
| Missing | 19 (-20, 31) |  |
| **Number of hospitalizations for this injury** | 0 (-1, -1) |  |
| Missing | 39 (39, 57) |  |
| **EQ-5D health state at discharge** | -5 (-45, 38.31) |  |
| Missing | 33 (-1, 52) |  |
| **EQ-5D health state at 30 day follow-up** | 90 (101, 116) |  |
| Missing | 49 (42, 69) |  |
| **Cost of treatment** | -9500 (-47305.35, -124.94) |  |
| Missing | 60 (-6, 85) | 9.57 (5.33, 83.95) |

## Absolute and relative differences in changes from baseline for all outcomes, comparing standard care with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 18.5 (21.15, 44.3) |  |
| No | -18 (-44, -21.15) |  |
| Missing | 19 (3, 31) |  |
| **24 hour mortality** |  |  |
| Yes | -2.4 (-9.7, 0) |  |
| No | 2 (0, 7) |  |
| Missing | 4 (-5, 8) |  |
| **In-hospital mortality** |  |  |
| Yes | 10 (9.8, 25.8) |  |
| No | -10 (-26, -11) |  |
| Missing | 2 (0, 5) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 3 (-1.61, 20) |  |
| No | -2.4 (-19.05, 2) |  |
| Missing | 27 (25, 49) |  |
| **Return to work** |  |  |
| Yes | 16 (-36, 37) |  |
| No | -16 (-40.6, 34) |  |
| Missing | 43 (8, 61.99) |  |
| **Pulmonary complication** |  |  |
| Yes | 2.2 (2.4, 10) |  |
| No | -2 (-10, -4) |  |
| Missing | 32 (21, 46.41) |  |
| **Septic complication** |  |  |
| Yes | -0.5 (-4.32, 4) |  |
| No | 0 (-7, 2) |  |
| Missing | 34 (26, 49.23) |  |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 32 (25, 48) |  |
| **Coagulopathy** |  |  |
| Yes | 0 (-11, 0) |  |
| No | 0 (-17, -5) |  |
| Missing | 33 (26, 49) |  |
| **Need for reexploration or resurgery** |  |  |
| Yes | 3 (1.8, 7.84) |  |
| No | -3 (-10.41, -3) |  |
| Missing | 41 (35, 58) |  |
| **Failure of conservative management** |  |  |
| No | -2 (-27, -2) |  |
| Yes | 2.3 (1.6, 26.92) |  |
| Missing | 41 (2, 56) |  |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | -9 (-28, 19) |  |
| I have some problems in walking | 8 (2.3, 31.69) |  |
| I am confined to bed | -0.4 (-52.36, 6.13) |  |
| Missing | 44 (43.87, 74) |  |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | -14 (-47, 5) |  |
| I have some problems bathing or dressing myself | 19.7 (7.03, 51.78) |  |
| I am unable to bathe or dress myself | -6.4 (-32, 5.66) |  |
| Missing | 44 (43.87, 74) |  |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | -16 (-51.35, 1) |  |
| I have some problems in performing my usual activities | 16.7 (2, 45.1) |  |
| I am unable to perform my usual activities | 0.1 (-19.71, 15.66) |  |
| Missing | 44 (43.87, 74) |  |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -39 (-78.7, -36) |  |
| I have moderate pain or discomfort | 27 (22, 60.83) |  |
| I have extreme pain or discomfort | 11.4 (3, 29) |  |
| Missing | 44 (43.87, 74) |  |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | -9 (-31, 17) | 0.59 (0.23, 2.5) |
| I am moderately anxious or depressed | 7.8 (-21.98, 27.31) | 0.59 (0.25, 3) |
| I am extremely anxious or depressed | 1.5 (0.1, 11.76) |  |
| Missing | 44 (43.87, 74) |  |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | 5 (-15, 34.76) |  |
| I have some problems in walking | 11 (-0.41, 52.19) |  |
| I am confined to bed | -16.5 (-82.9, -14.71) |  |
| Missing | 48 (7, 67) |  |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | 2 (-34.49, 18) |  |
| I have some problems bathing or dressing myself | 13.2 (-1.13, 53.91) |  |
| I am unable to bathe or dress myself | -15.8 (-34.23, 1.1) |  |
| Missing | 48 (7, 67) |  |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | 6 (-59.73, 16) |  |
| I have some problems in performing my usual activities | -4 (-11.3, 42.23) |  |
| I am unable to perform my usual activities | -1.5 (-8.5, 22.27) |  |
| Missing | 48 (7, 67) |  |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | -4 (-36, 16) |  |
| I have moderate pain or discomfort | 0 (-28, 23) |  |
| I have extreme pain or discomfort | 4.3 (4.52, 12.9) |  |
| Missing | 48 (7, 67) |  |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | -13 (-60, -13) |  |
| I am moderately anxious or depressed | 9.3 (7.2, 60.2) |  |
| I am extremely anxious or depressed | 3.3 (4.5, 12.9) |  |
| Missing | 48 (7, 67) |  |
| **Patient satisfaction** |  |  |
| Very satisfied | -18 (-53.26, -11) |  |
| Somewhat satisfied | 1.3 (-24.61, 14.4) |  |
| Somewhat dissatisfied | 5.6 (3.7, 18.56) |  |
| Very dissatisfied | 11 (13, 25) |  |
| Missing | 24 (23, 48) |  |
| **Number of hospitalizations for this injury** | 0 (-1, -1) |  |
| Missing | 29 (2, 45) |  |
| **EQ-5D health state at discharge** | -10 (-64, 15) |  |
| Missing | 35 (27, 53.68) |  |
| **EQ-5D health state at 30 day follow-up** | 73 (61.96, 114) |  |
| Missing | 45 (7, 64.2) |  |
| **Cost of treatment** | -10975 (-48543.27, -2809.19) |  |
| Missing | 64 (56, 90.59) |  |

## Absolute and relative differences in changes from baseline for all outcomes, comparing ATLS with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 8.9 (-1.57, 24.58) |  |
| No | -9 (-25, 0) |  |
| Missing | -4 (-36.78, -2.27) |  |
| **24 hour mortality** |  |  |
| Yes | 0 (-8.6, 0) |  |
| No | 0 (-11, -4) |  |
| Missing | -3 (-15, -2) |  |
| **In-hospital mortality** |  |  |
| Yes | 6.6 (3.2, 21.3) |  |
| No | -7 (-24.21, -6) |  |
| Missing | 1 (0, 4) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 7 (6, 41) |  |
| No | -7.1 (-41.1, -7.1) |  |
| Missing | 5 (-9, 26) |  |
| **Return to work** |  |  |
| Yes | -21 (-89, -20) |  |
| No | 21 (18, 89) |  |
| Missing | -2 (-57.15, 4) |  |
| **Pulmonary complication** |  |  |
| Yes | 2.2 (2.4, 10) |  |
| No | -2 (-10, -4) |  |
| Missing | 0 (-36, 23) |  |
| **Septic complication** |  |  |
| Yes | 1.2 (-1, 8.4) |  |
| No | -1 (-9, 0) |  |
| Missing | 1 (-32, 31) |  |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 1 (-30, 29) |  |
| **Coagulopathy** |  |  |
| Yes | 4.3 (5.72, 16) |  |
| No | -4 (-16, -6) |  |
| Missing | 1 (-30, 30) |  |
| **Need for reexploration or resurgery** |  |  |
| Yes | 0.5 (-3.4, 3.2) |  |
| No | 0 (-3, 3) |  |
| Missing | 2 (-30.34, 40) |  |
| **Failure of conservative management** |  |  |
| No | -8 (-28, -11) |  |
| Yes | 8.6 (11.1, 28.5) |  |
| Missing | -8 (-67, -5) |  |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | 13 (7, 70.02) |  |
| I have some problems in walking | 9.7 (5, 39.02) |  |
| I am confined to bed | -23.4 (-57.5, -28.77) |  |
| Missing | 9 (-14, 42) |  |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | 4 (-16, 40) |  |
| I have some problems bathing or dressing myself | -2.3 (-33.74, 9.78) |  |
| I am unable to bathe or dress myself | -2.4 (-23.47, 16.4) |  |
| Missing | 9 (-14, 42) |  |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | 2 (-18.48, 39) |  |
| I have some problems in performing my usual activities | 3.7 (-18, 28) |  |
| I am unable to perform my usual activities | -4.9 (-33.35, 6.57) |  |
| Missing | 9 (-14, 42) |  |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -14 (-54, 14.12) |  |
| I have moderate pain or discomfort | 16 (1, 55) |  |
| I have extreme pain or discomfort | -2.6 (-30, 0) |  |
| Missing | 9 (-14, 42) |  |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | 11 (3, 64.2) | 1.5 (1.1, 26.85) |
| I am moderately anxious or depressed | -14 (-67.3, -10.79) | 1.74 (1.44, 28.5) |
| I am extremely anxious or depressed | 2.4 (2.2, 11.4) |  |
| Missing | 9 (-14, 42) |  |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | 6 (-15, 37) | 1.86 (1.33, 42.79) |
| I have some problems in walking | 10 (1, 57.78) |  |
| I am confined to bed | -16.4 (-89.42, -12.1) |  |
| Missing | -3 (-68.49, 1) |  |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | -9 (-63.63, -2) |  |
| I have some problems bathing or dressing myself | -2.3 (-25.32, 14) |  |
| I am unable to bathe or dress myself | 11.3 (11.16, 62.3) |  |
| Missing | -3 (-68.49, 1) |  |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | -29 (-66, -34) |  |
| I have some problems in performing my usual activities | 18 (21.2, 44.9) |  |
| I am unable to perform my usual activities | 11.3 (14.7, 34.5) |  |
| Missing | -3 (-68.49, 1) |  |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | 4 (-18, 34.53) |  |
| I have moderate pain or discomfort | -6 (-41, 11) |  |
| I have extreme pain or discomfort | 2.3 (1.81, 10.67) |  |
| Missing | -3 (-68.49, 1) |  |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | -26 (-49, -34.75) |  |
| I am moderately anxious or depressed | 23.6 (29.23, 46) |  |
| I am extremely anxious or depressed | 2.3 (2.4, 11) |  |
| Missing | -3 (-68.49, 1) |  |
| **Patient satisfaction** |  |  |
| Very satisfied | -6 (-35.2, 9) |  |
| Somewhat satisfied | -12.7 (-57.2, -12.27) |  |
| Somewhat dissatisfied | 8.1 (8.5, 30) |  |
| Very dissatisfied | 12 (13.3, 26) |  |
| Missing | 5 (-8, 24) |  |
| **Number of hospitalizations for this injury** | 0 (-1, -1) |  |
| Missing | -10 (-55, -6) |  |
| **EQ-5D health state at discharge** | -5 (-51.47, 15) |  |
| Missing | 2 (-28, 32) |  |
| **EQ-5D health state at 30 day follow-up** | -17 (-104.11, -5.16) |  |
| Missing | -4 (-69.69, 0) |  |
| **Cost of treatment** | -1475 (-11500, 11956.72) |  |
| Missing | 4 (-43.81, 61) |  |

# Results with 85% confidence level

## Outcomes in all patients during the entire study period, by treatment arm

| Outcome | ATLS, N = 44 | PTC, N = 130 | Standard care, N = 202 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| Yes | 2.5 (0, 9.5) | 7.3 (4, 11) | 13 (8.3, 16) |
| No | 98 (90, 100) | 93 (88, 96) | 87 (82, 90) |
| Missing | 4 (1, 7) | 20 (13, 26) | 29 (21, 36) |
| **24 hour mortality** |  |  |  |
| Yes |  |  | 0.5 (0, 1) |
| No |  |  | 99 (98, 98) |
| Missing | 4 (1, 7) | 13 (8, 17) | 7 (3, 11) |
| **In-hospital mortality** |  |  |  |
| Yes | 2.3 (0, 8.2) | 5.4 (2.7, 8.5) | 11 (7.7, 14) |
| No | 98 (87.19, 100) | 95 (91, 97) | 90 (86, 92) |
| Missing | 1 (0, 2) |  | 2 (0, 3) |
| **Self-ambulatory at discharge** |  |  |  |
| Yes | 97 (81, 98) | 97 (93, 98) | 98 (94.03, 99) |
| No | 2.8 (0, 9.74) | 3.4 (1.6, 6.5) | 2.3 (1.1, 4.5) |
| Missing | 8 (4, 12) | 11 (6, 15) | 26 (18, 32) |
| **Return to work** |  |  |  |
| Yes | 64 (47, 76) | 72 (64, 78) | 51 (44, 57) |
| No | 36 (23, 50) | 28 (20, 34) | 49 (41, 54) |
| Missing | 19 (13, 24) | 31 (23, 38) | 68 (56, 78) |
| **Pulmonary complication** |  |  |  |
| Yes |  | 0.9 (0, 2.2) |  |
| No |  | 99 (95, 99) |  |
| Missing | 11 (7, 15) | 21 (14, 27) | 35 (26, 43) |
| **Septic complication** |  |  |  |
| Yes |  | 3.7 (1.58, 6.9) | 1.2 (0, 2.5) |
| No |  | 96 (91, 97) | 99 (94.62, 99) |
| Missing | 11 (7, 15) | 22 (15, 28) | 34 (25, 41) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 10 (6, 14) | 21 (14, 27) | 33 (24, 40) |
| **Coagulopathy** |  |  |  |
| Yes | 3 (0, 11) |  |  |
| No | 97 (84, 100) |  |  |
| Missing | 11 (7, 15) | 22 (15, 28) | 33 (24, 40) |
| **Need for reexploration or resurgery** |  |  |  |
| Yes |  | 1.8 (0, 4.1) | 1.9 (0.6, 4) |
| No |  | 98 (93, 99) | 98 (94, 98) |
| Missing | 10 (6, 14) | 20 (13, 26) | 43 (34, 52) |
| **Failure of conservative management** |  |  |  |
| No | 94 (82, 97) | 98 (92.94, 99) | 99 (95, 99) |
| Yes | 6.5 (0, 17) | 1.9 (0, 4.7) | 1.3 (0, 3) |
| Missing | 13 (8, 18) | 23 (15, 29) | 46 (36, 54) |
| **EQ-5D mobility at discharge** |  |  |  |
| I have no problems in walking | 80 (67, 88) | 88 (81, 91) | 62 (56, 67) |
| I have some problems in walking | 10 (3.7, 22) | 7.9 (4.9, 13) | 18 (13, 22) |
| I am confined to bed | 10 (3.3, 21) | 4 (1.9, 7.8) | 20 (15, 24) |
| Missing | 14 (9, 20) | 29 (21, 36) | 45 (35, 54) |
| **EQ-5D self-care at discharge** |  |  |  |
| I have no problems with self-care | 63 (47, 73.24) | 83 (76, 87) | 52 (45, 57) |
| I have some problems bathing or dressing myself | 13 (4.03, 23) | 9.9 (5.9, 15) | 27 (21, 31) |
| I am unable to bathe or dress myself | 23 (11, 33) | 6.9 (3.82, 11) | 21 (15, 25) |
| Missing | 14 (9, 20) | 29 (21, 36) | 45 (35, 54) |
| **EQ-5D usual activities at discharge** |  |  |  |
| I have no problems in performing my usual activities | 57 (43, 69) | 81 (74, 85) | 48 (41, 52) |
| I have some problems in performing my usual activities | 23 (12, 35) | 11 (6.5, 15) | 36 (30, 41) |
| I am unable to perform my usual activities | 20 (10, 32) | 7.9 (4.5, 12) | 16 (11, 19) |
| Missing | 14 (9, 20) | 29 (21, 36) | 45 (35, 54) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| I have no pain or discomfort | 43 (29, 56) | 52 (43, 58) | 27 (21, 31) |
| I have moderate pain or discomfort | 57 (41, 68) | 44 (36, 51) | 36 (30, 41) |
| I have extreme pain or discomfort |  | 4 (1.9, 7.7) | 36 (29, 41) |
| Missing | 14 (9, 20) | 29 (21, 36) | 45 (35, 54) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| I am not anxious or depressed | 70 (55, 81) | 86 (79, 89) | 89 (84, 92) |
| I am moderately anxious or depressed | 30 (17, 41) | 13 (8.28, 17) | 9.6 (6.8, 14) |
| I am extremely anxious or depressed |  | 1 (0, 3) | 1.9 (0.6, 3.7) |
| Missing | 14 (9, 20) | 29 (21, 36) | 45 (35, 54) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| I have no problems in walking | 77 (62, 87) | 95 (89, 97) | 74 (67, 78) |
| I have some problems in walking | 19 (9.1, 32) | 3 (1, 6.65) | 16 (11, 20) |
| I am confined to bed | 3.8 (0, 13) | 2 (0, 4.76) | 9.8 (6.6, 14) |
| Missing | 18 (12, 23) | 29 (21, 36) | 69 (57, 79) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| I have no problems with self-care | 81 (65, 89) | 94 (88, 96) | 77 (70, 81) |
| I have some problems bathing or dressing myself | 12 (4.2, 23) | 2 (0.8, 4.8) | 13 (8.6, 17) |
| I am unable to bathe or dress myself | 7.7 (0, 19) | 4 (1.9, 7.76) | 9.8 (6.6, 14) |
| Missing | 18 (12, 23) | 29 (21, 36) | 69 (57, 79) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| I have no problems in performing my usual activities | 81 (66, 90) | 93 (87, 95) | 79 (72, 83) |
| I have some problems in performing my usual activities | 12 (4.5, 24) | 3 (1, 6.39) | 14 (9.5, 18) |
| I am unable to perform my usual activities | 7.7 (0, 19) | 4 (1.9, 7.76) | 7.5 (4.6, 12) |
| Missing | 18 (12, 23) | 29 (21, 36) | 69 (57, 79) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| I have no pain or discomfort | 77 (62, 87) | 82 (75, 86) | 78 (71, 82) |
| I have moderate pain or discomfort | 23 (11, 36) | 17 (11, 22) | 20 (14, 24) |
| I have extreme pain or discomfort |  | 1 (0, 3) | 1.5 (0, 3.5) |
| Missing | 18 (12, 23) | 29 (21, 36) | 69 (57, 79) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| I am not anxious or depressed | 88 (72, 94) | 92 (86, 94) | 95 (88.47, 96) |
| I am moderately anxious or depressed | 12 (4.5, 24) | 6.9 (4, 11) | 3.8 (1.7, 6.9) |
| I am extremely anxious or depressed |  | 1 (0, 3) | 0.8 (0, 2.7) |
| Missing | 18 (12, 23) | 29 (21, 36) | 69 (57, 79) |
| **Patient satisfaction** |  |  |  |
| Very satisfied | 74 (63, 83) | 85 (79, 88) | 69 (63, 72) |
| Somewhat satisfied | 21 (11, 30) | 9.9 (6.2, 14) | 16 (11, 19) |
| Somewhat dissatisfied | 2.6 (0, 8.61) | 1.7 (0, 4.2) | 9 (6.2, 13) |
| Very dissatisfied | 2.6 (0, 8.8) | 3.3 (1.6, 6.3) | 5.1 (2.9, 7.6) |
| Missing | 6 (3, 9) | 9 (4, 13) | 25 (17, 31) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 13 (8, 18) | 19 (12, 25) | 36 (27.77, 44) |
| **EQ-5D health state at discharge** | 60 (50, 60) | 80 (79, 79) | 50 (5, 50) |
| Missing | 15 (10, 20) | 35 (27, 43) | 58 (47, 68) |
| **EQ-5D health state at 30 day follow-up** | 88 (80, 100) | 100 (99, 99) | 80 (9, 85) |
| Missing | 18 (12, 23) | 32 (24, 39.52) | 75 (63, 85) |
| **Cost of treatment** | 5000 (0, 10500) | 2000 (1500, 2025) | 3000 (1000, 5500) |
| Missing | 35 (27, 44) | 39 (31, 48) | 113 (100, 125) |

## Outcomes in all patients before training, by treatment arm

| Outcome | ATLS, N = 16 | PTC, N = 57 | Standard care, N = 41 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| Yes |  | 10 (4.2, 17) | 2.6 (0, 8.06) |
| No |  | 90 (82, 95) | 97 (81, 98) |
| Missing | 2 (0, 4) | 8 (4, 12) | 3 (1, 5) |
| **24 hour mortality** |  |  |  |
| Yes |  |  | 2.4 (0, 7.7) |
| No |  |  | 98 (91, 100) |
| Missing | 2 (0, 4) | 5 (2, 8) |  |
| **In-hospital mortality** |  |  |  |
| Yes |  | 7 (3.3, 13) | 4.9 (0, 12) |
| No |  | 93 (85, 96) | 95 (84, 98) |
| Missing |  |  |  |
| **Self-ambulatory at discharge** |  |  |  |
| Yes | 92 (69.31, 100) | 96 (87, 98) | 95 (85.67, 98) |
| No | 8.3 (0, 27) | 4.1 (1.6, 10) | 5.1 (0, 12.46) |
| Missing | 4 (1, 6) | 8 (4, 11) | 2 (0, 4) |
| **Return to work** |  |  |  |
| Yes | 83 (50, 100) | 74 (62.76, 82) | 41 (27, 53) |
| No | 17 (0, 50) | 26 (16, 35) | 59 (44, 70) |
| Missing | 10 (5, 14) | 15 (9, 20) | 12 (7, 16) |
| **Pulmonary complication** |  |  |  |
| Yes |  | 2.2 (0, 7.1) |  |
| No |  | 98 (88, 100) |  |
| Missing | 6 (3, 9) | 11 (6, 15) | 2 (0, 4) |
| **Septic complication** |  |  |  |
| Yes |  | 4.4 (0, 10.63) | 2.5 (0, 8.1) |
| No |  | 96 (89, 98) | 98 (90.44, 100) |
| Missing | 6 (3, 9) | 12 (7, 16) | 1 (0, 2) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 5 (2, 8) | 11 (6, 15) | 1 (0, 2) |
| **Coagulopathy** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 6 (3, 9) | 12 (8, 17) | 1 (0, 2) |
| **Need for reexploration or resurgery** |  |  |  |
| Yes |  | 2.1 (0, 7.07) |  |
| No |  | 98 (86, 98) |  |
| Missing | 4 (1, 7) | 10 (5, 14) | 1 (0, 2) |
| **Failure of conservative management** |  |  |  |
| No |  | 98 (85, 100) |  |
| Yes |  | 2.2 (0, 7.59) |  |
| Missing | 10 (5, 14) | 11 (6, 15) | 2 (0, 4) |
| **EQ-5D mobility at discharge** |  |  |  |
| I have no problems in walking | 67 (40, 82.32) | 83 (71, 89) | 62 (49, 71.95) |
| I have some problems in walking | 8.3 (0, 25) | 12 (4.8, 19) | 18 (9.8, 27) |
| I am confined to bed | 25 (8.3, 44) | 4.9 (0, 12) | 21 (12, 31) |
| Missing | 4 (1, 6) | 16 (10, 21) | 2 (0, 4) |
| **EQ-5D self-care at discharge** |  |  |  |
| I have no problems with self-care | 58 (36, 80) | 80 (69, 87) | 59 (46, 69) |
| I have some problems bathing or dressing myself | 17 (0, 38) | 12 (5.3, 20) | 15 (6.78, 23) |
| I am unable to bathe or dress myself | 25 (8.3, 44) | 7.3 (2.6, 16) | 26 (15, 36) |
| Missing | 4 (1, 6) | 16 (10, 21) | 2 (0, 4) |
| **EQ-5D usual activities at discharge** |  |  |  |
| I have no problems in performing my usual activities | 50 (25, 67) | 76 (65, 84) | 54 (42, 66) |
| I have some problems in performing my usual activities | 25 (8.3, 45) | 15 (7.7, 24) | 28 (17, 38) |
| I am unable to perform my usual activities | 25 (8.3, 44) | 9.8 (4.7, 19) | 18 (9.1, 28) |
| Missing | 4 (1, 6) | 16 (10, 21) | 2 (0, 4) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| I have no pain or discomfort | 33 (13, 52.42) | 34 (23, 46) | 33 (23, 43.74) |
| I have moderate pain or discomfort | 67 (40, 82) | 63 (49, 72.39) | 41 (28, 51) |
| I have extreme pain or discomfort |  | 2.4 (0, 7.92) | 26 (16, 37) |
| Missing | 4 (1, 6) | 16 (10, 21) | 2 (0, 4) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| I am not anxious or depressed | 50 (25, 67) | 73 (61, 82) | 79 (67, 86) |
| I am moderately anxious or depressed | 50 (24.04, 67) | 24 (14, 34) | 18 (9.1, 27) |
| I am extremely anxious or depressed |  | 2.4 (0, 7.92) | 2.6 (0, 8.55) |
| Missing | 4 (1, 6) | 16 (10, 21) | 2 (0, 4) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| I have no problems in walking | 67 (25, 90) | 91 (81, 95) | 65 (52, 76.29) |
| I have some problems in walking | 17 (0, 50) | 7 (2.6, 15.92) | 13 (5, 23) |
| I am confined to bed | 17 (0, 50) | 2.3 (0, 7.7) | 23 (12, 34) |
| Missing | 10 (5, 14) | 14 (8.88, 19) | 10 (5, 14) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| I have no problems with self-care | 83 (33, 100) | 91 (83, 96) | 71 (57, 81.03) |
| I have some problems bathing or dressing myself | 17 (0, 50) | 4.7 (2, 12) | 6.5 (2.6, 17) |
| I am unable to bathe or dress myself |  | 4.7 (1.8, 12) | 23 (13, 35) |
| Missing | 10 (5, 14) | 14 (8.88, 19) | 10 (5, 14) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| I have no problems in performing my usual activities |  | 91 (83, 96) | 71 (57, 81) |
| I have some problems in performing my usual activities |  | 4.7 (2, 12) | 19 (9.26, 30) |
| I am unable to perform my usual activities |  | 4.7 (1.8, 12) | 9.7 (3.3, 21) |
| Missing | 10 (5, 14) | 14 (8.88, 19) | 10 (5, 14) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| I have no pain or discomfort | 67 (25, 90) | 77 (66, 84) | 74 (58, 82) |
| I have moderate pain or discomfort | 33 (0, 60) | 21 (11, 30) | 26 (16, 38.7) |
| I have extreme pain or discomfort |  | 2.3 (0, 7.7) |  |
| Missing | 10 (5, 14) | 14 (8.88, 19) | 10 (5, 14) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| I am not anxious or depressed |  | 86 (76, 92) | 97 (84.71, 100) |
| I am moderately anxious or depressed |  | 12 (5.1, 19) | 3.2 (0, 11.17) |
| I am extremely anxious or depressed |  | 2.3 (0, 7.7) |  |
| Missing | 10 (5, 14) | 14 (8.88, 19) | 10 (5, 14) |
| **Patient satisfaction** |  |  |  |
| Very satisfied | 64 (41, 80) | 73 (64, 81) | 67 (55, 76) |
| Somewhat satisfied | 36 (17, 55) | 16 (8.9, 24) | 23 (13, 32) |
| Somewhat dissatisfied |  | 3.9 (0, 9.5) | 7.7 (2.79, 16) |
| Very dissatisfied |  | 7.8 (3.6, 15) | 2.6 (0, 9.61) |
| Missing | 2 (0, 4) | 6 (2, 9) | 2 (0, 4) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 10 (5, 14) | 8 (4, 12) | 2 (0, 4) |
| **EQ-5D health state at discharge** | 60 (40, 75) | 80 (70, 80) | 50 (4, 80) |
| Missing | 5 (2, 8) | 16 (10, 21) | 10 (5, 14) |
| **EQ-5D health state at 30 day follow-up** | 100 (55, 100) | 100 (90, 100) | 10 (9, 99) |
| Missing | 10 (5, 14) | 15 (10, 20) | 14 (9, 20) |
| **Cost of treatment** | 7000 (0, 14000) | 2025 (997, 5500) | 14000 (500, 25000) |
| Missing | 14 (9, 19) | 18 (12, 24) | 23 (17, 30) |

## Outcomes in all patients after training, by treatment arm

| Outcome | ATLS, N = 28 | PTC, N = 73 | Standard care, N = 161 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| Yes | 3.8 (0, 14) | 4.9 (1.6, 10) | 16 (11, 19) |
| No | 96 (79.76, 100) | 95 (88, 98) | 84 (79, 88) |
| Missing | 2 (0, 4) | 12 (7, 17) | 26 (19, 33) |
| **24 hour mortality** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 2 (0, 4) | 8 (4, 12) | 7 (3, 11) |
| **In-hospital mortality** |  |  |  |
| Yes | 3.7 (0, 13) | 4.1 (1.3, 8.18) | 12 (7.59, 15) |
| No | 96 (79.51, 100) | 96 (90, 98) | 88 (83, 90) |
| Missing | 1 (0, 2) |  | 2 (0, 3) |
| **Self-ambulatory at discharge** |  |  |  |
| Yes |  | 97 (90, 99) | 99 (96, 99) |
| No |  | 2.9 (0, 7.2) | 1.5 (0.7, 3.7) |
| Missing | 4 (1, 6) | 3 (1, 5) | 24 (17, 30) |
| **Return to work** |  |  |  |
| Yes | 58 (39, 72.77) | 70 (59, 77) | 53 (44, 59) |
| No | 42 (26, 59) | 30 (21, 39) | 47 (39, 53) |
| Missing | 9 (4, 13) | 16 (11, 21) | 56 (46, 65) |
| **Pulmonary complication** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 5 (2, 8) | 10 (6, 15) | 33 (24, 40) |
| **Septic complication** |  |  |  |
| Yes |  | 3.2 (0, 8) | 0.8 (0, 2.4) |
| No |  | 97 (91, 98) | 99 (96, 99) |
| Missing | 5 (2, 8) | 10 (6, 15) | 33 (24, 40) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 5 (2, 8) | 10 (6, 15) | 32 (24, 39) |
| **Coagulopathy** |  |  |  |
| Yes | 4.3 (0, 15) |  |  |
| No | 96 (83.9, 100) |  |  |
| Missing | 5 (2, 8) | 10 (6, 15) | 32 (24, 39) |
| **Need for reexploration or resurgery** |  |  |  |
| Yes |  | 1.6 (0, 5.2) | 2.5 (0.8, 5.3) |
| No |  | 98 (90, 99) | 97 (92, 98) |
| Missing | 6 (3, 9) | 10 (6, 15) | 42 (33, 50) |
| **Failure of conservative management** |  |  |  |
| No | 92 (78, 96.05) | 98 (90, 99) | 98 (93, 98) |
| Yes | 8 (0, 20) | 1.6 (0, 4.7) | 1.7 (0, 4) |
| Missing | 3 (0, 5) | 12 (7, 17) | 44 (34, 52) |
| **EQ-5D mobility at discharge** |  |  |  |
| I have no problems in walking | 89 (71, 96) | 92 (84, 96) | 62 (55, 68) |
| I have some problems in walking | 11 (0, 25) | 5 (1.8, 11) | 19 (14, 25) |
| I am confined to bed |  | 3.3 (0, 8.45) | 19 (13, 23) |
| Missing | 10 (6, 14) | 13 (8, 18) | 43 (33, 51) |
| **EQ-5D self-care at discharge** |  |  |  |
| I have no problems with self-care | 67 (45, 80) | 85 (76, 90) | 50 (42.8, 55) |
| I have some problems bathing or dressing myself | 11 (0, 25) | 8.3 (3.93, 14.78) | 31 (24.46, 36.9) |
| I am unable to bathe or dress myself | 22 (7.7, 38) | 6.7 (2.9, 13) | 19 (12, 23) |
| Missing | 10 (6, 14) | 13 (8, 18) | 43 (33, 51) |
| **EQ-5D usual activities at discharge** |  |  |  |
| I have no problems in performing my usual activities | 61 (42, 75.89) | 85 (76, 90) | 47 (40, 53) |
| I have some problems in performing my usual activities | 22 (7.7, 40) | 8.3 (3.93, 14.78) | 38 (31, 43) |
| I am unable to perform my usual activities | 17 (5.6, 33) | 6.7 (2.9, 13) | 15 (9.53, 19) |
| Missing | 10 (6, 14) | 13 (8, 18) | 43 (33, 51) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| I have no pain or discomfort | 50 (31, 67) | 65 (54.36, 73) | 25 (18.03, 30) |
| I have moderate pain or discomfort | 50 (29, 64) | 30 (21, 38) | 35 (29, 41) |
| I have extreme pain or discomfort |  | 5 (1.8, 11) | 40 (33, 46) |
| Missing | 10 (6, 14) | 13 (8, 18) | 43 (33, 51) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| I am not anxious or depressed | 83 (65, 93) | 95 (88, 97) | 92 (87, 94) |
| I am moderately anxious or depressed | 17 (5.6, 32) | 5 (1.7, 10) | 6.8 (4.1, 11) |
| I am extremely anxious or depressed |  |  | 1.7 (0, 3.8) |
| Missing | 10 (6, 14) | 13 (8, 18) | 43 (33, 51) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| I have no problems in walking | 80 (61, 89.32) | 98 (90, 98) | 77 (69, 81) |
| I have some problems in walking | 20 (9.1, 36) |  | 17 (11, 22) |
| I am confined to bed |  | 1.7 (0, 5.37) | 5.9 (2.9, 11) |
| Missing | 8 (4, 12) | 15 (10, 20) | 59 (49, 68) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| I have no problems with self-care | 80 (63, 91) | 97 (91, 99) | 79 (71, 83) |
| I have some problems bathing or dressing myself | 10 (0, 24) |  | 15 (9.7, 20) |
| I am unable to bathe or dress myself | 10 (0, 25) | 3.4 (0, 8.5) | 5.9 (3, 10) |
| Missing | 8 (4, 12) | 15 (10, 20) | 59 (49, 68) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| I have no problems in performing my usual activities | 75 (57, 88) | 95 (88, 98) | 81 (73, 85) |
| I have some problems in performing my usual activities | 15 (5.6, 30) | 1.7 (0, 5.89) | 12 (7.5, 17) |
| I am unable to perform my usual activities | 10 (0, 25) | 3.4 (0, 8.5) | 6.9 (3.9, 11.43) |
| Missing | 8 (4, 12) | 15 (10, 20) | 59 (49, 68) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| I have no pain or discomfort | 80 (63, 90) | 86 (77, 91) | 79 (71, 83) |
| I have moderate pain or discomfort | 20 (7.7, 35) | 14 (7.3, 20) | 19 (13, 24) |
| I have extreme pain or discomfort |  |  | 2 (0.8, 5) |
| Missing | 8 (4, 12) | 15 (10, 20) | 59 (49, 68) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| I am not anxious or depressed | 85 (67, 93) | 97 (91, 99) | 95 (89, 97) |
| I am moderately anxious or depressed | 15 (5.6, 30) | 3.4 (0, 8.5) | 3.9 (1.9, 7.66) |
| I am extremely anxious or depressed |  |  | 1 (0, 3) |
| Missing | 8 (4, 12) | 15 (10, 20) | 59 (49, 68) |
| **Patient satisfaction** |  |  |  |
| Very satisfied | 79 (64, 89) | 94 (87, 96) | 70 (63, 74) |
| Somewhat satisfied | 13 (4.37, 25) | 5.7 (2.7, 11) | 14 (9, 17) |
| Somewhat dissatisfied | 4.2 (0, 14) |  | 9.4 (6.6, 14) |
| Very dissatisfied | 4.2 (0, 14) |  | 5.8 (3, 8.6) |
| Missing | 4 (1, 6) | 3 (1, 5) | 23 (15, 28) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 3 (0, 5) | 11 (6, 16) | 34 (26, 42) |
| **EQ-5D health state at discharge** | 65 (50, 75) | 90 (80, 90) | 50 (5, 50) |
| Missing | 10 (6, 14) | 19 (13, 25) | 48 (38, 57) |
| **EQ-5D health state at 30 day follow-up** | 83 (80, 95) |  | 83 (40, 98) |
| Missing | 8 (4, 12) | 17 (11, 23) | 61 (50, 70) |
| **Cost of treatment** | 5000 (0, 7000) | 1500 (250, 1500) | 2500 (1250, 6000) |
| Missing | 21 (14, 27) | 21 (14.1, 27) | 90 (78, 101) |

## 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 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| Yes | 3.8 (0, 14) | -5.1 (-12.3, 2.4) | 13.4 (6.3, 18) |
| No | -4 (-20.24, 0) | 5 (-4, 11) | -13 (-18, -6) |
| Missing | 0 (-4, 2) | 4 (-3, 9) | 23 (16, 30) |
| **24 hour mortality** |  |  |  |
| Yes |  |  | -2.4 (-8.61, 0) |
| No |  |  | 2 (0, 5) |
| Missing | 0 (-4, 2) | 3 (-3, 8) | 7 (3, 11) |
| **In-hospital mortality** |  |  |  |
| Yes | 3.7 (0, 13) | -2.9 (-9.89, 2.1) | 7.1 (-0.71, 12) |
| No | -4 (-20.49, 0) | 3 (-4, 8) | -7 (-13, -1) |
| Missing | 1 (0, 2) |  | 2 (0, 3) |
| **Self-ambulatory at discharge** |  |  |  |
| Yes | 8 (0, 22) | 1 (-5, 5.07) | 4 (-1, 11) |
| No | -8.3 (-30.61, 0) | -1.2 (-7, 3.2) | -3.6 (-11.33, 0.7) |
| Missing | 0 (-5, 3) | -5 (-11, -2) | 22 (14, 28) |
| **Return to work** |  |  |  |
| Yes | -25 (-50, 8) | -4 (-18, 8) | 12 (-4, 25) |
| No | 25 (-11, 48) | 4 (-10, 16) | -12 (-28, 1) |
| Missing | -1 (-8, 4) | 1 (-8, 8) | 44 (33, 54) |
| **Pulmonary complication** |  |  |  |
| Yes |  | -2.2 (-8.67, 0) |  |
| No |  | 2 (0, 4) |  |
| Missing | -1 (-7, 2) | -1 (-8, 4) | 31 (22, 38) |
| **Septic complication** |  |  |  |
| Yes |  | -1.2 (-7.32, 3.7) | -1.7 (-7.1, 0.8) |
| No |  | 1 (-5, 6) | 1 (-2, 5) |
| Missing | -1 (-7, 2) | -2 (-10, 3) | 32 (23, 39) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 0 (-6, 3) | -1 (-8, 4) | 31 (22, 38) |
| **Coagulopathy** |  |  |  |
| Yes | 4.3 (0, 15) |  |  |
| No | -4 (-16.1, 0) |  |  |
| Missing | -1 (-7, 2) | -2 (-10, 3) | 31 (22, 38) |
| **Need for reexploration or resurgery** |  |  |  |
| Yes |  | -0.5 (-6, 1.8) | 2.5 (0.8, 5.3) |
| No |  | 0 (-5, 2) | -3 (-8, -2) |
| Missing | 2 (-4, 5) | 0 (-7, 5) | 41 (32, 50) |
| **Failure of conservative management** |  |  |  |
| No | -8 (-22, -3.76) | 0 (-5, 2) | -2 (-7, -2) |
| Yes | 8 (0, 20) | -0.6 (-6.57, 1.8) | 1.7 (0, 4) |
| Missing | -7 (-14, -3) | 1 (-6, 7) | 42 (32, 50) |
| **EQ-5D mobility at discharge** |  |  |  |
| I have no problems in walking | 22 (-3, 44) | 9 (-2, 18) | 0 (-13, 14) |
| I have some problems in walking | 2.7 (-16.58, 16) | -7 (-15.38, 1.86) | 1 (-11, 10) |
| I am confined to bed | -25 (-52.75, -11) | -1.6 (-8.7, 3.6) | -2 (-17, 7) |
| Missing | 6 (0, 10) | -3 (-11, 4) | 41 (31, 49) |
| **EQ-5D self-care at discharge** |  |  |  |
| I have no problems with self-care | 9 (-21, 37) | 5 (-6, 16) | -9 (-22, 3) |
| I have some problems bathing or dressing myself | -6 (-28.98, 10.92) | -3.7 (-12.74, 4.9) | 16 (5, 26.3) |
| I am unable to bathe or dress myself | -3 (-30, 18) | -0.6 (-8, 7.5) | -7 (-21.28, 2) |
| Missing | 6 (0, 10) | -3 (-11, 4) | 41 (31, 49) |
| **EQ-5D usual activities at discharge** |  |  |  |
| I have no problems in performing my usual activities | 11 (-21, 36) | 9 (-4, 20) | -7 (-21, 4) |
| I have some problems in performing my usual activities | -3 (-28.99, 19) | -6.7 (-17.95, 1.6) | 10 (-2, 22) |
| I am unable to perform my usual activities | -8 (-33, 14) | -3.1 (-12.02, 4.5) | -3 (-16, 5) |
| Missing | 6 (0, 10) | -3 (-11, 4) | 41 (31, 49) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| I have no pain or discomfort | 17 (-13, 40.82) | 31 (14, 43) | -8 (-22, 3) |
| I have moderate pain or discomfort | -17 (-44, 10) | -33 (-47, -18) | -6 (-18, 7.44) |
| I have extreme pain or discomfort |  | 2.6 (-2.9, 7.5) | 14 (-1, 23) |
| Missing | 6 (0, 10) | -3 (-11, 4) | 41 (31, 49) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| I am not anxious or depressed | 33 (5, 56) | 22 (11, 33) | 13 (4, 24) |
| I am moderately anxious or depressed | -33 (-57.09, -8) | -19 (-30.19, -9) | -11.2 (-22.33, -2.6) |
| I am extremely anxious or depressed |  | -2.4 (-8.8, 0) | -0.9 (-7.3, 1.7) |
| Missing | 6 (0, 10) | -3 (-11, 4) | 41 (31, 49) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| I have no problems in walking | 13 (-21, 45) | 7 (0, 13) | 12 (-4.21, 24) |
| I have some problems in walking | 3 (-37.43, 24) | -7 (-16, -2.7) | 4 (-8, 12.4) |
| I am confined to bed | -17 (-50, 0) | -0.6 (-6.4, 2.6) | -17.1 (-31.17, -7.71) |
| Missing | -2 (-9, 3) | 1 (-7, 8) | 49 (37, 59) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| I have no problems with self-care | -3 (-24, 38) | 6 (-1, 13) | 8 (-5.79, 20) |
| I have some problems bathing or dressing myself | -7 (-50, 12) | -4.7 (-12, -2) | 8.5 (0, 15.9) |
| I am unable to bathe or dress myself | 10 (0, 25) | -1.3 (-7.96, 3.8) | -17.1 (-30.4, -7.26) |
| Missing | -2 (-9, 3) | 1 (-7, 8) | 49 (37, 59) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| I have no problems in performing my usual activities | -25 (-43, -12) | 4 (-5, 10) | 10 (-3, 23) |
| I have some problems in performing my usual activities | 15 (5.6, 30) | -3 (-10.04, 0.9) | -7 (-19.74, 3) |
| I am unable to perform my usual activities | 10 (0, 25) | -1.3 (-7.96, 3.8) | -2.8 (-13.91, 4.3) |
| Missing | -2 (-9, 3) | 1 (-7, 8) | 49 (37, 59) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| I have no pain or discomfort | 13 (-20, 46) | 9 (-4, 19) | 5 (-7, 19) |
| I have moderate pain or discomfort | -13 (-50, 18) | -7 (-18.5, 4) | -7 (-23, 3) |
| I have extreme pain or discomfort |  | -2.3 (-8.6, 0) | 2 (0.8, 5) |
| Missing | -2 (-9, 3) | 1 (-7, 8) | 49 (37, 59) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| I am not anxious or depressed | -15 (-33, -7) | 11 (3, 20) | -2 (-7, 4) |
| I am moderately anxious or depressed | 15 (5.6, 30) | -8.6 (-17.4, -1.7) | 0.7 (-8.21, 4.3) |
| I am extremely anxious or depressed |  | -2.3 (-8.6, 0) | 1 (0, 3) |
| Missing | -2 (-9, 3) | 1 (-7, 8) | 49 (37, 59) |
| **Patient satisfaction** |  |  |  |
| Very satisfied | 15 (-7, 38) | 21 (10, 28) | 3 (-10, 14) |
| Somewhat satisfied | -23 (-45.8, -3) | -10.3 (-19.46, -2.32) | -9 (-21, -0.25) |
| Somewhat dissatisfied | 4.2 (0, 14) | -3.9 (-10, -1.66) | 1.7 (-7.5, 7.4) |
| Very dissatisfied | 4.2 (0, 14) | -7.8 (-15, -3.8) | 3.2 (-3.6, 6.5) |
| Missing | 2 (-2, 5) | -3 (-9, 0) | 21 (13, 27) |
| **Number of hospitalizations for this injury** | 0 (-1, -0.5) |  |  |
| Missing | -7 (-14, -3) | 3 (-4, 8) | 32 (24, 41) |
| **EQ-5D health state at discharge** | 5 (-20, 25) | 10 (-10, 10) | 0 (-54.09, 46) |
| Missing | 5 (-1, 10) | 3 (-6, 11) | 38 (26, 48) |
| **EQ-5D health state at 30 day follow-up** | -17 (-30, 0) |  | 73 (1, 91) |
| Missing | -2 (-9, 3) | 2 (-7, 9) | 47 (34, 57) |
| **Cost of treatment** | -2000 (-13000, 7000) | -525 (-4000, 503) | -11500 (-44900.27, 250) |
| Missing | 7 (-3, 13) | 3 (-7, 11) | 67 (52, 80) |

## 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 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| Yes |  | 0.49 (0.13, 1.51) | 6.15 (3.68, 10) |
| No | 0.96 (0.8, 1) | 1.06 (0.97, 1.14) | 0.87 (0.82, 0.94) |
| Missing | 1 (0, 3) | 1.5 (0.75, 3) | 8.67 (3.8, 20) |
| **24 hour mortality** |  |  |  |
| Yes |  |  |  |
| No |  |  | 1.02 (1, 1.05) |
| Missing | 1 (0, 3) | 1.6 (0.7, 4.44) |  |
| **In-hospital mortality** |  |  |  |
| Yes |  | 0.59 (0.15, 1.85) | 2.45 (1.01, 5.42) |
| No | 0.96 (0.8, 1) | 1.03 (0.98, 1.1) | 0.93 (0.88, 1) |
| Missing |  |  |  |
| **Self-ambulatory at discharge** |  |  |  |
| Yes | 1.09 (1, 1.28) | 1.01 (0.96, 1.07) | 1.04 (0.99, 1.12) |
| No |  | 0.71 (0.15, 2.88) | 0.29 (0.08, 1.12) |
| Missing | 1 (0.2, 2) | 0.38 (0.1, 1) | 12 (4.8, 26) |
| **Return to work** |  |  |  |
| Yes | 0.7 (0.48, 1.11) | 0.95 (0.78, 1.13) | 1.29 (0.95, 1.89) |
| No | 2.47 (1.48, 6.44) | 1.15 (0.74, 1.9) | 0.8 (0.61, 1.05) |
| Missing | 0.9 (0.42, 1.71) | 1.07 (0.62, 1.82) | 4.67 (3, 7.15) |
| **Pulmonary complication** |  |  |  |
| Yes |  |  |  |
| No |  | 1.02 (1, 1.04) |  |
| Missing | 0.83 (0.25, 1.8) | 0.91 (0.47, 1.72) | 16.5 (6.78, 36) |
| **Septic complication** |  |  |  |
| Yes |  | 0.73 (0.17, 3) | 0.32 (0.1, 1.62) |
| No |  | 1.01 (0.96, 1.07) | 1.01 (0.98, 1.05) |
| Missing | 0.83 (0.25, 1.8) | 0.83 (0.42, 1.55) | 33 (16.5, 43) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 1 (0.23, 2) | 0.91 (0.47, 1.72) | 32 (16, 41) |
| **Coagulopathy** |  |  |  |
| Yes |  |  |  |
| No | 0.96 (0.84, 1) |  |  |
| Missing | 0.83 (0.25, 1.8) | 0.83 (0.43, 1.46) | 32 (16, 41) |
| **Need for reexploration or resurgery** |  |  |  |
| Yes |  | 0.76 (0, 4.29) |  |
| No |  | 1 (0.95, 1.02) | 0.97 (0.92, 0.98) |
| Missing | 1.5 (0.5, 3.5) | 1 (0.47, 1.8) | 42 (22, 52) |
| **Failure of conservative management** |  |  |  |
| No | 0.92 (0.78, 0.96) | 1 (0.95, 1.02) | 0.98 (0.93, 0.98) |
| Yes |  | 0.73 (0, 3.6) |  |
| Missing | 0.3 (0.08, 0.8) | 1.09 (0.58, 2.03) | 22 (9.25, 48) |
| **EQ-5D mobility at discharge** |  |  |  |
| I have no problems in walking | 1.33 (0.97, 1.9) | 1.11 (0.99, 1.26) | 1 (0.81, 1.26) |
| I have some problems in walking | 1.33 (0.54, 4.61) | 0.42 (0.13, 1.38) | 1.06 (0.61, 2) |
| I am confined to bed |  | 0.67 (0.16, 2.85) | 0.9 (0.48, 1.5) |
| Missing | 2.5 (1, 5.5) | 0.81 (0.46, 1.44) | 21.5 (9, 46) |
| **EQ-5D self-care at discharge** |  |  |  |
| I have no problems with self-care | 1.16 (0.74, 1.94) | 1.06 (0.93, 1.23) | 0.85 (0.68, 1.08) |
| I have some problems bathing or dressing myself | 0.65 (0, 2.3) | 0.69 (0.26, 1.82) | 2.07 (1.24, 4.49) |
| I am unable to bathe or dress myself | 0.88 (0.32, 2.5) | 0.92 (0.35, 3.6) | 0.73 (0.42, 1.14) |
| Missing | 2.5 (1, 5.5) | 0.81 (0.46, 1.44) | 21.5 (9, 46) |
| **EQ-5D usual activities at discharge** |  |  |  |
| I have no problems in performing my usual activities | 1.22 (0.7, 2.14) | 1.12 (0.97, 1.31) | 0.87 (0.69, 1.15) |
| I have some problems in performing my usual activities | 0.88 (0.3, 2.64) | 0.55 (0.2, 1.25) | 1.36 (0.97, 2.25) |
| I am unable to perform my usual activities | 0.68 (0.2, 2.27) | 0.68 (0.22, 2.32) | 0.83 (0.44, 1.5) |
| Missing | 2.5 (1, 5.5) | 0.81 (0.46, 1.44) | 21.5 (9, 46) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| I have no pain or discomfort | 1.52 (0.76, 3.35) | 1.91 (1.33, 2.75) | 0.76 (0.51, 1.15) |
| I have moderate pain or discomfort | 0.75 (0.45, 1.21) | 0.48 (0.33, 0.67) | 0.85 (0.64, 1.3) |
| I have extreme pain or discomfort |  | 2.08 (1, 5.38) | 1.54 (1, 2.31) |
| Missing | 2.5 (1, 5.5) | 0.81 (0.46, 1.44) | 21.5 (9, 46) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| I am not anxious or depressed | 1.66 (1.08, 2.86) | 1.3 (1.15, 1.54) | 1.16 (1.05, 1.36) |
| I am moderately anxious or depressed | 0.34 (0.11, 0.82) | 0.21 (0.06, 0.51) | 0.38 (0.18, 0.87) |
| I am extremely anxious or depressed |  |  | 0.65 (0.28, 2) |
| Missing | 2.5 (1, 5.5) | 0.81 (0.46, 1.44) | 21.5 (9, 46) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| I have no problems in walking | 1.19 (0.79, 2.15) | 1.08 (1, 1.17) | 1.18 (0.97, 1.46) |
| I have some problems in walking | 1.18 (0.65, 3.54) |  | 1.31 (0.62, 3.1) |
| I am confined to bed |  | 0.74 (0.25, 4.16) | 0.26 (0.1, 0.54) |
| Missing | 0.8 (0.33, 1.5) | 1.07 (0.62, 1.88) | 5.9 (3.71, 10.16) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| I have no problems with self-care | 0.96 (0.76, 1.77) | 1.07 (1, 1.17) | 1.11 (0.94, 1.36) |
| I have some problems bathing or dressing myself | 0.59 (0.24, 2.21) |  | 2.31 (1, 5.6) |
| I am unable to bathe or dress myself |  | 0.72 (0, 3.03) | 0.26 (0.11, 0.54) |
| Missing | 0.8 (0.33, 1.5) | 1.07 (0.62, 1.88) | 5.9 (3.71, 10.16) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| I have no problems in performing my usual activities | 0.75 (0.57, 0.88) | 1.04 (0.96, 1.13) | 1.14 (0.97, 1.39) |
| I have some problems in performing my usual activities |  | 0.36 (0, 2.25) | 0.63 (0.33, 1.39) |
| I am unable to perform my usual activities |  | 0.72 (0, 3.03) | 0.71 (0.28, 1.88) |
| Missing | 0.8 (0.33, 1.5) | 1.07 (0.62, 1.88) | 5.9 (3.71, 10.16) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| I have no pain or discomfort | 1.19 (0.8, 2.18) | 1.12 (0.97, 1.29) | 1.07 (0.92, 1.31) |
| I have moderate pain or discomfort | 0.61 (0.25, 1.7) | 0.67 (0.33, 1.38) | 0.73 (0.41, 1.24) |
| I have extreme pain or discomfort |  |  |  |
| Missing | 0.8 (0.33, 1.5) | 1.07 (0.62, 1.88) | 5.9 (3.71, 10.16) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| I am not anxious or depressed | 0.85 (0.67, 0.93) | 1.13 (1.04, 1.26) | 0.98 (0.94, 1.05) |
| I am moderately anxious or depressed |  | 0.28 (0, 0.86) | 1.22 (0.62, 3.09) |
| I am extremely anxious or depressed |  |  |  |
| Missing | 0.8 (0.33, 1.5) | 1.07 (0.62, 1.88) | 5.9 (3.71, 10.16) |
| **Patient satisfaction** |  |  |  |
| Very satisfied | 1.23 (0.92, 1.81) | 1.29 (1.13, 1.44) | 1.04 (0.88, 1.25) |
| Somewhat satisfied | 0.36 (0.12, 1) | 0.36 (0.13, 0.85) | 0.61 (0.34, 1) |
| Somewhat dissatisfied |  |  | 1.22 (0.51, 3.03) |
| Very dissatisfied |  |  | 2.23 (1.16, 4.17) |
| Missing | 2 (0.4, 5) | 0.5 (0.1, 1.25) | 11.5 (4.59, 25) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 0.3 (0.08, 0.8) | 1.38 (0.67, 2.75) | 17 (7.25, 37) |
| **EQ-5D health state at discharge** | 1.08 (0.75, 1.5) | 1.12 (0.89, 1.12) | 1 (0.18, 12) |
| Missing | 2 (0.75, 4) | 1.19 (0.71, 2) | 4.8 (2.76, 8.15) |
| **EQ-5D health state at 30 day follow-up** | 0.83 (0.7, 1) |  | 8.3 (0.83, 11.11) |
| Missing | 0.8 (0.33, 1.5) | 1.13 (0.64, 1.89) | 4.36 (2.76, 6.5) |
| **Cost of treatment** | 0.71 (0.36, 4.61) | 0.74 (0.27, 1.52) | 0.18 (0.05, 1) |
| Missing | 1.5 (0.83, 2.28) | 1.17 (0.72, 1.85) | 3.91 (2.74, 5.38) |

## Absolute and relative differences in outcomes after training, comparing standard care with ATLS

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 12.2 (5.54, 23.06) | 4.21 (2.69, 15.71) |
| No | -12 (-23, -7) | 0.88 (0.76, 0.95) |
| Missing | 24 (22, 39) | 13 (14, 40) |
| **24 hour mortality** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 5 (2, 13) | 3.5 (2.67, 14) |
| **In-hospital mortality** |  |  |
| Yes | 8.3 (2.06, 16.52) | 3.24 (1.81, 13.64) |
| No | -8 (-17.16, -3) | 0.92 (0.83, 0.98) |
| Missing | 1 (-3, 4) | 2 (1.5, 5) |
| **Self-ambulatory at discharge** |  |  |
| Yes | -1 (-7, 1) | 0.99 (0.94, 1.02) |
| No | 1.5 (-0.7, 7.2) |  |
| Missing | 20 (-17, 32) | 6 (0.18, 29) |
| **Return to work** |  |  |
| Yes | -5 (-26, 23) | 0.91 (0.66, 1.48) |
| No | 5 (-24, 25) | 1.12 (0.52, 2.06) |
| Missing | 47 (41, 63) | 6.22 (6.18, 53) |
| **Pulmonary complication** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 28 (22, 49) | 6.6 (6.33, 43) |
| **Septic complication** |  |  |
| Yes | 0.8 (-2.4, 6.64) |  |
| No | -1 (-8, 1) | 0.99 (0.92, 1.02) |
| Missing | 28 (21, 50) | 6.6 (6.14, 43) |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 27 (21, 48) | 6.4 (5.87, 42) |
| **Coagulopathy** |  |  |
| Yes | -4.3 (-16, -4.27) |  |
| No | 4 (0, 16) | 1.04 (1, 1.19) |
| Missing | 27 (21, 48) | 6.4 (5.87, 42) |
| **Need for reexploration or resurgery** |  |  |
| Yes | 2.5 (1.01, 7.8) |  |
| No | -3 (-8, -3) | 0.97 (0.92, 0.97) |
| Missing | 36 (29, 56) | 7 (5.88, 48) |
| **Failure of conservative management** |  |  |
| No | 6 (4, 26) | 1.07 (1.05, 1.36) |
| Yes | -6.3 (-26, -5.1) | 0.21 (0, 1.27) |
| Missing | 41 (37, 56) | 14.67 (17.5, 55) |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | -27 (-42.12, 25) | 0.7 (0.56, 1.39) |
| I have some problems in walking | 8 (-14.49, 20.4) | 1.73 (0.18, 9.41) |
| I am confined to bed | 19 (15, 30) |  |
| Missing | 33 (21, 49.23) | 4.3 (3.56, 20.5) |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | -17 (-43, 38.24) | 0.75 (0.52, 1.8) |
| I have some problems bathing or dressing myself | 20 (-19, 34.2) | 2.82 (0.31, 11.09) |
| I am unable to bathe or dress myself | -3 (-20, 16.7) | 0.86 (0.13, 4.59) |
| Missing | 33 (21, 49.23) | 4.3 (3.56, 20.5) |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | -14 (-45, 43) | 0.77 (0.49, 1.96) |
| I have some problems in performing my usual activities | 16 (-32.5, 36.4) | 1.73 (0.16, 8.36) |
| I am unable to perform my usual activities | -2 (-17.95, 11.5) | 0.88 (0.14, 3.29) |
| Missing | 33 (21, 49.23) | 4.3 (3.56, 20.5) |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -25 (-48, 43) | 0.5 (0.29, 2.64) |
| I have moderate pain or discomfort | -15 (-49, -10.34) | 0.7 (0.26, 0.87) |
| I have extreme pain or discomfort | 40 (36.16, 55) |  |
| Missing | 33 (21, 49.23) | 4.3 (3.56, 20.5) |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | 9 (5, 36) | 1.11 (1.08, 1.68) |
| I am moderately anxious or depressed | -10.2 (-39.9, -8.17) | 0.4 (0, 0.75) |
| I am extremely anxious or depressed | 1.7 (0, 5.1) |  |
| Missing | 33 (21, 49.23) | 4.3 (3.56, 20.5) |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | -3 (-25, 25) | 0.96 (0.75, 1.35) |
| I have some problems in walking | -3 (-22, 20) | 0.85 (0, 5.21) |
| I am confined to bed | 5.9 (3.9, 15) |  |
| Missing | 51 (44, 69) | 7.38 (7.44, 53) |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | -1 (-21.93, 23) | 0.99 (0.78, 1.3) |
| I have some problems bathing or dressing myself | 5 (-17, 19) | 1.5 (1.39, 4.17) |
| I am unable to bathe or dress myself | -4.1 (-29, -0.9) | 0.59 (0, 1.48) |
| Missing | 51 (44, 69) | 7.38 (7.44, 53) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | 6 (-17, 22) | 1.08 (0.83, 1.35) |
| I have some problems in performing my usual activities | -3 (-16.29, 13) | 0.8 (0, 8.67) |
| I am unable to perform my usual activities | -3.1 (-20.5, 2.3) | 0.69 (0, 2.3) |
| Missing | 51 (44, 69) | 7.38 (7.44, 53) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | -1 (-14, 13) | 0.99 (0.84, 1.17) |
| I have moderate pain or discomfort | -1 (-15.61, 9) | 0.95 (0.38, 2.01) |
| I have extreme pain or discomfort | 2 (0, 8.12) |  |
| Missing | 51 (44, 69) | 7.38 (7.44, 53) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | 10 (7, 36) | 1.12 (1.09, 1.58) |
| I am moderately anxious or depressed | -11.1 (-35.8, -7.5) | 0.26 (0, 0.6) |
| I am extremely anxious or depressed | 1 (0, 4.16) |  |
| Missing | 51 (44, 69) | 7.38 (7.44, 53) |
| **Patient satisfaction** |  |  |
| Very satisfied | -9 (-29, 27) | 0.89 (0.7, 1.39) |
| Somewhat satisfied | 1 (-12.7, 12.5) | 1.08 (0.19, 4.15) |
| Somewhat dissatisfied | 5.2 (-11, 13) | 2.24 (2.32, 4.12) |
| Very dissatisfied | 1.6 (-7.7, 7.9) | 1.38 (1.45, 3.95) |
| Missing | 19 (-16, 30) | 5.75 (0.2, 28) |
| **Number of hospitalizations for this injury** |  |  |
| Missing | 31 (27, 47) | 11.33 (13.33, 48) |
| **EQ-5D health state at discharge** | -15 (-65, 50) | 0.77 (0.19, 2.57) |
| Missing | 38 (32, 53) | 4.8 (4.61, 23) |
| **EQ-5D health state at 30 day follow-up** | 0 (-35, 20) | 1 (0.65, 1.27) |
| Missing | 53 (48, 73) | 7.62 (7.89, 53) |
| **Cost of treatment** | -2500 (-33500, -800) | 0.5 (0, 1) |
| Missing | 69 (-8, 93.29) | 4.29 (0.95, 8.8) |

## Absolute and relative differences in outcomes after training, comparing standard care with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 11.1 (0, 20) | 3.27 (1.39, 14.7) |
| No | -11 (-21, -1) | 0.88 (0.79, 0.99) |
| Missing | 14 (-15, 28) | 2.17 (0, 7.33) |
| **24 hour mortality** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -1 (-16, 2) | 0.88 (0, 2) |
| **In-hospital mortality** |  |  |
| Yes | 7.9 (0.3, 15) | 2.93 (1.47, 14.73) |
| No | -8 (-16, -2.52) | 0.92 (0.85, 0.99) |
| Missing | 2 (0, 5.62) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 2 (0, 12) | 1.02 (1.01, 1.14) |
| No | -1.4 (-12, 0) |  |
| Missing | 21 (3, 32.78) | 8 (4.41, 43.05) |
| **Return to work** |  |  |
| Yes | -17 (-41, -12) | 0.76 (0.42, 0.84) |
| No | 17 (11, 41) | 1.57 (1.32, 6.48) |
| Missing | 40 (-1, 59) | 3.5 (0.35, 9.57) |
| **Pulmonary complication** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 23 (-2, 37) | 3.3 (0.25, 10.5) |
| **Septic complication** |  |  |
| Yes | -2.4 (-8.7, -1.7) |  |
| No | 2 (0, 9) | 1.02 (1.01, 1.1) |
| Missing | 23 (-0.02, 38) | 3.3 (0.26, 10.67) |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 22 (-2, 36) | 3.2 (0.26, 10.25) |
| **Coagulopathy** |  |  |
| Yes | 0 (-13, 0) |  |
| No | 0 (-17, -2.77) | 1 (0.83, 0.97) |
| Missing | 22 (-2, 36) | 3.2 (0.26, 10.25) |
| **Need for reexploration or resurgery** |  |  |
| Yes | 0.9 (-3.8, 3.3) |  |
| No | -1 (-4, 2) | 0.99 (0.96, 1.03) |
| Missing | 32 (0, 47.83) | 4.2 (0.4, 12.5) |
| **Failure of conservative management** |  |  |
| No | 0 (-20.35, 4) | 1 (0.8, 1.04) |
| Yes | 0.1 (-4.7, 18.52) | 1.06 (0.53, 17) |
| Missing | 32 (-10, 49) | 3.67 (0.02, 13.16) |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | -30 (-48.3, -18) | 0.67 (0.53, 0.84) |
| I have some problems in walking | 14 (8.13, 33) | 3.8 (3.33, 16.11) |
| I am confined to bed | 15.7 (0, 25) |  |
| Missing | 30 (-1, 46) | 3.31 (0.78, 8) |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | -35 (-52, -33) | 0.59 (0.44, 0.62) |
| I have some problems bathing or dressing myself | 22.7 (11.22, 41) | 3.73 (2.15, 20.62) |
| I am unable to bathe or dress myself | 12.3 (5, 44.8) | 2.84 (1.64, 20) |
| Missing | 30 (-1, 46) | 3.31 (0.78, 8) |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | -38 (-61, -35) | 0.55 (0.35, 0.58) |
| I have some problems in performing my usual activities | 29.7 (26.5, 46.5) | 4.58 (3.93, 26.47) |
| I am unable to perform my usual activities | 8.3 (1, 32.54) | 2.24 (1.28, 18.12) |
| Missing | 30 (-1, 46) | 3.31 (0.78, 8) |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -40 (-62, -34) | 0.38 (0.21, 0.43) |
| I have moderate pain or discomfort | 5 (-6, 45) | 1.17 (0.88, 4.46) |
| I have extreme pain or discomfort | 35 (-3.4, 46) |  |
| Missing | 30 (-1, 46) | 3.31 (0.78, 8) |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | -3 (-34.2, 3) | 0.97 (0.7, 1.04) |
| I am moderately anxious or depressed | 1.8 (-5.3, 29.6) | 1.36 (0.71, 19.33) |
| I am extremely anxious or depressed | 1.7 (0, 5.11) |  |
| Missing | 30 (-1, 46) | 3.31 (0.78, 8) |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | -21 (-50, -21) | 0.79 (0.5, 0.8) |
| I have some problems in walking | 17 (14, 50) |  |
| I am confined to bed | 4.2 (0, 11) |  |
| Missing | 44 (-3, 62) | 3.93 (0.32, 11.34) |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | -18 (-39, -17) | 0.81 (0.61, 0.83) |
| I have some problems bathing or dressing myself | 15 (13, 33) |  |
| I am unable to bathe or dress myself | 2.5 (-2.7, 19.96) | 1.74 (1.01, 11.76) |
| Missing | 44 (-3, 62) | 3.93 (0.32, 11.34) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | -14 (-46, -10.14) | 0.85 (0.52, 0.9) |
| I have some problems in performing my usual activities | 10.3 (6.9, 41.2) | 7.06 (8.67, 23.89) |
| I am unable to perform my usual activities | 3.5 (-0.8, 24.04) | 2.03 (1.41, 11.76) |
| Missing | 44 (-3, 62) | 3.93 (0.32, 11.34) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | -7 (-26.76, 0) | 0.92 (0.74, 1.01) |
| I have moderate pain or discomfort | 5 (-5, 22.4) | 1.36 (0.83, 5.63) |
| I have extreme pain or discomfort | 2 (0, 8.21) |  |
| Missing | 44 (-3, 62) | 3.93 (0.32, 11.34) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | -2 (-42, 1) | 0.98 (0.57, 1.02) |
| I am moderately anxious or depressed | 0.5 (-5.49, 35) | 1.15 (0.58, 27.27) |
| I am extremely anxious or depressed | 1 (0, 4.33) |  |
| Missing | 44 (-3, 62) | 3.93 (0.32, 11.34) |
| **Patient satisfaction** |  |  |
| Very satisfied | -24 (-39, -24) | 0.74 (0.6, 0.76) |
| Somewhat satisfied | 8.3 (4, 35.6) | 2.46 (1.7, 19.33) |
| Somewhat dissatisfied | 9.4 (7.9, 17) |  |
| Very dissatisfied | 5.8 (3.05, 13) |  |
| Missing | 20 (3.17, 31.12) | 7.67 (4.2, 42.25) |
| **Number of hospitalizations for this injury** |  |  |
| Missing | 23 (-10, 38) | 3.09 (0.03, 10) |
| **EQ-5D health state at discharge** | -40 (-89, -40) | 0.56 (0.06, 0.64) |
| Missing | 29 (-8, 48) | 2.53 (0.33, 6.33) |
| **EQ-5D health state at 30 day follow-up** | -17 (-91, -5) | 0.83 (0.09, 0.98) |
| Missing | 44 (-8, 63) | 3.59 (0.28, 10.83) |
| **Cost of treatment** | 1000 (-3000, 13352.04) | 1.67 (0.75, 24.43) |
| Missing | 69 (3, 91.22) | 4.29 (1.1, 8.76) |

## Absolute and relative differences in outcomes after training, comparing ATLS with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | -1.1 (-20.23, 6.37) | 0.78 (0, 2.86) |
| No | 1 (-8, 19) | 1.01 (0.93, 1.24) |
| Missing | -10 (-37, -2.11) | 0.17 (0, 0.34) |
| **24 hour mortality** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -6 (-15, -7) | 0.25 (0, 0.29) |
| **In-hospital mortality** |  |  |
| Yes | -0.4 (-14.6, 6.1) | 0.9 (0, 2.85) |
| No | 0 (-8, 13) | 1 (0.92, 1.15) |
| Missing | 1 (-1, 5) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 3 (1, 14) | 1.03 (1.01, 1.16) |
| No | -2.9 (-14, -2.99) |  |
| Missing | 1 (-23, 21) | 1.33 (0.1, 8.33) |
| **Return to work** |  |  |
| Yes | -12 (-40, -3) | 0.83 (0.45, 1) |
| No | 12 (1, 39.3) | 1.4 (1.1, 4.93) |
| Missing | -7 (-59, 1) | 0.56 (0.05, 1.16) |
| **Pulmonary complication** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -5 (-42, 0) | 0.5 (0, 1.1) |
| **Septic complication** |  |  |
| Yes | -3.2 (-8.2, -3.2) |  |
| No | 3 (2, 8) | 1.03 (1.02, 1.09) |
| Missing | -5 (-41, 0) | 0.5 (0, 1.11) |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -5 (-39, 0) | 0.5 (0, 1.1) |
| **Coagulopathy** |  |  |
| Yes | 4.3 (4, 16) |  |
| No | -4 (-16, -4) | 0.96 (0.84, 0.96) |
| Missing | -5 (-39, 0) | 0.5 (0, 1.1) |
| **Need for reexploration or resurgery** |  |  |
| Yes | -1.6 (-7.7, -0.9) |  |
| No | 2 (0, 8) | 1.02 (1, 1.09) |
| Missing | -4 (-46, 0) | 0.6 (0, 1.25) |
| **Failure of conservative management** |  |  |
| No | -6 (-26, -5) | 0.94 (0.73, 0.95) |
| Yes | 6.4 (4.9, 26.4) | 5 (6.06, 27.14) |
| Missing | -9 (-52, 3) | 0.25 (0, 0.44) |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | -3 (-32, 28) | 0.97 (0.66, 1.46) |
| I have some problems in walking | 6 (-7.95, 21.33) | 2.2 (0.95, 14.27) |
| I am confined to bed | -3.3 (-26, 0) |  |
| Missing | -3 (-51, 2) | 0.77 (0.11, 1.2) |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | -18 (-52.34, 8) | 0.79 (0.51, 1.25) |
| I have some problems bathing or dressing myself | 2.7 (-22.88, 24.3) | 1.33 (0.24, 5.37) |
| I am unable to bathe or dress myself | 15.3 (12.3, 42.8) | 3.28 (2.37, 20) |
| Missing | -3 (-51, 2) | 0.77 (0.11, 1.2) |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | -24 (-63, -10.34) | 0.72 (0.36, 1.11) |
| I have some problems in performing my usual activities | 13.7 (-11, 39.1) | 2.65 (1.56, 23.16) |
| I am unable to perform my usual activities | 10.3 (6, 50.3) | 2.54 (2, 18.33) |
| Missing | -3 (-51, 2) | 0.77 (0.11, 1.2) |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -15 (-47, 21) | 0.77 (0.33, 1.68) |
| I have moderate pain or discomfort | 20 (16, 49) | 1.67 (1.56, 4.46) |
| I have extreme pain or discomfort | -5 (-49, 2) |  |
| Missing | -3 (-51, 2) | 0.77 (0.11, 1.2) |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | -12 (-43, -10.76) | 0.87 (0.55, 0.89) |
| I am moderately anxious or depressed | 12 (9.54, 42.8) | 3.4 (2.8, 22.31) |
| I am extremely anxious or depressed | 0 (-6.8, 0) |  |
| Missing | -3 (-51, 2) | 0.77 (0.11, 1.2) |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | -18 (-55, -15) | 0.82 (0.45, 0.86) |
| I have some problems in walking | 20 (19, 55) |  |
| I am confined to bed | -1.7 (-12, 0) |  |
| Missing | -7 (-65, 1) | 0.53 (0.05, 1.19) |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | -17 (-38, -16) | 0.82 (0.61, 0.85) |
| I have some problems bathing or dressing myself | 10 (0, 29.61) |  |
| I am unable to bathe or dress myself | 6.6 (5.7, 24.3) | 2.94 (3.11, 13.89) |
| Missing | -7 (-65, 1) | 0.53 (0.05, 1.19) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | -20 (-46, -21) | 0.79 (0.53, 0.79) |
| I have some problems in performing my usual activities | 13.3 (12, 38) | 8.82 (17.16, 21.11) |
| I am unable to perform my usual activities | 6.6 (5.4, 24) | 2.94 (3.11, 13.89) |
| Missing | -7 (-65, 1) | 0.53 (0.05, 1.19) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | -6 (-28.05, 1) | 0.93 (0.71, 1.02) |
| I have moderate pain or discomfort | 6 (-2, 27.63) | 1.43 (0.93, 7.45) |
| I have extreme pain or discomfort | 0 (-6.6, 0) |  |
| Missing | -7 (-65, 1) | 0.53 (0.05, 1.19) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | -12 (-34, -11) | 0.88 (0.65, 0.89) |
| I am moderately anxious or depressed | 11.6 (7.56, 34.4) | 4.41 (3.39, 23.75) |
| I am extremely anxious or depressed | 0 (-4.8, -1) |  |
| Missing | -7 (-65, 1) | 0.53 (0.05, 1.19) |
| **Patient satisfaction** |  |  |
| Very satisfied | -15 (-35, -6) | 0.84 (0.65, 1) |
| Somewhat satisfied | 7.3 (2.7, 26.7) | 2.28 (1.46, 12.14) |
| Somewhat dissatisfied | 4.2 (-4.5, 14) |  |
| Very dissatisfied | 4.2 (0, 15.6) |  |
| Missing | 1 (-22, 20) | 1.33 (0.1, 8) |
| **Number of hospitalizations for this injury** |  |  |
| Missing | -8 (-44, 2) | 0.27 (0, 0.5) |
| **EQ-5D health state at discharge** | -25 (-84.79, -10) | 0.72 (0.06, 1.2) |
| Missing | -9 (-55, 2) | 0.53 (0.08, 1.11) |
| **EQ-5D health state at 30 day follow-up** | -17 (-91, -12) | 0.83 (0.09, 0.89) |
| Missing | -9 (-67, 1.58) | 0.47 (0.04, 1.17) |
| **Cost of treatment** | 3500 (1850, 33000) | 3.33 (2.33, 55.56) |
| Missing | 0 (-85, 59) | 1 (0.16, 3.46) |

## Absolute and relative differences in changes from baseline for all outcomes, comparing standard care with ATLS

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 9.6 (-20.68, 26.6) |  |
| No | -9 (-26.32, 21) |  |
| Missing | 23 (14, 42.26) |  |
| **24 hour mortality** |  |  |
| Yes | -2.4 (-9.8, 0) |  |
| No | 2 (0, 8) |  |
| Missing | 7 (3, 17) |  |
| **In-hospital mortality** |  |  |
| Yes | 3.4 (-12.2, 16.8) |  |
| No | -3 (-17, 12) |  |
| Missing | 1 (-3, 4) | 2 (1.5, 5) |
| **Self-ambulatory at discharge** |  |  |
| Yes | -4 (-32.98, 0) |  |
| No | 4.7 (-0.3, 32.49) |  |
| Missing | 22 (-26, 36.33) |  |
| **Return to work** |  |  |
| Yes | 37 (30, 86) |  |
| No | -37 (-86, -31.95) |  |
| Missing | 45 (6, 68.16) |  |
| **Pulmonary complication** |  |  |
| Yes | 0 (-10.73, 0) |  |
| No | 0 (-8, 0) |  |
| Missing | 32 (-22, 49) |  |
| **Septic complication** |  |  |
| Yes | -1.7 (-10.29, 2.6) |  |
| No | 1 (-5, 8) |  |
| Missing | 33 (-27, 50) |  |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 31 (-25, 48) |  |
| **Coagulopathy** |  |  |
| Yes | -4.3 (-16, -4.27) |  |
| No | 4 (0, 16) |  |
| Missing | 32 (-25.03, 48.13) |  |
| **Need for reexploration or resurgery** |  |  |
| Yes | 2.5 (-1.8, 8.85) |  |
| No | -3 (-10.76, -1) |  |
| Missing | 39 (-35, 58) | 20.5 (19, 58) |
| **Failure of conservative management** |  |  |
| No | 6 (3, 26) |  |
| Yes | -6.3 (-26, -4.25) |  |
| Missing | 49 (44, 66) |  |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | -22 (-78, -15) |  |
| I have some problems in walking | -1.7 (-21.55, 13.73) |  |
| I am confined to bed | 23 (16.1, 63) |  |
| Missing | 35 (-46, 57) |  |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | -18 (-54.26, -6) |  |
| I have some problems bathing or dressing myself | 22 (12.1, 59) |  |
| I am unable to bathe or dress myself | -4 (-30.96, 10.52) |  |
| Missing | 35 (-46, 57) |  |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | -18 (-55, 0) |  |
| I have some problems in performing my usual activities | 13 (-11, 42.17) |  |
| I am unable to perform my usual activities | 5 (-7.8, 30.84) |  |
| Missing | 35 (-46, 57) |  |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -25 (-58, 40) |  |
| I have moderate pain or discomfort | 11 (-32, 44) |  |
| I have extreme pain or discomfort | 14 (2, 36.82) |  |
| Missing | 35 (-46, 57) |  |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | -20 (-73, -13) | 0.39 (-21.97, 0.94) |
| I am moderately anxious or depressed | 21.8 (15.1, 68) | 0.34 (-128.01, 0.74) |
| I am extremely anxious or depressed | -0.9 (-7.5, 3.2) |  |
| Missing | 35 (-46, 57) |  |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | -1 (-27, 18) |  |
| I have some problems in walking | 1 (-23.18, 20.4) |  |
| I am confined to bed | -0.1 (-24.4, 26.91) |  |
| Missing | 51 (36, 73.19) |  |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | 11 (1, 58.25) |  |
| I have some problems bathing or dressing myself | 15.5 (4.67, 55.92) |  |
| I am unable to bathe or dress myself | -27.1 (-60.9, -26.49) |  |
| Missing | 51 (36, 73.19) |  |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | 35 (29, 76) |  |
| I have some problems in performing my usual activities | -22 (-64, -19.44) |  |
| I am unable to perform my usual activities | -12.8 (-38.4, -11.11) |  |
| Missing | 51 (36, 73.19) |  |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | -8 (-50.31, 6) |  |
| I have moderate pain or discomfort | 6 (-10, 41.62) |  |
| I have extreme pain or discomfort | 2 (-4.3, 8.98) |  |
| Missing | 51 (36, 73.19) |  |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | 13 (-6, 38) |  |
| I am moderately anxious or depressed | -14.3 (-39.4, -8.2) |  |
| I am extremely anxious or depressed | 1 (-3.6, 7.44) |  |
| Missing | 51 (36, 73.19) |  |
| **Patient satisfaction** |  |  |
| Very satisfied | -12 (-37, 18) |  |
| Somewhat satisfied | 14 (10, 53.3) | 0.39 (-11.27, 1.37) |
| Somewhat dissatisfied | -2.5 (-15.1, 7.4) |  |
| Very dissatisfied | -1 (-17.81, 13.9) |  |
| Missing | 19 (-24, 33) |  |
| **Number of hospitalizations for this injury** | 0 (-1, -1) |  |
| Missing | 39 (35, 57) |  |
| **EQ-5D health state at discharge** | -5 (-54.63, 45) |  |
| Missing | 33 (-26, 55) |  |
| **EQ-5D health state at 30 day follow-up** | 90 (95, 116) |  |
| Missing | 49 (35, 74.02) |  |
| **Cost of treatment** | -9500 (-51816.81, 3674.01) |  |
| Missing | 60 (-54, 90.72) | 9.57 (0.37, 93.51) |

## Absolute and relative differences in changes from baseline for all outcomes, comparing standard care with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 18.5 (18.07, 44.3) |  |
| No | -18 (-44, -18) |  |
| Missing | 19 (-1, 33) |  |
| **24 hour mortality** |  |  |
| Yes | -2.4 (-9.8, 0) |  |
| No | 2 (0, 8) |  |
| Missing | 4 (-7, 10) |  |
| **In-hospital mortality** |  |  |
| Yes | 10 (7.9, 25.8) |  |
| No | -10 (-26, -9) |  |
| Missing | 2 (0, 5.62) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 3 (-4, 23.89) |  |
| No | -2.4 (-22.17, 4.73) |  |
| Missing | 27 (22, 49) |  |
| **Return to work** |  |  |
| Yes | 16 (-47.27, 44) |  |
| No | -16 (-46, 43) |  |
| Missing | 43 (2, 65) |  |
| **Pulmonary complication** |  |  |
| Yes | 2.2 (1.9, 10) |  |
| No | -2 (-10, -3) |  |
| Missing | 32 (4, 49.28) |  |
| **Septic complication** |  |  |
| Yes | -0.5 (-5.4, 5.63) |  |
| No | 0 (-8, 3) |  |
| Missing | 34 (5, 52) |  |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 32 (5, 50.63) |  |
| **Coagulopathy** |  |  |
| Yes | 0 (-13, 0) |  |
| No | 0 (-17, -2.77) |  |
| Missing | 33 (6, 51) |  |
| **Need for reexploration or resurgery** |  |  |
| Yes | 3 (1, 10) |  |
| No | -3 (-11, -2) |  |
| Missing | 41 (28, 60.08) |  |
| **Failure of conservative management** |  |  |
| No | -2 (-27, 0) |  |
| Yes | 2.3 (0, 27.3) |  |
| Missing | 41 (-5.86, 60) |  |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | -9 (-35, 27.92) |  |
| I have some problems in walking | 8 (-2.52, 36.58) |  |
| I am confined to bed | -0.4 (-71.43, 11.8) |  |
| Missing | 44 (40, 74) |  |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | -14 (-54, 13) |  |
| I have some problems bathing or dressing myself | 19.7 (1.36, 57.98) |  |
| I am unable to bathe or dress myself | -6.4 (-36.48, 11) |  |
| Missing | 44 (40, 74) |  |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | -16 (-59.47, 8) |  |
| I have some problems in performing my usual activities | 16.7 (-4, 48.08) |  |
| I am unable to perform my usual activities | 0.1 (-25, 21.77) |  |
| Missing | 44 (40, 74) |  |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -39 (-78.7, -30) |  |
| I have moderate pain or discomfort | 27 (16, 61) |  |
| I have extreme pain or discomfort | 11.4 (0.8, 31.48) |  |
| Missing | 44 (40, 74) |  |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | -9 (-36, 24) | 0.59 (0.16, 3.98) |
| I am moderately anxious or depressed | 7.8 (-28.11, 33.6) | 0.59 (0.17, 4.72) |
| I am extremely anxious or depressed | 1.5 (0, 13.5) |  |
| Missing | 44 (40, 74) |  |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | 5 (-21, 42) |  |
| I have some problems in walking | 11 (-6, 57.81) |  |
| I am confined to bed | -16.5 (-82.9, -9.9) |  |
| Missing | 48 (1.95, 69) |  |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | 2 (-41, 23) |  |
| I have some problems bathing or dressing myself | 13.2 (-7, 62.38) |  |
| I am unable to bathe or dress myself | -15.8 (-37.73, 11.74) |  |
| Missing | 48 (1.95, 69) |  |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | 6 (-66.4, 23) |  |
| I have some problems in performing my usual activities | -4 (-15, 45.45) |  |
| I am unable to perform my usual activities | -1.5 (-11.7, 26.54) |  |
| Missing | 48 (1.95, 69) |  |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | -4 (-45, 22.09) |  |
| I have moderate pain or discomfort | 0 (-34.82, 31) |  |
| I have extreme pain or discomfort | 4.3 (3.7, 12.9) |  |
| Missing | 48 (1.95, 69) |  |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | -13 (-60, -7) |  |
| I am moderately anxious or depressed | 9.3 (-1.33, 60.2) |  |
| I am extremely anxious or depressed | 3.3 (3.2, 12.9) |  |
| Missing | 48 (1.95, 69) |  |
| **Patient satisfaction** |  |  |
| Very satisfied | -18 (-61.3, -5) |  |
| Somewhat satisfied | 1.3 (-32, 20.11) |  |
| Somewhat dissatisfied | 5.6 (0.5, 19.4) |  |
| Very dissatisfied | 11 (9.75, 25) |  |
| Missing | 24 (21, 48) |  |
| **Number of hospitalizations for this injury** | 0 (-1, -1) |  |
| Missing | 29 (-12, 47) |  |
| **EQ-5D health state at discharge** | -10 (-73.91, 22) |  |
| Missing | 35 (10, 57.3) |  |
| **EQ-5D health state at 30 day follow-up** | 73 (30, 114) |  |
| Missing | 45 (2, 67) |  |
| **Cost of treatment** | -10975 (-54750.09, 1000) |  |
| Missing | 64 (45, 96.9) |  |

## Absolute and relative differences in changes from baseline for all outcomes, comparing ATLS with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 8.9 (-6.61, 26.96) |  |
| No | -9 (-27, 5) |  |
| Missing | -4 (-37, 1) |  |
| **24 hour mortality** |  |  |
| Yes | 0 (-9.07, 0) |  |
| No | 0 (-11, -2) |  |
| Missing | -3 (-15, 0) |  |
| **In-hospital mortality** |  |  |
| Yes | 6.6 (0.8, 24.78) |  |
| No | -7 (-25, -3) |  |
| Missing | 1 (-1, 5) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 7 (4, 41) |  |
| No | -7.1 (-41.1, -5.02) |  |
| Missing | 5 (-13, 29) |  |
| **Return to work** |  |  |
| Yes | -21 (-89, -9.41) |  |
| No | 21 (7, 89) |  |
| Missing | -2 (-61.55, 10) |  |
| **Pulmonary complication** |  |  |
| Yes | 2.2 (1.9, 10) |  |
| No | -2 (-10, -3) |  |
| Missing | 0 (-39.18, 30) |  |
| **Septic complication** |  |  |
| Yes | 1.2 (-2, 9.63) |  |
| No | -1 (-11, 1) |  |
| Missing | 1 (-37, 35) |  |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 1 (-35.51, 32.96) |  |
| **Coagulopathy** |  |  |
| Yes | 4.3 (4, 16) |  |
| No | -4 (-16, -4) |  |
| Missing | 1 (-36, 34) |  |
| **Need for reexploration or resurgery** |  |  |
| Yes | 0.5 (-4.3, 4) |  |
| No | 0 (-4, 4) |  |
| Missing | 2 (-39, 43) |  |
| **Failure of conservative management** |  |  |
| No | -8 (-28, -8) |  |
| Yes | 8.6 (7.93, 28.5) |  |
| Missing | -8 (-67, 2) |  |
| **EQ-5D mobility at discharge** |  |  |
| I have no problems in walking | 13 (0, 72) |  |
| I have some problems in walking | 9.7 (0.8, 45) |  |
| I am confined to bed | -23.4 (-57.5, -20) |  |
| Missing | 9 (-19, 46) |  |
| **EQ-5D self-care at discharge** |  |  |
| I have no problems with self-care | 4 (-21, 46) |  |
| I have some problems bathing or dressing myself | -2.3 (-40.18, 16.1) |  |
| I am unable to bathe or dress myself | -2.4 (-29, 22.9) |  |
| Missing | 9 (-19, 46) |  |
| **EQ-5D usual activities at discharge** |  |  |
| I have no problems in performing my usual activities | 2 (-24, 45.1) |  |
| I have some problems in performing my usual activities | 3.7 (-23, 33.17) |  |
| I am unable to perform my usual activities | -4.9 (-39.95, 11) |  |
| Missing | 9 (-19, 46) |  |
| **EQ-5D pain/discomfort at discharge** |  |  |
| I have no pain or discomfort | -14 (-59.68, 25) |  |
| I have moderate pain or discomfort | 16 (-8, 62.56) |  |
| I have extreme pain or discomfort | -2.6 (-30, 2.21) |  |
| Missing | 9 (-19, 46) |  |
| **EQ-5D anxiety/depression at discharge** |  |  |
| I am not anxious or depressed | 11 (-4, 70) | 1.5 (0.82, 35) |
| I am moderately anxious or depressed | -14 (-67.3, -3) | 1.74 (0.98, 28.5) |
| I am extremely anxious or depressed | 2.4 (0.9, 11.4) |  |
| Missing | 9 (-19, 46) |  |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| I have no problems in walking | 6 (-23, 44) | 1.86 (0.76, 44) |
| I have some problems in walking | 10 (-5.5, 62.26) |  |
| I am confined to bed | -16.4 (-101.8, -4.8) |  |
| Missing | -3 (-71.03, 5) |  |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| I have no problems with self-care | -9 (-93, 4) |  |
| I have some problems bathing or dressing myself | -2.3 (-29.88, 19.24) |  |
| I am unable to bathe or dress myself | 11.3 (3.65, 62.3) |  |
| Missing | -3 (-71.03, 5) |  |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| I have no problems in performing my usual activities | -29 (-66, -26) |  |
| I have some problems in performing my usual activities | 18 (16, 44.9) |  |
| I am unable to perform my usual activities | 11.3 (9.66, 34.5) |  |
| Missing | -3 (-71.03, 5) |  |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| I have no pain or discomfort | 4 (-25, 40.33) |  |
| I have moderate pain or discomfort | -6 (-51.14, 18.17) |  |
| I have extreme pain or discomfort | 2.3 (0.9, 12) |  |
| Missing | -3 (-71.03, 5) |  |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| I am not anxious or depressed | -26 (-49, -29) |  |
| I am moderately anxious or depressed | 23.6 (23.6, 46) |  |
| I am extremely anxious or depressed | 2.3 (1.9, 11) |  |
| Missing | -3 (-71.03, 5) |  |
| **Patient satisfaction** |  |  |
| Very satisfied | -6 (-40, 16) |  |
| Somewhat satisfied | -12.7 (-57.2, -7) |  |
| Somewhat dissatisfied | 8.1 (5.8, 30) |  |
| Very dissatisfied | 12 (9.9, 26) |  |
| Missing | 5 (-11, 26) |  |
| **Number of hospitalizations for this injury** | 0 (-1, -1) |  |
| Missing | -10 (-55, 4) |  |
| **EQ-5D health state at discharge** | -5 (-65, 25) |  |
| Missing | 2 (-36, 37) |  |
| **EQ-5D health state at 30 day follow-up** | -17 (-109, 2) |  |
| Missing | -4 (-71, 4) |  |
| **Cost of treatment** | -1475 (-17301.12, 14062.44) |  |
| Missing | 4 (-61, 66.23) |  |

# Results with 95% confidence level

## Outcomes in all patients during the entire study period, by treatment arm

| Outcome | ATLS, N = 44 | PTC, N = 130 | Standard care, N = 202 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| 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) |
| **24 hour mortality** |  |  |  |
| Yes |  |  | 0.5 (0, 1.6) |
| No |  |  | 99 (98, 99) |
| Missing | 4 (1, 9) | 13 (6, 20) | 7 (3, 12) |
| **In-hospital mortality** |  |  |  |
| 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) |
| **Self-ambulatory at discharge** |  |  |  |
| 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) |
| **Return to work** |  |  |  |
| 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) |
| **Pulmonary complication** |  |  |  |
| Yes |  | 0.9 (0, 3.5) |  |
| No |  | 99 (95, 100) |  |
| Missing | 11 (5, 18) | 21 (13, 30) | 35 (24, 46) |
| **Septic complication** |  |  |  |
| 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) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 10 (4, 16) | 21 (13, 30) | 33 (21.57, 43) |
| **Coagulopathy** |  |  |  |
| Yes | 3 (0, 16) |  |  |
| No | 97 (84, 100) |  |  |
| Missing | 11 (5, 18) | 22 (14, 32) | 33 (21.57, 43) |
| **Need for reexploration or resurgery** |  |  |  |
| 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) |
| **Failure of conservative management** |  |  |  |
| 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) |
| **EQ-5D mobility at discharge** |  |  |  |
| 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) |
| **EQ-5D self-care at discharge** |  |  |  |
| 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) |
| **EQ-5D usual activities at discharge** |  |  |  |
| 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) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| 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) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| 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) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| 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) |
| **Patient satisfaction** |  |  |  |
| 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) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 13 (7, 20) | 19 (11, 27) | 36 (25, 47) |
| **EQ-5D health state at discharge** | 60 (50, 60) | 80 (79, 79) | 50 (4, 50) |
| Missing | 15 (8, 23) | 35 (25, 47) | 58 (44, 72) |
| **EQ-5D health state at 30 day follow-up** | 88 (80, 100) | 100 (99, 99) | 80 (9, 90) |
| Missing | 18 (10, 26) | 32 (22, 44) | 75 (59, 90) |
| **Cost of treatment** | 5000 (0, 14000) | 2000 (1040.14, 2499) | 3000 (1000, 8000) |
| Missing | 35 (24, 48) | 39 (29, 51.46) | 113 (96, 130) |

## Outcomes in all patients before training, by treatment arm

| Outcome | ATLS, N = 16 | PTC, N = 57 | Standard care, N = 41 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| 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) |
| **24 hour mortality** |  |  |  |
| Yes |  |  | 2.4 (0, 11.05) |
| No |  |  | 98 (88, 100) |
| Missing | 2 (0, 5) | 5 (1, 9) |  |
| **In-hospital mortality** |  |  |  |
| Yes |  | 7 (1.9, 16) | 4.9 (0, 17) |
| No |  | 93 (81.7, 97) | 95 (81, 98) |
| Missing |  |  |  |
| **Self-ambulatory at discharge** |  |  |  |
| 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) |
| **Return to work** |  |  |  |
| 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) |
| **Pulmonary complication** |  |  |  |
| Yes |  | 2.2 (0, 11.73) |  |
| No |  | 98 (88, 100) |  |
| Missing | 6 (2, 11) | 11 (5, 18) | 2 (0, 5) |
| **Septic complication** |  |  |  |
| 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) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 5 (1, 10) | 11 (5, 18) | 1 (0, 3) |
| **Coagulopathy** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 6 (2, 11) | 12 (6, 19) | 1 (0, 3) |
| **Need for reexploration or resurgery** |  |  |  |
| Yes |  | 2.1 (0, 11.23) |  |
| No |  | 98 (86, 100) |  |
| Missing | 4 (1, 8) | 10 (4, 16) | 1 (0, 3) |
| **Failure of conservative management** |  |  |  |
| No |  | 98 (85, 100) |  |
| Yes |  | 2.2 (0, 14.13) |  |
| Missing | 10 (4, 16) | 11 (5, 17) | 2 (0, 5) |
| **EQ-5D mobility at discharge** |  |  |  |
| 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) |
| **EQ-5D self-care at discharge** |  |  |  |
| 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) |
| **EQ-5D usual activities at discharge** |  |  |  |
| 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) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| 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) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| 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) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| 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) |
| **Patient satisfaction** |  |  |  |
| 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) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 10 (4, 16) | 8 (3, 14) | 2 (0, 5) |
| **EQ-5D health state at discharge** | 60 (40, 81.8) | 80 (60, 80) | 50 (3, 80) |
| Missing | 5 (1, 10) | 16 (8, 24) | 10 (4, 17) |
| **EQ-5D health state at 30 day follow-up** | 100 (55, 100) | 100 (90, 100) | 10 (8, 100) |
| Missing | 10 (4, 16) | 15 (8.11, 23) | 14 (8, 22) |
| **Cost of treatment** | 7000 (0, 14000) | 2025 (600, 6000) | 14000 (500, 35000) |
| Missing | 14 (7, 22) | 18 (11, 26) | 23 (14.12, 33) |

## Outcomes in all patients after training, by treatment arm

| Outcome | ATLS, N = 28 | PTC, N = 73 | Standard care, N = 161 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| 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) |
| **24 hour mortality** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 2 (0, 5) | 8 (3, 14) | 7 (3, 12) |
| **In-hospital mortality** |  |  |  |
| 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) |
| **Self-ambulatory at discharge** |  |  |  |
| 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) |
| **Return to work** |  |  |  |
| 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) |
| **Pulmonary complication** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 5 (1, 9) | 10 (5, 17) | 33 (22, 43) |
| **Septic complication** |  |  |  |
| 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) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 5 (1, 9) | 10 (5, 17) | 32 (21, 42) |
| **Coagulopathy** |  |  |  |
| Yes | 4.3 (0, 22.71) |  |  |
| No | 96 (77, 100) |  |  |
| Missing | 5 (1, 9) | 10 (5, 17) | 32 (21, 42) |
| **Need for reexploration or resurgery** |  |  |  |
| 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) |
| **Failure of conservative management** |  |  |  |
| 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) |
| **EQ-5D mobility at discharge** |  |  |  |
| 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) |
| **EQ-5D self-care at discharge** |  |  |  |
| 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) |
| **EQ-5D usual activities at discharge** |  |  |  |
| 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) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| 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) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| 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) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| 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) |
| **Patient satisfaction** |  |  |  |
| 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) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 3 (0, 6) | 11 (5, 18) | 34 (23.34, 46) |
| **EQ-5D health state at discharge** | 65 (50, 80) | 90 (80, 90) | 50 (4, 50) |
| Missing | 10 (4, 17) | 19 (11, 28) | 48 (35, 61) |
| **EQ-5D health state at 30 day follow-up** | 83 (70, 100) |  | 83 (10, 100) |
| Missing | 8 (3, 14) | 17 (9, 25.63) | 61 (47, 74) |
| **Cost of treatment** | 5000 (0, 15000) | 1500 (250, 1600) | 2500 (1000, 8000) |
| Missing | 21 (12, 30) | 21 (12.87, 30) | 90 (74, 106) |

## 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 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| 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) |
| **24 hour mortality** |  |  |  |
| Yes |  |  | -2.4 (-12, 0) |
| No |  |  | 2 (0, 7) |
| Missing | 0 (-4.9, 3) | 3 (-4, 10) | 7 (3, 12) |
| **In-hospital mortality** |  |  |  |
| 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) |
| **Self-ambulatory at discharge** |  |  |  |
| 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) |
| **Return to work** |  |  |  |
| 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) |
| **Pulmonary complication** |  |  |  |
| Yes |  | -2.2 (-12, 0) |  |
| No |  | 2 (0, 7) |  |
| Missing | -1 (-9, 4) | -1 (-11, 7) | 31 (19, 41) |
| **Septic complication** |  |  |  |
| 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) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 0 (-7, 5) | -1 (-11, 7) | 31 (20, 41) |
| **Coagulopathy** |  |  |  |
| Yes | 4.3 (0, 22.71) |  |  |
| No | -4 (-23, 0) |  |  |
| Missing | -1 (-9, 4) | -2 (-12, 5) | 31 (20, 41) |
| **Need for reexploration or resurgery** |  |  |  |
| 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) |
| **Failure of conservative management** |  |  |  |
| 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) |
| **EQ-5D mobility at discharge** |  |  |  |
| 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) |
| **EQ-5D self-care at discharge** |  |  |  |
| 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) |
| **EQ-5D usual activities at discharge** |  |  |  |
| 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) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| 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) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| 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) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| 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) |
| **Patient satisfaction** |  |  |  |
| 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) |
| **Number of hospitalizations for this injury** | 0 (-1, 0) |  |  |
| Missing | -7 (-16.47, -2) | 3 (-6, 12) | 32 (21, 44) |
| **EQ-5D health state at discharge** | 5 (-30, 30) | 10 (-10, 10) | 0 (-68.09, 55) |
| Missing | 5 (-3.48, 11) | 3 (-9, 14) | 38 (22, 52) |
| **EQ-5D health state at 30 day follow-up** | -17 (-33.16, 20) |  | 73 (-13, 92) |
| Missing | -2 (-12, 5) | 2 (-10, 12) | 47 (30, 61.57) |
| **Cost of treatment** | -2000 (-14000, 13000) | -525 (-4922.65, 1000) | -11500 (-49000, 2250) |
| Missing | 7 (-7, 17) | 3 (-10, 14) | 67 (45.64, 86) |

## 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 |
| --- | --- | --- | --- |
| **30 day mortality** |  |  |  |
| 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) |
| **24 hour mortality** |  |  |  |
| Yes |  |  |  |
| No |  |  | 1.02 (1, 1.08) |
| Missing | 1 (0, 4) | 1.6 (0.5, 6) |  |
| **In-hospital mortality** |  |  |  |
| 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 |  |  |  |
| **Self-ambulatory at discharge** |  |  |  |
| 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) |
| **Return to work** |  |  |  |
| 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) |
| **Pulmonary complication** |  |  |  |
| 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) |
| **Septic complication** |  |  |  |
| 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) |
| **Renal failure** |  |  |  |
| Yes |  |  |  |
| No |  |  |  |
| Missing | 1 (0.11, 3) | 0.91 (0.36, 2.5) | 32 (11.5, 42) |
| **Coagulopathy** |  |  |  |
| Yes |  |  |  |
| No | 0.96 (0.77, 1) |  |  |
| Missing | 0.83 (0.14, 2.67) | 0.83 (0.33, 2.07) | 32 (11.5, 42) |
| **Need for reexploration or resurgery** |  |  |  |
| 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) |
| **Failure of conservative management** |  |  |  |
| 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) |
| **EQ-5D mobility at discharge** |  |  |  |
| 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) |
| **EQ-5D self-care at discharge** |  |  |  |
| 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) |
| **EQ-5D usual activities at discharge** |  |  |  |
| 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) |
| **EQ-5D pain/discomfort at discharge** |  |  |  |
| 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) |
| **EQ-5D anxiety/depression at discharge** |  |  |  |
| 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) |
| **EQ-5D mobility at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D self-care at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |  |
| 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) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |  |
| 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) |
| **Patient satisfaction** |  |  |  |
| 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) |
| **Number of hospitalizations for this injury** |  |  |  |
| Missing | 0.3 (0, 1.21) | 1.38 (0.5, 3.64) | 17 (5.33, 41) |
| **EQ-5D health state at discharge** | 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) |
| **EQ-5D health state at 30 day follow-up** | 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) |
| **Cost of treatment** | 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) |

## Absolute and relative differences in outcomes after training, comparing standard care with ATLS

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| 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) |
| **24 hour mortality** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 5 (0, 13) | 3.5 (1.6, 14) |
| **In-hospital mortality** |  |  |
| 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) |
| **Self-ambulatory at discharge** |  |  |
| 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) |
| **Return to work** |  |  |
| 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) |
| **Pulmonary complication** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 28 (5, 49) | 6.6 (4.33, 43) |
| **Septic complication** |  |  |
| 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) |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 27 (4, 48) | 6.4 (4.11, 42) |
| **Coagulopathy** |  |  |
| Yes | -4.3 (-16, 0) |  |
| No | 4 (0, 16) | 1.04 (1, 1.19) |
| Missing | 27 (4, 48) | 6.4 (4.11, 42) |
| **Need for reexploration or resurgery** |  |  |
| 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) |
| **Failure of conservative management** |  |  |
| 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) |
| **EQ-5D mobility at discharge** |  |  |
| 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) |
| **EQ-5D self-care at discharge** |  |  |
| 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) |
| **EQ-5D usual activities at discharge** |  |  |
| 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) |
| **EQ-5D pain/discomfort at discharge** |  |  |
| 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) |
| **EQ-5D anxiety/depression at discharge** |  |  |
| 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) |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| 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) |
| **Patient satisfaction** |  |  |
| 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) |
| **Number of hospitalizations for this injury** |  |  |
| Missing | 31 (21, 47) | 11.33 (6.8, 48) |
| **EQ-5D health state at discharge** | -15 (-84, 75.14) | 0.77 (0.06, 9.82) |
| Missing | 38 (24, 53) | 4.8 (3.23, 23) |
| **EQ-5D health state at 30 day follow-up** | 0 (-60, 50) | 1 (0.37, 2) |
| Missing | 53 (40, 73) | 7.62 (5.5, 53) |
| **Cost of treatment** | -2500 (-33500, 250) | 0.5 (0, 1.5) |
| Missing | 69 (-68, 98) | 4.29 (0.25, 9.3) |

## Absolute and relative differences in outcomes after training, comparing standard care with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| 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) |
| **24 hour mortality** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -1 (-16, 4) | 0.88 (0, 3.33) |
| **In-hospital mortality** |  |  |
| 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) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 2 (-1, 12) | 1.02 (1, 1.14) |
| No | -1.4 (-12, 0.7) |  |
| Missing | 21 (-1, 45) | 8 (1.25, 46) |
| **Return to work** |  |  |
| 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) |
| **Pulmonary complication** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 23 (-22, 40) | 3.3 (0.12, 14.65) |
| **Septic complication** |  |  |
| Yes | -2.4 (-8.7, 0) |  |
| No | 2 (0, 9) | 1.02 (1, 1.1) |
| Missing | 23 (-20, 41) | 3.3 (0.13, 15) |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 22 (-20, 39.08) | 3.2 (0.13, 14.5) |
| **Coagulopathy** |  |  |
| 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) |
| **Need for reexploration or resurgery** |  |  |
| 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) |
| **Failure of conservative management** |  |  |
| 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) |
| **EQ-5D mobility at discharge** |  |  |
| 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) |
| **EQ-5D self-care at discharge** |  |  |
| 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) |
| **EQ-5D usual activities at discharge** |  |  |
| 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) |
| **EQ-5D pain/discomfort at discharge** |  |  |
| 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) |
| **EQ-5D anxiety/depression at discharge** |  |  |
| 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) |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| 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) |
| **Patient satisfaction** |  |  |
| 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) |
| **Number of hospitalizations for this injury** |  |  |
| Missing | 23 (-27, 42.97) | 3.09 (0, 15.5) |
| **EQ-5D health state at discharge** | -40 (-89, -25) | 0.56 (0.06, 0.83) |
| Missing | 29 (-32, 53) | 2.53 (0.18, 8.62) |
| **EQ-5D health state at 30 day follow-up** | -17 (-91, 5) | 0.83 (0.09, 1.1) |
| Missing | 44 (-47, 69.25) | 3.59 (0.14, 14.75) |
| **Cost of treatment** | 1000 (-5000, 27188.83) | 1.67 (0.4, 26.67) |
| Missing | 69 (-5, 98.46) | 4.29 (0.78, 10.67) |

## Absolute and relative differences in outcomes after training, comparing ATLS with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| 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) |
| **24 hour mortality** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -6 (-15, -4) | 0.25 (0, 0.88) |
| **In-hospital mortality** |  |  |
| Yes | -0.4 (-17, 9.31) | 0.9 (0, 3.94) |
| No | 0 (-11, 15) | 1 (0.89, 1.19) |
| Missing | 1 (-2, 6) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 3 (0, 14) | 1.03 (1, 1.16) |
| No | -2.9 (-14, -1.4) |  |
| Missing | 1 (-28, 25) | 1.33 (0, 13) |
| **Return to work** |  |  |
| 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) |
| **Pulmonary complication** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -5 (-42, 5) | 0.5 (0, 2.2) |
| **Septic complication** |  |  |
| 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) |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | -5 (-39, 5) | 0.5 (0, 2.2) |
| **Coagulopathy** |  |  |
| Yes | 4.3 (0, 16) |  |
| No | -4 (-16, 0) | 0.96 (0.84, 1) |
| Missing | -5 (-39, 5) | 0.5 (0, 2.2) |
| **Need for reexploration or resurgery** |  |  |
| Yes | -1.6 (-7.7, 0) |  |
| No | 2 (0, 8) | 1.02 (1, 1.09) |
| Missing | -4 (-46, 5) | 0.6 (0, 2.4) |
| **Failure of conservative management** |  |  |
| 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) |
| **EQ-5D mobility at discharge** |  |  |
| 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) |
| **EQ-5D self-care at discharge** |  |  |
| 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) |
| **EQ-5D usual activities at discharge** |  |  |
| 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) |
| **EQ-5D pain/discomfort at discharge** |  |  |
| 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) |
| **EQ-5D anxiety/depression at discharge** |  |  |
| 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) |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| 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) |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| 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) |
| **Patient satisfaction** |  |  |
| 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) |
| **Number of hospitalizations for this injury** |  |  |
| Missing | -8 (-44, 8) | 0.27 (0, 2.75) |
| **EQ-5D health state at discharge** | -25 (-85, 15) | 0.72 (0.06, 1.39) |
| Missing | -9 (-55, 10) | 0.53 (0.08, 1.92) |
| **EQ-5D health state at 30 day follow-up** | -17 (-91, 0) | 0.83 (0.09, 1) |
| Missing | -9 (-67, 9) | 0.47 (0.04, 2.25) |
| **Cost of treatment** | 3500 (0, 33000) | 3.33 (1, 55.56) |
| Missing | 0 (-95.49, 70) | 1 (0.11, 4.45) |

## Absolute and relative differences in changes from baseline for all outcomes, comparing standard care with ATLS

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 9.6 (-25.64, 31.44) |  |
| No | -9 (-31, 26) |  |
| Missing | 23 (-9.51, 43) |  |
| **24 hour mortality** |  |  |
| Yes | -2.4 (-9.8, 0) |  |
| No | 2 (-3, 10) |  |
| Missing | 7 (-1, 18) |  |
| **In-hospital mortality** |  |  |
| Yes | 3.4 (-16.6, 21.53) |  |
| No | -3 (-22, 16) |  |
| Missing | 1 (-3.52, 5) | 2 (0.5, 5) |
| **Self-ambulatory at discharge** |  |  |
| Yes | -4 (-38, 4) |  |
| No | 4.7 (-3.7, 38) |  |
| Missing | 22 (-31, 39.93) |  |
| **Return to work** |  |  |
| Yes | 37 (18, 86) |  |
| No | -37 (-86, -19) |  |
| Missing | 45 (-39, 71) |  |
| **Pulmonary complication** |  |  |
| Yes | 0 (-12, 0) |  |
| No | 0 (-10, 2) |  |
| Missing | 32 (-33, 51.17) |  |
| **Septic complication** |  |  |
| Yes | -1.7 (-12.85, 5.17) |  |
| No | 1 (-8, 10) |  |
| Missing | 33 (-36, 53.18) |  |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 31 (-34, 50.16) |  |
| **Coagulopathy** |  |  |
| Yes | -4.3 (-16, 0) |  |
| No | 4 (0, 16) |  |
| Missing | 32 (-34, 51.29) |  |
| **Need for reexploration or resurgery** |  |  |
| Yes | 2.5 (-3.8, 10.29) |  |
| No | -3 (-11, 1) |  |
| Missing | 39 (-43, 63.27) | 20.5 (7.8, 58) |
| **Failure of conservative management** |  |  |
| No | 6 (0, 26) |  |
| Yes | -6.3 (-26, -1.5) |  |
| Missing | 49 (33, 66) |  |
| **EQ-5D mobility at discharge** |  |  |
| 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) |  |
| **EQ-5D self-care at discharge** |  |  |
| 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) |  |
| **EQ-5D usual activities at discharge** |  |  |
| 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) |  |
| **EQ-5D pain/discomfort at discharge** |  |  |
| 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) |  |
| **EQ-5D anxiety/depression at discharge** |  |  |
| 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) |  |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| 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) |  |
| **Patient satisfaction** |  |  |
| 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) |  |
| **Number of hospitalizations for this injury** | 0 (-1, -1) |  |
| Missing | 39 (29, 57) |  |
| **EQ-5D health state at discharge** | -5 (-68.92, 60) |  |
| Missing | 33 (-38, 62.24) |  |
| **EQ-5D health state at 30 day follow-up** | 90 (86, 116) |  |
| Missing | 49 (-35, 77) |  |
| **Cost of treatment** | -9500 (-74630.2, 10549.64) |  |
| Missing | 60 (-66, 95) | 9.57 (0.05, 94) |

## Absolute and relative differences in changes from baseline for all outcomes, comparing standard care with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 18.5 (14.1, 44.3) |  |
| No | -18 (-44, -14) |  |
| Missing | 19 (-14.83, 37) |  |
| **24 hour mortality** |  |  |
| Yes | -2.4 (-9.8, 0) |  |
| No | 2 (0, 10) |  |
| Missing | 4 (-10, 12) |  |
| **In-hospital mortality** |  |  |
| Yes | 10 (3.8, 25.8) |  |
| No | -10 (-26, -5) |  |
| Missing | 2 (-1, 6) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 3 (-10, 40.7) |  |
| No | -2.4 (-40.06, 10.2) |  |
| Missing | 27 (15.73, 49) |  |
| **Return to work** |  |  |
| Yes | 16 (-61, 54) |  |
| No | -16 (-56, 57.88) |  |
| Missing | 43 (-6, 69.51) |  |
| **Pulmonary complication** |  |  |
| Yes | 2.2 (0, 10) |  |
| No | -2 (-10, 0) |  |
| Missing | 32 (-3, 52) |  |
| **Septic complication** |  |  |
| Yes | -0.5 (-7.44, 7.44) |  |
| No | 0 (-9, 5) |  |
| Missing | 34 (-2, 55) |  |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 32 (-2, 51) |  |
| **Coagulopathy** |  |  |
| Yes | 0 (-17.31, 4.2) |  |
| No | 0 (-17, 0) |  |
| Missing | 33 (-2, 52) |  |
| **Need for reexploration or resurgery** |  |  |
| Yes | 3 (-0.1, 10.7) |  |
| No | -3 (-11, -1) |  |
| Missing | 41 (-1, 64) |  |
| **Failure of conservative management** |  |  |
| No | -2 (-27, 4) |  |
| Yes | 2.3 (-4.1, 27.3) |  |
| Missing | 41 (-42, 64) |  |
| **EQ-5D mobility at discharge** |  |  |
| 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) |  |
| **EQ-5D self-care at discharge** |  |  |
| 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) |  |
| **EQ-5D usual activities at discharge** |  |  |
| 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) |  |
| **EQ-5D pain/discomfort at discharge** |  |  |
| 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) |  |
| **EQ-5D anxiety/depression at discharge** |  |  |
| 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) |  |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| 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) |  |
| **Patient satisfaction** |  |  |
| 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) |  |
| **Number of hospitalizations for this injury** | 0 (-1, -1) |  |
| Missing | 29 (-33.53, 52) |  |
| **EQ-5D health state at discharge** | -10 (-90, 39) |  |
| Missing | 35 (-3, 59) |  |
| **EQ-5D health state at 30 day follow-up** | 73 (15, 114) |  |
| Missing | 45 (-8, 73.22) |  |
| **Cost of treatment** | -10975 (-81672.96, 7582.31) |  |
| Missing | 64 (-2, 103) |  |

## Absolute and relative differences in changes from baseline for all outcomes, comparing ATLS with PTC

| Outcome | Absolute difference | Relative difference |
| --- | --- | --- |
| **30 day mortality** |  |  |
| Yes | 8.9 (-12.57, 32.12) |  |
| No | -9 (-32.63, 12) |  |
| Missing | -4 (-37, 7) |  |
| **24 hour mortality** |  |  |
| Yes | 0 (-12, 0) |  |
| No | 0 (-11, 0) |  |
| Missing | -3 (-15, 3) |  |
| **In-hospital mortality** |  |  |
| Yes | 6.6 (-4.2, 24.9) |  |
| No | -7 (-25, 2) |  |
| Missing | 1 (-2, 6) |  |
| **Self-ambulatory at discharge** |  |  |
| Yes | 7 (0, 41) |  |
| No | -7.1 (-41.1, -0.7) |  |
| Missing | 5 (-25, 33) |  |
| **Return to work** |  |  |
| Yes | -21 (-89, 10) |  |
| No | 21 (-12, 89) |  |
| Missing | -2 (-66, 41) |  |
| **Pulmonary complication** |  |  |
| Yes | 2.2 (0, 10) |  |
| No | -2 (-10, 0) |  |
| Missing | 0 (-47, 36) |  |
| **Septic complication** |  |  |
| Yes | 1.2 (-3.75, 13.86) |  |
| No | -1 (-14, 3) |  |
| Missing | 1 (-44.28, 39) |  |
| **Renal failure** |  |  |
| Yes |  |  |
| No |  |  |
| Missing | 1 (-41.9, 37) |  |
| **Coagulopathy** |  |  |
| Yes | 4.3 (0, 16) |  |
| No | -4 (-16, 0) |  |
| Missing | 1 (-42.61, 38) |  |
| **Need for reexploration or resurgery** |  |  |
| Yes | 0.5 (-6.1, 5.2) |  |
| No | 0 (-5, 6) |  |
| Missing | 2 (-46, 49) |  |
| **Failure of conservative management** |  |  |
| No | -8 (-28, -2) |  |
| Yes | 8.6 (2.1, 28.5) |  |
| Missing | -8 (-67, 9) |  |
| **EQ-5D mobility at discharge** |  |  |
| 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) |  |
| **EQ-5D self-care at discharge** |  |  |
| 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) |  |
| **EQ-5D usual activities at discharge** |  |  |
| 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) |  |
| **EQ-5D pain/discomfort at discharge** |  |  |
| 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) |  |
| **EQ-5D anxiety/depression at discharge** |  |  |
| 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) |  |
| **EQ-5D mobility at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D self-care at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D usual activities at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D pain/discomfort at 30 day follow-up** |  |  |
| 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) |  |
| **EQ-5D anxiety/depression at 30 day follow-up** |  |  |
| 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) |  |
| **Patient satisfaction** |  |  |
| 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) |  |
| **Number of hospitalizations for this injury** | 0 (-1, -0.5) |  |
| Missing | -10 (-55, 11) |  |
| **EQ-5D health state at discharge** | -5 (-78.91, 41.66) |  |
| Missing | 2 (-44.02, 42) |  |
| **EQ-5D health state at 30 day follow-up** | -17 (-109, 20) |  |
| Missing | -4 (-71, 18) |  |
| **Cost of treatment** | -1475 (-33639.83, 29927.2) |  |
| Missing | 4 (-75, 76) |  |