

## **Statistical Analysis Cover Page**

Official Title: Utilizing contrast enhanced ultrasound (CEUS) to assess critically hypo-perfused cord tissue after injury

Brief Title: tSCI Contrast Enhanced Ultrasound Study

NCT#: 04056988

Unique study ID: STUDY00003267

Date: 4/22/2025

## **Statistical analysis**

Data were analyzed using Excel (Microsoft), Prism 7 (GraphPad Software), and SPSS (28.0, IBM). Continuous variables are shown as means  $\pm$  SEM. Before all statistical testing, a Shapiro-Wilk analysis was performed to assess whether the data were normally distributed. To identify significant differences between patient cohorts, we performed the nonparametric Mann-Whitney U test. Pearson's correlation test was used for continuous and normally distributed variables. The coefficient of determination for the Pearson's correlation is denoted as  $r^2$ . Correlative analyses for CEUS imaging metrics and AIS grades were carried out using the Spearman's rank correlation test coefficient,  $r_s$ .  $P < 0.05$  was determined as statistically significant for all analyses.