PREDICTION OF SEPSIS RISK

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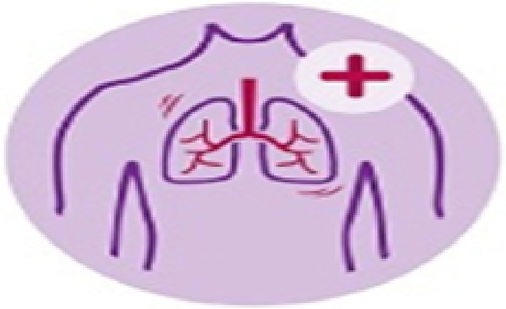
WHAT IS SEPSIS?

Sepsis is a serious condition that happens when the body's immune system has an extreme response to an infection. The body's reaction causes damage to its own tissues and organs. Sepsis can affect anyone, but people who are older, very young, pregnant or have other health problems are at higher risk.

symptoms of SEPSIS

Feeling very unwell, extreme pain or the "worst ever"



Fast breathing

Skin rash or clammy, sweaty skin

Feeling very hot or cold, chills or shivering

Fast heart beat

Feeling confused disorientated, or slurring speech

Not passing much (or any) urine

Weakness or aching muscles

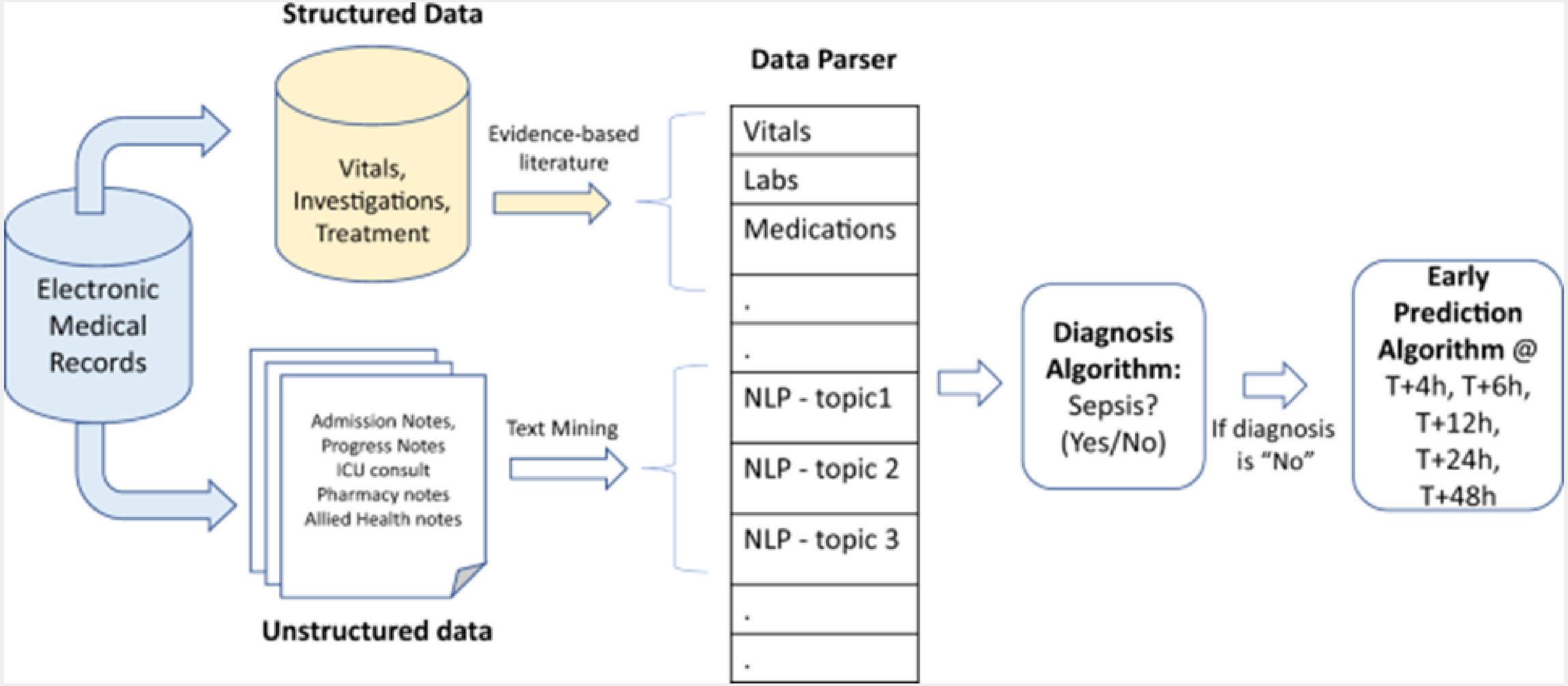
OBJECTIVE

- Detection of patient’s sepsis risk level
- Enhance patient’s outcome by providing clinician’s with a tool to predict sepsis risk
- Efficiently allocate healthcare resources by prioritizing patients at higher risk
- Reform the discrete valued dataset into a continuous valued dataset with prediction into existing clinical workflow

PROPOSED METHOD:

- Gathering clinical data from the patient record
- Filter the features that help in identifying the disease
- Representing data as a sequence to ensure proper temporal alignment for giving input to cnn layers
- Integrate reccurent layers to capture temporal dependencies within data
- Validate model on distinct datasets and fine tune hyperparameters based on model’s performance

SYSTEM ARCHITECTURE



THANK YOU