

# Domestic Secondary Data Resources Utilization in Healthcare Research

## Introduction

The secondary data resource means the data collected for the purpose other than specific studies. The studies using these secondary data resource may have limitations in securing the research results compared to the primary resource studies which directly collect data for certain studies. However, the secondary source studies may contain subjects hard to join studies due to illiteracy and poor health conditions considered as disadvantages of the studies, draw effective conclusions with less cost and time, as well as the reduced possibility for biased recollection and selective report compared to the primary source studies, increasing the requirement.

However, the current situation shows that researchers fail to aggressively utilize due to not providing systematic data for the status and features of the data sources even though various local organizations produce high quality secondary sources from various sectors.

## Objective

The purpose of this manual is to establish the list of secondary data resources available in studies related to local healthcare and provide basic information for planning researches. In addition, the manual provides in-depth information including self-examination list and analysis of sample researches for researchers to perform effective and reasonable studies by utilizing the data in the planning or analysis process.

## Methods

The study reviewed data sources including statistical lists from affiliated organizations of the Statistics Korea(central government agencies, research bodies, public corporation, etc), statistics portal of the Ministry of Health and Welfare(health and welfare statistics) and related organizations to understand the status of the secondary sources from local health organizations. The study selected the secondary sources to be included in the manual by reviewing the possibility for providing micro data with the unit of person and including the examination items through websites or hands-on people for statistical production or announcing organizations.

The study collected basic information(purpose, system and item of the data and procedure for data provision) referring to websites, guideline for using the raw data and published reports from selected data sources and provided cautions as tips to prevent errors for the data analysis.

In addition, the study proposed summarized table by mapping major items examined for each data source to provide more effective information while reviewing proper secondary sources for the study purpose and proposed self-examination table for

items to be considered for planning studies using the secondary data resources developed through prior studies in 2011. Lastly, the study described the data collection method through complicated sample design based on the results of the Korea National Health and Nutrition Examination Survey and mentioned weighting factors to be considered in the data analysis using these sample data.

The finally selected 22 basic information in the secondary sources are as follows (Table 3). Please refer to the specific contents of 'NECA Research-Method Series 5: Domestic Secondary Data Resources Utilization in Healthcare Research' to be published for the sample data analysis considering self-examination table, mapping results for each data source and complicated sample design on specific data for the purpose and system of data collection for each data source, variable list, procedure for data provision and tips, as well as secondary data resources.

**<Table 3> Basic information of secondary data resources**

Data source	Responsible organization	Purpose of data collection	Data provision	Data provision method	Year of data provision	Period of data provision
Health Insurance Claim Data	HIRA	Data claimed to review and evaluate the properness of medical care in accordance with the Article 55 of the Health Insurance Act	Organization (Prior consultation for individuals)	Contact organizations (Online application for the national patient sample data)	5 years before the application	Every year
Central Cancer Registration Data	NCC	Registered data to establish cancer data at the national level	Provided to organization / individual	Online application	1999 - 2009	Every year
Health Screening Data from NHIC	NHIC	Public medical checkup data	Limited provision for policy researches	Contact organizations	5 years before the application	Every year
Society Survey	Statistics Korea	Understand the national quality of life and social fluctuations	Provided to organization / individual	Online application	1990 - 2011	Every year
Cause of Death Data		Understand the structure of accurate cause of death among citizens	Provided to organization / individual	Contact organizations Online application	1991 - 1996 1997 - 2010	
Korea National Oral Health Survey	MOHW	Secure basic data required to decide priorities for oral health projects, systematic oral health project goal development and plans at the national level	Provided to organization / individual	Online application	2000 - 2010	3 years
Korea National Health and Nutrition Examination Survey	KCDC	Product statistics on the level of national health, consciousness to health issues and the status of food and nutrition intake at the local and the national levels	Provided to organization / individual	Online application	1998 - 2010	Every year
Community Health Survey		Establish grounds for healthcare projects with evidence basis and comparable investigation system among locals	Provided to organization / individual	Online application	2008 - 2009	Every year
Korea Youth Risk Behavior Web-based Survey		Calculate statistics for health among Korean youths and secure basic information for planning and evaluating projects nurturing the youth health	Provided to organization / individual	Online application	2005 - 2011	Every year
Korean National Hospital Discharge In-depth Injury Survey		Product healthcare statistics at the national level for patients discharged from medical institutions	Provided to organization / individual	Online application	2005 - 2011	Every year

<Table 3> Basic information of secondary data resources(continued)

Data source	Responsible organization	Purpose of data collection	Data provision	Data provision method	Year of data provision	Period of data provision
Survey on the Elderly	KIHASA	Observe the health status and changes in the health and welfare status of the elderly	Provided to organization / individual	Online application	1994 - 2011	Every year
Survey on Baby Boomers		Understand various features and requests for baby boomers to provide ground data for seeking the direction of policies for the elderly	Provided to organization / individual	Online application	2010 years	Single year
Survey on Persons with Disabilities		Understand the status of the Korean disabled and request for welfare services	Provided to organization / individual	Online application	2000 - 2008	3 years
Survey on Multicultural Families		Understand the living status and welfare request from multicultural families, develop and establish tailor-made policies for the families	Provided to organization / individual	Online application	2009 years	Single year
Survey on the National Birth and Family Welfare Status		Basic data for establishing population and family health and welfare policies	Provided to organization / individual	Online application	1991 - 2009	3 years
Survey on the Infant and Maternal Mortality		Produce statistics on the level and cause of maternal mortality to provide basic information to improve the maternal health	Provided to organization / individual	Online application	2007 - 2008	Single year
Survey on Lower Income Families		Data to estimate the basic line for the poor income families and understand living status and desire for welfare	Provided to organization / individual	Online application	2004 - 2006	Completed
Patient Survey		Understand diseases, injuries, medical status and healthcare institutions and personnel for a certain period of time on patients in medical institutions to provide basic data for setting up healthcare policies and produce healthcare statistics	Provided to organization / individual	Online application	1996 - 2010	1 year (3 year interval before 2008)
Korea Welfare Panel		Data to understand the living status and welfare request from the survey groups and evaluate and form policies	Provided to organization / individual	Online application	2006 - 2011	Every year
Korea Health Panel		Understand uses of medical services and medical expenses for the individuals and families (8,000 households nationwide)	Provided to organization / individual	Online application	2008 - 2009	Twice a year
Korean Longitudinal Study of Ageing	KEIS	Longitudinal survey carried out in order to obtain micro panel data on the elderly	Provided to organization / individual	Online application	2006 - 2010	Twice a year
Korean Labor & Income Panel Study		Longitudinal surveys conducted to get a panel of micro data on labor market	Provided to organization / individual	Online application	1998 - 2010	Every year