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The data forms part of the PhD thesis entitled: Biomechanical Effects of Manual Therapy in Patients with Acute Non-specific Low Back Pain – A Feasibility Study

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Ideally, the methods of the thesis should be read before exploring the data provided. The data will make a lot more sense! In summary, the data analysis strategy for quantitative fluoroscopy data can be seen in Figure 1. The study included questionnaire data, the analysis of which has also been included.

Abbreviations used in the data spreadsheet:

Abbreviation	**Meaning**
_BL	Baseline measurement
_FU	Follow up Measurement
BQ	Bournemouth Questionnaire
IAR	Initial Attainment Rate (also called laxity)
ICC	Intra class correlation
IV-ROM	Intervertebral range of motion
MDC	Minimal Detectable Change
MSI	Motion Sharing Inequality
MSV	Motion Sharing Variability
MT	Manual Therapy
non-MT	Non-manual Therapy
NRS	Numerical Pain Rating Scale
NSLBP	Non-specific low back pain
Rec	Recumbent
RMDS-24	Roland Morris Disability Score 24
RoM	Range of Motion
SD	Standard Deviation
SEM	Standard Error of Measurement
SMT	Spinal Manipulative Therapy
VBU	Vertebral Body Units
WB	Weight Bearing

Baseline Data		**Follow Up Data**
MT Group	Within Group Related Samples Test: Wilcoxon Signed-rank Test →	MT Group

Between Group Independent Samples Test: Mann-Whitney U Test ↓	Change between Baseline and follow up of MT group (calculated by subtracting baseline from follow up measurements), and change between baseline and follow up of non-MT group:
	• Independent Samples Test: Mann-Whitney U Test
	• Calculate Minimal Detectable Change (MDC): Is the change between baseline and follow up greater than MDC?
	  ○ Calculate Intraclass Correlation Coefficient (ICC) for each group baseline vs. follow up
	  ○ Calculate Standard Error of Measurement (SEM) using the equation:
	  SEM = SD x √(1-ICC)
	  ○ Calculate MDC using the equation:
	  MDC = z-score (95% CI) x SEM x √2
	  (z-score is 1.960 for 95% CI)
	• Correlation statistics between variables: Spearman's rho or Kendall's Tau
		Between Group Independent Samples Test: Mann-Whitney U Test ↓

Non-MT Group	Within Group Related Samples Test: Wilcoxon Signed-rank Test →	Non-MT Group

Figure1: Data analysis strategy for data obtained using Quantitative Fluoroscopy.