**Statistical Assessment**

Use the chart in the Module 4 lecture to complete the table below to assess the appropriateness of the statistics used, and determine the statistical significance of outcomes in Messina’s, et al., article “The Relationship Between Patient Satisfaction and Inpatient Admissions Across Teaching and Nonteaching Hospitals” . Refer specifically to the discussion on pages 189-90 of the article.

Messina, D., Scotti, D., Ganey, R., Zipp, G., & Mathis, L. (2009). The Relationship Between Patient Satisfaction and Inpatient Admissions Across Teaching and Nonteaching Hospitals. *Journal of Healthcare Management, 54*(3), 177-89, discussion 189-90. Retrieved from <http://library.gcu.edu:2048/login?url=http://proquest.umi.com.library.gcu.edu:2048/pqdweb?did=1752526601&sid=1&Fmt=4&clientId=48377&RQT=309&VName=PQD>

|  |  |  |  |
| --- | --- | --- | --- |
| **Statistic** | **Data type** | **Sample Size** | **Research Question** |
|  |  |  |  |

**Statistical Significance:**

**There were three errors in Table 4 on page 185. In your identification of significant findings, can/did you find them?**

The chart from the Module 4 Readings:

|  |  |  |  |
| --- | --- | --- | --- |
| **Statistic** | **Data Type** | **Sample Size** | **Research Question** |
| Mean and Standard Deviation | Interval or ratio | >2 | What does the data set look like? |
| Frequency Distribution | Nominal-Ratio | >2 | What does the data set look like? |
| Chi-Square | Nominal-Ordinal | >4 | Is the variance of one variable equal to or different from another variable |
| Correlation Coefficient | Interval-Ratio | >4 | What is the relationship between two variables? |
| t-Test | Interval-Ratio | <30 | Is there a significant difference between two groups? May be intrinsic or may be experimental |
| ANOVA (Analysis of Variance) | Interval-Ratio | >30 | Is there a significant difference between 2 or more groups? |
| Regression Analysis | Interval-Ratio | >30 | How much of the change in the dependent variable is predicted by the independent variable or variables? |

**Refer to the Module 4 Readings for explanation of the chart.**