Good evening, everyone. Today, I'm excited to present a paper titled 'Intelligent Mining of Complex Medical Data Using Deep Learning'.

In today's healthcare landscape, the increasing volume and complexity of medical data pose significant challenges for analysis, particularly in extracting meaningful insights and patterns. Traditional methods often struggle with low precision, long processing times, and low recall rates.

Previous research in medical data analysis has made progress with tools like text recognition and smart algorithms. Yet, challenges persist in effectively exploring complex medical data because current methods struggle with understanding all its different aspects and can be slow and time consuming, especially with large datasets.

This research addresses this critical need by introducing an innovative algorithm that discretizes data and employs convolutional neural networks to analyze association mapping relationships between attributes.

The results have been compared with other similar studies through multiple groups of comparative experiments as shown in the figures. The first figure show that frequency of proposed data mining is at a high level under different mining factors. Also, the time-consuming measure is lower compared to other existing algorithms which is evident in second figure. Finally, the accuracy of association rule extraction is improved compared to the other algorithms. This is because of the use of CNN to extract association rules and employs both association and difference coefficient matrices. Through this step, the associations between data sets are analyzed, which lays the foundation for data mining research.