## Appendix A - Children Under 8 Years

**Statistics**

| | | Gender | Other_Allergies |
|---|---|---|---|
| N | Valid | 63 | 63 |
| | Missing | 2 | 2 |

## Frequency Table

**Gender**

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Boy | 41 | 63.1 | 65.1 | 65.1 |
| | Girl | 22 | 33.8 | 34.9 | 100.0 |
| | Total | 63 | 96.9 | 100.0 | |
| Missing | | 2 | 3.1 | | |
| Total | | 65 | 100.0 | | |

**Other Allergies**

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 54 | 83.1 | 85.7 | 85.7 |
| | No | 9 | 13.8 | 14.3 | 100.0 |
| | Total | 63 | 96.9 | 100.0 | |
| Missing | System | 2 | 3.1 | | |
| Total | | 65 | 100.0 | | |

```
CROSSTABS
  /TABLES=Gender BY Other_Allergies
  /SHOWDIM=2
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ D
  /CELLS=COUNT COLUMN
  /COUNT ROUND CELL.
```

## Crosstabs

## Case Processing Summary

| | Cases | | | | | |
|---|---|---|---|---|---|---|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Gender * Other_Allergies | 63 | 96.9% | 2 | 3.1% | 65 | 100.0% |

## Gender * Other Allergies Crosstabulation

| | | | Other_Allergies | | |
|---|---|---|---|---|---|
| | | | Yes | No | Total |
| Gender | Boy | Count | 37 | 4 | 41 |
| | | % within Other_Allergies | 68.5% | 44.4% | 65.1% |
| | Girl | Count | 17 | 5 | 22 |
| | | % within Other_Allergies | 31.5% | 55.6% | 34.9% |
| Total | | Count | 54 | 9 | 63 |
| | | % within Other_Allergies | 100.0% | 100.0% | 100.0% |

## Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) | Exact Sig. (2-sided) | Exact Sig. (1-sided) |
|---|---|---|---|---|---|
| Pearson Chi-Square | 1.967[a] | 1 | .161 | | |
| Continuity Correction[b] | 1.051 | 1 | .305 | | |
| Likelihood Ratio | 1.878 | 1 | .171 | | |
| Fisher's Exact Test | | | | .256 | .153 |
| Linear-by-Linear Association | 1.936 | 1 | .164 | | |
| N of Valid Cases | 63 | | | | |

a. 1 cells (25.0%) have expected count less than 5. The minimum expected count is 3.14.

b. Computed only for a 2x2 table

### Directional Measures

| | | | Value | Asymptotic Standard Error[a] | Approximate T[b] |
|---|---|---|---|---|---|
| Ordinal by Ordinal | Somers' d | Symmetric | .169 | .126 | 1.282 |
| | | Gender Dependent | .241 | .177 | 1.282 |
| | | Other_Allergies Dependent | .130 | .101 | 1.282 |

### Directional Measures

| | | | Approximate Significance |
|---|---|---|---|
| Ordinal by Ordinal | Somers' d | Symmetric | .200 |
| | | Gender Dependent | .200 |
| | | Other_Allergies Dependent | .200 |

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

## Crosstabs - Co-Morbidity to All Three Allergic Conditions [hay fever ; asthma and eczema ] by Gender

## Comparison of proportions calculator

**Sample 1**

Proportion (%): 24.4

Sample size: 41

**Sample 2**

Proportion (%): 13.6

Sample size: 22

**Results**

| | |
|---|---|
| Difference | 10.8 % |
| 95% CI | -11.5486% to 28.1867% |
| Chi-squared | 1.004 |
| DF | 1 |
| Significance level | P = 0.3164 |

## Frequencies

**Statistics**

| | | Peanut | Tree_Nuts | Egg | Soy | Dairy | Seafood | Wheat |
|---|---|---|---|---|---|---|---|---|
| N | Valid | 45 | 49 | 34 | 6 | 23 | 13 | 8 |
| | Missing | 20 | 16 | 31 | 59 | 42 | 52 | 57 |

| Statistics | | | | | |
|---|---|---|---|---|---|
| | | Sesame_seeds | Kiwi | Other_Allergens | Number_of_Allergens |
| N | Valid | 6 | 5 | 13 | 65 |
| | Missing | 59 | 60 | 52 | 0 |

## Frequency Table

| Peanut | | | | | |
|---|---|---|---|---|---|
| | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Yes | 45 | 69.2 | 100.0 | 100.0 |
| Missing | System | 20 | 30.8 | | |
| Total | | 65 | 100.0 | | |

| Tree Nuts | | | | | |
|---|---|---|---|---|---|
| | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Yes | 49 | 75.4 | 100.0 | 100.0 |
| Missing | System | 16 | 24.6 | | |
| Total | | 65 | 100.0 | | |

| Egg | | | | | |
|---|---|---|---|---|---|
| | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Yes | 34 | 52.3 | 100.0 | 100.0 |
| Missing | System | 31 | 47.7 | | |
| Total | | 65 | 100.0 | | |

| Soy | | | | | |
|---|---|---|---|---|---|
| | | Frequency | Percent | Valid Percent | Cumulative Percent |
| Valid | Yes | 6 | 9.2 | 100.0 | 100.0 |
| Missing | System | 59 | 90.8 | | |
| Total | | 65 | 100.0 | | |

## Dairy

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 23 | 35.4 | 100.0 | 100.0 |
| Missing | System | 42 | 64.6 | | |
| Total | | 65 | 100.0 | | |

## Seafood

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 13 | 20.0 | 100.0 | 100.0 |
| Missing | System | 52 | 80.0 | | |
| Total | | 65 | 100.0 | | |

## Wheat

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 8 | 12.3 | 100.0 | 100.0 |
| Missing | System | 57 | 87.7 | | |
| Total | | 65 | 100.0 | | |

## Sesame seeds

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 6 | 9.2 | 100.0 | 100.0 |
| Missing | System | 59 | 90.8 | | |
| Total | | 65 | 100.0 | | |

## Kiwi

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 5 | 7.7 | 100.0 | 100.0 |
| Missing | System | 60 | 92.3 | | |
| Total | | 65 | 100.0 | | |

**Other Allergens**

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | 1 Other | 9 | 13.8 | 69.2 | 69.2 |
| | 2 Other | 2 | 3.1 | 15.4 | 84.6 |
| | Other | 1 | 1.5 | 7.7 | 92.3 |
| | 4+Other | 1 | 1.5 | 7.7 | 100.0 |
| | Total | 13 | 20.0 | 100.0 | |
| Missing | System | 52 | 80.0 | | |
| Total | | 65 | 100.0 | | |

**Number of Allergens**

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | 1 Allergen | 15 | 23.1 | 23.1 | 23.1 |
| | 2 - 3 Allergens | 23 | 35.4 | 35.4 | 58.5 |
| | 4 Allergens or More | 27 | 41.5 | 41.5 | 100.0 |
| | Total | 65 | 100.0 | 100.0 | |

## Crosstabs

[Children Under 8 Years - Co-Morbidity to Allergic Rhinitis, Asthma and Eczema

**Case Processing Summary**

| | Cases | | | | | |
|---|---|---|---|---|---|---|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Gender * Atopic | 63 | 98.4% | 1 | 1.6% | 64 | 100.0% |

**Gender * Atopic Crosstabulation**

Count

| | | Atopic | | |
|---|---|---|---|---|
| | | yes | no | Total |
| Gender | Boys | 10 | 31 | 41 |
| | Girls | 3 | 19 | 22 |
| Total | | 13 | 50 | 63 |

## Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) | Exact Sig. (2-sided) | Exact Sig. (1-sided) |
|---|---|---|---|---|---|
| Pearson Chi-Square | 1.011[a] | 1 | .315 | | |
| Continuity Correction[b] | .461 | 1 | .497 | | |
| Likelihood Ratio | 1.064 | 1 | .302 | | |
| Fisher's Exact Test | | | | .515 | .253 |
| Linear-by-Linear Association | .995 | 1 | .319 | | |
| N of Valid Cases | 63 | | | | |

a. 1 cells (25.0%) have expected count less than 5. The minimum expected count is 4.54.

b. Computed only for a 2x2 table

## Directional Measures

| | | | Value | Asymptotic Standard Error[a] | Approximate T[b] |
|---|---|---|---|---|---|
| Ordinal by Ordinal | Somers' d | Symmetric | .125 | .114 | 1.079 |
| | | Gender Dependent | .149 | .136 | 1.079 |
| | | Atopic Dependent | .108 | .099 | 1.079 |

## Directional Measures

| | | | Approximate Significance |
|---|---|---|---|
| Ordinal by Ordinal | Somers' d | Symmetric | .280 |
| | | Gender Dependent | .280 |
| | | Atopic Dependent | .280 |

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

**Symmetric Measures**

| | | Value | Asymptotic Standard Error[a] | Approximate T[b] | Approximate Significance |
|---|---|---|---|---|---|
| Interval by Interval | Pearson's R | .127 | .115 | .997 | .322[c] |
| Ordinal by Ordinal | Spearman Correlation | .127 | .115 | .997 | .322[c] |
| N of Valid Cases | | 63 | | | |

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

c. Based on normal approximation.

```
FREQUENCIES VARIABLES=Miss_Friends_Birthdays Parents_Fuss Feel_Different_to_Friends
    Get_Upset_Not_Able_to_Eat_Certain_Foods Attend_Specialist
  /BARCHART FREQ
  /ORDER=ANALYSIS.
```

## Frequencies

**Statistics**

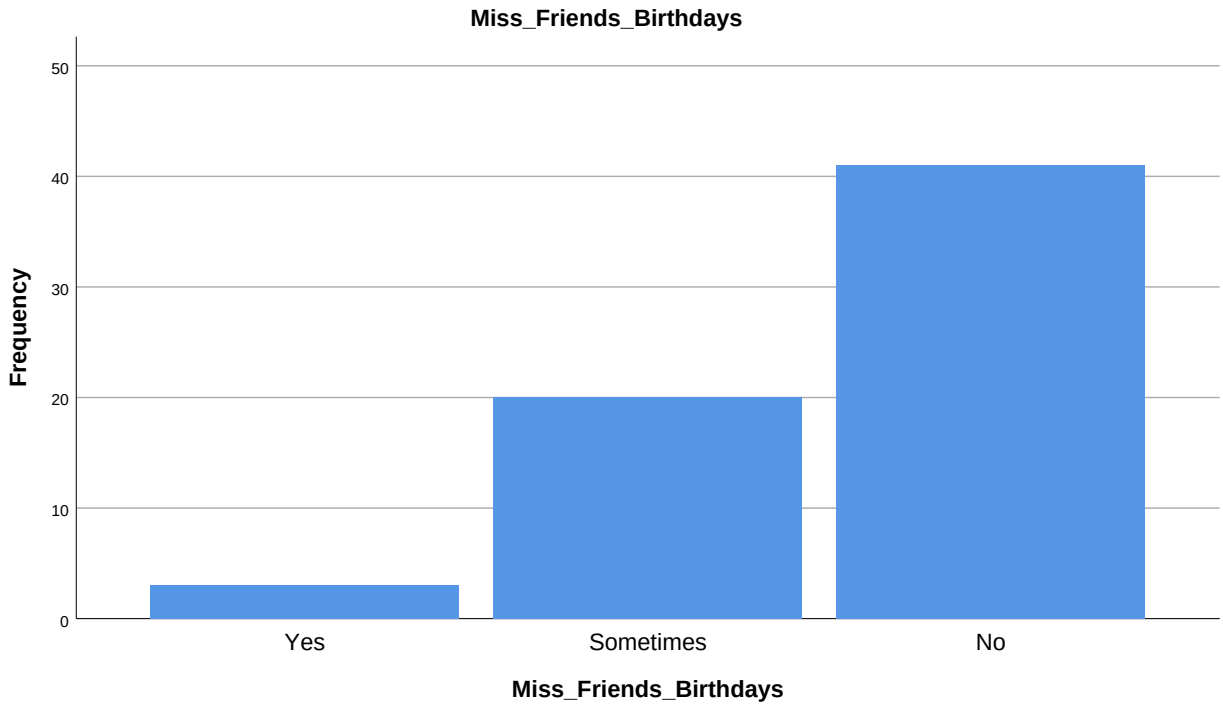
| | | Miss_Friends_Birthdays | Parents_Fuss | Feel_Different_to_Friends | Get_Upset_Not_Able_to_Eat_Certain_Foods | Attend_Specialist |
|---|---|---|---|---|---|---|
| N | Valid | 64 | 64 | 64 | 64 | 65 |
| | Missing | 1 | 1 | 1 | 1 | 0 |

## Frequency Table

**Miss Friends Birthdays**

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 3 | 4.6 | 4.7 | 4.7 |
| | Sometimes | 20 | 30.8 | 31.3 | 35.9 |
| | No | 41 | 63.1 | 64.1 | 100.0 |
| | Total | 64 | 98.5 | 100.0 | |
| Missing | 99 | 1 | 1.5 | | |
| Total | | 65 | 100.0 | | |

## Bar Chart




```
CROSSTABS
  /TABLES=Miss_Friends_BirthdaysBY Gender BY Group
  /SHOWDIM=2
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ D
  /CELLS=COUNT COLUMN
  /COUNT ROUND CELL.
```

# Crosstabs

## Case Processing Summary

| | Cases | | | | | |
|---|---|---|---|---|---|---|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Miss_Friends_Birthdays * Gender * Group | 63 | 96.9% | 2 | 3.1% | 65 | 100.0% |

## Miss Friends' Birthdays * Gender * Group Crosstabulation

Group: Total

| | | | Gender | | |
|---|---|---|---|---|---|
| | | | Boy | Girl | Total |
| Miss_Friends_Birthdays | Yes | Count | 2 | 1 | 3 |
| | | % within Gender | 4.9% | 4.5% | 4.8% |
| | Sometimes | Count | 15 | 4 | 19 |
| | | % within Gender | 36.6% | 18.2% | 30.2% |
| | No | Count | 24 | 17 | 41 |
| | | % within Gender | 58.5% | 77.3% | 65.1% |
| Total | | Count | 41 | 22 | 63 |
| | | % within Gender | 100.0% | 100.0% | 100.0% |

## Chi-Square Tests

| Group | | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|---|
| Under 8 Years | Pearson Chi-Square | 2.384[a] | 2 | .304 |
| | Likelihood Ratio | 2.503 | 2 | .286 |
| | Linear-by-Linear Association | 1.531 | 1 | .216 |
| | N of Valid Cases | 63 | | |
| Total | Pearson Chi-Square | 2.384[a] | 2 | .304 |
| | Likelihood Ratio | 2.503 | 2 | .286 |
| | Linear-by-Linear Association | 1.531 | 1 | .216 |
| | N of Valid Cases | 63 | | |

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is 1.05.

### Directional Measures

| Group | | Value | Asymptotic Standard Error[a] | Approximate T[b] | Approximate Significance |
|---|---|---|---|---|---|
| Under 8 Years | | .174 | .117 | 1.477 | .140 |
| | | .180 | .121 | 1.477 | .140 |
| | | .169 | .114 | 1.477 | .140 |

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

```
CROSSTABS
  /TABLES=Miss_Friends_BirthdaysBY Feel_Different_to_Friends
  /SHOWDIM=2
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ D
  /CELLS=COUNT COLUMN
  /COUNT ROUND CELL.
```

## Crosstabs

### Case Processing Summary

| | Cases | | | | | |
|---|---|---|---|---|---|---|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Miss_Friends_Birthdays * Feel_Different_to_Friends | 64 | 98.5% | 1 | 1.5% | 65 | 100.0% |

## Miss Friends Birthdays * Feel Different to Friends Crosstabulation

| | | | Feel_Different_to_Friends | | |
|---|---|---|---|---|---|
| | | | Yes | Sometimes | No |
| Miss_Friends_Birthdays | Yes | Count | 3 | 0 | 0 |
| | | % within Feel_Different_to_Friends | 12.5% | 0.0% | 0.0% |
| | Sometimes | Count | 9 | 6 | 5 |
| | | % within Feel_Different_to_Friends | 37.5% | 31.6% | 23.8% |
| | No | Count | 12 | 13 | 16 |
| | | % within Feel_Different_to_Friends | 50.0% | 68.4% | 76.2% |
| Total | | Count | 24 | 19 | 21 |
| | | % within Feel_Different_to_Friends | 100.0% | 100.0% | 100.0% |

## Miss Friends Birthdays * Feel Different to Friends Crosstabulation

| | | | Total |
|---|---|---|---|
| Miss_Friends_Birthdays | Yes | Count | 3 |
| | | % within Feel_Different_to_Friends | 4.7% |
| | Sometimes | Count | 20 |
| | | % within Feel_Different_to_Friends | 31.3% |
| | No | Count | 41 |
| | | % within Feel_Different_to_Friends | 64.1% |
| Total | | Count | 64 |
| | | % within Feel_Different_to_Friends | 100.0% |

## Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 6.952[a] | 4 | .138 |
| Likelihood Ratio | 7.884 | 4 | .096 |
| Linear-by-Linear Association | 5.052 | 1 | .025 |
| N of Valid Cases | 64 | | |

a. 3 cells (33.3%) have expected count less than 5. The minimum expected count is .89.

## Directional Measures

| | | | Value | Asymptotic Standard Error[a] | Approximate T[b] |
|---|---|---|---|---|---|
| Ordinal by Ordinal | Somers' d | Symmetric | .237 | .109 | 2.119 |
| | | Miss_Friends_Birthdays Dependent | .206 | .097 | 2.119 |
| | | Feel_Different_to_Friends Dependent | .279 | .126 | 2.119 |

## Directional Measures

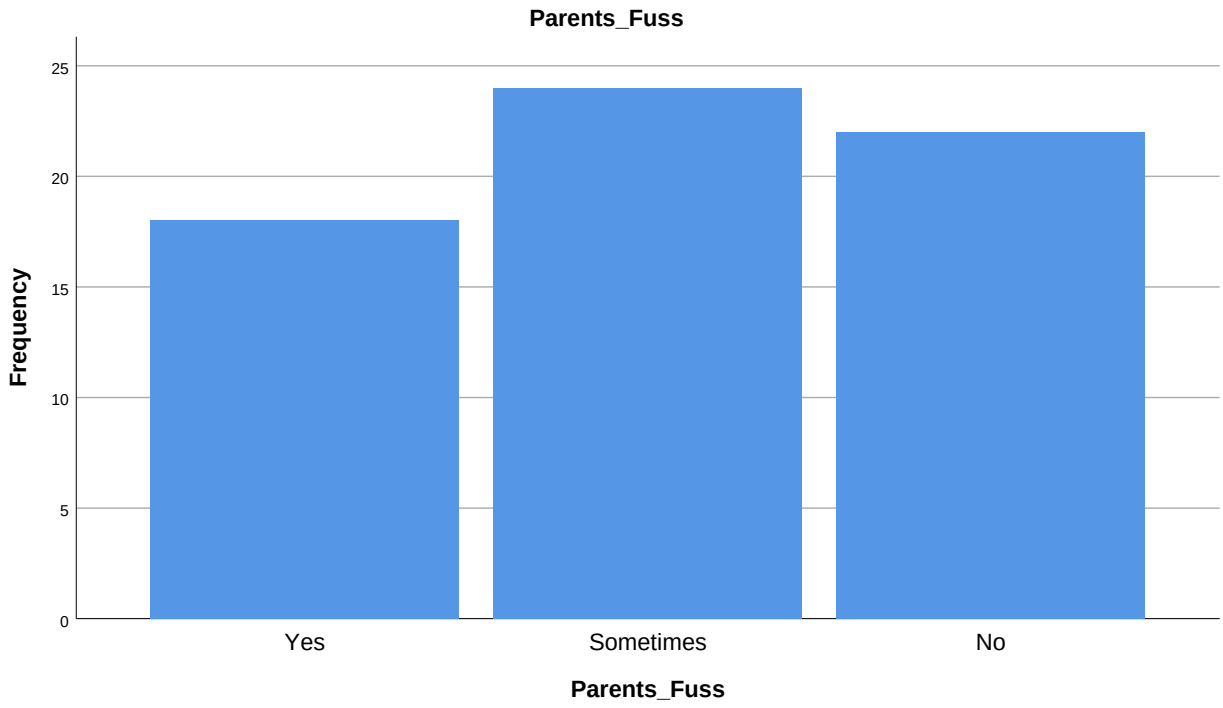
| | | | Approximate Significance |
|---|---|---|---|
| Ordinal by Ordinal | Somers' d | Symmetric | .034 |
| | | Miss_Friends_Birthdays Dependent | .034 |
| | | Feel_Different_to_Friends Dependent | .034 |

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

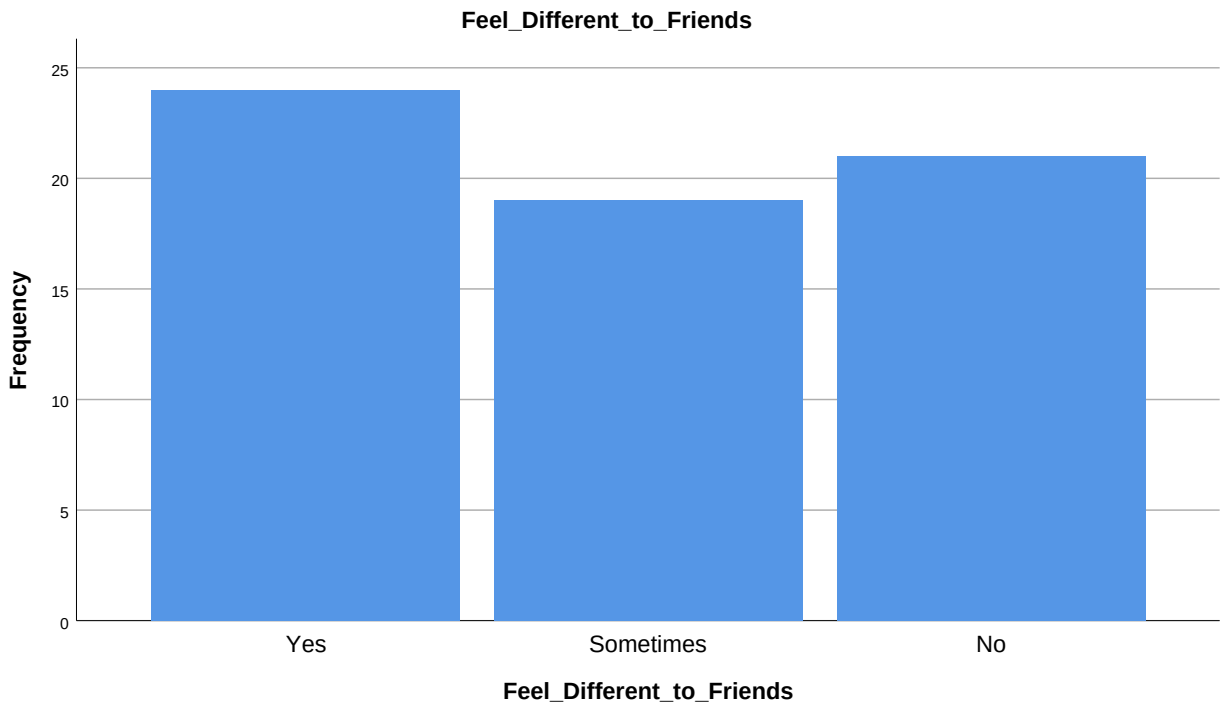
## Parents Fuss

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 18 | 27.7 | 28.1 | 28.1 |
| | Sometimes | 24 | 36.9 | 37.5 | 65.6 |
| | No | 22 | 33.8 | 34.4 | 100.0 |
| | Total | 64 | 98.5 | 100.0 | |
| Missing | 99 | 1 | 1.5 | | |
| Total | | 65 | 100.0 | | |




## Feel Different to Friends

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 24 | 36.9 | 37.5 | 37.5 |
| | Sometimes | 19 | 29.2 | 29.7 | 67.2 |
| | No | 21 | 32.3 | 32.8 | 100.0 |
| | Total | 64 | 98.5 | 100.0 | |
| Missing | 99 | 1 | 1.5 | | |
| Total | | 65 | 100.0 | | |




```
CROSSTABS
  /TABLES=Feel_Different_to_Friends BY Parents_Fuss
  /SHOWDIM=2
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ D
  /CELLS=COUNT COLUMN
  /COUNT ROUND CELL.
```

# Crosstabs

## Case Processing Summary

| | Cases | | | | | |
|---|---|---|---|---|---|---|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Feel_Different_to_Friends * Parents_Fuss | 64 | 98.5% | 1 | 1.5% | 65 | 100.0% |

## Feel Different to Friends * Parents Fuss Crosstabulation

| | | | Parents_Fuss | | |
|---|---|---|---|---|---|
| | | | Yes | Sometimes | No |
| Feel_Different_to_Friends | Yes | Count | 11 | 9 | 4 |
| | | % within Parents_Fuss | 61.1% | 37.5% | 18.2% |
| | Sometimes | Count | 6 | 8 | 5 |
| | | % within Parents_Fuss | 33.3% | 33.3% | 22.7% |
| | No | Count | 1 | 7 | 13 |
| | | % within Parents_Fuss | 5.6% | 29.2% | 59.1% |
| Total | | Count | 18 | 24 | 22 |
| | | % within Parents_Fuss | 100.0% | 100.0% | 100.0% |

## Feel Different to Friends * Parents Fuss Crosstabulation

| | | | Total |
|---|---|---|---|
| Feel_Different_to_Friends | Yes | Count | 24 |
| | | % within Parents_Fuss | 37.5% |
| | Sometimes | Count | 19 |
| | | % within Parents_Fuss | 29.7% |
| | No | Count | 21 |
| | | % within Parents_Fuss | 32.8% |
| Total | | Count | 64 |
| | | % within Parents_Fuss | 100.0% |

## Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 14.215[a] | 4 | .007 |
| Likelihood Ratio | 15.618 | 4 | .004 |
| Linear-by-Linear Association | 13.007 | 1 | .000 |
| N of Valid Cases | 64 | | |

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 5.34.

## Directional Measures

| | | | Value | Asymptotic Standard Error[a] | Approximate T[b] |
|---|---|---|---|---|---|
| Ordinal by Ordinal | Somers' d | Symmetric | .405 | .093 | 4.328 |
| | | Feel_Different_to_Friends Dependent | .406 | .093 | 4.328 |
| | | Parents_Fuss Dependent | .405 | .094 | 4.328 |

## Directional Measures

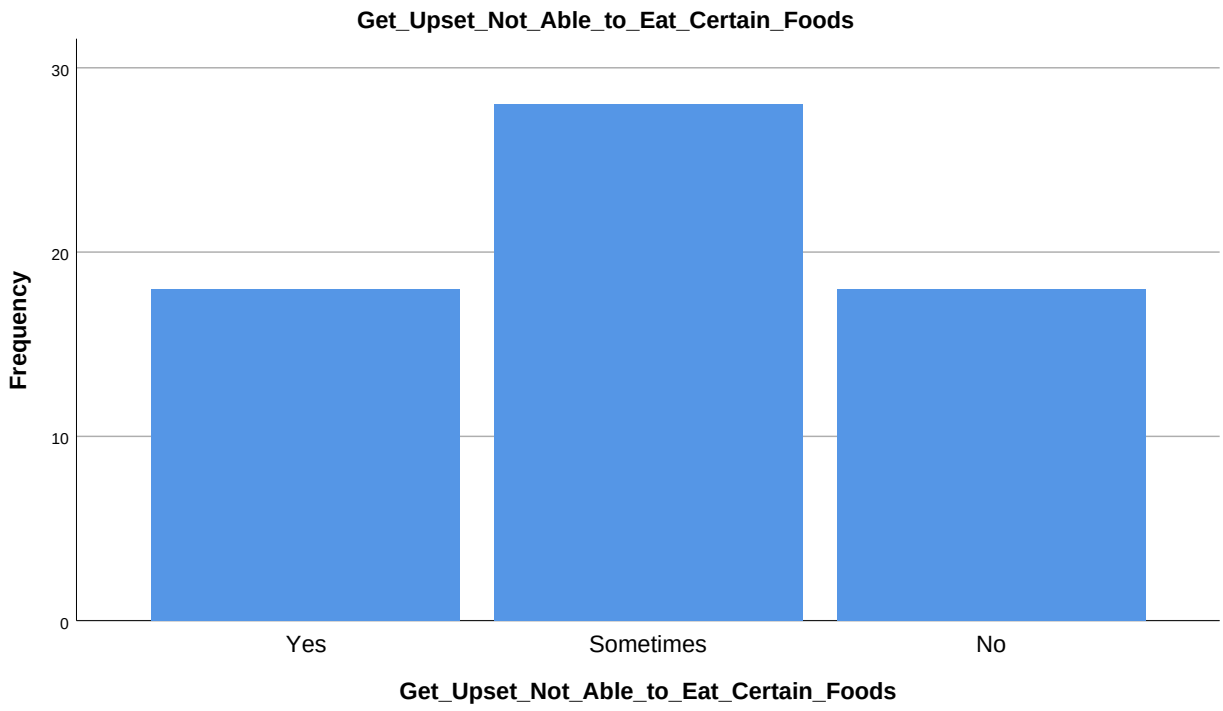
| | | | Approximate Significance |
|---|---|---|---|
| Ordinal by Ordinal | Somers' d | Symmetric | .000 |
| | | Feel_Different_to_Friends Dependent | .000 |
| | | Parents_Fuss Dependent | .000 |

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

## Get Upset Not Able to Eat Certain Foods

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 18 | 27.7 | 28.1 | 28.1 |
| | Sometimes | 28 | 43.1 | 43.8 | 71.9 |
| | No | 18 | 27.7 | 28.1 | 100.0 |
| | Total | 64 | 98.5 | 100.0 | |
| Missing | 99 | 1 | 1.5 | | |
| Total | | 65 | 100.0 | | |




```
CROSSTABS
  /TABLES=Get_Upset_Not_Able_to_Eat_Certain_Foods BY Gender
  /SHOWDIM=2
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ D
  /CELLS=COUNT COLUMN
  /COUNT ROUND CELL.
```

# Crosstabs

## Case Processing Summary

| | Cases | | | | | |
|---|---|---|---|---|---|---|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Get_Upset_Not_Able_to_Eat_Certain_Foods * Gender | 63 | 96.9% | 2 | 3.1% | 65 | 100.0% |

## Get Upset Not Able to Eat Certain Foods * Gender Crosstabulation

| | | | Gender | | |
|---|---|---|---|---|---|
| | | | Boy | Girl | Total |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | Yes | Count | 11 | 7 | 18 |
| | | % within Gender | 26.8% | 31.8% | 28.6% |
| | Sometimes | Count | 20 | 7 | 27 |
| | | % within Gender | 48.8% | 31.8% | 42.9% |
| | No | Count | 10 | 8 | 18 |
| | | % within Gender | 24.4% | 36.4% | 28.6% |
| Total | | Count | 41 | 22 | 63 |
| | | % within Gender | 100.0% | 100.0% | 100.0% |

## Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 1.804[a] | 2 | .406 |
| Likelihood Ratio | 1.825 | 2 | .401 |
| Linear-by-Linear Association | .120 | 1 | .729 |
| N of Valid Cases | 63 | | |

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 6.29.

## Directional Measures

| | | | Value | Asymptotic Standard Error[a] | Approximate T[b] |
|---|---|---|---|---|---|
| Ordinal by Ordinal | Somers' d | Symmetric | .041 | .123 | .332 |
| | | Get_Upset_Not_Able_to_Eat_Certain_Foods Dependent | .050 | .150 | .332 |
| | | Gender Dependent | .035 | .104 | .332 |

## Directional Measures

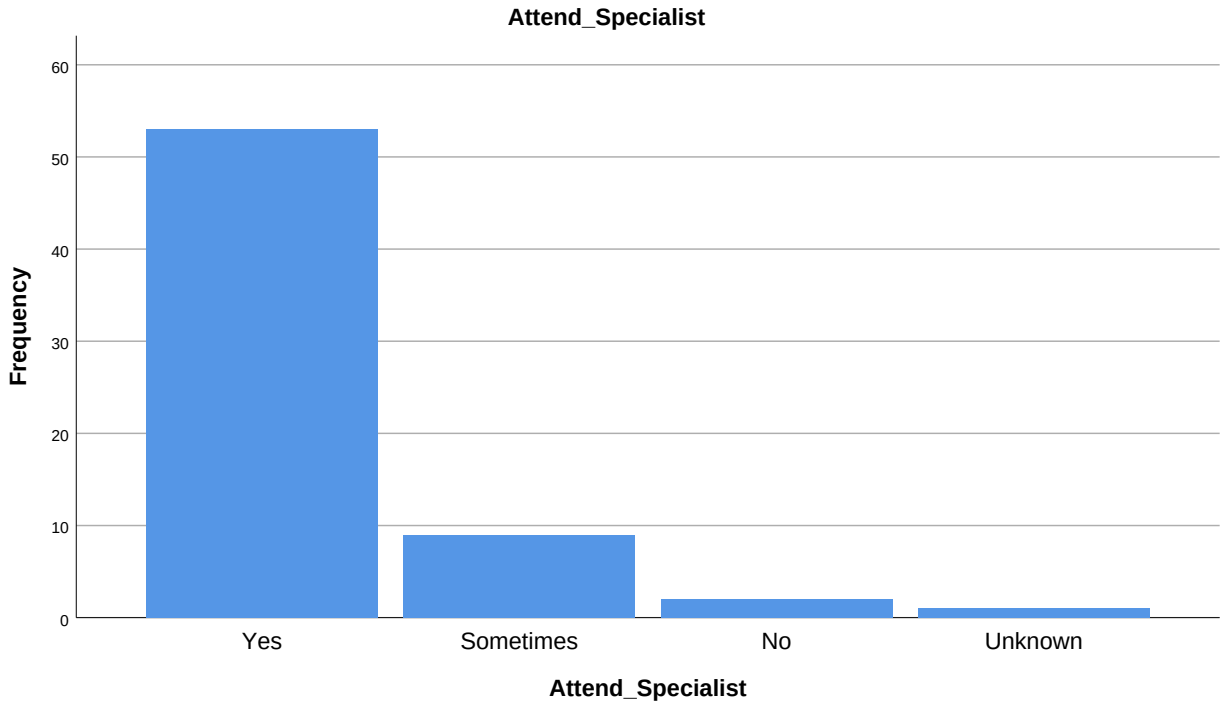
| | | | Approximate Significance |
|---|---|---|---|
| Ordinal by Ordinal | Somers' d | Symmetric | .740 |
| | | Get_Upset_Not_Able_to_Eat_Certain_Foods Dependent | .740 |
| | | Gender Dependent | .740 |

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

## Attend Specialist

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 53 | 81.5 | 81.5 | 81.5 |
| | Sometimes | 9 | 13.8 | 13.8 | 95.4 |
| | No | 2 | 3.1 | 3.1 | 98.5 |
| | 99 | 1 | 1.5 | 1.5 | 100.0 |
| | Total | 65 | 100.0 | 100.0 | |



```
NPAR TESTS
  /CHISQUARE=Miss_Friends_BirthdaysParents_Fuss Feel_Different_to_Friends
    Get_Upset_Not_Able_to_Eat_Certain_Foods
  /EXPECTED=EQUAL
  /MISSING ANALYSIS.
```

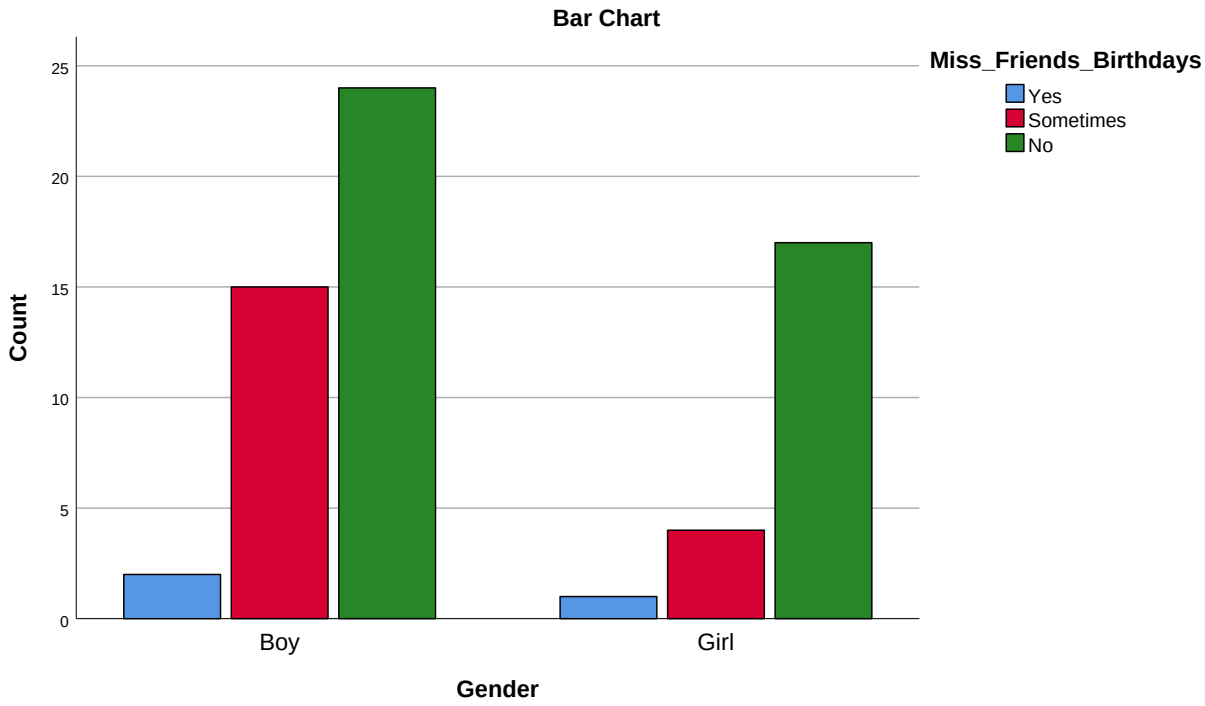
## NPar Tests

## Chi-Square Test - Equal Distribution

## Frequencies

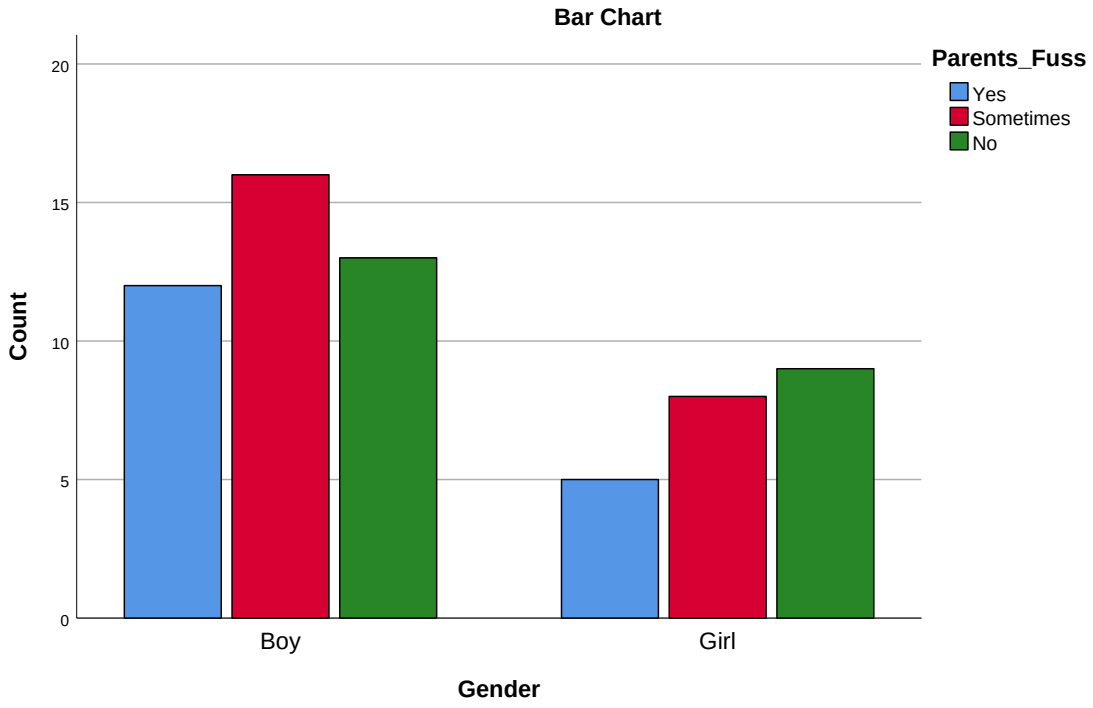
**Miss Friends' Birthdays**

| | Observed N | Expected N | Residual |
|---|---|---|---|
| Yes | 3 | 21.3 | -18.3 |
| Sometimes | 20 | 21.3 | -1.3 |
| No | 41 | 21.3 | 19.7 |
| Total | 64 | | |



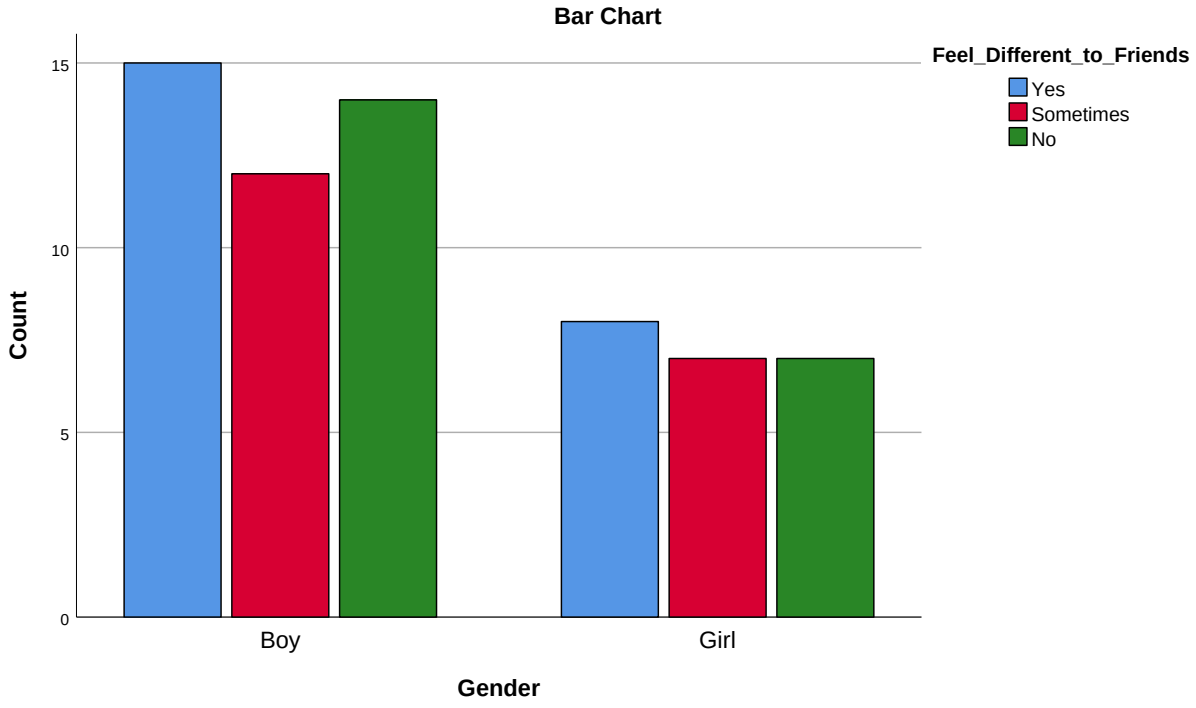
## Parents Fuss

| | Observed N | Expected N | Residual |
|---|---|---|---|
| Yes | 18 | 21.3 | -3.3 |
| Sometimes | 24 | 21.3 | 2.7 |
| No | 22 | 21.3 | .7 |
| Total | 64 | | |




## Feel Different to Friends

| | Observed N | Expected N | Residual |
|---|---|---|---|
| Yes | 24 | 21.3 | 2.7 |
| Sometimes | 19 | 21.3 | -2.3 |
| No | 21 | 21.3 | -.3 |
| Total | 64 | | |




## Get Upset Not Able to Eat Certain Foods

| | Observed N | Expected N | Residual |
|---|---|---|---|
| Yes | 18 | 21.3 | -3.3 |
| Sometimes | 28 | 21.3 | 6.7 |
| No | 18 | 21.3 | -3.3 |
| Total | 64 | | |

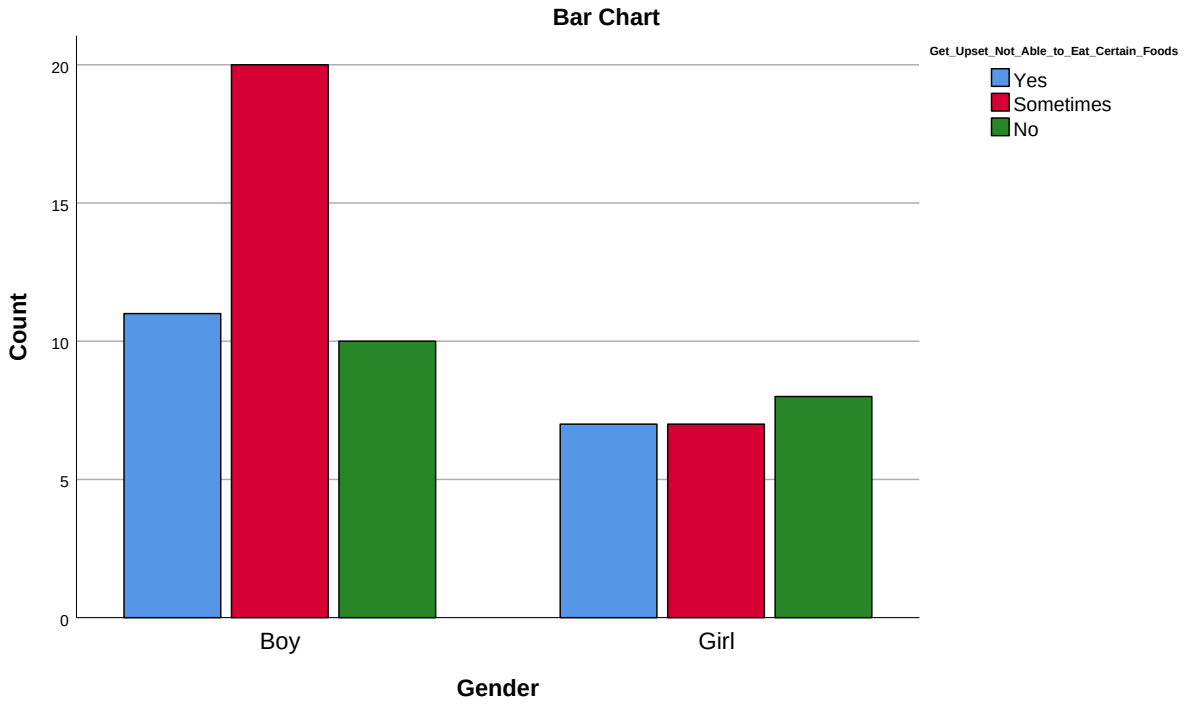



**Table 4.1: Equal Distribution**

| | Miss Friend's Birthdays | Parents Fuss | Feel Different to Friends | Get Upset Not Able to Eat Certain Foods |
|---|---|---|---|---|
| Chi-Square | 33.969[a] | .875[a] | .594[a] | 3.125[a] |
| df | 2 | 2 | 2 | 2 |
| Asymp. Sig. | .000 | .646 | .743 | .210 |

a. 0 cells (.0%) have expected frequencies less than 5. The minimum expected cell frequency is 21.3.

```
NPAR TESTS
 /CHISQUARE=Miss_Friends_BirthdaysParents_Fuss Feel_Different_to_Friends
   Get_Upset_Not_Able_to_Eat_Certain_Foods
 /EXPECTED=7 13 44
 /MISSING ANALYSIS.
```

## Chi-Square Test - QoL Impact

## Frequencies

**Miss Friends' Birthdays**

| | Observed N | Expected N | Residual |
|---|---|---|---|
| Yes | 3 | 7.0 | -4.0 |
| Sometimes | 20 | 13.0 | 7.0 |
| No | 41 | 44.0 | -3.0 |
| Total | 64 | | |

**Parents Fuss**

| | Observed N | Expected N | Residual |
|---|---|---|---|
| Yes | 18 | 7.0 | 11.0 |
| Sometimes | 24 | 13.0 | 11.0 |
| No | 22 | 44.0 | -22.0 |
| Total | 64 | | |

**Feel Different to Friends**

| | Observed N | Expected N | Residual |
|---|---|---|---|
| Yes | 24 | 7.0 | 17.0 |
| Sometimes | 19 | 13.0 | 6.0 |
| No | 21 | 44.0 | -23.0 |
| Total | 64 | | |

**Get Upset Not Able to Eat Certain Foods**

| | Observed N | Expected N | Residual |
|---|---|---|---|
| Yes | 18 | 7.0 | 11.0 |
| Sometimes | 28 | 13.0 | 15.0 |
| No | 18 | 44.0 | -26.0 |
| Total | 64 | | |

**Test Statistics**

| | Miss_Friends_Birthdays | Parents_Fuss | Feel_Different_to_Friends | Get_Upset_Not_Able_to_Eat_Certain_Foods |
|---|---|---|---|---|
| Chi-Square | 6.259[a] | 37.593[a] | 56.078[a] | 49.957[a] |
| df | 2 | 2 | 2 | 2 |
| Asymp. Sig. | .044 | .000 | .000 | .000 |

a. 0 cells (.0%) have expected frequencies less than 5. The minimum expected cell frequency is 7.0.

```
PLUM Get_Upset_Not_Able_to_Eat_Certain_Foods BY Gender
  /CRITERIA=CIN(95) DELTA(0) LCONVERGE(0) MXITER(100) MXSTEP(5) PCONVERGE(1.0E
-6) SINGULAR(1.0E-8)
  /LINK=LOGIT
  /PRINT=FIT PARAMETER SUMMARY TPARALLEL
  /SAVE=ESTPROB.
```

## PLUM - Ordinal Regression - Get Upset Not Able to Eat Certain Foods

**Case Processing Summary**

| | | N | Marginal Percentage |
|---|---|---|---|
| Get_Upset_Not_Able_to_Eat_Certain_Foods | Yes | 18 | 28.6% |
| | Sometimes | 27 | 42.9% |
| | No | 18 | 28.6% |
| Gender | Boy | 41 | 65.1% |
| | Girl | 22 | 34.9% |
| Valid | | 63 | 100.0% |
| Missing | | 2 | |
| Total | | 65 | |

## Model Fitting Information

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Intercept Only | 16.137 | | | |
| Final | 16.010 | .127 | 1 | .721 |

Link function: Logit.

## Goodness-of-Fit

| | Chi-Square | df | Sig. |
|---|---|---|---|
| Pearson | 1.671 | 1 | .196 |
| Deviance | 1.698 | 1 | .193 |

Link function: Logit.

## Pseudo R-Square

| | |
|---|---|
| Cox and Snell | .002 |
| Nagelkerke | .002 |
| McFadden | .001 |

Link function: Logit.

## Parameter Estimates

| | | Estimate | Std. Error | Wald | df | Sig. |
|---|---|---|---|---|---|---|
| Threshold | [Get_Upset_Not_Able_to_Eat_Certain_Foods = 1] | -1.039 | .429 | 5.872 | 1 | .015 |
| | [Get_Upset_Not_Able_to_Eat_Certain_Foods = 2] | .797 | .419 | 3.617 | 1 | .057 |
| Location | [Gender=1 = Boy] | -.178 | .490 | .132 | 1 | .716 |
| | GIrl | 0[a] | . | . | 0 | . |

## Parameter Estimates

| | | 95% Confidence Interval | |
|---|---|---|---|
| | | Lower Bound | Upper Bound |
| Threshold | [Get_Upset_Not_Able_to_Eat_Certain_Foods = 1] | -1.879 | -.199 |
| | [Get_Upset_Not_Able_to_Eat_Certain_Foods = 2] | -.024 | 1.618 |
| Location | [Gender=1 = Boy] | -1.139 | .782 |
| | GIrl | . | . |

Link function: Logit.

a. This parameter is set to zero because it is redundant.

**Test of Parallel Lines[a]**

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Null Hypothesis | 16.010 | | | |
| General | 14.311 | 1.698 | 1 | .193 |

The null hypothesis states that the location parameters (slope coefficients) are the same across response categories.

a. Link function: Logit.

## Get_Upset_Not_Able_to_Eat_Certain_Foods * Gender

**Crosstab**

| | | | Gender | | |
|---|---|---|---|---|---|
| | | | Boy | Girl | Total |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | Yes | Count | 11 | 7 | 18 |
| | | Expected Count | 11.7 | 6.3 | 18.0 |
| | | % within Get_Upset_Not_Able_to_Eat_Certain_Foods | 61.1% | 38.9% | 100.0% |
| | | % within Gender | 26.8% | 31.8% | 28.6% |
| | Sometimes | Count | 20 | 7 | 27 |
| | | Expected Count | 17.6 | 9.4 | 27.0 |
| | | % within Get_Upset_Not_Able_to_Eat_Certain_Foods | 74.1% | 25.9% | 100.0% |
| | | % within Gender | 48.8% | 31.8% | 42.9% |
| | No | Count | 10 | 8 | 18 |
| | | Expected Count | 11.7 | 6.3 | 18.0 |

**Crosstab**

| | | Gender | | |
|---|---|---|---|---|
| | | Boy | Girl | Total |
| | % within Get_Upset_Not_Able_to_Eat_Certain_Foods | 55.6% | 44.4% | 100.0% |
| | % within Gender | 24.4% | 36.4% | 28.6% |
| Total | Count | 41 | 22 | 63 |
| | Expected Count | 41.0 | 22.0 | 63.0 |
| | % within Get_Upset_Not_Able_to_Eat_Certain_Foods | 65.1% | 34.9% | 100.0% |
| | % within Gender | 100.0% | 100.0% | 100.0% |

**Chi-Square Tests**

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 1.804[a] | 2 | .406 |
| Likelihood Ratio | 1.825 | 2 | .401 |
| Linear-by-Linear Association | .120 | 1 | .729 |
| N of Valid Cases | 63 | | |

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 6.29.

## Get_Upset_Not_Able_to_Eat_Certain_Foods * Other_Allergies

## Crosstab

| | | | Other_Allergies | | |
|---|---|---|---|---|---|
| | | | Yes | No | Total |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | Yes | Count | 17 | 1 | 18 |
| | | % within Get_Upset_Not_Able_to_Eat_Certain_Foods | 94.4% | 5.6% | 100.0% |
| | | % within Other_Allergies | 31.5% | 11.1% | 28.6% |
| | | % of Total | 27.0% | 1.6% | 28.6% |
| | Sometimes | Count | 24 | 3 | 27 |
| | | % within Get_Upset_Not_Able_to_Eat_Certain_Foods | 88.9% | 11.1% | 100.0% |
| | | % within Other_Allergies | 44.4% | 33.3% | 42.9% |
| | | % of Total | 38.1% | 4.8% | 42.9% |
| | No | Count | 13 | 5 | 18 |
| | | % within Get_Upset_Not_Able_to_Eat_Certain_Foods | 72.2% | 27.8% | 100.0% |
| | | % within Other_Allergies | 24.1% | 55.6% | 28.6% |
| | | % of Total | 20.6% | 7.9% | 28.6% |
| Total | | Count | 54 | 9 | 63 |
| | | % within Get_Upset_Not_Able_to_Eat_Certain_Foods | 85.7% | 14.3% | 100.0% |
| | | % within Other_Allergies | 100.0% | 100.0% | 100.0% |
| | | % of Total | 85.7% | 14.3% | 100.0% |

## Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 4.019[a] | 2 | .134 |
| Likelihood Ratio | 3.843 | 2 | .146 |
| Linear-by-Linear Association | 3.572 | 1 | .059 |
| N of Valid Cases | 63 | | |

a. 3 cells (50.0%) have expected count less than 5. The minimum expected count is 2.57.

```
PLUM Get_Upset_Not_Able_to_Eat_Certain_Foods BY Number_of_Allergens
  /CRITERIA=CIN(95) DELTA(0) LCONVERGE(0) MXITER(100) MXSTEP(5) PCONVERGE(1.0E
-6) SINGULAR(1.0E-8)
  /LINK=LOGIT
  /PRINT=FIT PARAMETER SUMMARY TPARALLEL
```

**Case Processing Summary**

| | | N | Marginal Percentage |
|---|---|---|---|
| Get_Upset_Not_Able_to_Eat_Certain_Foods | Yes | 18 | 28.1% |
| | Sometimes | 28 | 43.8% |
| | No | 18 | 28.1% |
| Number_of_Allergens | 1 Allergen | 15 | 23.4% |
| | 2 - 3 Allergens | 22 | 34.4% |
| | 4 Allergens or More | 27 | 42.2% |
| Valid | | 64 | 100.0% |
| Missing | | 1 | |
| Total | | 65 | |

**Model Fitting Information**

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Intercept Only | 26.208 | | | |
| Final | 21.086 | 5.123 | 2 | .077 |

Link function: Logit.

**Goodness-of-Fit**

| | Chi-Square | df | Sig. |
|---|---|---|---|
| Pearson | 2.371 | 2 | .306 |
| Deviance | 2.438 | 2 | .295 |

Link function: Logit.

### Pseudo R-Square

| | |
|---|---|
| Cox and Snell | .077 |
| Nagelkerke | .087 |
| McFadden | .037 |

Link function: Logit.

### Parameter Estimates

| | | Estimate | Std. Error | Wald | df | Sig. |
|---|---|---|---|---|---|---|
| Threshold | [Get_Upset_Not_Able_to_Eat_Certain_Foods = 1] | -.806 | .387 | 4.344 | 1 | .037 |
| | [Get_Upset_Not_Able_to_Eat_Certain_Foods = 2] | 1.197 | .406 | 8.674 | 1 | .003 |
| Location | [Number_of_Allergens=1] | -.537 | .608 | .782 | 1 | .377 |
| | [Number_of_Allergens=2] | .844 | .547 | 2.384 | 1 | .123 |
| | [Number_of_Allergens=3] | 0[a] | . | . | 0 | . |

### Parameter Estimates

| | | 95% Confidence Interval | |
|---|---|---|---|
| | | Lower Bound | Upper Bound |
| Threshold | [Get_Upset_Not_Able_to_Eat_Certain_Foods = 1] | -1.563 | -.048 |
| | [Get_Upset_Not_Able_to_Eat_Certain_Foods = 2] | .400 | 1.994 |
| Location | [Number_of_Allergens=1] | -1.729 | .654 |
| | [Number_of_Allergens=2] | -.228 | 1.916 |
| | [Number_of_Allergens=3] | . | . |

Link function: Logit.

a. This parameter is set to zero because it is redundant.

### Test of Parallel Lines[a]

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Null Hypothesis | 21.086 | | | |
| General | 18.647 | 2.438 | 2 | .295 |

The null hypothesis states that the location parameters (slope coefficients) are the same across response categories.

a. Link function: Logit.

```
CROSSTABS
  /TABLES=Get_Upset_Not_Able_to_Eat_Certain_Foods BY Number_of_Allergens
  /SHOWDIM=2
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ
  /CELLS=COUNT COLUMN
  /COUNT ROUND CELL.
```

# Crosstabs

### Case Processing Summary

| | Cases | | | | | |
|---|---|---|---|---|---|---|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Get_Upset_Not_Able_to_Eat_Certain_Foods * Number_of_Allergens | 64 | 98.5% | 1 | 1.5% | 65 | 100.0% |

### Get_Upset_Not_Able_to_Eat_Certain_Foods * Number_of_Allergens Crosstabulation

| | | | Number_of_Allergens | |
|---|---|---|---|---|
| | | | 1 Allergen | 2 - 3 Allergens |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | Yes | Count | 7 | 2 |
| | | % within Number_of_Allergens | 46.7% | 8.7% |
| | Sometimes | Count | 5 | 12 |
| | | % within Number_of_Allergens | 33.3% | 52.2% |
| | No | Count | 3 | 9 |
| | | % within Number_of_Allergens | 20.0% | 39.1% |
| Total | | Count | 15 | 23 |
| | | % within Number_of_Allergens | 100.0% | 100.0% |

**Get_Upset_Not_Able_to_Eat_Certain_Foods * Number_of_Allergens Crosstabulation**

| | | | Number_of_Aller... | |
|---|---|---|---|---|
| | | | 4 Allergens or More | Total |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | Yes | Count | 9 | 18 |
| | | % within Number_of_Allergens | 34.6% | 28.1% |
| | Sometimes | Count | 11 | 28 |
| | | % within Number_of_Allergens | 42.3% | 43.8% |
| | No | Count | 6 | 18 |
| | | % within Number_of_Allergens | 23.1% | 28.1% |
| Total | | Count | 26 | 64 |
| | | % within Number_of_Allergens | 100.0% | 100.0% |

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 7.646[a] | 4 | .105 |
| Likelihood Ratio | 8.426 | 4 | .077 |
| Linear-by-Linear Association | .045 | 1 | .832 |
| N of Valid Cases | 64 | | |

a. 2 cells (22.2%) have expected count less than 5. The minimum expected count is 4.22.

```
PLUM Feel_Different_to_Friends BY Gender
  /CRITERIA=CIN(95) DELTA(0) LCONVERGE(0) MXITER(100) MXSTEP(5) PCONVERGE(1.0E
-6) SINGULAR(1.0E-8)
  /LINK=LOGIT
  /PRINT=FIT PARAMETER SUMMARY TPARALLEL
  /SAVE=ESTPROB.
```

## PLUM - Ordinal Regression - Feel Different to Friends

## Case Processing Summary

| | | N | Marginal Percentage |
|---|---|---|---|
| Feel_Different_to_Friends | Yes | 23 | 36.5% |
| | Sometimes | 19 | 30.2% |
| | No | 21 | 33.3% |
| Gender | Boy | 41 | 65.1% |
| | Girl | 22 | 34.9% |
| Valid | | 63 | 100.0% |
| Missing | | 2 | |
| Total | | 65 | |

## Model Fitting Information

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Intercept Only | 14.498 | | | |
| Final | 14.490 | .009 | 1 | .926 |

Link function: Logit.

## Goodness-of-Fit

| | Chi-Square | df | Sig. |
|---|---|---|---|
| Pearson | .046 | 1 | .830 |
| Deviance | .046 | 1 | .831 |

Link function: Logit.

## Pseudo R-Square

| | |
|---|---|
| Cox and Snell | .000 |
| Nagelkerke | .000 |
| McFadden | .000 |

Link function: Logit.

**Parameter Estimates**

| | | Estimate | Std. Error | Wald | df | Sig. |
|---|---|---|---|---|---|---|
| Threshold | [Feel_Different_to_Friends = 1] | -.525 | .410 | 1.637 | 1 | .201 |
| | [Feel_Different_to_Friends = 2] | .722 | .415 | 3.028 | 1 | .082 |
| Location | [Gender=1 = Boys] | .045 | .486 | .008 | 1 | .927 |
| | Girls | 0[a] | . | . | 0 | . |

**Parameter Estimates**

| | | 95% Confidence Interval | |
|---|---|---|---|
| | | Lower Bound | Upper Bound |
| Threshold | [Feel_Different_to_Friends = 1] | -1.328 | .279 |
| | [Feel_Different_to_Friends = 2] | -.091 | 1.536 |
| Location | [Gender=1 = Boys] | -.908 | .998 |
| | Girls | . | . |

Link function: Logit.

a. This parameter is set to zero because it is redundant.

**Test of Parallel Lines[a]**

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Null Hypothesis | 14.490 | | | |
| General | 14.444 | .046 | 1 | .831 |

The null hypothesis states that the location parameters (slope coefficients) are the same across response categories.

a. Link function: Logit.

## Feel_Different_to_Friends * Gender

## Crosstab

Count

| | | Gender | | |
|---|---|---|---|---|
| | | Boy | Girl | Total |
| Feel_Different_to_Friends | Yes | 15 | 8 | 23 |
| | Sometimes | 12 | 7 | 19 |
| | No | 14 | 7 | 21 |
| Total | | 41 | 22 | 63 |

## Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | .054[a] | 2 | .973 |
| Likelihood Ratio | .054 | 2 | .973 |
| Linear-by-Linear Association | .009 | 1 | .925 |
| N of Valid Cases | 63 | | |

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 6.63.

## Feel_Different_to_Friends * Other_Allergies

## Crosstab

| | | | Other_Allergies | | |
|---|---|---|---|---|---|
| | | | Yes | No | Total |
| Feel_Different_to_Friends | Yes | Count | 21 | 2 | 23 |
| | | % within Feel_Different_to_Friends | 91.3% | 8.7% | 100.0% |
| | | % within Other_Allergies | 38.9% | 22.2% | 36.5% |
| | | % of Total | 33.3% | 3.2% | 36.5% |
| | Sometimes | Count | 17 | 2 | 19 |
| | | % within Feel_Different_to_Friends | 89.5% | 10.5% | 100.0% |
| | | % within Other_Allergies | 31.5% | 22.2% | 30.2% |
| | | % of Total | 27.0% | 3.2% | 30.2% |
| | No | Count | 16 | 5 | 21 |
| | | % within Feel_Different_to_Friends | 76.2% | 23.8% | 100.0% |
| | | % within Other_Allergies | 29.6% | 55.6% | 33.3% |
| | | % of Total | 25.4% | 7.9% | 33.3% |
| Total | | Count | 54 | 9 | 63 |
| | | % within Feel_Different_to_Friends | 85.7% | 14.3% | 100.0% |
| | | % within Other_Allergies | 100.0% | 100.0% | 100.0% |
| | | % of Total | 85.7% | 14.3% | 100.0% |

## Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 2.362[a] | 2 | .307 |
| Likelihood Ratio | 2.245 | 2 | .325 |
| Linear-by-Linear Association | 1.975 | 1 | .160 |
| N of Valid Cases | 63 | | |

a. 3 cells (50.0%) have expected count less than 5. The minimum expected count is 2.71.

```
PLUM Feel_Different_to_Friends BY Number_of_Allergens
  /CRITERIA=CIN(95) DELTA(0) LCONVERGE(0) MXITER(100) MXSTEP(5) PCONVERGE(1.0E
-6) SINGULAR(1.0E-8)
  /LINK=LOGIT
  /PRINT=FIT PARAMETER SUMMARY TPARALLEL
```

## Case Processing Summary

| | | N | Marginal Percentage |
|---|---|---|---|
| Feel_Different_to_Friends | Yes | 24 | 37.5% |
| | Sometimes | 19 | 29.7% |
| | No | 21 | 32.8% |
| Number_of_Allergens | 1 Allergen | 15 | 23.4% |
| | 2 - 3 Allergens | 22 | 34.4% |
| | 4 Allergens or More | 27 | 42.2% |
| Valid | | 64 | 100.0% |
| Missing | | 1 | |
| Total | | 65 | |

## Model Fitting Information

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Intercept Only | 21.923 | | | |
| Final | 20.173 | 1.750 | 2 | .417 |

Link function: Logit.

## Goodness-of-Fit

| | Chi-Square | df | Sig. |
|---|---|---|---|
| Pearson | .917 | 2 | .632 |
| Deviance | .928 | 2 | .629 |

Link function: Logit.

### Pseudo R-Square

| | |
|---|---|
| Cox and Snell | .027 |
| Nagelkerke | .030 |
| McFadden | .012 |

Link function: Logit.

### Parameter Estimates

| | | Estimate | Std. Error | Wald | df | Sig. |
|---|---|---|---|---|---|---|
| Threshold | [Feel_Different_to_Friends = 1] | -.545 | .374 | 2.123 | 1 | .145 |
| | [Feel_Different_to_Friends = 2] | .710 | .379 | 3.504 | 1 | .061 |
| Location | [Number_of_Allergens=1] | -.559 | .604 | .855 | 1 | .355 |
| | [Number_of_Allergens=2] | .274 | .529 | .267 | 1 | .605 |
| | [Number_of_Allergens=3] | 0[a] | . | . | 0 | . |

### Parameter Estimates

| | | 95% Confidence Interval | |
|---|---|---|---|
| | | Lower Bound | Upper Bound |
| Threshold | [Feel_Different_to_Friends = 1] | -1.279 | .188 |
| | [Feel_Different_to_Friends = 2] | -.033 | 1.453 |
| Location | [Number_of_Allergens=1] | -1.743 | .626 |
| | [Number_of_Allergens=2] | -.764 | 1.311 |
| | [Number_of_Allergens=3] | . | . |

Link function: Logit.

a. This parameter is set to zero because it is redundant.

### Test of Parallel Lines[a]

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Null Hypothesis | 20.173 | | | |
| General | 19.245 | .928 | 2 | .629 |

The null hypothesis states that the location parameters (slope coefficients) are the same across response categories.

a. Link function: Logit.

```
CROSSTABS
  /TABLES=Feel_Different_to_Friends BY Number_of_Allergens
  /SHOWDIM=2
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ
  /CELLS=COUNT COLUMN
  /COUNT ROUND CELL.
```

# Crosstabs

### Case Processing Summary

| | Cases | | | | | |
|---|---|---|---|---|---|---|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Feel_Different_to_Friends * Number_of_Allergens | 64 | 98.5% | 1 | 1.5% | 65 | 100.0% |

### Feel_Different_to_Friends * Number_of_Allergens Crosstabulation

| | | | Number_of_Allergens | |
|---|---|---|---|---|
| | | | 1 Allergen | 2 - 3 Allergens |
| Feel_Different_to_Friends | Yes | Count | 8 | 6 |
| | | % within Number_of_Allergens | 53.3% | 26.1% |
| | Sometimes | Count | 3 | 8 |
| | | % within Number_of_Allergens | 20.0% | 34.8% |
| | No | Count | 4 | 9 |
| | | % within Number_of_Allergens | 26.7% | 39.1% |
| Total | | Count | 15 | 23 |
| | | % within Number_of_Allergens | 100.0% | 100.0% |

**Feel_Different_to_Friends * Number_of_Allergens Crosstabulation**

| | | | Number_of_Aller... | |
|---|---|---|---|---|
| | | | 4 Allergens or More | Total |
| Feel_Different_to_Friends | Yes | Count | 10 | 24 |
| | | % within Number_of_Allergens | 38.5% | 37.5% |
| | Sometimes | Count | 8 | 19 |
| | | % within Number_of_Allergens | 30.8% | 29.7% |
| | No | Count | 8 | 21 |
| | | % within Number_of_Allergens | 30.8% | 32.8% |
| Total | | Count | 26 | 64 |
| | | % within Number_of_Allergens | 100.0% | 100.0% |

**Chi-Square Tests**

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 2.979[a] | 4 | .561 |
| Likelihood Ratio | 3.006 | 4 | .557 |
| Linear-by-Linear Association | .227 | 1 | .634 |
| N of Valid Cases | 64 | | |

a. 2 cells (22.2%) have expected count less than 5. The minimum expected count is 4.45.

```
PLUM Miss_Friends_BirthdaysBY Gender
  /CRITERIA=CIN(95) DELTA(0) LCONVERGE(0) MXITER(100) MXSTEP(5) PCONVERGE(1.0E
-6) SINGULAR(1.0E-8)
  /LINK=LOGIT
  /PRINT=CELLINFO FIT PARAMETER SUMMARY
  /SAVE=ESTPROB PREDCAT PCPROB ACPROB.
```

## PLUM - Ordinal Regression - Missing Friends' Birthdays

## Case Processing Summary

| | | N | Marginal Percentage |
|---|---|---|---|
| Miss_Friends_Birthdays | Yes | 3 | 4.8% |
| | Sometimes | 19 | 30.2% |
| | No | 41 | 65.1% |
| Gender | Boy | 41 | 65.1% |
| | Girl | 22 | 34.9% |
| Valid | | 63 | 100.0% |
| Missing | | 2 | |
| Total | | 65 | |

## Model Fitting Information

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Intercept Only | 14.151 | | | |
| Final | 12.059 | 2.092 | 1 | .148 |

Link function: Logit.

## Goodness-of-Fit

| | Chi-Square | df | Sig. |
|---|---|---|---|
| Pearson | .460 | 1 | .498 |
| Deviance | .411 | 1 | .521 |

Link function: Logit.

## Pseudo R-Square

| | |
|---|---|
| Cox and Snell | .033 |
| Nagelkerke | .041 |
| McFadden | .021 |

Link function: Logit.

**Parameter Estimates**

| | | Estimate | Std. Error | Wald | df | Sig. |
|---|---|---|---|---|---|---|
| Threshold | [Miss_Friends_Birthdays = 1] | -3.610 | .750 | 23.148 | 1 | .000 |
| | [Miss_Friends_Birthdays = 2] | -1.198 | .504 | 5.655 | 1 | .017 |
| Location | [Gender=1] | -.835 | .593 | 1.983 | 1 | .159 |
| | [Gender=2] | 0[a] | . | . | 0 | . |

**Parameter Estimates**

| | | 95% Confidence Interval | |
|---|---|---|---|
| | | Lower Bound | Upper Bound |
| Threshold | [Miss_Friends_Birthdays = 1] | -5.081 | -2.140 |
| | [Miss_Friends_Birthdays = 2] | -2.185 | -.211 |
| Location | [Gender=1] | -1.998 | .327 |
| | [Gender=2] | . | . |

Link function: Logit.

a. This parameter is set to zero because it is redundant.

## Miss_Friends_Birthdays * Gender

### Cell Information

Frequency

| Gender | | Miss_Friends_Birthdays | | |
|---|---|---|---|---|
| | | Yes | Sometimes | No |
| Boy | Observed | 2 | 15 | 24 |
| | Expected | 2.407 | 14.416 | 24.177 |
| | Pearson Residual | -.270 | .191 | -.056 |
| Girl | Observed | 1 | 4 | 17 |
| | Expected | .579 | 4.521 | 16.900 |
| | Pearson Residual | .560 | -.275 | .051 |

Link function: Logit.

## Crosstab

| | | | Gender | | |
|---|---|---|---|---|---|
| | | | Boy | Girl | Total |
| Miss_Friends_Birthdays | Yes | Count | 2 | 1 | 3 |
| | | Expected Count | 2.0 | 1.0 | 3.0 |
| | | % within Miss_Friends_Birthdays | 66.7% | 33.3% | 100.0% |
| | | % within Gender | 4.9% | 4.5% | 4.8% |
| | Sometimes | Count | 15 | 4 | 19 |
| | | Expected Count | 12.4 | 6.6 | 19.0 |
| | | % within Miss_Friends_Birthdays | 78.9% | 21.1% | 100.0% |
| | | % within Gender | 36.6% | 18.2% | 30.2% |
| | No | Count | 24 | 17 | 41 |
| | | Expected Count | 26.7 | 14.3 | 41.0 |
| | | % within Miss_Friends_Birthdays | 58.5% | 41.5% | 100.0% |
| | | % within Gender | 58.5% | 77.3% | 65.1% |
| Total | | Count | 41 | 22 | 63 |
| | | Expected Count | 41.0 | 22.0 | 63.0 |
| | | % within Miss_Friends_Birthdays | 65.1% | 34.9% | 100.0% |
| | | % within Gender | 100.0% | 100.0% | 100.0% |

## Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 2.384[a] | 2 | .304 |
| Likelihood Ratio | 2.503 | 2 | .286 |
| Linear-by-Linear Association | 1.531 | 1 | .216 |
| N of Valid Cases | 63 | | |

a. 2 cells (33.3%) have expected count less than 5. The minimum expected count is 1.05.

# Miss_Friends_Birthdays * Other_Allergies

## Crosstab

| | | | Other_Allergies | | |
|---|---|---|---|---|---|
| | | | Yes | No | Total |
| Miss_Friends_Birthdays | Yes | Count | 3 | 0 | 3 |
| | | % within Miss_Friends_Birthdays | 100.0% | 0.0% | 100.0% |
| | | % within Other_Allergies | 5.6% | 0.0% | 4.8% |
| | | % of Total | 4.8% | 0.0% | 4.8% |
| | Sometimes | Count | 17 | 2 | 19 |
| | | % within Miss_Friends_Birthdays | 89.5% | 10.5% | 100.0% |
| | | % within Other_Allergies | 31.5% | 22.2% | 30.2% |
| | | % of Total | 27.0% | 3.2% | 30.2% |
| | No | Count | 34 | 7 | 41 |
| | | % within Miss_Friends_Birthdays | 82.9% | 17.1% | 100.0% |
| | | % within Other_Allergies | 63.0% | 77.8% | 65.1% |
| | | % of Total | 54.0% | 11.1% | 65.1% |
| Total | | Count | 54 | 9 | 63 |
| | | % within Miss_Friends_Birthdays | 85.7% | 14.3% | 100.0% |
| | | % within Other_Allergies | 100.0% | 100.0% | 100.0% |
| | | % of Total | 85.7% | 14.3% | 100.0% |

## Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | .979[a] | 2 | .613 |
| Likelihood Ratio | 1.410 | 2 | .494 |
| Linear-by-Linear Association | .942 | 1 | .332 |
| N of Valid Cases | 63 | | |

a. 3 cells (50.0%) have expected count less than 5. The minimum expected count is .43.

```
PLUM Miss_Friends_BirthdaysBY Number_of_Allergens
 /CRITERIA=CIN(95) DELTA(0) LCONVERGE(0) MXITER(100) MXSTEP(5) PCONVERGE(1.0E
```

```
-6) SINGULAR(1.0E-8)
  /LINK=LOGIT
  /PRINT=FIT PARAMETER SUMMARY TPARALLEL
  /SAVE=ESTPROB.
```

## Case Processing Summary

| | | N | Marginal Percentage |
|---|---|---|---|
| Miss_Friends_Birthdays | Yes | 3 | 4.7% |
| | Sometimes | 20 | 31.3% |
| | No | 41 | 64.1% |
| Number_of_Allergens | 1 Allergen | 15 | 23.4% |
| | 2 - 3 Allergens | 22 | 34.4% |
| | 4 Allergens or More | 27 | 42.2% |
| Valid | | 64 | 100.0% |
| Missing | | 1 | |
| Total | | 65 | |

## Model Fitting Information

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Intercept Only | 17.545 | | | |
| Final | 17.371 | .174 | 2 | .916 |

Link function: Logit.

## Goodness-of-Fit

| | Chi-Square | df | Sig. |
|---|---|---|---|
| Pearson | 2.014 | 2 | .365 |
| Deviance | 2.884 | 2 | .236 |

Link function: Logit.

## Pseudo R-Square

| | |
|---|---|
| Cox and Snell | .003 |
| Nagelkerke | .003 |
| McFadden | .002 |

Link function: Logit.

## Parameter Estimates

| | | Estimate | Std. Error | Wald | df | Sig. |
|---|---|---|---|---|---|---|
| Threshold | [Miss_Friends_Birthdays = 1] | -3.083 | .669 | 21.211 | 1 | .000 |
| | [Miss_Friends_Birthdays = 2] | -.645 | .403 | 2.562 | 1 | .109 |
| Location | [Number_of_Allergens=1] | -.258 | .655 | .155 | 1 | .694 |
| | [Number_of_Allergens=2] | -.014 | .598 | .001 | 1 | .981 |
| | [Number_of_Allergens=3] | 0[a] | . | . | 0 | . |

## Parameter Estimates

| | | 95% Confidence Interval | |
|---|---|---|---|
| | | Lower Bound | Upper Bound |
| Threshold | [Miss_Friends_Birthdays = 1] | -4.394 | -1.771 |
| | [Miss_Friends_Birthdays = 2] | -1.434 | .145 |
| Location | [Number_of_Allergens=1] | -1.542 | 1.026 |
| | [Number_of_Allergens=2] | -1.186 | 1.157 |
| | [Number_of_Allergens=3] | . | . |

Link function: Logit.

a. This parameter is set to zero because it is redundant.

## Test of Parallel Lines[a]

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Null Hypothesis | 17.371 | | | |
| General | 14.487 | 2.884 | 2 | .236 |

The null hypothesis states that the location parameters (slope coefficients) are the same across response categories.

a. Link function: Logit.

```
CROSSTABS
  /TABLES=Miss_Friends_BirthdaysBY Number_of_Allergens
  /SHOWDIM=2
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ
```

```
/CELLS=COUNT COLUMN
/COUNT ROUND CELL.
```

# Crosstabs

### Case Processing Summary

| | Cases | | | | | |
|---|---|---|---|---|---|---|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Miss_Friends_Birthdays * Number_of_Allergens | 64 | 98.5% | 1 | 1.5% | 65 | 100.0% |

### Miss_Friends_Birthdays * Number_of_Allergens Crosstabulation

| | | | Number_of_Allergens | |
|---|---|---|---|---|
| | | | 1 Allergen | 2 - 3 Allergens |
| Miss_Friends_Birthdays | Yes | Count | 1 | 0 |
| | | % within Number_of_Allergens | 6.7% | 0.0% |
| | Sometimes | Count | 5 | 8 |
| | | % within Number_of_Allergens | 33.3% | 34.8% |
| | No | Count | 9 | 15 |
| | | % within Number_of_Allergens | 60.0% | 65.2% |
| Total | | Count | 15 | 23 |
| | | % within Number_of_Allergens | 100.0% | 100.0% |

**Miss_Friends_Birthdays * Number_of_Allergens Crosstabulation**

| | | | Number_of_Aller... | |
|---|---|---|---|---|
| | | | 4 Allergens or More | Total |
| Miss_Friends_Birthdays | Yes | Count | 2 | 3 |
| | | % within Number_of_Allergens | 7.7% | 4.7% |
| | Sometimes | Count | 7 | 20 |
| | | % within Number_of_Allergens | 26.9% | 31.3% |
| | No | Count | 17 | 41 |
| | | % within Number_of_Allergens | 65.4% | 64.1% |
| Total | | Count | 26 | 64 |
| | | % within Number_of_Allergens | 100.0% | 100.0% |

**Chi-Square Tests**

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 2.023[a] | 4 | .731 |
| Likelihood Ratio | 3.009 | 4 | .556 |
| Linear-by-Linear Association | .017 | 1 | .898 |
| N of Valid Cases | 64 | | |

a. 4 cells (44.4%) have expected count less than 5. The minimum expected count is .70.

## PLUM - Ordinal Regression - Parents Fuss

```
PLUM Parents_Fuss BY Gender
  /CRITERIA=CIN(95) DELTA(0) LCONVERGE(0) MXITER(100) MXSTEP(5) PCONVERGE(1.0E
-6) SINGULAR(1.0E-8)
  /LINK=LOGIT
  /PRINT=CELLINFO FIT PARAMETER SUMMARY
  /SAVE=ESTPROB PREDCAT PCPROB ACPROB.
```

## Case Processing Summary

| | | N | Marginal Percentage |
|---|---|---|---|
| Parents_Fuss | Yes | 17 | 27.0% |
| | Sometimes | 24 | 38.1% |
| | No | 22 | 34.9% |
| Gender | Boy | 41 | 65.1% |
| | Girl | 22 | 34.9% |
| Valid | | 63 | 100.0% |
| Missing | | 2 | |
| Total | | 65 | |

## Model Fitting Information

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Intercept Only | 14.953 | | | |
| Final | 14.362 | .590 | 1 | .442 |

Link function: Logit.

## Goodness-of-Fit

| | Chi-Square | df | Sig. |
|---|---|---|---|
| Pearson | .009 | 1 | .925 |
| Deviance | .009 | 1 | .925 |

Link function: Logit.

## Pseudo R-Square

| | |
|---|---|
| Cox and Snell | .009 |
| Nagelkerke | .011 |
| McFadden | .004 |

Link function: Logit.

**Parameter Estimates**

| | | Estimate | Std. Error | Wald | df | Sig. |
|---|---|---|---|---|---|---|
| Threshold | [Parents_Fuss = 1] | -1.249 | .438 | 8.119 | 1 | .004 |
| | [Parents_Fuss = 2] | .381 | .409 | .870 | 1 | .351 |
| Location | [Gender=1] = Boy | -.376 | .491 | .589 | 1 | .443 |
| | Girl | 0[a] | . | . | 0 | . |

**Parameter Estimates**

| | | 95% Confidence Interval | |
|---|---|---|---|
| | | Lower Bound | Upper Bound |
| Threshold | [Parents_Fuss = 1] | -2.107 | -.390 |
| | [Parents_Fuss = 2] | -.420 | 1.183 |
| Location | [Gender=1] = Boy | -1.338 | .585 |
| | Girl | . | . |

Link function: Logit.

a. This parameter is set to zero because it is redundant.

## Parents_Fuss * Gender

### Cell Information

Frequency

| Gender | | Parents_Fuss | | |
|---|---|---|---|---|
| | | Yes | Sometimes | No |
| Boy | Observed | 12 | 16 | 13 |
| | Expected | 12.087 | 15.830 | 13.084 |
| | Pearson Residual | -.030 | .055 | -.028 |
| Girl | Observed | 5 | 8 | 9 |
| | Expected | 4.905 | 8.168 | 8.927 |
| | Pearson Residual | .049 | -.074 | .032 |

Link function: Logit.

**Crosstab**

| | | | Gender | | |
|---|---|---|---|---|---|
| | | | Boy | Girl | Total |
| Parents_Fuss | Yes | Count | 12 | 5 | 17 |
| | | Expected Count | 11.1 | 5.9 | 17.0 |
| | | % within Parents_Fuss | 70.6% | 29.4% | 100.0% |
| | | % within Gender | 29.3% | 22.7% | 27.0% |
| | Sometimes | Count | 16 | 8 | 24 |
| | | Expected Count | 15.6 | 8.4 | 24.0 |
| | | % within Parents_Fuss | 66.7% | 33.3% | 100.0% |
| | | % within Gender | 39.0% | 36.4% | 38.1% |
| | No | Count | 13 | 9 | 22 |
| | | Expected Count | 14.3 | 7.7 | 22.0 |
| | | % within Parents_Fuss | 59.1% | 40.9% | 100.0% |
| | | % within Gender | 31.7% | 40.9% | 34.9% |
| Total | | Count | 41 | 22 | 63 |
| | | Expected Count | 41.0 | 22.0 | 63.0 |
| | | % within Parents_Fuss | 65.1% | 34.9% | 100.0% |
| | | % within Gender | 100.0% | 100.0% | 100.0% |

**Chi-Square Tests**

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | .601[a] | 2 | .741 |
| Likelihood Ratio | .599 | 2 | .741 |
| Linear-by-Linear Association | .570 | 1 | .450 |
| N of Valid Cases | 63 | | |

a. 0 cells (.0%) have expected count less than 5. The minimum expected count is 5.94.

## Parents_Fuss * Other_Allergies

## Crosstab

| | | | Other_Allergies | | |
|---|---|---|---|---|---|
| | | | Yes | No | Total |
| Parents_Fuss | Yes | Count | 16 | 1 | 17 |
| | | % within Parents_Fuss | 94.1% | 5.9% | 100.0% |
| | | % within Other_Allergies | 29.6% | 11.1% | 27.0% |
| | | % of Total | 25.4% | 1.6% | 27.0% |
| | Sometimes | Count | 20 | 4 | 24 |
| | | % within Parents_Fuss | 83.3% | 16.7% | 100.0% |
| | | % within Other_Allergies | 37.0% | 44.4% | 38.1% |
| | | % of Total | 31.7% | 6.3% | 38.1% |
| | No | Count | 18 | 4 | 22 |
| | | % within Parents_Fuss | 81.8% | 18.2% | 100.0% |
| | | % within Other_Allergies | 33.3% | 44.4% | 34.9% |
| | | % of Total | 28.6% | 6.3% | 34.9% |
| Total | | Count | 54 | 9 | 63 |
| | | % within Parents_Fuss | 85.7% | 14.3% | 100.0% |
| | | % within Other_Allergies | 100.0% | 100.0% | 100.0% |
| | | % of Total | 85.7% | 14.3% | 100.0% |

## Chi-Square Tests

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 1.364[a] | 2 | .506 |
| Likelihood Ratio | 1.579 | 2 | .454 |
| Linear-by-Linear Association | 1.088 | 1 | .297 |
| N of Valid Cases | 63 | | |

a. 3 cells (50.0%) have expected count less than 5. The minimum expected count is 2.43.

```
PLUM Parents_Fuss BY Number_of_Allergens
  /CRITERIA=CIN(95) DELTA(0) LCONVERGE(0) MXITER(100) MXSTEP(5) PCONVERGE(1.0E
-6) SINGULAR(1.0E-8)
  /LINK=LOGIT
  /PRINT=FIT PARAMETER SUMMARY TPARALLEL
```

/SAVE=ESTPROB.

## Case Processing Summary

| | | N | Marginal Percentage |
|---|---|---|---|
| Parents_Fuss | Yes | 18 | 28.1% |
| | Sometimes | 24 | 37.5% |
| | No | 22 | 34.4% |
| Number_of_Allergens | 1 Allergen | 15 | 23.4% |
| | 2 - 3 Allergens | 22 | 34.4% |
| | 4 Allergens or More | 27 | 42.2% |
| Valid | | 64 | 100.0% |
| Missing | | 1 | |
| Total | | 65 | |

## Model Fitting Information

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Intercept Only | 24.903 | | | |
| Final | 23.071 | 1.832 | 2 | .400 |

Link function: Logit.

## Goodness-of-Fit

| | Chi-Square | df | Sig. |
|---|---|---|---|
| Pearson | 3.939 | 2 | .140 |
| Deviance | 4.095 | 2 | .129 |

Link function: Logit.

## Pseudo R-Square

| | |
|---|---|
| Cox and Snell | .028 |
| Nagelkerke | .032 |
| McFadden | .013 |

Link function: Logit.

## Parameter Estimates

| | | Estimate | Std. Error | Wald | df | Sig. |
|---|---|---|---|---|---|---|
| Threshold | [Parents_Fuss = 1] | -.899 | .387 | 5.404 | 1 | .020 |
| | [Parents_Fuss = 2] | .723 | .380 | 3.623 | 1 | .057 |
| Location | [Number_of_Allergens=1] | -.448 | .597 | .565 | 1 | .452 |
| | [Number_of_Allergens=2] | .403 | .533 | .572 | 1 | .450 |
| | [Number_of_Allergens=3] | 0[a] | . | . | 0 | . |

## Parameter Estimates

| | | 95% Confidence Interval | |
|---|---|---|---|
| | | Lower Bound | Upper Bound |
| Threshold | [Parents_Fuss = 1] | -1.657 | -.141 |
| | [Parents_Fuss = 2] | -.021 | 1.468 |
| Location | [Number_of_Allergens=1] | -1.618 | .721 |
| | [Number_of_Allergens=2] | -.642 | 1.449 |
| | [Number_of_Allergens=3] | . | . |

Link function: Logit.

a. This parameter is set to zero because it is redundant.

## Test of Parallel Lines[a]

| Model | -2 Log Likelihood | Chi-Square | df | Sig. |
|---|---|---|---|---|
| Null Hypothesis | 23.071 | | | |
| General | 18.976 | 4.095 | 2 | .129 |

The null hypothesis states that the location parameters (slope coefficients) are the same across response categories.

a. Link function: Logit.

```
CROSSTABS
  /TABLES=Parents_Fuss BY Number_of_Allergens
  /SHOWDIM=2
  /FORMAT=AVALUE TABLES
  /STATISTICS=CHISQ
  /CELLS=COUNT COLUMN
  /COUNT ROUND CELL.
```

# Crosstabs

## Case Processing Summary

| | Cases | | | | | |
|---|---|---|---|---|---|---|
| | Valid | | Missing | | Total | |
| | N | Percent | N | Percent | N | Percent |
| Parents_Fuss * Number_of_Allergens | 64 | 98.5% | 1 | 1.5% | 65 | 100.0% |

## Parents_Fuss * Number_of_Allergens Crosstabulation

| | | | Number_of_Allergens | | |
|---|---|---|---|---|---|
| | | | 1 Allergen | 2 - 3 Allergens | 4 Allergens or More |
| Parents_Fuss | Yes | Count | 7 | 3 | 8 |
| | | % within Number_of_Allergens | 46.7% | 13.0% | 30.8% |
| | Sometimes | Count | 3 | 12 | 9 |
| | | % within Number_of_Allergens | 20.0% | 52.2% | 34.6% |
| | No | Count | 5 | 8 | 9 |
| | | % within Number_of_Allergens | 33.3% | 34.8% | 34.6% |
| Total | | Count | 15 | 23 | 26 |
| | | % within Number_of_Allergens | 100.0% | 100.0% | 100.0% |

## Parents_Fuss * Number_of_Allergens Crosstabulation

| | | | Total |
|---|---|---|---|
| Parents_Fuss | Yes | Count | 18 |
| | | % within Number_of_Allergens | 28.1% |
| | Sometimes | Count | 24 |
| | | % within Number_of_Allergens | 37.5% |
| | No | Count | 22 |
| | | % within Number_of_Allergens | 34.4% |
| Total | | Count | 64 |
| | | % within Number_of_Allergens | 100.0% |

**Chi-Square Tests**

| | Value | df | Asymptotic Significance (2-sided) |
|---|---|---|---|
| Pearson Chi-Square | 6.368[a] | 4 | .173 |
| Likelihood Ratio | 6.636 | 4 | .156 |
| Linear-by-Linear Association | .217 | 1 | .642 |
| N of Valid Cases | 64 | | |

a. 1 cells (11.1%) have expected count less than 5. The minimum expected count is 4.22.

```
RELIABILITY
  /VARIABLES=Miss_Friends_BirthdaysParents_Fuss Feel_Different_to_Friends
    Get_Upset_Not_Able_to_Eat_Certain_Foods
  /SCALE('ALL VARIABLES') ALL
  /MODEL=ALPHA
  /STATISTICS=DESCRIPTIVE
  /SUMMARY=CORR.
```

## Reliability

## Scale: ALL VARIABLES

### Case Processing Summary

| | | N | % |
|---|---|---|---|
| Cases | Valid | 64 | 98.5 |
| | Excluded[a] | 1 | 1.5 |
| | Total | 65 | 100.0 |

a. Listwise deletion based on all variables in the procedure.

**Reliability Statistics**

| Cronbach's Alpha | Cronbach's Alpha Based on Standardized Items | N of Items |
|---|---|---|
| .625 | .618 | 4 |

**Item Statistics**

| | Mean | Std. Deviation | N |
|---|---|---|---|
| Miss_Friends_Birthdays | 2.59 | .583 | 64 |
| Parents_Fuss | 2.06 | .794 | 64 |
| Feel_Different_to_Friends | 1.95 | .844 | 64 |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | 2.00 | .756 | 64 |

**Summary Item Statistics**

| | Mean | Minimum | Maximum | Range | Maximum / Minimum | Variance |
|---|---|---|---|---|---|---|
| Inter-Item Correlations | .288 | .124 | .454 | .330 | 3.659 | .011 |

**Summary Item Statistics**

| | N of Items |
|---|---|
| Inter-Item Correlations | 4 |

```
FACTOR
  /VARIABLES Miss_Friends_BirthdaysParents_Fuss Feel_Different_to_Friends
    Get_Upset_Not_Able_to_Eat_Certain_Foods
  /MISSING LISTWISE
  /ANALYSIS Miss_Friends_BirthdaysParents_Fuss Feel_Different_to_Friends
    Get_Upset_Not_Able_to_Eat_Certain_Foods
  /PRINT INITIAL CORRELATION EXTRACTION
  /CRITERIA MINEIGEN(1) ITERATE(25)
  /EXTRACTION PC
  /ROTATION NOROTATE
  /METHOD=CORRELATION.
```

## Factor Analysis

## Correlation Matrix

| | | Miss_Friends_Birthdays | Parents_Fuss | Feel_Different_to_Friends |
|---|---|---|---|---|
| Correlation | Miss_Friends_Birthdays | 1.000 | .124 | .283 |
| | Parents_Fuss | .124 | 1.000 | .454 |
| | Feel_Different_to_Friends | .283 | .454 | 1.000 |
| | Get_Upset_Not_Able_to_Eat_Certain_Foods | .252 | .264 | .348 |

## Correlation Matrix

| | | Get_Upset_Not_Able_to_Eat_Certain_Foods |
|---|---|---|
| Correlation | Miss_Friends_Birthdays | .252 |
| | Parents_Fuss | .264 |
| | Feel_Different_to_Friends | .348 |
| | Get_Upset_Not_Able_to_Eat_Certain_Foods | 1.000 |

### Communalities

| | Initial | Extraction |
|---|---|---|
| Miss_Friends_Birthdays | 1.000 | .300 |
| Parents_Fuss | 1.000 | .480 |
| Feel_Different_to_Friends | 1.000 | .641 |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | 1.000 | .462 |

Extraction Method: Principal Component Analysis.

**Total Variance Explained**

| Component | Initial Eigenvalues | | | Extraction Sums of Squared Loadings | | |
|---|---|---|---|---|---|---|
| | Total | % of Variance | Cumulative % | Total | % of Variance | Cumulative % |
| 1 | 1.883 | 47.072 | 47.072 | 1.883 | 47.072 | 47.072 |
| 2 | .897 | 22.425 | 69.497 | | | |
| 3 | .709 | 17.717 | 87.214 | | | |
| 4 | .511 | 12.786 | 100.000 | | | |

Extraction Method: Principal Component Analysis.

**Component Matrix[a]**

| | Component 1 |
|---|---|
| Miss_Friends_Birthdays | .548 |
| Parents_Fuss | .693 |
| Feel_Different_to_Friends | .800 |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | .680 |

Extraction Method: Principal Component Analysis.

a. 1 components extracted.

```
ONEWAY Median_QoL BY Number_of_Allergens
  /STATISTICS HOMOGENEITY
  /MISSING ANALYSIS.
```

## Oneway

**Test of Homogeneity of Variances**

| | | Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|---|---|
| Median_QoL | Based on Mean | .677 | 2 | 61 | .512 |
| | Based on Median | .306 | 2 | 61 | .738 |
| | Based on Median and with adjusted df | .306 | 2 | 49.387 | .738 |
| | Based on trimmed mean | .622 | 2 | 61 | .540 |

**ANOVA**

Median_QoL

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 3.370 | 2 | 1.685 | 3.058 | .054 |
| Within Groups | 33.614 | 61 | .551 | | |
| Total | 36.984 | 63 | | | |

```
T-TEST GROUPS=Number_of_Allergens(1 2)
 /MISSING=ANALYSIS
 /VARIABLES=Median_QoL
 /CRITERIA=CI(.95).
```

## T-Test

**Group Statistics**

| | Number_of_Allergens | N | Mean | Std. Deviation | Std. Error Mean |
|---|---|---|---|---|---|
| Median_QoL | 1 Allergen | 15 | 2.33 | .816 | .211 |
| | 2 - 3 Allergens | 23 | 1.74 | .689 | .144 |

**Independent Samples Test**

| | | Levene's Test for Equality of Variances | | t-test for Equality of Means | |
|---|---|---|---|---|---|
| | | F | Sig. | t | df |
| Median_QoL | Equal variances assumed | 1.282 | .265 | 2.416 | 36 |
| | Equal variances not assumed | | | 2.329 | 26.390 |

**Independent Samples Test**

| | | t-test for Equality of Means | | |
|---|---|---|---|---|
| | | Sig. (2-tailed) | Mean Difference | Std. Error Difference |
| Median_QoL | Equal variances assumed | .021 | .594 | .246 |
| | Equal variances not assumed | .028 | .594 | .255 |

**Independent Samples Test**

| | | t-test for Equality of Means | |
|---|---|---|---|
| | | 95% Confidence Interval of the Difference | |
| | | Lower | Upper |
| Median_QoL | Equal variances assumed | .095 | 1.093 |
| | Equal variances not assumed | .070 | 1.118 |

```
T-TEST GROUPS=Number_of_Allergens(1 3)
  /MISSING=ANALYSIS
  /VARIABLES=Median_QoL
  /CRITERIA=CI(.95).
```

## T-Test

**Group Statistics**

| | Number_of_Allergens | N | Mean | Std. Deviation | Std. Error Mean |
|---|---|---|---|---|---|
| Median_QoL | 1 Allergen | 15 | 2.33 | .816 | .211 |
| | 4 Allergens or More | 26 | 2.08 | .744 | .146 |

**Independent Samples Test**

| | | Levene's Test for Equality of Variances | | t-test for Equality of Means | |
|---|---|---|---|---|---|
| | | F | Sig. | t | df |
| Median_QoL | Equal variances assumed | 1.054 | .311 | 1.026 | 39 |
| | Equal variances not assumed | | | 1.000 | 27.144 |

**Independent Samples Test**

| | | t-test for Equality of Means | | |
|---|---|---|---|---|
| | | Sig. (2-tailed) | Mean Difference | Std. Error Difference |
| Median_QoL | Equal variances assumed | .311 | .256 | .250 |
| | Equal variances not assumed | .326 | .256 | .256 |

**Independent Samples Test**

| | | t-test for Equality of Means | |
|---|---|---|---|
| | | 95% Confidence Interval of the Difference | |
| | | Lower | Upper |
| Median_QoL | Equal variances assumed | -.249 | .762 |
| | Equal variances not assumed | -.270 | .782 |

```
T-TEST GROUPS=Number_of_Allergen(2)
 /MISSING=ANALYSIS
 /VARIABLES=Median_QoL
 /CRITERIA=CI(.95).
```

## T-Test

## Group Statistics

| | Number_of_Allergens | N | Mean | Std. Deviation | Std. Error Mean |
|---|---|---|---|---|---|
| Median_QoL | >= 2 | 49 | 1.92 | .731 | .104 |
| | < 2 | 15 | 2.33 | .816 | .211 |

## Independent Samples Test

| | | Levene's Test for Equality of Variances | | t-test for Equality of Means | |
|---|---|---|---|---|---|
| | | F | Sig. | t | df |
| Median_QoL | Equal variances assumed | 1.322 | .255 | -1.871 | 62 |
| | Equal variances not assumed | | | -1.764 | 21.346 |

## Independent Samples Test

| | | t-test for Equality of Means | | |
|---|---|---|---|---|
| | | Sig. (2-tailed) | Mean Difference | Std. Error Difference |
| Median_QoL | Equal variances assumed | .066 | -.415 | .222 |
| | Equal variances not assumed | .092 | -.415 | .235 |

## Independent Samples Test

| | | t-test for Equality of Means | |
|---|---|---|---|
| | | 95% Confidence Interval of the Difference | |
| | | Lower | Upper |
| Median_QoL | Equal variances assumed | -.858 | .028 |
| | Equal variances not assumed | -.904 | .074 |

```
FREQUENCIES VARIABLES=KSA_Check_Adult KSA_Swap_Lunch KSA_Tell_Adult_if_Sick_After_Eating
  /ORDER=ANALYSIS.
```

## Frequencies

| | | KSA_Check_Adult | KSA_Swap_Lunch | KSA_Tell_Adult_if_Sick_After_Eating |
|---|---|---|---|---|
| N | Valid | 65 | 59 | 64 |
| | Missing | 0 | 6 | 1 |

## Frequency Table

**KSA Check Adult**

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 65 | 100.0 | 100.0 | 100.0 |

**KSA Swap Lunch**

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | No | 59 | 90.8 | 100.0 | 100.0 |
| Missing | 99 | 6 | 9.2 | | |
| Total | | 65 | 100.0 | | |

**KSA Tell Adult if Sick After Eating**

| | | Frequency | Percent | Valid Percent | Cumulative Percent |
|---|---|---|---|---|---|
| Valid | Yes | 63 | 96.9 | 98.4 | 98.4 |
| | No | 1 | 1.5 | 1.6 | 100.0 |
| | Total | 64 | 98.5 | 100.0 | |
| Missing | 99 | 1 | 1.5 | | |
| Total | | 65 | 100.0 | | |

## Additional Statistics - ANOVA, linear model

```
GLM Miss_Friends_BirthdaysParents_Fuss Feel_Different_to_Friends
   Get_Upset_Not_Able_to_Eat_Certain_FoodsBY Number_of_Allergens
 /METHOD=SSTYPE(3)
 /INTERCEPT=INCLUDE
 /POSTHOC=Number_of_Allergens(TUKEY LSD BONFERRONI GT2 GH)
 /EMMEANS=TABLES(Number_of_Allergens) COMPARE ADJ(LSD)
 /PRINT=DESCRIPTIVE ETASQ
 /CRITERIA=ALPHA(.05)
 /DESIGN= Number_of_Allergens
```

# General Linear Model

### Between-Subjects Factors

| | | Value Label | N |
|---|---|---|---|
| Number_of_Allergens | 1 | 1 Allergen | 15 |
| | 2 | 2 - 3 Allergens | 22 |
| | 3 | 4 Allergens or More | 27 |

### Descriptive Statistics

| | Number_of_Allergens | Mean | Std. Deviation | N |
|---|---|---|---|---|
| Miss_Friends_Birthdays | 1 Allergen | 2.53 | .640 | 15 |
| | 2 - 3 Allergens | 2.64 | .492 | 22 |
| | 4 Allergens or More | 2.59 | .636 | 27 |
| | Total | 2.59 | .583 | 64 |
| Parents_Fuss | 1 Allergen | 1.87 | .915 | 15 |
| | 2 - 3 Allergens | 2.23 | .685 | 22 |
| | 4 Allergens or More | 2.04 | .808 | 27 |
| | Total | 2.06 | .794 | 64 |
| Feel_Different_to_Friends | 1 Allergen | 1.73 | .884 | 15 |
| | 2 - 3 Allergens | 2.09 | .811 | 22 |
| | 4 Allergens or More | 1.96 | .854 | 27 |
| | Total | 1.95 | .844 | 64 |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | 1 Allergen | 1.73 | .799 | 15 |
| | 2 - 3 Allergens | 2.27 | .631 | 22 |
| | 4 Allergens or More | 1.93 | .781 | 27 |
| | Total | 2.00 | .756 | 64 |

**Multivariate Tests[a]**

| Effect | | Value | F | Hypothesis df | Error df |
|---|---|---|---|---|---|
| Intercept | Pillai's Trace | .961 | 359.312[b] | 4.000 | 58.000 |
| | Wilks' Lambda | .039 | 359.312[b] | 4.000 | 58.000 |
| | Hotelling's Trace | 24.780 | 359.312[b] | 4.000 | 58.000 |
| | Roy's Largest Root | 24.780 | 359.312[b] | 4.000 | 58.000 |
| Number_of_Allergens | Pillai's Trace | .094 | .724 | 8.000 | 118.000 |
| | Wilks' Lambda | .907 | .728[b] | 8.000 | 116.000 |
| | Hotelling's Trace | .102 | .730 | 8.000 | 114.000 |
| | Roy's Largest Root | .099 | 1.458[c] | 4.000 | 59.000 |

**Multivariate Tests[a]**

| Effect | | Sig. | Partial Eta Squared |
|---|---|---|---|
| Intercept | Pillai's Trace | .000 | .961 |
| | Wilks' Lambda | .000 | .961 |
| | Hotelling's Trace | .000 | .961 |
| | Roy's Largest Root | .000 | .961 |
| Number_of_Allergens | Pillai's Trace | .670 | .047 |
| | Wilks' Lambda | .667 | .048 |
| | Hotelling's Trace | .664 | .049 |
| | Roy's Largest Root | .227 | .090 |

a. Design: Intercept + Number_of_Allergens

b. Exact statistic

c. The statistic is an upper bound on F that yields a lower bound on the significance level.

## Estimated Marginal Means

## Number_of_Allergens

## Estimates

| Dependent Variable | Number_of_Allergens | Mean | Std. Error | 95% Confidence Interval | |
|---|---|---|---|---|---|
| | | | | Lower Bound | Upper Bound |
| Miss_Friends_Birthdays | 1 Allergen | 2.533 | .153 | 2.228 | 2.839 |
| | 2 - 3 Allergens | 2.636 | .126 | 2.384 | 2.889 |
| | 4 Allergens or More | 2.593 | .114 | 2.365 | 2.820 |
| Parents_Fuss | 1 Allergen | 1.867 | .205 | 1.456 | 2.277 |
| | 2 - 3 Allergens | 2.227 | .170 | 1.888 | 2.566 |
| | 4 Allergens or More | 2.037 | .153 | 1.731 | 2.343 |
| Feel_Different_to_Friends | 1 Allergen | 1.733 | .219 | 1.296 | 2.170 |
| | 2 - 3 Allergens | 2.091 | .180 | 1.730 | 2.452 |
| | 4 Allergens or More | 1.963 | .163 | 1.637 | 2.289 |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | 1 Allergen | 1.733 | .190 | 1.353 | 2.114 |
| | 2 - 3 Allergens | 2.273 | .157 | 1.958 | 2.587 |
| | 4 Allergens or More | 1.926 | .142 | 1.642 | 2.210 |

## Pairwise Comparisons

| Dependent Variable | (I) Number_of_Allergens | (J) Number_of_Allergens | Mean Difference (I-J) |
|---|---|---|---|
| Miss_Friends_Birthdays | 1 Allergen | 2 - 3 Allergens | -.103 |
| | | 4 Allergens or More | -.059 |
| | 2 - 3 Allergens | 1 Allergen | .103 |
| | | 4 Allergens or More | .044 |
| | 4 Allergens or More | 1 Allergen | .059 |
| | | 2 - 3 Allergens | -.044 |
| Parents_Fuss | 1 Allergen | 2 - 3 Allergens | -.361 |
| | | 4 Allergens or More | -.170 |
| | 2 - 3 Allergens | 1 Allergen | .361 |
| | | 4 Allergens or More | .190 |
| | 4 Allergens or More | 1 Allergen | .170 |
| | | 2 - 3 Allergens | -.190 |
| Feel_Different_to_Friends | 1 Allergen | 2 - 3 Allergens | -.358 |
| | | 4 Allergens or More | -.230 |
| | 2 - 3 Allergens | 1 Allergen | .358 |
| | | 4 Allergens or More | .128 |

## Pairwise Comparisons

| Dependent Variable | (I) Number_of_Allergens | (J) Number_of_Allergens | Std. Error | Sig.[b] |
|---|---|---|---|---|
| Miss_Friends_Birthdays | 1 Allergen | 2 - 3 Allergens | .198 | .605 |
| | | 4 Allergens or More | .190 | .757 |
| | 2 - 3 Allergens | 1 Allergen | .198 | .605 |
| | | 4 Allergens or More | .170 | .798 |
| | 4 Allergens or More | 1 Allergen | .190 | .757 |
| | | 2 - 3 Allergens | .170 | .798 |
| Parents_Fuss | 1 Allergen | 2 - 3 Allergens | .266 | .181 |
| | | 4 Allergens or More | .256 | .508 |
| | 2 - 3 Allergens | 1 Allergen | .266 | .181 |
| | | 4 Allergens or More | .228 | .408 |
| | 4 Allergens or More | 1 Allergen | .256 | .508 |
| | | 2 - 3 Allergens | .228 | .408 |
| Feel_Different_to_Friends | 1 Allergen | 2 - 3 Allergens | .283 | .212 |
| | | 4 Allergens or More | .273 | .403 |
| | 2 - 3 Allergens | 1 Allergen | .283 | .212 |
| | | 4 Allergens or More | .243 | .601 |

## Pairwise Comparisons

| Dependent Variable | (I) Number_of_Allergens | (J) Number_of_Allergens | 95% Confidence [b] ... Lower Bound |
|---|---|---|---|
| Miss_Friends_Birthdays | 1 Allergen | 2 - 3 Allergens | -.499 |
| | | 4 Allergens or More | -.440 |
| | 2 - 3 Allergens | 1 Allergen | -.293 |
| | | 4 Allergens or More | -.296 |
| | 4 Allergens or More | 1 Allergen | -.322 |
| | | 2 - 3 Allergens | -.383 |
| Parents_Fuss | 1 Allergen | 2 - 3 Allergens | -.893 |
| | | 4 Allergens or More | -.682 |
| | 2 - 3 Allergens | 1 Allergen | -.172 |
| | | 4 Allergens or More | -.266 |
| | 4 Allergens or More | 1 Allergen | -.342 |
| | | 2 - 3 Allergens | -.647 |
| Feel_Different_to_Friends | 1 Allergen | 2 - 3 Allergens | -.924 |
| | | 4 Allergens or More | -.775 |
| | 2 - 3 Allergens | 1 Allergen | -.209 |
| | | 4 Allergens or More | -.358 |

## Pairwise Comparisons

| Dependent Variable | (I) Number_of_Allergens | (J) Number_of_Allergens | 95% Confidence Interval for [b]... Upper Bound |
|---|---|---|---|
| Miss_Friends_Birthdays | 1 Allergen | 2 - 3 Allergens | .293 |
| | | 4 Allergens or More | .322 |
| | 2 - 3 Allergens | 1 Allergen | .499 |
| | | 4 Allergens or More | .383 |
| | 4 Allergens or More | 1 Allergen | .440 |
| | | 2 - 3 Allergens | .296 |
| Parents_Fuss | 1 Allergen | 2 - 3 Allergens | .172 |
| | | 4 Allergens or More | .342 |
| | 2 - 3 Allergens | 1 Allergen | .893 |
| | | 4 Allergens or More | .647 |
| | 4 Allergens or More | 1 Allergen | .682 |
| | | 2 - 3 Allergens | .266 |
| Feel_Different_to_Friends | 1 Allergen | 2 - 3 Allergens | .209 |
| | | 4 Allergens or More | .315 |
| | 2 - 3 Allergens | 1 Allergen | .924 |
| | | 4 Allergens or More | .614 |

## Pairwise Comparisons

| Dependent Variable | (I) Number of Allergens | (J) Number of Allergens | Mean Difference (I-J) |
|---|---|---|---|
| | 4 Allergens or More | 1 Allergen | .230 |
| | | 2 - 3 Allergens | -.128 |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | 1 Allergen | 2 - 3 Allergens | -.539* |
| | | 4 Allergens or More | -.193 |
| | 2 - 3 Allergens | 1 Allergen | .539* |
| | | 4 Allergens or More | .347 |
| | 4 Allergens or More | 1 Allergen | .193 |
| | | 2 - 3 Allergens | -.347 |

## Pairwise Comparisons

| Dependent Variable | (I) Number of Allergens | (J) Number of Allergens | Std. Error | Sig.[b] |
|---|---|---|---|---|
| Get_Upset_Not_Able_to_Eat_Certain_Foods | 4 Allergens or More | 1 Allergen | .273 | .403 |
| | | 2 - 3 Allergens | .243 | .601 |
| | 1 Allergen | 2 - 3 Allergens | .247 | .033 |
| | | 4 Allergens or More | .237 | .420 |
| | 2 - 3 Allergens | 1 Allergen | .247 | .033 |
| | | 4 Allergens or More | .212 | .107 |
| | 4 Allergens or More | 1 Allergen | .237 | .420 |
| | | 2 - 3 Allergens | .212 | .107 |

## Pairwise Comparisons

| Dependent Variable | (I) Number of Allergens | (J) Number of Allergens | 95% Confidence [b]... Lower Bound |
|---|---|---|---|
| Get_Upset_Not_Able_to_Eat_Certain_Foods | 4 Allergens or More | 1 Allergen | -.315 |
| | | 2 - 3 Allergens | -.614 |
| | 1 Allergen | 2 - 3 Allergens | -1.033 |
| | | 4 Allergens or More | -.667 |
| | 2 - 3 Allergens | 1 Allergen | .046 |
| | | 4 Allergens or More | -.077 |
| | 4 Allergens or More | 1 Allergen | -.282 |
| | | 2 - 3 Allergens | -.770 |

## Pairwise Comparisons

| Dependent Variable | (I) Number of Allergens | (J) Number of Allergens | 95% Confidence Interval for [b]... Upper Bound |
|---|---|---|---|
| Get_Upset_Not_Able_to_Eat_Certain_Foods | 4 Allergens or More | 1 Allergen | .775 |
| | | 2 - 3 Allergens | .358 |
| | 1 Allergen | 2 - 3 Allergens | -.046 |
| | | 4 Allergens or More | .282 |
| | 2 - 3 Allergens | 1 Allergen | 1.033 |
| | | 4 Allergens or More | .770 |
| | 4 Allergens or More | 1 Allergen | .667 |
| | | 2 - 3 Allergens | .077 |

Based on estimated marginal means

*. The mean difference is significant at the .05 level.

b. Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

## Multivariate Tests

| | Value | F | Hypothesis df | Error df | Sig. | Partial Eta Squared |
|---|---|---|---|---|---|---|
| Pillai's trace | .094 | .724 | 8.000 | 118.000 | .670 | .047 |
| Wilks' lambda | .907 | .728[a] | 8.000 | 116.000 | .667 | .048 |
| Hotelling's trace | .102 | .730 | 8.000 | 114.000 | .664 | .049 |
| Roy's largest root | .099 | 1.458[b] | 4.000 | 59.000 | .227 | .090 |

Each F tests the multivariate effect of Number_of_Allergens. These tests are based on the linearly independent pairwise comparisons among the estimated marginal means.

a. Exact statistic

b. The statistic is an upper bound on F that yields a lower bound on the significance level.

## Univariate Tests

| Dependent Variable | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| Miss_Friends_Birthdays | Contrast | .095 | 2 | .047 | .135 | .874 |
| | Error | 21.343 | 61 | .350 | | |
| Parents_Fuss | Contrast | 1.190 | 2 | .595 | .941 | .396 |
| | Error | 38.560 | 61 | .632 | | |
| Feel_Different_to_Friends | Contrast | 1.145 | 2 | .572 | .799 | .455 |
| | Error | 43.714 | 61 | .717 | | |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | Contrast | 2.851 | 2 | 1.426 | 2.623 | .081 |
| | Error | 33.149 | 61 | .543 | | |

## Univariate Tests

| Dependent Variable | | Partial Eta Squared |
|---|---|---|
| Miss_Friends_Birthdays | Contrast | .004 |
| | Error | |
| Parents_Fuss | Contrast | .030 |
| | Error | |
| Feel_Different_to_Friends | Contrast | .026 |
| | Error | |
| Get_Upset_Not_Able_to_Eat_Certain_Foods | Contrast | .079 |
| | Error | |

The F tests the effect of Number_of_Allergens. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.

## Post Hoc Tests

## Number_of_Allergens

## Homogeneous Subsets

### Miss_Friends_Birthdays

| | Number_of_Allergens | N | Subset 1 |
|---|---|---|---|
| Tukey HSD[a,b,c] | 1 Allergen | 15 | 2.53 |
| | 4 Allergens or More | 27 | 2.59 |
| | 2 - 3 Allergens | 22 | 2.64 |
| | Sig. | | .846 |
| Hochberg[a,b,c] | 1 Allergen | 15 | 2.53 |
| | 4 Allergens or More | 27 | 2.59 |
| | 2 - 3 Allergens | 22 | 2.64 |
| | Sig. | | .926 |

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .350.

a. Uses Harmonic Mean Sample Size = 20.113.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.

## Parents_Fuss

| | Number_of_Allergens | N | Subset 1 |
|---|---|---|---|
| Tukey HSD[a,b,c] | 1 Allergen | 15 | 1.87 |
| | 4 Allergens or More | 27 | 2.04 |
| | 2 - 3 Allergens | 22 | 2.23 |
| | Sig. | | .328 |
| Hochberg[a,b,c] | 1 Allergen | 15 | 1.87 |
| | 4 Allergens or More | 27 | 2.04 |
| | 2 - 3 Allergens | 22 | 2.23 |
| | Sig. | | .394 |

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .632.

a. Uses Harmonic Mean Sample Size = 20.113.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.

## Feel_Different_to_Friends

| | Number_of_Allergens | N | Subset 1 |
|---|---|---|---|
| Tukey HSD[a,b,c] | 1 Allergen | 15 | 1.73 |
| | 4 Allergens or More | 27 | 1.96 |
| | 2 - 3 Allergens | 22 | 2.09 |
| | Sig. | | .379 |
| Hochberg[a,b,c] | 1 Allergen | 15 | 1.73 |
| | 4 Allergens or More | 27 | 1.96 |
| | 2 - 3 Allergens | 22 | 2.09 |
| | Sig. | | .456 |

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .717.

a. Uses Harmonic Mean Sample Size = 20.113.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.

### Get_Upset_Not_Able_to_Eat_Certain_Foods

| | Number_of_Allergens | N | Subset 1 |
|---|---|---|---|
| Tukey HSD[a,b,c] | 1 Allergen | 15 | 1.73 |
| | 4 Allergens or More | 27 | 1.93 |
| | 2 - 3 Allergens | 22 | 2.27 |
| | Sig. | | .060 |
| Hochberg[a,b,c] | 1 Allergen | 15 | 1.73 |
| | 4 Allergens or More | 27 | 1.93 |
| | 2 - 3 Allergens | 22 | 2.27 |
| | Sig. | | .069 |

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .543.

a. Uses Harmonic Mean Sample Size = 20.113.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.

## Regression

```
[DataSet3] E:\MASTER_Under 8years.sav
```

### Variables Entered/Removed[a]

| Model | Variables Entered | Variables Removed | Method |
|---|---|---|---|
| 1 | Gender[b] | . | Enter |

a. Dependent Variable: Miss_Friends_Birthdays

b. All requested variables entered.

### Model Summary[b]

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .157[a] | .025 | .009 | .581 |

a. Predictors: (Constant), Gender

b. Dependent Variable: Miss_Friends_Birthdays

## ANOVA[a]

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | .521 | 1 | .521 | 1.545 | .219[b] |
| | Residual | 20.559 | 61 | .337 | | |
| | Total | 21.079 | 62 | | | |

a. Dependent Variable: Miss_Friends_Birthdays

b. Predictors: (Constant), Gender

## Coefficients[a]

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|---|---|---|---|---|---|---|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | 2.346 | .220 | | 10.685 | .000 |
| | Gender | .191 | .153 | .157 | 1.243 | .219 |

## Coefficients[a]

| Model | | 95.0% Confidence Interval for B | | Collinearity Statistics | |
|---|---|---|---|---|---|
| | | Lower Bound | Upper Bound | Tolerance | VIF |
| 1 | (Constant) | 1.907 | 2.785 | | |
| | Gender | -.116 | .497 | 1.000 | 1.000 |

a. Dependent Variable: Miss_Friends_Birthdays

## Collinearity Diagnostics[a]

| Model | Dimension | Eigenvalue | Condition Index | Variance Proportions | |
|---|---|---|---|---|---|
| | | | | (Constant) | Gender |
| 1 | 1 | 1.943 | 1.000 | .03 | .03 |
| | 2 | .057 | 5.832 | .97 | .97 |

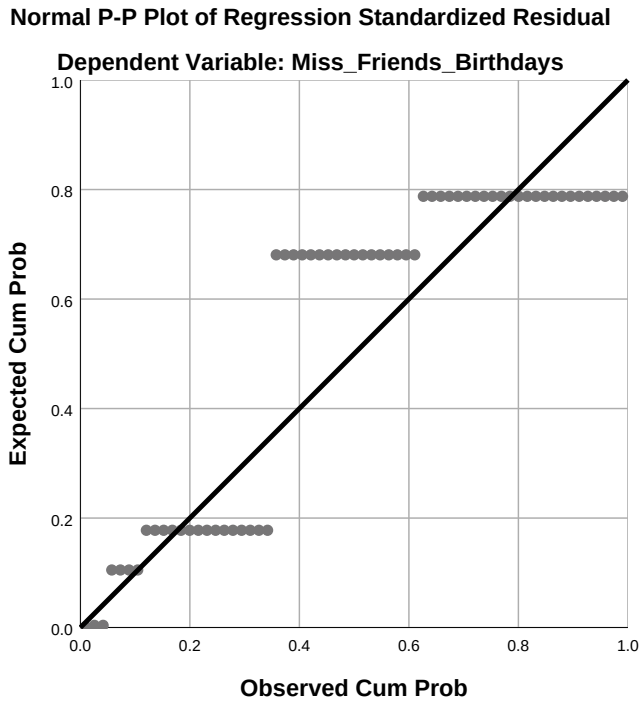
a. Dependent Variable: Miss_Friends_Birthdays

**Residuals Statistics[a]**

| | Minimum | Maximum | Mean | Std. Deviation | N |
|---|---|---|---|---|---|
| Predicted Value | 2.54 | 2.73 | 2.60 | .092 | 63 |
| Residual | -1.727 | .463 | .000 | .576 | 63 |
| Std. Predicted Value | -.727 | 1.354 | .000 | 1.000 | 63 |
| Std. Residual | -2.975 | .798 | .000 | .992 | 63 |

a. Dependent Variable: Miss_Friends_Birthdays

## Charts




```
REGRESSION
 /MISSING LISTWISE
 /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL
 /CRITERIA=PIN(.05) POUT(.10)
 /NOORIGIN
 /DEPENDENT Parents_Fuss
 /METHOD=ENTER Gender
 /SCATTERPLOT=(*ZRESID ,*ZPRED)
 /RESIDUALS NORMPROB(ZRESID).
```

# Regression

### Variables Entered/Removed[a]

| Model | Variables Entered | Variables Removed | Method |
|---|---|---|---|
| 1 | Gender[b] | . | Enter |

a. Dependent Variable: Parents_Fuss

b. All requested variables entered.

### Model Summary[b]

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .096[a] | .009 | -.007 | .792 |

a. Predictors: (Constant), Gender

b. Dependent Variable: Parents_Fuss

### ANOVA[a]

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | .355 | 1 | .355 | .566 | .455[b] |
| | Residual | 38.248 | 61 | .627 | | |
| | Total | 38.603 | 62 | | | |

a. Dependent Variable: Parents_Fuss

b. Predictors: (Constant), Gender

### Coefficients[a]

| Model | | Unstandardized Coefficients | | Standardized Coefficients | | |
|---|---|---|---|---|---|---|
| | | B | Std. Error | Beta | t | Sig. |
| 1 | (Constant) | 1.867 | .299 | | 6.235 | .000 |
| | Gender | .157 | .209 | .096 | .752 | .455 |

### Coefficients[a]

| Model | | 95.0% Confidence Interval for B | | Collinearity Statistics | |
|---|---|---|---|---|---|
| | | Lower Bound | Upper Bound | Tolerance | VIF |
| 1 | (Constant) | 1.268 | 2.466 | | |
| | Gender | -.261 | .576 | 1.000 | 1.000 |

a. Dependent Variable: Parents_Fuss

### Collinearity Diagnostics[a]

| Model | Dimension | Eigenvalue | Condition Index | Variance Proportions | |
|---|---|---|---|---|---|
| | | | | (Constant) | Gender |
| 1 | 1 | 1.943 | 1.000 | .03 | .03 |
| | 2 | .057 | 5.832 | .97 | .97 |

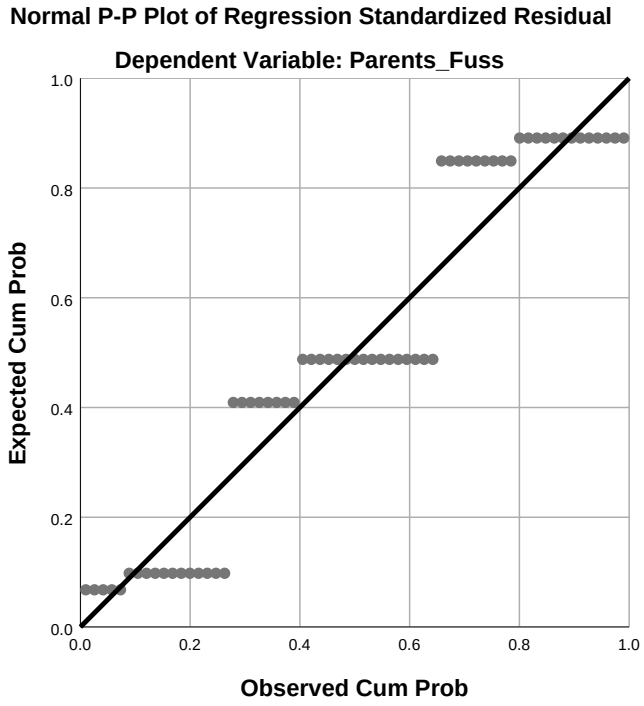
a. Dependent Variable: Parents_Fuss

### Residuals Statistics[a]

| | Minimum | Maximum | Mean | Std. Deviation | N |
|---|---|---|---|---|---|
| Predicted Value | 2.02 | 2.18 | 2.08 | .076 | 63 |
| Residual | -1.182 | .976 | .000 | .785 | 63 |
| Std. Predicted Value | -.727 | 1.354 | .000 | 1.000 | 63 |
| Std. Residual | -1.492 | 1.232 | .000 | .992 | 63 |

a. Dependent Variable: Parents_Fuss

## Charts




```
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Feel_Different_to_Friends
  /METHOD=ENTER Gender
  /SCATTERPLOT=(*ZRESID ,*ZPRED)
  /RESIDUALS NORMPROB(ZRESID).
```

# Regression

### Variables Entered/Removed[a]

| Model | Variables Entered | Variables Removed | Method |
|---|---|---|---|
| 1 | Gender[b] | . | Enter |

a. Dependent Variable: Feel_Different_to_Friends

b. All requested variables entered.

**Model Summary[b]**

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .012[a] | .000 | -.016 | .849 |

a. Predictors: (Constant), Gender

b. Dependent Variable: Feel_Different_to_Friends

**ANOVA[a]**

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | .006 | 1 | .006 | .009 | .925[b] |
| | Residual | 43.930 | 61 | .720 | | |
| | Total | 43.937 | 62 | | | |

a. Dependent Variable: Feel_Different_to_Friends

b. Predictors: (Constant), Gender

**Coefficients[a]**

| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|---|---|---|---|---|---|---|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | 1.997 | .321 | | 6.222 | .000 |
| | Gender | -.021 | .224 | -.012 | -.094 | .925 |

**Coefficients[a]**

| Model | | 95.0% Confidence Interval for B | | Collinearity Statistics | |
|---|---|---|---|---|---|
| | | Lower Bound | Upper Bound | Tolerance | VIF |
| 1 | (Constant) | 1.355 | 2.638 | | |
| | Gender | -.470 | .427 | 1.000 | 1.000 |

a. Dependent Variable: Feel_Different_to_Friends

**Collinearity Diagnostics[a]**

| Model | Dimension | Eigenvalue | Condition Index | Variance Proportions (Constant) | Variance Proportions Gender |
|---|---|---|---|---|---|
| 1 | 1 | 1.943 | 1.000 | .03 | .03 |
| | 2 | .057 | 5.832 | .97 | .97 |

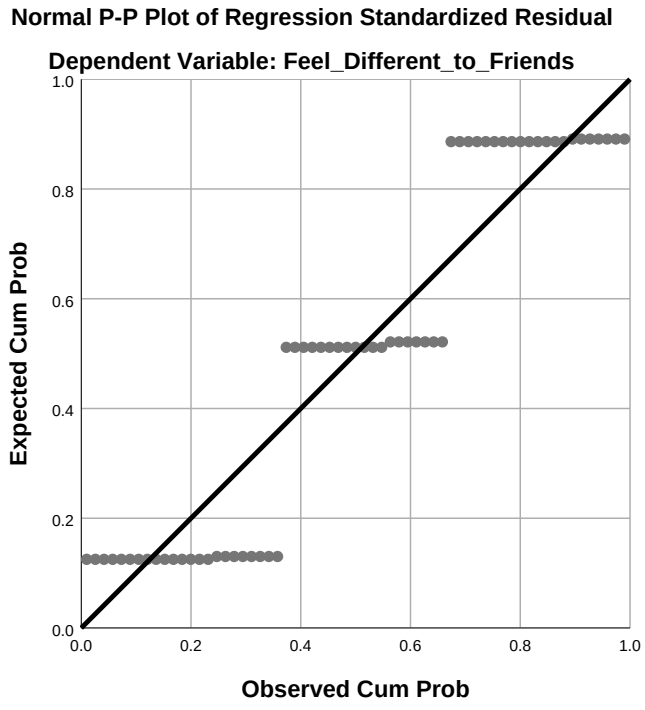
a. Dependent Variable: Feel_Different_to_Friends

**Residuals Statistics[a]**

| | Minimum | Maximum | Mean | Std. Deviation | N |
|---|---|---|---|---|---|
| Predicted Value | 1.95 | 1.98 | 1.97 | .010 | 63 |
| Residual | -.976 | 1.045 | .000 | .842 | 63 |
| Std. Predicted Value | -1.354 | .727 | .000 | 1.000 | 63 |
| Std. Residual | -1.150 | 1.232 | .000 | .992 | 63 |

a. Dependent Variable: Feel_Different_to_Friends

## Charts




```
REGRESSION
```

```
/MISSING LISTWISE
/STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL
/CRITERIA=PIN(.05) POUT(.10)
/NOORIGIN
/DEPENDENT Get_Upset_Not_Able_to_Eat_Certain_Foods
/METHOD=ENTER Gender
/SCATTERPLOT=(*ZRESID ,*ZPRED)
/RESIDUALS NORMPROB(ZRESID).
```

# Regression

### Variables Entered/Removed[a]

| Model | Variables Entered | Variables Removed | Method |
|---|---|---|---|
| 1 | Gender[b] | . | Enter |

a. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods

b. All requested variables entered.

### Model Summary[b]

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .044[a] | .002 | -.014 | .767 |

a. Predictors: (Constant), Gender

b. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods

### ANOVA[a]

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | .070 | 1 | .070 | .119 | .732[b] |
| | Residual | 35.930 | 61 | .589 | | |
| | Total | 36.000 | 62 | | | |

a. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods

b. Predictors: (Constant), Gender

### Coefficients[a]

| Model | | Unstandardized Coefficients | | Standardized Coefficients | | |
|---|---|---|---|---|---|---|
| | | B | Std. Error | Beta | t | Sig. |
| 1 | (Constant) | 1.906 | .290 | | 6.566 | .000 |
| | Gender | .070 | .203 | .044 | .344 | .732 |

### Coefficients[a]

| Model | | 95.0% Confidence Interval for B | | Collinearity Statistics | |
|---|---|---|---|---|---|
| | | Lower Bound | Upper Bound | Tolerance | VIF |
| 1 | (Constant) | 1.325 | 2.486 | | |
| | Gender | -.336 | .475 | 1.000 | 1.000 |

a. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods

### Collinearity Diagnostics[a]

| Model | Dimension | Eigenvalue | Condition Index | Variance Proportions | |
|---|---|---|---|---|---|
| | | | | (Constant) | Gender |
| 1 | 1 | 1.943 | 1.000 | .03 | .03 |
| | 2 | .057 | 5.832 | .97 | .97 |

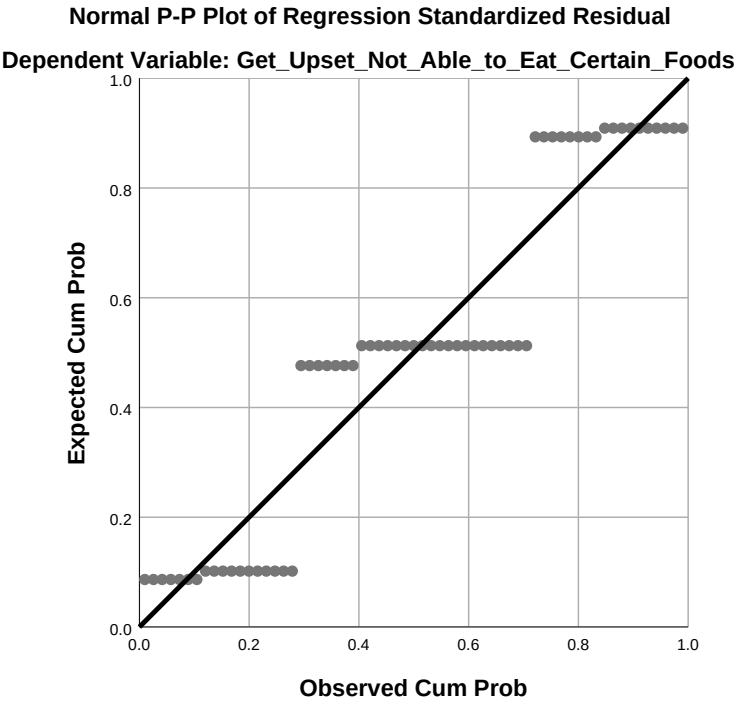
a. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods

### Residuals Statistics[a]

| | Minimum | Maximum | Mean | Std. Deviation | N |
|---|---|---|---|---|---|
| Predicted Value | 1.98 | 2.05 | 2.00 | .034 | 63 |
| Residual | -1.045 | 1.024 | .000 | .761 | 63 |
| Std. Predicted Value | -.727 | 1.354 | .000 | 1.000 | 63 |
| Std. Residual | -1.362 | 1.335 | .000 | .992 | 63 |

a. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods

## Charts




```
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Miss_Friends_Birthdays
  /METHOD=ENTER Number_of_Allergens
  /SCATTERPLOT=(*ZRESID ,*ZPRED)
  /RESIDUALS NORMPROB(ZRESID).
```

# Regression

### Variables Entered/Removed[a]

| Model | Variables Entered | Variables Removed | Method |
|---|---|---|---|
| 1 | Number_of_Allergens[b] | . | Enter |

a. Dependent Variable: Miss_Friends_Birthdays

b. All requested variables entered.

**Model Summary[b]**

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .030[a] | .001 | -.015 | .588 |

a. Predictors: (Constant), Number_of_Allergens

b. Dependent Variable: Miss_Friends_Birthdays

**ANOVA[a]**

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | .019 | 1 | .019 | .056 | .814[b] |
| | Residual | 21.418 | 62 | .345 | | |
| | Total | 21.438 | 63 | | | |

a. Dependent Variable: Miss_Friends_Birthdays

b. Predictors: (Constant), Number_of_Allergens

**Coefficients[a]**

| Model | | Unstandardized Coefficients | | Standardized Coefficients | | |
|---|---|---|---|---|---|---|
| | | B | Std. Error | Beta | t | Sig. |
| 1 | (Constant) | 2.546 | .217 | | 11.744 | .000 |
| | Number_of_Allergens | .022 | .093 | .030 | .236 | .814 |

**Coefficients[a]**

| Model | | 95.0% Confidence Interval for B | | Collinearity Statistics | |
|---|---|---|---|---|---|
| | | Lower Bound | Upper Bound | Tolerance | VIF |
| 1 | (Constant) | 2.112 | 2.979 | | |
| | Number_of_Allergens | -.164 | .208 | 1.000 | 1.000 |

a. Dependent Variable: Miss_Friends_Birthdays

**Collinearity Diagnostics**[a]

| Model | Dimension | Eigenvalue | Condition Index | Variance Proportions (Constant) | Variance Proportions Number_of_All ergens |
|---|---|---|---|---|---|
| 1 | 1 | 1.941 | 1.000 | .03 | .03 |
| | 2 | .059 | 5.726 | .97 | .97 |

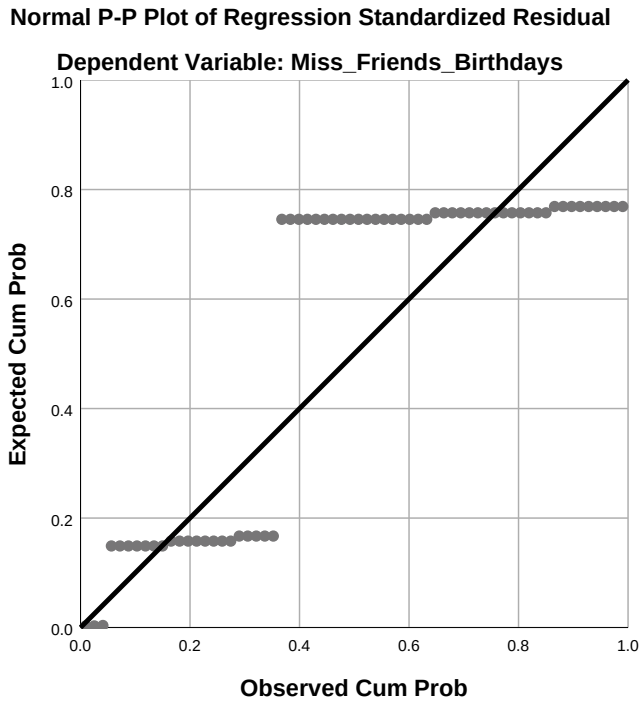
a. Dependent Variable: Miss_Friends_Birthdays

**Residuals Statistics**[a]

| | Minimum | Maximum | Mean | Std. Deviation | N |
|---|---|---|---|---|---|
| Predicted Value | 2.57 | 2.61 | 2.59 | .017 | 64 |
| Residual | -1.612 | .432 | .000 | .583 | 64 |
| Std. Predicted Value | -1.495 | 1.023 | .000 | 1.000 | 64 |
| Std. Residual | -2.742 | .736 | .000 | .992 | 64 |

a. Dependent Variable: Miss_Friends_Birthdays

## Charts



```
REGRESSION
 /MISSING LISTWISE
 /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL
 /CRITERIA=PIN(.05) POUT(.10)
 /NOORIGIN
 /DEPENDENT Parents_Fuss
 /METHOD=ENTER Number_of_Allergens
 /SCATTERPLOT=(*ZRESID ,*ZPRED)
 /RESIDUALS NORMPROB(ZRESID).
```

# Regression

### Variables Entered/Removed[a]

| Model | Variables Entered | Variables Removed | Method |
|---|---|---|---|
| 1 | Number_of_Allergens[b] | . | Enter |

a. Dependent Variable: Parents_Fuss

b. All requested variables entered.

### Model Summary[b]

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .057[a] | .003 | -.013 | .799 |

a. Predictors: (Constant), Number_of_Allergens

b. Dependent Variable: Parents_Fuss

### ANOVA[a]

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | .127 | 1 | .127 | .199 | .657[b] |
| | Residual | 39.623 | 62 | .639 | | |
| | Total | 39.750 | 63 | | | |

a. Dependent Variable: Parents_Fuss

b. Predictors: (Constant), Number_of_Allergens

### Coefficients[a]

| Model | | Unstandardized Coefficients | | Standardized Coefficients | | |
|---|---|---|---|---|---|---|
| | | B | Std. Error | Beta | t | Sig. |
| 1 | (Constant) | 1.939 | .295 | | 6.576 | .000 |
| | Number_of_Allergens | .057 | .127 | .057 | .446 | .657 |

### Coefficients[a]

| Model | | 95.0% Confidence Interval for B | | Collinearity Statistics | |
|---|---|---|---|---|---|
| | | Lower Bound | Upper Bound | Tolerance | VIF |
| 1 | (Constant) | 1.349 | 2.528 | | |
| | Number_of_Allergens | -.197 | .310 | 1.000 | 1.000 |

a. Dependent Variable: Parents_Fuss

### Collinearity Diagnostics[a]

| Model | Dimension | Eigenvalue | Condition Index | Variance Proportions | |
|---|---|---|---|---|---|
| | | | | (Constant) | Number_of_Allergens |
| 1 | 1 | 1.941 | 1.000 | .03 | .03 |
| | 2 | .059 | 5.726 | .97 | .97 |

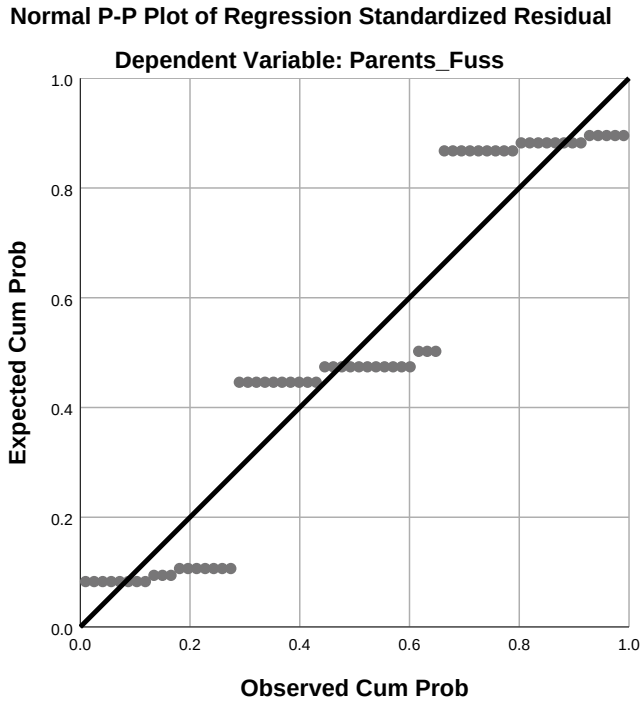
a. Dependent Variable: Parents_Fuss

### Residuals Statistics[a]

| | Minimum | Maximum | Mean | Std. Deviation | N |
|---|---|---|---|---|---|
| Predicted Value | 2.00 | 2.11 | 2.06 | .045 | 64 |
| Residual | -1.108 | 1.005 | .000 | .793 | 64 |
| Std. Predicted Value | -1.495 | 1.023 | .000 | 1.000 | 64 |
| Std. Residual | -1.387 | 1.257 | .000 | .992 | 64 |

a. Dependent Variable: Parents_Fuss

## Charts




```
REGRESSION
  /MISSING LISTWISE
  /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL
  /CRITERIA=PIN(.05) POUT(.10)
  /NOORIGIN
  /DEPENDENT Feel_Different_to_Friends
  /METHOD=ENTER Number_of_Allergens
  /SCATTERPLOT=(*ZRESID ,*ZPRED)
  /RESIDUALS NORMPROB(ZRESID).
```

# Regression

### Variables Entered/Removed[a]

| Model | Variables Entered | Variables Removed | Method |
|---|---|---|---|
| 1 | Number_of_Allergens[b] | . | Enter |

a. Dependent Variable: Feel_Different_to_Friends

b. All requested variables entered.

**Model Summary[b]**

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .084[a] | .007 | -.009 | .848 |

a. Predictors: (Constant), Number_of_Allergens

b. Dependent Variable: Feel_Different_to_Friends

**ANOVA[a]**

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | .319 | 1 | .319 | .444 | .507[b] |
| | Residual | 44.540 | 62 | .718 | | |
| | Total | 44.859 | 63 | | | |

a. Dependent Variable: Feel_Different_to_Friends

b. Predictors: (Constant), Number_of_Allergens

**Coefficients[a]**

| Model | | Unstandardized Coefficients | | Standardized Coefficients | | |
|---|---|---|---|---|---|---|
| | | B | Std. Error | Beta | t | Sig. |
| 1 | (Constant) | 1.757 | .313 | | 5.621 | .000 |
| | Number_of_Allergens | .090 | .134 | .084 | .667 | .507 |

**Coefficients[a]**

| Model | | 95.0% Confidence Interval for B | | Collinearity Statistics | |
|---|---|---|---|---|---|
| | | Lower Bound | Upper Bound | Tolerance | VIF |
| 1 | (Constant) | 1.132 | 2.382 | | |
| | Number_of_Allergens | -.179 | .358 | 1.000 | 1.000 |

a. Dependent Variable: Feel_Different_to_Friends

**Collinearity Diagnostics**[a]

| Model | Dimension | Eigenvalue | Condition Index | Variance Proportions (Constant) | Variance Proportions Number_of_Allergens |
|---|---|---|---|---|---|
| 1 | 1 | 1.941 | 1.000 | .03 | .03 |
| | 2 | .059 | 5.726 | .97 | .97 |

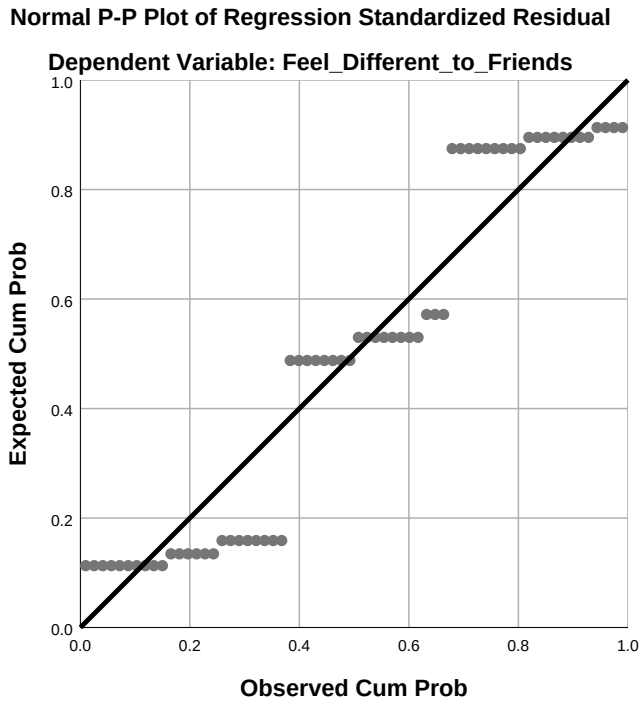
a. Dependent Variable: Feel_Different_to_Friends

**Residuals Statistics**[a]

| | Minimum | Maximum | Mean | Std. Deviation | N |
|---|---|---|---|---|---|
| Predicted Value | 1.85 | 2.03 | 1.95 | .071 | 64 |
| Residual | -1.026 | 1.153 | .000 | .841 | 64 |
| Std. Predicted Value | -1.495 | 1.023 | .000 | 1.000 | 64 |
| Std. Residual | -1.210 | 1.361 | .000 | .992 | 64 |

a. Dependent Variable: Feel_Different_to_Friends

## Charts



```
REGRESSION
 /MISSING LISTWISE
 /STATISTICS COEFF OUTS CI(95) R ANOVA COLLIN TOL
 /CRITERIA=PIN(.05) POUT(.10)
 /NOORIGIN
 /DEPENDENT Get_Upset_Not_Able_to_Eat_Certain_Foods
 /METHOD=ENTER Number_of_Allergens
 /SCATTERPLOT=(*ZRESID ,*ZPRED)
 /RESIDUALS NORMPROB(ZRESID).
```

# Regression

### Variables Entered/Removed[a]

| Model | Variables Entered | Variables Removed | Method |
|---|---|---|---|
| 1 | Number_of_Allergens[b] | . | Enter |

a. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods

b. All requested variables entered.

### Model Summary[b]

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .053[a] | .003 | -.013 | .761 |

a. Predictors: (Constant), Number_of_Allergens

b. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods

### ANOVA[a]

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | .101 | 1 | .101 | .174 | .678[b] |
| | Residual | 35.899 | 62 | .579 | | |
| | Total | 36.000 | 63 | | | |

a. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods

b. Predictors: (Constant), Number_of_Allergens

## Coefficients[a]

| Model | | Unstandardized Coefficients | | Standardized Coefficients | | |
|---|---|---|---|---|---|---|
| | | B | Std. Error | Beta | t | Sig. |
| 1 | (Constant) | 1.890 | .281 | | 6.735 | .000 |
| | Number_of_Allergens | .050 | .121 | .053 | .417 | .678 |

## Coefficients[a]

| Model | | 95.0% Confidence Interval for B | | Collinearity Statistics | |
|---|---|---|---|---|---|
| | | Lower Bound | Upper Bound | Tolerance | VIF |
| 1 | (Constant) | 1.329 | 2.451 | | |
| | Number_of_Allergens | -.191 | .292 | 1.000 | 1.000 |

a. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods

## Collinearity Diagnostics[a]

| Model | Dimension | Eigenvalue | Condition Index | Variance Proportions | |
|---|---|---|---|---|---|
| | | | | (Constant) | Number_of_Allergens |
| 1 | 1 | 1.941 | 1.000 | .03 | .03 |
| | 2 | .059 | 5.726 | .97 | .97 |

a. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods

## Residuals Statistics[a]

| | Minimum | Maximum | Mean | Std. Deviation | N |
|---|---|---|---|---|---|
| Predicted Value | 1.94 | 2.04 | 2.00 | .040 | 64 |
| Residual | -1.041 | 1.060 | .000 | .755 | 64 |
| Std. Predicted Value | -1.495 | 1.023 | .000 | 1.000 | 64 |
| Std. Residual | -1.368 | 1.393 | .000 | .992 | 64 |

a. Dependent Variable: Get_Upset_Not_Able_to_Eat_Certain_Foods