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**Statistical Analysis Plan**

**Study Title: Unilateral Strength Training and Mirror Therapy for Patients with Chronic Stroke: A Pilot Randomised Controlled**

**Trial** Document creation date: July 12th 2015

NCT number [not yet assigned].

Identifiers: [NCT ID not yet assigned]

**Statistical Analysis Plan for Unilateral Strength Training and Mirror Therapy for Patients with Chronic Stroke: A Pilot Randomised Controlled Trial (Daniel Simpson, IT Sligo)**

Data was analysed using IBM SPSS for Windows (Version 20, Chicago, IL, USA). All variables were tested for normal distribution using the Shapiro-Wilk test. Sample demographics and outcome measures are described in Mean±SD. Between group differences for demographic characteristics were tested for using the Independent t test, the Mann-Whiteny U test and the Chi Square test. Within group means (T1 v T2 and T1 v T3) were analysed using the Paired-Samples-t-test for normally distributed data and the Wilcoxon Signed Rank test for non-normally distributed data. Between group differences (ST v MST) in change over the intervention were tested for using the independent-sample-t-test (normal distribution) and the Mann-Whitney U test (non-normal distribution or non-continuous scale). A *p*-value <0.05 was considered statistically significant and effect sizes expressed as either Cohen's d or *r*. Effect size for within group differences were calculated as follows:

Paired differences effect size = $\frac{mean}{Sd}$ or $r = Z/\sqrt{n}.$ Effect sizes for between group differences for the independent-samples-t-test were calculated using and expressed as Cohen's d. For the Mann-Whitney U test, between group differences were calculated as $r = Z/\sqrt{n}.$