Studying Elevated Cardiac Troponin Levels in the Critically Ill

AWARD AMOUNT: $390K

THE TEAM
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THE PROBLEM
Critically ill patients with elevated cardiac troponins of unknown significance (ECTUS) are at increased risk of death. However, there is a lack of evidence-based treatment for this condition.

- Exact cause of ECTUS is unknown
- No consistency in current ECTUS treatment strategies
- Pros and cons to various treatment therapies

Understanding the underlying mechanisms of elevated cardiac troponin levels in critically ill patients to improve treatment and survival

Create a biorepository of patient samples to better understand the processes surrounding ECTUS in order to develop a potential treatment.

- Understand outcomes of patients with ECTUS
- Determine processes behind ECTUS
- Provide data foundation for future studies

Unlike prior research on troponin, this study treats ECTUS as a condition that may warrant specific treatment rather than a symptom of multiple organ dysfunction syndrome.

It also explores troponin levels below the upper limit of normal, which may lead to the establishment of new limits of normal and abnormal levels.

THE SOLUTION
THE HYPOTHESIS