

Summer Student Research Program

Project Description

FACULTY SPONSOR'S NAME AND DEGREE: *Nina E. Glass, MD, FACS*

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PROJECT TITLE (200 Characters max):

Clinical Research in Acute Care Surgery

HYPOTHESIS:

Outcomes are improved by continually evaluating our performance and seeking opportunities to improve the systems through which we deliver care.

PROJECT DESCRIPTION (Include design, methodology, data collection, techniques, data analysis to be employed and evaluation and interpretation methodology)

Students will choose a performance improvement project based on recent data from our trauma, surgical critical care, or acute care surgery services and identify ways to improve outcomes and therefore improve delivery of patient care.

We have also established a research collaboration over the past few years where we have weekly meetings for all students working with the ACS team over the summer to learn about research methods and present various phases of their research to each other. Through this forum, students may end up collaborating with each other and also with other faculty, fellows, and residents in our division and beyond.

Specific ideas for this summer include reviewing some of the guidelines and quality improvement projects we have been implementing in the SICU, and following up on other ongoing projects.

SPONSOR'S MOST RECENT PUBLICATIONS RELEVANT TO THIS RESEARCH:

Recent SSRP projects:

Sames, Antonia M., Sawhney, Arman, Som, Tannishtha, Sifri, Ziad C., Mazzola, Catherine A., Glass, Nina E. "Pediatric Intracranial Gunshot Wounds: Lessons From the Newark Experience." Journal of Surgical Research, Volume 317, 173 - 180

Bono, Kristy, Jorge A. Caceda, Merry Zhai, Helen Horng, Carma Goldstein, Ziad Sifri, Zsolt Jobbagy, and Nina E. Glass. "Timing of Acquisition of Methicillin-Resistant Staphylococcus aureus Nasal Carriage: Can we Limit Repeat Screening?." Journal of Surgical Research 295 (2024): 89-94.

Kokush, Emily M., Radhika Patel, Christine E. Boardingham, Brooke F. Rothman, Jan Ward, Ondrea A. McKay, Peter Yonclas, and Nina E. Glass. "Assessing Knowledge, Usage, and Perceptions of the Frazier Free Water Protocol: A Pilot Study." Journal of Surgical Research 293 (2024): 381-388.

Malhotra, Raj, Helen Horng, Stephanie Bonne, Ziad Sifri, and Nina E. Glass. "Evaluating antibiotic therapy for ventilator-associated pneumonia caused by gram-negative bacilli." Surgery Open Science 16 (2023): 64-67.

Azer, Amanda, Karen Kong, Daniel Basta, Stephen F. Modica, Amy Gore, Elizabeth Gorman, Anne Sutherland, Zaid Tafesh, Helen Horng, and Nina E. Glass. "Evaluation of coagulopathy in cirrhotic patients: A scoping review of the utility of viscoelastic testing." The American Journal of Surgery (2023).

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Azer, Amanda, Panayotova, Guergana G, Kong, Karen, Hakakian, Daniel, Sheikh, Fariha, Gorman, Elizabeth, Sutherland, Anne, Tafesh, Zaid, Horng, Helen, Guarrera, James V, Glass, Nina E. Clinical Application of Thromboelastography in Patients With Cirrhosis: A Single Center Experience. Journal of Surgical Research: 287: 142-148; July 2023.

Zhai, Merry, Kristy Bono, Wei Wei Zhang, Stephanie Bonne, Emily Gordon, Erin Zerbo, Harrison Quijote, and Nina Glass. "Drug and Alcohol Use in Trauma Patients Before and During the COVID-19 Pandemic." Journal of Surgical Research 283 (2023): 999-1004.

Bono, Kristy, Jorge A. Caceda, Merry Zhai, Helen Horng, Carma Goldstein, Ziad Sifri, David Cennimo, and Nina E. Glass. "Evaluating Methicillin-Resistant Staphylococcus aureus Polymerase Chain Reaction Nasal Screening as a Tool for Antimicrobial Stewardship." Journal of Surgical Research 283 (2023): 1047-1052.

THIS PROJECT IS: **Clinical** **Laboratory** **Behavioral** **Other**

THIS PROJECT IS CANCER-RELATED

Please explain Cancer relevance

THIS PROJECT IS HEART, LUNG & BLOOD- RELATED

Please explain Heart, Lung, Blood relevance

THIS PROJECT INVOLVE RADIOISOTOPES?

THIS PROJECT INVOLVES THE USE OF ANIMALS

PENDING

APPROVED

IACUC PROTOCOL #

THIS PROJECT INVOLVES THE USE OF HUMAN SUBJECTS?

PENDING

APPROVED

IRB PROTOCOL # M

THIS PROJECT IS SUITABLE FOR:

UNDERGRADUATE STUDENTS

ENTERING FRESHMAN

SOPHOMORES

ALL STUDENTS

THIS PROJECT IS WORK-STUDY: **Yes** **or** **No**

THIS PROJECT WILL BE POSTED DURING ACADEMIC YEAR

FOR INTERESTED VOLUNTEERS: **Yes** **or** **No**

WHAT WILL THE STUDENT LEARN FROM THIS EXPERIENCE?

Students working on this project will be self-directed and I hope that they will find motivation in their interests within the world of Acute Care Surgery. I am open to students proposing their own ideas and I hope that they we will find something for the students to be passionate about. The requirement is presentation at the end of the summer for the SSRP symposium, and I also hope students present their projects at a National meeting and published in peer-reviewed journal.