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**Project Number: P1372Salcedo**

**Project Title: Improvement in Mitral Regurgitation after MitraClip**

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**Methods**

Change in MR was divided into two groups: large (3 and 4 pt change) and small (1 and 2 pt change). Three geometric measures were examined: annular circumference, bi-commisural diameter, and antero-posterior diameter.

**Sentence for statistical section**:

Differences in the mean change of the geometric measures were compared between large (3-4 point change from pre-post) and small (1-2 point change) MR groups using two-sided, unequal variances t-tests with a 0.05 significance level.

**Results**

The dataset contained 60 individuals. 25 individuals were classified as having a large change in MR; 35 as a small change. Table 1 shows the results of the t-tests. Ultimately, none of the geometric measures had a significantly different mean change between the large and small MR change groups at the 0.05 significance level.

Table 1: Results for differences in mean change of geometric measure between large and small MR change groups.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Geometric Measure | Large MR change (Mean) | Small MR change group (Mean) | Mean Difference (95% CI) | P-value^ |
| Annular Circumference | -3.26 | -4.61 | 1.35 (-1.21, 3.91) | 0.29 |
| Bi-commisural Diameter | -1.02 | -1.95 | 0.92 (-0.06, 1.91) | 0.07 |
| Antero-Posterior Diameter | -2.73 | -3.11 | 0.38 (-0.69, 1.46) | 0.48 |

^Unequal variance t-test