### 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 *Problems with Daily Activities* subscale compared to patients that did not have a complication, of at least the standard error of measurement (5.03 points) | 14.5       | Yes              |
| (63.1 vs 48.6)                                                                                                          |            |                  |
| Patients with an upper extremity injury and a surgical complication were expected to have a higher score on the SMFA-NL *Upper Extremity Dysfunction* subscale compared to patients that did not have a complication, of at least the standard error of measurement (6.28 points). | 3.0        | No               |
| (28.0 vs 25.0)                                                                                                          |            |                  |
| Patients with a lower extremity injury and a surgical complication were expected to have a higher score on the SMFA-NL *Lower Extremity Dysfunction* subscale compared to patients that did not have a complication, of at least the standard error of measurement (3.97 points). | 7.9        | Yes              |
| (51.6 vs 43.7)                                                                                                          |            |                  |
| Patients with a surgical complication were expected to have a higher score on the SMFA-NL *Mental and Emotional Problems* subscale compared to patients that did not have a complication, of at least the standard error of measurement (5.95 points). | 7.7        | Yes              |
| (30.3 vs 22.6)                                                                                                          |            |                  |
| The mean difference in score on SMFA-NL *Upper Extremity Dysfunction* 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       | Yes              |
| (25.0 vs 4.5)                                                                                                          |            |                  |
| The mean difference in score on 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 (3.97 points). | 31.4       | Yes              |
| (45.5 vs 14.1)                                                                                                          |            |                  |
### APPENDIX 2: Discriminative hypotheses of change for responsiveness

| Discriminative hypotheses for responsiveness                                                                 | Correlation     | Confirmed Yes/No |
|----------------------------------------------------------------------------------------------------------------|-----------------|------------------|
| The absolute correlation of change on SMFA-NL *Upper Extremity Dysfunction* with change on Disabilities of Arm, Shoulder and Hand is at least 0.15 higher than the absolute correlation of change on SMFA-NL *Upper Extremity Dysfunction* subscale with Lower Extremity Functional Scale | 0.37 vs 0.11    | Yes              |
| The absolute correlation of change on SMFA-NL *Lower Extremity Dysfunction* with change on Lower Extremity Functional Scale is at least 0.15 higher than the absolute correlation of change on SMFA-NL *Lower Extremity Dysfunction* subscale with Disabilities of Arm, Shoulder and Hand. | 0.57 vs 0.65    | No               |
| The absolute correlation of absolute change on SMFA-NL *Problems with Daily Activities* with change on Health Utilities Index Multi Attribute Score is at least 0.15 higher than the absolute correlation of change on SMFA-NL *Problems with Daily Activities* with change on the pain in rest score. | 0.47 vs 0.31    | Yes              |
| Difference in absolute correlation of change on SMFA-NL *Mental and Emotional Problems* with change on EQ-5D index score versus the absolute correlation of change on SMFA-NL *Mental and Emotional Problems* 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 *Problems with Daily Activities* with change on EQ-5D index score versus the absolute correlation of change on SMFA-NL *Problems with daily activities* 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 *Upper Extremity Difference* 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              |