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KEY WORD : ELECTROCARDIOGRAM HL7 VERSION 3.0 STANDARD

SURASIT SUTTIPO : THE DISPLAY ELECTROCARDIOGRAM ON WEB BROWSER  
BY USING HL7 VERSION 3.0 STANDARD. THESIS ADVISOR : ASST.PROF. PANJAI  
TANTATSANAWONG, Ph.D. 69 pp.

The objective of this research is designing the electrocardiogram (ECG) management using web browser. The developed system is better than the conventional system, which need to print results to the paper.

In this study, the developed ECG management system was expressed on web browser by uploading ECG files in the XML (Extensible Markup Language) which follows HL7 version 3.0 standard.. These files were stored in the server and then the developed program read XML file and create SVG (Scalable vector graphics) file to show on web browser. The system can add other diagnostic results of ECG. In addition, this system can use to compare between present and previous ECG results.

SGV graphic file used XML language, which is a data structure in the text format. This format can create SGV graphic file, which smaller and faster than binary graphic file when exchange SGV file on the Internet.

The results in this study showed that the results of ECG on web browser had accurate and rapid. From the satisfaction evaluation of 2 users, in terms of functionality mean score is 4.00 and in terms of processing time mean score is 4.38 which were indicated in good level. Base on these results, this study could be applied to enhance the performance of operations in the hospital.

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