ABSTRACT

In the society of Taiwan, the life expectancy has been increased progressively. The population of advanced age who suffers from serious diseases would become higher and higher, which causes great burden to many families. It makes social cost promote significantly. All these are the biggest targets to connect the "fixed position of the satellite and communication system" with the "medical/surgical equipment" to instantly bring some simple messages from the human body to the family or health-care personnel, in order to reduce the accidental incidences and, relatively, to reduce the cost of human resource. In this research, by use of the GPS, it will determine the position, and facilitate the search of the sick person. The GSM can send out the message from a can to deliver the message from the human body about the physiological condition immediately. The cost of GSM is based on the quantity system price - using the digital data, and the common message is charged per times with the limits of several times. Therefore, the module of the GSM is the best choice. Regarding the parts of the medical/surgical equipment, there are more possible combinations to match, including 1. Blood pressure and arterial pulse, 2. Blood pressure and blood sugar and 3. Arterial pulse and blood sugar. After a pilot study, it is decided to combine the arterial pulse and blood sugar as the message to be delivered via the GSM system for life saving.

Keywords: GPS: 全球定位系统
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