



Interweaving the Power of Community and Technology – Cloudify Health Stations in Communities

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Abstract introduction

In order to implement health promotion, MacKay Memorial Hospital cooperates with community associations nearby to establish Health Stations. Local volunteers collected over 50,000 measurements of blood pressure, body mass index (BMI) and waist circumference each year. For the purpose of assisting the community to improve self-care ability and upgrading the services of Health Stations via technology, we begin to cloudify Health Stations.

Purpose/Methods promotion

First and Second year, we built the framework for the cloud system and expanded the scale of the cloud stations at a rate of 4 stations per year. Following, we synchronized the data to the hospital, developed an exclusive health APP and initiated a case management system for health stations and medical staff. Annual goals included recruitment of 350 members per year, APP download rate of 10%, APP satisfaction rate of 80%, and case management system satisfaction rate of 85%.

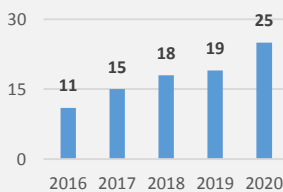
Cloudify Promotion Stage

- 2014 **Founding Stage**
Built the framework
- 2015 **Extension Stage**
Expanded the scale
- 2016 **Connection Stage**
Synchronized data
- 2017 **Development Stage**
Developed health APP
- 2018 **Integration Stage**
Developed case management system

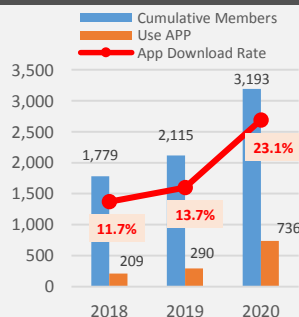
Results

As of 2020, there were 25 cloud Health Stations and 3,193 registered members. We were also on schedule with synchronizing data to the hospital system and developing both an exclusive APP and a case management system. APP download rate was 23.1%. User satisfaction rate for APP and case management system were 83.9% and 87.8%, respectively. The service volume of cloud stations had already reached 53.2% of the total volume (94,564) in 2020.

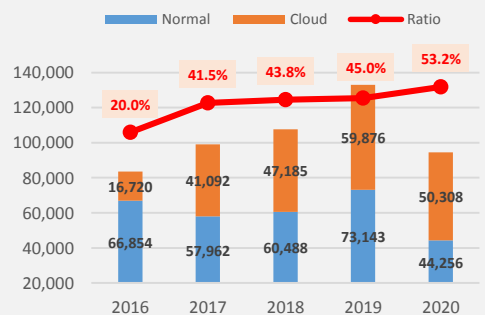
Cloud Station Cumulative Quantity



Cloud Cumulative Members and APP Download Rate



Cloud Station Service Volume Growth



Conclusions

Cloudifying Health Stations drastically reduced the burden and error of keeping measurement records. Use of APP to check measurement data allows community residents to improve self-care ability. Medical staff members are also able to make suggestions on health management for community residents through synchronized data. Furthermore, the successful model of cloudifying Health Stations creates a new milestone for our hospital in health promotion.