# 52. ENHANCING AUTOMATED DIAGNOSIS OF ECG USING HL7 MEDICAL DEVICE COMMUNICATION

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Electrocardiogram data are analyzed and stored in different formats, devices and platforms; hence it is tedious to display those data unless the user has access to that particular software of each particular device.In the current scenario, diagnosis of electrocardiogram data includes all the waves and signals, nevertheless due to the presence of noise in the Electrocardiogram data, the results of the diagnosis might be misleading.Therefore, in order to avoid these issues, a system is proposed which performs an image validation of histogram check to rectify the noise acquired in the input Electrocardiogram image as well as tune up and improve the quality of the original image. Furthermore,the use of Health Level 7 as the medical data exchange standard integrates electrocardiogram waveforms as well as data descriptions of the disease. Consequently, an automated XML report will be generated, representing specific cardiac abnormalities through the development of ontology.



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