Abstract

The death rate of every county is reduced because of the upgrading of medical technology; therefore, extension of people's life makes the elders' population rising up enormously. In Taiwan, most elders live together with their family; however, the elders stay along themselves frequently due to their family have to work outside long time in one day. Suffering by degrading on physiology and chronic diseases makes the elders inconvenient on daily life activities. Moreover, risks come with them if they are with sudden diseases. Therefore, to keep the home safety, care and communication with the elders will be an important topic.

This research mention how to build a community Emergency Elders Rescue Service, which cooperates by Taichung city government and the Associate of Care and Service, named this system as the Emergency Rescue & First Aid Online for the Elders. This system is built for the isolated elders with sudden diseases or disable on physiology, which age up to 65. Main service content includes emergency accidents, emergency medical accident rescue, none actions warning and detection, emergency transportation conducting, scheduled in-house medical interview, and telephone contacting.

This research uses questionnaires to inquire users' consciousness in emergency rescue service system. The result points out the elders regard installing the emergency rescue service system are helpful for their daily life, and also agree they can use the bleeper easily. As for the usage of the bleeper, most elders do not like to take it on their side; half of the interviewees take the bleeper in shower, more than half of the interviewees taking the bleeper when feel uncomfortable on physical, which they put the bleeper at bedside when not taking it. Instead of text interface, graphical user interface is being suggested to using to show usages of the bleeper due to most of the interviewees are uneducated. The bleeper can not apply on the outdoor affects the elders' willingness; the elders also like to add multimedia display and night lighting function on the bleeper. Through the result of questionnaires and interviews, the study promotes suggestions for the emergency rescue system. As for dimensions of the bleeper, proposed shell size of overall dimension should fall in 37.5mmX 27.5mmX 12mm to 37.5mmX 47.5mmX 8mm, and the button dimension falls on 12mm± 2mm, and apply membrane or concave inside button.

For further part for this research, the study suggests to develop this system in internet and life communication direction, which combines with current internet, communication technology, and daily life activities. Therefore, the emergency rescue system will be developed for the elders and all age level users. Besides, combine this system with the elders in community, and also with helps form community care, it will help to reach goal for emergency rescue and care for the elders, and reduce fees from government. Moreover, citizens have chances to help community care; those topics will be further theme for this research.

Keywords：Emergency Rescue System、Consciousness In Operating、The Elders