Special Lecture: Towards the Reform of Taiwan’s National Health Insurance from the aspect of the Big Data Analysis  
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**Speech Abstract**

Last December, the National Health Insurance Administration conducted the first-time satisfaction survey on physicians of NHI healthcare providers. 86% of the physicians believe the general public waste medical resources and pharmaceuticals. This finding points out an imperative the National Health Insurance need to improve.

In term of health economics, ageing, the rising rate of chronic diseases, emerging new drugs and new technology make the healthcare expenditures increasing. However, in addition to these external factors, do any other factors contribute to the inflation of Nation Health Insurance expenditures? According to the analyses of the NHI Big Data, there are several things the medical professionals and the general public may discuss together, and these findings may light up the direction of the reform of Taiwan’s National Health Insurance.

The Nation Health Insurance expenditures have increased 2.4 times from more than 250 billion points in 1998 to over 590 billion points in 2016. The outpatient care expenditure increases 1.4 times and the inpatient care increases 1.2 times. Namely, keeping the numbers of patients, the number of visits and admissions, the average number of visits and admissions stay steady, the total NHI health expenditures are still increasing every year, and the expenditure per person per time as well.

Though the rates of NHI premiums and copayments have been adjusted several times for the past twenty years, the NHI revenues do not completely go to the labor income of the medical professionals. In fact, the growth rates of the expenditures on pharmaceuticals, treatments, examinations, therapeutic treatments, radiology treatments have gone quite high for the past few years. If patients visit healthcare providers, many of them will run a series of biochemical tests and offer a comprehensive range of medical imaging
services. These expenditures gradually accumulate and the annual expenditures will reach greater than tens of billions NT dollars. Thus, the National Health Insurance expenditures would continue to grow if we did not effectively manage repeated tests and examinations.

In order to ration medical resources reasonable and make reimbursements much reasonable, the National Health Insurance Administration is promoting “The Sharing Program of the Results of Significant Tests and Examinations.” At the beginning of this program, the NHI medi-cloud systems will give physicians a pop-up flash to show the items of tests and exams their patients have taken in the recent six months. With the premise that physicians’ autonomy are respected, the cases of repeated tests and exams will be the potential objectives of the professional reviews under the purposive sampling method.

Eventually, the general public and the medical professionals shall work together to save the expenditures from unnecessary medical treatments and then to heighten the efficacy of the allocation of medical resources and National Health Insurance resources. The sustainable Taiwan’s National health Insurance is our vision, and with this vision, we want and we are going to offer the best medical care for the twenty-three million people and to create a happy working environment for all of medical professionals.