Homework assignment 11

Use black text (if possible) for everything you include in this document. Keep both your answers and the original questions. Save this document in PDF format and submit it on Canvas. Include your last name, the course number and the module number in the name of your file.

1. Show a documentation header. The documentation header is a description of who wrote the program, when it was written, what the purpose of the program is (briefly), and what restrictions (if any) that you may place on the program. For SPSS, you can just type the documentation as free format text. For other programs, you might use the comment feature (such as /\* and \*/ in SAS).

2. Review the paper

* Susan B Stinton, Evangelos Pappas, Alberto Nettel-Aguirre, Niamh A Moloney, Kathryn Refshauge, Dale W Edgar. Who crashes their car following wrist fracture? Journal of Hand Therapy, 2023-10-17, S0894-1130(23)00129-1, doi: [10.1016/j.jht.2023.09.002](https://dx.doi.org/10.1016/j.jht.2023.09.002), pmid: [37858500](https://pubmed.ncbi.nlm.nih.gov/37858500/).

Table 2 lists crash results before and after a wrist injury with time windows of 3 months, 6 months, 1 year, and 2 years. Enter the 3 month data into SPSS and run a McNemar test to see if the percentage of crashes before injury is equal to the percentage of car crashes after injury. Present the two by two crosstabulation and the test statistic. Interpret your results.

3. Review the paper

* Tomoe Tamai, Kanako Yoshimi, Kazuharu Nakagawa, Ryosuke Yanagida, Takuma Okumura, Kohei Yamaguchi, Miki Ishii, Yuki Nagasawa, Haruka Tohara. Laryngoscope Investig Otolaryngol. 2023 Aug; 8(4): 963–969. Usefulness of a newly developed endoscope for the observation of the posterior tracheal wall. Laryngoscope Investigative Otolaryngology, 2023-08-08, 963–969. doi: <https://dx.doi.org/10.1002/lio2.1105>, PMCID: [PMC10446257](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10446257/), PMID: [37621293](https://pubmed.ncbi.nlm.nih.gov/37621293/).

Table 3 lists whether a conventional endoscope or a new 2-step angulation endoscope was successful in observing the posterior tracheal wall on the same patients. Enter the data into SPSS and run a McNemar test to see if the percentage of successful observations was the same for both endoscopes. Present the two by two crosstabulation and the test statistics. Interpret your results.

4. Table 4 in the same paper compares the time required to observe the posterior wall for two different examiners. Enter the data into SPSS, run an appropriate analysis, check the normality assumption, and interpret your results.