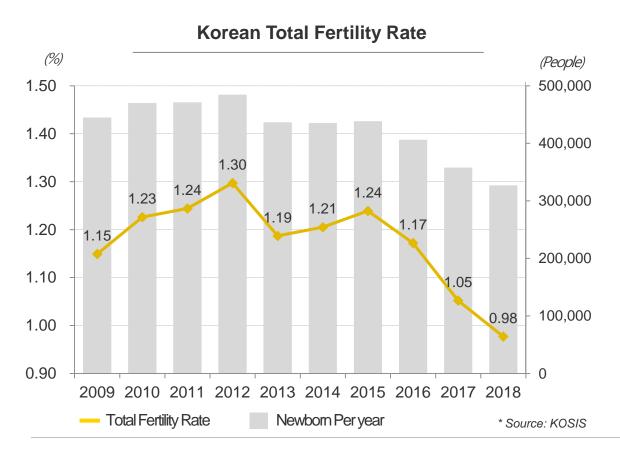
Health Care Industry

2.1. General Indicators of Health status(1) Total Fertility Rate

- Korea's Total Fertility rate in 2018 was 0.98.
- The government has encouraged to increase the birthrate with various policies.

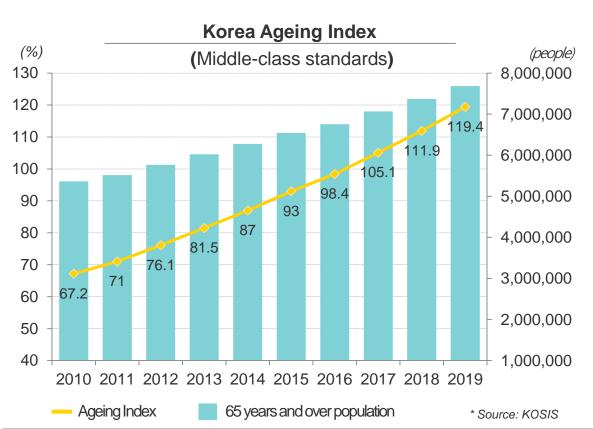


The ranking of 10 most active countries among OECD members in clinical trials (2017)			
Rank	Country	%	
1	France	1.9	
2	US	1.8	
2	UK	1.8	
4	China	1.6	
4	Germany	1.6	
6	Canada	1.5	
7	Japan	1.4	
8	Italy	1.3	
8	Spain	1.3	
10	Korea	1.1	

* Source: World Bank

2.1. General Indicators of Health status(2) Ageing Index

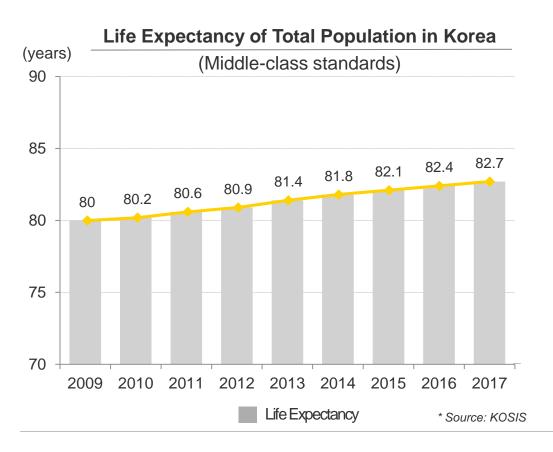
- The ageing index for 2019 was 119.4%.
- Ageing populations can drive economic growth as it becomes potential customers and investment opportunities to the pharmaceutical industry.



The ranking of 10 most active countries among OECD members in clinical trials (2018)			
Rank	Country	% of population ages 65 and above	
1	Japan	27	
2	Italy	23	
3	Germany	22	
4	France	20	
4	Spain	20	
6	UK	19	
7	Canada	17	
8	US	16	
9	Korea	14	
10	China	11	
* Source: World Bank			

2.1. General Indicators of Health status(3) Life Expectancy

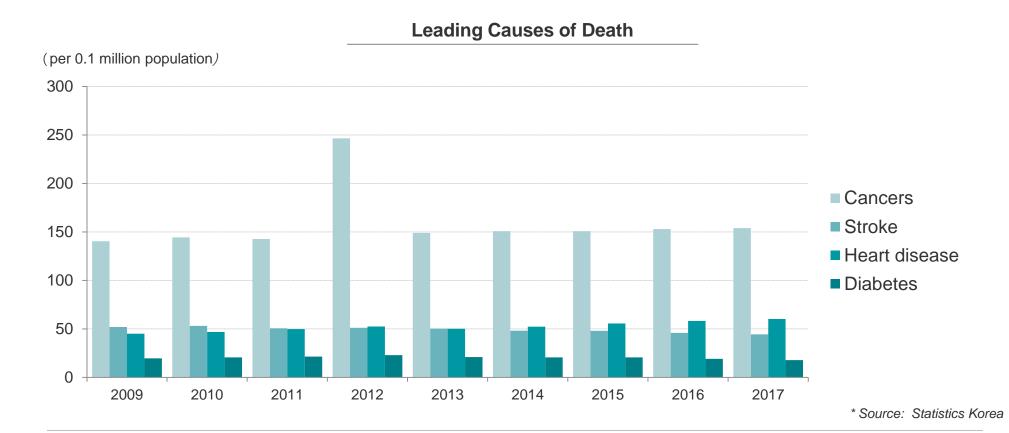
- ► Life expectancy in Korea was 82.7 years in 2017.
- Korea's Life expectancy continues to rise due to the advance in medicine and medical technology.



The ranking of 10 most active countries among OECD members in clinical trials (2017)			
Rank	Country	Years	
1	Japan	84	
2	Italy	83	
2	Spain	83	
2	France	83	
2	Korea	83	
6	Canada	82	
7	UK	81	
7	Germany	81	
9	US	79	
10	China	76	

2.1. General Indicators of Health status(4) Causes of Death

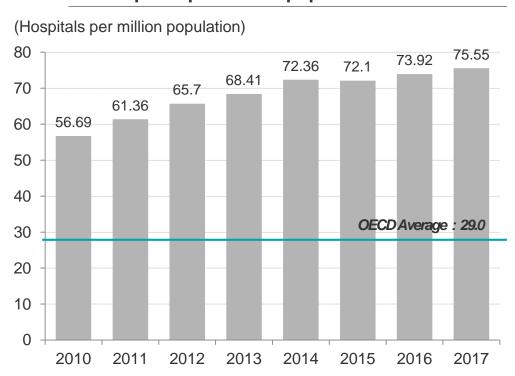
- > Cancer is the most common cause of all deaths in Korea.
- While the overall cancer incidence in Korea has increased rapidly, age-standardized cancer mortality rates have declined since 2002 and survival has improved.



(1) Hospitals per Million population

- With 75 hospitals per million population, Korea was the first among OECD members.
- Korea provides a large supply of health and hospital services at comparatively low price.

Hospitals per Million population in Korea

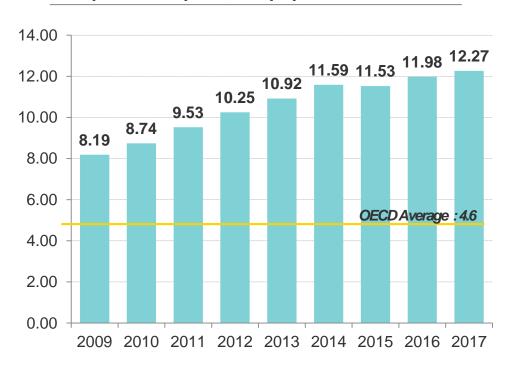


The ranking of 10 most active countries among OECD members in clinical trials (2017 or nearest year)			
Rank	Country	Number	
1	Korea	75.55	
2	Japan	66.39	
3	France	45.55	
4	Germany	37.31	
5	UK	29.06	
6	Canada	19.67	
7	Italy	17.56	
8	US	17.33	
9	Spain	16.68	
-	China	-	

(2) Hospital beds per 1,000 population

- Korea had 12.27 hospital beds per 1,000 population in 2017.
- Korea has the second highest in the supply of hospitals and high-technology medical equipment amongst OECD countries.

Hospital beds per 1,000 population in Korea



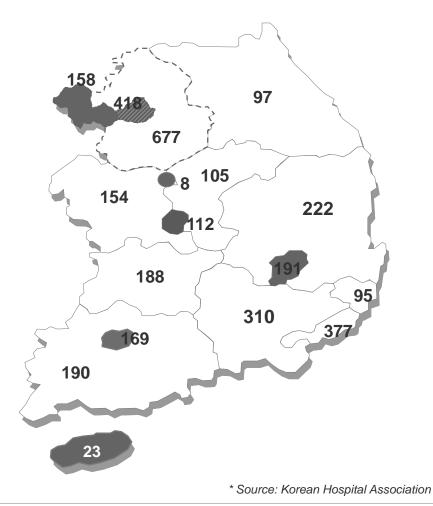
The ranking of 10 most active countries among OECD members in clinical trials (2017 or nearest year)				
Rank	Country	Number		
1	Japan	13.05		
2	Korea	12.27		
3	Germany	8		
4	France	5.98		
5	China	4.34		
6	Italy	3.18		
7	Spain	2.97		
8	US	2.8		
9	UK	2.54		
10	Canada	2.52		

(3) Korea's Medical Institutions

Regional Medical Institutions

Region	General Hospital	Hospital	Intermedi ate Care Hospital	Army Hospital	Total
Seoul	58	233	126	1	418
Busan	29	146	201	1	377
Daegu	16	110	65	-	191
Incheon	19	63	76	-	158
Gwangju	22	79	68	-	169
Daejeon	10	48	53	1	112
Ulsan	8	44	43	-	95
Gyeonggi	61	276	334	6	677
Gangwon	15	45	33	4	97
Chungbuk	13	39	52	1	105
Chungnam	13	46	93	2	154
Jeonbuk	13	86	89	-	188
Jeonnam	26	77	86	1	190
Gyeongbuk	19	82	119	2	222
Gyeongnam	25	144	139	2	310
Jeju	6	7	10	-	23
Sejong	-	1	7	-	8
Total	353	1,526	1,594	21	3,494

[Regional Medical Institutions]



(4) Korea's Medical Institutions

Medical Institutions by departments(1/2)

Medical departments	General Hospital	Hospital	Intermediate Care Hospital	Army Hospital	Total
Internal Medicine	312	606	451	19	1,388
Pediatrics	283	340	93	3	719
Neurology	215	160	285	11	671
Psychiatry	184	142	118	15	459
Dermatologist	139	124	107	18	388
Surgery	306	366	194	16	882
Thoracic Surgery	162	36	11	10	219
Orthopedics	308	438	192	19	957
Neurosurgery	294	291	144	18	747
Plastic Surgery	145	64	9	8	226
Obstetrics and gynecology	259	168	43	4	474
Ophthalmology	161	28	8	19	216
Otorhinolaryngology	211	94	61	19	385
Urology	226	116	87	18	447

^{*} Source: Korean Hospital Association

(4) Korea's Medical Institutions

Medical Institutions by departments (2/2)

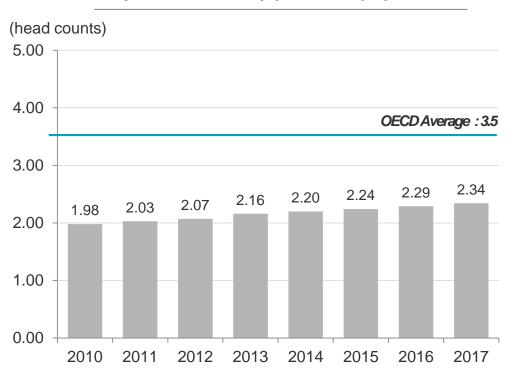
Medical departments	General Hospital	Hospital	Intermediate Care Hospital	Army Hospital	Total
Tuberculosis	14	6	1	-	21
Rehabilitation	169	185	256	6	616
Anesthesiology	309	381	58	19	767
Radiology	310	364	70	18	762
Radiation Oncology	71	3	-	-	74
Diagnosis	270	94	20	12	396
Pathology	182	41	13	6	242
Family Medicine	205	219	294	11	729
Nuclear Medicine	71	1	1	3	76
Emergency Medicine	177	28	5	5	215
Environmental Medicine	79	15	3	-	97
Dentist	216	16	4	4	240
Complementary and Alternative Medicine	22	6	2	1	31
Total	5,300	4,332	2,530	282	12,444

^{*} Source: Korean Hospital Association

(5) The number of physicians (per 1,000 population)

- ► In 2017, the official data shows that Korea has 2.3 physicians per 1,000 population.
- The number of physicians is gradually increasing due to continuous government efforts to establish medical schools and to improve the quality of medical practitioners.

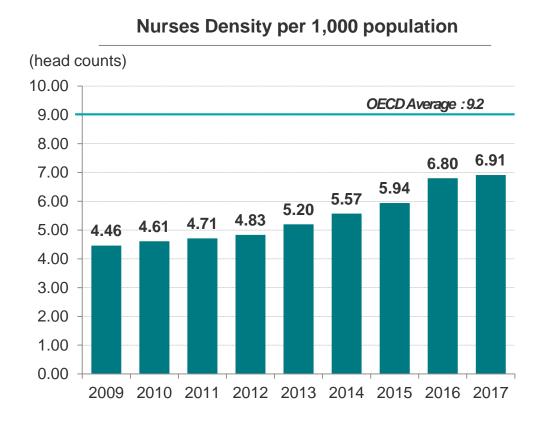
Physicians Density per 1,000 population



The ranking of 10 most active countries among OECD members in clinical trials (2017 or nearest year)				
Rank	Country	Number		
1	Germany	4.25		
2	Italy	3.99		
3	Spain	3.88		
4	France	3.16		
5	UK	2.81		
6	Canada	2.65		
7	US	2.61		
8	Japan	2.43		
9	Korea	2.34		
10	China	2.01		

(6) The number of nurses (per 1,000 population)

► In 2017, the official data shows that Korea has 6.9 nurses per 1,000 population.

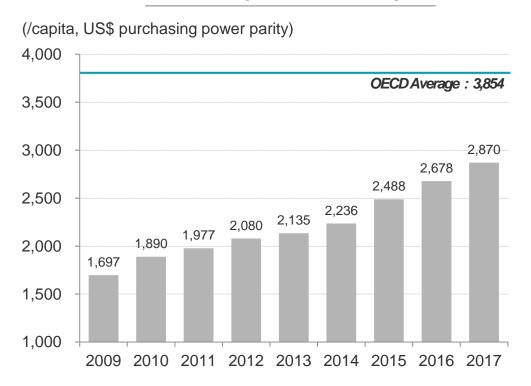


The ranking of 10 most active countries among OECD members in clinical trials (2017 or nearest year)			
Rank	Country	Number	
1	Germany	12.93	
2	Japan	11.34	
3	Canada	9.96	
4	UK	7.86	
5	Korea	6.91	
6	Italy	5.8	
7	Spain	5.51	
8	China	2.7	
-	France	-	
-	US	-	

2.3. Health Care Expenditure (1) Trends of Domestic Health Expenditure Per Capita

- With a rapid pace of growth, total health expenditure per capita in Korea increased to \$2,870 in 2017.
- Health spending growth has continued to be strong in Korea in recent years mainly with introduction and expansion of long-term care insurance in Korea.

Health Expenditure Per Capita



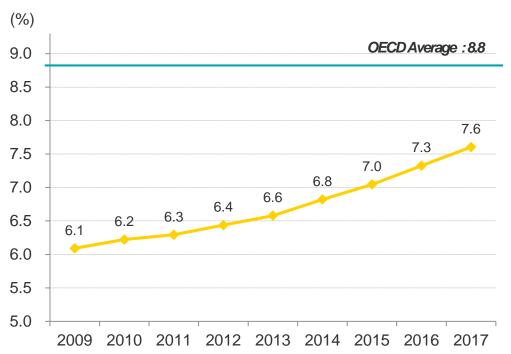
The ranking of 10 most active countries among OECD members in clinical trials (2017)			
Rank	Country	/capita, US\$ purchasing power parity	
1	US	10,207	
2	Germany	5,848	
3	France	4,931	
4	Canada	4,812	
5	Japan	4,630	
6	UK	3,943	
7	Italy	3,376	
8	Spain	3,224	
9	Korea	2,870	
-	China	-	

2.3. Health Care Expenditure

(2) Trends of Domestic Health Expenditures

Domestic health care expenditure accounted for 7.6% of GDP in Korea in 2017.





The ranking of 10 most active countries among OECD members in clinical trials (2017)				
Rank	Country	% gross domestic product		
1	US	17.1		
2	France	11.3		
3	Germany	11.2		
4	Japan	10.9		
5	Canada	10.7		
6	UK	9.6		
7	Spain	8.9		
8	Italy	8.8		
9	Korea	7.6		
-	China	-		