Week 6

Using Non-Parametric Statistical Tests

According to Gray & Grove (2021), parametric test data is normally distributed, has independent unbiased samples, and equal variances. The quasi-experimental research study's sample was small and not normally distributed. In this case, the non-parametric Spearman's rank correlation would be the one used since it measures the association between two variables and doesn't have a normal distribution. I would not want to use this evidence statistical test for my practice change project. The use of Pearson's r correlation would not be the one used to appraise evidence. Association and correlational analysis both examine the degree of connection between variables. They help understand how changes in one variable are related to changes in another and the strength or direction of that relationship (Siedlecki, 2020; Schober et al., 2018).

References

Gray, J., & Grove, S. (2021). Burns & Grove's the practice of nursing research: Appraisal, synthesis, and generation of evidence(9thed.). Elsevier. Schober, P., Boer, C., & Schwarte, L. A. (2018). Correlation Coefficients: Appropriate Use and Interpretation. Anesthesia and analgesia,126(5), 1763–1768. Siedlecki, S. (2020). Correlation Designs and Analyses. Clinical Nurse Specialist, 34(4), 143- 149. doi: 10.1097/NUR.0000000000000525.