Next I will give a brief introduction about this research which could be separated into 2 parts.

The first part is about the background of sepsis.

Sepsis / ˈsepsɪs / is a life-threatening systemic inflammatory / ɪnˈflæmət(ə)ri / response syndrome / ˈsɪndrəʊm / caused by the invasion of bacteria into the body.

It has a high incidence, a severe clinical course, and a high mortality rate.

There are over 18 million severe sepsis cases reported worldwide each year, and this number continues to rise at a rate of 1.5 to 8.0% annually.

Despite its clinical significance, the fundamental mechanisms underlying sepsis remain poorly understood.

And sepsis require substantial healthcare resources and financial costs

Next I will introduce the research contents.

One is about Predicting the outcomes of septic patients

We utilize data from the MIMIC-IV database and the outcome is Measured by Patient survival status & Hospital stays

The other content is about developing a mortality risk assessment system

The data is transformed into a simplified scoring table which could provide clinical recommendations for treatment