

Statistical analysis plan for:

Impact and interplay of corticosteroid regimen and exercise training on DMD muscle function

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Statistical analysis plan: Aim 1: This comparison is not a randomized comparison. As such, we will use a linear regression to test for the difference in the 12-month change in primary outcome measures between the twice-weekly-GC and daily-GC group adjusting for potential confounders (such as age at baseline). Depending on the range of NSAA scores, we will 'linearize' the scores using a logit transformation. Aim 2: Two comparisons will be made: 1) the 6-month change between the twice-weekly-GC + exercise group and twice-weekly-GC alone group will be compared using a t-test (this is a randomized comparison); and 2) whether exercise synergized more with the WE-CS group as compared to the daily-CS group will be assessed using linear regression to adjust for potential confounders (as in Aim 1 since this is also not a randomized comparison).