

Clinical Reading Questions #5

HST 190: Introduction to Biostatistics

These discussion questions are based on Chowdhary et al. (2020).

1. Identify the main research question of the study.
2. Who are the subjects in this study, and how many are included? What information was collected?
3. How was data collected? What effect might that have on the results? (possibility of bias, generalizability of results, ability to assess trends, etc.)
4. Table 2 reports the results of three separate two-sample t-tests for a difference of means. Are these tests paired or unpaired?
5. Do you think the assumptions necessary to conduct a valid two-sample t-test are met? if you are unsure, what additional information would help you to evaluate the assumptions?
6. The observed difference in mean women faculty ratio % for MO programs is slightly smaller than for SO programs, but the resulting p-value for MO is much smaller than for SO. Why might that be, based on information provided in this paper?

References

Chowdhary, Mudit, Akansha Chowdhary, Trevor J Royce, Kirtesh R Patel, Arpit M Chhabra, Shikha Jain, Miriam A Knoll, Neha Vapiwala, Barbara Pro, and Gaurav Marwaha. 2020. "Women's Representation in Leadership Positions in Academic Medical Oncology, Radiation Oncology, and Surgical Oncology Programs." *JAMA Network Open* 3 (3): e200708. <https://doi.org/10.1001/jamanetworkopen.2020.0708>.