

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:	Riddhi Vyas PhD			
Department/Program:	Health Informatics			
Telephone number:	973 972 4279			
E-mail:	Email: vyasrj@shp.rutgers.edu			

Project Detail:

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Project Title: (56 characters max)	Comparative Hospitalization Outcomes of Patients with Acute Myocardial Infarction (AMI) and Cardiac Arrest (CA) in the United States.			
	Null Hypothesis:1. There is no significant difference in incidence rates of AMI and CA.			
	 Outcomes of LOS, Total Charges, In Hospital Deaths are significantly the same for both AMI and CA patients. Existing Comorbidities do not result in significantly different hospitalization outcomes of the patients with AMI or CA. 			
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			
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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.

<u>Important Prerequisite</u>: 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	Students will become very familiar with a big federal data set
EDUCATIONAL	(HCUP-NIS) of import for their future analytics projects. A
OPPORTUNITIES ARE	manuscript publication in their portfolio will enhance their
AVAILABLE TO STUDENTS?	candidacy for future job and educational endeavors.
WHERE DO YOU PLAN TO	SHP Poster Day, Peer-reviewed Journals and any other
PRESENT OR PUBLISH THE	appropriate forum
FINDINGS WITH THE	
STUDENT?	

CHECK ALL APPROPRIATE BOXES BELOW AND PROVIDE REQUESTED INFORMATION.

This project is:	Clinical	laboratory	behavioral	survey	educational		
	⊠ Other: p	lease specify	_Public-Use Secc	ondary Data A	Analyses		
This project			subjects (including	g chart reviev	V,		
Pending Approved IRB Protocol Number							
IRB approval must be obtained by June 2025							
Sk	anh	F		3/7/25			
Signature of De	epartment C	hair		Date	-		