Will a current positive relationship between parent and child increase the enjoyment in the Stress Ball Balloon Activity?

**Findings**

**Variables**

The original variables are used from the Family Fun Time Activities Survey. The independent variable is the self-rating of the current relationship between parent and child on a scale from 1-10. The dependent variable is the family’s enjoyment of the Stress Ball Balloon Activity on a scale from 1-10. The following statistic models include; Chi Squared, Pearson’s Correlation, and Regression. All of the models data was created through R-Studio.

**Statistical Models**

 **Chi Squared.** In Table 1, the *Chi Squared Test: Level of Family Enjoyment Based on the Parent/Child Relationship,* the table shows the level of family enjoyment based on the parent/child relationship. In table 2, *Chi Squared Test*, the chi squared is 22.965 and the degree of freedom is 21. The level of significance at the .05 level is 32.671 and at the .01 level as 38.937. The p-value (0.3459) is smaller than the critical value. Due to this, we would reject the null hypothesis that there are no significant differences between a parent/child relationship and the enjoyment of the Stress Ball Balloon Activity.

Table 1

*Chi Squared: Level of Family Enjoyment Based on the Parent/Child Relationship*

 Enjoyment Levels of the Stress Ball Balloon Activity

 0 3 5 6 7 8 9 10

Parents’ rate their 0 0 0 0 0 0 0 1

current relationship

with their child/

children

a 7 out of 10.

Parents’ rate their 0 0 0 0 1 1 0 2

current relationship

with their child/

children

a 8 out of 10.

Parents’ rate their 1 1 1 0 0 0 1 1

current relationship

with their child/

children

a 9 out of 10.

Parents’ rate their

current relationship 0 0 1 1 4 3 2 19

with their child/

children

a 10 out of 10.

*Note*: p<.05\*, p<.01\*\*, p<.001\*\*\*

Table 2

*Chi Squared Test*

 Chi Square Statistic Degrees of Freedom P-Value

 22.965 21 0.3459

**Pearson’s Correlation.** How effective the activity was in creating enjoyment was predicted by the current relationship between parent and child. Both of the variable were asked on a scale from 0-10. Findings indicated that there is a weak positive correlation (r=0.1492995) between enjoyment and the current relationship between parent and child. The findings mean that when the parent and child has a positive relationship, the activity is more enjoyable. The researcher does not know if the findings here would be true in a larger population.

**Regression**. I hypothesized that families who have a better relationship would have more enjoyment in the Stress Ball Balloon Activity. Otherwise stated, the self-ranking of family relationship influence involvement in an activity.

Parents’ selection of their relationship with their child increases 0.05157 units for every one-unit decrease in how much enjoyment there was creating the Stress Ball Balloon Activity. Thus, the relationship is positively related. With this being said, the finding is significant (p=0.36). The R² statistic is 0.2229 which means the model explains 2.2 percent of the variation of the family’s enjoyment in the activity. A relationship can be discerned between self-ranking relationship and the enjoyment of the Stress Ball Balloon Activity.

Table 3

*Regression Test*

Estimated Units P-value R²

 0.05157 0.36 0.2229

**Conclusion**

Each statistic model has gathered information using the independent and dependent variables. The independent variable is the self-rating of the current relationship between parent and child. The dependent variable is the family’s enjoyment of the Stress Ball Balloon Activity. In the Chi-Squared model, the overall finding concluded that there are no significant differences between a parent/child relationship and the enjoyment of the Stress Ball Balloon Activity. In Pearson’s Correlation model, the findings concluded that when parents and children have a positive relationship, the activity is more enjoyable. In the Regression model, the findings concluded that there is a positive correlation between a parent/child relationship. Overall, the findings are important in showing positive parent/child relationship and activity enjoyment are related.