

RESURG

Research Experience in Surgery

MISSION STATEMENT

Our vision is to promote, develop, and train students to become competent research professionals, while mentoring them in their professional and educational goals.

Visit Our Website:

<http://health.ucdavis.edu/surgery/resurg.html>

Social Media:

Instagram:

<http://www.instagram.com/ucdavisresurg/>

Facebook:

<http://www.facebook.com/ucdavisresurg/>

Email Us: hs-resurg@ucdavis.edu

HIGHLIGHTED CURRENT PROJECTS

Benefits of a Rural Surgery Rotation for General Surgery Training

Research Classification: Prospective

Co-PI: Kimberly Evans, M.D.

Research Assistants: Anjani Patibandla

Study description: The term “rural surgery” refers to surgery serving people in rural communities and geographically remote areas (Nakayama, 2014). Rural surgery has been investigated qualitatively over the last decade with interviews and focus groups, most often engaging with patients and health care professionals (Hughes, 2020). Most surgery residents train in an urban environment which leads to a lack of exposure to rural surgery rotations. The continued urbanization of American surgery may push rural hospitals to close, worsening issues of access (Ellison, 2020). There is a current lack of research on whether it’s helpful to include a rural surgery rotation in general surgery training. This study, through a short survey, aims to evaluate whether rural surgery rotations are useful for surgery residents to understand rural institutions better and pursue rural surgery in the future.

Principal Investigator: Dr. Edgardo Salcedo,

Residents: Colton Ryan, M.D.

Anticipated Enrollment #: 100

Outcomes of Hiatal Hernia Repair after Gastric Bypass: A Large Case Series

Research Classification: Retrospective

Co-PI: N/A

Research Assistants: Zilan Zheng

Study description: Roux-en-Y gastric bypass (RYGB) is the optimal operation for patients with obesity and concomitant gastroesophageal reflux disease (GERD). However, patients may develop de novo or recurrent hiatal hernias after RYGB leading to GERD symptoms. Predictors and outcomes of hiatal hernia repair (HHR) following RYGB are not well described. We sought to review the indications for, work-up of, and outcomes after HHR performed after RYGB at our institution.

Principal Investigator: Dr. Victoria Lyo

Fellows: Marissa Mendez, Christina Kim,
Mohammad Sulaiman Sultany

Anticipated Enrollment #: 44 subjects

Use of endovascular stents in the setting of retroperitoneal malignancy involving the inferior vena cava, iliac veins, and aortoiliac system

Research Classification: Retrospective

Co-PI: N/A

Research Assistants: Rafael Ricon

Study description: Retroperitoneal tumors attached to the vena cava, iliac veins, and aortoiliac system have historically been resected or excised without prior preparation, often resulting in massive blood loss. Recently, vascular surgeons have been asked to stent blood vessels to which these tumors are attached in order to mitigate blood loss and improve surgical outcomes should resection or excision be necessary. This study attempts to study the efficacy of this procedure among UC Davis patients who have undergone the stenting, focusing on the surgical outcomes where previous literature emphasized tumor characteristics.

Principal Investigator: Dr. Misty Humphries

Residents: Matthew Vuoncino, M.D.

Anticipated Enrollment #: 9 subjects

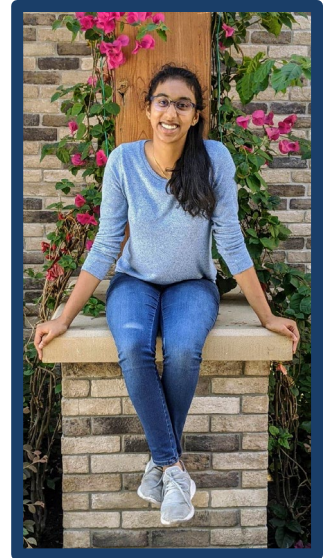
HAVE A STUDY YOU NEED HELP WITH?

Request Assistance [HERE](#). To learn more about our program visit our website [HERE](#).

WELCOME RESURG'S FALL 2022 CLASS

"I was motivated to apply to RESURG to learn more about the practitioner and patient relation side of the medical industry, as I will be using this knowledge going forward as a biomedical engineer. I believe that the valuable mentorship program offered, as well as the hands-on applications and projects I am a part of will help me to excel in any of the goals and career choices I make."

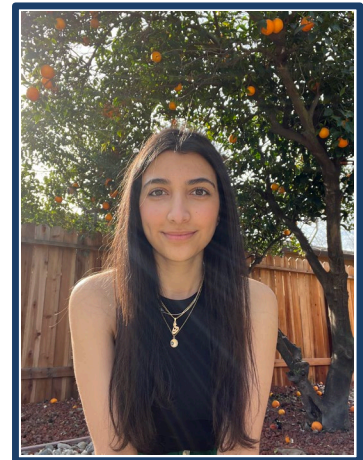
- **Charuthi Arul, Data Specialist**



"RESURG presented a very unique opportunity for me to become familiar with this branch of healthcare as an undergraduate. Going forward with aspirations of becoming a physician, the experiences and knowledge gained from this program will be invaluable as I pursue higher education. Research is an incredibly important avenue of my interests and RESURG acts as a springboard into this world."

- **Aida Mushell, Research Assistant**

"Within the past three years of studying Biomedical Engineering, I have found the passion to dedicate my career to research projects that will better serve marginalized communities. I was motivated to apply to RESURG as a Research Assistant so that it would help me gain first-hand experience in research in the medical realm, improve my professional skills, and prepare me for higher education. Immersing myself in RESURG and clinical research will give me a better understanding of my career path and a way to make a change. The new soft and technical skills I will learn along with the mentorships I will receive will be a significant aspect of my undergraduate career as I graduate in the upcoming June and pursue work in the healthcare industry." - **Dena Sayrafi, Research Assistant**



HOW IS RESURG CURRENTLY DOING?

Physicians RESURG is Currently Assisting: 13

RESURG RAs Assisting on Research Studies: 21

Research Studies RESURG is Assisting on: 29

Divisions RESURG Currently Supports: *Vascular, Pediatrics, Trauma, Cardiothoracic, and Foregut, Metabolic and General Surgery*

“As an aspiring surgeon, RESURG really caught my attention. Ultimately, I applied to RESURG because it seemed like the perfect opportunity for me to learn the fundamentals of research and also to form professional relationships with my peers and mentors. I believe RESURG will not only teach me the skills I need to efficiently communicate with physicians and other health care workers, but also how to be a truly ethical professional and person, which will prove useful for me in the future.”

- **Isabelle Schlegel, Pediatric Research Assistant**



“I’ve always been interested in the research process including what motivates researchers to start new projects, what the research process entails, and the different ways that data can be analyzed to provide meaningful correlations. I saw RESURG as a way to apply my curiosity about clinical research through hands-on learning. I believe that being immersed in a clinical research setting will help me develop the analytical and interpersonal skills needed to become a physician in the future. I’m grateful for the learning experiences that I’ve had so far as well as the connections I’ve built with my peers and healthcare professionals.”

- **Julia Lee, Pediatric Research Assistant**

What is New in RESURG?

We have restarted shadowing in the OR again!

Hear from our member, **Kar Shrikantham** - the first RESURGer to shadow since early 2020:

Who did you shadow and what did you learn?

“I shadowed Dr. Humphries during a 1st rib resection procedure. The most interesting thing I learned, was the amount of precision and cooperation that is needed in the OR. As someone who has never been inside the OR before, this experience was eye-opening as it highlighted the importance of teamwork between surgeons and nurses to effectively execute surgery. Being able to see how each of the doctors interacted with each other in a confident and methodical manner really was an interesting and unforgettable experience.

Additionally, I found it interesting that the anesthesiologists were always monitoring the patient and making sure things were running smoothly. Even though they were not directly involved in the main aspect of the surgical procedure, they were vital in making sure the patient was comfortable.”

Thank you to everyone who supported us throughout 2022. We are excited for the new and continuing opportunities coming in 2023!

Happy New Year's

