Supplementary file 1. Cost Classification and Data Sources of Economic Burden [Unit: number, years, %, 1,000 kwn]

Cost items			Data Sources	Variables	
Direct	Direct	Inpatient costs	Main Statistical Data by NHI (2015)	Total Inpatient Treatment Cost for Ischemic Stroke	1,378,782,325 kwn
costs	medical			Total Inpatient Treatment Cost for Hemorrhage Stroke	519,458,841 kwn
	costs	Outpatient visit costs	Main Statistical Data by NHI (2015)	Total Outpatient Visit Treatment Cost for Ischemic	99,382,300 kwn
				Stroke	
				Total Outpatient Visit Treatment Cost for Hemorrhage	14,903,319 kwn
				Stroke	
		Non-cover care costs	Investigation on the Current Status of Treatment Cost for	Non-covered Patient's Burden Rate	17.1 %
			Health Insured Patients by NHI (2014)		
			Consumer Price Research by KNSO	Inflation Rate	0.7 %
			(2014-2015)		
		Medication costs	Main Statistical Data by NHI (2015)	Total Medication Cost and Cost for using Pharmacy for	335,280,067 kwn
				Ischemic Stroke	
				Total Medication Cost and Cost for using Pharmacy for	45,409,058 kwn
				Hemorrhage Stroke	
		Assistive devices costs	Assistive Devices Cost in Kim's study (2010)	Assistive Device Costs	241 kwn
			Consumer Price Research by KNSO	Inflation Rate	9.5 %
			(2010-2015)		
			Main Statistical Data by NHI (2015)	Number of Patients of Ischemic Stroke	463,147 No.
				Number of Patients of Hemorrhage Stroke	52,701 No.
	Direct non-	Transportation costs	Family Economy Trend Research by KNSO (2015)	Average Transportation Cost for Round-Trip	21 kwn
	medical		Main Statistical Data by NHI (2015)	Total Number of Claims for Ischemic Stroke Impatient	308,500 cases
	costs			Total Number of Claims for Hemorrhage Stroke	88,920 cases
				Impatient	
				Total Number of Claims for Ischemic Stroke Outpatient	2,056,429 cases
				Visit	
				Total Number of Claims for Hemorrhage Stroke	237,909 cases
				Outpatient Visit	

	Caregiver's costs	Intermediate Status of Model Project for	Average Daily Caregiver's Cost	33 kwn
		Institutionalization of Hospital Caregiver Service by the		
		Ministry of Health and Welfare (2010)		
		Main Statistical Data by NHI (2015)	Inpatient Days for Ischemic Stroke	6,612,878 days
			Inpatient Days for Hemorrhage Stroke	2,064,235 days
Indirect	Lost productivity due to premature	The Statistical Data of Cause of Death by KNSO (2015)	Number of Patients who Died of Stroke	275,895 No.
costs	death	Kim's study about Cohort of Death of Patients of Stroke	Rate of Death by Ischemic Stroke	25.9 %
		(2015)	Rate of Death by Hemorrhage Stroke	74.1 %
		Life Table by KNSO (2015)	Life Expectancy	82.06 years
		Employment, Work, and Income by KNSO (2015)	Average Annual Expected Income	39,600 kwn
			Employment Rate	62.6 %
	Lost productivity due to	Main Statistical Data by NHI (2015)	Outpatient visits of Patient of Ischemic Stroke	2,054,188 days
	hospitalization and outpatient visits		Outpatient visits of Patient of Hemorrhage Stroke	237,695 days
		Employment, Work, and Income by KNSO (2015)	Average Daily Income	145 kwn

Abbreviation: KNSO, Korea National Statistical Office.