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A Review of the Effectiveness of the Cloud-Based System Established for the Services by Health Stations

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Introduction

Our hospital has fifty-eight health stations at five districts in New Taipei City, 322 volunteers provided height, weight, waist-width and blood pressure measurement services in the community. By estimate, total of 40 to 50 thousand people were served in one year. The tremendous measurement data need labor to key in. Therefore, our hospital incorporated with internet technology in 2014, and established cloud-based systems to solve the problem of tremendous data and transfer cases with abnormal measurement to hospital immediately.

Purpose/Methods promotion

Based on the characteristic of health stations, the requirement of the cloud-based system includes the ability of automatically personal identification recognition, measurement of multiple subjects simultaneously, and automatically data upload. The subject must register his/her personal information and get his/her individual health card before measurement. Each subject put his/her card into card reader on the equipment. The data will be uploaded automatically after measurement. The professional experts can read the results and statistical analysis at the terminal computer.

Results

In 2014, three cloud-based health stations were established, and served 252 subjects, with 2202 man-time service, from July to November. Each subject was served for 8.7 times on average. Of these 252 subjects, 56 or 22.2% had BMI $\geq$ 27; 115 or 45.6% had hypertension ($\geq$ 140/90 mmHg); 145 or 57.5% had abnormal waist-width (male $\geq$ 90, or female $\geq$ 80); and 28 man-times of immediate referral were provided due to abnormal blood pressure above 160/100mmHg.

Conclusions

It will reduce the human resource cost and increase the data accuracy by using the equipment which can automatically upload measurement data to the cloud-based system. More importantly, the professional medical expert can readily access the data in the cloud terminal, and provide immediate assistance for those with abnormal data to receive proper management. We are planning to increase the cloud-based system to health service station annually, and let the people have better quality of service while receiving high-tech measurement.