

Summer Student Research Program

Project Description

FACULTY SPONSOR'S NAME AND DEGREE: *Ziad C. Sifri, MD*

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PROJECT TITLE (200 Characters max):

Clinical Mission Based Research in Low- and Middle-Income Countries

HYPOTHESIS:

There has been an increase in surgical hernia repairs performed in low- and middle-income countries and having a recurrence from a previous surgical hernia repair is associated increased post operative complications on surgical missions in low and middle income countries.

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

Conduct retrospective chart review for patients who had hernia repairs on surgical trips in low- and middle-income countries and examine patient factors (surgical history, sx duration, previous repair) to see if there is any association with patient outcomes and complication rates. Basic descriptive statistics will be completed on patient demographics and outcomes. Statistical analysis including independent t-test, chi square, and possible multivariate regression will be used to compare patient cohorts and complication outcomes.

SPONSOR'S MOST RECENT PUBLICATIONS RELEVANT TO THIS RESEARCH:

Recent Global Surgery Publications:

Sule, Harsh & Valenzuela, Rolando & Padmanaban, Vennila & Obeng, Enoch & Davies, Georgia & Alvarado, Francisco & Sifri, Ziad. (2025). A Retrospective Proof-of-Concept Study of the Impact of Point of Care Ultrasound During Short-Term Surgical Missions. POCUS Journal. 10. 91-96. 10.24908/pocusj.v10i02.18453.

Anandalwar, Seema & Sifri, Ziad & Hopkins, Mary & Whitley, Daniel & Harfouche, Melike & Narayan, Mayur. (2025). Evolution of global surgery: lessons learned and a look toward the future. Trauma Surgery & Acute Care Open. 10. e001541. 10.1136/tsaco-2024-001541.

Linz, Matthew & Parvin-Nejad, Fatemeh & Srinivasan, Nivetha & Vegunta, Geetasravva & Eng, Ashley & Kim, Eugene & Alexander, Imani & Elgammal, Fatima & Benson, Ryan & Benneh, Albert & Gyakobo, Mawuli & Lopez, Lorena & Jalloh, Samba & Sifri, Ziad. (2025). Postoperative Pain Management in the US vs Low-and-Middle-Income Countries by US Surgeons. Journal of the American College of Surgeons. 241. 10.1097/XCS.0000000000001538.

Benson RM, Khedr S, Riccardi J, Gore A, Sifri ZC. Unveiling the Lasting Impact: A 15-Year Follow-Up of Short-Term Surgical Mission Experiences. J Surg Res. 2024 Aug 28;302:662-668. doi: 10.1016/j.jss.2024.07.099. Online ahead of print. PMID: 39208491

Riccardi J, Benson R, Parvin-Nejad F, Padmanaban V, Sifri Z. Breaking Barriers: Ensuring Gender Neutral Care on Short Term Surgical Missions. J Surg Res. 2024 Nov; 303:181-188. Doi: 10.1016/j.jss.2024.09.004. Epub 2024 Oct 3. PMID: 39366284

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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

X Medical 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 will learn approach to clinical based research, specifically in the global health setting – including special considerations and limitations. Will learn basics of scientific research including literature review, data analysis, abstract/ manuscript writing, and research presentation skills. Will have the opportunity to attend weekly global surgery research meetings to discuss their project and others, as well as present their research at a Center for Global Surgery Meeting at the conclusion.