1. Provide a citation for the article.
   1. Siddarth P, Burggren AC, Eyre HA, Small GW, Merrill DA (2018) Sedentary behavior associated with reduced medial temporal lobe thickness in middle-aged and older adults. PloS ONE 13(4): e0195549. <https://doi.org/10.1371/journal.pone.0195549>
2. **Read the study description.** Briefly describe the study design. Is this an experiment or an observational study?
   1. Observational study to explore associations between medial temporal lobe thickness, physical activity, and sedentary behavior.
3. What is the sample size? Is a sample size justification included?
   1. 35 non-demented middle-aged and older adults (25 women, 10 men; 45-75 years)
   2. No sample size justification, but the authors did explain why some research participants were excluded in the final analysis (e.g., mood disorders).
4. **Read the analysis description.** Briefly summarize the analysis approach. If the analysis has multiple parts, it is fine to focus on just a portion of the analysis. Did the authors provide enough detail that you feel you could recreate the results (if you had the data available)?
   1. Summary: GLM with interaction terms, follow-up analyses with multiple testing adjustment, and corresponding Pearson correlation coefficients for significant associations.
   2. I think I could recreate this analysis; however, there is no doubt some missing information about the exploratory data analysis and adjustment (e.g., log transformations) that would inhibit reproduction.
5. What software was used for the analysis? If R was used, did the authors reference specific packages? Is there any code or functions mentioned in the body of the article?
   1. The software is not mentioned. The data and code are not offered.
6. What types of summary statistics are included? If means are presented, is standard deviation or SE shown?
   1. Sample descriptive statistics and summary statistics for variables of interest are included with standard deviations.
   2. Model-based coefficient estimates are included with confidence intervals.
7. What types of summary graphs are included?
   1. Scatterplots
8. **Read the results section.** Briefly describe the type of information provided. For example, a multiple regression analysis might present the estimated coefficients and SE. A one-way ANOVA analysis might include pairwise comparisons of means.
   1. The GLM yielded coefficient estimates with corresponding confidence intervals and p-values.
9. Feel free to make any other comments about the article.
   1. It made me want to get out of my chair.