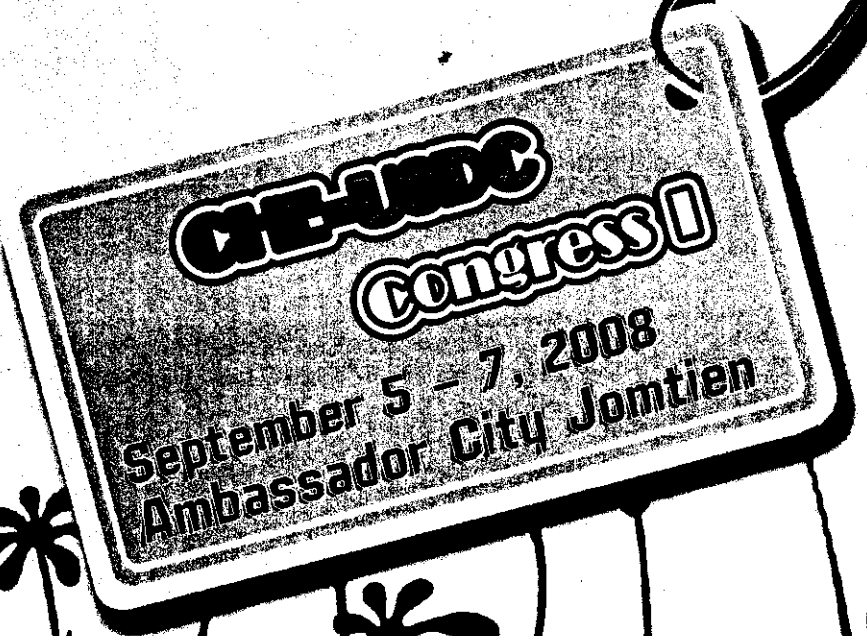




**การประชุมวิชาการของสำนักงานคณะกรรมการการอุดมศึกษา ครั้งที่ 1
เครือข่ายเชิงกลยุทธ์เพื่อการพัฒนาบุคลากรมหาวิทยาลัย**

**Commission on Higher Education Congress I
University Staff Development Consortium**



**สำนักงานคณะกรรมการการอุดมศึกษา
Commission on Higher Education**

Portable Field Prototype for Electrocardiogram Monitoring

Noimanee S¹, Khunja P¹ and Wattanasirichaigoon S²

¹Department of Computer Engineering, Chiang Mai University

²Faculty of Medicine, Srinakharinwirot University, Bangkok

Objectives

This research is a part in continuous project aiming for development for portable some of vital-signed monitoring of a patient after an heart operation.

Methods

It is via wireless technology on personal digital assistant (PDA) with easy specific interpretation software for automatic normal/abnormal of ECG signal determination.

Results

It is under beat by beat analysis, quick and easy advanced interpretation to create custom templates and can analyse strip charts up to 2 hours. The period of contact with fee for the service will be automatically recorded.

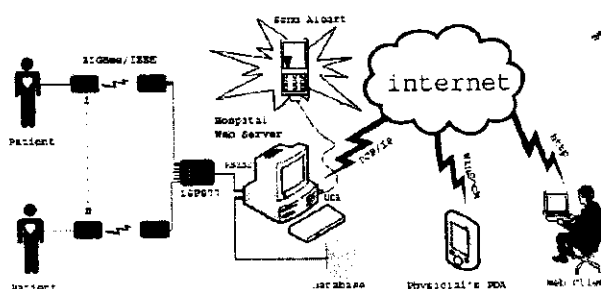


Figure 1. The structure of global system.



Figure 2. Portable ECG Transceiver device

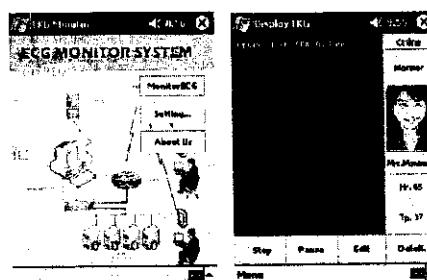


Figure 3. Personal ECG Monitor

Discussion

Development for both software and hardware has been focused for easy handling by heart decease physician/ specialist. We look forward for the prototype to be developed further in industry.