# **BUILDING A POST-ACUTE PRESSURE ULCER REGISTRY: THE LIFT OFF REGISTRY**

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SOCIAL

- Race

DETERMINANTS

- Economic context

OF HEALTH

Ethnicity

- Education

- Phy sical

inf rastructure

- Healthcare

context

ADVANCED

STATISTIC AL

MODELING



### BACKGROUND

- According to Agency for Healthcare Research and Quality (AHRQ), pressure ulcers affect more than 2.5 million people in the United States, cost the healthcare system \$9.1-11.6 billion, resulted in 17,000 lawsuits, and results in 60,000 deaths per annum.
- Pressure ulcers remain the least studied and understood of wound etiologies, even though they are the most expensive to manage

### THE LIFTOFF REGISTRY

- The LiftOff Registry is a national collection of high-qualitylongitudinal pressure ulcer data of patients primarilyin the post-acute setting, launched in Q1 of 2024.
- The purpose of the registry is to simultaneously facilitate research ideation, research process needs (such as subject matching), while providing insights that can be used by clinicians at the bedside:
- To support patient-centered outcomes research to learn more about the patient journey and discover unmet needs.
- To aid in the development of new therapies, and to assess current therapies for efficiency and efficacy.
- The significance of relevance of the Registrydesign, implementation, and management is maintained through OWR's team, consisting of clinician scientists, researchers, data scientists and advisors.
- The registry is hosted in a secure platform on SOC compliant infrastructure.

# METHODS

 Anonymized data is collected from a partner EMR; data is non-patient identifiable and secured at source.

DATA

- Normalized

- optional

Bav esian

longitudinal data

imputation for

missing values



- Exudate - Undermining

ea

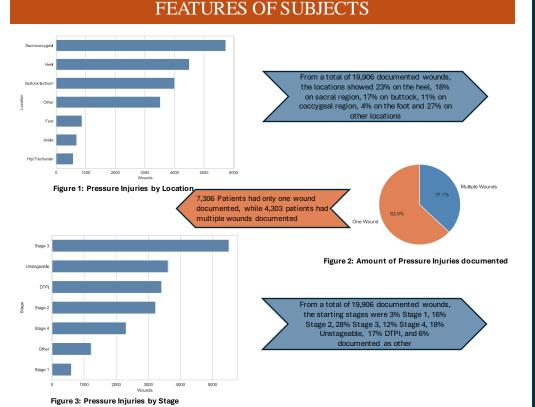
PHOTOGR APHY - sequential high quality wound photos

STUDY MATCHING - create synthetic matching cohorts using

COMING SOON:

cohorts using corsened exact matching (CEM)

10K+	23K+	16	125K+
Total Patients	Total Wounds	Total Treatment Types	Total Clinical Notes



## CONCLUSION

The Lift Off Registry is an invaluable resource for researchers specializing in wound care, offering an unparalleled opportunity to delve into the intricacies of pressure ulcers. Its versatility allows for exploratory analyses and facilitates cross-comparisons among categorical variables. Designed with speed and user-friendliness in mind, it boasts flexible visualization capabilities. The ultimate objective is to propel our understanding of pressure ulcers, and improve the lives of countless patients affected by pressure ulcers.

### References:

<u>https://www.ahrq.gov/patient-</u>

- safety/settings/hospital/resource/pressure/loc/pu1.html#:~:text=Cost% 3A% 20 Pressure%20ulcers%20cost% 20% 249.1.to%201 51%2C700%20per%20pressure% 20ulcer.
- <u>https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html</u>

### **PEN WOUND** RESEARCH

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