Biostatistics 140.624.01/.41, 2024
Draft Research Proposal Template
Due Thursday, April 11, 11:59 PM EDT

Fill out the sections in the document below to create your Draft Research Proposal. In each section, follow the instructions provided in [brackets] to guide which information should be included.

After submission, your proposal will be assessed by your peers and you will received feedback from them on the information you have provided. Peer assessment will be blinded -- the reviewer will not know whose proposal they are reviewing; DO NOT put your name anywhere on this document.

Once your proposal is complete, please delete these instructions and the [bracketed] instructions in each section. Please limit your entire proposal to ONE page.

Objective:
[State the precise objective or research question you hope to address in your analysis. If you have more than one objective, indicate which is the main objective and which are secondary objectives.]

Study description:
[Briefly describe the data set you plan to use to meet your objective. Include information on the study that generated the data, such as the original purpose of the study, the study design (e.g., randomized controlled trial, longitudinal cohort study, retrospective case-control study, cross-sectional survey), any relevant information about the blinding/stratification/randomization method, the years of the study, the study setting/location, the number of participants, and the general characteristics of the study population (adults, adolescents, cancer survivors, etc). If applicable, include the name of the study (e.g., the Framingham Heart Study) and a link to the online presence of the study.]

Key variables:
[Describe the variables you plan to include in your analysis, specifying the outcome variable or variables, the primary covariate(s) or interest, and additional covariates you will consider as either confounding variables or effect modifiers. Be specific in your variable descriptions, including information on how the variable is measured and the measurement units (e.g., diastolic blood pressure in mm/Hg or self-reported diet quality categorized as excellent, very good, good, fair, or poor).]

Outcome variable(s):

Primary covariate(s):

Additional covariates (to consider as confounding variables or effect modifiers):

Analysis plan:

[Describe the type of regression analysis you will use to address your question of interest (e.g., linear, logistic, Cox proportional hazards, Poisson, ordinal logistic, multinomial) and briefly explain why this analysis method is appropriate for your data and objective.]

Results:

[Describe what criteria you will use to evaluate your research question after your analysis has been completed (e.g., conclude that there is not evidence that the risk of death is different between group A and B if the confidence interval of the odds ratio crosses 1, and that there is a difference otherwise). Optional: Describe a figure you could generate after running your analysis to convey information relevant to your objective. The type(s) of figures that are appropriate will depend on your objective and regression model.]

