Comparative Analysis on Health Accounts by Disease, Age and Gender: Korea and Japan

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Chapter I. Problem Statement

Chapter 1. Problem Statement

☐ Background

- O SHA2011 suggests to construct the Health Account by beneficiary characteristics (i.e. by disease, age and gender) in addition to the original 3 core dimensions suggested by SHA1.0 which are by function, provider, and financing scheme.
- Health Account classified by standardized disease, age and gender enables comparison among different countries. This will contribute to deciding on how to distribute resources and understanding the factors behind increase in healthcare expenses by having a close look on patterns of healthcare expenses for specific diseases.
- In 2007/08 there was a pilot study, or 「ESTIMATING EXPENDITURE BY DISEASE, AGE AND GENDER UNDER THE SYSTEM OF HEALTH ACCOUNTS (SHA) FRAMEWORK conducted by OECD (OECD, 2008), in which 6 countries including South Korea, Australia, Germany, Hungary, Sweden, Slovenia participated (Jeong, 2008).
- O In case of 2016 OECD statistics, only 12 countries submitted Health Account data classified by disease, age, and gender. Moreover, most of the countries are not updating their figures to the latest years. However, Health Account is meaningful enough just by comparing cross-country data, even though the data was not updated to the latest figures as long as identical method was applied to the classification.
- Some countries submit their accounts only by specific diseases, rather than entire diseases.
- Some countries submit the data constructed based on inpatients,

outpatients and pharmaceuticals.

☐ Purpose

O The purpose of this paper lies in introducing the construction process and result of the Korean version of Health Account classified by age, gender, and disease which is strongly recommended to construct by SHA 2011, as well as comparing Korean health expenditures by disease, age and gender with those of Japan.

Chapter II.

Korean Health Accounts

Classified by

Disease, Age and Gender

Chapter 2. Korean Health Accounts Classified by Disease, Age and Gender

A. Construction Method

- O To distribute total Current Health Expenditure of 115.2 trillion won in 2015 (Released in 2017) by beneficiary characteristics (by disease, age and gender) utilizing the top-down method.
- O To grasp healthcare expenditure compositions (by disease, age and gender) according to patient characteristics groups through health insurance claim data and NHIS survey and to apply those keys to similar sub-groups of the total Current Health Expenditure in order to distribute them by disease, age and gender.

☐ Step 1

- O To draw out the record of the entire 'Current Health Expenditure' by function, financing scheme, and provider according to SHA2011 classification. (refer to National Health Accounts Report by the MOHW for detailed methodology)
- Classification of Health care Functions: ICHA-HC
- Classification of Health Care Providers: ICHA-HP
- Classification of Health Care Financing Schemes: ICHA-HF

☐ Step 2

O To extract health expenditure composition by disease, gender and age according to financing agents and financing schemes from the database shown in Table 1.

Table 1 Data Sources

Source			Beneficiary	Financing Scheme					
Α		0	All	a	p+s				
	Service DB	1 2	Insured in National Health Insurance Recipients of Medical Aid Program	p s	Insurer/third-party payments Co-payments by patients for				
					covered services				
В	Survey on Patients Health	0	All	p	Insurer/third-party payments				
	Expenditure by NHIS	1	Insured in National Health Insurance	s	Co-payments by patients for				
	(National Health Insurance Service)	2	Recipients in Medical Aid Program		covered services				
	Service)	3	Insured in Industrial Accident	n	Payments by patients for service				
			Compensation Insurance		not covered by health insurance				
		4	Insured in Insurance for car accidents.						
С	Korean Healthcare Panel	0	All	a	All				
	Study (KoHPS), by KIHASA	1	Insured in National Health Insurance	р	Insurer/third-party payments				
	(Korean Institute for Health and Social Affairs) and NHIS	2	Recipients in Medical Aid Program						
	(National Health Insurance	3	Insured in Industrial Accident	S	Co-payments by patients for				
	Service)		Compensation Insurance		covered services				
		4	Insured in Insurance for car accidents.	n	Payments by patients for service				
		5	Insured in Private Health insurance		not covered by health insurance				
D	Survey on Patients Health	0	All	a	p+s				
	Expenditure by NHIS			р	Insurer/third-party payments				
	(detailed version)	1	Insured in National Health Insurance	s	Co-payments by patients for				
_				ļ	covered services				
Е	Private Health Insurance obtained Statistics by Korea	5	Insured in Private Health insurance						
	Insurance Development								
	Institute (2016)								
F	Population Census in 2015	0	All						

Source: Jeong et al., 2015 National Health Accounts, Ministry of health and Welfare 2017

☐ Step 3

- O Distribute the 'Current Health Expenditure' by function, provider and financing scheme in Step 1 by applying the healthcare expenditure composition by disease, age, gender in Step 2.
- O To classify 944 categories of function, provider, financing scheme in the current Korean Health Accounts, by disease, age and gender, thus to obtain a total of 1,145,829 subcategories, finally.

B. Health Accounts by disease, age, gender (2015)

(1) One-dimensional composition

(a) By disease

- O Having a look over the composition of 'Current Health Expenditure' of 2015 by disease, these 3 diseases are of highest ratio: 'Diseases of the circulatory system'(13 trillion and 272.9 billion won, 11.5%), 'Diseases of the musculoskeletal system and connective tissue'(13 trillion and 183.1 billion won, 11.4%) and 'Diseases of the digestive system'(12 trillion and 689.8 billion won, 11.0%).
- 'Injury, poisoning and certain other consequences of external causes' (9 trillion 850.7 and billion won, 8.6%), 'Diseases of the respiratory system'(9 trillion and 739.9 billion won, 8.5%) and 'Neoplasms' (9 trillion and 619.3 billion won, 8.4%) are the next highest 3 diseases.

Table 2 Current Health Expenditure by Disease

	Current Health	Share
Classification of Diseases and Related Health Problems	Expenditure	
	(0.1	(%)
	billion won)	, , , , , , , , , , , , , , , , , , ,
Certain infectious and parasitic diseases	32,869	2.9
Neoplasms	96,193	8.4
Diseases of the blood and blood-forming organs and certain	16,039	1.4
disorders involving the immune mechanism	10,000	1.4
Endocrine, nutritional and metabolic diseases	39,963	3.5
Mental and behavioural disorders	50,318	4.4
Diseases of the nervous system	40,341	3.5
Diseases of the eye and adnexa	37,332	3.2
Diseases of the ear and mastoid process	8,631	0.7
Diseases of the circulatory system	132,729	11.5
Diseases of the respiratory system	97,399	8.5
Diseases of the digestive system	126,898	11.0
Diseases of the skin and subcutaneous tissue	18,072	1.6
Diseases of the musculoskeletal system and connective tissue	131,831	11.4
Diseases of the genitourinary system	73,096	6.3
Pregnancy, childbirth and the puerperium	10,358	0.9
Certain conditions originating in the perinatal period	3,245	0.3
Congenital malformations, deformations and chromosomal	3,417	0.3
abnormalities	0,111	0.0
Symptoms, signs and abnormal clinical and laboratory findings,	22,460	1.9
not elsewhere classified	,	
Injury, poisoning and certain other consequences of external	98,507	8.6
causes	,	
Factors influencing health status and contact with health	18,806	1.6
services	· ·	0.1
Not elsewhere classified	93,377	8.1
Total	1,151,882	100
source: Jeong et al., Korean National Health Accounts in	2015, Ministry	of Health and

source: Jeong et al., Korean National Health Accounts in 2015, Ministry of Health and Welfare, 2017

(b) By age

- O Binding health expenditure by every 5 years of the patients' age, health expenditure is 2.9 trillion won (2.5%) at 0-4 age range, then increases to 3.1 trillion won (2.7%) at 5-9 age range, reaches its minimum 2.2 trillion won (1.9%) at 10-14 age range, then increases again until 55-59 age range when it is 10.6 trillion won (9.2%), then decreases again, and then reaches maximum 10.7 trillion won (9.3%) at 75-79 age range, and decreases from then.
- O Looking over the 'health expenditure per person' by the age group, it is possible to track the average changes of an individual's lifetime health expenditure: to increase from birth to 5-9 age range, decrease from 10-14 age range and reach the minimum at 15-19 age range, and then show an increasing trend as the age increases, overpassing health expenditure of 5-9 age range at 35-39 age range.
- It is possible to identify that 'health expenditure per person by the age group' is different from 'total health expenditure by the age group' which includes 'population of the age group' additionally.

Table 3 Current Health Expenditure by Age

			** **	
All ages	Current Health Expenditure	Share	Health expenditure per capita	Relative scale
	(0.1 billion won)	(%)	(thousand won)	(0~4 = 1.0)
0~4	29,199	2.5	1,306	1.0
5~9	30,687	2.7	1,362	1.1
10~14	21,922	1.9	906	0.8
subtotal(0~14세)	81,808	7.1	1,184	2.8
15~19	25,121	2.2	792	0.9
20~24	28,360	2.5	838	1.0
25~29	33,400	2.9	1,103	1.1
30~34	46,851	4.1	1,297	1.6
35~39	53,118	4.6	1,404	1.8
40~44	61,802	5.4	1,466	2.1
subtotal(15~44)	248,652	21.6	1,173	8.5
45~49	72,384	6.3	1,696	2.5
50~54	91,433	7.9	2,205	3.1
55~59	106,123	9.2	2,747	3.6
60~64	94,832	8.2	3,437	3.2
subtotal(45~64)	364,771	31.7	2,426	12.5
65~69	96,091	8.3	4,537	3.3
70~74	104,830	9.1	5,953	3.6
75~79	107,231	9.3	7,908	3.7
80~84	82,302	7.1	10,150	2.8
85~89	45,746	4.0	12,313	1.6
90~94	16,541	1.4	13,327	0.6
95~99	3,392	0.3	13,803	0.1
100 or above	518	0.0	16,394	0.0
subtotal (65 or above)	456,651	39.6	6,952	15.6
Total	1,151,882	100	2,317	39.4

(c) By gender

- O Looking over 'Current Health Expenditure' by gender, women spent 62 trillion and 182.2 billion won (54.0%), which is 9 trillion won (8.0%) higher than that of men who spent 53 trillion and 6.0 billion won(46.0%).
- O Health expenditure of women is higher than that of men in most disease categories.

(2) Two-dimensional composition

(a) Disease x Age

Disease composition by age

- O For 0-14 age group, 'Diseases of the respiratory system'(2 trillion and 204.7 billion won, 27%) is the highest, then follows 'Diseases of the digestive system'(777.0 billion won, 9.5%) and 'Diseases of the eve and adnexa'(683.5 billion won, 8.4%).
- O For 15-44 age group, 'Diseases of the digestive system'(3 trillion 841.9 and billion won, 15.5%) is the highest, then follows 'Injury, poisoning and certain other consequences of external causes'(2 trillion and 754.1 billion won, 11.1%), and 'Diseases of the musculoskeletal system and connective tissue'(2 trillion and 575.2 billion won, 10.4%).
- O For 45-64 age group, 'Diseases of the musculoskeletal system and connective tissue'(4 trillion and 935.7 billion won, 13.5%) is the highest, then follows 'Diseases of the digestive system' (4 trillion and 427.9 billion won, 12.1%) and 'Diseases of the circulatory system' (4 trillion and 108.6 billion won, 11.3%).
- O For 65 or above age group, 'Diseases of the circulatory system' (8 trillion 138.2 and billion won, 17.8%) is the highest, then follows 'Diseases of the musculoskeletal system and connective tissue'(5 trillion and 204.0 billion won, 11.4%) and 'Diseases of the respiratory system'(4 trillion and 44.1 billion won, 8.9%). Among this age group, looking over the 75 or above age group, 'Diseases of the respiratory system' is higher than 'Diseases of

the musculoskeletal system and connective tissue', and the proportion of 'Mental and behavioural disorders' is on a rapid rise.

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Table 4 Disease composition by Age (summary version)

		0-14		15-44		45-64		ove	(duplication) 75 or above		Total	
Classification of Diseases and Related Health Problems	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share
	won)	(%)	won)	(%)	won)	(%)	won)	(%)	won)	(%)	won)	(%)
Certain infectious and parasitic diseases	3,015	3.7	8,774	3.5	9,335	2.6	11,745	2.6	7,921	3.1	32,869	2.9
Neoplasms	2,496	3.1	15,137	6.1	38,347	10.5	40,214	8.8	19,163	7.5	96,193	8.4
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	2,213	2.7	8,877	3.6	3,401	0.9	1,547	0.3	806	0.3	16,039	1.4
Endocrine, nutritional and metabolic diseases	2,309	2.8	4,767	1.9	15,482	4.2	17,405	3.8	8,499	3.3	39,963	3.5
Mental and behavioural disorders	1,085	1.3	9,584	3.9	14,024	3.8	25,626	5.6	18,762	7.3	50,318	4.4
Diseases of the nervous system	1,504	1.8	5,016	2.0	10,991	3.0	22,830	5.0	12,878	5.0	40,341	3.5
Diseases of the eye and adnexa	6,835	8.4	8,259	3.3	10,448	2.9	11,790	2.6	4,803	1.9	37,332	3.2
Diseases of the ear and mastoid process	2,161	2.6	2,039	0.8	2,445	0.7	1,986	0.4	930	0.4	8,631	0.7
Diseases of the circulatory system	1,260	1.5	9,001	3.6	41,086	11.3	81,382	17.8	48,370	18.9	132,729	11.5
Diseases of the respiratory system	22,047	27.0	18,276	7.3	16,635	4.6	40,441	8.9	28,760	11.2	97,399	8.5
Diseases of the digestive system	7,735	9.5	38,419	15.5	44,279	12.1	36,465	8.0	19,433	7.6	126,898	11.0
Diseases of the skin and subcutaneous tissue	1,936	2.4	6,646	2.7	4,805	1.3	4,685	1.0	2,631	1.0	18,072	1.6
Diseases of the musculoskeletal system and connective tissue	4,682	5.7	25,752	10.4	49,357	13.5	52,040	11.4	23,851	9.3	131,831	11.4
Diseases of the genitourinary system	1,278	1.6	13,390	5.4	23,071	6.3	35,357	7.7	19,465	7.6	73,096	6.3
Pregnancy, childbirth and the puerperium	5	0.0	10,290	4.1	60	0.0	4	0.0	1	0.0	10,358	0.9
Certain conditions originating in the perinatal period	3,113	3.8	70	0.0	46	0.0	17	0.0	9	0.0	3,245	0.3
Congenital malformations, deformations and chromosomal abnormalities	1,819	2.2	863	0.3	526	0.1	209	0.0	88	0.0	3,417	0.3
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	2,603	3.2	5,453	2.2	6,302	1.7	8,101	1.8	4,821	1.9	22,460	1.9
Injury, poisoning and certain other consequences of external causes	6,118	7.5	27,541	11.1	30,465	8.4	34,382	7.5	22,106	8.6	98,507	8.6
Factors influencing health status and contact with health services	2,427	3.0	5,905	2.4	5,990	1.6	4,483	1.0	2,038	0.8	18,806	1.6
Not elsewhere classified	5,165	6.3	24,592	9.9	37,678	10.3	25,942	5.7	10,394	4.1	93,377	8.1
Total	81,808	100	248,652	100	364,771	100	456,651	100	255,729	100	1,151,882	100

source: Jeong et al., Korean National Health Accounts in 2015, Ministry of Health and Welfare, 2017

Table 5 Disease composition by Age (detailed version)

	0-4		5-9		10-14		15-19		20-	-24	25-29		30-34	
Classification of Diseases and Related Health Problems	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share
	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)
Certain infectious and parasitic diseases	1,400	4.8	953	3.1	662	3.0	811	3.2	1,003	3.5	1,268	3.8	1,658	3.5
Neoplasms	415	1.4	1,189	3.9	891	4.1	995	4.0	1,019	3.6	1,346	4.0	2,354	5.0
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	312	1.1	877	2.9	1,025	4.7	1,468	5.8	1,806	6.4	1,214	3.6	1,514	3.2
Endocrine, nutritional and metabolic diseases	156	0.5	946	3.1	1,208	5.5	529	2.1	414	1.5	464	1.4	713	1.5
Mental and behavioural disorders	52	0.2	393	1.3	639	2.9	959	3.8	1,150	4.1	1,237	3.7	1,585	3.4
Diseases of the nervous system	451	1.5	571	1.9	482	2.2	532	2.1	585	2.1	682	2.0	877	1.9
Diseases of the eye and adnexa	1,226	4.2	3,539	11.5	2,070	9.4	1,307	5.2	1,183	4.2	1,032	3.1	1,221	2.6
Diseases of the ear and mastoid process	1,302	4.5	527	1.7	332	1.5	349	1.4	308	1.1	213	0.6	283	0.6
Diseases of the circulatory system	197	0.7	608	2.0	455	2.1	495	2.0	651	2.3	793	2.4	1,329	2.8
Diseases of the respiratory system	11,312	38.7	7,455	24.3	3,280	15.0	2,955	11.8	2,212	7.8	2,313	6.9	3,225	6.9
Diseases of the digestive system	1,270	4.3	4,156	13.5	2,310	10.5	3,487	13.9	5,276	18.6	5,807	17.4	7,058	15.1
Diseases of the skin and subcutaneous tissue	679	2.3	669	2.2	588	2.7	877	3.5	1,079	3.8	1,139	3.4	1,167	2.5
Diseases of the musculoskeletal system and connective tissue	539	1.8	2,357	7.7	1,786	8.1	2,074	8.3	2,354	8.3	3,043	9.1	4,527	9.7
Diseases of the genitourinary system	367	1.3	535	1.7	376	1.7	551	2.2	1,147	4.0	1,743	5.2	2,685	5.7
Pregnancy, childbirth and the puerperium	-	-	_	-	5	0.0	36	0.1	428	1.5	1,850	5.5	4,763	10.2
Certain conditions originating in the perinatal period	3,000	10.3	82	0.3	30	0.1	9	0.0	6	0.0	9	0.0	13	0.0
Congenital malformations, deformations and chromosomal abnormalities	1,263	4.3	305	1.0	251	1.1	217	0.9	138	0.5	110	0.3	127	0.3
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	980	3.4	994	3.2	630	2.9	708	2.8	600	2.1	725	2.2	944	2.0
Injury, poisoning and certain other consequences of external causes	1,118	3.8	2,384	7.8	2,617	11.9	3,587	14.3	3,610	12.7	4,058	12.2	4,785	10.2
Factors influencing health status and contact with health services	1,351	4.6	583	1.9	493	2.2	350	1.4	374	1.3	922	2.8	1,883	4.0
Not elsewhere classified	1,810	6.2	1,564	5.1	1,791	8.2	2,824	11.2	3,017	10.6	3,430	10.3	4,140	8.8
Total	29,199	100	30,687	100	21,922	100	25,121	100	28,360	100	33,400	100	46,851	100

Table 5 Disease composition by Age (detailed version, continued)

	35-39		40-44		45-49		50-54		55-59		60-64		65-69	
Classification of Diseases and Related Health Problems	Current Health Expenditure	Share												
	(0.1 billion won)	(%)												
Certain infectious and parasitic diseases	1,888	3.6	2,145	3.5	2,332	3.2	2,540	2.8	2,524	2.4	1,939	2.0	1,788	1.9
Neoplasms	3,674	6.9	5,750	9.3	7,397	10.2	9,579	10.5	11,322	10.7	10,048	10.6	10,430	10.9
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	1,705	3.2	1,170	1.9	1,313	1.8	852	0.9	724	0.7	512	0.5	380	0.4
Endocrine, nutritional and metabolic diseases	1,038	2.0	1,609	2.6	2,411	3.3	3,571	3.9	4,833	4.6	4,668	4.9	4,384	4.6
Mental and behavioural disorders	1,975	3.7	2,679	4.3	3,314	4.6	3,620	4.0	3,881	3.7	3,210	3.4	3,014	3.1
Diseases of the nervous system	1,009	1.9	1,330	2.2	1,770	2.4	2,413	2.6	3,359	3.2	3,448	3.6	4,398	4.6
Diseases of the eye and adnexa	1,842	3.5	1,675	2.7	1,813	2.5	3,072	3.4	2,963	2.8	2,600	2.7	4,087	4.3
Diseases of the ear and mastoid process	350	0.7	535	0.9	514	0.7	635	0.7	698	0.7	597	0.6	552	0.6
Diseases of the circulatory system	2,141	4.0	3,591	5.8	5,784	8.0	9,235	10.1	12,579	11.9	13,488	14.2	14,858	15.5
Diseases of the respiratory system	3,835	7.2	3,736	6.0	3,596	5.0	3,988	4.4	4,671	4.4	4,380	4.6	5,047	5.3
Diseases of the digestive system	7,794	14.7	8,998	14.6	10,119	14.0	11,693	12.8	12,686	12.0	9,780	10.3	7,739	8.1
Diseases of the skin and subcutaneous tissue	1,157	2.2	1,228	2.0	1,234	1.7	1,260	1.4	1,278	1.2	1,034	1.1	982	1.0
Diseases of the musculoskeletal system and connective tissue	6,130	11.5	7,625	12.3	9,175	12.7	12,284	13.4	14,576	13.7	13,322	14.0	13,945	14.5
Diseases of the genitourinary system	3,277	6.2	3,987	6.5	4,751	6.6	5,580	6.1	6,504	6.1	6,235	6.6	7,318	7.6
Pregnancy, childbirth and the puerperium	2,722	5.1	490	0.8	42	0.1	8	0.0	6	0.0	4	0.0	2	0.0
Certain conditions originating in the perinatal period	17	0.0	16	0.0	13	0.0	13	0.0	12	0.0	8	0.0	6	0.0
Congenital malformations, deformations and chromosomal abnormalities	133	0.3	138	0.2	127	0.2	154	0.2	138	0.1	107	0.1	65	0.1
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1,173	2.2	1,302	2.1	1,353	1.9	1,589	1.7	1,813	1.7	1,548	1.6	1,502	1.6
Injury, poisoning and certain other consequences of external causes	5,466	10.3	6,035	9.8	6,952	9.6	8,166	8.9	8,828	8.3	6,519	6.9	6,036	6.3
Factors influencing health status and contact with health services	1,388	2.6	987	1.6	1,160	1.6	1,451	1.6	1,824	1.7	1,555	1.6	1,286	1.3
Not elsewhere classified	4,403	8.3	6,777	11.0	7,214	10.0	9,730	10.6	10,904	10.3	9,830	10.4	8,273	8.6
Total	53,118	100	61,802	100	72,384	100	91,433	100	106,123	100	94,832	100	96,091	100

Table 6 Disease composition by Age (detailed version, continued)

	1						l		l		1			
	70-74		75-79		80-	80-84		89	90-94		95-99		100 or	above
Classification of Diseases and Related Health Problems	Current Health Expenditure (0.1 billion	Share												
Certain infectious and parasitic diseases	won) 2,037	1.9	won) 2,596	2.4	won) 2,663	3.2	won) 1,703	3.7	won) 782	4.7	won) 152	4.5	won)	4.9
Neoplasms	10,620	10.1	9,549	8.9	5,941	7.2	2,741	6.0	790	4.8	127	3.8	14	2.8
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	361	0.3	301	0.3	251	0.3	162	0.4	74	0.5	16	0.5	2	0.3
Endocrine, nutritional and metabolic diseases	4,522	4.3	4,201	3.9	2,684	3.3	1,212	2.6	335	2.0	58	1.7	8	1.6
Mental and behavioural disorders	3,850	3.7	5,176	4.8	5,919	7.2	4,777	10.4	2,279	13.8	533	15.7	77	14.9
Diseases of the nervous system	5,555	5.3	5,885	5.5	4,414	5.4	1,953	4.3	538	3.3	77	2.3	11	2.1
Diseases of the eye and adnexa	2,900	2.8	2,490	2.3	1,505	1.8	635	1.4	156	0.9	14	0.4	2	0.4
Diseases of the ear and mastoid process	504	0.5	444	0.4	300	0.4	139	0.3	40	0.2	6	0.2	1	0.2
Diseases of the circulatory system	18,153	17.3	20,384	19.0	15,787	19.2	8,654	18.9	2,918	17.6	540	15.9	88	16.9
Diseases of the respiratory system	6,634	6.3	8,970	8.4	9,277	11.3	6,675	14.6	2,992	18.1	732	21.6	114	22.1
Diseases of the digestive system	9,293	8.9	9,214	8.6	5,988	7.3	2,993	6.5	1,022	6.2	194	5.7	23	4.5
Diseases of the skin and subcutaneous tissue	1,072	1.0	1,074	1.0	834	1.0	481	1.1	186	1.1	46	1.4	10	1.9
Diseases of the musculoskeletal system and connective tissue	14,244	13.6	12,601	11.8	7,600	9.2	2,851	6.2	681	4.1	101	3.0	17	3.2
Diseases of the genitourinary system	8,574	8.2	8,410	7.8	6,376	7.7	3,450	7.5	993	6.0	211	6.2	25	4.9
Pregnancy, childbirth and the puerperium	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Certain conditions originating in the perinatal period	3	0.0	2	0.0	3	0.0	2	0.0	0	0.0	0	0.0	0	0.0
Congenital malformations, deformations and chromosomal abnormalities	55	0.1	41	0.0	19	0.0	8	0.0	3	0.0	1	0.0	15	3.0
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1,778	1.7	1,846	1.7	1,588	1.9	944	2.1	350	2.1	81	2.4	11	2.1
Injury, poisoning and certain other consequences of external causes	6,239	6.0	7,542	7.0	7,304	8.9	4,778	10.4	1,988	12.0	431	12.7	63	12.1
Factors influencing health status and contact with health services	1,158	1.1	967	0.9	644	0.8	326	0.7	80	0.5	18	0.5	2	0.4
Not elsewhere classified	7,274	6.9	5,538	5.2	3,204	3.9	1,261	2.8	332	2.0	52	1.5	8	1.6
Total	104,830	100	107,231	100	82,302	100	45,746	100	16,541	100	3,392	100	518	100

source: Jeong et al., Korean National Health Accounts in 2015, Ministry of Health and Welfare, 2017

16 Comparative Analysis on Health Accounts by Disease, Age and Gender

Table 6 Age composition by Disease

	0-14		15-4	4	45-64		65 or above		(duplicat		Total	l
Classification of Diseases and Related Health Problems	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share
	won)	(%)	won)	(%)	won)	(%)	won)	(%)	won)	(%)	won)	(%)
Certain infectious and parasitic diseases	3,015	9.2	8,774	26.7	9,335	28.4	11,745	35.7	7,921	24.1	32,869	100
Neoplasms	2,496	2.6	15,137	15.7	38,347	39.9	40,214	41.8	19,163	19.9	96,193	100
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	2,213	13.8	8,877	55.3	3,401	21.2	1,547	9.6	806	5.0	16,039	100
Endocrine, nutritional and metabolic diseases	2,309	5.8	4,767	11.9	15,482	38.7	17,405	43.6	8,499	21.3	39,963	100
Mental and behavioural disorders	1,085	2.2	9,584	19.0	14,024	27.9	25,626	50.9	18,762	37.3	50,318	100
Diseases of the nervous system	1,504	3.7	5,016	12.4	10,991	27.2	22,830	56.6	12,878	31.9	40,341	100
Diseases of the eye and adnexa	6,835	18.3	8,259	22.1	10,448	28.0	11,790	31.6	4,803	12.9	37,332	100
Diseases of the ear and mastoid process	2,161	25.0	2,039	23.6	2,445	28.3	1,986	23.0	930	10.8	8,631	100
Diseases of the circulatory system	1,260	0.9	9,001	6.8	41,086	31.0	81,382	61.3	48,370	36.4	132,729	100
Diseases of the respiratory system	22,047	22.6	18,276	18.8	16,635	17.1	40,441	41.5	28,760	29.5	97,399	100
Diseases of the digestive system	7,735	6.1	38,419	30.3	44,279	34.9	36,465	28.7	19,433	15.3	126,898	100
Diseases of the skin and subcutaneous tissue	1,936	10.7	6,646	36.8	4,805	26.6	4,685	25.9	2,631	14.6	18,072	100
Diseases of the musculoskeletal system and connective tissue	4,682	3.6	25,752	19.5	49,357	37.4	52,040	39.5	23,851	18.1	131,831	100
Diseases of the genitourinary system	1,278	1.7	13,390	18.3	23,071	31.6	35,357	48.4	19,465	26.6	73,096	100
Pregnancy, childbirth and the puerperium	5	0.0	10,290	99.3	60	0.6	4	0.0	1	0.0	10,358	100
Certain conditions originating in the perinatal period	3,113	95.9	70	2.1	46	1.4	17	0.5	9	0.3	3,245	100
Congenital malformations, deformations and chromosomal abnormalities	1,819	53.2	863	25.3	526	15.4	209	6.1	88	2.6	3,417	100
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	2,603	11.6	5,453	24.3	6,302	28.1	8,101	36.1	4,821	21.5	22,460	100
Injury, poisoning and certain other consequences of external causes	6,118	6.2	27,541	28.0	30,465	30.9	34,382	34.9	22,106	22.4	98,507	100
Factors influencing health status and contact with health services	2,427	12.9	5,905	31.4	5,990	31.9	4,483	23.8	2,038	10.8	18,806	100
Not elsewhere classified	5,165	5.5	24,592	26.3	37,678	40.4	25,942	27.8	10,394	11.1	93,377	100
Total	81,808	7.1	248,652	21.6	364,771	31.7	456,651	39.6	255,729	22.2	1,151,882	100

source: Jeong et al., Korean National Health Accounts in 2015, Ministry of Health and Welfare, 2017

ii) Age composition by gender

- O As for men, 10-24 age group has lower health expenditure than 0-4 age group, but the expenditure increases in the above age groups. It peaks at 55-59 age group and then starts to decrease from 75-79 age group.
- O As for women, similarly, 10-19 age group has lower health expenditure than 0-4 age group, but the expenditure increases in the above age groups. In comparison to men, women's health expenditure is clearly higher from 25-29 age group or above. Similar to men, it is high at 55-59 age group but it peaks at 75-79 age group and then starts to decrease.

Table 7 Age composition by Gender

				Ger	ıder			
		M	en			Wor	men	
All ages	Current Health Expendi ture	Share	Health expendi ture per capita	Relative scale	Current Health Expendi ture	Share	Health expendi ture per capita	Relative scale
	(0.1 billion won)	(%)	(thousa nd won)	(0~4 = 1.0)	(billion won)	(%)	(thousa nd won)	(0~4 = 1.0)
0~4	15,585	2.9	1,359	1.0	13,614	2.2	1,251	1.0
5~9	15,542	2.9	1,337	1.0	15,144	2.4	1,388	1.1
10~14	11,771	2.2	936	0.8	10,151	1.6	875	0.7
subtotal(0~14)	42,898	8.1	1,203	2.8	38,909	6.3	1,165	2.9
15~19	13,352	2.5	805	0.9	11,769	1.9	778	0.9
20~24	14,253	2.7	788	0.9	14,107	2.3	894	1.0
25~29	15,176	2.9	959	1.0	18,224	2.9	1,260	1.3
30~34	19,872	3.7	1,071	1.3	26,979	4.3	1,536	2.0
35~39	25,282	4.8	1,312	1.6	27,837	4.5	1,500	2.0
40~44	30,218	5.7	1,411	1.9	31,584	5.1	1,523	2.3
subtotal(15~44)	118,153	22.3	1,077	7.6	130,499	21.0	1,277	9.6
45~49	35,937	6.8	1,671	2.3	36,447	5.9	1,723	2.7
50~54	44,135	8.3	2,107	2.8	47,298	7.6	2,305	3.5
55~59	53,090	10.0	2,761	3.4	53,033	8.5	2,733	3.9
60~64	47,292	8.9	3,508	3.0	47,540	7.6	3,370	3.5
subtotal(45~64)	180,453	34.0	2,401	11.6	184,318	29.6	2,452	13.5
65~69	47,542	9.0	4,682	3.1	48,549	7.8	4,404	3.6
70~74	48,015	9.1	6,081	3.1	56,815	9.1	5,849	4.2
75~79	44,163	8.3	8,020	2.8	63,068	10.1	7,831	4.6
80~84	29,633	5.6	10,758	1.9	52,669	8.5	9,837	3.9
85~89	13,891	2.6	14,121	0.9	31,856	5.1	11,662	2.3
90~94	4,418	0.8	15,468	0.3	12,122	1.9	12,687	0.9
95~99	797	0.2	16,494	0.1	2,595	0.4	13,144	0.2
100 or above	97	0.0	22,613	0.0	421	0.1	15,419	0.0
subtotal (65 or above)	188,556	35.6	6,823	12.1	268,095	43.1	7,045	19.7
Total	530,060	100	2,136	34.0	621,822	100	2,499	45.7

(b) Disease x Gender

- O Looking over 'Current Health Expenditure' by gender, women occupy 62 trillion and 182.2 billion won(54.0%) while men occupy 53 trillion and 71.6 billion won(46.1%). Health expenditure of women is more than 9 trillion won (7.8%) higher than that of men. Health expenditure of women is higher than that of men for most of diseases.
- For 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism', expenditure ratio of men and women is 77.9%: 22.1% which means men's side is higher, while for 'Diseases of the musculoskeletal system and connective tissue', the ratio is 36.3%: 63.7% which means women's side is higher.
- O As for men, 'Diseases of the circulatory system' (6 trillion 341.9 and billion won, 12.0%) is the highest, then follows in order 'Diseases of the digestive system'(6 trillion and 104.1 billion won, 11.5%), 'Diseases of the respiratory system'(4 trillion and 849.1 billion won, 9.1%), 'Diseases of the musculoskeletal system and connective tissue'(4 trillion and 787.9 billion won, 9.0%), 'Injury, poisoning and certain other consequences of external causes'(4 trillion and 748.7 billion won, 9.0%), 'Neoplasms'(4 trillion and 601.2 billion won, 8.7%).
- O As for women, 'Diseases of the musculoskeletal system and connective tissue'(8 trillion and 395.2 billion won, 13.5%) is the highest, then follows in order 'Diseases of the circulatory system' (6 trillion and 931.0 billion won, 11.1%), 'Diseases of the digestive system'(6 trillion and 585.7 billion won, 10.6%), 'Injury, poisoning and certain other consequences of external causes'(5 trillion and 102.0 billion won, 8.2%), 'Neoplasms'(5 trillion and 18.2 billion won, 8.1%), 'Diseases of the respiratory system'(4 trillion and

890.8 billion won, 7.9%).

Table 8 Disease composition by Gender

	Men		Wome	n	Gende	r ratio
Classification of Diseases and Related Health Problems	Current Health Expenditure (0.1 billion won)	Share (%)	Current Health Expenditure (0.1 billion won)	Share (%)	Men	Wom en
Certain infectious and parasitic diseases	16,216	3.1	16,653	2.7	49.3	50.7
Neoplasms	46,012	8.7	50,182	8.1	47.8	52.2
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	12,492	2.4	3,546	0.6	77.9	22.1
Endocrine, nutritional and metabolic diseases	18,464	3.5	21,500	3.5	46.2	53.8
Mental and behavioural disorders	22,159	4.2	28,159	4.5	44.0	56.0
Diseases of the nervous system	18,516	3.5	21,825	3.5	45.9	54.1
Diseases of the eye and adnexa	16,861	3.2	20,471	3.3	45.2	54.8
Diseases of the ear and mastoid process	3,855	0.7	4,776	0.8	44.7	55.3
Diseases of the circulatory system	63,419	12.0	69,310	11.1	47.8	52.2
Diseases of the respiratory system	48,491	9.1	48,908	7.9	49.8	50.2
Diseases of the digestive system	61,041	11.5	65,857	10.6	48.1	51.9
Diseases of the skin and subcutaneous tissue	8,748	1.7	9,324	1.5	48.4	51.6
Diseases of the musculoskeletal system and connective tissue	47,879	9.0	83,952	13.5	36.3	63.7
Diseases of the genitourinary system	34,258	6.5	38,837	6.2	46.9	53.1
Pregnancy, childbirth and the puerperium	=	=	10,358	1.7	-	100
Certain conditions originating in the perinatal period	1,751	0.3	1,494	0.2	54.0	46.0
Congenital malformations, deformations and chromosomal abnormalities	1,767	0.3	1,651	0.3	51.7	48.3
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	9,812	1.9	12,648	2.0	43.7	56.3
Injury, poisoning and certain other consequences of external causes	47,487	9.0	51,020	8.2	48.2	51.8
Factors influencing health status and contact with health services	8,343	1.6	10,462	1.7	44.4	55.6
Not elsewhere classified	42,490	8.0	50,887	8.2	45.5	54.5
Total	530,060	100	621,822	100	46.0	54.0

Disease x Financing Scheme

Financing scheme composition by disease

- O For majority of diseases, the proportion of 'Governmental financing schemes and compulsory contributory health financing schemes' is around 60% and that of 'Household out-of-pocket payment' is over 25%.
- The diseases that have high proportion of 'Governmental financing schemes and compulsory contributory health financing schemes'(HF.1) are in order 'Certain conditions originating in the perinatal period' (75.9%), 'Mental and behavioural disorders' (71.1%), 'Diseases of the nervous system'(68.1%), 'Pregnancy, childbirth and the puerperium'(66.9%), 'Neoplasms' (66.0%). This results from the influence of various government subsidy measures against low birth rate and lowering of household co-payment rate for cancer. In contrast, the diseases that have low proportion of 'Governmental financing schemes and compulsory contributory health financing schemes' are 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism'(34.3%), 'Diseases of the eye and adnexa'(39.5%), 'Diseases of the digestive system'(42.4%).
- The diseases that have high proportion of 'Household out-of-pocket payment'(HF.3) are in order 'Diseases of the eye and adnexa'(55.3%), 'Diseases of the digestive system'(53.4%), 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism'(45.4%), 'Factors influencing health status and contact with health services' (42.3%). In contrast, the diseases that have low proportion are 'Certain conditions originating in the perinatal period'(15.4%) and 'Neoplasms'(25.4%).
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Table 9 Financing scheme composition by Disease

Classification of Diseases and Related Health	Governmental finan and compulsory of health financing	contributory	Voluntary health of schemes (other		Household out- paymer		Total	
Problems	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share
	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)
Certain infectious and parasitic diseases	20,761	63.2	1,929	5.9	10,179	31.0	32,869	100
Neoplasms	63,487	66.0	8,316	8.6	24,390	25.4	96,193	100
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	5,495	34.3	3,256	20.3	7,288	45.4	16,039	100
Endocrine, nutritional and metabolic diseases	24,106	60.3	1,306	3.3	14,551	36.4	39,963	100
Mental and behavioural disorders	35,757	71.1	134	0.3	14,428	28.7	50,318	100
Diseases of the nervous system	27,490	68.1	1,676	4.2	11,174	27.7	40,341	100
Diseases of the eye and adnexa	14,761	39.5	1,939	5.2	20,632	55.3	37,332	100
Diseases of the ear and mastoid process	4,774	55.3	718	8.3	3,139	36.4	8,631	100
Diseases of the circulatory system	80,335	60.5	8,034	6.1	44,360	33.4	132,729	100
Diseases of the respiratory system	61,742	63.4	5,506	5.7	30,151	31.0	97,399	100
Diseases of the digestive system	53,788	42.4	5,296	4.2	67,815	53.4	126,898	100
Diseases of the skin and subcutaneous tissue	10,317	57.1	987	5.5	6,768	37.4	18,072	100
Diseases of the musculoskeletal system and connective tissue	66,574	50.5	20,362	15.4	44,895	34.1	131,831	100
Diseases of the genitourinary system	46,616	63.8	3,968	5.4	22,512	30.8	73,096	100
Pregnancy, childbirth and the puerperium	6,925	66.9	71	0.7	3,362	32.5	10,358	100
Certain conditions originating in the perinatal period	2,462	75.9	283	8.7	500	15.4	3,245	100
Congenital malformations, deformations and chromosomal abnormalities	1,993	58.3	497	14.5	927	27.1	3,417	100
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	10,659	47.5	3,171	14.1	8,629	38.4	22,460	100
Injury, poisoning and certain other consequences of external causes	61,656	62.6	10,037	10.2	26,814	27.2	98,507	100
Factors influencing health status and contact with health services	10,674	56.8	172	0.9	7,959	42.3	18,806	100
Not elsewhere classified	39,249	42.0	789	0.8	53,338	57.1	93,377	100
Total	649,621	56.4	78,450	6.8	423,811	36.8	1,151,882	100

ii) Disease composition by financing scheme

- O In terms of the share of 'Governmental financing schemes and compulsory contributory health financing schemes'(HF.1), 'Diseases of the circulatory system' of 12.4% is the highest, then follows 'Diseases of the musculoskeletal system and connective tissue' of 10.2% and 'Neoplasms' of 9.8%.
- \circ In terms of the share of 'Voluntary health care payment schemes (other than OOP)' (HF.2), 'Diseases of the musculoskeletal system and connective tissue'(2 trillion and 36.2 billion won, 26.0%) is the highest, then follows 'Injury, poisoning and certain other consequences of external causes'(1 trillion and 3.7 billion won, 12.8%) and 'Neoplasms' (831.6 billion won, 10.6%).
- \circ In terms of the share of 'Household out-of-pocket payment'(HF.3), 'Diseases of the digestive system'(6 trillion and 781.5 billion won, 16.0%) is the highest, then follows 'Diseases of the musculoskeletal system and connective tissue'(4 trillion and 489.5 billion won, 10.6%) and 'Diseases of the circulatory system'(4 trillion and 436.0 billion won, 10.5%).

Table 10 Disease composition by financing Scheme

	Governmental finan and compulsory of health financing	contributory	Voluntary health of schemes (other		Household out— paymer	•	Total	
Classification of Diseases and Related Health Problems	Current Health Expenditure (0.1 billion won)	Share (%)	Current Health Expenditure (0.1 billion won)	Share (%)	Current Health Expenditure (0.1 billion won)	Share (%)	Current Health Expenditure (0.1 billion won)	Share (%)
Certain infectious and parasitic diseases	20,761	3.2	1,929	2.5	10,179	2.4	32,869	2.9
Neoplasms	63,487	9.8	8,316	10.6	24,390	5.8	96,193	8.4
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	5,495	0.8	3,256	4.2	7,288	1.7	16,039	1.4
Endocrine, nutritional and metabolic diseases	24,106	3.7	1,306	1.7	14,551	3.4	39,963	3.5
Mental and behavioural disorders	35,757	5.5	134	0.2	14,428	3.4	50,318	4.4
Diseases of the nervous system	27,490	4.2	1,676	2.1	11,174	2.6	40,341	3.5
Diseases of the eye and adnexa	14,761	2.3	1,939	2.5	20,632	4.9	37,332	3.2
Diseases of the ear and mastoid process	4,774	0.7	718	0.9	3,139	0.7	8,631	0.7
Diseases of the circulatory system	80,335	12.4	8,034	10.2	44,360	10.5	132,729	11.5
Diseases of the respiratory system	61,742	9.5	5,506	7.0	30,151	7.1	97,399	8.5
Diseases of the digestive system	53,788	8.3	5,296	6.8	67,815	16.0	126,898	11.0
Diseases of the skin and subcutaneous tissue	10,317	1.6	987	1.3	6,768	1.6	18,072	1.6
Diseases of the musculoskeletal system and connective tissue	66,574	10.2	20,362	26.0	44,895	10.6	131,831	11.4
Diseases of the genitourinary system	46,616	7.2	3,968	5.1	22,512	5.3	73,096	6.3
Pregnancy, childbirth and the puerperium	6,925	1.1	71	0.1	3,362	0.8	10,358	0.9
Certain conditions originating in the perinatal period	2,462	0.4	283	0.4	500	0.1	3,245	0.3
Congenital malformations, deformations and chromosomal abnormalities	1,993	0.3	497	0.6	927	0.2	3,417	0.3
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	10,659	1.6	3,171	4.0	8,629	2.0	22,460	1.9
Injury, poisoning and certain other consequences of external causes	61,656	9.5	10,037	12.8	26,814	6.3	98,507	8.6
Factors influencing health status and contact with health services	10,674	1.6	172	0.2	7,959	1.9	18,806	1.6
Not elsewhere classified	39,249	6.0	789	1.0	53,338	12.6	93,377	8.1
Total	649,621	100	78,450	100	423,811	100	1,151,882	100

(d) Disease x Function

- O In terms of function composition by disease, proportion of 'Curative care'(HC.1) is the highest, then follows 'Medical goods non-specified by function'(HC.5) and 'Long-term care (Health)'(HC.3). (* The 'Long-term care (Health)'(HC.3) here includes not only expenditure for LTC services paid by the LTC Health Insurance but also for LTC hospital services paid by the Health Insurance.)
- For exception, 'Diseases of the eve and adnexa' (55.1%), 'Endocrine, nutritional and metabolic diseases' (52.6%). 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism'(52.2%), 'Diseases of the circulatory system'(35.9%) have 'Medical goods non-specified by function'(HC.5) expenditure higher than that of 'Curative care' (HC.1).
- For exception, 'Diseases of the nervous system' (46.7%) is the only disease that has the 'Long-term care (Health)' (HC.3) expenditure higher than that of 'Curative care' (HC.1).
- O In terms of disease composition by function, among curative care expenditure 'Diseases of the digestive system' is the highest, among rehabilitative care expenditure 'Diseases of the nervous system' is the highest, among LTC expenditure 'Diseases of the circulatory system' is the highest, and among health goods (pharmaceuticals) expenditure 'Diseases of the circulatory system' is the highest.
- The order of 'Curative care' (HC.1) expenditure is 'Diseases of the digestive system'(16.8%), 'Diseases of the musculoskeletal system and connective tissue'(14.7%), 'Injury, poisoning and certain other consequences of external causes' (10.7%), 'Neoplasms' (9.1%).

- The order of 'Rehabilitative care' (HC.2) expenditure is 'Diseases of the nervous system'(28.8%). 'Diseases of the circulatory system'(23.5%). 'Diseases of the musculoskeletal system and connective tissue' (19.5%). 'Injury, poisoning and certain other consequences of external causes'(9.7%).
- The order of 'Long-term care (Health)'(HC.3) expenditure is 'Diseases of circulatory system'(19.2%), 'Diseases of the respiratory system'(14.1%), 'Diseases of the nervous system'(10.6%), 'Diseases of the genitourinary system'(10.1%).
- The order of 'Medical goods non-specified by function' (HC.5) expenditure is 'Diseases of the circulatory system' (17.6%), 'Diseases of the musculoskeletal system and connective tissue'(9.4%), 'Endocrine, nutritional and metabolic diseases' (7.8%), 'Diseases of the eye and adnexa'(7.6%), 'Neoplasms'(7.2%).

Table 11 Function composition by Disease

				Total compos	ition ratio			
Classification of Diseases and Related Health Problems	Curative care (HC.1)	Rehabilitative care (HC.2)	Long-term care (Health) (HC.3)	Ancillary services (non-specified by function) (HC.4)	Medical goods (non-specified by function) (HC.5)	Preventive care (HC.6)	Governance and health system and financing administration (HC.7)	Total
Certain infectious and parasitic diseases	44.1	0.1	21.5	1.2	27.8	2.4	2.9	100
Neoplasms	56.5	0.3	14.2	0.3	20.3	3.2	5.2	100
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	36.0	2.4	3.6	0.2	52.2	1.9	3.7	100
Endocrine, nutritional and metabolic diseases	31.9	0.1	10.4	2.6	52.6	0.6	1.7	100
Mental and behavioural disorders	40.8	0.2	32.4	0.1	20.3	2.8	3.3	100
Diseases of the nervous system	24.6	9.1	46.7	0.7	13.5	2.2	3.3	100
Diseases of the eye and adnexa	38.0	0.0	3.2	0.1	55.1	1.4	2.3	100
Diseases of the ear and mastoid process	64.0	0.1	2.5	1.3	26.2	2.5	3.4	100
Diseases of the circulatory system	30.7	2.3	25.7	1.2	35.9	1.5	2.7	100
Diseases of the respiratory system	46.8	0.1	25.7	3.5	19.9	1.8	2.3	100
Diseases of the digestive system	79.0	0.0	6.2	0.6	9.7	2.0	2.4	100
Diseases of the skin and subcutaneous tissue	59.0	0.1	10.3	2.5	23.8	2.0	2.4	100
Diseases of the musculoskeletal system and connective tissue	66.6	1.9	5.3	0.8	19.2	2.0	4.3	100
Diseases of the genitourinary system	47.2	0.1	24.6	0.9	22.5	1.9	2.9	100
Pregnancy, childbirth and the puerperium	85.9	0.0	0.0	0.0	2.5	6.4	5.3	100
Certain conditions originating in the perinatal period	77.8	3.9	0.3	0.0	4.6	5.3	8.1	100
Congenital malformations, deformations and chromosomal abnormalities	69.4	4.2	1.5	0.1	12.3	6.0	6.4	100
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	59.3	2.7	13.9	3.5	14.6	2.1	3.8	100
Injury, poisoning and certain other consequences of external causes	64.7	1.3	17.2	1.5	5.8	2.5	7.0	100
Factors influencing health status and contact with health services	66.6	1.3	8.9	0.1	17.6	2.6	2.9	100
Not elsewhere classified	38.8	0.2	0.1	0.0	37.7	22.7	0.5	100
Total	51.8	1.1	15.4	1.1	23.5	3.8	3.3	100

Table 12 Disease composition by Function

							Ancillary se	rvices	Medical go	node.			Governance	e and		
Classification of Diseases and Related Health	Curative (HC.1)		Rehabilitativ (HC.2)		Long-term (Health (HC.3))	(non-specifi function (HC.4)	ed by	(non-specifing function (HC.5)	ied by	Preventive (HC.6)		health syste financin administra (HC.7)	g tion	Total	
Problems	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share
	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)
Certain infectious and parasitic diseases	14,488	2.4	42	0.3	7,072	4.0	403	3.2	9,140	3.4	776	1.8	948	2.5	32,869	2.9
Neoplasms	54,322	9.1	308	2.4	13,641	7.7	323	2.6	19,485	7.2	3,105	7.1	5,010	13.1	96,193	8.4
Diseases of the blood and blood-forming organs																
and certain disorders involving the immune	5,775	1.0	381	3.0	576	0.3	37	0.3	8,365	3.1	304	0.7	601	1.6	16,039	1.4
mechanism																
Endocrine, nutritional and metabolic diseases	12,755	2.1	57	0.4	4,138	2.3	1,046	8.4	21,038	7.8	242	0.6	687	1.8	39,963	3.5
Mental and behavioural disorders	20,532	3.4	82	0.6	16,303	9.2	71	0.6	10,223	3.8	1,429	3.3	1,679	4.4	50,318	4.4
Diseases of the nervous system	9,929	1.7	3,673	28.8	18,838	10.6	280	2.3	5,432	2.0	872	2.0	1,317	3.4	40,341	3.5
Diseases of the eye and adnexa	14,174	2.4	3	0.0	1,200	0.7	35	0.3	20,552	7.6	524	1.2	843	2.2	37,332	3.2
Diseases of the ear and mastoid process	5,520	0.9	7	0.1	217	0.1	112	0.9	2,262	0.8	217	0.5	295	0.8	8,631	0.7
Diseases of the circulatory system	40,788	6.8	3,002	23.5	34,112	19.2	1,596	12.9	47,674	17.6	1,972	4.5	3,585	9.4	132,729	11.5
Diseases of the respiratory system	45,611	7.6	95	0.7	24,987	14,1	3,368	27.1	19,387	7.2	1,723	3.9	2,228	5.8	97,399	8.5
Diseases of the digestive system	100,275	16.8	35	0.3	7,905	4.4	797	6.4	12,288	4.5	2,533	5.8	3,065	8.0	126,898	11.0
Diseases of the skin and subcutaneous tissue	10,664	1.8	20	0.2	1,855	1.0	443	3.6	4,306	1.6	355	0.8	429	1.1	18,072	1.6
Diseases of the musculoskeletal system and	05 501		0.400	10.5	5.005	4.0	1.010	0.1	05.004		0.010	0.0	5.040	14.5	101.001	11.4
connective tissue	87,761	14.7	2,489	19.5	7,025	4.0	1,010	8.1	25,294	9.4	2,610	6.0	5,642	14.7	131,831	11.4
Diseases of the genitourinary system	34,520	5.8	46	0.4	17,996	10.1	626	5.0	16,438	6.1	1,356	3.1	2,114	5.5	73,096	6.3
Pregnancy, childbirth and the puerperium	8,895	1.5	0	0.0	0	0.0	0	0.0	255	0.1	658	1.5	548	1.4	10,358	0.9
Certain conditions originating in the perinatal	2,527	0.4	126	1.0	9	0.0	0	0.0	149	0.1	170	0.4	264	0.7	3,245	0.3
period	2,321	0.4	120	1.0	3	0.0	, ,	0.0	143	0.1	170	0.4	204	0.7	3,243	0.5
Congenital malformations, deformations and	2.372	0.4	145	1.1	51	0.0	5	0.0	420	0.2	205	0.5	219	0.6	3.417	0.3
chromosomal abnormalities	-,														-,	
Symptoms, signs and abnormal clinical and	13,329	2.2	616	4.8	3,132	1.8	787	6.3	3,277	1.2	463	1.1	855	2.2	22,460	1.9
laboratory findings, not elsewhere classified																
Injury, poisoning and certain other	63,753	10.7	1,242	9.7	16,941	9.5	1,439	11.6	5,752	2.1	2,461	5.6	6,918	18.1	98,507	8.6
consequences of external causes Factors influencing health status and contact																
-	12,533	2.1	235	1.8	1,676	0.9	15	0.1	3,312	1.2	484	1.1	551	1.4	18,806	1.6
with health services Not elsewhere classified	36,260	6.1	150	1.2	119	0.1	11	0.1	35.165	13.0	21,178	48.5	493	1.3	93,377	8.1
TYOU CISCARIETE CIASSIFICE	30,200	0.1	130	1.2	119	0.1	11	0.1	33,103	10.0	21,110	40.0	430	1.0	30,011	0.1
Total	596,782	100	12,754	100	177,795	100	12,404	100	270,216	100	43,638	100	38,293	100	1,151,882	100

Disease x Provider

Provider composition by disease

- O Provider composition among the entire 'Current Health Expenditure' is 'Hospitals' (HP.1) of 43.0%. 'Providers of ambulatory health care' (HP.3) of 29.2%, 'Retailers and other providers of medical goods' (HP.5) of 18.1%. Though looking into individual diseases, each has varying provider composition. Especially both 'Hospitals' (HP.1) and 'Providers of ambulatory health care' (HP.3) providers' health expenditures vary notably by specific diseases, having replacement and complementary relationship with each other.
- 'Certain conditions originating in the perinatal period' (80.8%), 'Neoplasms' (70.6%), 'Congenital malformations, deformations and abnormalities'(70.6%). 'Diseases chromosomal the system' (59.2%), and 'Certain infectious and parasitic diseases' (54.9%) usually have 'Hospitals' (HP.1) as their provider.
- 'Mental and behavioural disorders' (15.9%) and 'Diseases of the nervous system'(10.4%) have as a provider 'Residential long-term care facilities'(HP.2) to some degree.
- 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism'(58.6%), and 'Diseases of the digestive system' (58.5%) have 'Providers of ambulatory health care' (HP.3) as their usual provider, and also have 'Pregnancy, childbirth and the puerperium'(45.5%), 'Diseases of the skin and subcutaneous tissue'(44.0%). 'Diseases of the musculoskeletal system and connective tissue'(39.8%) have as their provider 'Providers of ambulatory health

care'(HP.3) as much as 'Hospitals'(HP.1).

'Diseases of the eve and adnexa' (51.7%), 'Endocrine, nutritional and metabolic disease'(45.5%) have 'Retailers and other providers of medical goods'(HP.5) expenditure higher than both 'Hospitals'(HP.1) and 'Providers of ambulatory health care' (HP.3) expenditure. 'Diseases of the circulatory system'(34.1%) has 'Retailers and other providers of medical goods'(HP.5) expenditure similar to 'Hospitals'(HP.1) expenditure.

ii) Disease Composition by Provider

- $\, \circ \,$ Looking over the disease composition by provider, 'Hospitals'(HP.1) has a relatively even distribution of various diseases, while 'Providers of ambulatory health care'(HP.3) and 'Retailers and other providers of medical goods'(HP.5) have their expenditure focused on specific diseases.
- Though expenditure in 'Hospitals' (HP.1) has a relatively even distribution of various diseases, 'Neoplasms'(13.7%) is the highest, next is 'Diseases of the circulatory system'(11.3%), and 'Injury, poisoning and certain other consequences of external causes'(11.2%), 'Diseases of the musculoskeletal system and connective tissue'(10.8%) follows.
- Expenditure in 'Residential long-term care facilities'(HP.2) is highest for 'Mental and behavioural disorders' (30.2%), then 'Diseases of the circulatory system'(27.8%), then 'Diseases of the nervous system'(15.8%).
- Expenditure in 'Providers of ambulatory health care' (HP.3) is highest for 'Diseases of the digestive system'(22.1%), then 'Diseases of the musculoskeletal system and connective tissue'(15.6%).
- Expenditure in 'Providers of ancillary services' (HP.4) is highest for 'Diseases of the respiratory system'(28.5%), then 'Diseases of the circulatory system'(13.4%).
- Expenditure in 'Retailers and other providers of medical goods'(HP.5) is highest for 'Diseases of the circulatory system'(21.7%) and the rest is relatively evenly distributed over other diseases.

Table 13 Provider composition by Disease

Classification of Diseases and Related Health Problems	Hospitals (HP.1)	Rehabilitativ e care (HP.2)	Providers of ambulatory health care (HP.3)	Providers of ancillary services (HP.4)	Retailers and other providers of medical goods (HP.5)	Providers of preventive care (HP.6)	Providers of health care system admin. and financing (HP.7)	Rest of economy (HP.8)	Rest of the world (HP.9)
Certain infectious and parasitic diseases	54.9	0.7	15.8	1.2	22.2	1.5	3.3	0.4	0.1
Neoplasms	70.6	1.6	7.5	0.2	11.4	1.7	5.7	0.6	0.8
Diseases of the blood and blood-forming organs									
and certain disorders involving the immune	33.4	0.2	58.6	0.2	1.9	1.2	4.1	0.3	0.1
mechanism									
Endocrine, nutritional and metabolic diseases	31.7	1.9	14.4	2.5	45.5	0.9	1.8	1.2	0.0
Mental and behavioural disorders	46.5	15.9	24.6	0.1	7.2	1.6	3.8	0.3	0.0
Diseases of the nervous system	59.2	10.4	13.3	0.6	11.2	1.2	3.6	0.4	0.1
Diseases of the eye and adnexa	18.7	0.0	26.0	0.1	51.7	0.8	2.5	0.2	0.0
Diseases of the ear and mastoid process	31.9	0.1	36.1	1.3	24.8	1.5	3.8	0.3	0.2
Diseases of the circulatory system	42.1	5.4	9.4	1.2	34.1	2.0	3.0	2.5	0.3
Diseases of the respiratory system	46.8	0.8	26.1	3.4	18.0	1.3	2.6	1.0	0.1
Diseases of the digestive system	28.6	0.1	58.5	0.6	7.7	1.2	2.8	0.4	0.1
Diseases of the skin and subcutaneous tissue	26.9	0.8	44.0	2.4	21.0	1.3	2.7	0.9	0.0
Diseases of the musculoskeletal system and connective tissue	40.5	0.8	39.8	0.6	11.4	1.3	4.6	0.9	0.1
Diseases of the genitourinary system	48.7	1.1	34.1	0.8	10.4	1.1	3.2	0.6	0.1
Pregnancy, childbirth and the puerperium	40.9	0.0	45.5	0.0	2.1	4.7	6.4	0.2	0.2
Certain conditions originating in the perinatal period	80.8	0.1	5.0	-	0.5	2.6	8.9	0.2	1.9
Congenital malformations, deformations and chromosomal abnormalities	70.6	0.3	7.8	0.0	8.5	3.7	7.4	0.4	1.4
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	57.0	1.0	21.5	3.2	10.9	1.3	4.2	0.8	0.1
Injury, poisoning and certain other consequences of external causes	56.4	1.2	27.7	1.3	4.2	1.5	7.4	0.2	0.1
Factors influencing health status and contact with health services	58.7	0.2	28.0	0.1	7.0	1.6	3.3	0.7	0.4
Not elsewhere classified	15.2	0.1	41.1	0.0	37.5	3.4	2.2	0.5	0.0
Total	43.0	2.3	29.2	1.0	18.1	1.6	3.8	0.8	0.2

Table 14 Disease composition by Provider

	HF	1	HF		HF		HI		HF Retailers	
	Hosp		Residential		Providers of		Providers of		providers	
			care fa	cilities	health	ı care	serv	ices	goo	
Classification of Diseases and Related Health	Current		Current		Current		Current		Current	
Problems	Health	Share	Health	Share	Health	Share	Health	Share	Health	Share
	Expenditur e		Expenditur e		Expenditur e		Expenditur e		Expenditur e	
	(0.1 billion		(0.1 billion		(0.1 billion		(0.1 billion		(0.1 billion	
	won)	(%)	won)	(%)	won)	(%)	won)	(%)	won)	(%)
Certain infectious and parasitic diseases	18,038	3.6	243	0.9	5,179	1.5	388	3.4	7,281	3.5
Neoplasms	67,946	13.7	1,572	5.9	7,195	2.1	197	1.7	10,927	5.2
Diseases of the blood and blood-forming organs										
and certain disorders involving the immune	5,359	1.1	26	0.1	9,405	2.8	34	0.3	308	0.1
mechanism										
Endocrine, nutritional and metabolic diseases	12,678	2.6	742	2.8	5,753	1.7	1,018	8.9	18,164	8.7
Mental and behavioural disorders	23,390	4.7	7,988	30.2	12,371	3.7	67	0.6	3,643	1.7
Diseases of the nervous system	23,886	4.8	4,193	15.8	5,384	1.6	259	2.3	4,503	2.2
Diseases of the eye and adnexa	6,988	1.4	12	0.0	9,708	2.9	33	0.3	19,298	9.2
Diseases of the ear and mastoid process	2,755	0.6	8	0.0	3,115	0.9	110	1.0	2,144	1.0
Diseases of the circulatory system	55,885	11.3	7,227	27.3	12,497	3.7	1,536	13.4	45,305	21.7
Diseases of the respiratory system	45,560	9.2	783	3.0	25,382	7.5	3,275	28.5	17,522	8.4
Diseases of the digestive system	36,329	7.3	178	0.7	74,193	22.1	713	6.2	9,820	4.7
Diseases of the skin and subcutaneous tissue	4,854	1.0	138	0.5	7,947	2.4	436	3.8	3,800	1.8
Diseases of the musculoskeletal system and	53,341	10.8	1.063	4.0	52,485	15.6	818	7.1	15.010	7.2
connective tissue	55,541	10.6	1,003	4.0	32,403	15.0	010	7.1	15,010	1.2
Diseases of the genitourinary system	35,601	7.2	820	3.1	24,927	7.4	564	4.9	7,595	3.6
Pregnancy, childbirth and the puerperium	4,240	0.9	0	0.0	4,716	1.4	0	0.0	213	0.1
Certain conditions originating in the perinatal	2,622	0.5	2	0.0	163	0.0	_	_	15	0.0
period	2,022	0.5	2	0.0	103	0.0			10	0.0
Congenital malformations, deformations and	2,412	0.5	11	0.0	265	0.1	0	0.0	290	0.1
chromosomal abnormalities	2,412	0.5	11	0.0	203	0.1	U U	0.0	230	0.1
Symptoms, signs and abnormal clinical and	12,808	2.6	218	0.8	4.822	1.4	718	6.3	2,454	1.2
laboratory findings, not elsewhere classified	12,000	2.0	210	0.0	4,022	1.4	710	0.5	2,404	1,2
Injury, poisoning and certain other consequences	55,544	11.2	1,143	4.3	27,257	8.1	1,295	11.3	4,134	2.0
of external causes	55,544	11.2	1,140	4.0	21,201	0.1	1,230	11.0	4,104	2.0
Factors influencing health status and contact with	11.047	2.2	33	0.1	5,273	1.6	11	0.1	1,312	0.6
health services	, ,				,				, i	
Not elsewhere classified	14,212	2.9	53	0.2	38,404	11.4	11	0.1	35,050	16.8
Total	495,494	100	26,456	100	336,440	100	11,483	100	208,789	100

Table 14 Disease composition by Provider (continued)

Classification of Diseases and Related Health	HP.6 Providers of care	preventive	HP. Providers of care system and fina	of health n admin.	HP.: Rest of ea		HP.S Rest of the		Tota	1
Problems	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share
	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)
Certain infectious and parasitic diseases	488	2.6	1,077	2.5	135	1.5	41	2.1	32,869	2.9
Neoplasms	1,635	8.8	5,453	12.6	547	6.0	722	36.4	96,193	8.4
Diseases of the blood and blood-forming organs										
and certain disorders involving the immune	193	1.0	655	1.5	42	0.5	17	0.9	16,039	1.4
mechanism										
Endocrine, nutritional and metabolic diseases	370	2.0	732	1.7	486	5.3	19	0.9	39,963	3.5
Mental and behavioural disorders	792	4.3	1,896	4.4	156	1.7	15	0.7	50,318	4.4
Diseases of the nervous system	476	2.6	1,447	3.3	151	1.6	43	2.2	40,341	3.5
Diseases of the eye and adnexa	286	1.5	923	2.1	67	0.7	18	0.9	37,332	3.2
Diseases of the ear and mastoid process	129	0.7	331	0.8	25	0.3	14	0.7	8,631	0.7
Diseases of the circulatory system	2,700	14.5	3,936	9.1	3,297	35.9	347	17.5	132,729	11.5
Diseases of the respiratory system	1,300	7.0	2,531	5.8	942	10.3	103	5.2	97,399	8.5
Diseases of the digestive system	1,551	8.3	3,509	8.1	477	5.2	127	6.4	126,898	11.0
Diseases of the skin and subcutaneous tissue	238	1.3	492	1.1	162	1.8	7	0.4	18,072	1.6
Diseases of the musculoskeletal system and connective tissue	1,724	9.3	6,057	13.9	1,239	13.5	93	4.7	131,831	11.4
Diseases of the genitourinary system	774	4.2	2,316	5.3	415	4.5	83	4.2	73,096	6.3
Pregnancy, childbirth and the puerperium	483	2.6	659	1.5	21	0.2	25	1.2	10,358	0.9
Certain conditions originating in the perinatal period	86	0.5	288	0.7	7	0.1	63	3.2	3,245	0.3
Congenital malformations, deformations and chromosomal abnormalities	125	0.7	254	0.6	13	0.1	47	2.4	3,417	0.3
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	299	1.6	933	2.1	184	2.0	24	1.2	22,460	1.9
Injury, poisoning and certain other consequences of external causes	1,484	8.0	7,318	16.8	239	2.6	93	4.7	98,507	8.6
Factors influencing health status and contact with health services	297	1.6	628	1.4	124	1.4	81	4.1	18,806	1.6
Not elsewhere classified	3,194	17.2	2,010	4.6	442	4.8	1	0.0	93,377	8.1
Total	18,624	100	43,443	100	9,171	100	1,981	100	1,151,882	100

(3) Three-dimensional Composition

- O 'Current Health Expenditure' can be analyzed from various angles because it is constructed upon multi-dimensions: financing (HF), function (HC), provider (HP), disease, gender and age.
- To be precise, financing is comprised of two dimensions financing scheme (HF) and revenue of financing scheme (FS), and function (HC) has also two dimensions such as 'episode of care' and 'mode of production'.
- In the case of provider dimension, expenditure data according to domestic provider classification are also established apart from data according to SHA-HP classification so that it has more dimensions to perform analysis.
- This paper provides representative examples of multi-dimensional analysis.

Age Composition by Disease · Gender

- O In the case of 'Diseases of the circulatory system' which has the highest health expenditure size, among men the age 70-74 group has the highest expenditure share (13.3%), and among women the age 75-79 group has the highest expenditure share (17.7%). This shows the difference of aging between men and women related with the difference in average lifespan between men and women.
- O In the case of 'Diseases of the musculoskeletal system and connective tissue' which has the second highest health expenditure size, among men the age 55-59 group has the highest expenditure share (10.7%), and

among women the age 70-74 group has the highest expenditure share (12.2%). This confirms that men have higher share of 'Diseases of the musculoskeletal system and connective tissue' caused by their social activities while women have their 'Diseases of the musculoskeletal system and connective tissue' resulting from aging.

Table 15 Age composition by Disease Gender (Men: summary version)

	0-14		15-4	4	45-6	4	65 or ab	ove	(duplicati		Total	
Classification of Diseases and Related Health Problems	Current Health Expenditure (0.1 billion won)	Share (%)	Current Health Expenditure (0.1 billion won)	Share (%)	Current Health Expenditure (0.1 billion won)	Share (%)	Current Health Expenditure (0.1 billion won)	Share	Current Health Expenditure (0.1 billion won)	Share	Current Health Expenditure (0.1 billion won)	Share (%)
Certain infectious and parasitic diseases	1,596	9.8	4,817	29.7	5,137	31.7	4,666	28.8	2,771	17.1	16,216	100
Neoplasms	1,020	2.2	5,166	11.2	17,734	38.5	22,092	48.0	9,931	21.6	46,012	100
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	1,776	14.2	7,584	60.7	2,397	19.2	736	5.9	286	2.3	12,492	100
Endocrine, nutritional and metabolic diseases	888	4.8	2,518	13.6	8,225	44.5	6,833	37.0	2,897	15.7	18,464	100
Mental and behavioural disorders	843	3.8	5,187	23.4	7,993	36.1	8,136	36.7	4,842	21.9	22,159	100
Diseases of the nervous system	846	4.6	2,635	14.2	5,821	31.4	9,214	49.8	4,500	24.3	18,516	100
Diseases of the eye and adnexa	3,104	18.4	3,760	22.3	4,715	28.0	5,282	31.3	1,824	10.8	16,861	100
Diseases of the ear and mastoid process	1,195	31.0	895	23.2	1,015	26.3	750	19.5	307	8.0	3,855	100
Diseases of the circulatory system	609	1.0	5,347	8.4	24,580	38.8	32,883	51.9	16,650	26.3	63,419	100
Diseases of the respiratory system	11,716	24.2	8,277	17.1	7,767	16.0	20,730	42.8	13,981	28.8	48,491	100
Diseases of the digestive system	3,961	6.5	18,870	30.9	22,400	36.7	15,810	25.9	7,399	12.1	61,041	100
Diseases of the skin and subcutaneous tissue	1,010	11.5	3,241	37.0	2,435	27.8	2,061	23.6	964	11.0	8,748	100
Diseases of the musculoskeletal system and connective tissue	2,303	4.8	13,204	27.6	18,101	37.8	14,271	29.8	5,993	12.5	47,879	100
Diseases of the genitourinary system	675	2.0	4,604	13.4	11,446	33.4	17,534	51.2	8,504	24.8	34,258	100
Pregnancy, childbirth and the puerperium	=.	-	-	-	-	-	-	-	=-	-	=-	_
Certain conditions originating in the perinatal period	1,691	96.6	32	1.8	22	1.3	6	0.4	1	0.1	1,751	100
Congenital malformations, deformations and chromosomal abnormalities	979	55.4	447	25.3	255	14.4	86	4.8	27	1.5	1,767	100
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1,363	13.9	2,402	24.5	2,788	28.4	3,260	33.2	1,729	17.6	9,812	100
Injury, poisoning and certain other consequences of external causes	3,526	7.4	17,045	35.9	15,971	33.6	10,945	23.0	5,471	11.5	47,487	100
Factors influencing health status and contact with health services	1,222	14.6	1,391	16.7	3,595	43.1	2,134	25.6	823	9.9	8,343	100
Not elsewhere classified	2,575	6.1	10,732	25.3	18,056	42.5	11,126	26.2	4,100	9.6	42,490	100
Total	42,898	8.1	118,153	22.3	180,453	34.0	188,556	35.6	92,999	17.5	530,060	100

Table 16 Age composition by Disease Gender (Men: detailed version)

	0-	-4	5-	-9	10-	-14	15-	-19	20-	-24	25-	-29	30-	-34
Classification of Diseases and Related Health Problems	Current Health Expenditur	Share												
	e (0.1 billion won)	(%)												
Certain infectious and parasitic diseases	757	4.7	496	3.1	343	2.1	401	2.5	483	3.0	671	4.1	906	5.6
Neoplasms	193	0.4	458	1.0	369	0.8	454	1.0	427	0.9	522	1.1	843	1.8
Diseases of the blood and blood-forming organs														
and certain disorders involving the immune	239	1.9	665	5.3	872	7.0	1,312	10.5	1,635	13.1	1,059	8.5	1,301	10.4
mechanism														
Endocrine, nutritional and metabolic diseases	94	0.5	262	1.4	532	2.9	344	1.9	213	1.2	209	1.1	289	1.6
Mental and behavioural disorders	34	0.2	319	1.4	490	2.2	613	2.8	672	3.0	647	2.9	781	3.5
Diseases of the nervous system	262	1.4	317	1.7	267	1.4	287	1.5	307	1.7	353	1.9	460	2.5
Diseases of the eye and adnexa	520	3.1	1,528	9.1	1,055	6.3	454	2.7	516	3.1	378	2.2	346	2.1
Diseases of the ear and mastoid process	704	18.3	274	7.1	216	5.6	133	3.5	95	2.5	92	2.4	121	3.1
Diseases of the circulatory system	103	0.2	291	0.5	215	0.3	258	0.4	338	0.5	416	0.7	749	1.2
Diseases of the respiratory system	6,030	12.4	3,936	8.1	1,750	3.6	1,619	3.3	1,021	2.1	1,010	2.1	1,332	2.7
Diseases of the digestive system	678	1.1	2,103	3.4	1,180	1.9	1,637	2.7	2,409	3.9	2,719	4.5	3,525	5.8
Diseases of the skin and subcutaneous tissue	367	4.2	335	3.8	309	3.5	456	5.2	498	5.7	543	6.2	600	6.9
Diseases of the musculoskeletal system and connective tissue	274	0.6	1,161	2.4	869	1.8	1,051	2.2	1,273	2.7	1,586	3.3	2,403	5.0
Diseases of the genitourinary system	218	0.6	265	0.8	191	0.6	211	0.6	317	0.9	512	1.5	817	2.4
Pregnancy, childbirth and the puerperium	-	-	-	_	-	_	-	-	-	_	-	-	-	_
Certain conditions originating in the perinatal period	1,633	93.3	44	2.5	14	0.8	4	0.2	3	0.2	4	0.2	5	0.3
Congenital malformations, deformations and chromosomal abnormalities	712	40.3	156	8.8	111	6.3	124	7.0	78	4.4	55	3.1	59	3.4
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	526	5.4	525	5.4	312	3.2	339	3.5	260	2.7	300	3.1	390	4.0
Injury, poisoning and certain other consequences of external causes	618	1.3	1,293	2.7	1,614	3.4	2,400	5.1	2,313	4.9	2,543	5.4	2,992	6.3
Factors influencing health status and contact with health services	683	8.2	294	3.5	245	2.9	165	2.0	132	1.6	148	1.8	192	2.3
Not elsewhere classified	939	2.2	818	1.9	818	1.9	1,089	2.6	1,264	3.0	1,409	3.3	1,762	4.1
Total	15,585	2.9	15,542	2.9	11,771	2.2	13,352	2.5	14,253	2.7	15,176	2.9	19,872	3.7

Table 16 Age composition by Disease-Gender (Men: detailed version, continued)

	35-	-39	40-	-44	45-	-49	50-	-54	55-	-59	60-	-64	65-	-69
Classification of Diseases and Related Health Problems	Current Health Expenditur	Share												
	e (0.1 billion won)	(%)												
Certain infectious and parasitic diseases	1,088	6.7	1,268	7.8	1,362	8.4	1,415	8.7	1,365	8.4	995	6.1	922	5.7
Neoplasms	1,234	2.7	1,686	3.7	2,454	5.3	4,002	8.7	5,707	12.4	5,571	12.1	6,019	13.1
Diseases of the blood and blood-forming organs														
and certain disorders involving the immune mechanism	1,408	11.3	869	7.0	993	8.0	587	4.7	510	4.1	306	2.4	234	1.9
Endocrine, nutritional and metabolic diseases	534	2.9	929	5.0	1,404	7.6	1,967	10.7	2,520	13.6	2,333	12.6	2,022	10.9
Mental and behavioural disorders	1,006	4.5	1,468	6.6	1,885	8.5	2,122	9.6	2,218	10.0	1,769	8.0	1,581	7.1
Diseases of the nervous system	540	2.9	688	3.7	917	5.0	1,269	6.9	1,809	9.8	1,826	9.9	2,262	12.2
Diseases of the eye and adnexa	1,247	7.4	819	4.9	908	5.4	998	5.9	1,630	9.7	1,179	7.0	2,229	13.2
Diseases of the ear and mastoid process	155	4.0	300	7.8	218	5.7	255	6.6	291	7.6	250	6.5	241	6.3
Diseases of the circulatory system	1,299	2.0	2,287	3.6	3,666	5.8	5,626	8.9	7,543	11.9	7,745	12.2	7,806	12.3
Diseases of the respiratory system	1,631	3.4	1,665	3.4	1,613	3.3	1,781	3.7	2,173	4.5	2,200	4.5	2,900	6.0
Diseases of the digestive system	3,923	6.4	4,657	7.6	5,264	8.6	5,880	9.6	6,385	10.5	4,870	8.0	3,868	6.3
Diseases of the skin and subcutaneous tissue	569	6.5	575	6.6	613	7.0	634	7.2	650	7.4	538	6.1	529	6.1
Diseases of the musculoskeletal system and connective tissue	3,187	6.7	3,703	7.7	3,940	8.2	4,553	9.5	5,125	10.7	4,483	9.4	4,307	9.0
Diseases of the genitourinary system	1,179	3.4	1,569	4.6	1,939	5.7	2,571	7.5	3,423	10.0	3,513	10.3	4,317	12.6
Pregnancy, childbirth and the puerperium	-	_	-	-	-	-	-	-	-	-	-	-	-	_
Certain conditions originating in the perinatal period	8	0.4	8	0.4	6	0.4	6	0.4	5	0.3	4	0.2	3	0.2
Congenital malformations, deformations and chromosomal abnormalities	62	3.5	69	3.9	56	3.2	84	4.7	64	3.6	51	2.9	33	1.9
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	531	5.4	581	5.9	589	6.0	680	6.9	820	8.4	699	7.1	703	7.2
Injury, poisoning and certain other consequences of external causes	3,301	7.0	3,495	7.4	3,921	8.3	4,301	9.1	4,426	9.3	3,323	7.0	2,950	6.2
Factors influencing health status and contact with health services	285	3.4	469	5.6	623	7.5	881	10.6	1,110	13.3	981	11.8	743	8.9
Not elsewhere classified	2,095	4.9	3,113	7.3	3,562	8.4	4,523	10.6	5,316	12.5	4,655	11.0	3,872	9.1
Total	25,282	4.8	30,218	5.7	35,937	6.8	44,135	8.3	53,090	10.0	47,292	8.9	47,542	9.0

Table 16 Age composition by Disease-Gender (Men: detailed version, continued)

	70-	-74	75-	-79	80-	-84	85-	-89	90-	-94	95-	-99	100 or	above
Classification of Diseases and Related Health Problems	Current Health Expenditur e	Share												
	(0.1 billion won)	(%)												
Certain infectious and parasitic diseases	973	6.0	1,026	6.3	963	5.9	519	3.2	225	1.4	33	0.2	6	0.0
Neoplasms	6,142	13.3	5,311	11.5	3,020	6.6	1,221	2.7	330	0.7	45	0.1	4	0.0
Diseases of the blood and blood-forming organs and certain disorders involving the immune	217	1.7	127	1.0	91	0.7	40	0.3	24	0.2	3	0.0	0	0.0
mechanism														
Endocrine, nutritional and metabolic diseases	1,914	10.4	1,574	8.5	901	4.9	318	1.7	88	0.5	15	0.1	1	0.0
Mental and behavioural disorders	1,712	7.7	1,937	8.7	1,569	7.1	890	4.0	366	1.7	73	0.3	7	0.0
Diseases of the nervous system	2,452	13.2	2,239	12.1	1,472	8.0	608	3.3	153	0.8	24	0.1	3	0.0
Diseases of the eye and adnexa	1,230	7.3	952	5.6	582	3.5	230	1.4	56	0.3	4	0.0	1	0.0
Diseases of the ear and mastoid process	202	5.2	158	4.1	95	2.5	40	1.0	12	0.3	1	0.0	0	0.0
Diseases of the circulatory system	8,427	13.3	8,130	12.8	5,302	8.4	2,401	3.8	699	1.1	104	0.2	14	0.0
Diseases of the respiratory system	3,849	7.9	5,036	10.4	4,670	9.6	2,914	6.0	1,099	2.3	231	0.5	31	0.1
Diseases of the digestive system	4,543	7.4	3,942	6.5	2,202	3.6	920	1.5	284	0.5	46	0.1	5	0.0
Diseases of the skin and subcutaneous tissue	567	6.5	447	5.1	312	3.6	141	1.6	48	0.6	13	0.2	3	0.0
Diseases of the musculoskeletal system and connective tissue	3,971	8.3	3,294	6.9	1,846	3.9	669	1.4	159	0.3	22	0.0	2	0.0
Diseases of the genitourinary system	4,713	13.8	4,100	12.0	2,761	8.1	1,254	3.7	311	0.9	75	0.2	3	0.0
Pregnancy, childbirth and the puerperium	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Certain conditions originating in the perinatal period	1	0.1	1	0.0	0	0.0	0	0.0	0	0.0	-	-	-	-
Congenital malformations, deformations and chromosomal abnormalities	25	1.4	13	0.8	6	0.3	3	0.1	0	0.0	0	0.0	5	0.3
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	827	8.4	727	7.4	587	6.0	292	3.0	100	1.0	22	0.2	2	0.0
Injury, poisoning and certain other consequences of external causes	2,524	5.3	2,376	5.0	1,779	3.7	907	1.9	334	0.7	67	0.1	8	0.0
Factors influencing health status and contact with health services	568	6.8	425	5.1	263	3.2	105	1.3	26	0.3	3	0.0	0	0.0
Not elsewhere classified	3,155	7.4	2,348	5.5	1,210	2.8	420	1.0	104	0.2	15	0.0	3	0.0
Total	48,015	9.1	44,163	8.3	29,633	5.6	13,891	2.6	4,418	0.8	797	0.2	97	0.0

Table 17 Age composition by Disease Gender (Women: summary version)

	0-14		15-44	Į	45-6	1	65 or ab	ove	(duplicati 75 or ab		Total	!
Classification of Diseases and Related Health Problems	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share								
	won)	(%)	won)	(%)	won)	(%)	won)	(%)	won)	(%)	won)	(%)
Certain infectious and parasitic diseases	1,419	8.5	3,957	23.8	4,199	25.2	7,079	42.5	5,149	30.9	16,653	100
Neoplasms	1,476	2.9	9,971	19.9	20,613	41.1	18,122	36.1	9,233	18.4	50,182	100
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	438	12.3	1,294	36.5	1,005	28.3	811	22.9	520	14.7	3,546	100
Endocrine, nutritional and metabolic diseases	1,421	6.6	2,250	10.5	7,257	33.8	10,572	49.2	5,602	26.1	21,500	100
Mental and behavioural disorders	242	0.9	4,397	15.6	6,030	21.4	17,490	62.1	13,919	49.4	28,159	100
Diseases of the nervous system	658	3.0	2,381	10.9	5,170	23.7	13,616	62.4	8,378	38.4	21,825	100
Diseases of the eye and adnexa	3,732	18.2	4,500	22.0	5,732	28.0	6,508	31.8	2,979	14.6	20,471	100
Diseases of the ear and mastoid process	966	20.2	1,144	23.9	1,430	29.9	1,236	25.9	623	13.0	4,776	100
Diseases of the circulatory system	651	0.9	3,654	5.3	16,506	23.8	48,499	70.0	31,720	45.8	69,310	100
Diseases of the respiratory system	10,331	21.1	9,999	20.4	8,867	18.1	19,711	40.3	14,779	30.2	48,908	100
Diseases of the digestive system	3,774	5.7	19,549	29.7	21,879	33.2	20,655	31.4	12,035	18.3	65,857	100
Diseases of the skin and subcutaneous tissue	926	9.9	3,405	36.5	2,369	25.4	2,624	28.1	1,666	17.9	9,324	100
Diseases of the musculoskeletal system and connective tissue	2,378	2.8	12,549	14.9	31,256	37.2	37,769	45.0	17,858	21.3	83,952	100
Diseases of the genitourinary system	603	1.6	8,786	22.6	11,625	29.9	17,823	45.9	10,962	28.2	38,837	100
Pregnancy, childbirth and the puerperium	5	0.0	10,290	99.3	60	0.6	4	0.0	1	0.0	10,358	100
Certain conditions originating in the perinatal period	1,421	95.1	38	2.6	24	1.6	11	0.7	7	0.5	1,494	100
Congenital malformations, deformations and chromosomal abnormalities	841	50.9	416	25.2	271	16.4	123	7.5	61	3.7	1,651	100
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1,241	9.8	3,051	24.1	3,514	27.8	4,841	38.3	3,091	24.4	12,648	100
Injury, poisoning and certain other consequences of external causes	2,593	5.1	10,496	20.6	14,494	28.4	23,437	45.9	16,636	32.6	51,020	100
Factors influencing health status and contact with health services	1,205	11.5	4,514	43.1	2,395	22.9	2,349	22.4	1,215	11.6	10,462	100
Not elsewhere classified	2,589	5.1	13,860	27.2	19,622	38.6	14,815	29.1	6,295	12.4	50,887	100
Total	38,909	6.3	130,499	21.0	184,318	29.6	268,095	43.1	162,731	26.2	621,822	100

⁴² Comparative Analysis on Health Accounts by Disease, Age and Gender

Table 18 Age composition by Disease-Gender (Women: detailed version)

	0-	-4	5-	-9	10-	-14	15-	-19	20-	·24	25-	-29	30-	-34
Classification of Diseases and Related Health Problems	Current Health Expenditur	Share	Current Health Expenditur	Share	Current Health Expenditur	Share	Current Health Expenditur	Share	Current Health Expenditur e	Share	Current Health Expenditur	Share	Current Health Expenditur	Share
	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)						
Certain infectious and parasitic diseases	643	3.9	457	2.7	319	1.9	410	2.5	520	3.1	597	3.6	752	4.5
Neoplasms	222	0.4	731	1.5	522	1.0	541	1.1	592	1.2	824	1.6	1,510	3.0
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	73	2.1	212	6.0	153	4.3	156	4.4	171	4.8	155	4.4	214	6.0
Endocrine, nutritional and metabolic diseases	62	0.3	684	3.2	676	3.1	185	0.9	200	0.9	256	1.2	425	2.0
Mental and behavioural disorders	18	0.1	73	0.3	150	0.5	346	1.2	478	1.7	589	2.1	804	2.9
Diseases of the nervous system	189	0.9	254	1.2	215	1.0	246	1.1	277	1.3	329	1.5	417	1.9
Diseases of the eye and adnexa	706	3.4	2,011	9.8	1,015	5.0	853	4.2	667	3.3	654	3.2	875	4.3
Diseases of the ear and mastoid process	598	12.5	253	5.3	115	2.4	216	4.5	213	4.5	121	2.5	163	3.4
Diseases of the circulatory system	94	0.1	317	0.5	241	0.3	237	0.3	314	0.5	378	0.5	580	0.8
Diseases of the respiratory system	5,282	10.8	3,518	7.2	1,530	3.1	1,336	2.7	1,191	2.4	1,303	2.7	1,893	3.9
Diseases of the digestive system	591	0.9	2,053	3.1	1,130	1.7	1,850	2.8	2,868	4.4	3,088	4.7	3,533	5.4
Diseases of the skin and subcutaneous tissue	312	3.3	335	3.6	279	3.0	421	4.5	581	6.2	596	6.4	567	6.1
Diseases of the musculoskeletal system and connective tissue	265	0.3	1,196	1.4	917	1.1	1,023	1.2	1,081	1.3	1,457	1.7	2,124	2.5
Diseases of the genitourinary system	148	0.4	269	0.7	185	0.5	340	0.9	830	2.1	1,232	3.2	1,868	4.8
Pregnancy, childbirth and the puerperium	0	0.0	0	0.0	5	0.0	36	0.3	428	4.1	1,850	17.9	4,763	46.0
Certain conditions originating in the perinatal period	1,367	91.4	39	2.6	16	1.1	4	0.3	3	0.2	5	0.3	7	0.5
Congenital malformations, deformations and chromosomal abnormalities	551	33.4	149	9.0	141	8.5	93	5.6	59	3.6	56	3.4	68	4.1
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	454	3.6	469	3.7	318	2.5	369	2.9	340	2.7	425	3.4	554	4.4
Injury, poisoning and certain other consequences of external causes	500	1.0	1,091	2.1	1,002	2.0	1,187	2.3	1,297	2.5	1,515	3.0	1,793	3.5
Factors influencing health status and contact with health services	668	6.4	289	2.8	247	2.4	185	1.8	243	2.3	774	7.4	1,692	16.2
Not elsewhere classified	871	1.7	746	1.5	973	1.9	1,735	3.4	1,754	3.4	2,021	4.0	2,378	4.7
Total	13,614	2.2	15,144	2.4	10,151	1.6	11,769	1.9	14,107	2.3	18,224	2.9	26,979	4.3

Table 18 Age composition by Disease-Gender (Women: detailed version, continued)

	35-	-39	40-	-44	45-	-49	50-	-54	55-	-59	60-	-64	65-	-69
Classification of Diseases and Related Health Problems	Current Health Expenditur	Share												
	(0.1 billion won)	(%)												
Certain infectious and parasitic diseases	799	4.8	877	5.3	970	5.8	1,124	6.8	1,160	7.0	944	5.7	866	5.2
Neoplasms	2,440	4.9	4,064	8.1	4,943	9.9	5,578	11.1	5,614	11.2	4,478	8.9	4,411	8.8
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	297	8.4	301	8.5	320	9.0	265	7.5	214	6.0	206	5.8	146	4.1
Endocrine, nutritional and metabolic diseases	504	2.3	680	3.2	1.006	4.7	1.603	7.5	2,312	10.8	2,335	10.9	2,362	11.0
Mental and behavioural disorders	969	3.4	1.211	4.3	1.428	5.1	1.498	5.3	1.663	5.9	1.441	5.1	1.433	5.1
Diseases of the nervous system	469	2.1	642	2.9	853	3.9	1.144	5.2	1.550	7.1	1.622	7.4	2.136	9.8
Diseases of the eye and adnexa	595	2.9	856	4.2	904	4.4	2,074	10.1	1,333	6.5	1,420	6.9	1,858	9.1
Diseases of the ear and mastoid process	196	4.1	235	4.9	296	6.2	380	8.0	407	8.5	347	7.3	311	6.5
Diseases of the circulatory system	842	1.2	1,304	1.9	2,118	3.1	3,609	5.2	5,036	7.3	5,743	8.3	7,052	10.2
Diseases of the respiratory system	2,204	4.5	2,071	4.2	1,982	4.1	2,207	4.5	2,498	5.1	2,180	4.5	2,148	4.4
Diseases of the digestive system	3,871	5.9	4,341	6.6	4,855	7.4	5,813	8.8	6,301	9.6	4,910	7.5	3,871	5.9
Diseases of the skin and subcutaneous tissue	588	6.3	653	7.0	620	6.7	626	6.7	628	6.7	496	5.3	453	4.9
Diseases of the musculoskeletal system and connective tissue	2,942	3.5	3,922	4.7	5,236	6.2	7,730	9.2	9,451	11.3	8,839	10.5	9,638	11.5
Diseases of the genitourinary system	2,099	5.4	2,418	6.2	2,812	7.2	3,010	7.7	3,081	7.9	2,722	7.0	3,000	7.7
Pregnancy, childbirth and the puerperium	2,722	26.3	490	4.7	42	0.4	8	0.1	6	0.1	4	0.0	2	0.0
Certain conditions originating in the perinatal period	10	0.7	9	0.6	7	0.5	7	0.5	6	0.4	4	0.3	2	0.2
Congenital malformations, deformations and chromosomal abnormalities	71	4.3	69	4.2	71	4.3	70	4.2	74	4.5	55	3.3	32	1.9
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	643	5.1	721	5.7	764	6.0	909	7.2	993	7.9	849	6.7	799	6.3
Injury, poisoning and certain other consequences of external causes	2,164	4.2	2,540	5.0	3,030	5.9	3,865	7.6	4,403	8.6	3,196	6.3	3,086	6.0
Factors influencing health status and contact with health services	1,103	10.5	517	4.9	536	5.1	570	5.4	714	6.8	574	5.5	543	5.2
Not elsewhere classified	2,309	4.5	3,663	7.2	3,652	7.2	5,207	10.2	5,588	11.0	5,175	10.2	4,401	8.6
Total	27,837	4.5	31,584	5.1	36,447	5.9	47,298	7.6	53,033	8.5	47,540	7.6	48,549	7.8

Table 18 Age composition by Disease Gender (Women: detailed version, continued)

	70-	-74	75-	-79	80-	-84	85-	-89	90-	-94	95-	-99	100 or	above
Classification of Diseases and Related Health Problems	Current Health Expenditur	Share	Current Health Expenditur	Share	Current Health Expenditur	Share	Current Health Expenditur	Share	Current Health Expenditur e	Share	Current Health Expenditur	Share	Current Health Expenditur	Share
	e (0.1 billion won)	(%)	e (0.1 billion won)	(%)	e (0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)
Certain infectious and parasitic diseases	1,064	6.4	1,571	9.4	1,699	10.2	1,184	7.1	556	3.3	119	0.7	20	0.1
Neoplasms	4,478	8.9	4,239	8.4	2,922	5.8	1,520	3.0	460	0.9	83	0.2	10	0.0
Diseases of the blood and blood-forming organs														
and certain disorders involving the immune	144	4.1	173	4.9	160	4.5	122	3.5	51	1.4	12	0.3	2	0.0
mechanism														
Endocrine, nutritional and metabolic diseases	2,607	12.1	2,627	12.2	1,783	8.3	894	4.2	247	1.1	44	0.2	7	0.0
Mental and behavioural disorders	2,138	7.6	3,239	11.5	4,350	15.4	3,888	13.8	1,912	6.8	460	1.6	70	0.2
Diseases of the nervous system	3,102	14.2	3,646	16.7	2,942	13.5	1,345	6.2	385	1.8	53	0.2	8	0.0
Diseases of the eye and adnexa	1,671	8.2	1,539	7.5	923	4.5	405	2.0	101	0.5	10	0.0	2	0.0
Diseases of the ear and mastoid process	303	6.3	286	6.0	205	4.3	99	2.1	28	0.6	5	0.1	1	0.0
Diseases of the circulatory system	9,726	14.0	12,254	17.7	10,484	15.1	6,253	9.0	2,219	3.2	436	0.6	74	0.1
Diseases of the respiratory system	2,785	5.7	3,934	8.0	4,607	9.4	3,761	7.7	1,893	3.9	501	1.0	84	0.2
Diseases of the digestive system	4,750	7.2	5,272	8.0	3,786	5.7	2,073	3.1	737	1.1	148	0.2	19	0.0
Diseases of the skin and subcutaneous tissue	505	5.4	627	6.7	522	5.6	340	3.6	138	1.5	33	0.4	7	0.1
Diseases of the musculoskeletal system and connective tissue	10,273	12.2	9,307	11.1	5,754	6.9	2,182	2.6	522	0.6	79	0.1	14	0.0
Diseases of the genitourinary system	3,861	9.9	4,309	11.1	3,615	9.3	2,196	5.7	682	1.8	136	0.4	22	0.1
Pregnancy, childbirth and the puerperium	1	0.0	1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Certain conditions originating in the perinatal period	1	0.1	2	0.1	3	0.2	2	0.1	0	0.0	0	0.0	0	0.0
Congenital malformations, deformations and chromosomal abnormalities	30	1.8	28	1.7	13	0.8	6	0.3	2	0.1	1	0.1	11	0.6
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	951	7.5	1,119	8.8	1,002	7.9	652	5.2	250	2.0	59	0.5	9	0.1
Injury, poisoning and certain other consequences of external causes	3,715	7.3	5,165	10.1	5,524	10.8	3,872	7.6	1,655	3.2	364	0.7	55	0.1
Factors influencing health status and contact with health services	590	5.6	542	5.2	381	3.6	221	2.1	55	0.5	15	0.1	2	0.0
Not elsewhere classified	4,120	8.1	3,189	6.3	1,994	3.9	841	1.7	228	0.4	37	0.1	6	0.0
Total	56,815	9.1	63,068	10.1	52,669	8.5	31,856	5.1	12,122	1.9	2,595	0.4	421	0.1

(b) Financing Composition by Disease \cdot Gender

- O Majority of diseases have similar gender composition, but 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism' and 'Factors influencing health status and contact with health services' have significantly different composition of men and women.
- O In the case of 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism', men have 'Household out-of-pocket payment'(HF.3) proportion at 53.4% which is significantly higher than that of women (17.4%). In contrast, women have 'Voluntary health care payment schemes'(HF.2) proportion at 48.0% which is significantly higher than that of men (12.4%).
- O In the case of 'Factors influencing health status and contact with health services', men have 'Governmental financing schemes and compulsory contributory health financing schemes'(HF.1) proportion at 63.7% which is higher than that of women (51.3%). In contrast, women have 'Household out-of-pocket payment'(HF.3) proportion at 48.0% which is higher than

Table 19 Financing schemes by Disease Gender (Men)

	Governmental compulsory health finance	contributory	Government	tal schemes	Complusory health insura	contributory nce schemes	Voluntary payment	health care schemes		it-of-pocket nent	Tot	al
Classification of Diseases and Related Health Problems	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share	Current Health Expenditure (0.1 billion	Share
Certain infectious and parasitic diseases	won) 10,426	64.3	won) 1,801	11.1	won) 7,945	49.0	won) 929	5.7	won) 4,861	30.0	won) 16,216	100
			·									
Neoplasms Diseases of the blood and blood-forming organs	31,515	68.5	5,141	11.2	27,593	60.0	3,280	7.1	11,217	24.4	46,012	100
and certain disorders involving the immune mechanism	4,265	34.1	964	7.7	3,398	27.2	1,555	12.4	6,672	53.4	12,492	100
Endocrine, nutritional and metabolic diseases	11,338	61.4	1,741	9.4	9,219	49.9	615	3.3	6,510	35.3	18,464	100
Mental and behavioural disorders	16,302	73.6	7,260	32.8	9,277	41.9	58	0.3	5,799	26.2	22,159	100
Diseases of the nervous system	12,782	69.0	3,755	20.3	12,987	70.1	795	4.3	4,939	26.7	18,516	100
Diseases of the eye and adnexa	6,225	36.9	900	5.3	5,437	32.2	925	5.5	9,710	57.6	16,861	100
Diseases of the ear and mastoid process	2,102	54.5	274	7.1	1,835	47.6	342	8.9	1,412	36.6	3,855	100
Diseases of the circulatory system	38,809	61.2	7,484	11.8	35,899	56.6	3,582	5.6	21,028	33.2	63,419	100
Diseases of the respiratory system	31,164	64.3	4,281	8.8	23,131	47.7	2,601	5.4	14,726	30.4	48,491	100
Diseases of the digestive system	26,736	43.8	4,304	7.1	22,057	36.1	2,528	4.1	31,777	52.1	61,041	100
Diseases of the skin and subcutaneous tissue	5,034	57.5	691	7.9	4,209	48.1	462	5.3	3,252	37.2	8,748	100
Diseases of the musculoskeletal system and connective tissue	23,106	48.3	2,995	6.3	18,388	38.4	9,524	19.9	15,250	31.9	47,879	100
Diseases of the genitourinary system	22,492	65.7	4,839	14.1	16,380	47.8	1,962	5.7	9,804	28.6	34,258	100
Pregnancy, childbirth and the puerperium												
Certain conditions originating in the perinatal period	1,350	77.1	183	10.4	1,560	89.1	135	7.7	266	15.2	1,751	100
Congenital malformations, deformations and chromosomal abnormalities	1,051	59.5	202	11.5	1,076	60.9	237	13.4	479	27.1	1,767	100
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	4,699	47.9	1,018	10.4	3,343	34.1	1,502	15.3	3,611	36.8	9,812	100
Injury, poisoning and certain other consequences of external causes	30,463	64.2	3,587	7.6	25,611	53.9	4,795	10.1	12,229	25.8	47,487	100
Factors influencing health status and contact with health services	5,312	63.7	783	9.4	4,315	51.7	89	1.1	2,942	35.3	8,343	100
Not elsewhere classified	18,978	44.7	3,496	8.2	15,274	35.9	324	0.8	23,188	54.6	42,490	100
Total	304,150	57.4	55,699	10.5	248,934	47.0	36,240	6.8	189,670	35.8	530,060	100

Table 20 Financing schemes by Disease Gender (Women)

	Governmental	schemes and										
	compulsory	contributory	Government	al schemes	Complusory	-	-	health care		it-of-pocket	Tot	tal
	health financ	ing schemes			health insura	nce schemes	payment	schemes	payı	nent		
Classification of Diseases and Related Health	Current		Current		Current		Current		Current		Current	
Problems	Health	Share	Health	Share	Health	Share	Health	Share	Health	Share	Health	Share
	Expenditure		Expenditure		Expenditure		Expenditure		Expenditure		Expenditure	
	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)	(0.1 billion won)	(%)
Certain infectious and parasitic diseases	won) 10.335	62.1	1.806	10.8	7,820	47.0	1.000	6.0	won) 5,318	31.9	16.653	100
Neoplasms	31,972	63.7	5,043	10.0	26,967	53.7	5.037	10.0	13.173	26.3	50.182	100
Diseases of the blood and blood—forming organs	31,312	00.7	5,045	10.0	20,501	30.7	3,037	10.0	13,173	20.3	30,102	100
and certain disorders involving the immune	1.229	34.7	268	7.6	963	27.1	1,701	48.0	616	17.4	3.546	100
mechanism	1,229	34.7	200	7.0	903	21.1	1,701	40.0	010	17.4	3,340	100
Endocrine, nutritional and metabolic diseases	12.767	59.4	2,123	9.9	10.358	48.2	691	3.2	8.042	37.4	21.500	100
Mental and behavioural disorders	19,455	69.1	7,310	26.0	15,896	56.5	76	0.3	8,628	30.6	28,159	100
Diseases of the nervous system	14,708	67.4	3,862	17.7	14,642	67.1	882	4.0	6,236	28.6	21.825	100
Diseases of the eye and adnexa	8,535	41.7	1,344	6.6	7,738	37.8	1,014	5.0	10.922	53.4	20,471	100
Diseases of the ear and mastoid process	2.672	55.9	398	8.3	2.318	48.5	377	7.9	1.727	36.2	4.776	100
Diseases of the circulatory system	41.526	59.9	8,604	12.4	36,484	52.6	4.452	6.4	23,332	33.7	69.310	100
Diseases of the respiratory system	30,578	62.5	4,630	9.5	23,446	47.9	2.905	5.9	15,425	31.5	48,908	100
Diseases of the digestive system	27,052	41.1	4,180	6.3	21,674	32.9	2,768	4.2	36,038	54.7	65,857	100
Diseases of the skin and subcutaneous tissue	5,283	56.7	795	8.5	4,409	47.3	525	5.6	3,516	37.7	9,324	100
Diseases of the musculoskeletal system and	10.100						40.000	400	20.21			
connective tissue	43,468	51.8	6,038	7.2	35,284	42.0	10,839	12.9	29,645	35.3	83,952	100
Diseases of the genitourinary system	24,124	62.1	4,786	12.3	17,166	44.2	2,006	5.2	12,707	32.7	38,837	100
Pregnancy, childbirth and the puerperium	6,925	66.9	(126)	(1.2)	4,267	41.2	71	0.7	3,362	32.5	10,358	100
Certain conditions originating in the perinatal	1,113	74.5	160	10.7	1,277	85.4	148	9.9	234	15.6	1.494	100
period	1,110	. 1.0		20.1	1,211	00.1	110	0.0	201	10.0	1,101	
Congenital malformations, deformations and	943	57.1	184	11.2	932	56.4	260	15.7	448	27.1	1,651	100
chromosomal abnormalities												
Symptoms, signs and abnormal clinical and	5,960	47.1	1,328	10.5	4,305	34.0	1,669	13.2	5,019	39.7	12,648	100
laboratory findings, not elsewhere classified Injury, poisoning and certain other consequences												
	31,193	61.1	4,863	9.5	25,988	50.9	5,242	10.3	14,585	28.6	51,020	100
of external causes Factors influencing health status and contact with												
health services	5,363	51.3	719	6.9	4,357	41.6	83	0.8	5,017	48.0	10,462	100
Not elsewhere classified	20,272	39.8	4,087	8.0	16,295	32.0	465	0.9	30,151	59.2	50,887	100
Total	345,471	55.6	62,400	10.0	282,587	45.4	42,209	6.8	234,141	37.7	621,822	100

(c) Function Composition by Disease · Gender

- O For majority of diseases the expenditure proportion by function between men and women have similar composition, but a few diseases show gender differences.
- O In the case of 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism', men have 'Medical goods non-specified by function'(HC.5) proportion highest (63.0%), while women have 'Curative care' (HC.1) proportion highest (64.0%).
- O In the case of 'Mental and behavioural disorder', men have 'Curative care'(HC.1) proportion highest (52.4%), while women have 'Long-term care (Health)'(HC.3) proportion highest (40.4%).
- O In the case of 'Injury, poisoning and certain other consequences of external causes', men have 'Curative care'(HC.1) proportion at 70.4% which is quite higher than that of women (59.5%). In contrast, women have 'Long-term care (Health)'(HC.3) proportion at 25.3% which is higher than that of men (8.5%).
- $\ensuremath{\circ}$ In the case of 'Factors influencing health status and contact with health services', women have 'Curative care'(HC.1) proportion at 72.4% which is higher than that of men (59.4%). In contrast, men have 'Medical goods non-specified by function'(HC.5) proportion at 23.5% which is higher than that of women (12.9%).

Table 21 Function composition by Disease Gender (Men)

	Curative c	are(HC.1)	Rehabilitative	e care(HC.2)	Long-te (Health	erm care)(HC.3)	Ancillary (non-spe	-	(non-spe	l goods ecified by)(HC.5)	Preventive	care(HC.6)	Governance system and adminis (HC	f financing stration
Classification of Diseases and Related Health Problems	Current Health Expenditur	Share	Current Health Expenditur	Share	Current Health Expenditur	Share	Current Health Expenditur	Share	Current Health Expenditur	Share	Current Health Expenditur	Share	Current Health Expenditur	Share
	e (0.		e (0.		e (0.		e (0.		e (0.		e (0.		e (0.	
	1 billion	(%)	1 billion	(%)	1 billion	(%)	1 billion	(%)	1 billion	(%)	1 billion	(%)	1 billion	(%)
	won)	(70)	won)	(10)	won)	(70)	won)	(70)	won)	(70)	won)	(10)	won)	(10)
Certain infectious and parasitic diseases	7,200	44.4	21	0.1	2,603	16.0	177	1.1	5,309	32.7	419	2.6	488	3.0
Neoplasms	26,557	57.7	119	0.3	5,999	13.0	165	0.4	9,272	20.2	1,463	3.2	2,438	5.3
Diseases of the blood and blood-forming organs														
and certain disorders involving the immune	3,505	28.1	365	2.9	167	1.3	4	0.0	7,866	63.0	245	2.0	340	2.7
mechanism														
Endocrine, nutritional and metabolic diseases	5,657	30.6	35	0.2	1,445	7.8	414	2.2	10,466	56.7	131	0.7	315	1.7
Mental and behavioural disorders	11,602	52.4	41	0.2	4,934	22.3	17	0.1	4,144	18.7	732	3.3	689	3.1
Diseases of the nervous system	4,425	23.9	2,172	11.7	8,356	45.1	100	0.5	2,400	13.0	443	2.4	620	3.3
Diseases of the eye and adnexa	6,243	37.0	1	0.0	360	2.1	13	0.1	9,607	57.0	240	1.4	397	2.4
Diseases of the ear and mastoid process	2,452	63.6	2	0.1	48	1.2	54	1.4	1,070	27.7	97	2.5	133	3.4
Diseases of the circulatory system	20,933	33.0	1,652	2.6	13,022	20.5	822	1.3	24,081	38.0	1,084	1.7	1,825	2.9
Diseases of the respiratory system	22,807	47.0	54	0.1	12,623	26.0	1,569	3.2	9,377	19.3	896	1.8	1,166	2.4
Diseases of the digestive system	48,619	79.6	16	0.0	2,678	4.4	390	0.6	6,376	10.4	1,364	2.2	1,599	2.6
Diseases of the skin and subcutaneous tissue	5,199	59.4	11	0.1	674	7.7	196	2.2	2,272	26.0	181	2.1	214	2.5
Diseases of the musculoskeletal system and										440	4.00			
connective tissue	33,547	70.1	938	2.0	1,500	3.1	389	0.8	8,063	16.8	1,087	2.3	2,356	4.9
Diseases of the genitourinary system	15,594	45.5	24	0.1	7,095	20.7	122	0.4	9,821	28.7	603	1.8	999	2.9
Pregnancy, childbirth and the puerperium	-	-	-	_	-	-	-	-	-	-	-	-	-	-
Certain conditions originating in the perinatal	1,365	78.0	69	3.9	2	0.1	0	0.0	83	4.8	88	5.1	143	8.1
period	1,505	70.0	03	0.5	-	0.1	0	0.0	00	4.0	00	5.1	140	0.1
Congenital malformations, deformations and	1,240	70.2	85	4.8	23	1.3	2	0.1	194	11.0	107	6.1	114	6.5
chromosomal abnormalities	-,						_							
Symptoms, signs and abnormal clinical and	5,852	59.6	330	3.4	1,174	12.0	346	3.5	1,495	15.2	216	2.2	400	4.1
laboratory findings, not elsewhere classified														
Injury, poisoning and certain other consequences	33,414	70.4	728	1.5	4,055	8.5	844	1.8	3,221	6.8	1,429	3.0	3,795	8.0
of external causes Factors influencing health status and contact with														
health services	4,960	59.4	132	1.6	762	9.1	6	0.1	1,957	23.5	236	2.8	290	3.5
Not elsewhere classified	15,718	37.0	85	0.2	36	0.1	8	0.0	17,212	40.5	9,116	21.5	314	0.7
Total	276,889	52.2	6,881	1.3	67,557	12.7	5,636	1.1	134,287	25.3	20,176	3.8	18,634	3.5

Table 22 Function composition by Disease Gender (Women)

	Curative c	are(HC.1)	Rehabilitative	care(HC.2)	Long-te (Health		Ancillary (non-spe	ecified by	Medical (non-spe function	cified by	Preventive	care(HC.6)	Governance system and adminis (HC	f financing stration
Classification of Diseases and Related Health Problems	Current Health Expenditur e	Share	Current Health Expenditur	Share	Current Health Expenditur e	Share	Current Health Expenditur e	Share	Current Health Expenditur e	Share	Current Health Expenditur e	Share	Current Health Expenditur	Share
	(0. 1 billion won)	(%)	(0. 1 billion won)	(%)	(0. 1 billion won)	(%)	(0. 1 billion won)	(%)	(0. 1 billion won)	(%)	(0. 1 billion won)	(%)	(0. 1 billion won)	(%)
Certain infectious and parasitic diseases	7,288	43.8	21	0.1	4,469	26.8	226	1.4	3,832	23.0	357	2.1	460	2.8
Neoplasms	27,765	55.3	189	0.4	7,642	15.2	158	0.3	10,213	20.4	1,642	3.3	2,572	5.1
Diseases of the blood and blood-forming organs														
and certain disorders involving the immune mechanism	2,270	64.0	16	0.5	409	11.5	33	0.9	498	14.1	59	1.7	262	7.4
Endocrine, nutritional and metabolic diseases	7,098	33.0	22	0.1	2,693	12.5	632	2.9	10,572	49.2	111	0.5	371	1.7
Mental and behavioural disorders	8,930	31.7	41	0.1	11,369	40.4	53	0.2	6,079	21.6	697	2.5	990	3.5
Diseases of the nervous system	5,504	25.2	1,501	6.9	10,482	48.0	181	0.8	3,032	13.9	429	2.0	697	3.2
Diseases of the eye and adnexa	7,931	38.7	2	0.0	840	4.1	23	0.1	10,945	53.5	284	1.4	447	2.2
Diseases of the ear and mastoid process	3,068	64.3	4	0.1	169	3.5	59	1.2	1,193	25.0	120	2.5	163	3.4
Diseases of the circulatory system	19,854	28.6	1,350	1.9	21,090	30.4	775	1.1	23,593	34.0	888	1.3	1,760	2.5
Diseases of the respiratory system	22,804	46.6	41	0.1	12,365	25.3	1,798	3.7	10,011	20.5	828	1.7	1,063	2.2
Diseases of the digestive system	51,656	78.4	19	0.0	5,228	7.9	407	0.6	5,912	9.0	1,169	1.8	1,466	2.2
Diseases of the skin and subcutaneous tissue	5,465	58.6	9	0.1	1,181	12.7	247	2.6	2,034	21.8	174	1.9	214	2.3
Diseases of the musculoskeletal system and connective tissue	54,214	64.6	1,551	1.8	5,525	6.6	622	0.7	17,231	20.5	1,523	1.8	3,286	3.9
Diseases of the genitourinary system	18,926	48.7	21	0.1	10,901	28.1	504	1.3	6,617	17.0	754	1.9	1,115	2.9
Pregnancy, childbirth and the puerperium	8,895	85.9	0	0.0	0	0.0	0	0.0	255	2.5	658	6.4	548	5.3
Certain conditions originating in the perinatal period	1,161	77.7	57	3.8	7	0.5	0	0.0	66	4.4	82	5.5	122	8.1
Congenital malformations, deformations and chromosomal abnormalities	1,132	68.6	60	3.6	28	1.7	2	0.1	226	13.7	98	5.9	105	6.4
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	7,477	59.1	286	2.3	1,958	15.5	441	3.5	1,782	14.1	248	2.0	456	3.6
Injury, poisoning and certain other consequences of external causes	30,339	59.5	514	1.0	12,885	25.3	595	1.2	2,531	5.0	1,032	2.0	3,123	6.1
Factors influencing health status and contact with health services	7,573	72.4	103	1.0	914	8.7	9	0.1	1,355	12.9	248	2.4	261	2.5
Not elsewhere classified	20,542	40.4	65	0.1	83	0.2	3	0.0	17,953	35.3	12,062	23.7	179	0.4
Total	319,893	51.4	5,873	0.9	110,237	17.7	6,768	1.1	135,929	21.9	23,462	3.8	19,658	3.2

(d) Provider Composition by Disease · Gender

- O For majority of diseases the expenditure proportions by provider between men and women have similar tendencies, but a few diseases have gender variance
- O In the case of 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism', men have 'Providers of ambulatory health care'(HP.3) proportion at 69.9% which is significantly higher than that of women (19.1%). In contrast, women have 'Hospitals'(HP.1) proportion at 65.3% which is significantly higher than that of men (24.4%).
- O In the case of 'Mental and behavioural disorders', men have 'Hospitals'(HP.1) proportion at 57.1% which is higher than that of women (38.2%). In contrast, women have 'Residential long-term care facilities'(HP.2) proportion at 22.0% which is higher than that of men (8.2%)
- O In the case of 'Diseases of the musculoskeletal system and connective tissue', men have 'Hospitals'(HP.1) proportion at 44.3% which is higher than that of women (38.3%). In contrast, women have 'Providers of ambulatory health care'(HP.3) proportion at 41.6% which is higher than that of men (36.7%).
- O In the case of 'Diseases of the genitourinary system', women have 'Hospitals'(HP.1) proportion at 51.5% which is higher than that of men (45.6%). In contrast, men have 'Retailers and other providers of medical goods'(HP.5) proportion at 14.3% which is higher than that of women (7.0%).
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Table 23 Provider composition by Disease Gender (Men)

Classification of Diseases and Related Health	HF Hosp			P.2 erm care facilities	HF Providers of ambu		HF Providers of an		HP. Retailers and oth medical	er providers of
Problems	Current Health Expenditure (0.	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure (0.	Share	Current Health Expenditure (0.	Share
	1 billion won)	(%)	1 billion won)	(%)	1 billion won)	(%)	1 billion won)	(%)	1 billion won)	(%)
Certain infectious and parasitic diseases	8,906	54.9	96	0.6	2,184	13.5	169	1.0	3,943	24.3
Neoplasms	32,859	71.4	604	1.3	3,115	6.8	112	0.2	5,271	11.5
Diseases of the blood and blood-forming organs										
and certain disorders involving the immune	3,044	24.4	7	0.1	8,729	69.9	3	0.0	133	1.1
mechanism										
Endocrine, nutritional and metabolic diseases	5,741	31.1	226	1.2	2,309	12.5	406	2.2	9,025	48.9
Mental and behavioural disorders	12,642	57.1	1,807	8.2	5,006	22.6	16	0.1	1,378	6.2
Diseases of the nervous system	11,732	63.4	1,594	8.6	2,088	11.3	91	0.5	1,984	10.7
Diseases of the eye and adnexa	3,508	20.8	5	0.0	3,907	23.2	12	0.1	8,828	52.4
Diseases of the ear and mastoid process	1,186	30.8	2	0.0	1,375	35.7	53	1.4	1,016	26.4
Diseases of the circulatory system	26,785	42.2	2,594	4.1	5,514	8.7	796	1.3	22,930	36.2
Diseases of the respiratory system	24,209	49.9	364	0.7	11,437	23.6	1,524	3.1	8,494	17.5
Diseases of the digestive system	18,164	29.8	71	0.1	34,463	56.5	348	0.6	5,016	8.2
Diseases of the skin and subcutaneous tissue	2,370	27.1	40	0.5	3,717	42.5	193	2.2	1,990	22.7
Diseases of the musculoskeletal system and connective tissue	21,221	44.3	217	0.5	17,588	36.7	316	0.7	4,871	10.2
Diseases of the genitourinary system	15.608	45.6	339	1.0	11.593	33.8	108	0.3	4.892	14,3
Pregnancy, childbirth and the puerperium	_	_	_	_		_	_	_	_	_
Certain conditions originating in the perinatal	1,423	81.3	1	0.0	84	4.8	_	_	8	0.4
period Congenital malformations, deformations and										
chromosomal abnormalities	1,254	71.0	6	0.3	138	7.8	0	0.0	139	7.9
Symptoms, signs and abnormal clinical and	5.832	59.4	67	0.7	1.825	18.6	314	3.2	1.112	11.3
laboratory findings, not elsewhere classified	-,				-,				-,	
Injury, poisoning and certain other consequences	26,218	55.2	328	0.7	12,674	26.7	776	1.6	2,390	5.0
of external causes										-
Factors influencing health status and contact with	5,338	64.0	12	0.1	1,717	20.6	5	0.1	689	8.3
health services	0.050	15.5	10	^^	15.050	07.4		0.0	17.171	40.4
Not elsewhere classified	6,650	15.7	18 8,396	0.0	15,878	37.4 27.4	5,250	0.0	17,171	40.4
Total	234,691	44.3	8,396	1.6	145,342	27.4	5,250	1.0	101,281	19.1

Table 23 Provider composition by Disease-Gender (Men, continued)

	HF Providers of p		HF Providers of hea admin. and	lth care system	HF Rest of		HF Rest of t		То	tal
Classification of Diseases and Related Health Problems	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share	Current Health Expenditure	Share
	(0. 1 billion won)	(%)	(0. 1 billion won)	(%)	(0. 1 billion won)	(%)	(0. 1 billion won)	(%)	(0. 1 billion won)	(%)
Certain infectious and parasitic diseases	263	1.6	558	3.4	74	0.5	22	0.1	16,216	100
Neoplasms	750	1.6	2,638	5.7	260	0.6	401	0.9	46,012	100
Diseases of the blood and blood-forming organs										
and certain disorders involving the immune mechanism	157	1.3	384	3.1	25	0.2	10	0.1	12,492	100
Endocrine, nutritional and metabolic diseases	184	1.0	340	1.8	223	1.2	10	0.1	18,464	100
Mental and behavioural disorders	434	2.0	809	3.7	61	0.3	6	0.0	22,159	100
Diseases of the nervous system	252	1.4	690	3.7	64	0.3	23	0.1	18,516	100
Diseases of the eye and adnexa	130	0.8	433	2.6	31	0.2	9	0.1	16,861	100
Diseases of the ear and mastoid process	58	1.5	149	3.9	10	0.3	6	0.2	3,855	100
Diseases of the circulatory system	1,261	2.0	2,010	3.2	1,323	2.1	206	0.3	63,419	100
Diseases of the respiratory system	651	1.3	1,321	2.7	425	0.9	66	0.1	48,491	100
Diseases of the digestive system	835	1.4	1,838	3.0	232	0.4	73	0.1	61,041	100
Diseases of the skin and subcutaneous tissue	120	1.4	246	2.8	68	0.8	4	0.0	8,748	100
Diseases of the musculoskeletal system and connective tissue	705	1.5	2,534	5.3	390	0.8	37	0.1	47,879	100
Diseases of the genitourinary system	370	1.1	1,088	3.2	223	0.7	37	0.1	34,258	100
Pregnancy, childbirth and the puerperium	1	-	-	-	-	-	-	-	_	_
Certain conditions originating in the perinatal period	43	2.5	155	8.8	4	0.2	34	1.9	1,751	100
Congenital malformations, deformations and	65	3.7	132	7.5	6	0.4	26	1.5	1,767	100
chromosomal abnormalities Symptoms, signs and abnormal clinical and	139	1.4	436	4.4	75	0.8	13	0.1	9.812	100
laboratory findings, not elsewhere classified	100		100				10	0.1	0,015	
Injury, poisoning and certain other consequences of external causes	883	1.9	4,036	8.5	126	0.3	56	0.1	47,487	100
Factors influencing health status and contact with health services	144	1.7	326	3.9	66	0.8	45	0.5	8,343	100
Not elsewhere classified	1,541	3.6	1,008	2.4	215	0.5	0	0.0	42,490	100
Total	8,983	1.7	21,129	4.0	3,901	0.7	1,087	0.2	530,060	100

Table 24 Provider composition by Disease Gender (Women)

	HF Hosp		HI Residential long-t	2.2 erm care facilities		2.3 Ilatory health care	HF Providers of an	2.4 cillary services	HF Retailers and ot medical	her providers of
Classification of Diseases and Related Health Problems	Current Health Expenditure (0.	Share	Current Health Expenditure (0.	Share	Current Health Expenditure (0.	Share	Current Health Expenditure (0.	Share	Current Health Expenditure (0.	Share
	1 billion won)	(%)	1 billion won)	(%)	1 billion won)	(%)	1 billion won)	(%)	1 billion won)	(%)
Certain infectious and parasitic diseases	9,132	54.8	147	0.9	2,995	18.0	219	1.3	3,338	20.0
Neoplasms	35,086	69.9	967	1.9	4,080	8.1	84	0.2	5,656	11.3
Diseases of the blood and blood-forming organs and certain disorders involving the immune	2,314	65.3	19	0.5	676	19.1	31	0.9	174	4.9
mechanism Endocrine, nutritional and metabolic diseases	6,938	32.3	516	2.4	3,443	16.0	612	2.8	9,140	42.5
Mental and behavioural disorders	10,748	38.2	6,181	22.0	7,365	26.2	51	0.2	2.264	8.0
Diseases of the nervous system	12,154	55.7	2.599	11.9	3.297	15.1	168	0.8	2,519	11.5
Diseases of the eye and adnexa	3.480	17.0	8	0.0	5.801	28.3	21	0.1	10.470	51.1
Diseases of the ear and mastoid process	1,569	32.8	7	0.1	1,740	36.4	57	1.2	1,128	23.6
Diseases of the circulatory system	29.100	42.0	4.634	6.7	6.982	10.1	740	1.1	22.375	32.3
Diseases of the respiratory system	21,351	43.7	420	0.9	13,945	28.5	1,751	3.6	9,029	18.5
Diseases of the digestive system	18,164	27.6	107	0.2	39,729	60.3	366	0.6	4,804	7.3
Diseases of the skin and subcutaneous tissue	2,484	26.6	98	1.1	4,229	45.4	243	2.6	1,810	19.4
Diseases of the musculoskeletal system and connective tissue	32,120	38.3	846	1.0	34,897	41.6	502	0.6	10,139	12.1
Diseases of the genitourinary system	19,993	51.5	481	1.2	13,334	34.3	456	1.2	2,703	7.0
Pregnancy, childbirth and the puerperium	4,240	40.9	0	0.0	4,716	45.5	0	0.0	213	2.1
Certain conditions originating in the perinatal period	1,198	80.2	2	0.1	79	5.3	-	_	8	0.5
Congenital malformations, deformations and chromosomal abnormalities	1,158	70.2	6	0.3	127	7.7	0	0.0	151	9.1
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	6,977	55.2	151	1.2	2,996	23.7	404	3.2	1,342	10.6
Injury, poisoning and certain other consequences of external causes	29,325	57.5	816	1.6	14,583	28.6	518	1.0	1,744	3.4
Factors influencing health status and contact with health services	5,709	54.6	21	0.2	3,556	34.0	7	0.1	623	6.0
Not elsewhere classified	7,562	14.9	35	0.1	22,525	44.3	3	0.0	17,879	35.1
Total	260,802	41.9	18,060	2.9	191,098	30.7	6,234	1.0	107,508	17.3

Table 24 Provider composition by Disease-Gender (Women, continued)

Classification of Diseases and Related Health Problems	HP.6 Providers of preventive care		HP.7 Providers of health care system admin. and financing		HP.8 Rest of economy		HP.9 Rest of the world		Total	
	Current Health Expenditure (0.	Share	Current Health Expenditure (0.	Share	Current Health Expenditure (0.	Share	Current Health Expenditure (0.	Share	Current Health Expenditure (0.	Share
	1 billion won)	(%)	1 billion won)	(%)	1 billion won)	(%)	1 billion won)	(%)	1 billion won)	(%)
Certain infectious and parasitic diseases	225	1.3	519	3.1	61	0.4	18	0.1	16,653	100
Neoplasms	885	1.8	2,814	5.6	287	0.6	321	0.6	50,182	100
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	36	1.0	271	7.7	17	0.5	7	0.2	3,546	100
Endocrine, nutritional and metabolic diseases	187	0.9	393	1.8	263	1.2	8	0.0	21,500	100
Mental and behavioural disorders	358	1.3	1,087	3.9	96	0.3	9	0.0	28,159	100
Diseases of the nervous system	223	1.0	757	3.5	87	0.4	20	0.1	21,825	100
Diseases of the eye and adnexa	156	0.8	490	2.4	36	0.2	9	0.0	20,471	100
Diseases of the ear and mastoid process	71	1.5	182	3.8	14	0.3	7	0.2	4,776	100
Diseases of the circulatory system	1,439	2.1	1,925	2.8	1,974	2.8	141	0.2	69,310	100
Diseases of the respiratory system	649	1.3	1,211	2.5	517	1.1	37	0.1	48,908	100
Diseases of the digestive system	717	1.1	1,671	2.5	246	0.4	54	0.1	65,857	100
Diseases of the skin and subcutaneous tissue	118	1.3	245	2.6	93	1.0	3	0.0	9,324	100
Diseases of the musculoskeletal system and connective tissue	1,020	1.2	3,523	4.2	849	1.0	57	0.1	83,952	100
Diseases of the genitourinary system	404	1.0	1,228	3.2	191	0.5	46	0.1	38,837	100
Pregnancy, childbirth and the puerperium	483	4.7	659	6.4	21	0.2	25	0.2	10,358	100
Certain conditions originating in the perinatal period	42	2.8	133	8.9	3	0.2	29	1.9	1,494	100
Congenital malformations, deformations and chromosomal abnormalities	60	3.7	122	7.4	6	0.4	21	1.3	1,651	100
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	160	1.3	497	3.9	109	0.9	11	0.1	12,648	100
Injury, poisoning and certain other consequences of external causes	601	1.2	3,282	6.4	114	0.2	37	0.1	51,020	100
Factors influencing health status and contact with health services	153	1.5	301	2.9	58	0.6	35	0.3	10,462	100
Not elsewhere classified	1,654	3.2	1,002	2.0	227	0.4	0	0.0	50,887	100
Total	9,641	1.6	22,314	3.6	5,270	0.8	894	0.1	621,822	100

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Chapter Ⅲ. Japanese Health Expenditure by Disease·Age·Gender

Chapter 3. Japanese Health Expenditure by Disease · Age · Gender

「National Medical Expenditure」 A. Introduction to Statistics

☐ Purpose of Statistics

O To provide statistical indicators essential for the Japanese health insurance and health economics as the baseline data to secure healthcare needed by the people.

☐ History of Statistics

- O National Total Medical Expenditure started to be published in 1954.
- O Estimation range has been gradually changed. Medical expenditures by age group and by disease category have been added since 1977 and those by gender since 2008, which are relevant to this study.
- Between 1954 to 1971 National Total Medical Expenditure was estimated.
- In 1962 estimation by treatment type and disease (tuberculosis/psychiatric disease/others) was published.
- In 1972 the term National Total Medical Expenditure is switched to 「National Medical Expenditure」 after excluding OTC drug expenditure and massage charge.
- In 1977 "general medical care expenditure" by age group and by disease category started to be added.
- In 1978 medical expenditure by financing was added.
- In 1987 medical expenditure by prefecture started to be estimated every 3 years.

- In 2000 and after, the part of the previous National Medical Expenditure which fell under the coverage of LTC insurance scheme as it started in April of 2000, has been removed from the new National Medical Expenditure . .
- In 2008 medical expenditure by gender was added.
- Since 2010, "general medical care expenditure" category in the estimation by treatment type is separately expressed into "medical care expenditure" and "care payment etc."
- Since 2015 medical expenditure by prefecture has been estimated every year.

☐ Scope of 「National Medical Expenditure」

- O National Medical Expenditure is the estimation of the total expenditure for disease treatment covered by public health insurance in the corresponding vear.
- National Medical Expenditure is the sum of the third-party payments as benefits of the "medical insurance" as well as the "medical care system for the elderly", and the cost-sharing on the part of patients.
- O It includes medical and dental care expenditure, pharmacy-dispensing expenditure, meals and life expense during hospitalization, charges for home-visit nurse.

O It does **not** include

- "Evaluation items" which are not subject to public health insurance [advanced medical treatment etc. (including high-tech care)], "Selective items" (such as special beds, metallic material of dentist etc.), and costs for assisted reproductive medical treatment of infertility treatment.
- O Since it includes mainly the disease-treating costs, it does **not** include;
- Firstly, normal pregnancy and childbirth costs, secondly, health check-up and vaccination etc. mainly for health maintenance and promotion, thirdly, artificial eyes and legs.
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□ 「National Medical Expenditure」 in 2015

- O National Medical Expenditure in 2015 was 42 trillion and 364.4 billion ven which is 1 trillion and 557.3 billion ven (3.8%) increase from previous year's 40 trillion and 807.1 billion ven.
- National Medical Expenditure per person was 333.3 thousand yen which was 12.2 thousand ven (3.8%) increase from previous year's 321.1 thousand ven.
- Share of National Medical Expenditure in GDP was 7.96% (previous vear: 7.88%), and share of National Income (NI) was 10.91% (previous year: 10.79%).

Table 25 Trends of National Medical Expenditure

Year	National Medical Expenditure	annual growth rate	Share of GDP	National Medical Expenditure per capita	annual growth rate	
	(0.1 billion yen)	(%)	(%)	(thousand yen)	(%)	
1990	206 074	4.5	4.56	166.7	4.1	
1995	269 577	4.5	5.22	214.7	4.1	
2000	301 418	- 1.8	5.70	237.5	- 2.0	
2005	331 289	3.2	6.30	259.3	3.1	
2010	374 202	3.9	7.50	292.2	3.5	
2011	385 850	3.1	7.81	301.9	3.3	
2012	392 117	1.6	7.93	307.5	1.9	
2013	400 610	2.2	7.90	314.7	2.3	
2014	408 071	1.9	7.88	321.1	2.0	
2015	423 644	3.8	7.96	333.3	3.8	

Source: Minitry of Health, Labor and Welfare, 2015 National Medical Expenditure, 2017

Notes: The part of the previous \[\text{National Medical Expenditure} \], which fell under the coverage of LTC insurance scheme as it started in April of 2000, has been removed from the new 「National Medical Expenditure」 in 2000 and after.

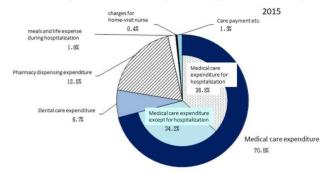
- O Looking over by treatment type. 'medical care expenditure' was 30 trillion and 46.1 billion yen(70.9%). Among it, inpatient care expenditure was 15 trillion and 575.2 billion yen(36.8%) and non-inpatient care expenditure is 14 trillion and 470.9 billion ven(34.2%).
- Dental care expenditure was 2 trillion and 829.4 billion yen(6.7%), pharmacy-dispensing expenditure was 7 trillion and 983.1 billion ven(18.8%), meal and living expenditure during hospitalization was 801.4 billion yen(1.9%), nurse-visiting expenditure was 148.5 billion yen(0.4%), and 'cash payment etc.' was 555.8 billion yen(1.3%) (here, 'cash payment etc.' includes the cost of treatment, transportation and orthotics by chiropractor and acupuncturist which are covered by public health insurance).

Table 26 Treatment Type Composition of National Medical Expenditure |

Treatment type	Expenditure (0.1 billion yen)		Share (%)
National Total Medical Expenditure	423	644	100.0
Medical care expenditure	300	461	70.9
Medical care expenditure for hospitalization	155	752	36.8
Hospitals	151	772	35.8
doctor's clinic	3	980	0.9
Medical care expenditure except for hospitalization	144	709	34.2
Hospitals	60	088	14.2
doctor's clinic	84	622	20.0
Dental care expenditure	28	294	6.7
Pharmacy dispensing expenditure	79	831	18.8
Meals and life expense during hospitalization	8	014	1.9
Charges for home-visit nurse	1	485	0.4
Care payment etc.	5	558	1.3

Source: Minitry of Health, Labor and Welfare, 2015 National Medical Expenditure, 2017

Percentage of National Medical Expenditure by type of treatment in Japan



B. Expenditure by Disease · Age · Gender

(1) medical care expenditure in 2015

(a) By Disease

☐ medical care expenditure by Disease

- O Looking over medical care expenditure by primary disease category, 'Diseases of the circulatory system' was the largest (5 trillion and 981.8 billion yen, 19.9%), then in order Neoplasms 4 trillion and 125.7 billion ven(13.7%), 'Diseases of the musculoskeletal system and connective tissue' 2 trillion and 326.1 billion yen(7.7%), 'Diseases of the respiratory system' 2 trillion and 223.0 billion yen(7.4%), 'Injury, poisoning and certain other consequences of external causes' 2 trillion and 221.2 billion yen(7.4%).
- O Looking over 'medical care expenditure' by age group, 'under 65' age group had Neoplasms 1 trillion and 521.2 billion yen(13.0%) as its highest and '65 or above' age group had 'Diseases of the circulatory system' 4 trillion and 686.9 billion yen(25.5%) as its highest.

Table 27 'Medical care expenditure' by Disease sub-classification

		Medical care expenditure	Share
	Classification of disease and related health problems	(0.1 billion yen)	(%)
	Total	300 461	100
I	Certain infectious and parasitic diseases	7 515	2.5
	Intestinal Infectious Diseases	1 278	0.4
	Tuberculosis	244	0.1
	Viral hepatitis	2 575	0.9
П	Neoplasms	41 257	13.7
	Malignant neoplasm	35 889	11.9
	Malignant neoplasm of stomach	3 358	1.1
	Malignant neoplasm of colon and rectum	5 873	2.0
	Malignant neoplasm of liver and intrahepatic bile ducts	1 423	0.5
	Malignant neoplasm of bronchus and lung	4 503	1.5
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	Malignant neoplasm of connective tissue of breast	3 395	1.1
	Malignant neoplasm of uterus	884	0.3
Ш	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	2 605	0.9
IV	Endocrine, nutritional and metabolic diseases	20 752	6.9
	Diabetes mellitus	12 356	4.1
V	Mental and behavioral disorders	19 242	6.4
	vascular and unspecified dementia	1 627	0.5
	Schizophrenia, schizotypal and delusional disorders	9 849	3.3
	Mood (emotional) disorders (include bipolar disorder)	3 484	1.2
	Neurotic, stress-related and somatoform disorders	1 534	0.5
VI	Diseases of the nervous system	13 637	4.5
	Alzheimer's disease	2 996	1.0
VII	Diseases of the eye and adnexa	11 085	3.7
	cataract	2 651	0.9
VIII	Diseases of the ear and mastoid process	1 899	0.6
IX	Diseases of the respiratory system	59 818	19.9
	Hypertensive disease	18 500	6.2
	heart disease (other than hypertensive heart disease)	18 848	6.3
	ischemic heart disease	7 562	2.5
	Cerebrovascular diseases	17 966	6.0
X	Diseases of the respiratory system	22 230	7.4
	pneumonia	3 382	1.1
	chronic obstructive pulmonary disease	1 473	0.5
	asthma	3 507	1.2
ΧI	Diseases of the digestive system	17 170	5.7
	Diseases of stomach and duodenum	4 381	1.5
	Diseases of liver	1 727	0.6
ΧП	Diseases of the skin and subcutaneous tissue	5 469	1.8
ΧШ	Diseases of the musculoskeletal system and connective tissue	23 261	7.7
	inflammatory multiplex congenita	2 852	0.9
	Arthrosis	5 530	1.8
	vertebra disorder (include diseases of vertebra)	5 510	1.8
	disorders of bone density and structure	1 523	0.5
XIV	Diseases of the genitourinary system	21 592	7.2
	Glomerular diseases, Renal tubulo—inerstitial diseases, renal failure	15 637	5.2

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XVI Certain conditions originating in the perinatal period	2 088	0.7
XVII Congenital malformations, deformations and chromosomal abnormalities	1 984	0.7
$_{\mbox{\scriptsize XVIII}}$ Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	4 299	1.4
XIX Injury, poisoning and certain other consequences of external causes	22 212	7.4
Fracture	12 503	4.2

Source: Minitry of Health, Labor and Welfare, 2015 National Medical Expenditure, 2017

☐ medical care expenditure by Disease · Gender

O Looking over 'medical care expenditure' by gender, men had 'Diseases of the circulatory system'(21.2%), 'Neoplasms'(15.1%), 'Diseases of the genitourinary system'(8.3%) high while women had 'Diseases of the circulatory system'(18.6%), 'Neoplasms'(12.4%), 'Diseases of the musculoskeletal system and connective tissue' (9.9%) high.

Table 28 'Medical care expenditure' by Disease · Gender

	Classification of Diseases and Related Health Problems	Medical Care Expenditure	М	en	Women				
	nealth Froblems	(0.1 billion yen)	Expendit ure	Gender ratio	Expendit ure	Gender ration			
	Total	300 461	146 829	48.9%	153 632	51.1%			
I	Certain infectious and parasitic diseases	7 515	3 779	50.3%	3 736	49.7%			
П	Neoplasms	41 257	22 206	53.8%	19 051	46.2%			
Ш	Diseases of the blood and blood—forming organs and certain disorders involving the immune mechanism	2 605	1 364	52.4%	1 241	47.6%			
IV	Endocrine, nutritional and metabolic diseases	20 752	10 183	49.1%	10 569	50.9%			
V	Mental and behavioral disorders	19 242	9 168	47.6%	10 074	52.4%			
VI	Diseases of the nervous system	13 637	6 347	46.5%	7 290	53.5%			
VII	Diseases of the eye and adnexa	11 085	4 766	43.0%	6 320	57.0%			
VIII	Diseases of the ear and mastoid process	1 899	829	43.7%	1 070	56.3%			
IX	Diseases of the circulatory system	59 818	31 188	52.1%	28 630	47.9%			
X	Diseases of the respiratory system	22 230	11 812	53.1%	10 417	46.9%			
ΧI	Diseases of the digestive system	17 170	8 961	52.2%	8 209	47.8%			
ΧП	Diseases of the skin and subcutaneous tissue	5 469	2 588	47.3%	2 881	52.7%			
XIII	Diseases of the musculoskeletal system and connective tissue	23 261	8 061	34.7%	15 200	65.3%			
XIV	Diseases of the genitourinary system	21 592	12 202	56.5%	9 390	43.5%			
ΧV	Pregnancy, childbirth and the puerperium	2 345	-	-	2 345	100%			
XVI	Certain conditions originating in the perinatal period	2 088	1 098	52.6%	990	47.4%			
XVII	Congenital malformations, deformations and chromosomal abnormalities	1 984	1 023	51.6%	961	48.4%			
XVIII	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	4 299	1 917	44.6%	2 381	55.4%			
XIX	Injury, poisoning and certain other consequences of external causes	22 212	9 336	42.0%	12 876	58.0%			
	Fracture	12 503	4 060	32.5%	8 444	67.5%			

(b) By Age

☐ 「National Medical Expenditure」 by Age

- National Medical Expenditure by age group was as follows: 0-14 age group was 2 trillion and 532.7 billion ven(6.0%). 15-44 age group was 5 trillion and 323.1 billion yen(12.6%), 45-64 age group was 9 trillion and 381.0 billion ven(22.1%), '65 or above' age group was 25 trillion and 127.6 billion ven(59.3%).
- O National Medical Expenditure per person was as follows: 'under 65' age group was 185.837 thousand ven and '65 or above' age group was 742.096 thousand ven.

Table 29 Composition of National Medical Expenditure, per capita National Medical Expenditure, and 'medical care expenditure' by age

	National Expend		National Medical	Medical care	expenditure
Age range	Expenditure (0.1 billion yen)	Share (%)	Expenditure per capita (thousand yen)	Expenditure (0.1 billion yen)	Share (%)
All ages	423 644	100.0	333.3	300 461	100.0
0 ~ 4	12 262	2.9	244.9	9 629	3.2
5 ~ 9	7 299	1.7	137.2	4 272	1.4
10 ~ 14	5 766	1.4	102.6	3 717	1.2
15 ~ 19	4 729	1.1	78.1	3 163	1.1
20 ~ 24	5 045	1.2	82.8	3 223	1.1
25 ~ 29	6 917	1.6	105.9	4 456	1.5
30 ~ 34	9 206	2.2	124.5	6 009	2.0
35 ~ 39	11 740	2.8	139.5	7 606	2.5
40 ~ 44	15 595	3.7	158.4	10 129	3.4
45 ~ 49	17 054	4.0	194.6	11 291	3.8
50 ~ 54	19 642	4.6	244.8	13 251	4.4
55 ~ 59	23 416	5.5	308.1	16 147	5.4
60 ~ 64	33 697	8.0	394.0	23 750	7.9
65 ~ 69	48 765	11.5	499.7	34 801	11.6
70 ~ 74	50 882	12.0	653.4	36 341	12.1
75 ~ 79	50 930	12.0	801.5	36 689	12.2
80 ~ 84	47 420	11.2	943.5	34 859	11.6
85 or above	53 279	12.6	1 077.9	41 127	13.7

Source: Minitry of Health, Labor and Welfare, 2015 National Medical Expenditure, 2017

□ 「National Medical Expenditure」 by Age · Gender

- O Looking over the gender composition of National Medical Expenditure by age, 0-14 age group men were 1 trillion and 395.0 billion yen(6.8%) and women were 1 trillion and 137.7 billion ven(5.2%), 15-44 age group men were 2 trillion and 406.0 billion ven(11.8%), and women were 2 trillion and 917.2 billion ven(13.3%), 45-64 age group men were 4 trillion and 996.1 billion yen(24.5%), and women were 4 trillion 384.9 and billion yen 20.0%), '65 or above' age group men were 11 trillion and 614.3 billion yen(56.9%), and women were 13 trillion and 513.3 billion ven(61.6%).
- O Looking over National Medical Expenditure per person, 'under 65' age group men were 187,073 thousand yen and women were 183,628 thousand yen, while '65 or above' age group men were 792,574 thousand ven and women were 703,595 thousand ven.

Table 30 Composition of National Medical Expenditure by Age · Gender

		Men				
Age range	Expenditure (0.1 billion yen)	Share (%)	National Medical Expenditure per capita (thousand yen)	Expenditure (0.1 billion yen)	Share (%)	National Medical Expenditure per capita (thousand yen)
All ages	204 113	100.0	330.1	219 531	100.0	336.4
0 ~ 4	6 684	3.3	261.0	5 578	2.5	228.1
5 ~ 9	4 040	2.0	148.2	3 260	1.5	125.7
10 ~ 14	3 227	1.6	112.1	2 539	1.2	92.6
15 ~ 19	2 530	1.2	81.3	2 199	1.0	74.7
20 ~ 24	2 263	1.1	72.5	2 782	1.3	93.7
25 ~ 29	2 853	1.4	85.6	4 064	1.9	127.0
30 ~ 34	3 749	1.8	99.9	5 457	2.5	149.7
35 ~ 39	5 159	2.5	120.9	6 581	3.0	158.6
40 ~ 44	7 506	3.7	150.5	8 089	3.7	166.5
45 ~ 49	8 619	4.2	194.9	8 436	3.8	194.2
50 ~ 54	10 237	5.0	254.1	9 405	4.3	235.4
55 ~ 59	12 641	6.2	334.1	10 775	4.9	282.3
60 ~ 64	18 464	9.0	438.6	15 233	6.9	350.8
65 ~ 69	26 512	13.0	561.3	22 253	10.1	441.9
70 ~ 74	26 268	12.9	724.6	24 614	11.2	591.4
75 ~ 79	24 842	12.2	881.9	26 088	11.9	737.6
80 ~ 84	20 977	10.3	1 041.0	26 443	12.0	878.2
85 or above	17 544	8.6	1 187.8	35 735	16.3	1 031.0

☐ 「National Medical Expenditure」 by Age · Function(Provider)

- O Because the medical care, dental care and pharmacy classification reported in National Medical Expenditure statistics is a mixture of functional classification and provider classification, it is not identical to that of SHA classification. Still, it is possible to roughly compare them.
- Proportion of '65 or above' age group in 'medical care expenditure' was 61.2% which was higher than that in pharmacy-dispensing expenditure(58.5%) and that in dental care expenditure(39.1%).
- For dental care expenditure's case, the proportion of 15-44 age group was 24.9%, which was approximately twice than that of pharmacy-dispensing expenditure(12.5%) or 'medical care expenditure'(11.5%).

Table 31 National Medical Expenditure by Age · Function (Provider)

(unit: 0.1 billion ven)

	National Medio Expend	cal	Medical expend		Dental expend		Pharmacy dispensing expenditure		
	Expenditu Share re (%)				Expendit ure	Share (%)	Expendit ure	Share (%)	
Total	423 644	100	300 461	100	28 294	100	79 831	100	
under 65	172 368	40.7	116 644	38.8	17 231	60.9	33 090	41.5	
0-14	25 327	6.0	17 618	5.9	2 263	8.0	4 879	6.1	
15-44	53 231	12.6	34 587	11.5	7 039	24.9	9 981	12.5	
45-64	93 810	22.1	64 438	21.4	7 929	28.0	18 230	22.8	
65 or above	251 276	59.3	183 818	61.2	11 064	39.1	46 741	58.5	
70 or above	202 512	47.8	149 016	49.6	8 044	28.4	37 425	46.9	
75 or above	151 629	35.8	112 676	37.5	5 253	18.6	27 306	34.2	

Source: Minitry of Health, Labor and Welfare, 2015 National Medical Expenditure, 2017

O Although the figure above does not directly show, looking over the expenditure per person, 'medical care expenditure' of '65 or above' age group was 542.7 thousand yen which was 4.3 times that of 'under 65' age group of 125.1 thousand yen, dental care expenditure of '65 or above' age group was 32.7 thousand yen which was 1.8 times that of 'under 65' age group of 18.5 thousand ven, and pharmacy-dispensing expenditure of '65 or above' age group was 13.8 thousand yen which was 3.9 times that of 'under 65' age group of 35.5 thousand yen. It was confirmed that the low proportion of aged person's dental care expenditure results from the low per person expenditure.

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'medical care expenditure' by Disease · Age · Gender

O During adolescence, 'Diseases of the respiratory system' has a high ratio. As to become middle-aged, the ratios of both 'Diseases of the circulatory system 'and 'Neoplasms' gradually increase. During senescence, 'Diseases of the circulatory system' ratio especially rises. As for women, the ratio of 'Neoplasms' increases at a relatively younger age(45-64 age group) than that of men.

Table 32 'medical care expenditure' by Disease Age Gender (Expenditure)

(unit: 0.1 billion yen)

				Total					Men					Women		
	Classification of diseases			1 otai 15	45	65			Men 15	45	65			women 15	45	65
	and related health problems	Total	0-14	-44	-64	or above	Total	0-14	-44	-64	or above	Total	0-14	-44	-64	or aobve
	Total	300,461	17,618	34,587	64,438	183,818	146,829	9,732	15,492	35,055	86,550	153,632	7,887	19,094	29,384	97,267
I	Certain infectious and parasitic diseases	7,515	958	1,206	1,639	3,712	3,779	511	629	940	1,699	3,736	447	578	699	2,013
П	Neoplasms	41,257	471	3,416	11,325	26,045	22,206	252	1,014	5,269	15,671	19,051	219	2,402	6,055	10,375
Ш	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	2,605	234	649	515	1,207	1,364	168	370	262	566	1,241	66	280	254	641
IV	Endocrine, nutritional and metabolic diseases	20,752	552	1,818	5,290	13,091	10,183	320	871	3,030	5,963	10,569	233	948	2,261	7,128
V	Mental and behavioural disorders	19,242	434	4,031	6,262	8,515	9,168	284	2,028	3,445	3,411	10,074	150	2,003	2,817	5,104
VI	Diseases of the nervous system	13,637	545	1,882	2,649	8,561	6,347	308	1,063	1,510	3,467	7,290	237	819	1,140	5,094
VII	Diseases of the eye and adnexa	11,085	587	1,109	2,089	7,301	4,766	288	461	954	3,064	6,320	300	648	1,135	4,237
VIII	Diseases of the ear and mastoid process	1,899	522	295	358	724	829	282	123	148	276	1,070	241	172	210	448
IX	Diseases of the circulatory system	59,818	190	1,843	10,915	46,869	31,188	97	1,192	7,221	22,678	28,630	93	652	3,695	24,191
X	Diseases of the respiratory system	22,230	5,720	3,618	2,675	10,217	11,812	3,117	1,688	1,347	5,660	10,417	2,603	1,929	1,328	4,557
ΧI	Diseases of the digestive system	17,170	443	2,607	4,189	9,931	8,961	237	1,438	2,418	4,868	8,209	206	1,170	1,770	5,063
XΙΙ	Diseases of the skin and subcutaneous tissue	5,469	1,123	1,417	1,092	1,837	2,588	590	612	543	843	2,881	533	805	549	994
XШ	Diseases of the musculoskeletal system and connective tissue	23,261	522	1,919	5,055	15,764	8,061	287	901	2,008	4,865	15,200	235	1,018	3,047	10,900
XIV	Diseases of the genitourinary system	21,592	282	2,454	5,613	13,243	12,202	176	818	3,302	7,907	9,390	106	1,636	2,311	5,337
ΧV	Pregnancy, childbirth and the puerperium	2,345	4	2,329	12	1	-	-	-	-	-	2,345	4	2,329	12	1
XVI	Certain conditions originating in the perinatal period	2,088	2,018	63	7	0	1,098	1,088	6	4	0	990	930	57	3	0
XVII	Congenital malformations, deformations and chromosomal abnormalities	1,984	1,369	302	164	150	1,023	733	144	78	68	961	636	158	85	82
XVIII	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	4,299	339	616	820	2,524	1,917	185	255	401	1,077	2,381	154	361	419	1,447
XIX	Injury, poisoning and certain other consequences of external causes	22,212	1,305	3,012	3,770	14,125	9,336	811	1,881	2,176	4,468	12,876	495	1,131	1,594	9,657
	Fracture	12,503	382	1,015	1,718	9,388	4,060	262	697	905	2,196	8,444	121	318	812	7,193

Source: Minitry of Health, Labor and Welfare, 2015 National Medical Expenditure, 2017

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Table 33 'medical care expenditure' by Disease-Age-Gender (Share)

(unit: %)

	Classification of diseases			Total					Men					Women		
	Classification of diseases and related health problems	Total	0-14	15 -44	45 -64	65 or over	Total	0-14	15 -44	45 -64	65 or over	Total	0-14	15 -44	45 -64	65 or over
	Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
I	Certain infectious and parasitic diseases	2.5	5.4	3.5	2.5	2.0	2.6	5.3	4.1	2.7	2.0	2.4	5.7	3.0	2.4	2.1
II	Neoplasms	13.7	2.7	9.9	17.6	14.2	15.1	2.6	6.5	15.0	18.1	12.4	2.8	12.6	20.6	10.7
Ш	Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	0.9	1.3	1.9	0.8	0.7	0.9	1.7	2.4	0.7	0.7	0.8	0.8	1.5	0.9	0.7
IV	Endocrine, nutritional and metabolic diseases	6.9	3.1	5.3	8.2	7.1	6.9	3.3	5.6	8.6	6.9	6.9	3.0	5.0	7.7	7.3
V	Mental and behavioural disorders	6.4	2.5	11.7	9.7	4.6	6.2	2.9	13.1	9.8	3.9	6.6	1.9	10.5	9.6	5.2
VI	Diseases of the nervous system	4.5	3.1	5.4	4.1	4.7	4.3	3.2	6.9	4.3	4.0	4.7	3.0	4.3	3.9	5.2
VII	Diseases of the eye and adnexa	3.7	3.3	3.2	3.2	4.0	3.2	3.0	3.0	2.7	3.5	4.1	3.8	3.4	3.9	4.4
VIII	Diseases of the ear and mastoid process	0.6	3.0	0.9	0.6	0.4	0.6	2.9	0.8	0.4	0.3	0.7	3.1	0.9	0.7	0.5
IX	Diseases of the circulatory system	19.9	1.1	5.3	16.9	25.5	21.2	1.0	7.7	20.6	26.2	18.6	1.2	3.4	12.6	24.9
X	Diseases of the respiratory system	7.4	32.5	10.5	4.2	5.6	8.0	32.0	10.9	3.8	6.5	6.8	33.0	10.1	4.5	4.7
ΧI	Diseases of the digestive system	5.7	2.5	7.5	6.5	5.4	6.1	2.4	9.3	6.9	5.6	5.3	2.6	6.1	6.0	5.2
$X \amalg$	Diseases of the skin and subcutaneous tissue	1.8	6.4	4.1	1.7	1.0	1.8	6.1	4.0	1.5	1.0	1.9	6.8	4.2	1.9	1.0
XIII	Diseases of the musculoskeletal system and connective tissue	7.7	3.0	5.5	7.8	8.6	5.5	2.9	5.8	5.7	5.6	9.9	3.0	5.3	10.4	11.2
XIV	Diseases of the genitourinary system	7.2	1.6	7.1	8.7	7.2	8.3	1.8	5.3	9.4	9.1	6.1	1.3	8.6	7.9	5.5
XV	Pregnancy, childbirth and the puerperium	0.8	0.0	6.7	0.0	0.0	-	-	_	_	_	1.5	0.1	12.2	0.0	0.0
XVI	Certain conditions originating in the perinatal period	0.7	11.5	0.2	0.0	0.0	0.7	11.2	0.0	0.0	0.0	0.6	11.8	0.3	0.0	0.0
XVII	Congenital malformations, deformations and chromosomal abnormalities	0.7	7.8	0.9	0.3	0.1	0.7	7.5	0.9	0.2	0.1	0.6	8.1	0.8	0.3	0.1
XVIII	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1.4	1.9	1.8	1.3	1.4	1.3	1.9	1.6	1.1	1.2	1.5	2.0	1.9	1.4	1.5
XIX	Injury, poisoning and certain other consequences of external causes	7.4	7.4	8.7	5.9	7.7	6.4	8.3	12.1	6.2	5.2	8.4	6.3	5.9	5.4	9.9
	Fracture	4.2	2.2	2.9	2.7	5.1	2.8	2.7	4.5	2.6	2.5	5.5	1.5	1.7	2.8	7.4

(2) Time trends during 1995-2015

- O For two decades from 1995 to 2015, the entire 'medical care expenditure' increased on average 1.6% per year. In 1995 it was 21 trillion and 868.3 billion ven and in 2015 it rose to 30 trillion and 46.1 billion ven. 1.4 times.
- O Diseases with the highest growth rate in the same period were in order 'Certain conditions originating in the perinatal period'(avg. 5.9% per year, 3.2 times), 'Congenital malformations, deformations and chromosomal abnormalities' (avg. 5.2% per year, 2.7 times), 'Diseases of the nervous system'(avg. 4.9% per vear. 2.6 times). However, these diseases are each only 0.3% of the entire 'medical care expenditure', meaning that it is invalid to give notable meaning to the slight increases.
- 'Diseases of the digestive system' expenditure on contrary decreased (from 2 trillion and 46.1 billion ven to 1 trillion and 71.7 billion ven. 0.8 times). 'Diseases of the ear and mastoid process' (1.0 times) and 'Pregnancy, childbirth and the puerperium'(1.1 times) are at a halt.
- O 'Diseases of the circulatory system' which had the highest proportion in 1995 (5 trillion and 56.8 billion yen, 21% of entire 'medical care expenditure') showed a slow average growth rate of 0.8% per year, but currently in 2015 it still maintains the highest proportion (5 trillion and 981.8 billion ven. 19.9% of entire 'medical care expenditure').
- 'Neoplasms' which had around half the proportion of 'Diseases of the circulatory system' in 1995 (2 trillion and 322.8 billion yen, 10.6% of entire 'medical care expenditure') showed a high average growth rate of 2.9% per year, and currently in 2015 it occupies 13.7% of entire 'medical care expenditure' (13.7%).

- 'Diseases of the digestive system' which had similar proportion to 'Neoplasms' in 1995 (2 trillion and 46.1 billion yen, 9.4% of entire 'medical care expenditure') showed a decreasing average growth rate of -0.9% per year, and currently it only occupies 5.7% of entire 'medical care expenditure' (1 trillion and 717.0 billion ven).
- O 'Diseases of the nervous system' which had a low proportion in 1995 (522.7 billion ven. 2.4% of entire 'medical care expenditure') showed a high average growth rate of 4.9% per year over the past 20 years, and currently it occupies 4.5% of entire 'medical care expenditure'.

Table 34 Sequential change of 'medical care expenditure' by Disease from 1995-2015

(unit: 0.1 billion yen, %)

		1	Medical care	expenditure	(0.1 billion	n yen)		Ye	ear over ye	ar growth	rate(%)	N	Multiple	incremen	tal (199	5=1.0)
Classification of diseases and related health problems	1995	Share	2000	2005	2010	2015	Share	1995 -2000	2000 -2005	2005 -2010	2010 -2015	1995	2000	2005	2010	2015
Certain infectious and parasitic diseases	6,527	3.0%	7,490	6,653	6,743	7,515	2.5%	2.8	-2.3	0.3	2.2	1.0	1.1	1.0	1.0	1.2
Neoplasms Diseases of the blood and blood-forming organs	23,228	10.6%	25,774	30,535	34,750	41,257	13.7%	2.1	3.4	2.6	3.5	1.0	1.1	1.3	1.5	1.8
and certain disorders involving the immune mechanism	1,382	0.6%	1,300	1,323	2,214	2,605	0.9%	-1.2	0.4	10.8	3.3	1.0	0.9	1.0	1.6	1.9
Endocrine, nutritional and metabolic diseases	13,647	6.2%	16,563	17,153	19,828	20,752	6.9%	3.9	0.7	2.9	0.9	1.0	1.2	1.3	1.5	1.5
Mental and behavioural disorders	13,703	6.3%	16,574	18,863	19,590	19,242	6.4%	3.9	2.6	0.8	-0.4	1.0	1.2	1.4	1.4	1.4
Diseases of the nervous system	5,227	2.4%	5,968	7,231	11,666	13,637	4.5%	2.7	3.9	10.0	3.2	1.0	1.1	1.4	2.2	2.6
Diseases of the eye and adnexa	8,349	3.8%	10,223	9,736	9,571	11,085	3.7%	4.1	-1.0	-0.3	3.0	1.0	1.2	1.2	1.1	1.3
Diseases of the ear and mastoid process	1,850	0.8%	1,973	1,939	1,864	1,899	0.6%	1.3	-0.3	-0.8	0.4	1.0	1.1	1.0	1.0	1.0
Diseases of the circulatory system	50,568	23.1%	53,487	53,792	56,601	59,818	19.9%	1.1	0.1	1.0	1.1	1.0	1.1	1.1	1.1	1.2
Diseases of the respiratory system	18,179	8.3%	19,700	21,329	21,140	22,230	7.4%	1.6	1.6	-0.2	1.0	1.0	1.1	1.2	1.2	1.2
Diseases of the digestive system	20,461	9.4%	17,189	14,838	16,503	17,170	5.7%	-3.4	-2.9	2.1	0.8	1.0	0.8	0.7	0.8	0.8
Diseases of the skin and subcutaneous tissue	4,269	2.0%	5,030	4,870	4,642	5,469	1.8%	3.3	-0.6	-1.0	3.3	1.0	1.2	1.1	1.1	1.3
Diseases of the musculoskeletal system and connective tissue	17,625	8.1%	18,926	17,148	20,263	23,261	7.7%	1.4	-2.0	3.4	2.8	1.0	1.1	1.0	1.1	1.3
Diseases of the genitourinary system	14,673	6.7%	15,295	20,293	19,390	21,592	7.2%	0.8	5.8	-0.9	2.2	1.0	1.0	1.4	1.3	1.5
Pregnancy, childbirth and the puerperium	2,040	0.9%	2,283	1,833	2,056	2,345	0.8%	2.3	-4.3	2.3	2.7	1.0	1.1	0.9	1.0	1.1
Certain conditions originating in the perinatal period	660	0.3%	950	1,150	1,760	2,088	0.7%	7.6	3.9	8.9	3.5	1.0	1.4	1.7	2.7	3.2
Congenital malformations, deformations and chromosomal abnormalities	726	0.3%	824	1,043	1,608	1,984	0.7%	2.6	4.8	9.0	4.3	1.0	1.1	1.4	2.2	2.7
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1,779	0.8%	2,300	2,542	4,081	4,299	1.4%	5.3	2.0	9.9	1.0	1.0	1.3	1.4	2.3	2.4
Injury, poisoning and certain other consequences of external causes	13,788	6.3%	16,110	17,405	17,958	22,212	7.4%	3.2	1.6	0.6	4.3	1.0	1.2	1.3	1.3	1.6
Fracture						12,503	4.2%									
Total	218,683	100%	237,960	249,677	272,228	300,461	100%	1.7	1.0	1.7	2.0	1.0	1.1	1.1	1.2	1.4

⁷⁶ Comparative Analysis on Health Accounts by Disease, Age and Gender

Chapter IV. Comparison between Korea and Japan

Chapter 4. Comparison between Korea and Japan

A. Two countries at the present time (2015)

- O To compare between Korean "Current Health Expenditure" and Japanese "National Medical Expenditure" or its 'medical care expenditure' part at the current point of time.
- Korea provides Current Health Expenditure by disease, age, and gender.
- In the case of Japan, there is no data for disease composition of the whole National Medical Expenditure but there are data for its 'medical care expenditure' part.
- O Disease composition of health expenditure is compared between Korea and Japan at present rather than the absolute amount of expenditure by disease.
- In the case of one-dimensional composition, proportions by disease as well as by age are compared.
- In the case of two-dimensional composition, proportions by age & disease, by age & gender, and by gender & disease are compared.

(1) one-dimensional composition

(a) Proportion of health expenditure by disease

- O In Korea, 'Diseases of the circulatory system'(11.5%), 'Diseases of the musculoskeletal system and connective tissue'(11.4%), and 'Diseases of the digestive system'(11.0%) are high in proportion of Current Health Expenditure, while in Japan, 'Diseases of the circulatory system' (19.9%) and 'Neoplasms' (13.7%) are relatively high, and 'Diseases of the musculoskeletal system and connective tissue'(7.7%) follows.
 - Proportions of 'Diseases of the circulatory system' and 'Neoplasms' in Japan are higher than those in Korea.
- Proportions of 'Diseases of the digestive system' and 'Diseases of the musculoskeletal system and connective tissue' in Korea are higher than those in Japan.

Table 35 Comparison of health expenditure proportion by disease between Korea and Japan

(Unit: %)

Classification of disease and related health problems	Korea	Japan
Certain infectious and parasitic diseases	2.9	2.5
Neoplasms	8.4	13.7
Diseases of the blood and blood-forming organs and	1.4	0.9
certain disorders involving the immune mechanism	-,-	
Endocrine, nutritional and metabolic diseases	3.5	6.9
Mental and behavioural disorders	4.4	6.4
Diseases of the nervous system	3.5	4.5
Diseases of the eye and adnexa	3.2	3.7
Diseases of the ear and mastoid process	0.7	0.6
Diseases of the circulatory system	11.5	19.9
Diseases of the respiratory system	8.5	7.4
Diseases of the digestive system	11.0	5.7
Diseases of the skin and subcutaneous tissue	1.6	1.8
Diseases of the musculoskeletal system and connective tissue	11.4	7.7
Diseases of the genitourinary system	6.3	7.2
Pregnancy, childbirth and the puerperium	0.9	0.8
Certain conditions originating in the perinatal period	0.3	0.7
Congenital malformations, deformations and chromosomal abnormalities	0.3	0.7
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1.9	1.4
Injury, poisoning and certain other consequences of external causes	8.6	7.4
Factors influencing health status and contact with health services	1.6	
Not elsewhere classified	8.1	
Total	100	100
Source: Minitry of Health Labor and Wolfgro 2015 National	1 Madical Expandit	uro 2017

(b) Proportion of health expenditure by age

- The proportion of health expenditure for '65 or above' age group is 39.6 % in Korea and that of Japan is 59.3% (61.2%), reflecting Japan's high level of aging population.
- The proportion of health expenditure for '75 or above' age group is 22.2 % in Korea, and that of Japan is 35.8% (37.5%).

Table 36 Comparison of health expenditure proportion by age between Korea and Japan

(Unit: %)

		Ja	pan
All ages	Korea	National Health Expenditure	Medical Care Expenditure
0-4	2.5	2.9	3.2
5-9	2.7	1.7	1.4
10-14	1.9	1.4	1.2
15-19	2.2	1.1	1.1
20-24	2.5	1.2	1.1
25-29	2.9	1.6	1.5
30-34	4.1	2.2	2.0
35-39	4.6	2.8	2.5
40-44	5.4	3.7	3.4
45-49	6.3	4.0	3.8
50-54	7.9	4.6	4.4
55-59	9.2	5.5	5.4
60-64	8.2	8.0	7.9
65-69	8.3	11.5	11.6
70-74	9.1	12.0	12.1
75-79	9.3	12.0	12.2
80-84	7.1	11.2	11.6
85 or above	5.7	12.6	13.7
65 or above	39.6	59.3	61.2
75 or above	22.2	35.8	37.5
Total	100	100	100

Source: Minitry of Health, Labor and Welfare, 2015 National Medical Expenditure, 2017

(2) Two-dimensional composition

(a) Proportion of health expenditure by age · disease

Disease composition by age

- O Table 37 compares disease proportion of each age group's health expenditure between two countries.
- O In terms of disease composition of 0-14 age group's health expenditure, 'Diseases of the respiratory system' is the highest in both Korea and Japan. 'Diseases of the digestive system' and 'Diseases of the eye and adnexa' follows in Korea, but in Japan, the diseases that have a high proportion are 'Certain conditions originating in the perinatal period' and 'Congenital malformations, deformations and chromosomal abnormalities'.
 - In Korea, the order is 'Diseases of the respiratory system' (27.0%), 'Diseases of the digestive system' (9.5%), 'Diseases of the eye and adnexa'(8.4%), and 'Injury, poisoning and certain other consequences of external causes'(7.5%).
- In Japan, the order is 'Diseases of the respiratory system' (32.5%), 'Certain conditions originating in the perinatal period' (11.5%), 'Congenital malformations, deformations and chromosomal abnormalities'(7.8%), and 'Injury, poisoning and certain other consequences of external causes'(7.4%).

- O In terms of disease composition of 15-44 age group's health expenditure. 'Diseases of the digestive system' is the highest in Korea, and 'Mental and behavioural disorders' is the highest in Iapan
- In Korea, the order is 'Diseases of the digestive system' (15.5%), 'Injury, poisoning and certain other consequences of external causes' (11.1%), and 'Diseases of the musculoskeletal system and connective tissue' (10.4%).
- In Japan, the order is 'Mental and behavioural disorders' (11.7%), 'Diseases of the respiratory system' (10.5%), 'Neoplasms' (9.9%), and 'Injury, poisoning and certain other consequences of external causes'(8.7%).
- O In terms of disease composition of 45-64 age group's health expenditure, 'Diseases of the musculoskeletal system and connective tissue' is the highest in Korea, while 'Neoplasms' is the highest in Japan.
- In Korea, the order is 'Diseases of the musculoskeletal system and connective tissue'(13.5%), 'Diseases of the digestive system'(12.1%), 'Diseases of the circulatory system' (11.3%), 'Neoplasms' (10.5%), and 'Injury, poisoning and certain other consequences of external causes'(8.4%).
- In Japan, the order is 'Neoplasms' (17.6%), 'Diseases of the circulatory system'(16.9%), 'Mental and behavioural disorders'(9.7%), 'Diseases of the genitourinary system' (8.7%), and 'Endocrine, nutritional and metabolic diseases'(8.2%).
- O In terms of disease composition of 65 or above age group's health expenditure, 'Diseases of the circulatory system' is the highest in both Korea and Iapan, and 'Diseases of the musculoskeletal system and connective tissue' and 'Neoplasms' are higher than the other diseases.

- In Korea, the order is 'Diseases of the circulatory system' (17.8%), 'Diseases of the musculoskeletal system and connective tissue' (11.4%). 'Diseases of the respiratory system' (8.9%), 'Neoplasms' (8.8%), and 'Diseases of the digestive system' (8.0%).
- In Japan, the order is 'Diseases of the circulatory system' (25.5%), 'Neoplasms' (14.2%), and 'Diseases of the musculoskeletal system and connective tissue'(8.6%).

Table 37 Comparison on disease composition by age between Korea and Japan

CL :C : (D: 1D1:1			Ко	rea				Japan						
Classification of Diseases and Related Health Problems	0-14	15-44	45-64	65 or above	75 or above	total	0-14	15-44	45-64	65 or above	75 or above	Total		
Certain infectious and parasitic diseases	3.7	3.5	2.6	2.6	3.1	2.9	5.4	3.5	2.5	2.0	1.9	2.5		
Neoplasms	3.1	6.1	10.5	8.8	7.5	8.4	2.7	9.9	17.6	14.2	11.3	13.7		
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	2.7	3.6	0.9	0.3	0.3	1.4	1.3	1.9	0.8	0.7	0.7	0.9		
Endocrine, nutritional and metabolic diseases	2.8	1.9	4.2	3.8	3.3	3.5	3.1	5.3	8.2	7.1	6.4	6.9		
Mental and behavioural disorders	1.3	3.9	3.8	5.6	7.3	4.4	2.5	11.7	9.7	4.6	3.9	6.4		
Diseases of the nervous system	1.8	2.0	3.0	5.0	5.0	3.5	3.1	5.4	4.1	4.7	5.4	4.5		
Diseases of the eye and adnexa	8.4	3.3	2.9	2.6	1.9	3.2	3.3	3.2	3.2	4.0	3.7	3.7		
Diseases of the ear and mastoid process	2.6	0.8	0.7	0.4	0.4	0.7	3.0	0.9	0.6	0.4	0.3	0.6		
Diseases of the circulatory system	1.5	3.6	11.3	17.8	18.9	11.5	1.1	5.3	16.9	25.5	27.5	19.9		
Diseases of the respiratory system	27.0	7.3	4.6	8.9	11.2	8.5	32.5	10.5	4.2	5.6	6.7	7.4		
Diseases of the digestive system	9.5	15.5	12.1	8.0	7.6	11.0	2.5	7.5	6.5	5.4	5.4	5.7		
Diseases of the skin and subcutaneous tissue	2.4	2.7	1.3	1.0	1.0	1.6	6.4	4.1	1.7	1.0	1.0	1.8		
Diseases of the musculoskeletal system and connective tissue	5.7	10.4	13.5	11.4	9.3	11.4	3.0	5.5	7.8	8.6	8.5	7.7		
Diseases of the genitourinary system	1.6	5.4	6.3	7.7	7.6	6.3	1.6	7.1	8.7	7.2	6.5	7.2		
Pregnancy, childbirth and the puerperium	0.0	4.1	0.0	0.0	0.0	0.9	0.0	6.7	0.0	0.0	0.0	0.8		
Certain conditions originating in the perinatal period	3.8	0.0	0.0	0.0	0.0	0.3	11.5	0.2	0.0	0.0	0.0	0.7		
Congenital malformations, deformations and chromosomal abnormalities	2.2	0.3	0.1	0.0	0.0	0.3	7.8	0.9	0.3	0.1	0.1	0.7		
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	3.2	2.2	1.7	1.8	1.9	1.9	1.9	1.8	1.3	1.4	1.5	1.4		
Injury, poisoning and certain other consequences of external causes	7.5	11.1	8.4	7.5	8.6	8.6	7.4	8.7	5.9	7.7	9.3	7.4		
Factors influencing health status and contact with health services	3.0	2.4	1.6	1.0	0.8	1.6								
Not elsewhere classified	6.3	9.9	10.3	5.7	4.1	8.1								
Total	100	100	100	100	100	100	100	100	100	100	100	100		

Source: Minitry of Health, Labor and Welfare, 2015 National Medical Expenditure, 2017 86 Comparative Analysis on Health Accounts by Disease, Age and Gender

(b) Age Composition by Disease

- O Table 38 compares age composition of health expenditure by disease between two countries.
- O In both Korea and Japan, in the case of 'Certain conditions originating in the perinatal period' and 'Congenital malformations, deformations and chromosomal abnormalities', 0-14 age group has the highest proportion, and in the case of 'Pregnancy, childbirth and the puerperium', 15-44 age group has the highest proportion.
 - In Korea, 15-44 age group(55.3%) has the highest proportion in the case of 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism'; 45-64 age group(28.3%) in the case of 'Diseases of the ear and mastoid process'; 45-64 age group(34.9%) in the case of 'Diseases of the digestive system'; 15-44 age group(36.8%) in the case of 'Diseases of the skin and subcutaneous tissue'; and 65 or above age group in the case of the other diseases.
 - In Japan, 65 or above age group has the highest proportion in the case of other diseases than 'Pregnancy, childbirth and the puerperium', 'Certain conditions originating in the perinatal period' and 'Congenital malformations, deformations and chromosomal abnormalities'. Meanwhile, 15-44 age group(24.9%) has the second highest proportion in the case of 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism'; 0-14 age group(27.5%) in the case of 'Diseases of the ear and mastoid process', 0-14 age group(25.7%) in the case of 'Diseases of the respiratory system', and 15-44 age group(25.9%) in the case of 'Diseases of the skin and subcutaneous tissue', following 65 or above age group.

Table 38 Comparison on age composition by disease between Korea and Japan

(Unit: %)

	Korea Japan											
Classification of Diseases and Related		1	IV0.						Jal			
Health Problems	0-14	15-44	45-64	65 or above	75 or above	total	0-14	15-44	45-64	65 or above	75 or above	Total
Certain infectious and parasitic diseases	9.2	26.7	28.4	35.7	24.1	100	12.7	16.0	21.8	49.4	28.2	100
Neoplasms	2.6	15.7	39.9	41.8	19.9	100	1.1	8.3	27.4	63.1	30.8	100
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	13.8	55.3	21.2	9.6	5.0	100	9.0	24.9	19.8	46.3	30.0	100
Endocrine, nutritional and metabolic diseases	5.8	11.9	38.7	43.6	21.3	100	2.7	8.8	25.5	63.1	34.8	100
Mental and behavioural disorders	2.2	19.0	27.9	50.9	37.3	100	2.3	20.9	32.5	44.3	22.9	100
Diseases of the nervous system	3.7	12.4	27.2	56.6	31.9	100	4.0	13.8	19.4	62.8	44.4	100
Diseases of the eye and adnexa	18.3	22.1	28.0	31.6	12.9	100	5.3	10.0	18.8	65.9	37.2	100
Diseases of the ear and mastoid process	25.0	23.6	28.3	23.0	10.8	100	27.5	15.5	18.9	38.1	19.9	100
Diseases of the circulatory system	0.9	6.8	31.0	61.3	36.4	100	0.3	3.1	18.2	78.4	51.9	100
Diseases of the respiratory system	22.6	18.8	17.1	41.5	29.5	100	25.7	16.3	12.0	46.0	33.9	100
Diseases of the digestive system	6.1	30.3	34.9	28.7	15.3	100	2.6	15.2	24.4	57.8	35.1	100
Diseases of the skin and subcutaneous tissue	10.7	36.8	26.6	25.9	14.6	100	20.5	25.9	20.0	33.6	19.6	100
Diseases of the musculoskeletal system and connective tissue	3.6	19.5	37.4	39.5	18.1	100	2.2	8.2	21.7	67.8	41.4	100
Diseases of the genitourinary system	1.7	18.3	31.6	48.4	26.6	100	1.3	11.4	26.0	61.3	34.1	100
Pregnancy, childbirth and the puerperium	0.0	99.3	0.6	0.0	0.0	100	0.2	99.3	0.5	0.0	0.0	100
Certain conditions originating in the perinatal period	95.9	2.1	1.4	0.5	0.3	100	96.6	3.0	0.3	0.0	0.0	100
Congenital malformations, deformations and chromosomal abnormalities	53.2	25.3	15.4	6.1	2.6	100	69.0	15.2	8.3	7.6	3.4	100
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	11.6	24.3	28.1	36.1	21.5	100	7.9	14.3	19.1	58.7	39.1	100
Injury, poisoning and certain other consequences of external causes	6.2	28.0	30.9	34.9	22.4	100	5.9	13.6	17.0	63.6	47.2	100
Factors influencing health status and contact with health services	12.9	31.4	31.9	23.8	10.8	100						
Not elsewhere classified	5.5	26.3	40.4	27.8	11.1	100						
Total	7.1	21.6	31.7	39.6	22.2	100	5.9	11.5	21.4	61.2	37.5	100

Source: Minitry of Health, Labor and Welfare, 2015 National Medical Expenditure, 2017

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(c) Proportion of health expenditure by age \cdot gender

- O As for men in Korea, the proportion of health expenditure starts to increase at 50--54 age group(8.3%), peaking at 55--59 age group(10.0%). As for men in Japan, it starts to increase at 60-64 age group(9.0%), peaking at 65-69 age group(13.0%).
- 65 or above age female group's health expenditure in the proportion of total female health expenditure is 43.1% in Korea, and 61.5% in Japan. 65 or above age male group's health expenditure in the proportion of total male health expenditure is 35.6% in Korea, and 57.0% in Japan.
- O Korea and Japan show quite a difference in their gender composition by age group.
- In Korea, health expenditure of men is higher than that of women from 0-4 age group to 20-24 age group, but after 20-29 age group, health expenditure of women is higher than that of men.
- In Japan, health expenditure of men is higher than that of women until 15-19 age group; health expenditure of women is higher from 20-24 age group to 40–44 age group; health expenditure of men is higher from $40\mbox{--}45$ age group; and that of women is higher after 70\mbox{--}74 age group.

Table 39 Comparison on gender composition by age between Korea and Japan

			Current	Health Expe	nditure in	Korea					National	Medical exp	enditure i	n Japan		
		Men			Women		Gende	r ratio		Men			Women		Gende	er ratio
All ages	Expenditure (0.1 billion won)	Share (%)	Per capita (thousan d won)	Expenditure (0.1 billion won)	Share (%)	Per capita (thousan d won)	Men	Women	Expenditure (0.1 billion yen)	Share (%)	Per capita (thousa nd yen)	Expenditure (0.1 billion yen)	share (%)	Per capita (thousa nd yen)	Men	Women
0-4	15,585	2.9	1,359	13,614	2.2	1,251	53.4	46.6	6,684	3.3	261	5,578	2.5	228	54.5	45.5
5-9	15,542	2.9	1,337	15,144	2.4	1,388	50.6	49.4	4,040	2.0	148	3,260	1.5	126	55.3	44.7
10-14	11,771	2.2	936	10,151	1.6	875	53.7	46.3	3,227	1.6	112	2,539	1.2	93	56.0	44.0
15-19	13,352	2.5	805	11,769	1.9	778	53.2	46.8	2,530	1.2	81	2,199	1.0	75	53.5	46.5
20-24	14,253	2.7	788	14,107	2.3	894	50.3	49.7	2,263	1.1	73	2,782	1.3	94	44.9	55.1
25-29	15,176	2.9	959	18,224	2.9	1,260	45.4	54.6	2,853	1.4	86	4,064	1.9	127	41.2	58.8
30-34	19,872	3.7	1,071	26,979	4.3	1,536	42.4	57.6	3,749	1.8	100	5,457	2.5	150	40.7	59.3
35-39	25,282	4.8	1,312	27,837	4.5	1,500	47.6	52.4	5,159	2.5	121	6,581	3.0	159	43.9	56.1
40-44	30,218	5.7	1,411	31,584	5.1	1,523	48.9	51.1	7,506	3.7	151	8,089	3.7	167	48.1	51.9
45-49	35,937	6.8	1,671	36,447	5.9	1,723	49.6	50.4	8,619	4.2	195	8,436	3.8	194	50.5	49.5
50-54	44,135	8.3	2,107	47,298	7.6	2,305	48.3	51.7	10,237	5.0	254	9,405	4.3	235	52.1	47.9
55-59	53,090	10.0	2,761	53,033	8.5	2,733	50.0	50.0	12,641	6.2	334	10,775	4.9	282	54.0	46.0
60-64	47,292	8.9	3,508	47,540	7.6	3,370	49.9	50.1	18,464	9.0	439	15,233	6.9	351	54.8	45.2
65-69	47,542	9.0	4,682	48,549	7.8	4,404	49.5	50.5	26,512	13.0	561	22,253	10.1	442	54.4	45.6
70-74	48,015	9.1	6,081	56,815	9.1	5,849	45.8	54.2	26,268	12.9	725	24,614	11.2	591	51.6	48.4
75-79	44,163	8.3	8,020	63,068	10.1	7,831	41.2	58.8	24,842	12.2	882	26,088	11.9	738	48.8	51.2
80-84	29,633	5.6	10,758	52,669	8.5	9,837	36.0	64.0	20,977	10.3	1,041	26,443	12.0	878	44.2	55.8
65 or above	188,556	35.6	6,823	268,095	43.1	7,045	41.3	58.7	116,143	57.0	796	135,133	61.5	706	46.2	53.8
85 or above	19,203	3.6	68,696	46,994	5.1	11,662	29.0	71.0	17,544	8.6	1,188	35,735	16.3	1,031	32.9	67.1
Total	530,060	100	2,136	621,822	100	2,499	46.0	54.0	204,113	100	330	219531	100	336	48.2	51.8

Source: Minitry of Health, Labor and Welfare, 2015 National Medical Expenditure, 2017

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(d) Proportion of health expenditure by gender \cdot disease

i) Disease composition by gender

- O As shown in Table 40, in both Korea and Japan, men have the highest health expenditure in 'Diseases of the circulatory system'. In the case of women, health expenditure on 'Diseases of the musculoskeletal system' and connective tissue' is the highest in Korea, while 'Diseases of the circulatory system' is the highest in Japan.
- O As for Korean men, the order is 'Diseases of the circulatory system'(12.0%), 'Diseases of the digestive system'(11.5%), 'Diseases of the respiratory system'(9.1%), 'Diseases of the musculoskeletal system and connective tissue'(9.0%), and 'Injury, poisoning and certain other consequences of external causes'(9.0%).
- As for Japanese men, the order is 'Diseases of the circulatory system' (21.2%), 'Neoplasms' (15.1%), 'Diseases of the genitourinary system' (8.3%), and 'Diseases of the respiratory system' (8.0%).
- O As for Korean women, the order is 'Diseases of the musculoskeletal system and connective tissue'(13.5%), 'Diseases of the circulatory system'(11.1%), 'Diseases of the digestive system'(10.6%), and 'Injury, poisoning and certain other consequences of external causes'(8.2%).
- As for Japanese women, the order is 'Diseases of the circulatory system' (18.6%), 'Neoplasms' (12.4%), 'Diseases of the musculoskeletal system and connective tissue' (9.9%), and 'Injury, poisoning and certain other consequences of external causes' (8.4%).

ii) Gender composition by disease

- O The gender ratio of health expenditure in Korea and Japan is generally similar to each other in all diseases except 'Neoplasms', 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism', and 'Diseases of the genitourinary system'.
- In the case of 'Neoplasms', women have a higher proportion (52.2%) in Korea, while men have in Japan.
- O In the case of 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism', men's proportion (77.9%) is much higher than women in Korea, while there is no such a difference between men(52.4%) and women(47.6%) in Japan.
- In the case of 'Diseases of the genitourinary system', women's proportion is higher than that of men both in Japan(56.5%) and in Korea(53.1%).

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Table 40 Comparison on gender composition by disease between Korea and Japan

Classification of Diseases and Related Health	7		Korea				Japan			
Problems		portion by dis			r ratio		portion by dis			er ratio
	men	women	total	men	women	men	women	total	men	women
Certain infectious and parasitic diseases	3.1	2.7	2.9	49.3	50.7	2.6	2.4	2.5	50.3	49.7
Neoplasms	8.7	8.1	8.4	47.8	52.2	15.1	12.4	13.7	53.8	46.2
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	2.4	0.6	1.4	77.9	22.1	0.9	0.8	0.9	52.4	47.6
Endocrine, nutritional and metabolic diseases	3.5	3.5	3.5	46.2	53.8	6.9	6.9	6.9	49.1	50.9
Mental and behavioural disorders	4.2	4.5	4.4	44.0	56.0	6.2	6.6	6.4	47.6	52.4
Diseases of the nervous system	3.5	3.5	3.5	45.9	54.1	4.3	4.7	4.5	46.5	53.5
Diseases of the eye and adnexa	3.2	3.3	3.2	45.2	54.8	3.2	4.1	3.7	43.0	57.0
Diseases of the ear and mastoid process	0.7	0.8	0.7	44.7	55.3	0.6	0.7	0.6	43.7	56.3
Diseases of the circulatory system	12.0	11,1	11.5	47.8	52.2	21.2	18.6	19.9	52.1	47.9
Diseases of the respiratory system	9.1	7.9	8.5	49.8	50.2	8.0	6.8	7.4	53.1	46.9
Diseases of the digestive system	11.5	10.6	11.0	48.1	51.9	6.1	5.3	5.7	52.2	47.8
Diseases of the skin and subcutaneous tissue	1.7	1.5	1.6	48.4	51.6	1.8	1.9	1.8	47.3	52.7
Diseases of the musculoskeletal system and connective tissue	9.0	13.5	11.4	36.3	63.7	5.5	9.9	7.7	34.7	65.3
Diseases of the genitourinary system	6.5	6.2	6.3	46.9	53.1	8.3	6.1	7.2	56.5	43.5
Pregnancy, childbirth and the puerperium	0.0	1.7	0.9	0.0	100.0	0.0	1.5	0.8	0.0	100.0
Certain conditions originating in the perinatal period	0.3	0.2	0.3	54.0	46.0	0.7	0.6	0.7	52.6	47.4
Congenital malformations, deformations and chromosomal abnormalities	0.3	0.3	0.3	51.7	48.3	0.7	0.6	0.7	51.6	48.4
Symptoms, signs and abnormal clinical and aboratory findings, not elsewhere classified	1.9	2.0	1.9	43.7	56.3	1.3	1.5	1.4	44.6	55.4
Injury, poisoning and certain other consequences of external causes	9.0	8.2	8.6	48.2	51.8	6.4	8.4	7.4	42.0	58.0
Factors influencing health status and contact with health services	1.6	1.7	1.6	44.4	55.6					
Not elsewhere classified	8.0	8.2	8.1	45.5	54.5					
Total	100	100	100	46.0	54.0	100	100	100	48.9	51.1

B. Two countries at the same aging and income stage (Korea: 2015, Japan: 1995)

- O Table 41 shows population share of 65 or above age group between Korea and Japan.
- Korea's 9.3% in 2005 is similar to Japan's 9.1% in 1980.
- Korea's 11.3% in 2010 is similar to Japan's aging level in 1980-85.
- Korea's 13.2% in 2015 is similar to Japan's aging level in 1990-95.
- O To compare health expenditure at the same aging stage in both countries, Korea's 'Current Health Expenditure' in 2015 and Japan's 'National Medical Expenditure' or 'Medical Care Expenditure' in 1995 are chosen.

Table 41 Comparison on aging level between Korea and Japan

	Ко	rea		Japan							
Year	65 or above	70 or above	75 or above	Year	65 or above	70 or above	75 or above				
				1980	9.1%	5.7%	3.1%				
2005	9.3%	5.7%	3.0%								
				1985	10.3%	6.8%	3.9%				
2010	11.3%	7.5%	4.3%								
				1990	12.1%	7.9%	4.8%				
2015	13.2%	9.0%	5.4%								
				1995	14.6%	9.5%	5.7%				

source: KOSIS(Korea), 「Kokusei Survey(國勢調査)」(Japan)

(1) One-dimensional composition

(a) Proportion of health expenditure by disease

- O In Korea, 'Diseases of the circulatory system' (11.5%), 'Diseases of the musculoskeletal system and connective tissue'(11.4%), and 'Diseases of the digestive system' constitute high expenditure disease group with similar proportion, while in Japan, 'Diseases of the circulatory system' (23.1%) is overwhelmingly high, and 'Neoplasms' (10.6%) is relatively high.
- Proportion of 'Diseases of the circulatory system' in Japan is higher than that of Korea at present, and it was the case at the point of time with similar aging stage of both countries, suggesting that high proportion of 'Diseases of the circulatory system' is a characteristic of Japanese people beyond population aging.

Table 42 Comparison on proportions of health expenditure by disease between Korea and Japan

(Unit: %)

Classification of Diseases and Related Health Problems	Korea (Current Health expenditure)	Japan (Medical Care Expenditure)
Certain infectious and parasitic diseases	2.9	3.0
Neoplasms	8.4	10.6
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	1.4	0.6
Endocrine, nutritional and metabolic diseases	3.5	6.2
Mental and behavioural disorders	4.4	6.3
Diseases of the nervous system	3.5	2.4
Diseases of the eye and adnexa	3.2	3.8
Diseases of the ear and mastoid process	0.7	0.8
Diseases of the circulatory system	11.5	23.1
Diseases of the respiratory system	8.5	8.3
Diseases of the digestive system	11.0	9.4
Diseases of the skin and subcutaneous tissue	1.6	2.0
Diseases of the musculoskeletal system and connective tissue	11.4	8.1
Diseases of the genitourinary system	6.3	6.7
Pregnancy, childbirth and the puerperium	0.9	0.9
Certain conditions originating in the perinatal period	0.3	0.3
Congenital malformations, deformations and chromosomal abnormalities	0.3	0.3
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	1.9	0.8
Injury, poisoning and certain other consequences of external causes	8.6	6.3
Factors influencing health status and contact with health services	1.6	
Not elsewhere classified	8.1	
Total	100	100

(b) Proportion of health expenditure by age

- O Comparing composition of 'Current Health Expenditure' by age group in Korea with that of 'Medical Care Expenditure' in Japan, we can find that expenditure share of younger group in Korea is relatively higher than that in Japan.
- Proportion (45.2%) of '65 or above' age group in Japan is higher than that (49.6%) in Korea, and proportion (34.7%) of '70 or above' age group in Japan is higher than that (31.3%) in Korea.
- On the other hand, proportion (21.6%) of 15-44 age group is higher in Korea than that (17.0%) in Japan.

Table 43 Comparison on proportions of health expenditure by age between Korea and Japan

(Unit %)

All ages	Korea (Current Health expenditure)	Japan (Medical Care Expenditure)
0-14	7.1	6.4
15-44	21.6	17.0
45-64	31.7	31.4
65 or above	39.6	45.2
70 or above (duplication)	31.3	34.7
Total	100	100

(2) Two-dimensional composition

Disease Composition by age

- O In terms of 0-14 age group's disease composition (Table 44), the proportion of 'Diseases of the respiratory system' is the highest in both countries. In Korea, 'Diseases of the digestive system' and 'Diseases of the eye and adnexa' have a high proportion, while in Japan, 'Injury, poisoning and certain other consequences of external causes' and 'Diseases of the skin and subcutaneous tissue' had.
- In Korea, 'Diseases of the respiratory system' (27.0%) is the highest, and 'Diseases of the digestive system' (9.5%), 'Diseases of the eye and adnexa'(8.4%), and 'Injury, poisoning and certain other consequences of external causes'(7.5%) follow.
- In Japan, 'Diseases of the respiratory system' (40.8%) overwhelmingly high, and 'Injury, poisoning and certain other consequences of external causes' (10.8%) was relatively high.
- O In terms of disease composition of 15-44 age group, the proportion of 'Diseases of the digestive system' is the highest in Korea, while in Japan the proportion of 'Diseases of the respiratory system' was the highest, with 'Diseases of the digestive system' becoming of a similar proportion.
- In Korea, the order is 'Diseases of the digestive system' (15.5%), 'Injury, poisoning and certain other consequences of external causes' (11.1%), and 'Diseases of the musculoskeletal system and connective tissue' (10.4%). Proportion of 'Diseases of the respiratory system' has been lowered to 7.3%.

- In Japan, the order was 'Diseases of the respiratory system' (11.6%), 'Diseases of the digestive system' (11.0%), 'Injury, poisoning and certain other consequences of external causes' (10.9%), and 'Mental and behavioural disorders' (9.9%).
- Proportion of 'Mental and behavioural disorders' was 9.9% in Japan. which is much higher than that (3.9%) of Korea.
- O In terms of disease composition of 45-65 age group, 'Diseases of the musculoskeletal system and connective tissue' are the highest in Korea. while 'Diseases of the circulatory system' was the highest in Japan, 'Diseases of the digestive system' and 'Diseases of the circulatory system' are high in both Korea and Japan.
- In Korea, the order is 'Diseases of the musculoskeletal system and connective tissue'(13.5%). 'Diseases of the digestive system'(12.1%). 'Diseases of the circulatory system' (11.3%), and 'Neoplasms' (10.5%)
- In Japan, the order was 'Diseases of the circulatory system' (19.4%), 'Neoplasms' (13.6%), 'Diseases of the digestive system' (11.1%), 'Diseases of the genitourinary system'(9.1%), and 'Mental and behavioural disorders'(8.8%).
- Proportion of 'Mental and behavioural disorders' was 8.8% in Japan. which is much higher than that (3.8%) of Korea.
- O In terms of disease composition of '65 or above' age group, 'Diseases of the circulatory system' is the highest, and 'Diseases of the musculoskeletal system and connective tissue' and 'Neoplasms' are higher than the other diseases in both Korea and Japan.
- In Korea, the order is 'Diseases of the circulatory system' (17.8%), 'Diseases of the musculoskeletal system and connective tissue' (11.4%),

'Diseases of the respiratory system' (8.9%), 'Neoplasms' (8.8%), and 'Diseases of the digestive system' (8.0%). Disease composition of '75 or above' age group shows a similar distribution.

- In Japan, 'Diseases of the circulatory system' (35.7%) was overwhelmingly high, and 'Neoplasms' (10.7%) and 'Diseases of the musculoskeletal system and connective tissue' (10.1%) followed. Disease composition of '75 or above' age group showed a similar distribution.
- Proportion of 'Mental and behavioural disorders' decreased to 3.9% in Japan, while it increases to 5.6% in Korea.

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Table 44 Comparison on proportions of health expenditure by Disease-Age between Korea and Japan

(Unit %)

			Ко	rea					Jar	oan		
Classification of Diseases and Related Health Problems	0-14	15-44	45-64	65 or above	75 or above	Total	0-14	15-44	45-64	65 or above	75 or above	Total
Certain infectious and parasitic diseases	3.7	3.5	2.6	2.6	2.8	2.9	4.7	4.6	3.1	2.0	1.8	3.0
Neoplasms	3.1	6.1	10.5	8.8	8.3	8.4	2.2	7.9	13.6	10.7	9.7	10.6
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	2.7	3.6	0.9	0.3	0.3	1.4	1.3	1.2	0.5	0.4	0.4	0.6
Endocrine, nutritional and metabolic diseases	2.8	1.9	4.2	3.8	3.6	3.5	4.9	4.4	7.8	6.1	5.5	6.2
Mental and behavioural disorders	1.3	3.9	3.8	5.6	6.3	4.4	0.7	9.9	8.8	3.9	3.6	6.3
Diseases of the nervous system	1.8	2.0	3.0	5.0	5.1	3.5	3.9	3.8	2.1	1.9	1.9	2.4
Diseases of the eye and adnexa	8.4	3.3	2.9	2.6	2.1	3.2	4.2	3.1	2.9	4.7	4.8	3.8
Diseases of the ear and mastoid process	2.6	0.8	0.7	0.4	0.4	0.7	3.5	1.0	0.8	0.4	0.4	0.8
Diseases of the circulatory system	1.5	3.6	11.3	17.8	18.5	11.5	1.6	4.7	19.4	35.7	38.0	23.1
Diseases of the respiratory system	27.0	7.3	4.6	8.9	9.8	8.5	40.8	11.6	5.1	4.7	4.6	8.3
Diseases of the digestive system	9.5	15.5	12.1	8.0	8.0	11.0	3.6	11.0	11.7	7.9	7.3	9.4
Diseases of the skin and subcutaneous tissue	2.4	2.7	1.3	1.0	1.0	1.6	5.7	4.0	1.4	1.0	1.0	2.0
Diseases of the musculoskeletal system and connective tissue	5.7	10.4	13.5	11.4	10.6	11.4	2.0	6.0	7.5	10.1	10.5	8.1
Diseases of the genitourinary system	1.6	5.4	6.3	7.7	7.8	6.3	1.7	8.8	9.1	5.0	4.7	6.7
Pregnancy, childbirth and the puerperium	0.0	4.1	0.0	0.0	0.0	0.9	0.0	5.4	0.0	0.0	0.0	0.9
Certain conditions originating in the perinatal period	3.8	0.0	0.0	0.0	0.0	0.3	4.3	0.2	0.0	0.0	0.0	0.3
Congenital malformations, deformations and chromosomal abnormalities	2.2	0.3	0.1	0.0	0.0	0.3	3.2	0.4	0.1	0.0	0.0	0.3
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	3.2	2.2	1.7	1.8	1.8	1.9	1.2	1.2	0.9	0.6	0.6	0.8
Injury, poisoning and certain other consequences of external causes	7.5	11.1	8.4	7.5	7.9	8.6	10.8	10.9	5.1	4.8	5.1	6.3
Factors influencing health status and contact with health services	3.0	2.4	1.6	1.0	0.9	1.6						
Not elsewhere classified	6.3	9.9	10.3	5.7	4.9	8.1						
Total	100	100	100	100	100	100	100	100	100	100	100	100

(b) Age Composition by disease

- O In terms of age composition by disease (Table 45), 0-14 age group and 15-44 age group have overwhelmingly high proportion in 'Certain conditions originating in the perinatal period' and in 'Pregnancy, childbirth and the puerperium' respectively in both Korea and Japan.
- In the case of 'Congenital malformations, deformations and chromosomal abnormalities', the lower the age is, the higher the proportion is, and in case of both 'Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism' and 'Diseases of the skin and subcutaneous tissue', 15-44 age group has the highest proportion.
- O 'Diseases of the respiratory system' shows high proportion in both 0-14 age group and '65 or above' age group, and the lowest in 45-64 age group in both Korea and Japan. The difference between two countries lies in that 0-14 age group had the highest proportion in Japan while '65 or above' age group has the highest proportion in Korea.
- For most of other diseases, the higher the age is, the higher the proportion is.

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Table 45 Comparison on proportions of health expenditure by age disease between Korea and Japan

(Unit %)

Classification of Diseases and Related			Ко	rea		Japan						
Health Problems	0-14	15-44	45-64	65 or above	75 or above	total	0-14	15-44	45-64	65 or above	75 or above	Total
Certain infectious and parasitic diseases	9.2	26.7	28.4	35.7	30.3	100	10.0	26.2	32.9	30.8	21.3	100
Neoplasms	2.6	15.7	39.9	41.8	31.0	100	1.3	12.6	40.4	45.7	31.6	100
Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	13.8	55.3	21.2	9.6	7.3	100	13.0	32.3	26.7	27.9	23.0	100
Endocrine, nutritional and metabolic diseases	5.8	11.9	38.7	43.6	32.6	100	5.0	12.0	39.1	43.9	30.6	100
Mental and behavioural disorders	2.2	19.0	27.9	50.9	44.9	100	0.7	27.0	44.1	28.2	20.1	100
Diseases of the nervous system	3.7	12.4	27.2	56.6	45.7	100	10.3	26.7	27.1	35.9	27.7	100
Diseases of the eye and adnexa	18.3	22.1	28.0	31.6	20.6	100	6.9	13.9	23.9	55.3	44.1	100
Diseases of the ear and mastoid process	25.0	23.6	28.3	23.0	16.6	100	26.3	19.8	30.1	23.8	16.8	100
Diseases of the circulatory system	0.9	6.8	31.0	61.3	50.1	100	0.4	3.4	26.3	69.8	57.1	100
Diseases of the respiratory system	22.6	18.8	17.1	41.5	36.3	100	31.2	23.7	19.4	25.7	19.2	100
Diseases of the digestive system	6.1	30.3	34.9	28.7	22.6	100	2.4	20.0	39.2	38.4	27.2	100
Diseases of the skin and subcutaneous tissue	10.7	36.8	26.6	25.9	20.5	100	18.6	34.8	23.0	23.6	17.5	100
Diseases of the musculoskeletal system and connective tissue	3.6	19.5	37.4	39.5	28.9	100	1.6	12.7	29.3	56.4	45.2	100
Diseases of the genitourinary system	1.7	18.3	31.6	48.4	38.4	100	1.6	22.3	42.6	33.5	24.3	100
Pregnancy, childbirth and the puerperium	0.0	99.3	0.6	0.0	0.0	100	0.2	99.3	0.4	0.0	0.0	100
Certain conditions originating in the perinatal period	95.9	2.1	1.4	0.5	0.4	100	89.8	9.5	0.3	0.0	0.0	100
Congenital malformations, deformations and chromosomal abnormalities	53.2	25.3	15.4	6.1	4.2	100	61.2	21.6	12.3	5.0	4.1	100
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	11.6	24.3	28.1	36.1	29.4	100	9.5	24.4	33.0	33.1	25.6	100
Injury, poisoning and certain other consequences of external causes	6.2	28.0	30.9	34.9	28.8	100	10.9	29.3	25.3	34.5	28.0	100
Factors influencing health status and contact with health services	12.9	31.4	31.9	23.8	17.0	100						
Not elsewhere classified	5.5	26.3	40.4	27.8	18.9	100						
Total	100	100	100	100	100	100	100	100	100	100	100	100



Literature review

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