

## **SUGGESTED OUTLINE FOR RESEARCH PROPOSAL**

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### **INVESTIGATORS AND INSTITUTION OF AFFILIATION**

All investigators must be in the study.

### **STUDY TITLE**

The title should be the same in all the documents including in the submission.

### **RESEARCH QUESTION**

What is the research question?

### **HYPOTHESIS & SPECIFIC AIM**

What is the hypothesis? How will this hypothesis be tested? Describe the specific aims.

### **BACKGROUND/SIGNIFICANCE**

Why is the question important? How will the answer advance our knowledge?

### **LITERATURE REVIEW**

Previous researches.

### **METHODOLOGY AND STUDY DESIGN**

What type of study will be used? Why was this design chosen?

### **STUDY SUBJECTS**

How will subjects be recruited/selected? Will a sampling strategy be used? What criteria must subjects satisfy to be included? Will any subjects be excluded? How will ensure human subjects protections?

### **VARIABLES**

What are the key outcome and predictor variables? How will they be defined and measured? What confounding variables will be considered if any?

### **ANALYTIC PLAN**

How will the data be analyzed (general approach only)?

### **LIMITATIONS**

What are the limitations of the study that may affect its validity and/or generalizability?

### **REFERENCES**