

Abstract

The Bureau of Disease Control of Executive Yuan in Taiwan, owing to the Immunize consideration, it is necessary to integrate the different system among medical unit, domicile department and contract hospitals of the whole country. From year 2002, begin to introduce National Immunization Information System (NIIS), to uplift the Immunization department's performance.

The purpose of this study is to understand NIIS satisfaction and cost effectiveness. We use questionnaires and field study to approach the users, to investigate and to collect the degree of satisfaction in each stage and evaluate system performance. From our founding of the study, we will give the fundamental suggestions of expand the Central Database of CDC in the future. This study will combine the cost data (such as setup and implementation cost), to explore cost effectiveness of the system after to use. This will give us to explain the effect factors of this system execution.

The result of this study as followed: 1). The Immunization convert from PHIS to NIIS, the total system satisfaction in year 2004 is much better than year 2003. 2). After one year implementation, the NIIS has better performance than early stage. 3). NIIS offer many benefit for the staff of district health centers indeed. 4). From year 2002 to 2004, the investment cost and introduce cost are decreases progressively. 5). Compare with the BIIS from Boston of USA, the NIIS cost benefit or system performance are much higher BIIS but the investment cost are same of each other. 6). The NIIS users are more than BIIS, the burden cost of each newborn baby in our country are 6 times less than BIIS, and each unit of vaccine cost are 40 times less than BIIS also.

From the above point of view, after the system development matured and maintenance continued, the NIIS has really efficient and benefit for Immunization job, the performance better than any other advance country. Therefore the setup and implementation of NIIS in our country became the new milestone of Immunization policy.

Keywords : NIIS ; Cost-Benefit Analysis ; National Immunization Information system ; Satisfaction