**Appendix 1. The AOSpine PROST (Patient Reported Outcome Spine Trauma)**

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| **Appendix 2. Pairwise Spearman correlation between the AOSpine PROST items\*** | | | | | | | | | | | | | | | | | | |
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|  | **Q2** | **Q3** | **Q4** | **Q5** | **Q6** | **Q7** | **Q8** | **Q9** | **Q10** | **Q11** | **Q12** | **Q13** | **Q14** | **Q15** | **Q16** | **Q17** | **Q18** | **Q19** |
| **Q1** | 0.81 | 0.76 | 0.78 | 0.76 | 0.82 | 0.73 | 0.77 | 0.84 | 0.78 | 0.51 | 0.46 | 0.72 | 0.67 | 0.80 | 0.56 | 0.76 | 0.75 | 0.69 |
| **Q2** |  | 0.82 | 0.74 | 0.66 | 0.81 | 0.73 | 0.74 | 0.75 | 0.72 | 0.55 | 0.45 | 0.68 | 0.61 | 0.75 | 0.52 | 0.73 | 0.66 | 0.67 |
| **Q3** |  |  | 0.77 | 0.65 | 0.77 | 0.70 | 0.75 | 0.78 | 0.72 | 0.45 | 0.37 | 0.62 | 0.61 | 0.72 | 0.56 | 0.76 | 0.68 | 0.67 |
| **Q4** |  |  |  | 0.72 | 0.74 | 0.69 | 0.76 | 0.74 | 0.75 | 0.47 | 0.43 | 0.71 | 0.69 | 0.72 | 0.43 | 0.70 | 0.63 | 0.62 |
| **Q5** |  |  |  |  | 0.71 | 0.67 | 0.70 | 0.72 | 0.73 | 0.58 | 0.51 | 0.65 | 0.69 | 0.71 | 0.49 | 0.60 | 0.63 | 0.55 |
| **Q6** |  |  |  |  |  | 0.74 | 0.76 | 0.79 | 0.79 | 0.50 | 0.43 | 0.68 | 0.66 | 0.78 | 0.62 | 0.78 | 0.69 | 0.69 |
| **Q7** |  |  |  |  |  |  | 0.84 | 0.79 | 0.74 | 0.49 | 0.43 | 0.66 | 0.69 | 0.76 | 0.61 | 0.73 | 0.76 | 0.70 |
| **Q8** |  |  |  |  |  |  |  | 0.84 | 0.75 | 0.50 | 0.43 | 0.70 | 0.68 | 0.77 | 0.61 | 0.78 | 0.73 | 0.74 |
| **Q9** |  |  |  |  |  |  |  |  | 0.77 | 0.47 | 0.43 | 0.70 | 0.68 | 0.82 | 0.58 | 0.80 | 0.77 | 0.73 |
| **Q10** |  |  |  |  |  |  |  |  |  | 0.50 | 0.41 | 0.70 | 0.65 | 0.72 | 0.57 | 0.71 | 0.72 | 0.64 |
| **Q11** |  |  |  |  |  |  |  |  |  |  | 0.67 | 0.59 | 0.53 | 0.59 | 0.36 | 0.46 | 0.54 | 0.43 |
| **Q12** |  |  |  |  |  |  |  |  |  |  |  | 0.59 | 0.56 | 0.53 | 0.29 | 0.46 | 0.41 | 0.39 |
| **Q13** |  |  |  |  |  |  |  |  |  |  |  |  | 0.67 | 0.73 | 0.50 | 0.66 | 0.61 | 0.63 |
| **Q14** |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.71 | 0.45 | 0.60 | 0.62 | 0.52 |
| **Q15** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.60 | 0.76 | 0.76 | 0.70 |
| **Q16** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.58 | 0.62 | 0.56 |
| **Q17** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.69 | 0.85 |
| **Q18** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 0.69 |
| \*for a better overview, correlations <0.40 are marked  Q1= Household activities; Q2= Work/study; Q3= Recreation and leisure; Q4= Social life; Q5= Walking; Q6= Travel; Q7= Changing posture; Q8= Maintaining posture; Q9= Lifting and carrying; Q10= Personal care; Q11= Urinating; Q12= Bowel movement; Q13= Sexual function; Q14= Emotional function; Q15= Energy level; Q16= Sleep; Q17= Stiffness of your neck and/or back; Q18= Loss of strength in your arms and/or legs; Q19= Back and/or neck pain | | | | | | | | | | | | | | | | | | |

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| **Appendix 3. Socio-demographic and clinical characteristics of the Test-retest study population (n=48)\*** | | |
| Male (%) | | 27 (56.3) |
| Age, mean ± SD (range) in years | | 52.8±17.9 (25-91) |
| Cohabiting (%) | | 30 (63.8) |
| Smoking (%) | | 5 (10.6) |
| Years of formal education, mean ± SD (range) | | 14.5±2.8 (10-23) |
| Employment (%) | |  |
| Employed | 23 (42.6) |
| Student | 0 |
| Unemployed (health reason) | 4 (8.5) |
| Unemployed (other reason) | 3 (6.4) |
| Other | 17 (36.2) |
| Comorbidities (%) | |  |
| No medical history | 23 (47.9) |
| 1≥ comorbidities | 25 (52.1) |
| Time after trauma, mean ± SD (range) in months | | 5.6±3.7 (0-13) |
| Cause of trauma (%) | |  |
| Motor vehicle/traffic accident | 9 (19.1) |
| Falling | 21 (44.7) |
| Sports/recreation | 11 (23.4) |
| Violence | 4 (8.5) |
| Suicide attempt | 1 (2.1) |
| Other | 1 (2.1) |
| Treatment (%) | |  |
| Conservative | 27 (57.4) |
| Surgical | 20 (42.6) |
| ASIA impairment grade at discharge (%) | |  |
| C | 2 (4.3) |
| D | 9 (19.1) |
| E | 36 (76.6) |
| \* the percentage of each characteristic is based on the available total number of patients for the certain characteristic | | | |

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| **Appendix 4. Rotated factor analysis for the AOSpine PROST items among the two identified factors (Factor 1 and Factor 2) with Eigenvalue>1.** | | |
| **AOSpine PROST items** | **Factor 1** | **Factor 2** |
| 1. Household activities | 0.83367 | 0.35659 |
| 2. Work/study | 0.85111 | 0.15054 |
| 3. Recreation and leisure | 0.84662 | 0.18807 |
| 4. Social life | 0.76616 | 0.36305 |
| 5. Walking | 0.59537 | 0.59847 |
| 6. Travel | 0.80004 | 0.38024 |
| 7. Changing posture | 0.81159 | 0.35571 |
| 8. Maintaining posture | 0.89504 | 0.24297 |
| 9. Lifting and carrying | 0.90997 | 0.22223 |
| 10. Personal care | 0.66496 | 0.56981 |
| 11. Urinating | 0.14902 | 0.90285 |
| 12. Bowel movement | 0.14261 | 0.86975 |
| 13. Sexual function | 0.61443 | 0.64035 |
| 14. Emotional function | 0.62538 | 0.46904 |
| 15. Energy level | 0.83791 | 0.35961 |
| 16. Sleep | 0.69270 | 0.22164 |
| 17. Stiffness of your neck and/or back | 0.84462 | 0.24600 |
| 18. Loss of strength in your arms and/or legs | 0.72972 | 0.39919 |
| 19. Back and/or neck pain | 0.83589 | 0.19785 |
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