Abstract

Objectives

When you look at healthcare in developing countries, the level of urban general hospitals are similar to the level of advanced countries, but rural clinics have problems of insufficient doctors and nurses. In recent years, developing countries are growing rapidly widening and medical gap becomes clear because doctors are concentrating in urban areas.

To solve this problem, the objective of this study is to improve medical consulting ability of rural clinics through concentration of diagnostic data at regional core hospitals using the system of telemedicine and collecting data from Mobile Clinic Van.

We proposed to set up a referral system which meant a regional medical linkage system was established. And also we proposed to use a Diagnosis Procedure Combination (DPC) system in which diagnostic data centre was established at regional core hospital.

Results

Based on this, we could classify the diseases in each regional area using the DPC system. And diseases were easily to classify by the name of region, type of diseases and medical costs using Markov model Simulation. As a result of this, Clinic Van could be obtained with an adapted medical device.

Conclusions

We confirmed that the referral system would be feasible based on calculation of assumed regional medical costs.

An economic effect will be change of the loading apparatus to a clinic van is possible, and then it saves the number of medical devices and its costs.

3 Home Messages

- Referral system adopted the DPC system.
- Concentration of medical data would be saved medical costs.
- And it saved the number of medical devices in Clinic Van.