



Important Healthcare Terms for this Project:

- Sepsis - A condition when the body's response to an infection causes injury to itself.

- qSOFA - The Quick Sequential Organ Failure Assessment score identifies patients at high risk for a poor outcome with an infection.

> Presentation Overview

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Project Overview

Sepsis is among the leading causes of morbidity and mortality in critically ill patients.



Recent studies have shown that survival benefit from early intervention in sepsis is almost entirely dependent on time-tofirst antibiotics.

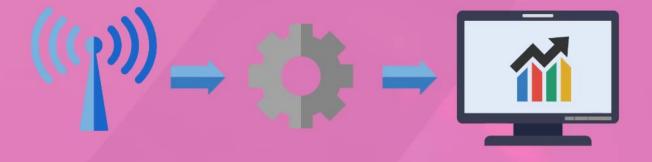
No clinically validated system exists for accurate, real-time prediction of sepsis onset in the Emergency Departments.

Objective Physician Facing



Design a cross-platform Sepsis Prediction and Alert application.

Design Overview Three Main Components



- 1. FHIR enabled component to interface to a FHIR server to retrieve streaming patient data.
- 2. Calculation and control component that can handle multiple simultaneous patients to calculate qSOFA and other sepsis risk factors.
- 3. Display component that shows a visualization of the calculated data.



TIMELINE

Proposed Major Milestones

10/8 - Team Topic Presentation 10/22 - Team Tech Presentation / High Level Design Complete 11/05 Calculation
Component Complete /
Visualizations
Designed / FHIR
Interface Designed

11/12 Team Progress Report 12/03 Team
Project Complete and
Presentation Complete