



SHP Student Interns for Research and Scholarly Activities Project Proposal Form

Instructions:

Please fill each box to the right of the required fields, obtain the required signature and return via email to Michele Sisco (mcoral@shp.rutgers.edu) by **March 24, 2025**.

If you are sending attachments, please ensure your contact information is added to all your forms.

Faculty Contact Information:

Date submitted:	March 3, 2025
Faculty Name:	Shankar Srinivasan
Department/Program:	Health Informatics
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Project Detail:

Project Title: (56 characters max)	Hospitalization Characteristics of Patients with Hypertrophic Cardiomyopathy (HCM) in the United States.
Project Hypotheses	Null Hypothesis: <ol style="list-style-type: none"> 1. There is no difference in incidence rates of ventricular fibrillation in patients with obstructive HCM compared to non-obstructive HCM. 2. Outcomes of LOS, Total Charges, In Hospital Deaths are the same for both obstructive and non-obstructive HCM patients. 3. Existing Comorbidities do not affect the hospitalization outcomes of the patients with HCM
Description:	The student will utilize the Health Cost Utilization Project (HCUP) Nationwide Inpatient Sample Datasets (after a brief online HCUP Data User Training). Either SPSS or SAS will be utilized to perform the necessary descriptive, inferential and predictive analyses. Those students with strong machine learning skills can explore other techniques (besides multiple linear and logistic regression models) too to derive some novel features or information from the datasets.
Specific Student Responsibilities:	1. Perform appropriate literature review on the topic and

- refine the hypotheses
2. Perform the required data analyses and share results with project supervisors.
 3. Write a report and a publication manuscript as per the journal's formatting guidelines and submit it for publication.

Important Prerequisite: Students should be very familiar with use of SAS/SPSS and have to start working with them from day one of the project.

Start / end date of project:

WHAT OTHER EDUCATIONAL OPPORTUNITIES ARE AVAILABLE TO STUDENTS?

Students will become very familiar with a big federal data set (HCUP-NIS) of import for their future analytics projects. A manuscript publication in their portfolio will enhance their candidacy for future job and educational endeavors.

WHERE DO YOU PLAN TO PRESENT OR PUBLISH THE FINDINGS WITH THE STUDENT?

SHP Poster Day, Peer-reviewed Journals and any other appropriate forum

CHECK ALL APPROPRIATE BOXES BELOW AND PROVIDE REQUESTED INFORMATION.

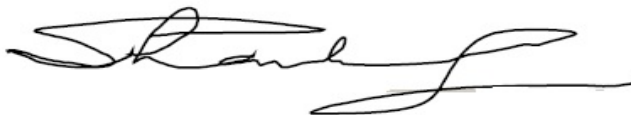
This project is: clinical laboratory behavioral survey educational

Other: please specify__Public-Use Secondary Data Analyses

This project involves the use of human subjects (including chart review, retrospective studies and questionnaires).

Pending Approved IRB Protocol Number _____

IRB approval must be obtained by June 2025



3/7/25

Signature of Department Chair

Date

