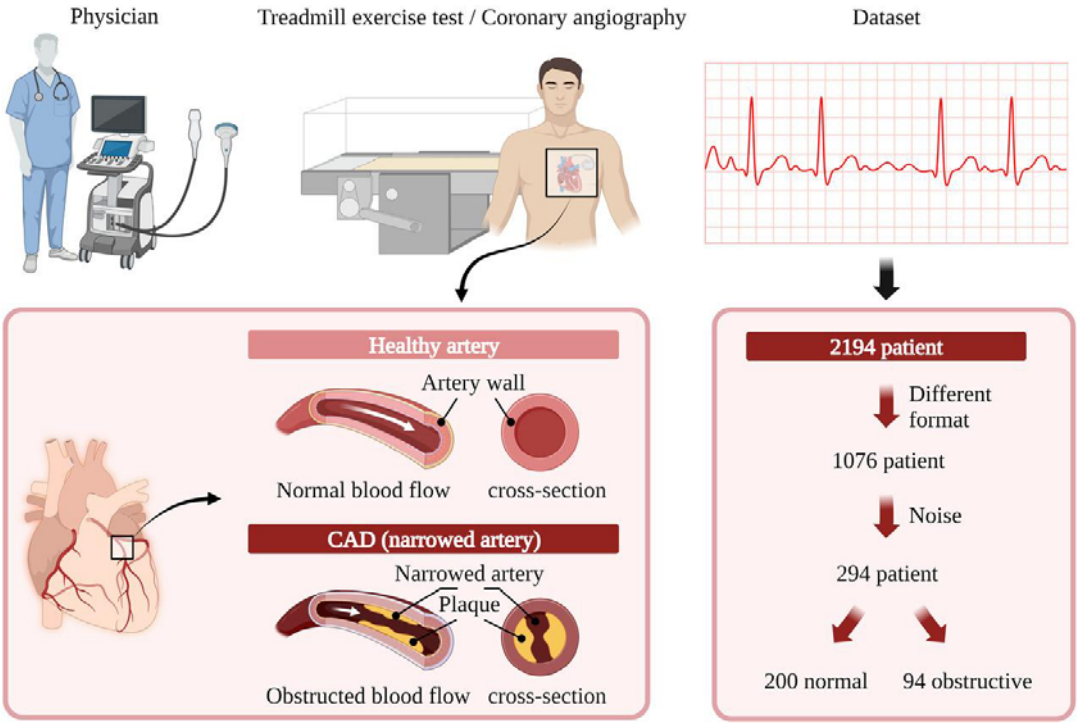

FIG 1. Shows the TET dataset collection flowchart with healthy artery and narrowed artery of the patients. Among TET reports from 2194 patients who underwent TET and CAG in the same month, 1076 patients were chosen after standardization of reports. Then, 294 patients were included after noise reduction and selection of artifact-free P, QRS, and T waves.

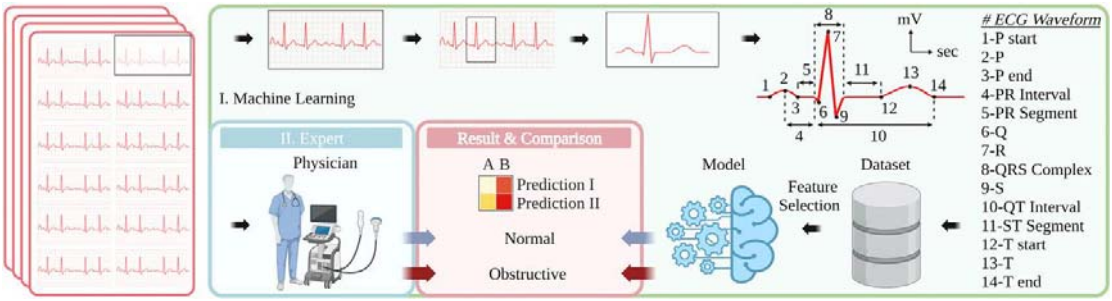

FIG 2. Shows graphical abstract of the study. Shows the creation of dataset from TET reports and ML model. In results and comparison, the cardiologists and ML model were compared.

selected from the noisy and corrupted data. V5 signal features of these 294 patients were collected and added into the dataset. Dataset flowchart is shown in Figure 1. The time and amplitude features of TET signals, such as P, QRS, and T waves, were then detected using an in-house developed MATLAB script after the data digitalization process. In order to improve the diagnosis of OCAD, 5 ML models were trained using this dataset. In addition, the cardiologists were tested with images of V5 signals. The results of ML were compared with the results of cardiologists. The study flowchart is shown in Figure 2.