Scotoma Perimetry Oculomotor Training

Statistical Analysis Plan

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Statistical Analysis plan, August 24, 2026:

This R21 study enrolled a relatively small group of participants who differ greatly in their patterns of scotoma. The Statistical Analysis plan describes analyses of these data that compare the two training groups to each other. Though the groups were randomly assigned to training group, there is a great deal of variance between participants. These data can be used to identify effect sizes for future, more well-powered studies, and can be used to examine effects in individual participants.

For each test, we compared baseline values to post-test values (either at initial post-test or at long term follow up). Within-subject Students t-tests were used to compare pre-post values for post-test between groups. A second set of within-subject Students t-tests were used to compare pre-post values for long term follow up.

In the event of significance values (p-values) less than 0.05 (our set alpha threshold for significance), multiple comparisons correction using the Benjamini-Hochberg FDR method are to be applied for each primary outcome measure.