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### Results with 75% confidence intervals (CI)

#### Outcomes in all patients during the entire study period, by treatment arm (75% CI)

| 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)       | 00 (02, 01)       | 2(0,3)                 |
| Self-ambulatory at discharge                           | 1 (0, 1)       |                   | = (0, 0)               |
| 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                                                |                |                   | 26 (19, 31)            |
|                                                        | 8 (5, 11)      | $11 \ (7, 14)$    | 20 (19, 31)            |
| Return to work                                         | 64 (50 72)     | 79 (66 76)        | E1 (40 E0)             |
| 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                                 |                | 0.0 (6)           |                        |
| 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                    | 11 (1, 11)     | 22 (10, 21)       | 33 (20, 30)            |
| 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)            |
| 9                                                      | 10 (0, 13)     | 20 (14, 20)       | 45 (55, 50)            |
| Failure of conservative management                     | 04 (95 07)     | 00 (04 00)        | 00 (06 00)             |
| No<br>Y                                                | 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                                                |                | * ' '             |                        |
| 9                                                      | 14 (10, 18)    | 29 (22, 34)       | 45 (37, 52)            |
| EQ-5D pain/discomfort at discharge                     | 49 (91.04.59)  | EQ (45 EQ)        | 97 (99, 90)            |
| 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)            |
|                                                        |                |                   |                        |

| 36                                                     | (              | ( 1)              | (= (== ==)           |
|--------------------------------------------------------|----------------|-------------------|----------------------|
| 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 $\mathrm{arm}(75\%~\mathrm{CI})$

| 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                                                                              | 0 (0 0)                                | 90 (83, 94)                | 97 (82.82, 97)               |
| Missing                                                                         | 2(0, 3)                                | 8 (5, 10)                  | 3(1, 4)                      |
| 24 hour mortality                                                               |                                        |                            | 2.4 (0, 6.3)                 |
| Yes                                                                             |                                        |                            | 2.4 (0, 6.3)                 |
| No                                                                              | 0 (0 9)                                | F (0, 7)                   | 98 (93, 100)                 |
| Missing                                                                         | 2(0, 3)                                | 5(2,7)                     |                              |
| In-hospital mortality<br>Yes                                                    |                                        | 7 (9 7 19)                 | 40 (22 11)                   |
| No                                                                              |                                        | 7 (3.7, 12)<br>93 (87, 95) | 4.9 (2.2, 11)<br>95 (87, 97) |
| Missing                                                                         |                                        | 33 (61, 30)                | 99 (81, 91)                  |
| 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                                                                  | 1 (2, 0)                               | 0 (1, 10)                  | 2 (0, 0)                     |
| 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                                                          | 10 (0, 10)                             | 10 (10, 10)                | 12 (0, 10)                   |
| Yes                                                                             |                                        | 2.2(0, 5.9)                |                              |
| No                                                                              |                                        | 98 (90, 98)                |                              |
| Missing                                                                         | 6 (3, 8)                               | 11 (7, 14)                 | 2 (0, 3)                     |
| Septic complication                                                             | 0 (0, 0)                               | 11 (1, 11)                 | 2 (0, 0)                     |
| 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                                                                   | 0 (5, 6)                               | 12 (0, 10)                 | 1 (0, 1)                     |
| Yes                                                                             |                                        |                            |                              |
| No                                                                              |                                        |                            |                              |
| Missing                                                                         | 5 (2, 7)                               | 11 (7, 14)                 | 1 (0, 1)                     |
| Coagulopathy                                                                    | 0 (2, 1)                               | 11 (1, 14)                 | 1 (0, 1)                     |
| Yes                                                                             |                                        |                            |                              |
| No                                                                              |                                        |                            |                              |
| Missing                                                                         | 6 (3, 8)                               | 12 (8, 15)                 | 1 (0, 1)                     |
| Need for reexploration or resurgery                                             | 0 (3, 8)                               | 12 (0, 10)                 | 1 (0, 1)                     |
| 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                                              | 4(2,0)                                 | 10 (0, 13)                 | 1 (0, 1)                     |
| No                                                                              |                                        | 98 (90, 98)                |                              |
| Yes                                                                             |                                        | 2.2 (0, 6.25)              |                              |
|                                                                                 | 10 (6, 12)                             | \ , ' , '                  | 2 (0, 2)                     |
| Missing EQ-5D mobility at discharge                                             | 10 (6, 13)                             | 11 (7, 14)                 | 2(0,3)                       |
| have no problems in walking                                                     | 67 (45, 80)                            | 09 (74 00)                 | 62 (51 60 07)                |
|                                                                                 | ( , ,                                  | 83 (74, 88)                | 62 (51, 69.07)               |
| have some problems in walking                                                   | 8.3 (0, 20)                            | 12 (5.6, 17)               | 18 (11, 25)                  |
| 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                                                    | FO (40 7F)                             | 00 (71 00)                 | FO (40 CT)                   |
| have no problems with self-care                                                 | 58 (40, 75)                            | 80 (71, 86)                | 59 (48, 67)                  |
| have some problems bathing or dressing myself                                   | 17 (7.1, 33)                           | 12 (5.9, 18)               | 15 (7.7, 21)                 |
| 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                                             | FO (00 00)                             | EC (CE 00)                 | F4 (4F 00)                   |
| have no problems in performing my usual activities                              | 50 (29, 63)                            | 76 (67, 82)                | 54 (45, 63)                  |
| have some problems in performing my usual activities                            | * ' '                                  | 15 (8.73, 22)              | 28 (19, 35)                  |
| 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                                              | 00 (4 = 4 = 1 = 1                      | 04 (0= ++)                 | 00 (7: ::)                   |
| have no pain or discomfort                                                      | 33 (17, 47)                            | 34 (25, 44)                | 33 (24, 41)                  |
| have moderate pain or discomfort                                                | 67 (45, 79)                            | 63 (51, 70)                | 41 (30.69, 49)               |
| =                                                                               |                                        | 2.4(0, 6.3)                | 26 (18, 34)                  |
| have extreme pain or discomfort                                                 |                                        | * ' '                      |                              |
| I have extreme pain or discomfort<br>Missing                                    | 4 (2, 6)                               | 16 (11, 20)                | 2(0,3)                       |
| I have extreme pain or discomfort Missing EQ-5D anxiety/depression at discharge | , , ,                                  | 16 (11, 20)                |                              |
| I have extreme pain or discomfort<br>Missing                                    | 4 (2, 6)<br>50 (29, 63)<br>50 (29, 63) | * ' '                      |                              |

| 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 $\mathrm{arm}(75\%~\mathrm{CI})$

| 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                                           |                | 07 (00 00)       | 00 (00 00)                 |
| Yes                                                                    |                | 97 (92, 98)      | 99 (96, 99)                |
| No                                                                     | 4 (1 5)        | 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                                                         | FO (49, CO)    | 70 (61 76)       | F9 (46 F9)                 |
| Yes                                                                    | 58 (43, 69)    | 70 (61, 76)      | 53 (46, 58)                |
| No                                                                     | 42 (30, 55.92) | 30 (22, 36)      | 47 (40, 52)                |
| Missing  Pulmonary complication                                        | 9 (5, 12)      | 16 (11, 20)      | 56 (48, 63)                |
| Pulmonary complication<br>Yes                                          |                |                  |                            |
| No No                                                                  |                |                  |                            |
| Missing                                                                | 5 (2, 7)       | 10 (6, 13)       | 33 (25, 38)                |
| Septic complication                                                    | 0 (2, 1)       | 10 (0, 13)       | 33 (23, 30)                |
| 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                                                          | 0 (2, 1)       | 10 (0, 10)       | 33 (23, 30)                |
| 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                                    | C1 (4E 59)     | 05 (50 00)       | 47 (41 51)                 |
| 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)<br>43 (35, 40) |
| Missing EQ-5D pain/discomfort at discharge                             | 10 (6, 13)     | 13 (9, 17)       | 43 (35, 49)                |
| • • •                                                                  | 50 (22 62)     | 65 (56 71)       | 25 (10, 20)                |
| I have no pain or discomfort                                           | 50 (33, 62)    | 65 (56, 71)      | 25 (19, 28)<br>35 (30, 40) |
| I have moderate pain or discomfort                                     | 50 (32, 60)    | 30 (22, 36)      | 35 (30, 40)                |
| I have extreme pain or discomfort                                      | 10 (6, 19)     | 5 (2.1, 9.2)     | 40 (34, 44)<br>43 (35, 49) |
| Missing EO-5D anxioty/depression at discharge                          | 10 (6, 13)     | 13 (9, 17)       | 45 (55, 49)                |
| EQ-5D anxiety/depression at discharge<br>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)              |
| 1 am moderatery anxious of depressed                                   | 11 (1.1, 20)   | 0 (1.3, 3.14)    | 0.0 (4.0, 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 $arms(75\% \ CI)$

| 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                                                                                           |                                |                                      | 2.4 ( 2.24 . 2)              |
| Yes                                                                                                         |                                |                                      | -2.4 (-6.91, 0)              |
| No<br>Minima                                                                                                | 0 ( 2 1)                       | 2 ( 2 7)                             | 2(0,4)                       |
| Missing In-hospital mortality                                                                               | 0 (-3, 1)                      | 3 (-2, 7)                            | 7 (4, 9.21)                  |
| 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)                       | 0 (-2, 1)                            | 2(0,3)                       |
| Self-ambulatory at discharge                                                                                | 1 (0, 1)                       |                                      | 2 (0, 0)                     |
| 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<br>Missing                                                                                               | 0 ( 5 2)                       | -1 (-7, 3)                           | 21 (22 26)                   |
| Missing Coagulopathy                                                                                        | 0 (-5, 2)                      | -1 (-1, 3)                           | $31\ (23,\ 36)$              |
| 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                                                                         | 1 (0, 1)                       | 2 (0, 2)                             | 01 (20, 00)                  |
| 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                                                                          | ( / /                          | <b>、</b>                             |                              |
| 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                                                                         | 11 ( 14 91)                    | 0 ( 1 17)                            | 7 ( 10 9)                    |
| I have no problems in performing my usual activities I have some problems in performing my usual activities | 11 (-14, 31)                   | 9 (-1, 17)                           | -7 (-18, 3)                  |
| I have some problems in performing my usual activities I am unable to perform my usual activities           | -3 (-24, 14.74)<br>-8 (-27, 9) | -6.7 (-15.2, 0)<br>-3.1 (-10.2, 3.1) | 10 (0.04, 19)<br>-3 (-14, 3) |
| Missing                                                                                                     | 6 (1, 9)                       | -3.1 (-10.2, 3.1)                    | -3 (-14, 3)<br>41 (33, 47)   |
| EQ-5D pain/discomfort at discharge                                                                          | 0 (1, 9)                       | -5 (-10, 5)                          | 41 (33, 41)                  |
| 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                                                                           | 11 (00,0)                      | 2.6 (-2, 6.51)                       | 14 (2, 20)                   |
| Missing                                                                                                     | 6 (1, 9)                       | -3 (-10, 3)                          | 41 (33, 47)                  |
| EQ-5D anxiety/depression at discharge                                                                       | · (±, v)                       | 0 (10,0)                             | 11 (30, 11)                  |
| 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                    | -33 (-34, -14)       | -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                     | 0 (1, 3)             | -5 (-10, 5)           | 41 (00, 41)            |
| 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                    | -2 (-0, 2)           | 1 (-0, 0)             | 43 (03, 00)            |
| 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             | 2 ( 0, 2)            | 1 (0,0)               | 10 (30, 33)            |
| 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              | - ( =, -)            | - ( 0, 0)             | (,)                    |
| 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 $arms(75\% \ CI)$

| 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                                    | ,                       | ŕ                       | •                        |
| 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                    | 0.00 (0.00, 2.0)        | 0.00 (0.0, 2.0)         | 0= (=0, ==)              |
| 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                     | 1.0 (0.0, 0)            | 1 (0.00, 1.0)           | 42 (32, 32)              |
| No                                                     | 0.92 (0.8, 0.96)        | 1 (0.95, 1.01)          | 0.98 (0.94, 0.98)        |
| Yes                                                    | 0.92 (0.8, 0.90)        |                         | 0.98 (0.94, 0.98)        |
|                                                        | 0.2 (0.11 0.67)         | 0.73 (0.18, 2.51)       | 99 (11 45)               |
| Missing FO 5D mobility at disabarga                    | $0.3\ (0.11,\ 0.67)$    | $1.09 \ (0.67, \ 1.75)$ | $22\ (11,\ 45)$          |
| EQ-5D mobility at discharge                            | 1 99 (1 04 1 70)        | 1 11 (1 01 1 09)        | 1 (0.84, 1.10)           |
| 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 5 (1 17 4 65)         | 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                           | 1 10 (0 00 1 70)        | 1.00 (0.00 1.15)        | 0.05 (0.51 1.00)         |
| 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                  | 2.0 (2.21, 2.01)        | 5.51 (5.52, 1.51)       | 21.0 (10.0, 10)          |
| 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 all hot allifous of depressed                        | 1.00 (1.11, 2.0)        | 2.0 (1.11, 1.40)        | 1.10 (1.01, 1.02)        |

| 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                                  | 0.00 (0.20, 0.00)      | 0.00 (0.21, 0.1)        | 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             | 2 (0.55, 1)            | 0.0 (0.11, 1)           | 11.0 (0.1, 20)          |
| 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)      | 1.10 (0.0, 1.02)        | 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)       |
| 111001119                                              | 1.0 (0.04, 2.09)       | 1.11 (0.01, 1.1)        | 0.01 (2.00, 4.00)       |

# Absolute and relative differences in outcomes after training, comparing standard care with ATLS(75% CI)

| 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                                    | 0.0 (1.4.7.04)      |                         |
| Yes                                                    | 0.8 (-1.4, 5.64)    | 0.00 (0.00 1.01)        |
| 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<br>Minning                                          | 97 (94 44 01)       | 6 4 (7 5 49)            |
| Missing                                                | 27 (24, 44.91)      | 6.4 (7.5, 42)           |
| Coagulopathy                                           | 42 (16 62)          |                         |
| Yes                                                    | -4.3 (-16, -6.3)    | 1.04 (1.04. 1.10)       |
| No<br>Missing                                          | 4 (4, 16)           | 1.04 (1.04, 1.19)       |
| Need for reexploration or resurgery                    | 27 (24, 44.91)      | $6.4\ (7.5,\ 42)$       |
| 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                     | 30 (32.0, 34.03)    | 1 (1.10, 40)            |
| 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                            | 11 (10, 00)         | 11.07 (20.0, 00)        |
| 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)      | (00, 0-0-)              |
| 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)         | 40 (4 00 5)             |
| Missing                                                | 33 (27, 47.79)        | 4.3 (4, 20.5)           |
| EQ-5D mobility at 30 day follow-up                     | 0 ( 00 00)            | 0.00 (0.00 1.00)        |
| 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(75% CI)

| 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                                         | 45 (44 40)          | 0 =0 (0 10 0 =0)         |
| 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                                                     | 22 (2, 27)          | 0.0 (0.4.0.05)           |
| Missing                                                | 23(2,35)            | $3.3 \ (0.4,  8.25)$     |
| Septic complication                                    | 94(97 29)           |                          |
| Yes<br>N-                                              | -2.4 (-8.7, -3.2)   | 1.00 (1.02 1.1)          |
| No<br>Minima                                           | 2(1, 9)             | 1.02 (1.03, 1.1)         |
| Missing Renal failure                                  | 23 (3, 35)          | $3.3 \ (0.42,  8.25)$    |
| Yes                                                    |                     |                          |
| Yes<br>No                                              |                     |                          |
| Missing                                                | 22 (2, 24)          | 3 2 (0 4 8)              |
| Coagulopathy                                           | 22 (2, 34)          | 3.2 (0.4, 8)             |
| 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                    | 22 (2, 31)          | 0.2 (0.1, 0)             |
| 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)        | 0.01 (1.05 5.15)          |
| Missing                                                | 30(2,44)             | $3.31\ (1.07,\ 7.17)$     |
| EQ-5D mobility at 30 day follow-up                     | 24 ( 72 24)          | 0 =0 (0 = 0 ==)           |
| 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(75% CI)

| 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                                     | 9 (9 14)            | 1.00 (1.00 1.10)        |
| Yes                                                              | 3 (3, 14)           | $1.03 \ (1.03, \ 1.16)$ |
| No<br>Missing                                                    | -2.9 (-14, -3.9)    | 1 22 (0 17 6 5)         |
| Missing Return to work                                           | 1 (-17.48, 18.69)   | $1.33 \ (0.17, \ 6.5)$  |
| 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                                           | -1 (-05, -4)        | 0.50 (0.00, 0.14)       |
| 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)      | 0.00 (0.04, 0.04)       |
| No<br>Minning                                                    | -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                               | 1 (10, 0)           | 0.0 (0, 0.00)           |
| 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                              | 24 ( 72 77 42)      | 0 = 2 (0 10 0 0)        |
| 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 EQ-5D pain/discomfort at discharge                       | -3 (-48.57, -1)     | $0.77 \ (0.12, \ 0.92)$ |
| I have no pain or discomfort                                     | -15 (-44, 15)       | 0.77 (0.37, 1.47)       |
| I have no pain of discomfort  I have moderate pain or discomfort | 20 (25, 49)         | 1.67 (1.88, 4.46)       |
| I have extreme pain or discomfort                                | -5 (-49, -2)        | 1.01 (1.00, 1.10)       |
| 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)          |
| 3                                                      | - ( / /               | ( / /                   |

## Absolute and relative differences in changes from baseline for all outcomes, comparing standard care with ATLS(75% CI)

| 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                           | 4 ( 20 10 2)        |                     |
| Yes                                                    | -4 (-26.16, -2)     |                     |
| No                                                     | 4.7 (1.5, 25.76)    |                     |
| Missing                                                | 22 (-22, 34)        |                     |
| Return to work                                         | 2= (10, 00)         |                     |
| 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) |
| annow or doprocod                                      | 20 ( .0, 10)        | 0.00 (10.10, 0.00)  |

| I am moderately anxious or depressed<br>I am extremely anxious or depressed | 21.8 (19.92, 68)<br>-0.9 (-6.4, 2.3) | 0.34 (-21.96, 0.54)    |
|-----------------------------------------------------------------------------|--------------------------------------|------------------------|
| Missing                                                                     | 35 (-41, 53)                         |                        |
| EQ-5D mobility at 30 day follow-up                                          | 4 ( 04 44 44 )                       |                        |
| 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                                         | 11 (6, 40,99)                        |                        |
| 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 EQ-5D usual activities at 30 day follow-up                          | 51 (44, 71)                          |                        |
| 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                                   | 31 (44, 71)                          |                        |
| 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                                | 51 (44, 71)                          |                        |
| 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                                                        | v= (, ·-)                            |                        |
| 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(75% CI)

| 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 inoderate ball of disconnon.                    |                                |                     |
|                                                        | 11.4 (3. 29)                   |                     |
| I have extreme pain or discomfort                      | 11.4 (3, 29)<br>44 (43.87, 74) |                     |
|                                                        | 11.4 (3, 29)<br>44 (43.87, 74) |                     |

| 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(75% CI)

| 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                  | 0 (14, 42)            |                     |
| I am not anxious or depressed                          | 11 (3 64 2)           | 15 (11 26 85)       |
| 1 am not anxious of depressed                          | 11 (3, 64.2)          | 1.5 (1.1, 26.85)    |
|                                                        |                       |                     |

| Part                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I am moderately anxious or depressed<br>I am extremely anxious or depressed<br>Missing | -14 (-67.3, -10.79)<br>2.4 (2.2, 11.4)<br>9 (-14, 42) | 1.74 (1.44, 28.5)  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------|
| I have some problems in walking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EQ-5D mobility at 30 day follow-up                                                     |                                                       |                    |
| 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     I have some problems in performing my usual activities     I have some problems in performing my usual activities     I have no problems in performing my usual activities     I have no problems in performing my usual activities     I have no problems in performing my usual activities     I have no problems in performing my usual activities     I have no pain or discomfort   4 (-18, 34.53)     I have moderate pain or discomfort   -6 (-41, 11)     I have moderate pain or discomfort   -6 (-41, 11)     I have extreme pain or discomfort   -2 (-44, -34.75)     I am moderately anxious or depressed   -3 (-68.49, 1)     EQ-5D anxiety/depression at 30 day follow-up     I am moderately anxious or depressed   -26 (-49, -34.75)     I am moderately anxious or depressed   -26 (-49, -34.75)     I am extremely anxious or depressed   -23 (-29.3, 46)     I am extremely anxious or depressed   -26 (-35.2, 9)     Somewhat satisfied   -6 (-35.2, 9)     Somewhat satisfied   -12.7 (-57.2, -12.27)     Somewhat dissatisfied   -10 (-55, -6)     EQ-5D health state at discharge   -5 (-51.47, 15)     Missing   -10 (-55, -6)     EQ-5D health state at discharge   -5 (-51.47, 15)     Cost of treatment   -1475 (-11500, 11956.72)                                                                                                                                                                                                | I have no problems in walking                                                          | 6 (-15, 37)                                           | 1.86 (1.33, 42.79) |
| Missing       -3 (-68.49, 1)         EQ-5D self-care at 30 day follow-up       -9 (-63.63, -2)         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       -29 (-66, 34)         I have no problems in performing my usual activities       18 (21.2, 44.9)         I am unable to perform my usual activities       18 (21.2, 44.9)         I am unable to perform my usual activities       18 (21.2, 44.9)         I am object on prior discomfort       4 (-18, 34.53)         I have no 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       -26 (-49, -34.75)         I am moderately anxious or depressed       2.3 (2.4, 11)         I am extremely anxious or depressed       2.3 (2.4, 11)         I am extremely anxious or depressed       2.3 (2.4, 11)         Very atisfied       -6 (-35.2, 9)         Somewhat dissatisfied       8.1 (8.5, 30)         Very dissatisfied       12 (7.7, 2, -12.27)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I have some problems in walking                                                        | 10 (1, 57.78)                                         |                    |
| FQ-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)   -3 (-68.49, 1)   FQ-5D usual activities at 30 day follow-up   I have no problems in performing my usual activities   I have some problems in performing my usual activities   I munable to perform my usual activities   18 (21.2, 44.9)   18 (21.2, 44.9)   11.3 (14.7, 34.5)   -3 (-68.49, 1)   11.3 (14.7, 34.5)   -3 (-68.49, 1)   11.3 (14.7, 34.5)   -3 (-68.49, 1)   11.3 (14.7, 34.5)   -3 (-68.49, 1)   11.3 (14.7, 34.5)   -3 (-68.49, 1)   11.3 (14.7, 34.5)   -3 (-68.49, 1)   11.3 (14.7, 34.5)   -3 (-68.49, 1)   11.3 (14.7, 34.5)   -3 (-68.49, 1)   -4 (-69.49, 34.75)   -3 (-68.49, 1)   -4 (-69.49, 34.75)   -3 (-68.49, 1)   -4 (-69.49, 34.75)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3 (-68.49, 1)   -3    | I am confined to bed                                                                   | -16.4 (-89.42, -12.1)                                 |                    |
| I have no problems with self-care I have some problems bathing or dressing myself I am unable to bathe or dress myself I am unable to bathe or dress myself I ii.3 (11.16, 62.3) Missing I ii.3 (11.16, 62.3) Missing I ii.3 (11.16, 62.3)  Missing I ii.3 (11.16, 62.3)  A ii.4 (11.16, 62.3)  A ii.5 (11.16, 62.3)  A ii.6 (-64.9, 1)  EQ-5D usual activities at 30 day follow-up I have no problems in performing my usual activities I am unable to perform my usual activities I have some problems in performing my usual activities I have no pain or discomfort at 30 day follow-up I have no pain or discomfort I have extreme pain or discomfort I have extreme pain or discomfort I have extreme pain or discomfort I am not anxious or depressed I am extremely anxious or depre  | Missing                                                                                | -3 (-68.49, 1)                                        |                    |
| I have some problems bathing or dressing myself   I am unable to bathe or dress myself   I ave no problems in performing my usual activities   I have some problems in performing my usual activities   I am unable to perform my usual activities   I am (1 a. (14.7, 34.5)   I ave no pain or discomfort   4 (-18. 34.53)   I have moderate pain or discomfort   2.3 (1.81, 10.67)   I have extreme pain or discomfort   2.3 (1.81, 10.67)   I have extreme pain or discomfort   2.3 (1.81, 10.67)   I have extreme pain or discomfort   2.3 (2.4, 11)   I have extremely anxious or depressed   2.3 (2.9, 23, 46)   I am moderately anxious or depressed   2.3 (2.4, 11)   I am extremely anxious or depressed   2.3 (2.4, 11)   I am extremely anxious or depressed   2.3 (2.4, 11)   I am extremely anxious or depressed   2.3 (-68.49, 1)   Patient satisfaction   -6 (-35.2, 9)   -12.7 (-57.2, -12.27)   Somewhat satisfied   -6 (-35.2, 9)   -12.7 (-57.2, -12.27)   Somewhat dissatisfied   -12 (13.3, 26)   -12 (13.3, 26)   -12 (13.3, 26)   -12 (15.5, -6)   -12 (-55, -6)   -12 (-55, -6)   -12 (-55, -6)   -12 (-55, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -6)   -12 (-50, -   | EQ-5D self-care at 30 day follow-up                                                    |                                                       |                    |
| I am unable to bathe or dress myself   Missing   -3 (-68.49, 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I have no problems with self-care                                                      | -9 (-63.63, -2)                                       |                    |
| Missing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I have some problems bathing or dressing myself                                        |                                                       |                    |
| EQ-5D usual activities at 30 day follow-up I have no problems in performing my usual activities I have some problems in performing my usual activities I am unable to perform my usual activities I am unable to perform my usual activities Missing  EQ-5D pain/discomfort at 30 day follow-up I have no pain or discomfort I have moderate pain or discomfort I have extreme pain or discomfort I have extreme pain or discomfort I have extreme pain or decomfort I have extreme pain or decomfort I have extreme pain or decomfort I am not anxious or depressed I am moderately anxious or depressed I am mederately anxious or depressed I am extremely anxi | I am unable to bathe or dress myself                                                   | 11.3 (11.16, 62.3)                                    |                    |
| I have no problems in performing my usual activities I have some problems in performing my usual activities I am unable to perform my usual activities Missing  EQ-5D pain/discomfort at 30 day follow-up I have no pain or discomfort I have moderate pain or discomfort I have extreme pain or discomfort I have extremely anxious or depressed I am not anxious or depressed I am moderately anxious or depressed I am extremely anxious or depressed I anxious or depressed I anxious or depressed I anxious or depressed  | Missing                                                                                | -3 (-68.49, 1)                                        |                    |
| I have some problems in performing my usual activities I am unable to perform my usual activities Missing EQ-5D pain/discomfort at 30 day follow-up I have no pain or discomfort I have extreme pain or discomfort I have moderate pain or discomfort I have extreme pain or discomfort I have moderate pain or discomfort | EQ-5D usual activities at 30 day follow-up                                             |                                                       |                    |
| I am unable to perform my usual activities  Missing  EQ-5D pain/discomfort at 30 day follow-up I have no pain or discomfort I have moderate pain or discomfort I have extreme pain or discomfort I have no developed I have no developed I have no d | I have no problems in performing my usual activities                                   | -29 (-66, -34)                                        |                    |
| Missing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I have some problems in performing my usual activities                                 | 18 (21.2, 44.9)                                       |                    |
| EQ-5D pain/discomfort at 30 day follow-up I have no pain or discomfort I have moderate pain or discomfort I have extreme pain or discomfort I have extremely anxious or depressed I have extreme pain or discomfort I have extreme pain or discomfor | I am unable to perform my usual activities                                             | 11.3 (14.7, 34.5)                                     |                    |
| I have no pain or discomfort  I have moderate pain or discomfort  I have extreme pain or discomfort  EQ-5D anxiety/depression at 30 day follow-up I am not anxious or depressed  I am not anxious or depressed  I am moderately anxious or depressed  I am extremely anxious or depressed  I a | Missing                                                                                | -3 (-68.49, 1)                                        |                    |
| I have moderate pain or discomfort I have extreme pain or discomfort I have extreme pain or discomfort  I have extreme pain or discomfort  EQ-5D anxiety/depression at 30 day follow-up I am not anxious or depressed I am moderately anxious or depressed I am extremely anxious or 20 (-49.5, 29) I am extremely anxious or  | EQ-5D pain/discomfort at 30 day follow-up                                              |                                                       |                    |
| I have extreme pain or discomfort  Missing  EQ-5D anxiety/depression at 30 day follow-up I am not anxious or depressed I am extremely anxious or depressed I an extremely anxi | I have no pain or discomfort                                                           | 4 (-18, 34.53)                                        |                    |
| Missing       -3 (-68.49, 1)         EQ-5D anxiety/depression at 30 day follow-up       -26 (-49, -34.75)         I am not 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       -6 (-35.2, 9)         Very satisfied       -6 (-35.2, 9)         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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I have moderate pain or discomfort                                                     | -6 (-41, 11)                                          |                    |
| EQ-5D anxiety/depression at 30 day follow-up I am not anxious or depressed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | I have extreme pain or discomfort                                                      | $2.3 \ (1.81, \ 10.67)$                               |                    |
| 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       -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                                                                                | -3 (-68.49, 1)                                        |                    |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EQ-5D anxiety/depression at 30 day follow-up                                           |                                                       |                    |
| I am extremely anxious or depressed       2.3 (2.4, 11)         Missing       -3 (-68.49, 1)         Patient satisfaction       -6 (-35.2, 9)         Very satisfied       -12.7 (-57.2, -12.27)         Somewhat satisfied       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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | I am not anxious or depressed                                                          | -26 (-49, -34.75)                                     |                    |
| Missing       -3 (-68.49, 1)         Patient satisfaction       -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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | I am moderately anxious or depressed                                                   | . , ,                                                 |                    |
| Patient satisfaction  Very satisfied                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I am extremely anxious or depressed                                                    | 2.3 (2.4, 11)                                         |                    |
| 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                                                                                | -3 (-68.49, 1)                                        |                    |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                        |                                                       |                    |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Very satisfied                                                                         |                                                       |                    |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Somewhat satisfied                                                                     | -12.7 (-57.2, -12.27)                                 |                    |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                        | $8.1 \ (8.5, \ 30)$                                   |                    |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Very dissatisfied                                                                      | 12 (13.3, 26)                                         |                    |
| 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                                                                                | 5 (-8, 24)                                            |                    |
| EQ-5D health state at discharge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Number of hospitalizations for this injury                                             | 0 (-1, -1)                                            |                    |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9                                                                                      |                                                       |                    |
| EQ-5D health state at 30 day follow-up  Missing  -17 (-104.11, -5.16)  -4 (-69.69, 0)  Cost of treatment  -185 (-11500, 11956.72)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EQ-5D health state at discharge                                                        |                                                       |                    |
| Missing -4 (-69.69, 0)<br><b>Cost of treatment</b> -1475 (-11500, 11956.72)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9                                                                                      |                                                       |                    |
| Cost of treatment -1475 (-11500, 11956.72)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EQ-5D health state at 30 day follow-up                                                 | , , ,                                                 |                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9                                                                                      |                                                       |                    |
| Missing 4 (43.81.61)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                        |                                                       |                    |
| Vilishing 4 (-40.01, 01)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Missing                                                                                | 4 (-43.81, 61)                                        |                    |

### Results with 85% confidence intervals (CI)

#### Outcomes in all patients during the entire study period, by treatment arm (85% CI) $\,$

| 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                                 | 10 (10, 24)      | 01 (20, 00)     | 00 (00, 10)            |
| Yes                                                    |                  | 0.9(0, 2.2)     |                        |
| No                                                     |                  | 99 (95, 99)     |                        |
| Missing                                                | 11 (7, 15)       | 21 (14, 27)     | 35 (26, 43)            |
| Septic complication                                    | 11 (7, 10)       | 21 (14, 21)     | 33 (20, 43)            |
|                                                        |                  | 27 (150 60)     | 19 (0.95)              |
| Yes                                                    |                  | 3.7 (1.58, 6.9) | 1.2 (0, 2.5)           |
| No<br>M:                                               | 11 (7 15)        | 96 (91, 97)     | 99 (94.62, 99)         |
| Missing                                                | $11 \ (7, \ 15)$ | 22 (15, 28)     | 34 (25, 41)            |
| Renal failure                                          |                  |                 |                        |
| Yes                                                    |                  |                 |                        |
| No                                                     | 10 (0 11)        | 24 (44 25)      | 22 (24 42)             |
| 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                    | 11 (0, 20)       | 20 (21, 00)     | 10 (00, 04)            |
| I have no problems in performing my usual activities   | 57 (43, 69)      | 81 (74 85)      | 48 (41 52)             |
|                                                        |                  | 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                     | 40 (00 70)       | FO (40 FO)      | 07 (01 01)             |
| 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             | 10 (0 10)       | 10 (10 07)        | 00 (05 55 44)      |
| 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 $\mathrm{arm}(85\%~\mathrm{CI})$

| 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                                                                                                                                                                                   | - (- 1)                                   | - ()                                           | 98 (91, 100)                           |
| Missing                                                                                                                                                                              | 2(0,4)                                    | 5(2, 8)                                        |                                        |
| In-hospital mortality                                                                                                                                                                |                                           | 7 (0.0.10)                                     | 4.0 (0. 10)                            |
| Yes                                                                                                                                                                                  |                                           | 7 (3.3, 13)                                    | 4.9 (0, 12)                            |
| No                                                                                                                                                                                   |                                           | 93 (85, 96)                                    | 95 (84, 98)                            |
| Missing                                                                                                                                                                              |                                           |                                                |                                        |
| Self-ambulatory at discharge<br>Yes                                                                                                                                                  | 92 (69.31, 100)                           | 06 (97 09)                                     | 95 (85.67, 98)                         |
| No                                                                                                                                                                                   | , , ,                                     | 96 (87, 98)                                    |                                        |
| Missing                                                                                                                                                                              | 8.3 (0, 27)                               | $4.1\ (1.6,\ 10) \\ 8\ (4,\ 11)$               | 5.1 (0, 12.46)                         |
| Return to work                                                                                                                                                                       | 4(1, 6)                                   | 0 (4, 11)                                      | 2(0,4)                                 |
| Yes                                                                                                                                                                                  | 83 (50, 100)                              | 74 (62.76, 82)                                 | 41 (27, 53)                            |
| No                                                                                                                                                                                   | 17 (0, 50)                                | 26 (16, 35)                                    | 59 (44, 70)                            |
|                                                                                                                                                                                      | 1 / /                                     | N. 1                                           |                                        |
| Missing Pulmonary complication                                                                                                                                                       | 10 (5, 14)                                | 15 (9, 20)                                     | 12 (7, 16)                             |
| Yes                                                                                                                                                                                  |                                           | 2.2 (0, 7.1)                                   |                                        |
| Yes<br>No                                                                                                                                                                            |                                           | 98 (88, 100)                                   |                                        |
| Missing                                                                                                                                                                              | 6 (3, 9)                                  | 11 (6, 15)                                     | 2(0,4)                                 |
| Septic complication                                                                                                                                                                  | $\sigma(\vartheta,\vartheta)$             | 11 (0, 10)                                     | 2 (0, 4)                               |
| 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                                                                                                                                                                        | $\sigma(s,s)$                             | 12 (7, 10)                                     | 1 (0, 2)                               |
| Yes                                                                                                                                                                                  |                                           |                                                |                                        |
| No                                                                                                                                                                                   |                                           |                                                |                                        |
| Missing                                                                                                                                                                              | 5 (2, 8)                                  | 11 (6, 15)                                     | 1 (0, 2)                               |
| 9                                                                                                                                                                                    | 5 (2, 8)                                  | 11 (0, 15)                                     | 1 (0, 2)                               |
| Coagulopathy<br>Yes                                                                                                                                                                  |                                           |                                                |                                        |
| No                                                                                                                                                                                   |                                           |                                                |                                        |
| Missing                                                                                                                                                                              | 6 (3, 9)                                  | 12 (8, 17)                                     | 1 (0, 2)                               |
| Need for reexploration or resurgery                                                                                                                                                  | $\sigma(s,s)$                             | 12 (6, 17)                                     | 1 (0, 2)                               |
| Yes                                                                                                                                                                                  |                                           | 2.1 (0, 7.07)                                  |                                        |
| No                                                                                                                                                                                   |                                           | 98 (86, 98)                                    |                                        |
| Missing                                                                                                                                                                              | 4 (1, 7)                                  | 10 (5, 14)                                     | 1 (0, 2)                               |
| Failure of conservative management                                                                                                                                                   | 4 (1, 1)                                  | 10 (5, 14)                                     | 1 (0, 2)                               |
| No                                                                                                                                                                                   |                                           | 98 (85, 100)                                   |                                        |
| Yes                                                                                                                                                                                  |                                           | 2.2 (0, 7.59)                                  |                                        |
| ies<br>Missing                                                                                                                                                                       | 10 (5 14)                                 | 1.1                                            | 2 (0, 4)                               |
| EQ-5D mobility at discharge                                                                                                                                                          | 10 (5, 14)                                | 11 (6, 15)                                     | 2(0,4)                                 |
|                                                                                                                                                                                      | 67 (40, 82, 22)                           | 92 (71 90)                                     | 62 (40, 71,05)                         |
| have no problems in walking have some problems in walking                                                                                                                            | 67 (40, 82.32)<br>8.3 (0, 25)             | 83 (71, 89)<br>12 (4.8, 19)                    | 62 (49, 71.95)<br>18 (9.8, 27)         |
| 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                                                                                                                                                         | FO (26 OO)                                | 20 (60 27)                                     | EO (46 60)                             |
| have no problems with self-care                                                                                                                                                      | 58 (36, 80)                               | 80 (69, 87)                                    | 59 (46, 69)                            |
| have some problems bathing or dressing myself                                                                                                                                        | 17 (0, 38)                                | 12 (5.3, 20)                                   | 15 (6.78, 23)                          |
| 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  have no problems in performing my usual activities                                                                                              | 50 (25 67)                                | 76 (65 94)                                     | 54 (49, 66)                            |
|                                                                                                                                                                                      | 50 (25, 67)                               | 76 (65, 84)                                    | 54 (42, 66)                            |
| have some problems in performing my usual activities am unable to perform my usual activities                                                                                        |                                           | 15 (7.7, 24)                                   | 28 (17, 38)                            |
|                                                                                                                                                                                      | 25 (8.3, 44) 4 (1, 6)                     | 9.8 (4.7, 19)                                  | 18 (9.1, 28)                           |
|                                                                                                                                                                                      |                                           | 16 (10, 21)                                    | 2(0,4)                                 |
| Missing                                                                                                                                                                              | 4 (1, 0)                                  |                                                |                                        |
| $egin{aligned} 	ext{Missing} \ 	ext{EQ-5D pain/discomfort at discharge} \end{aligned}$                                                                                               |                                           | 94 (99, 40)                                    | 99 (99 49 74)                          |
| Missing EQ-5D pain/discomfort at discharge have no pain or discomfort                                                                                                                | 33 (13, 52.42)                            | 34 (23, 46)                                    | 33 (23, 43.74)                         |
| Missing EQ-5D pain/discomfort at discharge have no pain or discomfort have moderate pain or discomfort                                                                               |                                           | 63 (49, 72.39)                                 | 41 (28, 51)                            |
| Missing EQ-5D pain/discomfort at discharge have no pain or discomfort have moderate pain or discomfort have extreme pain or discomfort                                               | 33 (13, 52.42)<br>67 (40, 82)             | 63 (49, 72.39)<br>2.4 (0, 7.92)                | 41 (28, 51)<br>26 (16, 37)             |
| Missing EQ-5D pain/discomfort at discharge have no pain or discomfort have moderate pain or discomfort have extreme pain or discomfort Missing                                       | 33 (13, 52.42)                            | 63 (49, 72.39)                                 | 41 (28, 51)                            |
| Missing EQ-5D pain/discomfort at discharge have no pain or discomfort have moderate pain or discomfort have extreme pain or discomfort Missing EQ-5D anxiety/depression at discharge | 33 (13, 52.42)<br>67 (40, 82)<br>4 (1, 6) | 63 (49, 72.39)<br>2.4 (0, 7.92)<br>16 (10, 21) | 41 (28, 51)<br>26 (16, 37)<br>2 (0, 4) |
| Missing EQ-5D pain/discomfort at discharge have no pain or discomfort have moderate pain or discomfort have extreme pain or discomfort Missing                                       | 33 (13, 52.42)<br>67 (40, 82)             | 63 (49, 72.39)<br>2.4 (0, 7.92)                | 41 (28, 51)<br>26 (16, 37)             |

| 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 $\mathrm{arm}(85\%~\mathrm{CI})$

| No         96 (7           Missing         2           24 hour mortality         Yes           No         Missing           In-hospital mortality         3.3           Yes         3.5           No         96 (7           Missing         1           Self-ambulatory at discharge         4           Yes         8           No         42           Missing         42           Missing         9           Pulmonary complication         42           Yes         No           Missing         5           Septic complication         5           Yes         No           Missing         5           Renal failure         42           Yes         No           Missing         5           Coagulopathy         4           Yes         4           No         96 (           Missing         5           Ved for reexploration or resurgery         5           Yes         8           No         92 (           Yes         8           Missing         6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (0, 14)<br>9.76, 100)<br>(0, 4)<br>(0, 4)<br>(0, 13)<br>9.51, 100)<br>(0, 2)<br>(1, 6)<br>99, 72.77)<br>(26, 59)<br>(4, 13)<br>(2, 8) | 4.9 (1.6, 10)<br>95 (88, 98)<br>12 (7, 17)<br>8 (4, 12)<br>4.1 (1.3, 8.18)<br>96 (90, 98)<br>97 (90, 99)<br>2.9 (0, 7.2)<br>3 (1, 5)<br>70 (59, 77)<br>30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15) | 16 (11, 19)<br>84 (79, 88)<br>26 (19, 33)<br>7 (3, 11)<br>12 (7.59, 15)<br>88 (83, 90)<br>2 (0, 3)<br>99 (96, 99)<br>1.5 (0.7, 3.7)<br>24 (17, 30)<br>53 (44, 59)<br>47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)<br>32 (24, 39) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Yes         3.8           No         96 (7           Missing         2           24 hour mortality         2           Yes         No           Missing         2           In-hospital mortality         3.3           No         96 (7           Missing         1           Self-ambulatory at discharge         4           Yes         No           Missing         4           Return to work         42           Wissing         9           Pulmonary complication         42           Yes         No           Missing         5           Septic complication         5           Yes         No           Missing         5           Renal failure         4.3           Yes         4.3           No         96 (6           Missing         5           Coagulopathy         Yes           Yes         4.3           No         96 (6           Missing         5           No         96 (6           Missing         5           No         96 (7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (0, 4)<br>(0, 4)<br>(0, 13)<br>(0, 13)<br>(0, 13)<br>(0, 2)<br>(1, 6)<br>(29, 72.77)<br>(26, 59)<br>(4, 13)<br>(2, 8)                 | 95 (88, 98)<br>12 (7, 17)<br>8 (4, 12)<br>4.1 (1.3, 8.18)<br>96 (90, 98)<br>97 (90, 99)<br>2.9 (0, 7.2)<br>3 (1, 5)<br>70 (59, 77)<br>30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                  | 84 (79, 88)<br>26 (19, 33)<br>7 (3, 11)<br>12 (7.59, 15)<br>88 (83, 90)<br>2 (0, 3)<br>99 (96, 99)<br>1.5 (0.7, 3.7)<br>24 (17, 30)<br>53 (44, 59)<br>47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                               |
| Missing       2         24 hour mortality       2         Yes       No         Missing       2         In-hospital mortality       3.3         No       96 (7         Missing       1         Self-ambulatory at discharge       1         Yes       No         Missing       4         Return to work       42         Missing       9         Pulmonary complication       9         Yes       No         Missing       5         Septic complication       5         Yes       No         No       Missing         Renal failure       4.3         Yes       4.4         No       96 (7         Missing       5         Coagulopathy       4         Yes       4.5         No       96 (7         Missing       5         Vea (7       8         Missing       6         Failure of conservative management       6         No       92 (7         Yes       8         Missing       3         EQ-5D mobility at discharge </td <td>(0, 4)<br/>(0, 4)<br/>(0, 13)<br/>(0, 2)<br/>(1, 6)<br/>(1, 6)<br/>(2, 59)<br/>(4, 13)<br/>(2, 8)</td> <td>12 (7, 17)  8 (4, 12)  4.1 (1.3, 8.18) 96 (90, 98)  97 (90, 99) 2.9 (0, 7.2) 3 (1, 5)  70 (59, 77) 30 (21, 39) 16 (11, 21)  10 (6, 15)  3.2 (0, 8) 97 (91, 98) 10 (6, 15)</td> <td>26 (19, 33)  7 (3, 11)  12 (7.59, 15) 88 (83, 90) 2 (0, 3)  99 (96, 99) 1.5 (0.7, 3.7) 24 (17, 30)  53 (44, 59) 47 (39, 53) 56 (46, 65)  33 (24, 40)  0.8 (0, 2.4) 99 (96, 99) 33 (24, 40)</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (0, 4)<br>(0, 4)<br>(0, 13)<br>(0, 2)<br>(1, 6)<br>(1, 6)<br>(2, 59)<br>(4, 13)<br>(2, 8)                                             | 12 (7, 17)  8 (4, 12)  4.1 (1.3, 8.18) 96 (90, 98)  97 (90, 99) 2.9 (0, 7.2) 3 (1, 5)  70 (59, 77) 30 (21, 39) 16 (11, 21)  10 (6, 15)  3.2 (0, 8) 97 (91, 98) 10 (6, 15)                                                                  | 26 (19, 33)  7 (3, 11)  12 (7.59, 15) 88 (83, 90) 2 (0, 3)  99 (96, 99) 1.5 (0.7, 3.7) 24 (17, 30)  53 (44, 59) 47 (39, 53) 56 (46, 65)  33 (24, 40)  0.8 (0, 2.4) 99 (96, 99) 33 (24, 40)                                                                                  |
| ## A hour mortality Yes No Missing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (0, 4)<br>(0, 13)<br>9.51, 100)<br>(0, 2)<br>(1, 6)<br>39, 72.77)<br>(26, 59)<br>(4, 13)<br>(2, 8)                                    | 8 (4, 12)  4.1 (1.3, 8.18) 96 (90, 98)  97 (90, 99) 2.9 (0, 7.2) 3 (1, 5)  70 (59, 77) 30 (21, 39) 16 (11, 21)  10 (6, 15)  3.2 (0, 8) 97 (91, 98) 10 (6, 15)                                                                              | 7 (3, 11)  12 (7.59, 15) 88 (83, 90) 2 (0, 3)  99 (96, 99) 1.5 (0.7, 3.7) 24 (17, 30)  53 (44, 59) 47 (39, 53) 56 (46, 65)  33 (24, 40)  0.8 (0, 2.4) 99 (96, 99) 33 (24, 40)                                                                                               |
| Yes       No         Missing       2         In-hospital mortality       3.3         No       96 (7         Missing       1         Self-ambulatory at discharge       4         Yes       8         No       42         Missing       9         Pulmonary complication       9         Yes       8         No       8         Missing       5         Septic complication       5         Yes       8         No       Missing         Goagulopathy       5         Yes       4.3         No       96 (         Missing       5         No       96 (         Missing       5         Failure of conservation or resurgery       Yes         No       96 (         Missing       6         Failure of conservative management       6         No       92 (         Yes       8         No       92 (         Yes       8         No       92 (         Yes       8         No       92 (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (0, 13)<br>9.51, 100)<br>(0, 2)<br>(1, 6)<br>19, 72.77)<br>(26, 59)<br>(4, 13)<br>(2, 8)                                              | 4.1 (1.3, 8.18)<br>96 (90, 98)<br>97 (90, 99)<br>2.9 (0, 7.2)<br>3 (1, 5)<br>70 (59, 77)<br>30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                            | 12 (7.59, 15)<br>88 (83, 90)<br>2 (0, 3)<br>99 (96, 99)<br>1.5 (0.7, 3.7)<br>24 (17, 30)<br>53 (44, 59)<br>47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                          |
| No   Missing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (0, 13)<br>9.51, 100)<br>(0, 2)<br>(1, 6)<br>19, 72.77)<br>(26, 59)<br>(4, 13)<br>(2, 8)                                              | 4.1 (1.3, 8.18)<br>96 (90, 98)<br>97 (90, 99)<br>2.9 (0, 7.2)<br>3 (1, 5)<br>70 (59, 77)<br>30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                            | 12 (7.59, 15)<br>88 (83, 90)<br>2 (0, 3)<br>99 (96, 99)<br>1.5 (0.7, 3.7)<br>24 (17, 30)<br>53 (44, 59)<br>47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                          |
| Missing       2         In-hospital mortality       3.7         No       96 (7         Missing       1         Self-ambulatory at discharge       1         Yes       58 (1         No       42         Missing       9         Pulmonary complication       9         Yes       8         No       40         Missing       5         Septic complication       5         Yes       8         No       8         Missing       5         Renal failure       7         Yes       4.3         No       96 (1         Missing       5         Coagulopathy       7         Yes       4.3         No       96 (1         Missing       5         No       96 (1         Missing       6         Failure of conservative management       6         No       92 (2         Yes       8         Missing       89 (2         Failure of conservative management       80 (2         No       92 (2         Yes       8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (0, 13)<br>9.51, 100)<br>(0, 2)<br>(1, 6)<br>19, 72.77)<br>(26, 59)<br>(4, 13)<br>(2, 8)                                              | 4.1 (1.3, 8.18)<br>96 (90, 98)<br>97 (90, 99)<br>2.9 (0, 7.2)<br>3 (1, 5)<br>70 (59, 77)<br>30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                            | 12 (7.59, 15)<br>88 (83, 90)<br>2 (0, 3)<br>99 (96, 99)<br>1.5 (0.7, 3.7)<br>24 (17, 30)<br>53 (44, 59)<br>47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                          |
| In-hospital mortality                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (0, 13)<br>9.51, 100)<br>(0, 2)<br>(1, 6)<br>19, 72.77)<br>(26, 59)<br>(4, 13)<br>(2, 8)                                              | 4.1 (1.3, 8.18)<br>96 (90, 98)<br>97 (90, 99)<br>2.9 (0, 7.2)<br>3 (1, 5)<br>70 (59, 77)<br>30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                            | 12 (7.59, 15)<br>88 (83, 90)<br>2 (0, 3)<br>99 (96, 99)<br>1.5 (0.7, 3.7)<br>24 (17, 30)<br>53 (44, 59)<br>47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                          |
| Yes       3.7         No       96 (7         Missing       1         Self-ambulatory at discharge       1         Yes       8         No       42         Missing       9         Yes       58 (         No       42         Missing       9         Pulmonary complication       7         Yes       No         Missing       5         Septic complication       7         Yes       No         Missing       5         Renal failure       7         Yes       4.3         No       Missing         Teach       96 (         Missing       5         No       96 (         Missing       5         No       96 (         Missing       6         Failure of conservative management       92 (         No       92 (         Yes       8         Missing       89         I have no problems in walking       11         I am confined to bed       11         Missing       10         EQ-5D self-care at discharge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (1, 6)<br>(9, 72.77)<br>(26, 59)<br>(4, 13)<br>(2, 8)                                                                                 | 96 (90, 98)  97 (90, 99) 2.9 (0, 7.2) 3 (1, 5)  70 (59, 77) 30 (21, 39) 16 (11, 21)  10 (6, 15)  3.2 (0, 8) 97 (91, 98) 10 (6, 15)                                                                                                         | 88 (83, 90) 2 (0, 3)  99 (96, 99) 1.5 (0.7, 3.7) 24 (17, 30)  53 (44, 59) 47 (39, 53) 56 (46, 65)  33 (24, 40)  0.8 (0, 2.4) 99 (96, 99) 33 (24, 40)                                                                                                                        |
| No       96 (7         Missing       1         Self-ambulatory at discharge       1         Yes       No         Missing       4         Return to work       42         Yes       58 (6         No       42         Missing       9         Pulmonary complication       9         Yes       No         Mossing       5         Septic complication       5         Yes       8         No       Missing         Septic complication       5         Yes       8         No       Missing       5         Coagulopathy       Yes       4.3         No       96 (6       6         Missing       5       6         Need for reexploration or resurgery       Yes       8         No       Missing       6       6         Failure of conservative management       8       6         No       92 (       Yes       8         Missing       3       89       1         I have no problems in walking       11       11         I am unoffined to bed       4       6 <td>(1, 6)<br/>(9, 72.77)<br/>(26, 59)<br/>(4, 13)<br/>(2, 8)</td> <td>96 (90, 98)  97 (90, 99) 2.9 (0, 7.2) 3 (1, 5)  70 (59, 77) 30 (21, 39) 16 (11, 21)  10 (6, 15)  3.2 (0, 8) 97 (91, 98) 10 (6, 15)</td> <td>88 (83, 90) 2 (0, 3)  99 (96, 99) 1.5 (0.7, 3.7) 24 (17, 30)  53 (44, 59) 47 (39, 53) 56 (46, 65)  33 (24, 40)  0.8 (0, 2.4) 99 (96, 99) 33 (24, 40)</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (1, 6)<br>(9, 72.77)<br>(26, 59)<br>(4, 13)<br>(2, 8)                                                                                 | 96 (90, 98)  97 (90, 99) 2.9 (0, 7.2) 3 (1, 5)  70 (59, 77) 30 (21, 39) 16 (11, 21)  10 (6, 15)  3.2 (0, 8) 97 (91, 98) 10 (6, 15)                                                                                                         | 88 (83, 90) 2 (0, 3)  99 (96, 99) 1.5 (0.7, 3.7) 24 (17, 30)  53 (44, 59) 47 (39, 53) 56 (46, 65)  33 (24, 40)  0.8 (0, 2.4) 99 (96, 99) 33 (24, 40)                                                                                                                        |
| Missing       1         Self-ambulatory at discharge       Yes         No       Missing       4         Return to work       42         Yes       58 (         No       42         Missing       9         Pulmonary complication       5         Yes       No         Missing       5         Septic complication       5         Yes       No         Missing       5         Renal failure       4         Yes       8         No       96 (         Missing       5         Coagulopathy       7         Yes       4.3         No       96 (         Missing       5         Need for reexploration or resurgery       7         Yes       No         Missing       6         Failure of conservative management       8         No       92 (         Yes       8         Missing       8         EQ-5D mobility at discharge       1         I have no problems in walking       1         I am confined to bed       10         Missing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (1, 6)<br>(1, 6)<br>(29, 72.77)<br>(26, 59)<br>(4, 13)<br>(2, 8)                                                                      | 97 (90, 99) 2.9 (0, 7.2) 3 (1, 5)  70 (59, 77) 30 (21, 39) 16 (11, 21)  10 (6, 15)  3.2 (0, 8) 97 (91, 98) 10 (6, 15)                                                                                                                      | 2 (0, 3)<br>99 (96, 99)<br>1.5 (0.7, 3.7)<br>24 (17, 30)<br>53 (44, 59)<br>47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                                                          |
| Self-ambulatory at discharge       Yes         No       4         Missing       4         Return to work       42         Missing       9         Pulmonary complication       9         Yes       No         Missing       5         Septic complication       Yes         No       Missing         Renal failure       Yes         Yes       No         Missing       5         Coagulopathy       4         Yes       4.3         No       96 (         Missing       5         No dissing       5         No dissing       6         Failure of conservation or resurgery       Yes         No       92 (         Yes       8         Missing       6         Failure of conservative management       8         No       92 (         Yes       8         Missing       3         EQ-5D mobility at discharge       1         I have no problems in walking       11         I am confined to bed       4         Missing       10         EQ-5D self-care at                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (1, 6)<br>99, 72.77)<br>(26, 59)<br>(4, 13)<br>(2, 8)                                                                                 | 2.9 (0, 7.2)<br>3 (1, 5)<br>70 (59, 77)<br>30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                             | 99 (96, 99)<br>1.5 (0.7, 3.7)<br>24 (17, 30)<br>53 (44, 59)<br>47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                                                                      |
| Yes       No         Missing       4         Return to work       42         Yes       58 (         No       42         Missing       9         Pulmonary complication       9         Yes       No         Missing       5         Septic complication       5         Yes       No         Missing       5         Renal failure       4.3         Yes       4.5         No       96 (         Missing       5         Need for reexploration or resurgery       Yes         Yes       8         No       96 (         Missing       6         Failure of conservative management       8         No       92 (         Yes       8         Missing       3         EQ-5D mobility at discharge       1         I have no problems in walking       11         I am confined to bed       4         Missing       10         EQ-5D self-care at discharge       6         I have some problems bathing or dressing myself       11         I am unable to bathe or dress myself       22 </td <td>(26, 59)<br/>(4, 13)<br/>(28, 8)</td> <td>2.9 (0, 7.2)<br/>3 (1, 5)<br/>70 (59, 77)<br/>30 (21, 39)<br/>16 (11, 21)<br/>10 (6, 15)<br/>3.2 (0, 8)<br/>97 (91, 98)<br/>10 (6, 15)</td> <td>1.5 (0.7, 3.7)<br/>24 (17, 30)<br/>53 (44, 59)<br/>47 (39, 53)<br/>56 (46, 65)<br/>33 (24, 40)<br/>0.8 (0, 2.4)<br/>99 (96, 99)<br/>33 (24, 40)</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (26, 59)<br>(4, 13)<br>(28, 8)                                                                                                        | 2.9 (0, 7.2)<br>3 (1, 5)<br>70 (59, 77)<br>30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                             | 1.5 (0.7, 3.7)<br>24 (17, 30)<br>53 (44, 59)<br>47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                                                                                     |
| No       Missing       4         Return to work       38 ()         Yes       58 ()         No       42         Missing       9         Pulmonary complication       7         Yes       No         Missing       5         Septic complication       5         Yes       8         No       Missing       5         Renal failure       7         Yes       4.3         No       96 ()         Missing       5         No       96 ()         Missing       6         Pailure of conservation or resurgery       7         Yes       8         No       92 ()         Missing       6         Failure of conservative management       8         No       92 ()         Yes       8         Missing       3         EQ-5D mobility at discharge       1         I have no problems in walking       11         I am confined to bed       4         Missing       10         EQ-5D self-care at discharge       1         I have some problems bathing or dressi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (26, 59)<br>(4, 13)<br>(28, 8)                                                                                                        | 2.9 (0, 7.2)<br>3 (1, 5)<br>70 (59, 77)<br>30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                             | 1.5 (0.7, 3.7)<br>24 (17, 30)<br>53 (44, 59)<br>47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                                                                                     |
| Missing       4         Return to work       58 (         Yes       58 (         No       42         Missing       9         Pulmonary complication       9         Yes       No         Missing       5         Septic complication       5         Yes       No         Missing       5         Renal failure       5         Yes       4.3         No       96 (         Missing       5         Need for reexploration or resurgery       7         Yes       8         No       96 (         Missing       6         Failure of conservative management       8         No       92 (         Yes       8         Missing       8         EQ-5D mobility at discharge       1         I have some problems in walking       89         I have some problems in walking       10         EQ-5D self-care at discharge       1         I have no problems with self-care       67         I have some problems bathing or dressing myself       11         I am unable to bathe or dress myself       22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (26, 59)<br>(4, 13)<br>(28, 8)                                                                                                        | 3 (1, 5)  70 (59, 77) 30 (21, 39) 16 (11, 21)  10 (6, 15)  3.2 (0, 8) 97 (91, 98) 10 (6, 15)                                                                                                                                               | 24 (17, 30) 53 (44, 59) 47 (39, 53) 56 (46, 65)  33 (24, 40) 0.8 (0, 2.4) 99 (96, 99) 33 (24, 40)                                                                                                                                                                           |
| Return to work         58 (           Yes         58 (           No         42           Missing         9           Pulmonary complication         9           Yes         No           Missing         5           Septic complication         5           Yes         No           Missing         5           Renal failure         5           Yes         No           Missing         5           Coagulopathy         5           Yes         4.3           No         96 (           Missing         5           Need for reexploration or resurgery         7           Yes         8           No         96 (           Missing         6           Failure of conservative management         6           No         92 (           Yes         8           Missing         3           EQ-5D mobility at discharge         1           I have some problems in walking         89           I have some problems in walking         10           EQ-5D self-care at discharge         1           I have no problems with self-car                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (26, 59)<br>(4, 13)<br>(28, 8)                                                                                                        | 70 (59, 77)<br>30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                                                         | 53 (44, 59)<br>47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                                                                                                                      |
| Yes       58 ()         No       42         Missing       9         Pulmonary complication       5         Yes       8         No       Missing       5         Septic complication       5         Yes       No       Missing       5         Renal failure       Yes       4.3         No       Missing       5         Coagulopathy       Yes       4.3         No       96 ()       96 ()         Missing       5       5         Need for reexploration or resurgery       Yes       8         No       96 ()       92 ()         Missing       6       6         Failure of conservative management       8       8         No       92 ()       92 ()         Yes       8       8       3         EQ-5D mobility at discharge       1       1         I have no problems in walking       10       1         I have no problems with self-care       67       1         I have no problems bathing or dressing myself       11       1         I am unable to bathe or dress myself       22         Missing <td>(26, 59)<br/>(4, 13)<br/>(2, 8)</td> <td>30 (21, 39)<br/>16 (11, 21)<br/>10 (6, 15)<br/>3.2 (0, 8)<br/>97 (91, 98)<br/>10 (6, 15)</td> <td>47 (39, 53)<br/>56 (46, 65)<br/>33 (24, 40)<br/>0.8 (0, 2.4)<br/>99 (96, 99)<br/>33 (24, 40)</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (26, 59)<br>(4, 13)<br>(2, 8)                                                                                                         | 30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                                                                        | 47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                                                                                                                                     |
| No       42         Missing       9         Pulmonary complication       9         Yes       10         Missing       5         Septic complication       5         Yes       10         No       Missing       5         Renal failure       5         Yes       10         No       96       10         Missing       5         No       96       10         Missing       5         No       96       10         Missing       6       10         Failure of conservative management       10       10         No       92       10         Yes       8       8         Missing       3       10         EQ-5D mobility at discharge       1       1         I have no problems in walking       11       1         I am confined to bed       10       10         Missing       10       10         EQ-5D self-care at discharge       1       1         I have some problems bathing or dressing myself       11       1         I am unable to bathe or dress myself       22 <td>(26, 59)<br/>(4, 13)<br/>(2, 8)</td> <td>30 (21, 39)<br/>16 (11, 21)<br/>10 (6, 15)<br/>3.2 (0, 8)<br/>97 (91, 98)<br/>10 (6, 15)</td> <td>47 (39, 53)<br/>56 (46, 65)<br/>33 (24, 40)<br/>0.8 (0, 2.4)<br/>99 (96, 99)<br/>33 (24, 40)</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (26, 59)<br>(4, 13)<br>(2, 8)                                                                                                         | 30 (21, 39)<br>16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                                                                        | 47 (39, 53)<br>56 (46, 65)<br>33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                                                                                                                                     |
| Missing       9         Pulmonary complication       Yes         No       Missing       5         Septic complication       Yes         No       Missing       5         Renal failure       Yes       No         Missing       5         Coagulopathy       Yes       4.3         No       96 (i       Missing       5         Need for reexploration or resurgery       Yes       7       8         No       Missing       6       6         Failure of conservative management       80       92 (i       92 (i         No       92 (i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (2, 8)                                                                                                                                | 16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                                                                                       | 56 (46, 65)  33 (24, 40)  0.8 (0, 2.4) 99 (96, 99) 33 (24, 40)                                                                                                                                                                                                              |
| Pulmonary complication         Yes           No         Missing         5           Septic complication         Yes           Yes         No           Missing         5           Renal failure         Yes           Yes         No           Missing         5           Coagulopathy         Yes           Yes         4.3           No         96 (           Missing         5           Need for reexploration or resurgery         Yes           No         96 (           Missing         6           Failure of conservative management         80           No         92 (           Yes         8           Missing         3           EQ-5D mobility at discharge         3           I have no problems in walking         11           I am confined to bed         3           Missing         10           EQ-5D self-care at discharge         1           I have no problems with self-care         67           I have some problems bathing or dressing myself         11           I am unable to bathe or dress myself         22           Missing         10 <td>(2, 8)</td> <td>16 (11, 21)<br/>10 (6, 15)<br/>3.2 (0, 8)<br/>97 (91, 98)<br/>10 (6, 15)</td> <td>56 (46, 65)  33 (24, 40)  0.8 (0, 2.4) 99 (96, 99) 33 (24, 40)</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (2, 8)                                                                                                                                | 16 (11, 21)<br>10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                                                                                       | 56 (46, 65)  33 (24, 40)  0.8 (0, 2.4) 99 (96, 99) 33 (24, 40)                                                                                                                                                                                                              |
| Pulmonary complication         Yes           No         Missing         5           Septic complication         Yes           Yes         No           Missing         5           Renal failure         Yes           Yes         No           Missing         5           Coagulopathy         Yes           Yes         4.3           No         96 (           Missing         5           Need for reexploration or resurgery         Yes           No         96 (           Missing         6           Failure of conservative management         No           No         92 (           Yes         8           Missing         3           EQ-5D mobility at discharge         3           I have no problems in walking         11           I am confined to bed         3           Missing         10           EQ-5D self-care at discharge         1           I have no problems with self-care         67           I have some problems bathing or dressing myself         11           I am unable to bathe or dress myself         22           Missing         10 <td>(2, 8)</td> <td>10 (6, 15)<br/>3.2 (0, 8)<br/>97 (91, 98)<br/>10 (6, 15)</td> <td>33 (24, 40)<br/>0.8 (0, 2.4)<br/>99 (96, 99)<br/>33 (24, 40)</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (2, 8)                                                                                                                                | 10 (6, 15)<br>3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                                                                                                      | 33 (24, 40)<br>0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                                                                                                                                                                   |
| Yes       No         Missing       5         Septic complication       5         Yes       No         Missing       5         Renal failure       5         Yes       4.3         No       Missing         Yes       4.5         No       96 (         Missing       5         Need for reexploration or resurgery       7         Yes       No         Missing       6         Failure of conservative management       8         No       92 (         Yes       8         Missing       3         EQ-5D mobility at discharge       3         I have no problems in walking       11         I am confined to bed       3         Missing       10         EQ-5D self-care at discharge       1         I have no problems with self-care       67         I have some problems bathing or dressing myself       11         I am unable to bathe or dress myself       22         Missing       10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ,                                                                                                                                     | 3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                                                                                                                    | 0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                                                                                                                                                                                  |
| Missing       5         Septic complication       Yes         No       Missing       5         Renal failure       Yes         No       Missing       5         Coagulopathy       Yes       4.3         No       96 (         Missing       5         Need for reexploration or resurgery       Yes         No       Missing       6         Failure of conservative management       8         No       92 (         Yes       8         Missing       3         EQ-5D mobility at discharge       8         I have no problems in walking       89         I have some problems in walking       11         I am confined to bed       10         Missing       10         EQ-5D self-care at discharge       1         I have no problems with self-care       67         I have some problems bathing or dressing myself       11         I am unable to bathe or dress myself       22         Missing       10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ,                                                                                                                                     | 3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                                                                                                                    | 0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                                                                                                                                                                                  |
| Septic complication         Yes           No         Missing         5           Renal failure         Yes         Yes           No         Missing         5           Coagulopathy         Yes         4.3           No         96 (         96 (           Missing         5         5           Need for reexploration or resurgery         Yes         8           No         Missing         6           Failure of conservative management         8         92 (           Yes         8         8           Missing         3         8         92 (           Yes         8         8         3           EQ-5D mobility at discharge         1         1         1         1           I have no problems in walking         89         1         1         1           EQ-5D mobility at discharge         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td> ,</td> <td>3.2 (0, 8)<br/>97 (91, 98)<br/>10 (6, 15)</td> <td>0.8 (0, 2.4)<br/>99 (96, 99)<br/>33 (24, 40)</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ,                                                                                                                                     | 3.2 (0, 8)<br>97 (91, 98)<br>10 (6, 15)                                                                                                                                                                                                    | 0.8 (0, 2.4)<br>99 (96, 99)<br>33 (24, 40)                                                                                                                                                                                                                                  |
| Yes       No         Missing       5         Renal failure       Yes         Yes       No         Missing       5         Coagulopathy       Yes         Yes       4.3         No       96 (         Missing       5         Need for reexploration or resurgery       Yes         No       Missing         Failure of conservative management       92 (         Yes       8         Missing       3         EQ-5D mobility at discharge       8         I have no problems in walking       89         I have some problems in walking       11         I am confined to bed       10         Missing       10         EQ-5D self-care at discharge       1         I have no problems with self-care       67         I have some problems bathing or dressing myself       11         I am unable to bathe or dress myself       22         Missing       10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (2, 8)                                                                                                                                | 97 (91, 98)<br>10 (6, 15)                                                                                                                                                                                                                  | 99 (96, 99)<br>33 (24, 40)                                                                                                                                                                                                                                                  |
| No         Missing         5           Renal failure         Yes           No         Missing         5           Coagulopathy         Yes         4.3           No         96 (         96 (           Missing         5         5           Need for reexploration or resurgery         Yes         8           No         Missing         6           Failure of conservative management         8           No         92 (         Yes           Missing         3         8           EQ-5D mobility at discharge         8         8           I have no problems in walking         89         1           I am confined to bed         3         89         1           Missing         10         10         10           EQ-5D self-care at discharge         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (2, 8)                                                                                                                                | 97 (91, 98)<br>10 (6, 15)                                                                                                                                                                                                                  | 99 (96, 99)<br>33 (24, 40)                                                                                                                                                                                                                                                  |
| Missing       5         Renal failure       Yes         No       Missing       5         Coagulopathy       4.3         Yes       4.3         No       96 (         Missing       5         Need for reexploration or resurgery       Yes         No       Missing         Failure of conservative management       6         Yes       8         Missing       3         EQ-5D mobility at discharge       3         I have no problems in walking       89         I have some problems in walking       11         I am confined to bed       3         Missing       10         EQ-5D self-care at discharge       67         I have no problems with self-care       67         I have some problems bathing or dressing myself       11         I am unable to bathe or dress myself       22         Missing       10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (2, 8)                                                                                                                                | 10 (6, 15)                                                                                                                                                                                                                                 | 33 (24, 40)                                                                                                                                                                                                                                                                 |
| Renal failure         Yes           No         Missing         5           Coagulopathy         4.3         5           Yes         4.5         8         6         6           Missing         5         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         6         7         8         8         6         7         8         8         1         8         9         1         8         9         1         8         9         1         8         9         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 </td <td>(2, 8)</td> <td>,</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (2, 8)                                                                                                                                | ,                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                             |
| Yes       No         Missing       5         Coagulopathy       4.3         Yes       4.5         No       96 (continue)         Missing       5         Need for reexploration or resurgery         Yes       No         Missing       6         Failure of conservative management       92 (conservative)         No       92 (conservative)         Yes       8         Missing       3         EQ-5D mobility at discharge       1         I have no problems in walking       89         I have some problems in walking       11         I am confined to bed       10         Missing       10         EQ-5D self-care at discharge       1         I have no problems with self-care       67         I have some problems bathing or dressing myself       11         I am unable to bathe or dress myself       22         Missing       10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                       | 10 (6, 15)                                                                                                                                                                                                                                 | 32 (24, 39)                                                                                                                                                                                                                                                                 |
| No         Missing         5           Coagulopathy         4.3           Yes         4.3           No         96 (           Missing         5           Need for reexploration or resurgery         Yes           No         Missing           Failure of conservative management         8           No         92 (           Yes         8           Missing         3           EQ-5D mobility at discharge         1           I have no problems in walking         89           I have some problems in walking         11           I am confined to bed         3           Missing         10           EQ-5D self-care at discharge         67           I have no problems with self-care         67           I have some problems bathing or dressing myself         11           I am unable to bathe or dress myself         22           Missing         10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                       | 10 (6, 15)                                                                                                                                                                                                                                 | 32 (24, 39)                                                                                                                                                                                                                                                                 |
| Missing       5         Coagulopathy       4.3         Yes       4.3         No       96 (         Missing       5         Need for reexploration or resurgery       Yes         No       Missing         Failure of conservative management       92 (         Yes       8         Missing       3         EQ-5D mobility at discharge       89         I have no problems in walking       89         I have some problems in walking       11         I am confined to bed       3         Missing       10         EQ-5D self-care at discharge       1         I have no problems with self-care       67         I have some problems bathing or dressing myself       11         I am unable to bathe or dress myself       22         Missing       10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                       | 10 (6, 15)                                                                                                                                                                                                                                 | 32 (24, 39)                                                                                                                                                                                                                                                                 |
| Coagulopathy       4.3         No       96 (         Missing       5         Need for reexploration or resurgery       Yes         No       Missing       6         Failure of conservative management       92 (         Yes       8         Missing       3         EQ-5D mobility at discharge       8         I have no problems in walking       89         I have some problems in walking       11         I am confined to bed       3         Missing       10         EQ-5D self-care at discharge       67         I have no problems with self-care       67         I have some problems bathing or dressing myself       11         I am unable to bathe or dress myself       22         Missing       10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                       | 10 (6, 15)                                                                                                                                                                                                                                 | 32 (24, 39)                                                                                                                                                                                                                                                                 |
| Coagulopathy       4.3         No       96 (         Missing       5         Need for reexploration or resurgery       Yes         No       Missing       6         Failure of conservative management       92 (         Yes       8         Missing       3         EQ-5D mobility at discharge       8         I have no problems in walking       89         I have some problems in walking       11         I am confined to bed       3         Missing       10         EQ-5D self-care at discharge       67         I have no problems with self-care       67         I have some problems bathing or dressing myself       11         I am unable to bathe or dress myself       22         Missing       10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (2, 8)                                                                                                                                | . , ,                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                             |
| Yes       4.3         No       96 (         Missing       5         Need for reexploration or resurgery         Yes       8         No       92 (         Failure of conservative management       8         No       92 (         Yes       8         Missing       3         EQ-5D mobility at discharge       8         I have no problems in walking       89         I have some problems in walking       11         I am confined to bed       3         Missing       10         EQ-5D self-care at discharge       67         I have no problems with self-care       67         I have some problems bathing or dressing myself       11         I am unable to bathe or dress myself       22         Missing       10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | , ,                                                                                                                                   |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                             |
| Missing  Need for reexploration or resurgery Yes No Missing 66 Failure of conservative management No Yes 8 Missing 692 ( Yes 8 Missing 692 ( Yes 8 Missing 693 EQ-5D mobility at discharge I have no problems in walking I am confined to bed Missing 10 EQ-5D self-care at discharge I have no problems with self-care I have no problems with self-care I have no problems with self-care I have some problems bathing or dressing myself I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (0, 15)                                                                                                                               |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                             |
| Need for reexploration or resurgery Yes No Missing Failure of conservative management No Yes Missing Fay Missing  EQ-5D mobility at discharge I have no problems in walking I am confined to bed Missing  EQ-5D self-care at discharge I have no problems with self-care I have some problems bathing or dressing myself I am unable to bathe or dress myself 22 Missing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 33.9, 100)                                                                                                                            |                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                             |
| Need for reexploration or resurgery Yes No Missing Failure of conservative management No Yes Missing Fay Missing  EQ-5D mobility at discharge I have no problems in walking I am confined to bed Missing  EQ-5D self-care at discharge I have no problems with self-care I have some problems bathing or dressing myself I am unable to bathe or dress myself 22 Missing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (2, 8)                                                                                                                                | 10 (6, 15)                                                                                                                                                                                                                                 | 32 (24, 39)                                                                                                                                                                                                                                                                 |
| Yes No Missing Failure of conservative management No Ses Missing Fast Ses |                                                                                                                                       | ,                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                             |
| Missing Failure of conservative management No 92 ( Yes 8 Missing 3 EQ-5D mobility at discharge I have no problems in walking 89 I have some problems in walking 11 I am confined to bed Missing 10 EQ-5D self-care at discharge I have no problems with self-care 67 I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                       | 1.6(0, 5.2)                                                                                                                                                                                                                                | 2.5 (0.8, 5.3)                                                                                                                                                                                                                                                              |
| Failure of conservative management  No 92 ( Yes 8 Missing 3  EQ-5D mobility at discharge  I have no problems in walking 89 I have some problems in walking 11 I am confined to bed Missing 10  EQ-5D self-care at discharge  I have no problems with self-care 67 I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                       | 98 (90, 99)                                                                                                                                                                                                                                | 97 (92, 98)                                                                                                                                                                                                                                                                 |
| Failure of conservative management  No 92 ( Yes 8  Missing 3  EQ-5D mobility at discharge  I have no problems in walking 89 I have some problems in walking 11 I am confined to bed  Missing 10  EQ-5D self-care at discharge  I have no problems with self-care 67 I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22  Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (3, 9)                                                                                                                                | 10 (6, 15)                                                                                                                                                                                                                                 | 42 (33, 50)                                                                                                                                                                                                                                                                 |
| No         92 (           Yes         8           Missing         3           EQ-5D mobility at discharge         8           I have no problems in walking         89           I have some problems in walking         11           I am confined to bed         3           Missing         10           EQ-5D self-care at discharge         1           I have no problems with self-care         67           I have some problems bathing or dressing myself         11           I am unable to bathe or dress myself         22           Missing         10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | , ,                                                                                                                                   | ( , ,                                                                                                                                                                                                                                      | , ,                                                                                                                                                                                                                                                                         |
| Yes 8 Missing 3  EQ-5D mobility at discharge I have no problems in walking 89 I have some problems in walking 11 I am confined to bed Missing 10  EQ-5D self-care at discharge I have no problems with self-care 67 I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | '8, 96.05)                                                                                                                            | 98 (90, 99)                                                                                                                                                                                                                                | 98 (93, 98)                                                                                                                                                                                                                                                                 |
| Missing 3  EQ-5D mobility at discharge I have no problems in walking 89 I have some problems in walking 11 I am confined to bed Missing 10  EQ-5D self-care at discharge I have no problems with self-care 67 I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (0, 20)                                                                                                                               | 1.6 (0, 4.7)                                                                                                                                                                                                                               | $1.\overrightarrow{7}(0,4)$                                                                                                                                                                                                                                                 |
| EQ-5D mobility at discharge  I have no problems in walking 89 I have some problems in walking 11 I am confined to bed Missing 10 EQ-5D self-care at discharge I have no problems with self-care 67 I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (0, 5)                                                                                                                                | 12 (7, 17)                                                                                                                                                                                                                                 | 44 (34, 52)                                                                                                                                                                                                                                                                 |
| I have no problems in walking 89 I have some problems in walking 11 I am confined to bed Missing 10 EQ-5D self-care at discharge I have no problems with self-care 67 I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (-, -,                                                                                                                                | (-, -,                                                                                                                                                                                                                                     | (- , - ,                                                                                                                                                                                                                                                                    |
| I have some problems in walking I am confined to bed Missing  EQ-5D self-care at discharge I have no problems with self-care I have some problems bathing or dressing myself I am unable to bathe or dress myself Missing  10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (71, 96)                                                                                                                              | 92 (84, 96)                                                                                                                                                                                                                                | 62 (55, 68)                                                                                                                                                                                                                                                                 |
| I am confined to bed Missing 10  EQ-5D self-care at discharge I have no problems with self-care 67 I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (0, 25)                                                                                                                               | 5 (1.8, 11)                                                                                                                                                                                                                                | 19 (14, 25)                                                                                                                                                                                                                                                                 |
| Missing 10  EQ-5D self-care at discharge I have no problems with self-care 67 I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                       | 3.3(0, 8.45)                                                                                                                                                                                                                               | 19 (13, 23)                                                                                                                                                                                                                                                                 |
| EQ-5D self-care at discharge I have no problems with self-care 67 I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (6, 14)                                                                                                                               | 13 (8, 18)                                                                                                                                                                                                                                 | 43 (33, 51)                                                                                                                                                                                                                                                                 |
| I have no problems with self-care 67 I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (-)                                                                                                                                   | - (-)                                                                                                                                                                                                                                      | - (, - )                                                                                                                                                                                                                                                                    |
| I have some problems bathing or dressing myself 11 I am unable to bathe or dress myself 22 Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                       | 85 (76, 90)                                                                                                                                                                                                                                | 50 (42.8, 55)                                                                                                                                                                                                                                                               |
| I am unable to bathe or dress myself 22<br>Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (45, 80)                                                                                                                              | 8.3 (3.93, 14.78)                                                                                                                                                                                                                          | 31 (24.46, 36.9)                                                                                                                                                                                                                                                            |
| Missing 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | (45, 80)<br>(0, 25)                                                                                                                   | 6.7 (2.9, 13)                                                                                                                                                                                                                              | 19 (12, 23)                                                                                                                                                                                                                                                                 |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (0, 25)                                                                                                                               | 13 (8, 18)                                                                                                                                                                                                                                 | 43 (33, 51)                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0, 25)<br>(7.7, 38)                                                                                                                  | (-) -)                                                                                                                                                                                                                                     | - (, ~-)                                                                                                                                                                                                                                                                    |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (0, 25)                                                                                                                               | 05 (50 00)                                                                                                                                                                                                                                 | 47 (40, 53)                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0, 25)<br>(7.7, 38)<br>(6, 14)                                                                                                       | 85 (76, 90)                                                                                                                                                                                                                                | 38 (31, 43)                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0, 25)<br>(7.7, 38)<br>(6, 14)<br>(2, 75.89)                                                                                         | 85 (76, 90)<br>8.3 (3.93, 14.78)                                                                                                                                                                                                           | 15 (9.53, 19)                                                                                                                                                                                                                                                               |
| ž V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (0, 25)<br>(7.7, 38)<br>(6, 14)<br>(2, 75.89)<br>(7.7, 40)                                                                            | 8.3 (3.93, 14.78)                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                             |
| EQ-5D pain/discomfort at discharge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (0, 25)<br>(7.7, 38)<br>(6, 14)<br>(2, 75.89)<br>(7.7, 40)<br>(5.6, 33)                                                               | 8.3 (3.93, 14.78)<br>6.7 (2.9, 13)                                                                                                                                                                                                         | 43 (33, 51)                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0, 25)<br>(7.7, 38)<br>(6, 14)<br>(2, 75.89)<br>(7.7, 40)                                                                            | 8.3 (3.93, 14.78)                                                                                                                                                                                                                          | 43 (33, 51)                                                                                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0, 25)<br>(7.7, 38)<br>(6, 14)<br>(2, 75.89)<br>(7.7, 40)<br>(5.6, 33)<br>(6, 14)                                                    | 8.3 (3.93, 14.78)<br>6.7 (2.9, 13)<br>13 (8, 18)                                                                                                                                                                                           |                                                                                                                                                                                                                                                                             |
| I have inoderate pain of discomfort  I have extreme pain or discomfort                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (0, 25)<br>(7.7, 38)<br>(6, 14)<br>(2, 75.89)<br>(7.7, 40)<br>(5.6, 33)<br>(6, 14)<br>(31, 67)                                        | 8.3 (3.93, 14.78)<br>6.7 (2.9, 13)<br>13 (8, 18)<br>65 (54.36, 73)                                                                                                                                                                         | 25 (18.03, 30)                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0, 25)<br>(7.7, 38)<br>(6, 14)<br>(2, 75.89)<br>(7.7, 40)<br>(5.6, 33)<br>(6, 14)                                                    | 8.3 (3.93, 14.78)<br>6.7 (2.9, 13)<br>13 (8, 18)<br>65 (54.36, 73)<br>30 (21, 38)                                                                                                                                                          | 25 (18.03, 30)<br>35 (29, 41)                                                                                                                                                                                                                                               |
| EQ-5D anxiety/depression at discharge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (0, 25)<br>(7.7, 38)<br>(6, 14)<br>(22, 75.89)<br>(7.7, 40)<br>(5.6, 33)<br>(6, 14)<br>(31, 67)<br>(29, 64)                           | 8.3 (3.93, 14.78)<br>6.7 (2.9, 13)<br>13 (8, 18)<br>65 (54.36, 73)<br>30 (21, 38)<br>5 (1.8, 11)                                                                                                                                           | 25 (18.03, 30)<br>35 (29, 41)<br>40 (33, 46)                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (0, 25)<br>(7.7, 38)<br>(6, 14)<br>(2, 75.89)<br>(7.7, 40)<br>(5.6, 33)<br>(6, 14)<br>(31, 67)                                        | 8.3 (3.93, 14.78)<br>6.7 (2.9, 13)<br>13 (8, 18)<br>65 (54.36, 73)<br>30 (21, 38)                                                                                                                                                          | 25 (18.03, 30)<br>35 (29, 41)                                                                                                                                                                                                                                               |
| I am not anxious or depressed 83<br>I am moderately anxious or depressed 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (0, 25)<br>(7.7, 38)<br>(6, 14)<br>(22, 75.89)<br>(7.7, 40)<br>(5.6, 33)<br>(6, 14)<br>(31, 67)<br>(29, 64)                           | 8.3 (3.93, 14.78)<br>6.7 (2.9, 13)<br>13 (8, 18)<br>65 (54.36, 73)<br>30 (21, 38)<br>5 (1.8, 11)                                                                                                                                           | 25 (18.03, 30)<br>35 (29, 41)<br>40 (33, 46)                                                                                                                                                                                                                                |

| 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                    | (,)            | 0.2 (0, 0.0)     | 1 (0, 3)          |
| Missing                                                | 8 (4, 12)      | 15 (10, 20)      | 59 (49, 68)       |
| Patient satisfaction                                   | - (-,)         | (,)              | 33 (23, 33)       |
| 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)    | o (2, 11)        | 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             | 4 (1, 0)       | 5 (1, 5)         | 25 (10, 20)       |
| 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)    | 10 (10, 20)      | 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)      |
|                                                        | 21 (14, 21)    | 21 (14.1, 21)    | 30 (10, 101)      |

## Absolute change from baseline for all outcomes, comparing the period after training with the period before training, by treatment arms(85%~CI)

| 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                                                         | 0 (0 00)           | 1 ( 5 5 05)        | 4 ( 1 . 11)              |
| 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                                                                       | 27 ( 72 2)         | 4 ( 40, 0)         | 10 ( 1 05)               |
| 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                                                          | . ( -1, 0)         | - ( 0, 1)          | 12 (02, 00)              |
| 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                                                         | 0 (0, 10)          | -5 (-11, 4)        | 41 (61, 45)              |
| I have no problems with self-care                                                    | 9 (-21, 37)        | 5 (-6, 16)         | -9 (-22, 3)              |
| I have no problems with sen-care I have some problems bathing or dressing myself     |                    | * ' '              | ` ' '                    |
| I have some problems bathing or dressing myself I am unable to bathe or dress myself | -6 (-28.98, 10.92) | -3.7 (-12.74, 4.9) | 16 (5, 26.3)             |
|                                                                                      | -3 (-30, 18)       | -0.6 (-8, 7.5)     | -7 (-21.28, 2)           |
| Missing  FO 5D usual activities at discharge                                         | 6(0, 10)           | -3 (-11, 4)        | 41 (31, 49)              |
| EQ-5D usual activities at discharge                                                  | 11 / 01 - 90\      | 0 ( 4 00)          | 7 ( 01 4)                |
| 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                                                   | 4= /               | 04 (44)            | - /                      |
| 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)                 |
|                                                                                      | 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                    | -55 (-57.05, -0)     | -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                     | 0 (0, 10)            | 0 (11, 1)             | 11 (01, 10)             |
| 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                    | 2 ( 3, 3)            | 1 (1,0)               | 10 (01, 00)             |
| 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             | _ ( 3, 3)            | - ( · , • )           | (,)                     |
| 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 $arms(85\%\ CI)$

| 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                                                    |                         |                         | 1 00 (1 1 07)            |
| No                                                     | 4 (0, 0)                | 4 0 (0 = 4 44)          | 1.02 (1, 1.05)           |
| Missing                                                | 1(0, 3)                 | 1.6 (0.7, 4.44)         |                          |
| In-hospital mortality                                  |                         | 0.50 (0.15, 1.05)       | 2.45 (1.01.5.42)         |
| Yes                                                    | 0.00 (0.0.1)            | 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                           | 1.00 (1.1.00)           | 1.01 (0.06 1.07)        | 1.04 (0.00, 1.12)        |
| Yes<br>N-                                              | 1.09 (1, 1.28)          | 1.01 (0.96, 1.07)       | 1.04 (0.99, 1.12)        |
| No<br>Mississes                                        | 1 (0.9. 9)              | 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                                         | 0.7 (0.40, 1.11)        | 0.05 (0.70 1.19)        | 1 20 (0 05 1 20)         |
| 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                                                    |                         | 1.00 (1.1.01)           |                          |
| No                                                     | 0.00 (0.07 4.0)         | 1.02 (1, 1.04)          | 10 7 (0 70 00)           |
| Missing                                                | $0.83 \ (0.25, \ 1.8)$  | $0.91 \ (0.47, \ 1.72)$ | $16.5 \ (6.78, \ 36)$    |
| Septic complication                                    |                         | 0 =0 (0.4 = 0)          | 0.00 (0.1.1.00)          |
| 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                     | (1, 0.0)                | 0.01 (0.10, 1.44)       | 21.0 (0, 40)             |
| 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                      | 9 5 (1 5 5)             | 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                  | 1 66 (1 00 0 00)        | 19/115 154              | 1.10 (1.05 1.90)         |
| 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<br>I am extremely anxious or depressed | $0.34\ (0.11,\ 0.82)$ | $0.21\ (0.06,\ 0.51)$ | 0.38 (0.18, 0.87)<br>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                                          | 2.0 (1, 0.0)          | 0.01 (0.40, 1.44)     | 21.0 (3, 40)                        |
| 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)     | 1.00 (1, 1.11)        | 1.31 (0.62, 3.1)                    |
| I am confined to bed                                                        | 1.10 (0.00, 0.04)     | 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                                         | 0.0 (0.55, 1.5)       | 1.07 (0.02, 1.00)     | 0.5 (0.71, 10.10)                   |
| 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)     | 1.07 (1, 1.17)        | 2.31 (1, 5.6)                       |
| I am unable to bathe or dress myself                                        | 0.03 (0.24, 2.21)     | 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                                  | 0.0 (0.55, 1.5)       | 1.07 (0.02, 1.00)     | 0.5 (0.71, 10.10)                   |
| 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                      | 0.10 (0.01, 0.00)     | 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                                   | 0.0 (0.55, 1.5)       | 1.07 (0.02, 1.00)     | 0.5 (0.71, 10.10)                   |
| 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                                           | 0.01 (0.20, 1.17)     | 0.01 (0.00, 1.00)     | 0.75 (0.11, 1.21)                   |
| 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                                | 0.0 (0.55, 1.5)       | 1.07 (0.02, 1.00)     | 0.5 (0.71, 10.10)                   |
| 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                                        | 0.00 (0.01, 0.00)     | 0.28 (0, 0.86)        | 1.22 (0.62, 3.09)                   |
| I am extremely anxious or depressed                                         |                       | 0.20 (0, 0.00)        | 1122 (0.02, 0.00)                   |
| Missing                                                                     | 0.8 (0.33, 1.5)       | 1.07 (0.62, 1.88)     | 5.9 (3.71, 10.16)                   |
| Patient satisfaction                                                        | 0.0 (0.00, 2.0)       |                       | (0.1.2, 20.20)                      |
| 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(85% CI)

| 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                                    | 0.0 ( 0.4 .0.04)    |                         |
| Yes                                                    | 0.8 (-2.4, 6.64)    | 0.00 (0.00 1.00)        |
| No<br>M:                                               | -1 (-8, 1)          | 0.99 (0.92, 1.02)       |
| Missing                                                | 28 (21, 50)         | 6.6 (6.14, 43)          |
| Renal failure                                          |                     |                         |
| Yes                                                    |                     |                         |
| No<br>Mindre                                           | 97 (91 49)          | 6.4 (5.97.49)           |
| Missing                                                | 27 (21, 48)         | 6.4 (5.87, 42)          |
| Coagulopathy                                           | 4.9 ( 16 4.97)      |                         |
| Yes                                                    | -4.3 (-16, -4.27)   | 1.04 (1. 1.10)          |
| No<br>Missing                                          | 4 (0, 16)           | 1.04 (1, 1.19)          |
| Need for reexploration or resurgery                    | 27 (21, 48)         | 6.4 (5.87, 42)          |
| 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                     | 30 (23, 50)         | 1 (0.00, 40)            |
| 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                            | 11 (61, 60)         | 11.07 (17.0, 00)        |
| 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)         | (0, 0)                  |
| 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)                      | 4.9. (9.50, 90.5)                  |
| Missing                                                                       | 33 (21, 49.23)                    | 4.3 (3.56, 20.5)                   |
| EQ-5D mobility at 30 day follow-up                                            | 9 ( 95 95)                        | 0.00 (0.55 1.95)                   |
| 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)                     | 7 99 (7 44 59)                     |
| Missing                                                                       | 51 (44, 69)                       | $7.38 \ (7.44, 53)$                |
| EQ-5D self-care at 30 day follow-up                                           | 1 ( 01 09 09)                     | 0.00 (0.70 1.9)                    |
| 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                                    | 6 ( 17 99)                        | 1.00 (0.00 1.05)                   |
| 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                                     | 1 ( 14 19)                        | 0.00 (0.04 1.17)                   |
| 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)                       | 7 99 (7 44 59)                     |
| Missing                                                                       | 51 (44, 69)                       | $7.38 \ (7.44, 53)$                |
| EQ-5D anxiety/depression at 30 day follow-up<br>I am not anxious or depressed | 10 (7. 26)                        | 1 12 (1 00 1 59)                   |
| I am moderately anxious or depressed                                          | 10 (7, 36)<br>-11.1 (-35.8, -7.5) | 1.12 (1.09, 1.58)<br>0.26 (0, 0.6) |
| I am extremely anxious or depressed                                           | 1 (0, 4.16)                       | 0.20 (0, 0.0)                      |
| Missing                                                                       | 51 (44, 69)                       | 7.38 (7.44, 53)                    |
| Patient satisfaction                                                          | 31 (44, 09)                       | 1.38 (1.44, 33)                    |
| 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                                    | 15 (-10, 50)                      | 0.10 (0.2, 20)                     |
| 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)                   |
| 0                                                                             | 30 (0,0000)                       | (,)                                |

# Absolute and relative differences in outcomes after training, comparing standard care with PTC(85% CI)

| 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<br>Yes                             | 2 (0, 12)                         | 1.09 (1.01 1.14)                       |
| No                                                              | -1.4 (-12, 0)                     | 1.02 (1.01, 1.14)                      |
| Missing                                                         | 21 (3, 32.78)                     | 8 (4.41, 43.05)                        |
| Return to work                                                  | 21 (3, 32.78)                     | 0 (4.41, 45.05)                        |
| 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<br>N-                                                       |                                   |                                        |
| No<br>Missing                                                   | 22 ( 2 26)                        | 2.2 (0.26, 10.25)                      |
| Coagulopathy                                                    | 22 (-2, 36)                       | $3.2 \ (0.26, \ 10.25)$                |
| 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                                     | 20 ( 40 2 - 10)                   | 0.67 (0.52, 0.84)                      |
| I have no problems in walking I have some problems in walking   | -30 (-48.3, -18)<br>14 (8.13, 33) | 0.67 (0.53, 0.84)<br>3.8 (3.33, 16.11) |
| I am confined to bed                                            | 15.7 (0, 25)                      | 5.0 (5.55, 10.11)                      |
| Missing                                                         | 30 (-1, 46)                       | 3.31 (0.78, 8)                         |
| EQ-5D self-care at discharge                                    | 33 ( -, -3)                       | 0.02 (0.10, 0)                         |
| 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                              | 40 ( 69 - 24)                     | 0.38 (0.21, 0.43)                      |
| I have no pain or discomfort I have moderate pain or discomfort | -40 (-62, -34)<br>5 (-6, 45)      | 1.17 (0.88, 4.46)                      |
| I have extreme pain or discomfort                               | 35 (-3.4, 46)                     | 1.11 (0.00, 4.40)                      |
| 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)          | 0.04 (0.70.0)            |
| Missing                                                | 30 (-1, 46)            | $3.31\ (0.78,\ 8)$       |
| EQ-5D mobility at 30 day follow-up                     | 24 ( 72 24)            | 0 =0 (0 = 0 0)           |
| 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)         |
| U                                                      | ~~ (~, ~/              | (,)                      |

# Absolute and relative differences in outcomes after training, comparing ATLS with PTC(85% CI)

| 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<br>Yes                    | 2 (1 14)                       | 1.02 (1.01. 1.16)                   |
| No                                                     | 3 (1, 14)<br>-2.9 (-14, -2.99) | 1.03 (1.01, 1.16)                   |
| Missing                                                | 1 (-23, 21)                    | 1.33 (0.1, 8.33)                    |
| Return to work                                         | 1 (-25, 21)                    | 1.55 (0.1, 0.55)                    |
| 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                                                     | F ( 90, 0)                     | 0 7 (0 1 1)                         |
| Missing                                                | -5 (-39, 0)                    | 0.5 (0, 1.1)                        |
| Coagulopathy<br>Yes                                    | 49 (4 16)                      |                                     |
| No                                                     | 4.3 (4, 16)<br>-4 (-16, -4)    | 0.96 (0.84, 0.96)                   |
| Missing                                                | -4 (-10, -4)<br>-5 (-39, 0)    | 0.5 (0.34, 0.90)<br>0.5 (0, 1.1)    |
| Need for reexploration or resurgery                    | 0 ( 35, 5)                     | 0.0 (0, 1.1)                        |
| 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                           | 10 ( 50 94 0)                  | 0.70 (0.51 1.05)                    |
| 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)<br>0.77 (0.11, 1.2) |
| Missing EQ-5D usual activities at discharge            | -3 (-51, 2)                    | 0.77 (0.11, 1.2)                    |
| 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                     | s ( s=, =)                     | **** (***=*, =*=)                   |
| 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)           | 3.4 (2.8, 22.31)        |
| Missing                                                | -3 (-51, 2)           | 0.77 (0.11, 1.2)        |
| EQ-5D mobility at 30 day follow-up                     | -5 (-51, 2)           | 0.77 (0.11, 1.2)        |
| I have no problems in walking                          | -18 (-55, -15)        | 0.82 (0.45, 0.86)       |
| I have some problems in walking                        | 20 (19, 55)           | 0.02 (0.10, 0.00)       |
| 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                    | . ( 00, 1)            | 0.00 (0.00, 1.10)       |
| 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)         | 0.02 (0.01, 0.00)       |
| 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(85% CI)

| 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                                     | 33 ( 23, 31)         |                     |
| 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                              | 55 ( 10, 51)         |                     |
| 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                               | 55 (-40, 51)         |                     |
| ·                                                                | 25 ( 58 40)          |                     |
| I have no pain or discomfort  L have moderate 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                            | 90 ( 79 49)          | 0.20 / 01.05 (0.04) |
| 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)         |
| <del></del>                                            |                            |                            |

# Absolute and relative differences in changes from baseline for all outcomes, comparing standard care with PTC(85% CI)

| 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                           | 9 ( 4 99 90)                  |                         |
| Yes                                                    | 3 (-4, 23.89)                 |                         |
| No                                                     | -2.4 (-22.17, 4.73)           |                         |
| Missing                                                | 27 (22, 49)                   |                         |
| Return to work                                         | 16 ( 47 97 44)                |                         |
| Yes                                                    | 16 (-47.27, 44)               |                         |
| No<br>Missing                                          | -16 (-46, 43)                 |                         |
| Missing Pulmonary complication                         | 43(2,65)                      |                         |
| Pulmonary complication Yes                             | 2.2 (1.9, 10)                 |                         |
| No                                                     | ` ' .'                        |                         |
| Missing                                                | -2 (-10, -3)<br>32 (4, 49.28) |                         |
| Septic complication                                    | 32 (4, 49.28)                 |                         |
| Yes                                                    | -0.5 (-5.4, 5.63)             |                         |
| No                                                     | 0 (-8, 3)                     |                         |
| Missing                                                | 34 (5, 52)                    |                         |
| Renal failure                                          | 01 (0, 02)                    |                         |
| Yes                                                    |                               |                         |
| No                                                     |                               |                         |
| Missing                                                | 32 (5, 50.63)                 |                         |
| Coagulopathy                                           | 3_ (0, 00.00)                 |                         |
| 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 I am extremely anxious or depressed | 7.8 (-28.11, 33.6)<br>1.5 (0, 13.5) | 0.59 (0.17, 4.72) |
|--------------------------------------------------------------------------|-------------------------------------|-------------------|
| 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  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                                      | 48 (1.95, 09)                       |                   |
| 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                               | 40 (1.30, 03)                       |                   |
| 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                                | 10 (1100, 00)                       |                   |
| 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(85% CI)

| 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                           | 1 (1,0)              |                     |
| Yes                                                    | 7 (4, 41)            |                     |
| No                                                     | -7.1 (-41.1, -5.02)  |                     |
| Missing                                                |                      |                     |
| 9                                                      | 5 (-13, 29)          |                     |
| Return to work                                         | 01 ( 00 0 41)        |                     |
| 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                                           | 1 ( 55.51; 52.55)    |                     |
| Yes                                                    | 4 2 (4 16)           |                     |
|                                                        | 4.3 (4, 16)          |                     |
| No<br>Mississes                                        | -4 (-16, -4)         |                     |
| Missing                                                | 1 (-36, 34)          |                     |
| Need for reexploration or resurgery                    | 0.5 ( 4.9.4)         |                     |
| 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                    | 9 / 94 45 41         |                     |
| 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                  | 0 (10, 10)           |                     |
| I am not anxious or depressed                          | 11 ( 4 70)           | 1.5 (0.82.25)       |
| 1 am not anxious of 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) | )) |
|------------------------------------------------------------------------------------------------------------------------------------------------|----|
|                                                                                                                                                |    |
| Wissing 9 (-19, 40)                                                                                                                            |    |
| EQ-5D mobility at 30 day follow-up                                                                                                             |    |
| • • • • •                                                                                                                                      |    |
|                                                                                                                                                | 1  |
| 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 intervals (CI)

#### Outcomes in all patients during the entire study period, by treatment arm (95% CI)

| 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                                      |                     |                  | 0.5 (0.1.6)            |
| Yes                                                    |                     |                  | 0.5 (0, 1.6)           |
| No<br>M:                                               | 4 (1 0)             | 19 (6, 90)       | 99 (98, 99)            |
| Missing  In hespital mentality                         | 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 No                                                  | 98 (86, 100)        | 95 (90, 98)      | 90 (85, 93)            |
| Missing                                                | 1 (0, 3)            | 95 (90, 96)      | 2 (0, 5)               |
| Self-ambulatory at discharge                           | 1 (0, 3)            |                  | 2 (0, 3)               |
| 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                                         | 0 (0, 10.70)        | 11 (0, 11)       | 20 (10, 56)            |
| 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                                 | 10 (11, 21)         | 01 (21, 42)      | 00 (99, 02)            |
| Yes                                                    |                     | 0.9(0, 3.5)      |                        |
| No                                                     |                     | 99 (95, 100)     |                        |
| Missing                                                | 11 (5, 18)          | 21 (13, 30)      | 35 (24, 46)            |
| Septic complication                                    | 11 (0, 10)          | 21 (10, 00)      | 00 (21, 10)            |
| 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                                          | (*, -*)             | (,)              | 3 - (-3, -3)           |
| 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)         |
| <del>-</del>                                           |                     | * * * *          | * ' '                  |

| 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              | (,)             | _= (==, ==)          | (0 2, 00)         |
| 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           | (,)             | _= (==, ==)          | (0 2, 00)         |
| 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                    | (0.1, 01.00)    | 1 (0, 4.3)           | 0.8 (0, 4.3)      |
| Missing                                                | 18 (10, 26)     | 29 (19, 39)          | 69 (54, 83)       |
| Patient satisfaction                                   | (,)             | _= (==, ==)          | (0 2, 00)         |
| 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             | • (=, ==)       | 5 (5, 25)            | (,)               |
| 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 $\mathrm{arm}(95\%~\mathrm{CI})$

| Outcome                                                               | ATLS, $N = 16$          | PTC, $N = 57$             | Standard care, $N = 41$        |
|-----------------------------------------------------------------------|-------------------------|---------------------------|--------------------------------|
| 30 day mortality                                                      |                         | 40 (5 55 55)              |                                |
| Yes                                                                   |                         | 10 (2.32, 20)             | 2.6 (0, 14.5)                  |
| No<br>M:                                                              | 0 (0 5)                 | 90 (78.57, 96)            | 97 (81, 100)                   |
| Missing                                                               | 2(0, 5)                 | 8 (3, 14)                 | 3(0,7)                         |
| 24 hour mortality                                                     |                         |                           | 9.4 (0. 11.05)                 |
| Yes<br>No                                                             |                         |                           | 2.4 (0, 11.05)<br>98 (88, 100) |
| No<br>Missing                                                         | 2 (0 5)                 | 5 (1 0)                   | 98 (88, 100)                   |
| In-hospital mortality                                                 | 2(0,5)                  | 5(1, 9)                   |                                |
| Yes                                                                   |                         | 7 (1.9, 16)               | 4.9 (0, 17)                    |
| No                                                                    |                         | 93 (81.7, 97)             | 95 (81, 98)                    |
| Missing                                                               |                         | 33 (01.1, 31)             | 30 (01, 30)                    |
| 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                                                        | - (-, -)                | 0 (0, 10:10)              | - (0, 0)                       |
| 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)                 |
|                                                                       | 67 (30.09, 89)          | 63 (44.05, 76)            | 41 (24, 56)                    |
| I have moderate pain of discomon.                                     | (,)                     |                           | * * *                          |
| I have moderate pain or discomfort  I have extreme pain or discomfort |                         | 2.4 (0. 13)               | 20 (14: 40:01)                 |
| I have extreme pain or discomfort                                     | 4 (1. 8)                | 2.4 (0, 13)<br>16 (8, 24) | 26 (14, 40.01)<br>2 (0, 5)     |
| I have extreme pain or discomfort<br>Missing                          | 4 (1, 8)                | 2.4 (0, 13)<br>16 (8, 24) | 26 (14, 40.01) 2 (0, 5)        |
| I have extreme pain or discomfort                                     | 4 (1, 8)<br>50 (17, 75) | * ' '                     |                                |

| I am extremely anxious or depressed                    | 4 (4 . 0)       | 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                     | 67 (0. 100)     | 01 (77 52 07)    | GE (46 DE 91)      |
| I have no problems in walking                          | 67 (0, 100)     | 91 (77.53, 97)   | 65 (46.25, 81)     |
| I have some problems in walking I am confined to bed   | 17 (0, 70.43)   | 7 (2.02, 19)     | 13 (3.12, 27)      |
|                                                        | 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                    | 02 (0.05, 100)  | 01 (70 95 07)    | 71 (F9 OF)         |
| 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                   | 10 (4 10)       | 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             |                 | 01 (70 95 07)    | 71 (50 15 95)      |
| 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 $\mathrm{arm}(95\%~\mathrm{CI})$

| 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                           |                | 0= (00, 00)       | 00 (04 400)              |
| Yes                                                    |                | 97 (86, 99)       | 99 (94, 100)             |
| No                                                     | 4 (4 0)        | 2.9 (0, 9.08)     | 1.5 (0, 5.59)            |
| Missing                                                | 4(1, 8)        | 3(0,7)            | $24 \ (14,\ 32.64)$      |
| Return to work                                         | FO (99 FO)     | F0 (FF 00)        | F9 (49, 61,06)           |
| 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<br>N-                                              |                |                   |                          |
| No                                                     | F (1 0)        | 10 (5 15)         | 99 (99 49)               |
| Missing                                                | 5(1, 9)        | 10 (5, 17)        | $33\ (22,\ 43)$          |
| Septic complication                                    |                | 0.0 (0.11)        | 0.0 (0.4)                |
| Yes                                                    |                | 3.2 (0, 11)       | 0.8 (0, 4)               |
| No                                                     | F (1 0)        | 97 (88, 100)      | 99 (96, 99)              |
| Missing                                                | 5(1, 9)        | 10 (5, 17)        | $33\ (22,\ 43)$          |
| Renal failure                                          |                |                   |                          |
| Yes                                                    |                |                   |                          |
| No                                                     | ~ (4 0)        | 40 (5 45)         | 00 (04 40)               |
| Missing                                                | 5(1, 9)        | 10 (5, 17)        | $32\ (21,\ 42)$          |
| Coagulopathy                                           | 4.9. (0        |                   |                          |
| Yes                                                    | 4.3 (0, 22.71) |                   |                          |
| No<br>M:                                               | 96 (77, 100)   | 10 (5 15)         | 20 (01 40)               |
| Missing                                                | 5(1, 9)        | 10 (5, 17)        | 32 (21, 42)              |
| Need for reexploration or resurgery                    |                | 1.6.(0.0.01)      | 0.5 (0.7)                |
| Yes                                                    |                | 1.6 (0, 9.21)     | 2.5(0,7)                 |
| No                                                     | C (O 11)       | 98 (90, 100)      | 97 (92, 98)              |
| Missing                                                | 6(2, 11)       | 10 (5, 17)        | 42 (30.18, 54)           |
| Failure of conservative management                     | 00 (51 100)    | 00 (00 100)       | 00 (00 00)               |
| 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                            | 00 (00 100)    | 00 (00 1 07)      | 62 (52, 50)              |
| 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                                   | 10 (4 17)      | 3.3 (0, 11)       | 19 (11, 26)              |
| Missing                                                | 10 (4, 17)     | 13 (6, 21)        | 43 (30.04, 54)           |
| EQ-5D self-care at discharge                           | 07 (04 00 07)  | 05 (50, 00)       | 50 (40, 50)              |
| 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                    | 01 (00 00 01)  | 05 (50 00)        | 47 (90 79)               |
| 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                     | FO (05 54)     | 0F (FO FO)        | 05 (10 01 00)            |
| 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                      | 46.44          | 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)      |
|                                                        | <u></u>         |                  |                   |

## Absolute change from baseline for all outcomes, comparing the period after training with the period before training, by treatment arms(95% CI)

| 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                                                  | 9.7 (0. 00.00)                   | 0.0 (10.70 4.0)                 | 71 (4 10 0)                      |
| Yes                                                                    | 3.7 (0, 20.68)                   | -2.9 (-12.79, 4.2)              | 7.1 (-4, 13.3)                   |
| No<br>Missing                                                          | -4 (-21, 0)                      | 3 (-5, 11)                      | -7 (-14, 2)                      |
| Self-ambulatory at discharge                                           | 1(0,3)                           |                                 | 2(0,5)                           |
| 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                                                    |                                  | 10 (1001 55)                    | 1.7 ( 11.70, 1.0)                |
| Yes                                                                    |                                  | -1.2 (-10.31, 5.5)              | -1.7 (-11.72, 1.6)               |
| No<br>Minimum                                                          | 1 ( 0 4)                         | 1 (-6, 8.2)                     | 1 (-2, 7)                        |
| Missing Renal failure                                                  | -1 (-9, 4)                       | -2 (-12, 6)                     | $32\ (21,\ 42)$                  |
| Yes                                                                    |                                  |                                 |                                  |
| No                                                                     |                                  |                                 |                                  |
| Missing                                                                | 0 (-7, 5)                        | -1 (-11, 7)                     | 31 (20, 41)                      |
| Coagulopathy                                                           | 0 ( 1, 0)                        | 1 (11, 1)                       | 01 (20, 11)                      |
| 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                                            | 22 (-12, 56)                     | 0 ( = 33)                       | 0 ( 17 10 99)                    |
| I have no problems in walking I have some problems in walking          | 22 (-12, 56)<br>2.7 (-23.17, 20) | 9 (-5, 23)<br>-7 (-19.12, 4.99) | 0 (-17, 19.83)<br>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                                           | - ( ')/                          | - (, -,                         | (10, 00)                         |
| 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                                     | 17 (00 71)                       | 01 (0 (=)                       | 0 ( 00 07 0)                     |
| 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                                      | 6 ( 2 12)                        | 2.6 (-4.7, 9.7)                 | 14 (-6.34, 27)                   |
| Missing EO-5D anxiety/depression at discharge                          | 6 (-2, 12)                       | -3 (-14, 7)                     | $41\ (29,\ 53)$                  |
| EQ-5D anxiety/depression at discharge<br>I am not anxious or depressed | 33 (-5.81, 64)                   | 99 (7 37)                       | 13 (0, 29)                       |
| r am not anxious or depressed                                          | 33 (-3.81, 04)                   | 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)      | 3 (3,)                | 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)        |
|                                                        | ' ( ', ±')            | o ( 10, 11)           | 0. (10.01, 00)        |

## Relative change from baseline for all outcomes, comparing the period after training with the period before training, by treatment arms(95%~CI)

| Outcome                                                | ATLS, $N = 28$                        | PTC, $N = 73$                         | Standard care, $N = 161$                |
|--------------------------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------------|
| 30 day mortality                                       |                                       | 0.40 (0.001)                          | 0.15 (0.00 10.01)                       |
| Yes                                                    | 0.00 (0.50 1)                         | 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                                                    |                                       |                                       | 1.00 (1.1.00)                           |
| No                                                     | 1 (0 4)                               | 1.0 (0.5.0)                           | 1.02 (1, 1.08)                          |
| Missing                                                | 1(0, 4)                               | 1.6 (0.5, 6)                          |                                         |
| In-hospital mortality                                  |                                       | 0.50 (0.000)                          | 9.45 (0.55 6.10)                        |
| Yes                                                    | 0.00 (0.70 1)                         | 0.59 (0, 2.89)                        | $2.45 \ (0.77, 6.19)$                   |
| No<br>M:                                               | $0.96 \ (0.79, 1)$                    | $1.03 \ (0.95, \ 1.15)$               | $0.93 \ (0.86, \ 1.03)$                 |
| Missing                                                |                                       |                                       |                                         |
| Self-ambulatory at discharge<br>Yes                    | 1.09 (1, 1.59)                        | 1.01 (0.05.1.1)                       | 1.04 (0.98, 1.17)                       |
| No                                                     | 1.09 (1, 1.39)                        | 1.01 (0.95, 1.1)                      | \                                       |
|                                                        | 1 (0. 9.5)                            | $0.71 (0, 4) \\ 0.38 (0, 1.57)$       | 0.29 (0, 1.52)                          |
| Missing Return to work                                 | $1\ (0,\ 3.5)$                        | 0.36 (0, 1.37)                        | 12 (3.73, 29)                           |
| Yes                                                    | 0.7 (0.41, 1.42)                      | 0.95 (0.73, 1.2)                      | 1.29 (0.85, 2.24)                       |
| No No                                                  |                                       | , , ,                                 | * * * * * * * * * * * * * * * * * * * * |
| Missing                                                | 2.47 (1.11, 7.14)<br>0.9 (0.29, 2.25) | 1.15 (0.61, 2.48)<br>1.07 (0.5, 2.25) | 0.8 (0.55, 1.2)<br>4.67 (2.52, 9)       |
| 9                                                      | 0.9 (0.29, 2.25)                      | 1.07 (0.5, 2.25)                      | 4.07 (2.52, 9)                          |
| Pulmonary complication Yes                             |                                       |                                       |                                         |
| res<br>No                                              |                                       | 1.02 (1, 1.08)                        |                                         |
|                                                        | 0.83 (0.14, 2.67)                     | 0.91 (0.36, 2.5)                      | 16 5 (5 11 20)                          |
| Missing<br>Septic complication                         | 0.83 (0.14, 2.07)                     | 0.91 (0.36, 2.3)                      | 16.5 (5.11, 39)                         |
| Yes                                                    |                                       | 0.79 (0. 9.91)                        | 0.32 (0, 1.62)                          |
|                                                        |                                       | 0.73 (0, 3.81)                        | 1.01 (0.98, 1.08)                       |
| No<br>Mississes                                        | 0.02 (0.14 9.67)                      | 1.01 (0.94, 1.1)                      | . , ,                                   |
| Missing                                                | $0.83 \ (0.14, \ 2.67)$               | $0.83 \ (0.33, \ 2)$                  | $33\ (12.33,\ 44.32)$                   |
| Renal failure                                          |                                       |                                       |                                         |
| Yes                                                    |                                       |                                       |                                         |
| No<br>M:                                               | 1 (0.11 9)                            | 0.01 (0.96, 0.5)                      | 20 (11 5 40)                            |
| Missing                                                | $1\ (0.11,\ 3)$                       | $0.91 \ (0.36, \ 2.5)$                | $32\ (11.5,\ 42)$                       |
| Coagulopathy                                           |                                       |                                       |                                         |
| Yes                                                    | 0.00 (0.55.4)                         |                                       |                                         |
| No                                                     | 0.96 (0.77, 1)                        | 0.00 (0.00 0.05)                      | 20 (11 5 40)                            |
| Missing                                                | $0.83 \ (0.14, \ 2.67)$               | $0.83 \ (0.33, \ 2.07)$               | $32\ (11.5,\ 42)$                       |
| Need for reexploration or resurgery                    |                                       | 0 =0 (0 4 4=)                         |                                         |
| Yes                                                    |                                       | 0.76 (0, 4.47)                        | 0.07 (0.00, 0.00)                       |
| No                                                     | 4 7 (0 00 0)                          | 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)                     | $21.\overline{5}$ $(7.3, 50)$           |
| 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                      | (- 00,0)                              | 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                  | 2.0 (0.02, 0)                         | 5.01 (0.01, 1.00)                     | 21.0 (1.0, 00)                          |
| I am not anxious or depressed                          | 1.66 (0.94, 3.8)                      | 1.3 (1.1, 1.65)                       | 1.16 (1.01, 1.51)                       |
| 1 am not wintout of depressed                          | 1.00 (0.04, 0.0)                      | 1.0 (1.1, 1.00)                       | 1.10 (1.01, 1.01)                       |

| I am moderately anxious or depressed<br>I am extremely anxious or depressed | $0.34\ (0,\ 1.29)$      | $0.21\ (0,\ 0.75)$      | 0.38 (0.13, 1.23)<br>0.65 (0.14, 2.38) |
|-----------------------------------------------------------------------------|-------------------------|-------------------------|----------------------------------------|
| Missing                                                                     | 2.5 (0.62, 8)           | 0.81 (0.37, 1.85)       | , ,                                    |
| 9                                                                           | 2.5 (0.02, 8)           | 0.61 (0.57, 1.65)       | 21.5 (7.3, 50)                         |
| EQ-5D mobility at 30 day follow-up                                          | 1 10 (0 7 9 16)         | 1.00 (0.00 1.00)        | 1.19 (0.0. 1.69)                       |
| 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                                             | $1.18 \ (0.42, 4)$      | 0.74 (0. 4.04)          | 1.31 (0.5, 4.52)                       |
| I am confined to bed                                                        | 0.0 (0.00, 0)           | 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                                         | 0.00 (0.51 0.50)        | 1 0= (0 0= 1 01)        | 4.44 (0.00 4.45)                       |
| 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                             | $0.59 \ (0.12, \ 3.12)$ | (- 1)                   | $2.31 \ (0.72, 6.54)$                  |
| 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)       | 1110 (010, 2110)        | 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)                      |
|                                                                             | 1.5 (0.00, 2.10)        | 1.11 (0.0, 2.22)        | 3.01 (2.01, 0.01)                      |

# Absolute and relative differences in outcomes after training, comparing standard care with ATLS(95% CI)

| 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)    | 0.00 (0.0.4.00)                     |
| No                                                        | -1 (-11, 2)         | 0.99 (0.9, 1.03)                    |
| Missing                                                   | 28 (1, 50)          | 6.6 (4.25, 43)                      |
| Renal failure                                             |                     |                                     |
| Yes                                                       |                     |                                     |
| No                                                        | 27 (4, 40)          | 0.4 (4.11.40)                       |
| Missing                                                   | 27 (4, 48)          | 6.4 (4.11, 42)                      |
| Coagulopathy                                              | 49 ( 16, 0)         |                                     |
| Yes                                                       | -4.3 (-16, 0)       | 1.04 (1. 1.10)                      |
| No<br>Minimum                                             | 4 (0, 16)           | 1.04 (1, 1.19)                      |
| Missing                                                   | 27(4,48)            | 6.4 (4.11, 42)                      |
| Need for reexploration or resurgery<br>Yes                | 2 5 (0, 7.9)        |                                     |
| No                                                        | 2.5 (0, 7.8)        | 0.07 (0.02, 0.08)                   |
|                                                           | -3 (-8, -2)         | 0.97 (0.92, 0.98)                   |
| Missing  Failure of conservative management               | 36 (-3.47, 56)      | 7 (4.22, 48)                        |
| Failure of conservative management No                     | 6 (2, 26)           | 1.07 (1.02, 1.26)                   |
| Yes                                                       | 6(2, 26)            | 1.07 (1.02, 1.36)<br>0.21 (0, 2.28) |
| Missing                                                   | -6.3 (-26, -2.4)    | 14.67 (8.42, 55)                    |
| 9                                                         | 41 (30, 56)         | 14.07 (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)        | 1.75 (0.00, 12.75)                  |
| Missing                                                   | 33 (-23, 50)        | 4.3 (2.38, 20.5)                    |
| EQ-5D self-care at discharge                              | 55 ( 25, 55)        | 1.0 (2.00, 20.0)                    |
| 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                       | 22 (20, 30)         | (2.00, 20.0)                        |
| 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)                   |
| -<br>-                                                    |                     | /                                   |

| 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(95% CI)

| 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                                                | 7.0 ( 2.00, 10)                | 0.09 (0.74, 17.00)       |
| Yes                                                                  | 7.9 (-3.66, 16)                | 2.93 (0.74, 17.86)       |
| No<br>Missing                                                        | -8 (-24, 2)<br>2 (-1, 6)       | $0.92 \ (0.8, \ 1.03)$   |
| Self-ambulatory at discharge                                         | 2 (-1, 0)                      |                          |
| 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<br>Minima                                                         | 99 ( 99, 40)                   | 2.2 (0.19, 14.65)        |
| Missing Septic complication                                          | 23 (-22, 40)                   | $3.3 \ (0.12, 14.65)$    |
| 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)                | 1 (0.00 1)               |
| No<br>Missing                                                        | 0 (-17, 0)                     | 1 (0.83, 1)              |
| Missing Need for reexploration or resurgery                          | 22 (-20, 39.08)                | $3.2\ (0.13,\ 14.5)$     |
| 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<br>Missing                                      | 15.7 (-15.7, 28)               | 3.31 (0.35, 13.38)       |
| EQ-5D self-care at discharge                                         | 30 (-10, 51)                   | 3.31 (0.33, 13.36)       |
| 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                                   | 40 ( 69                        | 0.90 (0.01 0.57)         |
| I have no pain or discomfort                                         | -40 (-62, -22)<br>5 ( 16, 45)  | $0.38 \ (0.21, \ 0.57)$  |
| I have moderate pain or discomfort I have extreme pain or discomfort | 5 (-16, 45)<br>35 (-36.75, 49) | $1.17 \ (0.69, 4.46)$    |
| Missing                                                              | 30 (-10, 51)                   | 3.31 (0.35, 13.38)       |
| EQ-5D anxiety/depression at discharge                                | 00 (10, 01)                    | 0.01 (0.00, 10.00)       |
| 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)           | 0.01 (0.05 10.00)        |
| Missing                                                | 30 (-10, 51)           | $3.31 \ (0.35, \ 13.38)$ |
| EQ-5D mobility at 30 day follow-up                     | 21 ( 72 14)            | 0.70 (0.7.0.00)          |
| 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)         | 0.00 (0.10 15 =5)        |
| 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(95% CI)

| 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                                         | 10 ( 10 =)          | 0.00 (0.40.4.40)         |
| 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                                                     | 5 ( 40 5)           | 0 7 (0 0 0)              |
| Missing                                                | -5 (-42, 5)         | 0.5 (0, 2.2)             |
| Septic complication                                    | 22 (22 02)          |                          |
| Yes<br>N-                                              | -3.2 (-8.2, -0.8)   | 1.09 (1. 1.00)           |
| No<br>Mississes                                        | 3(0,8)              | 1.03 (1, 1.09)           |
| Missing  Benel foilure                                 | -5 (-41, 5)         | 0.5 (0, 2.2)             |
| Renal failure<br>Yes                                   |                     |                          |
| No                                                     |                     |                          |
| Missing                                                | 5 ( 30, 5)          | 0.5 (0. 2.2)             |
| Coagulopathy                                           | -5 (-39, 5)         | 0.5 (0, 2.2)             |
| 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                    | 0 (30, 0)           | 0.0 (0, 2.2)             |
| 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                  | 10 / 10 1           | 0.05 (0.55 0.00)         |
| 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(95% CI)

| 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                                  | 9.4 ( 10.0, 91.79)                          |                     |
| Yes                                                    | 3.4 (-16.6, 21.53)                          |                     |
| No                                                     | -3 (-22, 16)                                | 2 (2 5 5)           |
| Missing                                                | 1 (-3.52, 5)                                | 2(0.5, 5)           |
| Self-ambulatory at discharge                           | 4 ( 29 4)                                   |                     |
| Yes<br>N-                                              | -4 (-38, 4)                                 |                     |
| No<br>Mining                                           | 4.7 (-3.7, 38)                              |                     |
| Missing                                                | 22 (-31, 39.93)                             |                     |
| Return to work                                         | 27 (19 96)                                  |                     |
| Yes<br>N-                                              | 37 (18, 86)                                 |                     |
| No                                                     | -37 (-86, -19)                              |                     |
| Missing                                                | 45 (-39, 71)                                |                     |
| Pulmonary complication                                 | 0 ( 10 0)                                   |                     |
| Yes                                                    | 0 (-12, 0)                                  |                     |
| No                                                     | 0 (-10, 2)                                  |                     |
| Missing                                                | 32 (-33, 51.17)                             |                     |
| Septic complication                                    | 1 7 ( 10 05 5 17)                           |                     |
| Yes                                                    | -1.7 (-12.85, 5.17)                         |                     |
| No                                                     | 1 (-8, 10)                                  |                     |
| Missing                                                | 33 (-36, 53.18)                             |                     |
| Renal failure                                          |                                             |                     |
| Yes                                                    |                                             |                     |
| No                                                     | 21 ( 24 50 10)                              |                     |
| Missing                                                | 31 (-34, 50.16)                             |                     |
| Coagulopathy                                           | 4.9 ( 1.6, 0)                               |                     |
| Yes                                                    | -4.3 (-16, 0)                               |                     |
| No<br>Mining                                           | 4(0, 16)                                    |                     |
| Missing Need for recognition on recognition            | 32 (-34, 51.29)                             |                     |
| Need for reexploration or resurgery<br>Yes             | 25 (28 10 20)                               |                     |
| No                                                     | 2.5 (-3.8, 10.29)                           |                     |
|                                                        | -3 (-11, 1)                                 | 20 5 (7 9 59)       |
| Missing  Failure of concernative management            | 39 (-43, 63.27)                             | 20.5 (7.8, 58)      |
| Failure of conservative management                     | 6 (0, 26)                                   |                     |
| No<br>Yes                                              | 6(0, 26)                                    |                     |
|                                                        | -6.3 (-26, -1.5)                            |                     |
| Missing                                                | 49 (33, 66)                                 |                     |
| EQ-5D mobility at discharge                            | 99 ( 79 . 6)                                |                     |
| 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                           | 19 ( 56 6)                                  |                     |
| 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                    | 10 ( 04 15)                                 |                     |
| 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                     | 25 ( 25 : : : : : : : : : : : : : : : : : : |                     |
| 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<br>I am extremely anxious or depressed<br>Missing | 21.8 (6, 68)<br>-0.9 (-9.42, 5.6)<br>35 (-51.8, 60.45) | 0.34 (-264, 1.29)         |
|----------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------|
| 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)                             | 0 == (0 == = :)           |
| 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(95% CI)

| 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                                  | 10 (9.0. 07.0)      |                     |
| Yes                                                    | 10 (3.8, 25.8)      |                     |
| No                                                     | -10 (-26, -5)       |                     |
| Missing                                                | 2(-1, 6)            |                     |
| Self-ambulatory at discharge                           | 2 ( 10, 40.7)       |                     |
| Yes                                                    | 3 (-10, 40.7)       |                     |
| No<br>Mining                                           | -2.4 (-40.06, 10.2) |                     |
| Missing                                                | 27 (15.73, 49)      |                     |
| Return to work                                         | 16 ( 61 54)         |                     |
| Yes                                                    | 16 (-61, 54)        |                     |
| No<br>M:                                               | -16 (-56, 57.88)    |                     |
| Missing                                                | 43 (-6, 69.51)      |                     |
| Pulmonary complication                                 | 2.2 (0. 10)         |                     |
| Yes                                                    | 2.2 (0, 10)         |                     |
| No                                                     | -2 (-10, 0)         |                     |
| Missing                                                | 32 (-3, 52)         |                     |
| Septic complication                                    | 0.5 ( 7.44, 7.44)   |                     |
| Yes                                                    | -0.5 (-7.44, 7.44)  |                     |
| No                                                     | 0 (-9, 5)           |                     |
| Missing                                                | 34 (-2, 55)         |                     |
| Renal failure                                          |                     |                     |
| Yes                                                    |                     |                     |
| No                                                     | 22 ( 2 71)          |                     |
| Missing                                                | 32 (-2, 51)         |                     |
| Coagulopathy                                           | 0 ( 17 91 4 9)      |                     |
| Yes                                                    | 0 (-17.31, 4.2)     |                     |
| No<br>M:                                               | 0 (-17, 0)          |                     |
| Missing                                                | 33 (-2, 52)         |                     |
| Need for reexploration or resurgery                    | 9 ( 0 1 10 7)       |                     |
| Yes                                                    | 3 (-0.1, 10.7)      |                     |
| No                                                     | -3 (-11, -1)        |                     |
| Missing                                                | 41 (-1, 64)         |                     |
| Failure of conservative management                     | 0 ( 07 4)           |                     |
| 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                           | 11 ( 07 77 01)      |                     |
| 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                    | 10 ( 50 05 05)      |                     |
| 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<br>I am extremely anxious or depressed<br>Missing | 7.8 (-42.26, 43.34)<br>1.5 (-2, 13.5)<br>44 (33, 74) | 0.59 (0.03, 12.41) |
|----------------------------------------------------------------------------------------|------------------------------------------------------|--------------------|
| 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(95% CI)

| 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                                                   | 0 (20, 00)           |                     |
| Yes                                                              | -21 (-89, 10)        |                     |
| No                                                               |                      |                     |
|                                                                  | 21 (-12, 89)         |                     |
| Missing                                                          | -2 (-66, 41)         |                     |
| Pulmonary complication                                           | 2.2 (0. 10)          |                     |
| 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                               | = (10, 10)           |                     |
| No                                                               | -8 (-28, -2)         |                     |
| Yes                                                              | 8.6 (2.1, 28.5)      |                     |
| Missing                                                          |                      |                     |
| 5                                                                | -8 (-67, 9)          |                     |
| EQ-5D mobility at discharge                                      | 19 ( 19, 79)         |                     |
| 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                               | - ( 50, 51)          |                     |
| · · · · · · · · · · · · · · · · · · ·                            | -14 ( 65.85 40)      |                     |
| I have no pain or discomfort  I have moderate 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                            | 44 /                 | 4 = 75 =            |
| I am not anxious or depressed                                    | 11 (-15, 70)         | 1.5 (0.5, 35)       |
|                                                                  |                      |                     |

| am extremely anxious or depressed   9, 4 (0, 11.4)   9 (-39, 51)     EQ-5D mobility at 30 day follow-up   1 have no problems in walking   6 (-34, 57)   1.86 (0.3, 44)     I have some problems in walking   10 (-16, 87.6)   -16.4 (-101.8, 2.94)     Missing   -3 (-72, 40)     EQ-5D self-care at 30 day follow-up   1 have no problems with self-care   -9 (-93, 16)     I have some problems bathing or dressing myself   -2.3 (-39, 42, 30.96)     I have some problems bathing or dressing myself   11.3 (-77, 62.3)   -3 (-72, 40)     EQ-5D usual activities at 30 day follow-up   1 have no problems in performing my usual activities   1 have some problems in performing my usual activities   1 have some problems in performing my usual activities   1 have some problems in performing my usual activities   1 have some problems in performing my usual activities   1 have some problems in performing my usual activities   1 have moderate pain or discomfort   4 (-39.62, 56.63)     I have moderate pain or discomfort   4 (-39.62, 56.63)   4 (-39.62, 56.63)     I have moderate pain or discomfort   4 (-39.62, 56.63)   4 (-39.62, 56.63)     I have moderate pain or discomfort   2 (-6 (-62.71, 31))     I have extreme pain or discomfort   2 (-6 (-62.71, 31))   4 (-72.40)     EQ-5D anxiety/depression at 30 day follow-up   4 (-30.62, 50)     I am moderately anxious or depressed   -26 (-49, -17.47)     I am moderately anxious or depressed   -26 (-49, -17.47)     I am moderately anxious or depressed   -26 (-49, -17.47)     I am moderately anxious or depressed   -2 (-40, -12.7)     I am moderately anxious or depressed   -2 (-40.2, 42)     I am moderately anxious or depressed   -2 (-40.2, 26)     I am moderately anxious or depressed   -2 (-40.2, 26)     I am moderately anxious or depressed   -2 (-40.2, 42)     I am moderately anxious or depressed   -2 (-40.2, 42)     I am moderately anxious or depressed   -2 (-40.2, 42)     I am moderately anxious or depressed   -2 (-40.2, 42)     I am moderately anxious or depressed   -2 (-40.2, 42)     I am mode   | I am moderately anxious or depressed                   | -14 (-67.3, 8.2)           | 1.74 (0.56, 28.5) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------|-------------------|
| Page      | I am extremely anxious or depressed                    | 2.4 (0, 11.4)              |                   |
| I have no problems in walking       6 (-34, 57)       1.86 (0.3, 44)         I have some problems in walking       10 (-16, 87.6)       10 (-16, 87.6)         I am confined to bed       -16.4 (-101.8, 2.94)       10 (-15, 87.6)         Missing       -3 (-72, 40)       -3 (-72, 40)         EQ-5D self-care at 30 day follow-up       -9 (-93, 16)       -2.3 (-39.42, 30.96)         I am unable to bathe or dress myself       11.3 (-7.7, 62.3)       -3 (-72, 40)         Missing       -3 (-72, 40)       -3 (-72, 40)         EQ-5D usual activities at 30 day follow-up       -29 (-66, 7)       18 (-1.3, 44.9)         I have no problems in performing my usual activities       18 (-1.3, 44.9)       -4 (-72, 40)         I have no problems in performing my usual activities       18 (-1.3, 44.9)       -4 (-72, 40)         I have no problems in performing my usual activities       18 (-1.3, 44.9)       -4 (-72, 40)         I have no problems in performing my usual activities       18 (-1.3, 44.9)       -4 (-72, 40)         I have no pain or discomfort       4 (-39.62, 56.63)       -4 (-72, 40)         I have moderate pain or discomfort       2.3 (0, 12)       -3 (-72, 40)         Missing       -3 (-72, 40)       -2 (-49, -17.47)       -4 (-47, 40, -27)       -4 (-47, 40, -27)       -4 (-47, 40, -27)       -4 (-47, 40, -27)       -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Missing                                                | 9 (-39, 51)                |                   |
| I have some problems in walking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EQ-5D mobility at 30 day follow-up                     |                            |                   |
| Tam 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   -13.4 (-77, 62.3)     Missing   -3 (-72, 40)     EQ-5D usual activities at 30 day follow-up     I have no problems in performing my usual activities     I have some problems in performing my usual activities     I have no problems in performing my usual activities     I have no problems in performing my usual activities     I have no problems in performing my usual activities     I have no problems in performing my usual activities     I have no problems in performing my usual activities     I have no pain or discomfort at 30 day follow-up     I have moderate pain or discomfort   -6 (-62.71, 31)     I have moderate pain or discomfort   -2.3 (0, 12)     Missing   -3 (-72, 40)     EQ-5D anxiety/depression at 30 day follow-up     I am moderately anxious or depressed   -2.6 (-49, -17.47)     I am moderately anxious or depressed   -2.3 (0, 12)     I am moderately anxious or depressed   -2.3 (0, 12)     I am extremely anxious or depressed   -3 (-72, 40)     Patient satisfaction   -3 (-72, 40)     Patient satisfaction   -3 (-72, 2.75)     Somewhat dissatisfied   -6 (-47.26, 25)     Somewhat dissatisfied   -1.27 (-57.2, 2.75)     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   -1 (-109, 20)     Missing   -1 (-109, 20)     Missing   -1 (-109, 20)     Missing   -1 (-109, 20)     Missing   -1 (-17, 33639.83, 29927.2)                                                                                                                                                                                          | I have no problems in walking                          | 6 (-34, 57)                | 1.86(0.3, 44)     |
| Missing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I have some problems in walking                        | 10 (-16, 87.6)             |                   |
| EQ-5D self-care at 30 day follow-up I have no problems with self-care I have some problems bathing or dressing myself I am unable to bathe or dress myself I am unable to bathe or dress myself I am unable to bathe or dress myself I ii.3 (-7.7, 62.3) Missing EQ-5D usual activities at 30 day follow-up I have no problems in performing my usual activities I have some problems in performing my usual activities I am unable to perform my usual activities I have some problems in performing my usual activities I am unable to perform my usual activities I am unable to perform my usual activities I am unable to perform my usual activities I an unable to perform my usual activities I an unable to perform my usual activities I an extreme pain or discomfort I have no pain or discomfort I | I am confined to bed                                   | -16.4 (-101.8, 2.94)       |                   |
| I have no problems with self-care I have some problems bathing or dressing myself I am unable to bathe or dress myself I am unable to bathe or dress myself Missing  EQ-5D usual activities at 30 day follow-up I have no problems in performing my usual activities I have some problems in performing my usual activities I have some problems in performing my usual activities I am unable to perform my usual activities I have no pain or discomfort at 30 day follow-up I have no pain or discomfort I have extreme pain or discomfo | Missing                                                | -3 (-72, 40)               |                   |
| I have some problems bathing or dressing myself I am unable to bathe or dress myself I am unable to bathe or dress myself Missing  EQ-5D usual activities at 30 day follow-up I have no problems in performing my usual activities I have some problems in performing my usual activities I am unable to perform my usual activities I an unable to perform my usual activities I also (-1.3, 44.9) I also (-1.2, 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  2.3 (0, 12)  Missing  -26 (-49, -17.47) I am moderately anxious or depressed 2.3 (0, 11)  Missing  -26 (-49, -17.47) I am moderately anxious or depressed 2.3 (0, 11)  Missing  -3 (-72, 40)  EQ-5D halth statisfied  -6 (-47.26, 25)  -12.7 (-57.2, 2.75)  Somewhat satisfied  -12 (4.2, 26)  Missing  -12 (4.2, 26)  Missing  -10 (-55, 11)  EQ-5D health state at discharge  Missing  -10 (-55, 11)  EQ-5D health state at discharge  Missing  -10 (-55, 11)  EQ-5D health state at 30 day follow-up  Missing  -14 (-71, 18)  Cost of treatment  -1475 (-33639.83, 29927.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                        | EQ-5D self-care at 30 day follow-up                    |                            |                   |
| I am unable to bathe or dress myself   Sissing   11.3 (-7.7, 62.3)   13 (-7.2, 40)   14 (-7.2, 40)   14 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.2, 40)   15 (-7.   | I have no problems with self-care                      | -9 (-93, 16)               |                   |
| Missing       -3 (-72, 40)         EQ-5D usual activities at 30 day follow-up       -29 (-66, 7)         I have no 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       4 (-39.62, 56.63)         I have no 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       3 (-72, 40)         I am not anxious or depressed       -26 (-49, -17.47)         I am moderately anxious or depressed       2.3 (0, 11)         Missing       -3 (-72, 40)         Patient satisfaction       -2 (-40, -17.47)         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       -5 (-78.91, 41.66)         EQ-5D health state at discharge       -5 (-78.91, 41.66)         Missing       -4 (-71, 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I have some problems bathing or dressing myself        | -2.3 (-39.42, 30.96)       |                   |
| Missing       -3 (-72, 40)         EQ-5D usual activities at 30 day follow-up       -29 (-66, 7)         I have no 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       4 (-39.62, 56.63)         I have no 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       3 (-72, 40)         I am not anxious or depressed       -26 (-49, -17.47)         I am moderately anxious or depressed       2.3 (0, 11)         Missing       -3 (-72, 40)         Patient satisfaction       -2 (-40, -17.47)         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       -5 (-78.91, 41.66)         EQ-5D health state at discharge       -5 (-78.91, 41.66)         Missing       -4 (-71, 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I am unable to bathe or dress myself                   | 11.3 (-7.7, 62.3)          |                   |
| I have no problems in performing my usual activities I have some problems in performing my usual activities I am unable to perform my usual activities I am unable to perform my usual activities I in unable to perform my usual activities Missing  EQ-5D pain/discomfort at 30 day follow-up I have no pain or discomfort I have moderate pain or discomfort I have extreme pain or descomfort I have extreme pain or discomfort I have pain pain pain pain pain pain pain pain                                                                                                                                                         | Missing                                                | -3 (-72, 40)               |                   |
| I have some problems in performing my usual activities I am unable to perform my usual activities Missing EQ-5D pain/discomfort at 30 day follow-up I have no pain or discomfort I have extreme pain or discomfort | EQ-5D usual activities at 30 day follow-up             |                            |                   |
| I am unable to perform my usual activities   11.3 (1.1, 34.5)     Missing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | I have no problems in performing my usual activities   | -29 (-66, 7)               |                   |
| Missing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | I have some problems in performing my usual activities | 18 (-1.3, 44.9)            |                   |
| EQ-5D pain/discomfort at 30 day follow-up I have no pain or discomfort I have moderate pain or discomfort I have extreme pain or discomfort I have extremely anxious or depressed I an extremely anxious o | I am unable to perform my usual activities             | 11.3 (1.1, 34.5)           |                   |
| I have no pain or discomfort I have moderate pain or discomfort I have extreme pain or discomfort I have extremely anticomfort I have extreme pain or discomfort I have extreme  | Missing                                                | -3 (-72, 40)               |                   |
| I have moderate pain or discomfort I have extreme pain or discomfort I have extreme pain or discomfort  I have extreme pain or discomfort  EQ-5D anxiety/depression at 30 day follow-up I am not anxious or depressed I am moderately anxious or depressed I am extremely anxious or depre | EQ-5D pain/discomfort at 30 day follow-up              |                            |                   |
| I have extreme pain or discomfort  Missing  EQ-5D anxiety/depression at 30 day follow-up I am not anxious or depressed I am extremely anxious or depressed I an extremely anxi | I have no pain or discomfort                           | 4 (-39.62, 56.63)          |                   |
| Missing       -3 (-72, 40)         EQ-5D anxiety/depression at 30 day follow-up       I am not anxious or depressed         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       -6 (-47.26, 25)         Somewhat satisfied       -6 (-47.26, 25)         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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | I have moderate pain or discomfort                     | -6 (-62.71, 31)            |                   |
| EQ-5D anxiety/depression at 30 day follow-up I am not anxious or depressed I am moderately anxious or depressed I am extremely anxious or depressed I an extremely anxious or depressed o | I have extreme pain or discomfort                      | 2.3 (0, 12)                |                   |
| EQ-5D anxiety/depression at 30 day follow-up I am not anxious or depressed I am moderately anxious or depressed I am extremely anxious or depressed I an extremely anxious or depressed o | Missing                                                | -3 (-72, 40)               |                   |
| 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       -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       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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EQ-5D anxiety/depression at 30 day follow-up           |                            |                   |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | I am not anxious or depressed                          | -26 (-49, -17.47)          |                   |
| Missing       -3 (-72, 40)         Patient satisfaction       -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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | I am moderately anxious or depressed                   | 23.6 (12.2, 46)            |                   |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | I am extremely anxious or depressed                    | 2.3(0,11)                  |                   |
| 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                                                | -3 (-72, 40)               |                   |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Patient satisfaction                                   |                            |                   |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Very satisfied                                         | -6 (-47.26, 25)            |                   |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Somewhat satisfied                                     |                            |                   |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Somewhat dissatisfied                                  | 8.1 (0.9, 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Very dissatisfied                                      | 12 (4.2, 26)               |                   |
| 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                                                | 5 (-22, 30)                |                   |
| 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Number of hospitalizations for this injury             | 0 (-1, -0.5)               |                   |
| 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                                                | -10 (-55, 11)              |                   |
| EQ-5D health state at 30 day follow-up  Missing  -17 (-109, 20)  -4 (-71, 18)  Cost of treatment  -1475 (-33639.83, 29927.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EQ-5D health state at discharge                        | -5 (-78.91, 41.66)         |                   |
| Missing -4 (-71, 18)  Cost of treatment -1475 (-33639.83, 29927.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Missing                                                | 2 (-44.02, 42)             |                   |
| Cost of treatment -1475 (-33639.83, 29927.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EQ-5D health state at 30 day follow-up                 | -17 (-109, 20)             |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Missing                                                | -4 (-71, 18)               |                   |
| Missing 4 (-75, 76)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cost of treatment                                      | -1475 (-33639.83, 29927.2) |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Missing                                                | 4 (-75, 76)                |                   |