

**Measuring the effect of using the Arabic Otago Exercise Program on falls and falls-related factors
in People with Multiple Sclerosis**

Date: March 23rd, 2021

NCT number: not assigned yet.

Statistical analysis

Demographics and health-related information will be presented using mean and standard deviation as well as frequency statistics. ANOVA statistics will be used to calculate the mean differences between and within groups. Statistical Package for the Social Sciences (SPSS) 23.0 (SPSS®: Inc., Chicago, IL, USA) will be used to analyze the results of the study.

A priori power analysis was conducted using the software package, GPower (Faul, Erdfelder, Buchner, & Lang, 2009) with a power of 0.8 and an alpha of 0.05 and an effect size of 0.8 for balance (Gunn, Markevics, Haas, Marsden, & Freeman, 2015). The analysis indicated that a total sample size of 42 participants in both groups (21 in each group) would be sufficient to evaluate the mean difference between groups. However, 50 participants will be recruited to take into considerations drop out incidences.