

Supplemental Material

APPENDIX 1: Construct validity hypotheses between groups of patients

Construct validity hypotheses between groups of patients	Difference	Confirmed yes/no
Patients that had a surgical complication were expected to have a higher score on the SMFA-NL <i>Problems with Daily Activities</i> subscale compared to patients that did not have a complication, of at least the standard error of measurement (5.03 points)	14.5 (63.1 vs 48.6)	Yes
Patients with an upper extremity injury and a surgical complication were expected to have a higher score on the SMFA-NL <i>Upper Extremity Dysfunction</i> subscale compared to patients that did not have a complication, of at least the standard error of measurement (6.28 points).	3.0 (28.0 vs 25.0)	No
Patients with a lower extremity injury and a surgical complication were expected to have a higher score on the SMFA-NL <i>Lower Extremity Dysfunction</i> subscale compared to patients that did not have a complication, of at least the standard error of measurement (3.97 points).	7.9 (51.6 vs 43.7)	Yes
Patients with a surgical complication were expected to have a higher score on the SMFA-NL <i>Mental and Emotional Problems</i> subscale compared to patients that did not have a complication, of at least the standard error of measurement (5.95 points).	7.7 (30.3 vs 22.6)	Yes
The mean difference in score on SMFA-NL <i>Upper Extremity Dysfunction</i> subscale, between patients with upper extremity injuries and patients without upper extremity injuries is expected to be at least the standard error of measurement (6.28 points).	20.5 (25.0 vs 4.5)	Yes
The mean difference in score on SMFA-NL <i>Lower Extremity Dysfunction subscale</i> , between patients with lower extremity injuries and patients without lower extremity injuries, is expected to be at least the standard error of measurement (3.97 points).	31.4 (45.5 vs 14.1)	Yes

APPENDIX 2: Discriminative hypotheses of change for responsiveness

Discriminative hypotheses for responsiveness	Correlation	Confirmed Yes/No
The absolute correlation of change on SMFA-NL <i>Upper Extremity Dysfunction</i> with change on Disabilities of Arm, Shoulder and Hand is at least 0.15 higher than the absolute correlation of change on SMFA-NL <i>Upper Extremity Dysfunction</i> subscale with Lower Extremity Functional Scale	0.37 vs 0.11	Yes
The absolute correlation of change on SMFA-NL <i>Lower Extremity Dysfunction</i> with change on Lower Extremity Functional Scale is at least 0.15 higher than the absolute correlation of change on SMFA-NL <i>Lower Extremity Dysfunction</i> subscale with Disabilities of Arm, Shoulder and Hand.	0.57 vs 0.65	No
The absolute correlation of absolute change on SMFA-NL <i>Problems with Daily Activities</i> with change on Health Utilities Index Multi Attribute Score is at least 0.15 higher than the absolute correlation of change on SMFA-NL <i>Problems with Daily Activities</i> with change on the pain in rest score.	0.47 vs 0.31	Yes
Difference in absolute correlation of change on SMFA-NL <i>Mental and Emotional Problems</i> with change on EQ-5D index score versus the absolute correlation of change on SMFA-NL <i>Mental and Emotional Problems</i> with change on Health Utilities Index 3 multi attribute function scale is between zero and 0.2.	0.34 vs 0.27	Yes
Difference in absolute correlation of change on SMFA-NL <i>Problems with Daily Activities</i> with change on EQ-5D index score versus the absolute correlation of change on SMFA-NL <i>Problems with daily activities</i> with change on Health Utilities Index 3 multi attribute function scale is between zero and 0.2.	0.62 vs 0.47	Yes
The mean difference in change on the SMFA-NL <i>Upper Extremity Difference</i> subscale between patients with upper extremity injuries and patients without upper extremity injuries is expected to be at least the standard error of measurement	12.9 vs 2.81	Yes
The mean difference in change on the SMFA-NL Lower Extremity Dysfunction subscale between patients with Lower extremity injuries and patients without Lower extremity injuries is expected to be at least the standard error of measurement	20.9 vs 7.8	Yes