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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. Differences in the mean change of the geometric measures were compared between the large and small MR groups using two-sample t-tests. A two-sided, unequal variances t-test with a 0.05 significance level was used.

**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: P-values and confidence intervals for two-sided, unequal variance t-tests for differences in mean change of geometric measure between large and small MR change groups.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Geometric Measure | Mean of large MR change group | Mean of small MR change group | Change in means | 95% CI for difference in mean change of measure | P-value |
| Annular Circumference | -3.256 | -4.609 | 1.353 | (-1.209, 3.914) | 0.294 |
| Bi-commisural Diameter | -1.024 | -1.946 | 0.922 | (-0.061, 1.905) | 0.065 |
| Antero-Posterior Diameter | -2.728 | -3.111 | 0.383 | (-0.690, 1.457) | 0.477 |