

Summer Student Research Program
Project Description

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PROJECT TITLE (200 Characters max):

Intervention Bundle for Venous Thromboembolism (VTE) Prevention in Surgical Patients

HYPOTHESIS:

A multifaceted, multidisciplinary approach focusing on standardize evaluation, management, and communication is effective at reducing perioperative venous thromboembolic events(VTE). Implementation of such protocols in hospital systems can significantly reduce VTE, leading to increased patient safety and improved quality of care.

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

This project involves multidisciplinary collaboration with the University Hospital, Newark's quality department, perioperative services, and hospital leadership. Strategic A3 Analysis is used to identify purported factors and propose countermeasures for the increased perioperative VTE rates among adult patients at tertiary safety net hospital. Key factors identified included withholding preoperative chemical prophylaxis, inconsistent application of sequential compression devices (SCD), VTE prevention knowledge gaps, and poor communication within the care team. Targeted interventions proposed in A3 analysis will be implemented during the perioperative period. Progress of our interventions is tracked using data from the Vizient quality and safety management report.

SPONSOR'S MOST RECENT PUBLICATIONS RELEVANT TO THIS RESEARCH :

No recent research related to VTE prevention. However, PI is currently the chair of the perioperative quality committee at University Hospital and NSQIP Champion.

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

THIS PROJECT IS CANCER-RELATED No

Please explain Cancer relevance

THIS PROJECT IS HEART, LUNG & BLOOD- RELATED? No

Please explain Heart, Lung, Blood relevance

THIS PROJECT INVOLVE RADIOISOTOPES? No

THIS PROJECT INVOLVES THE USE OF ANIMALS? No

PENDING APPROVED IACUC PROTOCOL #

THIS PROJECT INVOLVES THE USE OF HUMAN SUBJECTS? No

PENDING APPROVED IRB PROTOCOL # M

THIS PROJECT IS SUITABLE FOR:

UNDERGRADUATE STUDENTS ENTERING FRESHMAN
SOPHOMORES ALL STUDENTS x

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

**THIS PROJECT WILL BE POSTED DURING ACADEMIC YEAR
FOR INTERESTED VOLUNTEERS:** **Yes x** or **No**

WHAT WILL THE STUDENT LEARN FROM THIS EXPERIENCE?

Through this research experience, students will become familiar with hospital quality as well as quality related research. Students will learn how research and data informs policy in a hospital and how to practically apply their medical knowledge to shape a health system. Students are expected to participate in a quality improvement project which will be turned into a research abstract and manuscript. Students will also get exposure into hospital administration and have the opportunity to meet and shadow key administrative leadership at University Hospital in order to better understand the hospital's quality priorities.