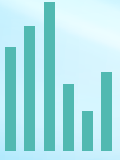




Republic of Turkey
Ministry of Health



HEALTH STATISTICS YEARBOOK 2013



GENERAL DIRECTORATE of HEALTH RESEARCH



**THE MINISTRY of HEALTH of TURKEY
HEALTH STATISTICS YEARBOOK
2013**

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HEALTH STATISTICS YEARBOOK
2013

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NOMENCLATURE of TERRITORIAL UNITS FOR STATISTICS and PROVINCES

Mediterranean	Antalya	Aegean	İzmir
	Burdur		Aydın
	Isparta		Denizli
	Adana		Muğla
	İçel		Afyonkarahisar
	Hatay		Kütahya
	Kahramanmaraş		Manisa
	Osmaniye		Uşak
Western Anatolia	Ankara	Southeastern Anatolia	Adıyaman
	Karaman		Gaziantep
	Konya		Kilis
Western Blacksea	Bartın	Istanbul	Diyarbakır
	Karabük		Şanlıurfa
	Zonguldak		Batman
	Çankırı		Mardin
	Kastamonu		Siirt
	Sinop		Şırnak
	Amasya		Istanbul
	Çorum		Northeastern Anatolia
Samsun	Erzincan		
Western Marmara	Tokat	Erzurum	
	Edirne	Ağrı	
	Kırklareli	Ardahan	
	Tekirdağ	Iğdır	
	Balıkesir	Kars	
Eastern Blacksea	Çanakkale	Mideastern Anatolia	Bingöl
	Artvin		Elazığ
	Giresun		Malatya
	Gümüşhane		Tunceli
	Ordu		Bitlis
	Rize		Hakkâri
	Trabzon		Muş
			Van
Eastern Marmara	Bilecik	Central Anatolia	Aksaray
	Bursa		Kırıkkale
	Eskişehir		Kırşehir
	Bolu		Nevşehir
	Düzce		Niğde
	Kocaeli		Kayseri
	Sakarya		Sivas
Yalova	Yozgat		

ACRONYMS

ABPRS	: Address Based Population Registration System
BCG	: Bacillus Calmette-Guerin Vaccination
BHSM	: Basic Health Statistics Module
BMI	: Body Mass Index
Cm	: Centimeter
CPI	: Consumer Price Index
CPV	: Conjugated Pneumococcal Vaccination
CT	: Computerized Tomography
DaPT	: Diphtheria acellular Pertussis Tetanus Vaccination
ECO	: Echocardiography
ESPC	: Evaluation Selection and Placement Center
EU	: European Union
EUROSTAT	: Office of European Statistics
GD-MCHFP	: General Directorate of Mother-Child Health and Family Planning
GDP	: Gross Domestic Product
HBV	: Hepatitis B Vaccination
HFA	: Health for All
Hib	: Haemophilus Influenza Type B Vaccination
ICD-10	: International Classification of Diseases
IPV	: Inactive Polio Vaccination
KETEM	: Cancer Early Diagnosis, Screening and Training Centers
Kg	: Kilogram
MMR	: Measles Mumps Rubella Vaccination
MoND	: Ministry of National Defense
MoH	: Ministry of Health
MRI	: Magnetic Resonance Imaging
NUTS	: Nomenclature of Territorial Units for Statistics
OECD	: The Organisation for Economic Cooperation and Development
PPP	: Purchasing Power Parity
SSI	: Social Security Institution
SII	: Social Insurance Institution
TDHS	: Turkey Demographic and Health Survey
₺	: Turkish Lira
TURKSTAT	: Turkish Statistical Institute
WHO	: World Health Organization

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General Explanations

While the values of the indicators in the Health Statistics Yearbook 2013 were calculated, international definitions and standards have been used and were revised in accordance with these definitions and standards..

Please find the information in detail in the fact sheet at the end of the chapters..

The international data on all partitions (except Turkey) are taken from the following four sources;

1. Online database of the World Health Organization Headquarters in Geneva, “Global Health Observatory” (<http://www.who.int/gho/en/>), which contains data on 194 countries. Unlike the database of WHO European Region Office (Health for All-HFA, <http://data.euro.who.int/hfad/>) not the data declared by countries but projections by the WHO are included. In order to make comparisons between countries, projected data for countries are included.
2. The World Health Organization, “World Health Statistics” report (http://www.who.int/gho/publications/world_health_statistics/en/index.html), is distributed to the World Health Assembly in May of each year. The data included in the report are the data in the Global Health Observatory database. The most recent data in the report are belong to 2 years prior to the publication. The data for countries specified in the “World Health Statistics 2014 “report belong to 2012 or the latest available data for 194 countries.
3. The OECD online database, the data included in the “OECD Health Data” are based on the information provided by countries. Thus, there can be incompatibilities between OECD database and WHO database. Health expenditures data are obtained particularly from the OECD Health Data. The most recent data in the database belongs to two years ago. Newest available data for countries specified in the “OECD Health Data 2014 “ belong to 2012 or the latest available data for the countries included.
4. “OECD Health at a Glance”, is a report based on the analysis of the data in the OECD Health Data

International comparison of the regions and countries that are included are as follows;

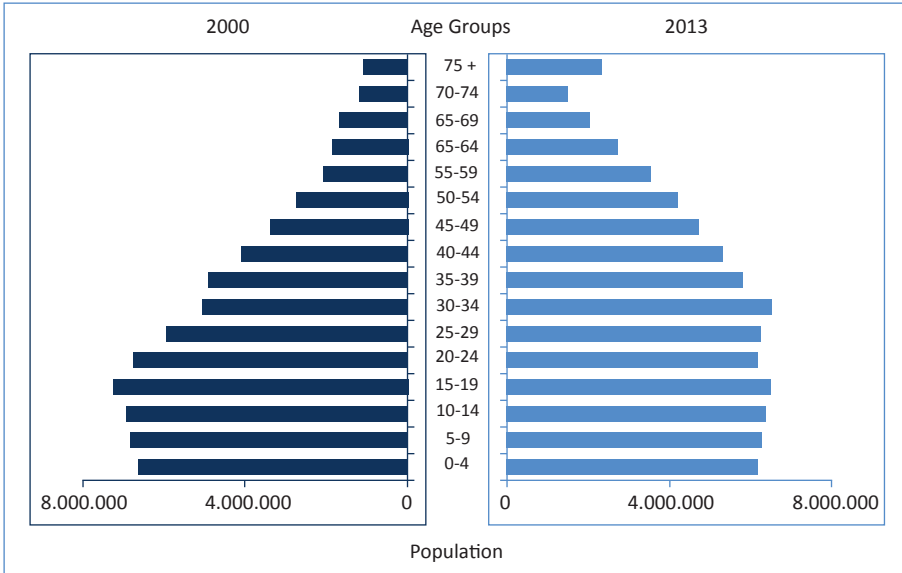
- 1. WHO/Europe:** Albania, Andorra, Armenia, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Malta, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Republic of Moldova, Romania, Russian Federation, San Marino, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, The former Yugoslav Republic of Macedonia, Turkey, Turkmenistan, Ukraine, United Kingdom, Uzbekistan
- 2. Upper-Middle-Income Countries (Countries with GDP per capita between \$ 4,126 and \$ 12,475):** Albania, Algeria, Angola, Argentina, Azerbaijan, Belarus, Belize, Bosnia and Herzegovina, Botswana, Brazil, Bulgaria, China, Colombia, Cook Islands, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, Fiji, Gabon, Grenada, Hungary, Iran (Islamic Republic of), Iraq, Jamaica, Jordan, Kazakhstan, Lebanon, Libya, Malaysia, Maldives, Marshall Islands, Mauritius, Mexico, Montenegro, Namibia, Nauru, Niue, Palau, Panama, Peru, Romania, Saint Lucia, Saint Vincent and the Grenadines, Serbia, Seychelles, South Africa, Suriname, Thailand, The former Yugoslav Republic of Macedonia, Tonga, Tunisia, Turkey, Turkmenistan, Tuvalu, Venezuela (Bolivarian Republic of)
- 3. High-Income Countries (Countries with GDP per capita above 12,476):** Andorra, Antigua and Barbuda, Australia, Austria, Bahamas, Bahrain, Barbados, Belgium, Brunei Darussalam, Canada, Chile, Croatia, Cyprus, Czech Republic, Denmark, Equatorial Guinea, Estonia, Finland, France, Germany, Greece, Iceland, Ireland, Israel, Italy, Japan, Kuwait, Latvia, Lithuania, Luxembourg, Malta, Monaco, Netherlands, New Zealand, Norway, Oman, Poland, Portugal, Qatar, Republic of Korea, Russian Federation, Saint Kitts and Nevis, San Marino, Saudi Arabia, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, Trinidad and Tobago, United Arab Emirates, United Kingdom, United States of America, Uruguay
- 4. European Union:** Germany, Austria, Belgium, United Kingdom, Bulgaria, the Czech Republic, Denmark, Estonia, Finland, France, Cyprus, the Netherlands, Croatia, Ireland, Spain, Sweden, Italy, Latvia, Lithuania, Luxembourg, Hungary, Malta, Poland, Portugal, Romania, Slovakia, Slovenia, Greece



Chapter 1

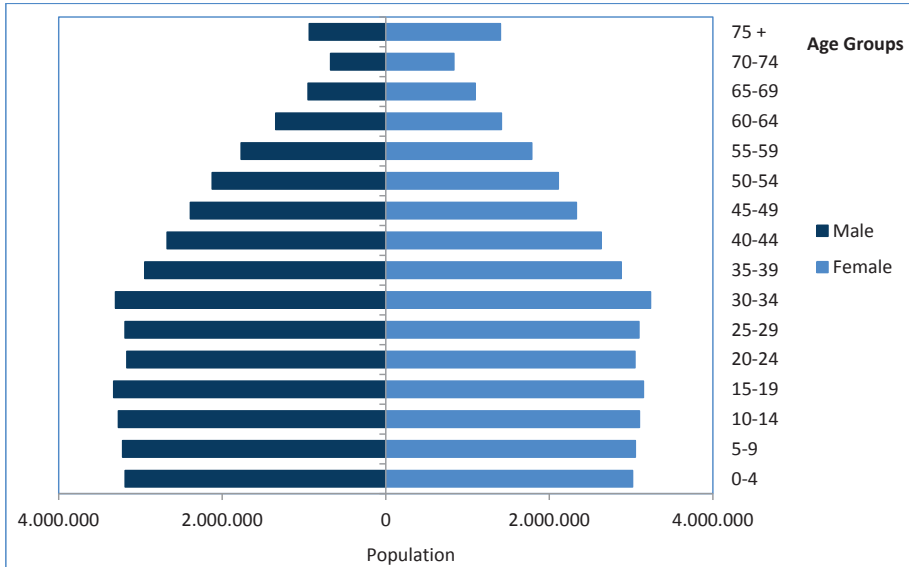
General Demographic Indicators

Figure 1.1. Population Pyramid, Total, Turkey, 2000, 2013



Source: TURKSTAT

Figure 1.2. Population Pyramid, Turkey, 2013



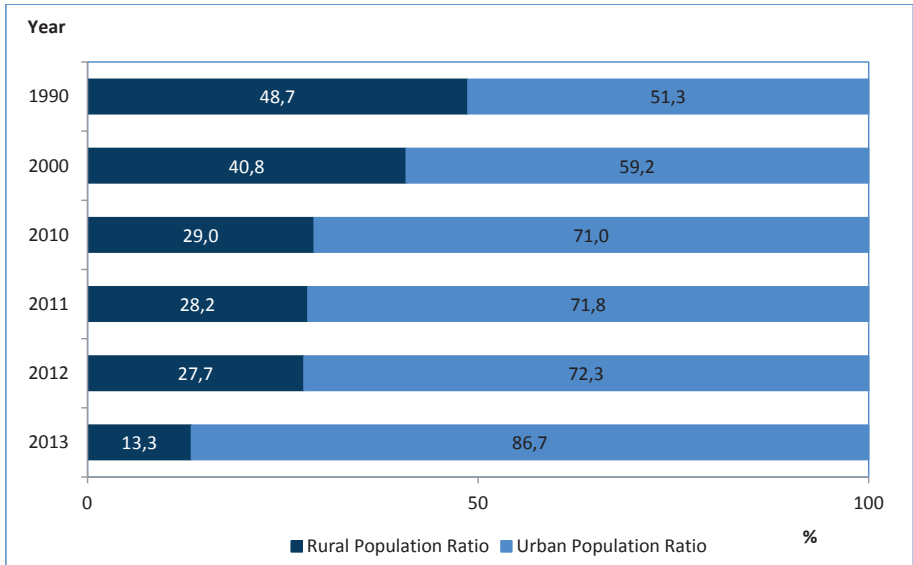
Source: TURKSTAT

Table 1.1. General Demographic Indicators, Turkey

	1990	2000	2010	2011	2012	2013
Total Population	56.473.035	67.803.927	73.722.988	74.724.269	75.627.384	76.667.864
Rural Population Ratio (%)	48,7	40,8	29,0	28,2	27,7	13,3
Urban Population Ratio (%)	51,3	59,2	71,0	71,8	72,3	86,7
0-14 Aged Population Ratio (%)	35,0	29,8	25,6	25,3	24,9	24,6
65 and 65+ Aged Population Ratio (%)	4,3	5,7	7,2	7,3	7,5	7,7
Youth Dependency Ratio (Age 0-14) (%)	57,6	46,3	38,1	37,5	36,9	36,3
Elderly Dependency Ratio (Aged 65 and Over) (%)	7,0	8,8	10,8	10,9	11,1	11,3
Total Age Dependency Ratio (%)	64,7	55,1	48,9	48,4	48,0	47,6
Annual Population Growth Rate (‰)	21,7	18,3	15,9	13,5	12,0	13,7
Crude Birth Rate (‰)	24,1	21,6	17,2	16,8	17,1	16,9
Crude Death Rate (‰)	7,1	7,3	5,0	5,1	5,0	4,9
Total Fertility Rate (per Woman)	2,9	2,5	2,1	2,0	2,1	2,1

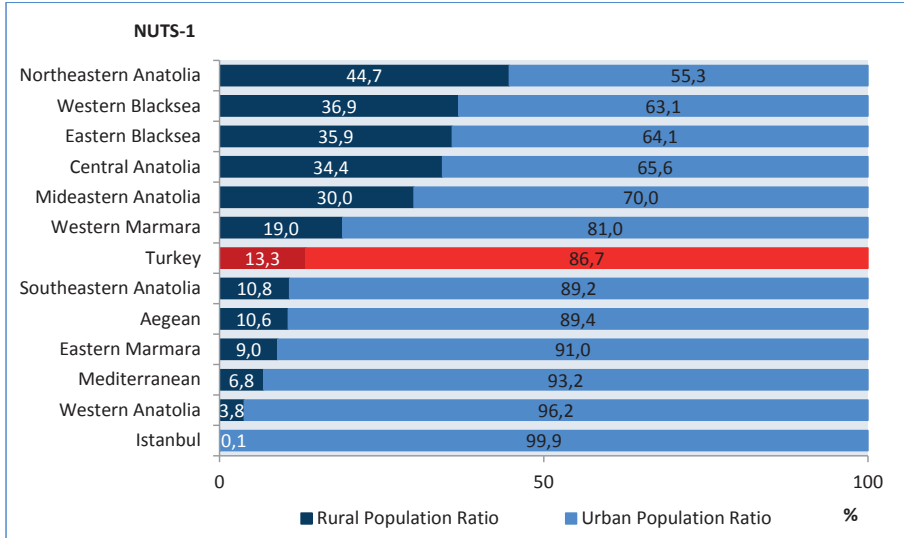
Source: TURKSTAT

Figure 1.3. Urban and Rural Population by Years, (%), Turkey



Source: TURKSTAT

Figure 1.4. Rural and Urban Population Ratios by NUTS-1, (%), 2013



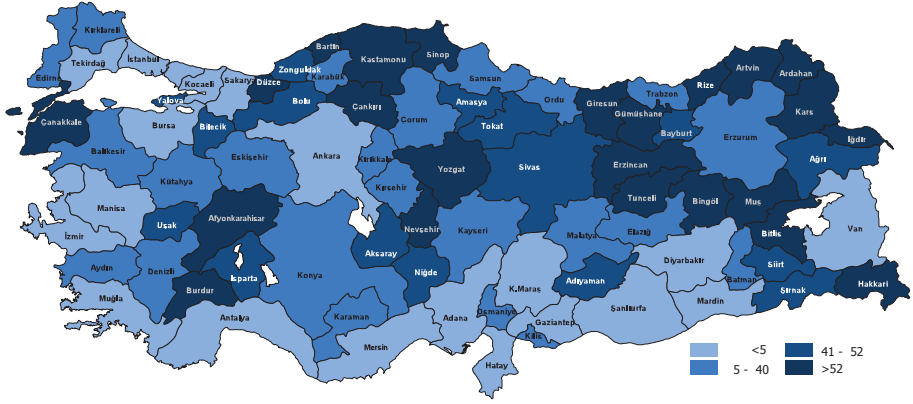
Source: TURKSTAT

Map 1.1. Urban Population Ratios by Provinces, (%), 2013



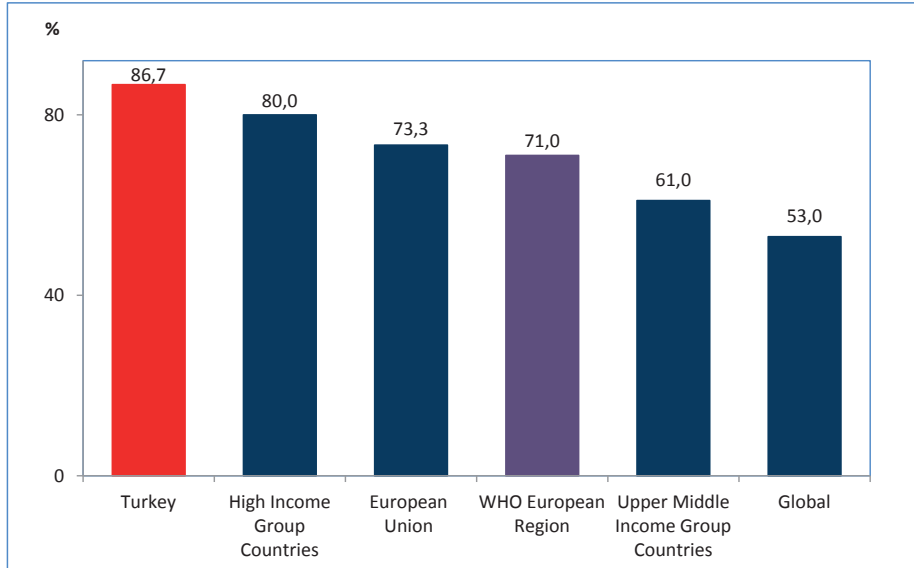
Source: TURKSTAT

Map 1.2. Rural Population Ratios by Provinces, (%), 2013



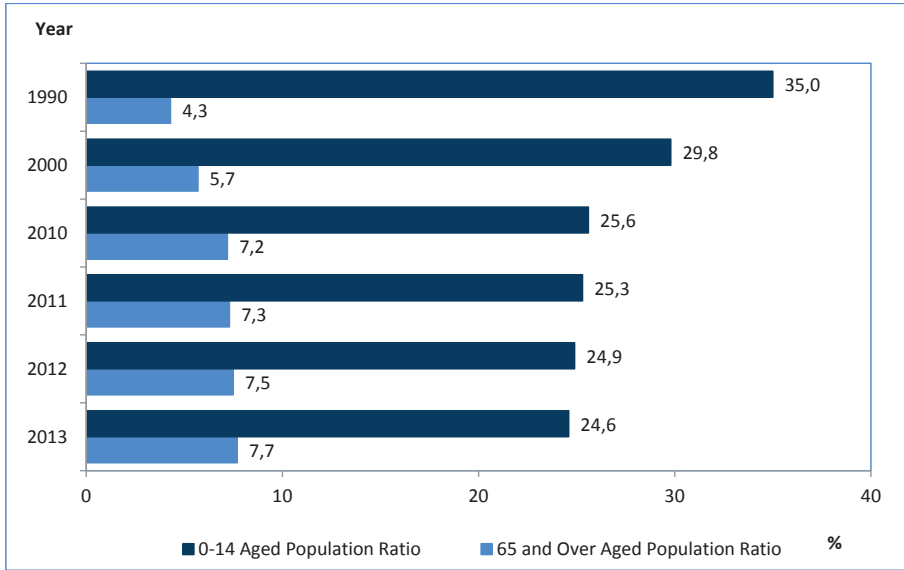
Source: TURKSTAT

Figure 1.5. International Comparison of Urban Population Ratios, (%), 2012



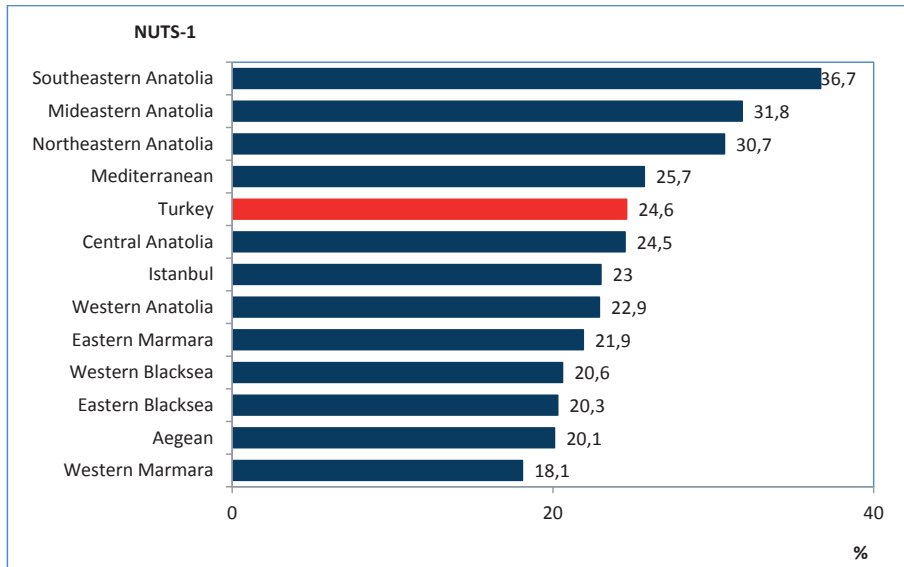
Source: TURKSTAT, WHO World Health Statistics 2014
 Note: Turkey's data belongs to 2013.

Figure 1.6. 0-14 Aged, 65 and Over Aged Population Ratios by Years, (%), Turkey



Source: TURKSTAT

Figure 1.7. 0-14 Aged, Population Ratios by NUTS-1, (%), 2013



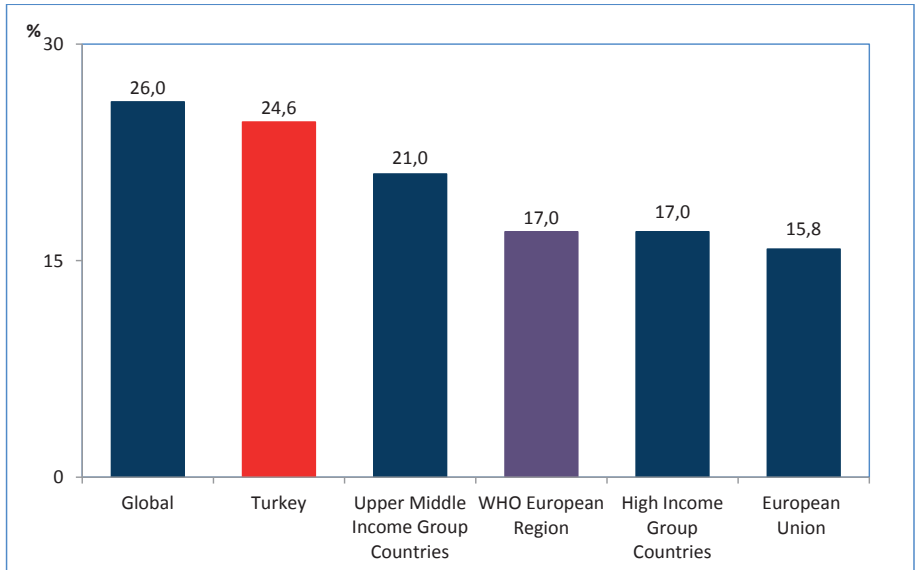
Source: TURKSTAT

Map 1.3. 0-14 Aged Population Ratios by Years, (%), 2013



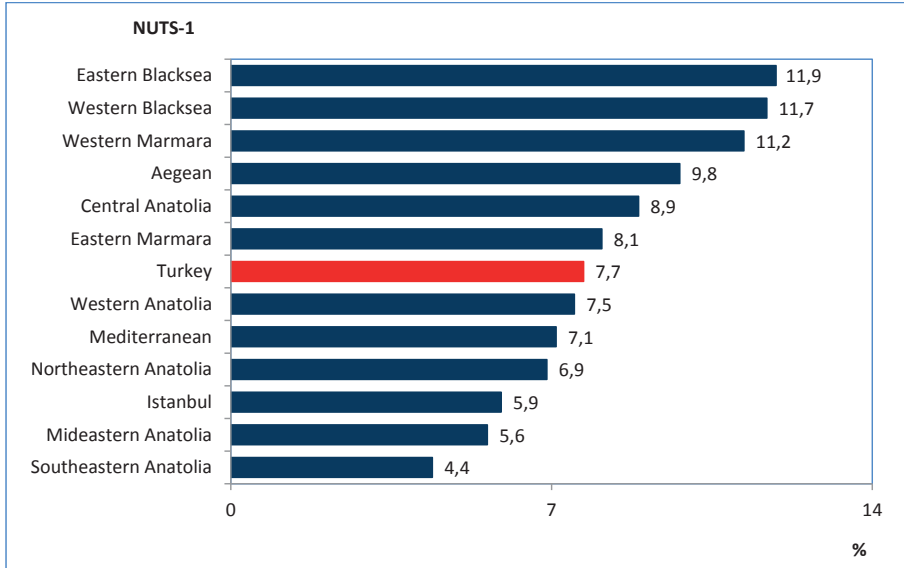
Source: TURKSTAT

Figure 1.8. International Comparison of 0-14 Aged Population Ratios, (%), 2012



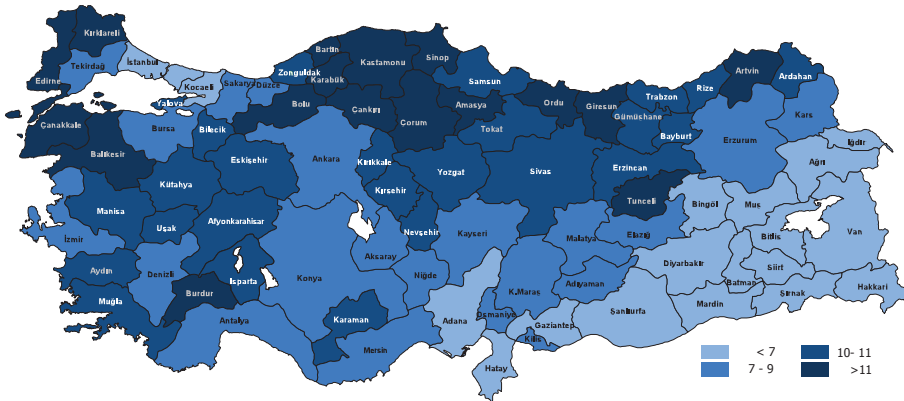
Source: TURKSTAT, WHO World Health Statistics 2014
 Note: Turkey's data belongs to 2013.

Figure 1.9. 65 and Over Aged Population Ratios by NUTS-1, (%), 2013



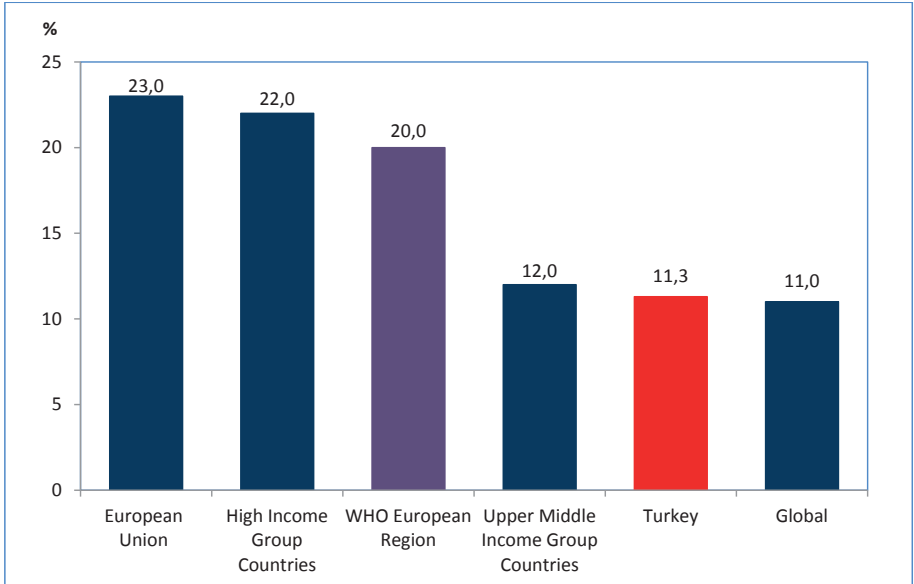
Source: TURKSTAT

Map 1.4. 65 and Over Aged Population Ratios by Provinces, (%), 2013



Source: TURKSTAT

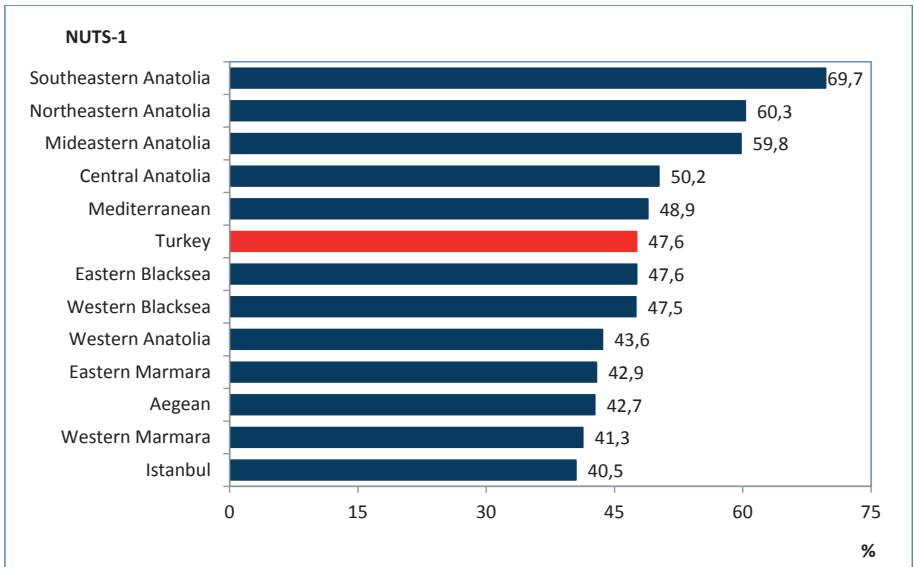
Figure 1.10. International Comparison of 60 and Over Aged Population Ratios, (%), 2012



Source: TURKSTAT, WHO World Health Statistics 2014

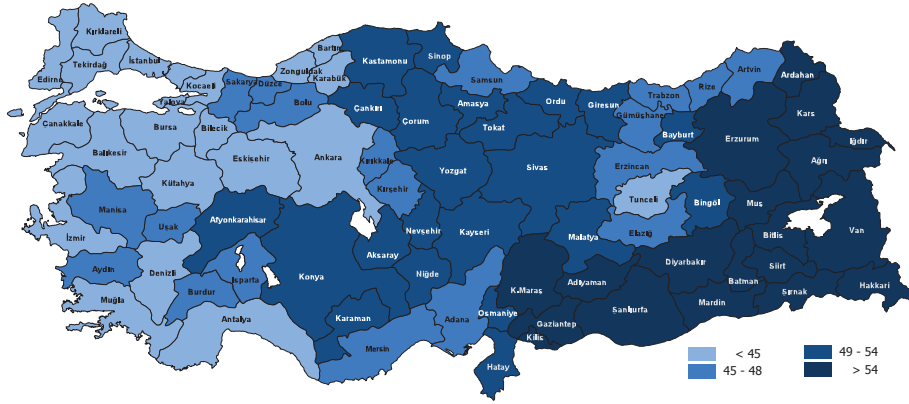
Note: Turkey's data belongs to 2013.

Figure 1.11. Total Age Dependency Ratios by NUTS-1, (%), 2013



Source: TURKSTAT

Map 1. 5. Total Age Dependency Ratios by Provinces, (%), 2013



Source: TURKSTAT

Table 1.2. Some General Demographic Indicators by Provinces, 2013

City	Total Population	Rural Population Ratio (%)	Urban Population Ratio (%)	0-14 Aged Population Ratio (%)	65 and Over Aged Population Ratio (%)	Youth Dependency Ratio (Age 0-14) (%)	Elderly Dependency Ratio (Aged 65 and Over) (%)	Total Age Dependency Ratio (%)
Adana	2.149.260	4,1	95,9	26,3	6,4	39	9,4	48,4
Adıyaman	597.184	41,5	58,5	30,3	6,5	48,1	10,3	58,4
Afyonkarahisar	707.123	58,7	41,3	23,4	9,6	34,9	14,4	49,3
Ağrı	551.177	51,6	48,4	39,1	3,8	68,6	6,7	75,3
Amasya	321.977	41,7	58,3	20,3	12,8	30,4	19,1	49,5
Ankara	5.045.083	0,9	99,1	21,7	7,2	30,5	10,1	40,6
Antalya	2.158.265	1,1	98,9	22,9	7	32,6	10,0	42,6
Artvin	169.334	85,1	14,9	18,3	14	27	20,7	47,7
Aydın	1.020.957	5,6	94,4	19,8	11,2	28,6	16,2	44,8
Balıkesir	1.162.761	4,7	95,3	17,7	12,8	25,5	18,4	44,0
Bilecik	208.888	43,9	56,1	19,2	10,4	27,2	14,7	41,9
Bingöl	265.514	62,6	37,4	28,8	5,8	44,1	8,9	53,0
Bitlis	337.156	53,6	46,4	36,5	4,2	61,6	7,2	68,8
Bolu	283.496	42,1	57,9	18,9	12,2	27,3	17,7	45,1
Burdur	257.267	54,6	45,4	18,7	13,3	27,5	19,6	47,1
Bursa	2.740.970	1,2	98,8	22,2	7,9	31,7	11,2	42,9
Çanakkale	502.328	56,3	43,7	16,2	12,9	22,8	18,2	41,1
Çankırı	190.909	61,0	39,0	19,1	14,3	28,6	21,4	50,1
Çorum	532.080	40,3	59,7	21,2	12,6	32	19,0	51,0
Denizli	963.464	9,8	90,2	21,3	9,4	30,7	13,6	44,3
Diyarbakır	1.607.437	2,9	97,1	35,4	4,2	58,6	7,0	65,6
Edirne	398.582	37,2	62,8	15,9	12	22	16,6	38,6
Elazığ	568.239	37,3	62,7	24,1	8,3	35,7	12,3	48,1
Erzincan	219.996	55,9	44,1	21,1	10,9	31	16,0	47,0
Erzurum	766.729	14,0	86,0	28,6	7,5	44,8	11,7	56,6
Eskişehir	799.724	11,5	88,5	18,1	10	25,1	13,9	39,0
Gaziantep	1.844.438	0,6	99,4	34,0	4,8	55,6	7,8	63,4
Giresun	425.007	66,7	33,3	18,7	14,2	27,8	21,1	48,9
Gümüşhane	141.412	74,6	25,4	20,3	11,4	29,8	16,7	46,5
Hakkari	273.041	53,9	46,1	34,5	2,8	55,1	4,5	59,6
Hatay	1.503.066	0,9	99,1	29,1	6,1	44,9	9,4	54,3
Isparta	417.774	46,8	53,2	19,9	10,9	28,7	15,8	44,5
Mersin	1.705.774	1,2	98,8	24,6	7,5	36,3	11,0	47,3
İstanbul	14.160.467	0,1	99,9	23,0	5,9	32,3	8,2	40,5
İzmir	4.061.074	0,5	99,5	19,3	9,3	27	13,0	40,0
Kars	300.874	74,2	25,8	30,2	7,1	48,3	11,4	59,6
Kastamonu	368.093	65,6	34,4	17,8	15,7	26,9	23,7	50,5
Kayseri	1.295.355	5,6	94,4	26,0	7,3	39	10,9	49,9
Kırklareli	340.559	40,4	59,6	16,3	11,8	22,6	16,4	39,1
Kırşehir	223.498	37,4	62,6	20,9	10,1	30,3	14,7	45,0
Kocaeli	1.676.202	0,0	100,0	23,9	6,1	34,2	8,8	42,9

Source: TURKSTAT

Table 1.2. Some General Demographic Indicators by Provinces, 2013- Continued

City	Total Population	Rural Population Ratio (%)	Urban Population Ratio (%)	0-14 Aged Population Ratio (%)	65 and Over Aged Population Ratio (%)	Youth Dependency Ratio (Age 0-14) (%)	Elderly Dependency Ratio (Aged 65 and Over) (%)	Total Age Dependency Ratio (%)
Konya	2.079.225	6,6	93,4	25,6	7,9	38,6	11,9	50,5
Kütahya	572.059	40,2	59,8	18,7	11	26,7	15,6	42,3
Malatya	762.538	9,6	90,4	24,8	8,6	37,3	13,0	50,3
Manisa	1.359.463	3,4	96,6	21,1	9,7	30,4	14,1	44,5
Kahramanmaraş	1.075.706	2,5	97,5	30,3	6,8	48,2	10,8	59,0
Mardin	779.738	4,1	95,9	36,6	4,9	62,5	8,4	70,9
Muğla	866.665	3,3	96,7	19,5	10,4	27,7	14,8	42,5
Muş	412.553	68,5	31,5	38,4	4	66,6	6,9	73,5
Nevşehir	285.460	60,0	40,0	23,0	10	34,4	14,9	49,3
Niğde	343.658	51,9	48,1	26,3	8,7	40,5	13,3	53,8
Ordu	731.452	16,4	83,6	21,1	12	31,6	17,9	49,5
Rize	328.205	53,0	47,0	20,3	10,9	29,5	15,8	45,3
Sakarya	917.373	3,7	96,3	22,6	8,3	32,8	12,0	44,7
Samsun	1.261.810	5,0	95,0	22,0	9,7	32,3	14,2	46,5
Siirt	314.153	46,9	53,1	38,5	4,2	67,1	7,4	74,6
Sinop	204.568	68,4	31,6	18,5	16,7	28,6	25,8	54,3
Sivas	623.824	46,1	53,9	23,3	10,7	35,3	16,2	51,5
Tekirdağ	874.475	0,0	100,0	21,2	7,5	29,8	10,5	40,3
Tokat	598.708	45,9	54,1	22,2	11,3	33,5	17,0	50,5
Trabzon	758.237	11,7	88,3	20,9	10,7	30,6	15,7	46,3
Tunceli	85.428	63,7	36,3	14,9	12	20,5	16,4	36,9
Şanlıurfa	1.801.980	0,0	100,0	41,2	3,5	74,4	6,4	80,8
Uşak	346.508	44,5	55,5	20,3	10,6	29,3	15,3	44,6
Van	1.070.113	1,6	98,4	38,2	3,2	65,4	5,6	70,9
Yozgat	444.211	58,8	41,2	23,6	10,4	35,8	15,8	51,6
Zonguldak	601.567	45,2	54,8	19,9	9,5	28,2	13,5	41,7
Aksaray	382.806	50,4	49,6	26,8	7,5	40,8	11,5	52,3
Bayburt	75.620	52,0	48,0	23,5	10,1	35,4	15,2	50,6
Karaman	237.939	39,4	60,6	24,0	9,5	36,1	14,2	50,3
Kırıkkale	274.658	31,7	68,3	20,9	10	30,2	14,4	44,6
Batman	547.581	28,4	71,6	38,0	3,9	65,4	6,7	72,1
Şırnak	475.255	40,8	59,2	41,5	3	74,7	5,3	80,0
Bartın	189.139	67,6	32,4	18,5	12	26,7	17,3	44,0
Ardahan	102.782	100,0	0,0	24,4	11,3	37,8	17,5	55,3
İğdır	190.424	55,9	44,1	32,6	5,4	52,5	8,7	61,2
Yalova	220.122	41,6	58,4	19,9	10,3	28,5	14,8	43,3
Karabük	230.251	33,5	66,5	17,7	11,7	25	16,5	41,5
Kilis	128.586	30,5	69,5	29,7	7,7	47,4	12,3	59,7
Osmaniye	498.981	31,5	68,5	28,4	6,7	43,8	10,3	54,0
Düzce	351.509	52,7	47,3	22,5	8,7	32,6	12,6	45,2
Turkey	76.667.864	13,3	86,7	24,6	7,7	36,3	11,3	47,6

Source: TURKSTAT

Explanations for Chapter 1

- ☑ Population data for 1990 and 2000 were taken from the “General Census” results, and the 2010, 2011, 2012, 2013 and population data from the Address Based Population Registration System (ABPRS).
- ☑ The value of the provinces was rounded up to the closest whole number while making the maps in the Section. These whole numbers were taken into account while making the likert scales.
- ☑ With the significant effect of establishment of metropolitan municipalities in 14 provinces and in 30 cities with the metropolitan status, towns and villages added to the district municipalities as quarter /neighborhood there was an increase in the urban population.

The definitions of the indicators in Section 1 are as follows:

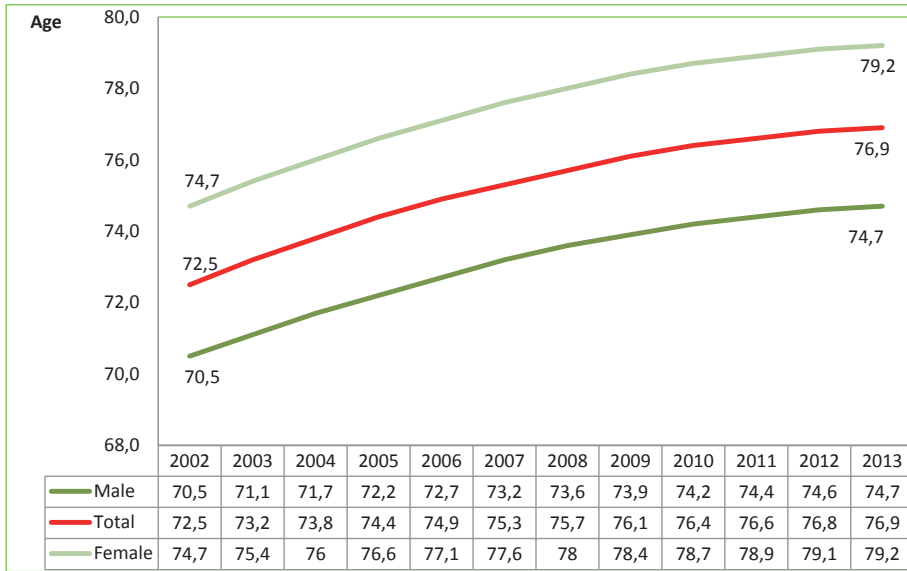
Rural Population Ratio (%)	:	The ratio of the population living in settlements with a population of 20.000 and below to the total population.
Urban Population Ratio (%)	:	The ratio of the population living in settlements with a population of 20.001 and above to the total population.
0-14 Aged Population Ratio (%)	:	It is the ratio of the 0-14 aged population to the total population.
65 and Over Aged Population Ratio (%)	:	It is the ratio of the 65+ aged population to the total population.
Youth Dependency Ratio (0-14 Age) (%)	:	It is the ratio of younger dependents (aged 0-14) to the working-age population (from 15 to 64).
Elderly Dependency Ratio (Aged 65 and Over) (%)	:	It is the ratio of old age dependents (aged 65 and over) to the working-age population (from 15 to 64).
Total Age Dependency Ratio (%)	:	It is the ratio of total dependents (aged 0-14 and aged 65 and over) to the working-age population (from 15 to 64).
Crude Birth Rate:	:	It indicates the number of live births occurring during the year, per 1.000 population estimated.
Crude Death Rate	:	It indicates the number of deaths occurring during the year, per 1.000 population estimated.
Total Fertility Rate	:	It represents the number of children that would be born to a woman if she were to live to the end of her childbearing years (from 15 to 49) and bear children in accordance with current age-specific fertility rates.



Chapter 2

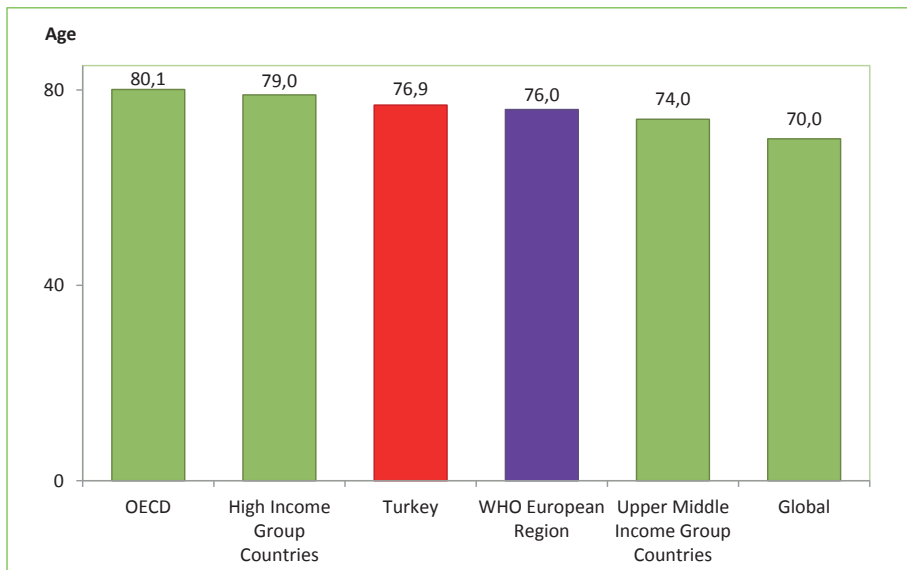
Mortality

Figure 2.1. Life Expectancy at Birth, by Years and Sex, (Year), Turkey



Source: TURKSTAT

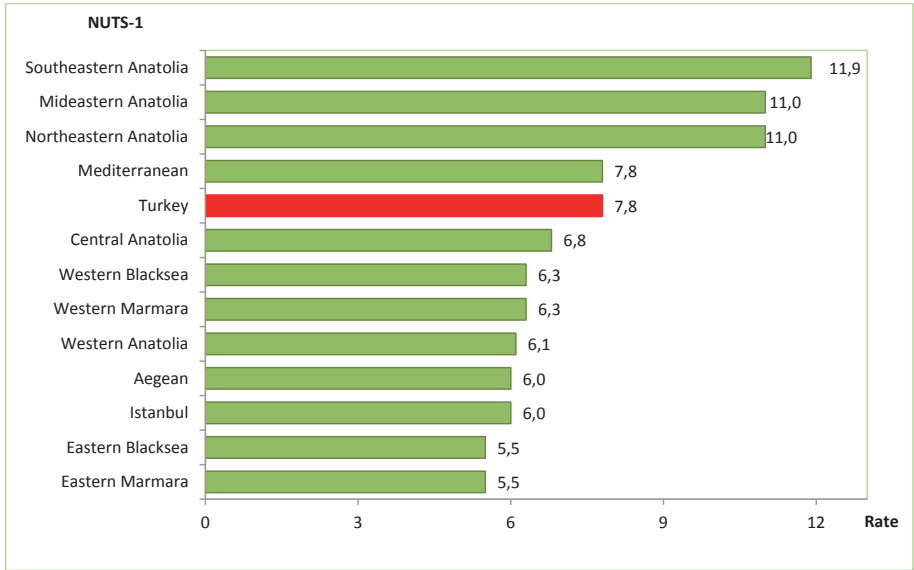
Figure 2.2. International Comparison of Life Expectancy at Birth, 2012



Source: TURKSTAT, OECD Health Data 2013, WHO World Health Statistics 2014

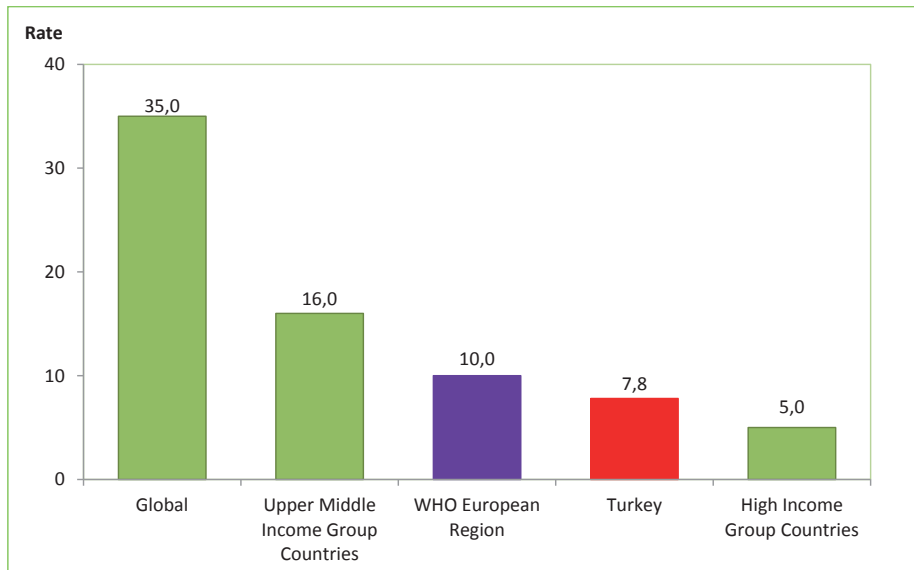
Note: Turkey's data belongs to the year 2013.

Figure 2.3. Infant Mortality Rate by NUTS-1, (per 1.000 Live Births), 2013



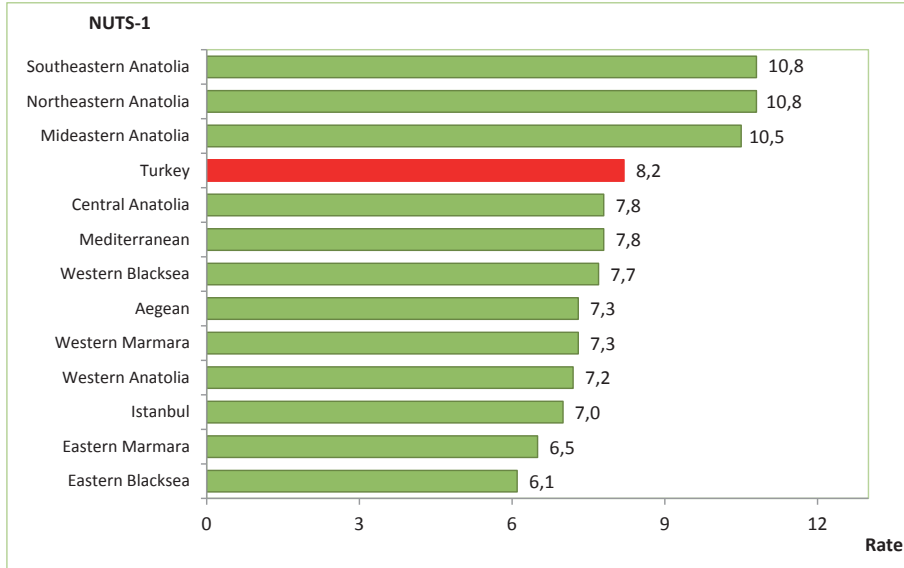
Source: Public Health Institution of Turkey

Figure 2.4. International Comparison of Infant Mortality Rate, (per 1.000 Live Births), 2012



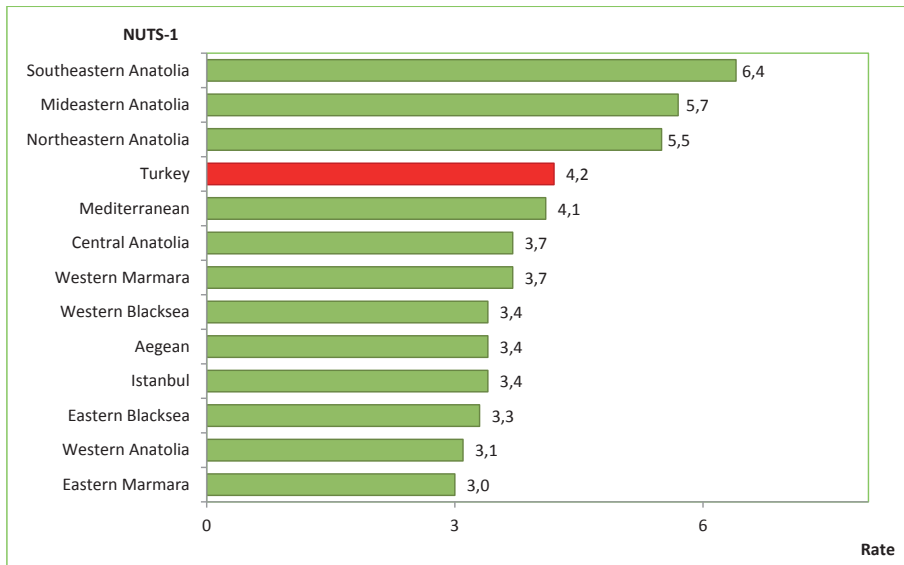
Source: WHO World Health Statistics 2014, Public Health Institution of Turkey
 Note: Turkey's data belongs to the year 2013.

Figure 2.5. Perinatal Mortality Rate by NUTS-1, (per 1.000 Births), 2013



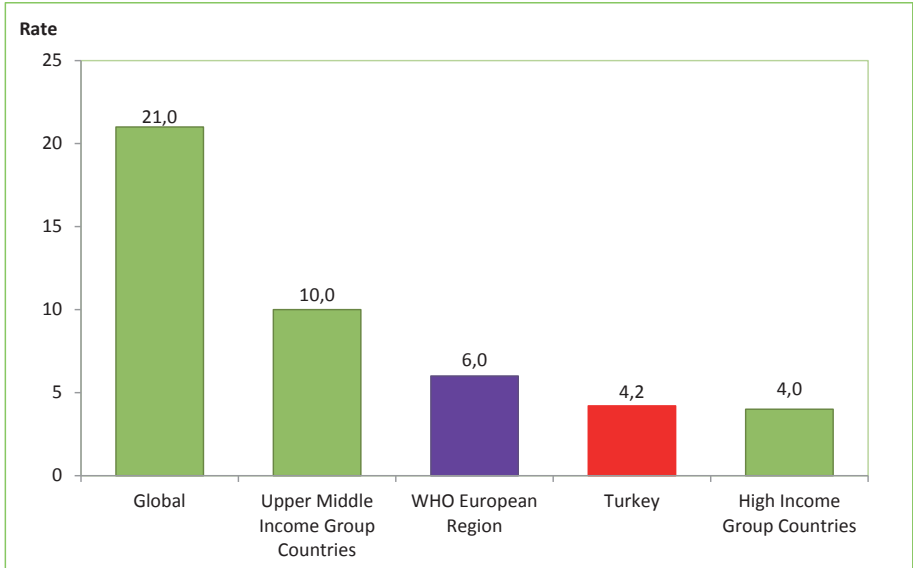
Source: Public Health Institution of Turkey

Figure 2.6. Neonatal Mortality Rate by NUTS-1, (per 1.000 Live Births), 2013



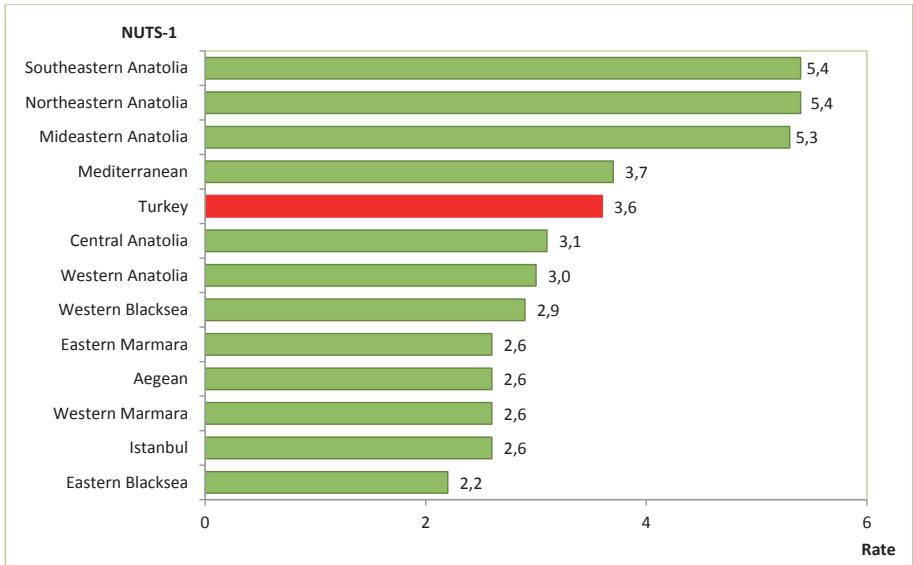
Source: Public Health Institution of Turkey

Figure 2.7. International Comparison of Neonatal Mortality Rate, (per 1.000 Live Births), 2012



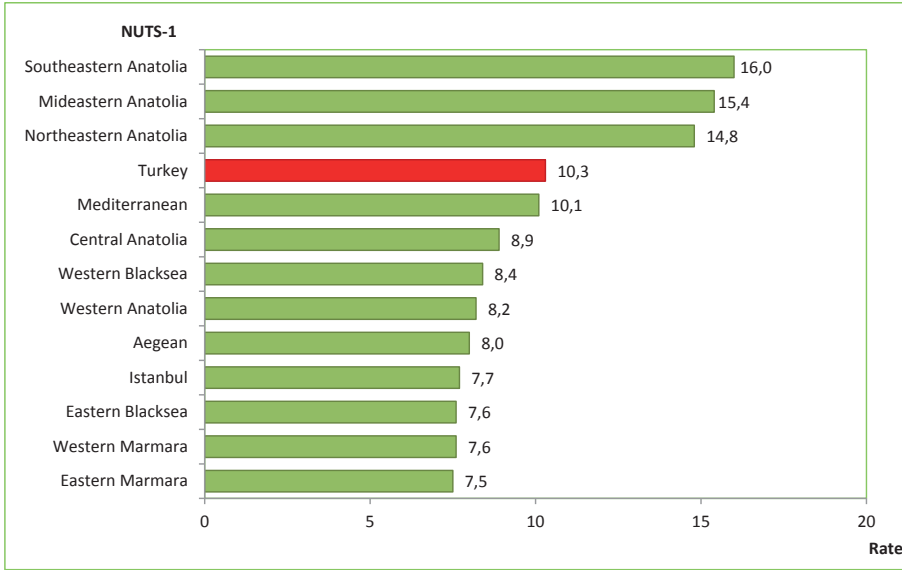
Source: WHO World Health Statistics 2014, Public Health Institution of Turkey
 Note: Turkey's data belongs to the year 2013.

Figure 2.8. Postneonatal Mortality Rate by NUTS-1, (per 1.000 Live Births), 2013



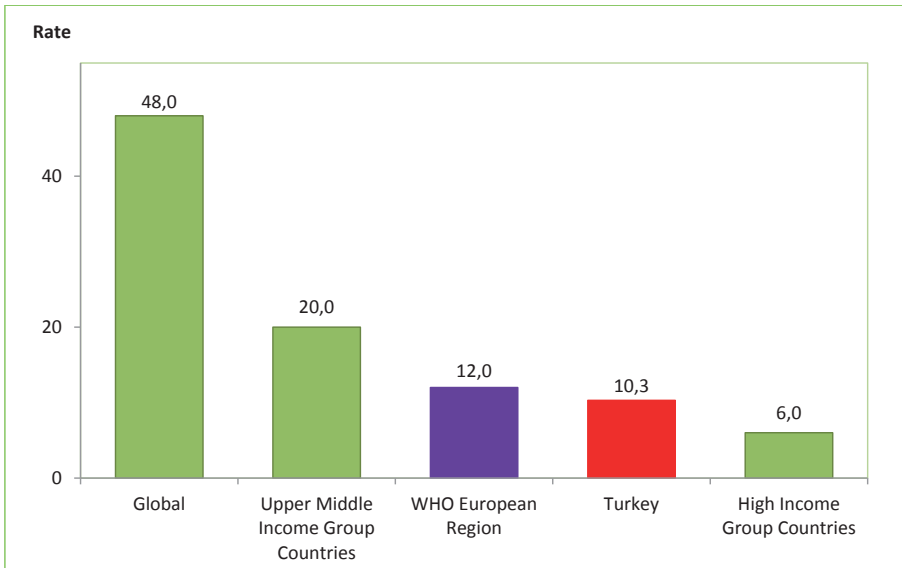
Source: Public Health Institution of Turkey

Figure 2.9. Under-5 Mortality Rate by NUTS-1, (per 1.000 Live Births), 2013



Source: Public Health Institution of Turkey

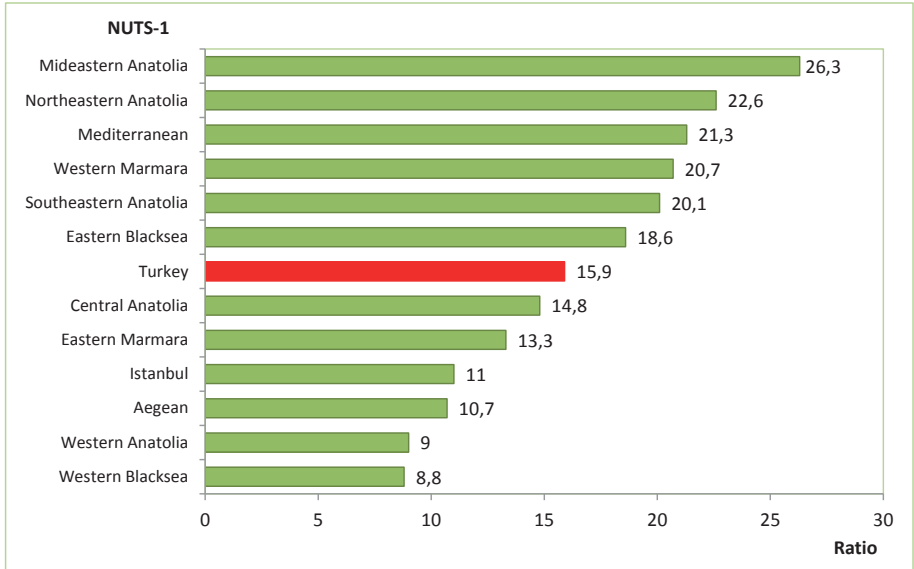
Figure 2.10. International Comparison of Under-5 Mortality Rate, (per 1.000 Live Births), 2012



Source: WHO World Health Statistics 2014, Public Health Institution of Turkey

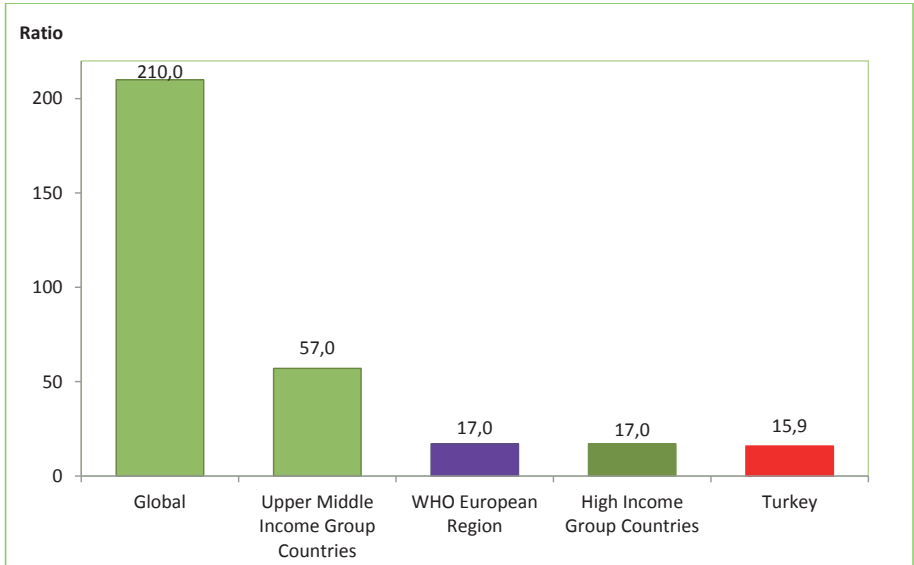
Note: Turkey's data belongs to the year 2013.

Figure 2.11. Maternal Mortality Ratio by NUTS-1, (per 100.000 Live Births), 2013



Source: Public Health Institution of Turkey

Figure 2.12. International Comparison of Maternal Mortality Ratio, (per 100.000 Live Births), 2013



Source: WHO World Health Statistics 2014, Public Health Institution of Turkey

Table 2.1. Distribution of Causes of Death by the ICD-10 Main Diagnosis Codes and Sex, (%), Turkey, 2011, 2012, 2013

ICD-10 Diagnosis Codes	Code	2011			2012			2013		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Certain Infectious and Parasitic Diseases	A00-B99	1,56	1,60	1,57	1,61	1,75	1,67	1,74	1,81	1,77
Neoplasms	C00-D48	25,48	16,86	21,60	25,53	16,79	21,58	25,27	16,49	21,32
Diseases of the Blood and Bloodforming Organs and Certain Disorders Involving the Immune Mechanism	D50-D89	0,37	0,53	0,44	0,36	0,51	0,43	0,35	0,50	0,42
Endocrine, Nutritional and Metabolic Diseases	E00-E90	4,81	8,09	6,29	4,65	7,65	6,00	4,34	7,15	5,60
Mental and Behavioural Disorders	F00-F99	0,15	0,18	0,16	0,20	0,19	0,20	0,14	0,17	0,16
Diseases of the Nervous System and Sense Organs	G00-H95	3,22	4,34	3,72	3,60	5,13	4,29	3,44	4,91	4,10
Diseases of the Circulatory System	I00-I99	35,03	43,41	38,80	34,41	42,21	37,93	35,83	44,61	39,78
Diseases of the Respiratory System	J00-J99	11,20	8,65	10,05	10,67	8,44	9,67	10,71	8,75	9,83
Diseases of the Digestive System	K00-K93	2,47	2,61	2,54	2,52	2,70	2,60	2,56	2,75	2,64
Diseases of the Skin and Subcutaneous Tissue	L00-L99	0,05	0,10	0,07	0,05	0,09	0,07	0,06	0,10	0,08
Diseases of the Musculoskeletal System and Connective Tissue	M00-M99	0,27	0,59	0,41	0,29	0,59	0,42	0,20	0,46	0,32
Diseases of the Genitourinary System	N00-N99	3,06	3,44	3,23	3,10	3,52	3,29	2,81	3,25	3,01
Pregnancy, Childbirth and the Puerperium	O00-O99	-	0,04	0,02	-	0,04	0,02	-	0,19	0,08
Certain Conditions Originating in the Perinatal Period	P00-P96	1,66	1,59	1,63	1,77	1,73	1,75	1,96	1,82	1,90
Congenital Malformations, Deformations and Chromosomal Abnormalities	Q00-Q99	1,26	1,46	1,35	1,15	1,30	1,22	1,27	1,43	1,35
Symptoms, Signs and Abnormal Clinical and Laboratory Findings, Not Elsewhere Classified	R00-R99	4,20	3,83	4,04	4,76	4,75	4,76	2,06	2,31	2,17
External causes of morbidity and mortality	V01-Y98	5,21	2,67	4,07	5,32	2,63	4,10	7,27	3,31	5,48

Source: TURKSTAT Causes of Death Statistics, 2011, 2012, 2013

Chapter 2 Explanations

☑ While calculating Infant, Perinatal, Neonatal, Postneonatal and Under-five child mortality rates, over 28 weeks and over or 1.000 g and more deaths are taken into account.

☑ **Infant Mortality Rate:** It is calculated as, in a society, number of infants who die before completing one year in live births, multiplying by 1.000 to the ratio of the number of live born infants in the same year in the same society.

☑ **Perinatal Mortality Rate:** It is acquired by adding the number of the babies who are born alive and die in 7 days (Early Neonatal) in a year in a society to the number of the dead births in the same year and it is divided by the number of total births (live+dead) in the same year and multiplied by 1.000.

☑ **Neonatal Mortality Rate:** It is calculated as, in a society, in a year, the number of newborn deaths occurring in 28 days to the number of live born infants multiplying by 1.000 in the same society in the same year.

☑ **Postneonatal mortality rate:** It is calculated as, in a society, in a year, the number of newborn deaths occurring in 29 days and 364 days to the number of live born infants multiplying by 1.000 in the same society in the same year

☑ **Under-Five Mortality Rate:** In a society, in a year, number of children who died without completing five years, to the ratio of the number of live births multiplying by 1.000 in the same society in the same year.

☑ **Maternal Mortality Ratio:** The number of mothers who die due to pregnancy in a year in a society, multiplying by 100.000 to the ratio of the number of live-born babies in the same society in the same year.

TURKSTAT Mortality Reason Statistics

Definition	:	The reasons causing mortality are the statistics belonging to the underlying reason of mortality
Classification	:	“International Classification of Diseases (ICD-10)” is used in the assessment of the mortality reason statistics
Scope of Data	:	The data covers the mortality cases seen by the physicians in the provincial and district centres, and all of the residence with physician.
Resources of Data	:	They are the hospitals, family health centers, municipal medical offices, forensic medicine institutions and other health institutions.
Data Compilation System	:	The mortality certificate is filled by the hospitals, family health centers, municipal medical offices, forensic medicine institutions and other health institutions for all of the mortality cases seen by the physician. The filled mortality certificates are compiled for the whole province in the Provincial Health Directorates, and transmitted to the relevant TURKSTAT Regional Directorates.
Data Processing	:	Except the disease part, the data entry of the other parts in the mortality certificate, is made at the TURKSTAT Regional Directorates. The mortality certificates, the data entry of which is made, are sent to the TURKSTAT centre. All of the diseases that cause mortality and related to mortality in the mortality certificate are coded by the encoder team at the centre according to the International Classification of Diseases (ICD-10), and the underlying cause of mortality is found according to the rules of the World Health Organization. Then, the data entry of the names of the diseases, codes of the diseases, and the code of the underlying disease in these certificates is made.



Chapter 3

Morbidity

Table 3.1. Number of Cases of the Infectious Diseases by Years, Turkey

		2002	2008	2009	2010	2011	2012	2013
AIDS	Local Case	42	48	68	64	66	79	80
	Imported Case	6	1	7	6	14	10	13
	Total Case	48	49	75	70	80	89	93
Measles	Local Case	7.810	0	0	0	0	318	6.731
	Imported Case	0	4	4	7	111	31	674
	Total Case	7.810	4	4	7	111	349	7.405
Tuberculosis	Local Case	18.043	17.425	16.594	15.700	14.852	13.878	-
	Imported Case	0	175	163	179	202	261	-
	Total Case	18.043	17.600	16.757	15.879	15.054	14.139	-
Malaria	Local Case	10.184	166	38	9*	4*	1*	34*
	Imported Case	40	49	46	78	128	375	251
	Total Case	10.224	215	84	87	132	376	285

Source: Public Health Institution of Turkey

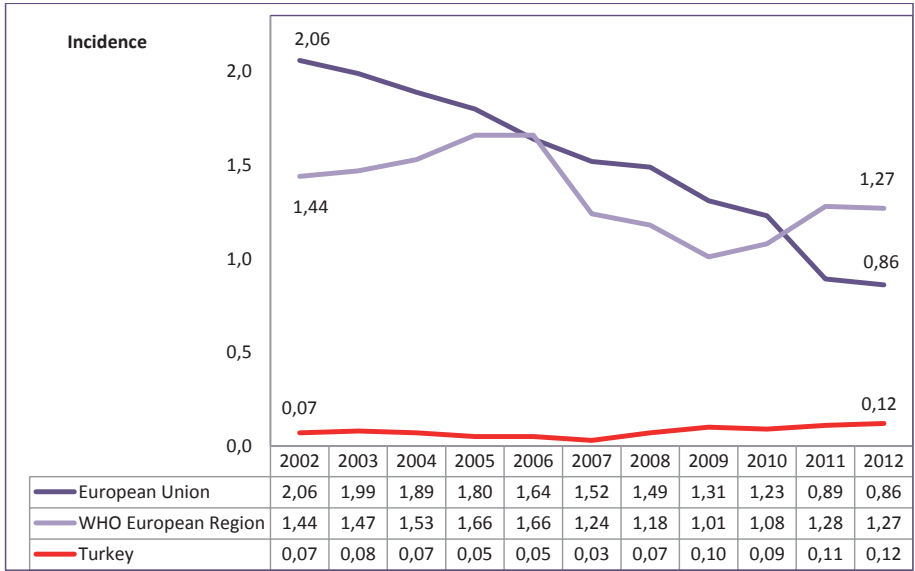
**2010, 2011, 2012 and 2013 all local malaria cases are "Relapsing malaria case" and local new case number is "0" (zero).*

Table 3.2. Infectious Diseases Incidence by Years, (per 100.000 Population), Turkey

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
AIDS	0,07	0,08	0,07	0,05	0,05	0,03	0,07	0,10	0,09	0,11	0,12	0,12
Measles	11,8	8,3	12,9	1,6	0,0	0,0	0,0	0,0	0,0	0,1	0,5	9,7
Tuberculosis	32	31	30	34	33	31	29	27	25	24	22	-
Malaria	15,4	13,7	7,8	3,0	1,1	0,5	0,3	0,1	0,1	0,2	0,5	0,4

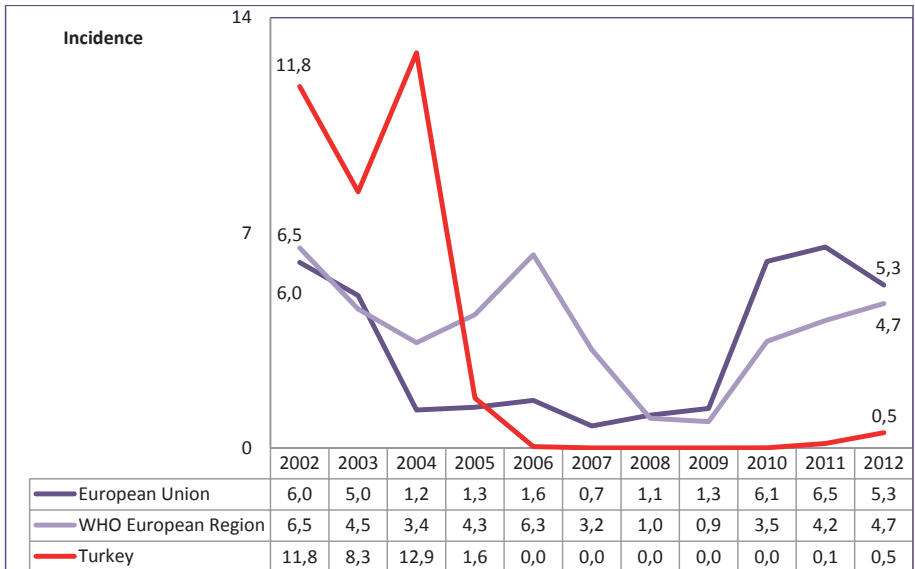
Source: Public Health Institution of Turkey, WHO Global Health Observatory Database

Figure 3.1. International Comparison of AIDS Incidence by Years, (per 100.000 Population)



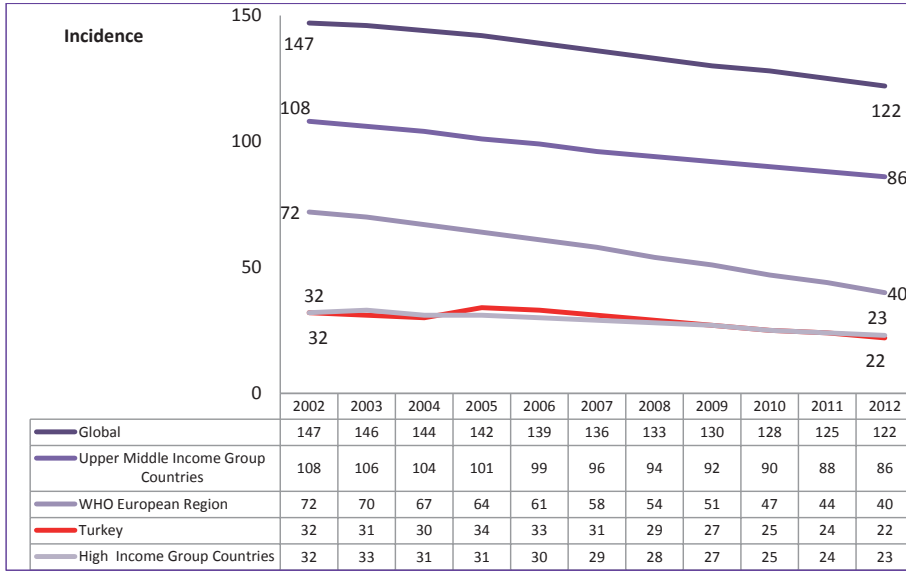
Source: WHO HFA Database, Public Health Institution of Turkey

Figure 3.2. International Comparison of Measles Incidence by Years, (per 100.000 Population)



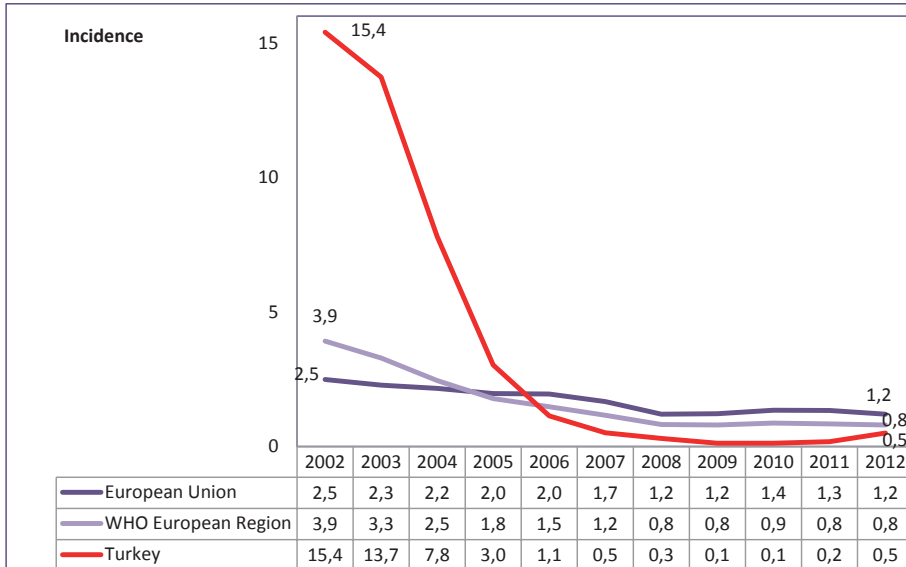
Source: WHO HFA Database, Public Health Institution of Turkey

Figure 3.3. International Comparison of Tuberculosis Incidence by Years, (per 100.000 Population)



Source: WHO Global Health Observatory Database

Figure 3.4. International Comparison of Malaria Incidence by Years, (per 100.000 Population)



Source: WHO HFA Database, Public Health Institution of Turkey

Table 3.3. Distribution of Hospital Discharges by the Main Diagnosis Groups of ICD-10 and Sex, (%), Turkey, 2011, 2012, 2013

ICD-10 Diagnosis Groups	Code	2011			2012			2013		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Certain Infectious and Parasitic Diseases	A00-B99	3,8	2,7	3,2	3,8	2,6	3,1	3,7	2,6	3,1
Neoplasms	C00-D48	4,8	3,5	4,1	4,8	3,5	4,1	4,5	3,4	3,9
Diseases of the Blood and Bloodforming Organs and Certain Disorders Involving the Immune Mechanism	D50-D89	1,3	1,7	1,5	1,4	1,7	1,6	1,5	2,0	1,7
Endocrine, Nutritional and Metabolic Diseases	E00-E90	2,2	3,4	2,9	2,2	3,3	2,8	2,1	3,2	2,7
Mental and Behavioural Disorders	F00-F99	1,8	1,2	1,5	2,3	1,3	1,7	1,8	1,0	1,4
Diseases of the Nervous System	G00-G99	1,9	1,8	1,8	1,8	1,7	1,8	1,9	1,7	1,8
Diseases of the Eye and Adnexa	H00-H59	3,7	3,3	3,5	4,2	3,6	3,9	4,6	4,0	4,3
Diseases of the Ear and Mastoid Process	H60-H95	0,8	0,7	0,7	0,7	0,6	0,6	0,6	0,5	0,6
Diseases of the Circulatory System	I00-I99	9,0	6,2	7,5	9,2	6,4	7,7	9,5	6,6	7,9
Diseases of the Respiratory System	J00-J99	17,5	10,2	13,5	17,0	9,7	12,9	16,8	9,6	12,8
Diseases of the Digestive System	K00-K93	10,8	8,3	9,4	11,5	9,1	10,2	12,1	10,1	11,0
Diseases of the Skin and Subcutaneous Tissue	L00-L99	3,8	2,1	2,9	3,9	2,1	2,9	4,0	2,2	3,0
Diseases of the Musculoskeletal System and Connective Tissue	M00-M99	4,1	5,2	4,7	3,9	5,0	4,5	3,7	4,9	4,4
Diseases of the Genitourinary System	N00-N99	7,8	8,2	8,0	6,9	8,4	7,7	7,8	8,3	8,1
Pregnancy, Childbirth and the Puerperium	O00-O99	-	21,6	12,0	-	21,8	12,1	-	21,6	11,9
Certain Conditions Originating in the Perinatal Period	P00-P96	2,6	1,9	2,2	2,9	2,0	2,4	2,7	1,9	2,3
Congenital Malformations, Deformations and Chromosomal Abnormalities	Q00-Q99	1,1	0,5	0,8	1,1	0,5	0,7	1,1	0,5	0,7
Symptoms, Signs and Abnormal Clinical and Laboratory Findings, Not Elsewhere Classified	R00-R99	5,0	4,3	4,6	4,6	3,8	4,2	3,8	3,2	3,4
Injury, Poisoning and Certain other Consequences of External Causes	S00-T98	8,7	4,4	6,3	8,1	4,3	5,9	7,3	3,9	5,4
Factors Influencing Health Status and Contact With Health Services	Z00-Z99	9,2	8,8	9,0	9,6	8,6	9,1	10,7	8,8	9,7
Total		100	100	100	100	100	100	100	100	100

Source: General Directorate of Health Services Diagnosis-Related Groups Database

Table 3.4. Total Cancer Incidence by Years and Sex, (per 100.000, World Standard Population), Turkey

	2002	2003	2004	2005	2006	2007	2008	2009
Female	113,0	127,9	142,9	149,7	158,1	165,1	172,0	173,3
Male	154,2	168,7	236,3	246,5	256,4	279,0	280,5	269,7
Total	133,5	148,3	189,6	198,1	207,3	222,0	226,3	221,5

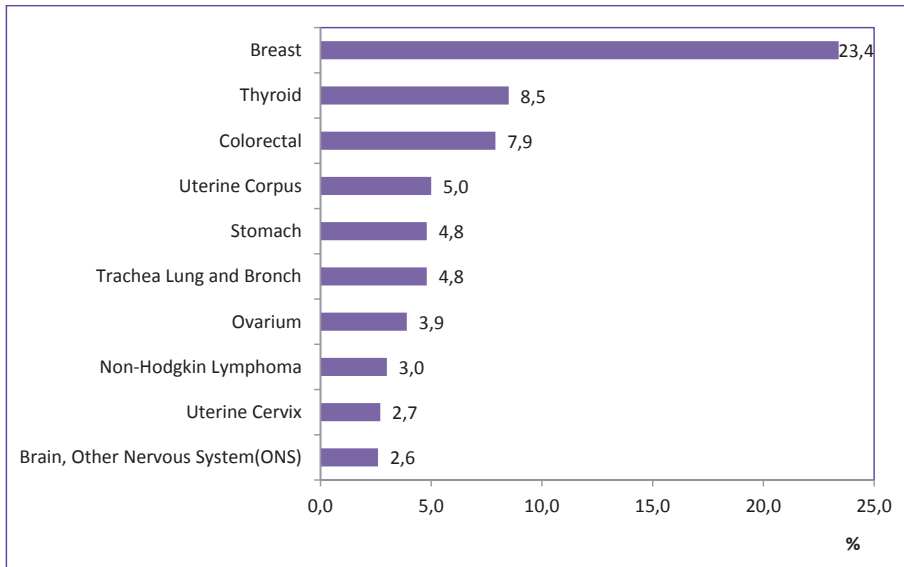
Source: Public Health Institution of Turkey

Table 3.5. Incidence of the Most Common 10 Types of Cancer Among Women by Years, (per 100.000, World Standard Population), Turkey

	2002	2003	2004	2005	2006	2007	2008	2009
Breast	31,9	33,9	34,7	35,0	37,6	35,9	40,7	40,6
Thyroid	3,5	5,1	7,3	9,6	10,8	14,4	16,2	18,6
Colorectal	9,3	10,3	11,3	11,1	12,5	12,3	13,2	13,4
Uterine Corpus	4,3	5,9	7,6	7,1	8,4	8,7	8,6	9,3
Trachea Lung and Bronch	5,2	5,8	7,4	7,4	7,7	7,8	8,2	8,1
Stomach	6,0	6,9	6,4	6,9	7,6	8,4	7,7	8,1
Ovarium	5,9	6,2	5,8	5,6	5,9	6,5	6,9	6,9
Non-Hodgkin Lymphoma	1,2	1,4	4,4	4,0	4,9	5,2	5,0	5,3
Brain, Other Nervous System(ONS)	3,8	4,2	3,6	4,0	4,6	4,6	4,4	5,0
Uterine Cervix	3,9	4,7	4,5	4,4	4,8	4,3	4,1	4,5

Source: Public Health Institution of Turkey

Figure 3.5. The Distribution of the Most Common 10 Cancer Types Among Women in the Total Cancer, (%), 2009, Turkey



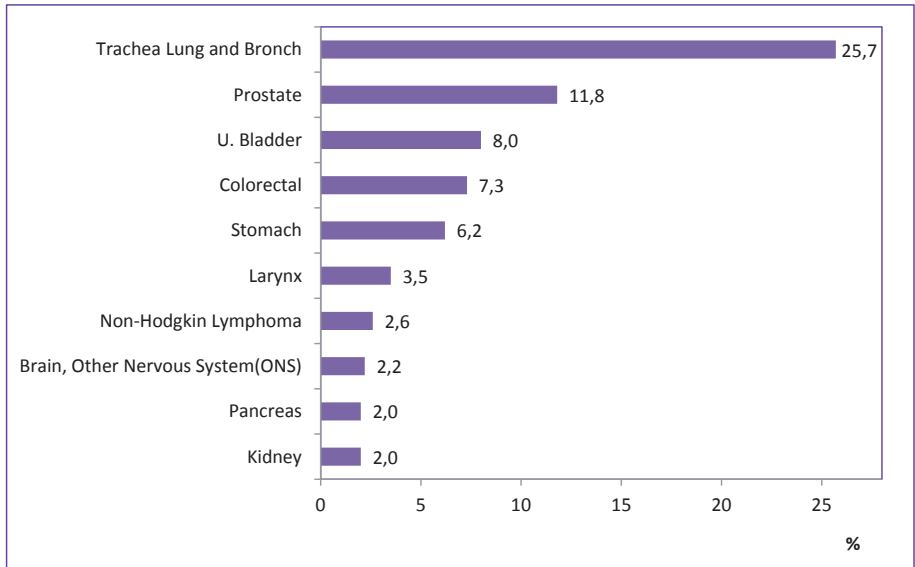
Source: Public Health Institution of Turkey

Table 3.6. Incidence of the Most Common 10 Types of Cancer Among Men by Years, (per 100,000, World Standard Population), Turkey

	2002	2003	2004	2005	2006	2007	2008	2009
Trachea Lung and Bronch	42,2	43,5	65,1	65,9	68,9	73,0	69,2	66,0
Prostate	11,5	14,0	24,9	28,6	28,9	32,3	37,6	36,1
U. Bladder	12,4	13,7	19,3	20,6	21,0	22,5	21,7	21,4
Colorectal	11,8	13,8	16,5	16,2	18,2	19,1	20,8	21,0
Stomach	11,6	12,0	14,1	14,9	14,8	17,3	18,0	16,2
Larynx	6,9	8,4	10,0	8,9	9,7	9,3	9,1	8,1
Non-Hodgkin Lymphoma	1,4	2,5	6,3	5,9	6,9	7,6	6,9	7,2
Kidney	3,0	3,2	4,1	4,1	5,5	5,2	5,8	6,3
Pancreas	3,1	3,1	4,0	4,4	5,2	6,3	6,1	5,4
Brain, Other Nervous System(ONS)	5,3	4,7	4,7	5,7	5,4	5,8	6,1	5,4

Source: Public Health Institution of Turkey

Figure 3.6. The Distribution of the Most Common 10 Cancer Types Among Men in the Total Cancer, (%), 2009, Turkey



Source: Public Health Institution of Turkey

Table 3.7. Cancer Incidence and Sex, (per 100.000, World Standard Population), Turkey, 2009

ICD-10	Male	ICD-10	Female		
C00-96	All Cancers	269,7	C00-96	All Cancers	173,3
C00-14	Mouth, Pharynx	6,4	C00-14	Mouth, Pharynx	2,8
C00	Lip	1,7	C00	Lip	0,3
C01-C02	Tongue	0,8	C01-C02	Tongue	0,5
C03-C06	Mouth	0,8	C03-C06	Mouth	0,5
C07-C08	Salivary Glands	0,5	C07-C08	Salivary Glands	0,4
C09	Tonsil	0,3	C09	Tonsil	0,1
C10	Other Oropharynx	0,1	C10	Other Oropharynx	0,0
C11	Nasopharynx	1,7	C11	Nasopharynx	0,8
C12-C13	Hypopharynx	0,4	C12-C13	Hypopharynx	0,2
C14	Pharynx, unspecified	0,1	C14	Pharynx, unspecified	0,0
C15-26	Digestion Organs	52,1	C15-26	Digestion Organs	30,1
C15	Esophagus	2,6	C15	Esophagus	1,3
C16	Stomach	16,2	C16	Stomach	8,1
C17	Small Intestine	0,6	C17	Small Intestine	0,5
C18	Colon	12,6	C18	Colon	8,1
C19-C20	Rectum	8,4	C19-C20	Rectum	5,3
C21	Anus	0,2	C21	Anus	0,2
C22	Liver	4,0	C22	Liver	1,7
C23-C24	Gall bladder etc.	1,8	C23-C24	Gall bladder etc.	1,7
C25	Pancreas	5,4	C25	Pancreas	3,0
C26	Other Digestion Organs	0,3	C26	Other Digestion Organs	0,2
C30-34,C37-C38	Respiratory Organs	75,3	C30-34,C37-C38	Respiratory Organs	9,0
C30-C31	Nose, sinuses etc.	0,5	C30-C31	Nose, sinuses etc.	0,2
C32	Larynx	8,1	C32	Larynx	0,4
C33-C34	Trachea, Bronchus, Lung	66,0	C33-C34	Trachea, Bronchus, Lung	8,1
C37-C38	Other Thoracic Organs	0,7	C37-C38	Other Thoracic Organs	0,3
C40-C41	Bone	1,2	C40-C41	Bone	0,8
C43	Melanoma	2,1	C43	Melanoma	1,6
C44	Other Skin	24,0	C44	Other Skin	15,8
C45	Mesothelioma	1,2	C45	Mesothelioma	0,7
C46	Kaposi's sarcoma	0,6	C46	Kaposi's sarcoma	0,3
C47,C49	Connective, Soft tissue	2,4	C47,C49	Connective, Soft tissue	1,5
C50	Breast	0,8	C50	Breast	40,6
C60-63	Male Genital Organs	39,2	C51-58	Female Genital Organs	21,9
C60	Penis	0,0	C51	Vulva	0,5
C61	Prostate	36,1	C52	Vagina	0,1
C62	Testicle	3,1	C53	Cervix uteri	4,5
C63	Other male genital	0,0	C54	Corpus uteri	9,3
			C55	Uterus unspec.	0,3
			C56	Ovary	6,9
			C57	Other Female Genital	0,3
			C58	Placenta	0,0
C64-68	Urinary Organs	28,3	C64-68	Urinary Organs	6,5
C64	Kidney	6,3	C64	Kidney	3,5
C65	Renal Pelvis	0,3	C65	Renal Pelvis	0,0
C66	Ureter	0,2	C66	Ureter	0,1
C67	Bladder	21,4	C67	Bladder	2,9
C68	Other Urinary Organs	0,1	C68	Other Urinary Organs	0,0
C69	Eye	0,4	C69	Eye	0,4
C70-C72	Brain, nervous system	5,4	C70-C72	Brain, nervous system	5,0
C73	Thyroid	4,5	C73	Thyroid	18,6
C74-75	Other Endocrine Glands	0,5	C74-75	Other Endocrine Glands	0,4
C74	Adrenal gland	0,4	C74	Adrenal gland	0,3
C75	Other Endocrine	0,1	C75	Other Endocrine	0,1
C81-85,88,90-96	Lymphoid and hematopoietic	19,0	C81-85,88,90-96	Lymphoid and hematopoietic	13,5
C81	Hodgkin's disease	2,0	C81	Hodgkin's disease	1,1
C82-C85,C96	Non-Hodgkin lymphoma	7,2	C82-C85,C96	Non-Hodgkin lymphoma	5,3
C88	Immunoproliferative diseases	0,0	C88	Immunoproliferative diseases	0,0
C90	Multiple Myeloma	2,7	C90	Multiple Myeloma	1,9
C91	Lymphoid Leukemia	3,6	C91	Lymphoid Leukemia	2,7
C92-C94	Myeloid Leukemia	3,1	C92-C94	Myeloid Leukemia	2,2
C95	Leukemia, unspecified	0,4	C95	Leukemia, unspecified	0,3
C39,C48,C76,C77,C80	Other&Unspecified	6,3	C39,C48,C76,C77,C80	Other&Unspecified	3,6

Source: Public Health Institution of Turkey

Table 3.8. The Status of the 18 and Over Aged Individuals regarding Making Self-Examination of Breast, (%), 2013

	%
I Have Never Made Self-Examination of Breast until Today	65,1
I Make Self-Examination of Breast Once in a While (Less Frequently than Once in 3 Months)	19,4
I Make Self-Examination of Breast Once in 2-3 Months	5,4
I Make Self-Examination of Breast every Month Regularly	10,1

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 3.9. Distribution of the Status of 15 and Over Aged Individuals regarding Having Prostate Examination by Residence, 2012

	Rural	Urban	Turkey
I Had Prostate Examination within the Last 12 Months	5,4	4,6	4,9
I Had Prostate Examination before the Last 12 Months	6,3	4,9	5,3
I did not Have Prostate Examination	87,1	90,2	89,3

Source: TURKSTAT, Health Interview Survey 2012

Table 3.10. Distribution of the Status of 15 and Over Aged Individuals regarding Having Mammography by Residence, 2012

	Rural	Urban	Turkey
I Had Mammography within the Last 12 Months	4,9	7,7	6,8
I Had Mammography before the Last 12 Months	8,2	12,2	10,9
I did not Have Mammography	84,2	78,6	80,4

Source: TURKSTAT, Health Interview Survey 2012

Table 3.11. Distribution of the Status of 15 and Over Aged Individuals regarding Having Smear Test by Residence, 2012

	Rural	Urban	Turkey
I Had Smear Test within the Last 12 Months	5,4	9,1	7,9
I Had Smear Test before the Last 12 Months	7,7	12,6	11,1
I did not Have Smear Test	82,2	75,9	77,9

Source: TURKSTAT, Health Interview Survey 2012

Table 3.12. Distribution of 15 and Over Aged Individuals' General Health Status by Sex, Age Groups and Residence, (%), 2012

Age Groups		Rural			Urban			Turkey		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
15-24	Very Good/Good	93,4	91,2	92,2	93,6	91,6	92,6	93,5	91,5	92,5
	Bad/Very Bad	1,4	1,8	1,6	1,3	1,2	1,3	1,3	1,4	1,4
25-34	Very Good/Good	83,4	81,6	82,4	89,6	82,8	86,2	88,1	82,5	85,3
	Bad/Very Bad	2,6	2,9	2,8	1,8	2,1	1,9	2,0	2,3	2,1
35-44	Very Good/Good	77,7	63,3	70,4	80,9	68,8	74,9	80,0	67,3	73,7
	Bad/Very Bad	4,2	5,5	4,8	3,2	4,8	4,0	3,4	5,0	4,2
45-54	Very Good/Good	67,7	41,8	54,9	72,9	53,4	63,1	71,2	49,7	60,5
	Bad/Very Bad	6,4	14,2	10,3	4,7	8,9	6,8	5,3	10,6	7,9
55-64	Very Good/Good	49,4	33,2	40,8	59,1	37,2	48,2	55,6	35,6	45,4
	Bad/Very Bad	0,9	22,6	17,1	9,6	17,8	13,7	10,1	19,7	15,0
65-74	Very Good/Good	42,4	20,3	30,2	45,0	23,9	33,5	43,7	22,1	31,9
	Bad/Very Bad	18,1	30,3	24,8	15,7	26,3	21,5	16,9	28,3	23,1
75+	Very Good/Good	21,9	13,2	16,9	27,1	14,1	19,0	24,3	13,6	17,9
	Bad/Very Bad	33,6	44,1	39,6	30,2	38,7	35,5	32,0	41,4	37,6
Total	Very Good/Good	70,3	57,1	63,4	80,1	67,9	74,0	77,1	64,5	70,7
	Bad/Very Bad	7,4	13,1	10,4	4,3	7,3	5,8	5,2	9,2	7,2

Source: TURKSTAT, Health Interview Survey 2012

Table 3.13. Distribution of 15 and Over Aged Individuals' General Health Status by Sex, (%), 2008, 2010, 2012

		2008	2010	2012
Male	Very Good Good	71,9	73,5	77,1
	Bad Very Bad	7,0	6,7	5,2
Female	Very Good Good	55,5	56,7	64,5
	Bad Very Bad	13,2	13,1	9,2
Total	Very Good Good	63,6	65,0	70,7
	Bad Very Bad	10,1	10,0	7,2

Source: TURKSTAT, Health Interview Survey 2008, 2010, 2012

Table 3.14. Distribution of Diseases/Health Problems Declared by 15 and Over Aged Individuals by Sex and Residence, (%), 2012

Diseases/Health Problems	Rural			Urban			Turkey		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
High Blood Pressure (Hypertension)	10,9	22,1	16,7	7,8	15,4	11,6	8,7	17,6	13,2
Back Musculoskeletal System Disorders (Lumbago, Back Hernia etc.)	11,3	20,0	15,8	8,9	13,9	11,4	9,6	15,9	12,8
Rheumatismal Joint Disease (Rheumatoid Arthritis)	7,7	16,9	12,5	4,3	10,7	7,5	5,3	12,7	9,1
Stomach Ulcer (Gastric Ulcer)	7,5	11,5	9,6	5,7	8,2	6,9	6,2	9,2	7,7
Diabetes Mellitus	6,3	8,4	7,4	5,3	7,8	6,6	5,6	8,0	6,8
Osteoarthritis (Arthrosis, Joint Degeneration)	5,6	12,5	9,2	2,8	7,9	5,3	3,6	9,4	6,5
Neck Musculoskeletal System Disorders (Neck Pain, Neck Hernia, etc.)	3,1	9,4	6,4	3,1	8,5	5,8	3,1	8,8	6,0
Anemia (Iron Deficiency Anemia)	1,7	9,6	5,8	1,0	9,9	5,5	1,2	9,8	5,6
Sinusitis (Inflammation of Sinus)	4,9	5,7	5,3	4,7	6,0	5,4	4,8	5,9	5,3
Migraine and Severe Headache	2,8	7,8	5,4	2,3	7,8	5,0	2,4	7,8	5,1
Asthma (Allergic Asthma Included)	5,0	8,3	6,7	3,0	5,7	4,4	3,6	6,5	5,1
Coronary Heart Disease (Angina Pectoris, Chest Pain, Spasm)	5,6	5,6	5,6	3,7	4,0	3,9	4,3	4,5	4,4
Allergy, Such as Rhinitis, Eye Inflammation, Dermatitis, Food Allergy or Other (Allergic Asthma Excluded)	3,0	4,4	3,7	2,7	4,6	3,6	2,8	4,5	3,7
Thyroid Disease	0,9	5,6	3,4	1,0	6,1	3,5	0,9	5,9	3,5
Chronic Obstructive Pulmonary Disease, Emphysema	3,7	4,4	4,0	2,3	2,6	2,5	2,7	3,2	3,0
Urinary Incontinence, Problems in Controlling the Bladder	2,5	5,0	3,8	1,0	2,5	1,8	1,5	3,3	2,4
Chronic Depression	1,4	3,5	2,5	0,9	2,9	1,9	1,0	3,1	2,1
Other Psychological Health Problems	1,8	2,6	2,2	1,2	2,0	1,6	1,4	2,2	1,8
Chronic Heart Failure	1,2	2,0	1,6	0,8	1,4	1,1	0,9	1,6	1,3
Myocardial Infarction (Heart Attack)	1,4	0,9	1,1	1,2	0,6	0,9	1,2	0,7	1,0
Stroke (Cerebral Hemorrhage, Cerebral Thrombosis)	1,4	1,2	1,3	0,7	0,9	0,8	0,9	1,0	0,9
Hepatitis	0,9	0,6	0,7	1,2	0,7	1,0	1,1	0,7	0,9
Permanent Injury or Defect Caused By An Accident	1,5	0,7	1,1	1,0	0,5	0,7	1,1	0,6	0,8
Duodenal Ulcer	0,6	1,5	1,1	0,6	0,8	0,7	0,6	1,0	0,8
Cancer (Malign, Malignant, Leukemia, Lymphoma Included)	0,7	0,6	0,6	0,5	0,8	0,7	0,6	0,7	0,6
Chronic Anxiety	0,4	0,9	0,7	0,2	0,9	0,6	0,3	0,9	0,6
Cirrhosis of the Liver, Liver Dysfunction	0,6	0,7	0,7	0,3	0,3	0,3	0,4	0,5	0,4

Source: TURKSTAT, Health Interview Survey 2012

Table 3.15. Distribution of 15 and Over Aged Individuals Morbidity/ Health Problems Diagnosed by Physician, by Sex and Location, (%), 2012

Diseases/Health Problems	Rural			Urban			Turkey		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Back Musculoskeletal System Disorders (Lumbago, Back Hernia etc.)	9,2	16,8	13,2	7,5	12,3	9,9	8,0	13,8	10,9
High Blood Pressure (Hypertension)	10,6	21,3	16,2	7,5	15,1	11,3	8,5	17,1	12,8
Rheumatismal Joint Disease (Rheumatoid Arthritis)	5,9	15,0	10,6	3,5	9,7	6,6	4,2	11,4	7,9
Stomach Ulcer (Gastric Ulcer)	6,8	10,8	8,9	5,3	7,7	6,5	5,8	8,7	7,2
Osteoarthritis (Arthrosis, Joint Degeneration)	4,5	11,8	8,3	2,4	7,4	4,9	3,1	8,8	6,0
Anemia (Iron Deficiency Anemia)	1,4	9,2	5,5	0,9	9,6	5,3	1,1	9,5	5,3
Sinusitis (Inflammation of Sinus)	4,1	4,9	4,5	4,3	5,6	4,9	4,2	5,4	4,8
Neck Musculoskeletal System Disorders (Neck Pain, Neck Hernia, etc.)	2,3	7,7	5,1	2,4	7,4	4,9	2,4	7,5	5,0
Diabetes Mellitus	6,1	8,3	7,2	5,2	7,7	6,5	5,5	7,9	6,7
Migraine and Severe Headache	1,7	6,3	4,1	1,6	6,9	4,3	1,7	6,7	4,2
Allergy, Such as Rhinitis, Eye Inflammation, Dermatitis, Food Allergy or Other (Allergic Asthma Excluded)	2,4	3,4	3,0	2,3	4,0	3,2	2,4	3,9	3,1
Asthma (Allergic Asthma Included)	4,7	7,8	6,3	2,9	5,6	4,2	3,4	6,3	4,9
Coronary Heart Disease (Angina Pectoris, Chest Pain, Spasm)	5,2	5,1	5,1	3,5	3,8	3,7	4,0	4,2	4,1
Chronic Obstructive Pulmonary Disease, Emphysema	3,6	4,1	3,9	2,3	2,5	2,4	2,7	3,0	2,9
Thyroid Disease	0,9	5,3	3,2	0,9	5,9	3,4	0,9	5,7	3,4
Chronic Depression	1,2	3,3	2,2	0,8	2,7	1,8	0,9	2,9	1,9
Urinary Incontinence, Problems in Controlling the Bladder	1,8	3,5	2,7	0,9	1,8	1,4	1,2	2,4	1,8
Chronic Heart Failure	1,1	1,9	1,6	0,8	1,4	1,1	0,9	1,6	1,2
Other Psychological Health Problems	1,5	2,2	1,9	1,0	1,8	1,4	1,2	1,9	1,6
Hepatitis	0,9	0,6	0,7	1,1	0,7	0,9	1,0	0,7	0,8
Permanent Injury or Defect Caused By An Accident	1,4	0,6	1,0	0,9	0,5	0,7	1,1	0,5	0,8
Myocardial Infarction (Heart Attack)	1,4	0,8	1,1	1,2	0,6	0,9	1,2	0,6	0,9
Stroke (Cerebral Hemorrhage, Cerebral Thrombosis)	1,3	1,2	1,2	0,7	0,8	0,8	0,9	0,9	0,9
Duodenal Ulcer	0,6	1,3	1,0	0,5	0,7	0,6	0,5	0,9	0,7
Chronic Anxiety	0,1	0,6	0,4	0,2	0,7	0,4	0,2	0,6	0,4
Cirrhosis of the Liver, Liver Dysfunction	0,6	0,7	0,6	0,3	0,3	0,3	0,4	0,5	0,4
Cancer (Malign, Malignant, Leukemia, Lymphoma Included)	0,7	0,6	0,6	0,5	0,8	0,7	0,6	0,7	0,6

Source: TURKSTAT, Health Interview Survey 2012

Explanations for Chapter 3

☑ There is no record for the distinction between the local and imported cases for the measles and tuberculosis cases in 2002.

☑ The case and incidence of tuberculosis in 2013 will be given in the Global Tuberculosis Control Report 2014 to be published by the World Health Organization.

☑ The data regarding cancer were obtained from the data of the provinces collecting data with Active Cancer Registry System. *Active Cancer Registry System*; the data searched one by one in the patient files and electronic databases by the cancer registry personnel are transferred to the cancer registry forms. These forms are sent to the Presidency of Turkish Public Health Institution in the electronic environment after the duplication check and other quality control activities are performed after the forms are entered to Canreg-4 computer programs in the Provincial Public Health Directorate Cancer Registry Centers. As in the whole world, the regions (provinces) which can carry out professional cancer registry activities and reflect at least 20% population of the country are selected in our country, too. The data of the provinces Ankara, Antalya, Bursa, Edirne, Erzurum, Eskişehir, İzmir, Samsun, Trabzon were used for these calculations.

TURKSTAT, Health Interview Survey 2012

☑ With the 2012 Health Interview Survey, it is intended to reveal the overall health profile of individuals, to obtain the information regarding the health indicator which has an important share in the development indicators showing the development levels of the countries, and to close the information gap in the existing structure. The survey has a nature of both allowing international comparisons and shedding light on national needs.

☑ The sample size of the survey has been calculated in a way to produce estimates on the basis of Turkey total, urban, and rural. By design, the total sample volume has been identified as 14.400 households.

Ministry of Health, Development of Health in Turkey Research Report 2013

It was carried out by the General Directorate of Health Research, Ministry of Health

Objective of the Research;

☑ Identification of the behaviours and risks related to health in the society and the health status of the society,

☑ Identification of the features of the society's use of health services,

☑ Determination of the socio-economic determinants of health and inequalities of health,

☑ Assessment of the types of health-promoting behaviors in the society,

☑ Creation data in order to use in the planning of health promotion programs at the local and national scales,

☑ Assessment of the awareness in the society regarding health promotion programs,

☑ Determination of the priority problem areas for the health administrators at the regional level,

☑ Obtaining evidence-based information in creation of health policies regarding health promotion.

Population and Sample;

☑ The survey population is all of the households within the boundaries of Turkey. The sample related to all of the interviews made within the scope of survey has been determined by TURKSTAT in a way to represent NUTS-1. Multi-Stage Stratified Probability Cluster Sampling method has been used as the sampling type. Interviews have been made in a total of 9.717 households within the scope of survey. The 81 provinces within the boundaries of Turkey are included within the scope of the survey.



Risk Factors

Chapter 4

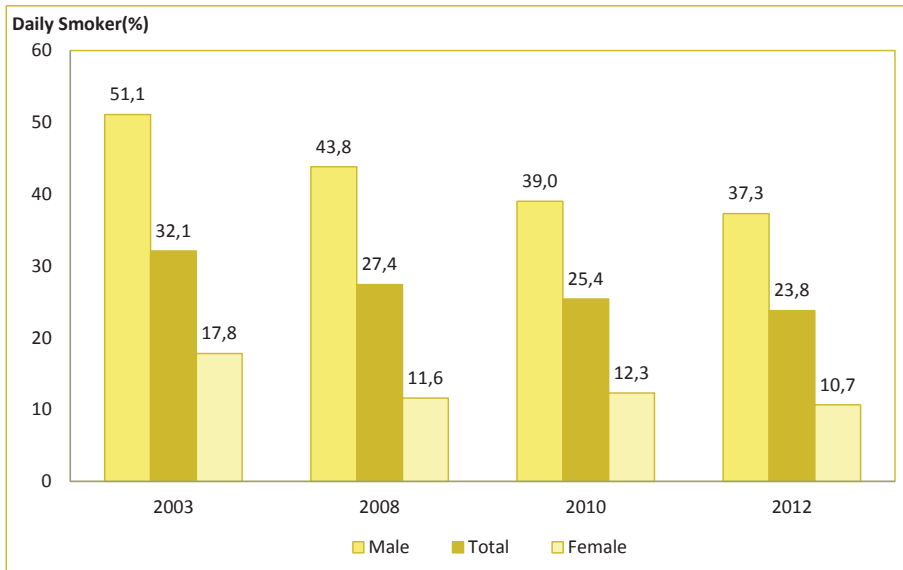
Risk Factors

Table 4.1. Distribution of Individuals Using Tobacco Product by Sex and Residence, 2012

Tobacco Consumption	Rural			Urban			Turkey		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Daily Smoker	33,3	4,7	18,9	38,9	13,0	25,7	37,3	10,7	23,8
Occasional Smoker	4,2	2,0	3,1	4,1	2,6	3,3	4,1	2,4	3,3
Non-smoker/ Never Smoker	62,5	93,3	78,0	57,0	84,5	71,0	58,5	86,9	72,9

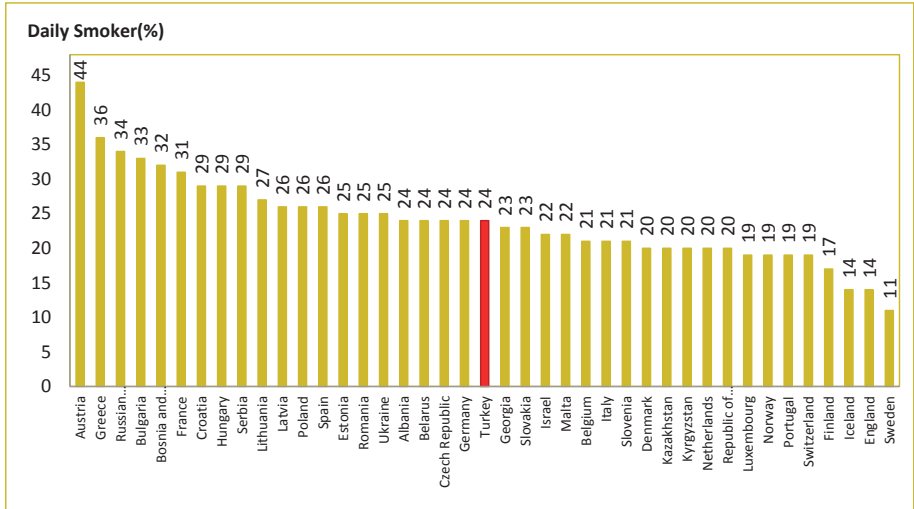
Source: TURKSTAT and Ministry of Health, Global Adult Tobacco Survey 2012

Figure 4.1. Distribution of Individuals Using Tobacco Product Daily by Sex and Residence, (%), 2003, 2008, 2010, 2012



Source: Ministry of Health National Burden of Disease and Cost Effectiveness Study, Household Survey 2003, TURKSTAT Global Adult Tobacco Survey 2008, TURKSTAT Health Survey 2010, TURKSTAT and Ministry of Health Global Adult Tobacco Survey 2012

Figure 4.2. Daily Tobacco Product Consumption by Countries (%), 2012



Source: WHO Report on the Global Tobacco Epidemic, 2013

Table 4.2. Current Tobacco Product Consumers' First Tobacco Product Consumption Age by Sex, (%), 2012

Age at the First use of Tobacco Products	Male	Female	Total
<10	3,6	0,7	2,9
10-14	22,2	13,9	20,0
15-19	52,0	47,7	50,9
20-24	18,5	24,3	20,0
25-29	2,1	7,5	3,5
30-34	0,9	3,2	1,5
35+	0,7	2,8	1,3
Total	100	100	100

Source: TURKSTAT, Health Interview Survey 2012

Table 4.3. Distribution of 15 and Over Aged Individuals' Alcohol Consumption by Sex and Residence, (%), 2012

Alcohol Consumption	Rural			Urban			Turkey		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Consumes	13,9	1,2	7,3	18,7	5,0	11,8	17,2	3,8	10,4
Doesn't Consume	16,4	1,7	8,7	14,9	5,3	10,1	15,4	4,2	9,7
Never Consumed	69,7	97,1	84,0	66,4	89,7	78,1	67,4	92,0	79,9
Total	100	100	100	100	100	100	100	100	100

Source: TURKSTAT, Health Interview Survey 2012

Table 4.4. Current Alcoholic Drink Consumers' First Alcoholic Drink Consumption Age by Sex, (%), 2012

Age at First Use of Alcohol	Male	Female	Total
<10	1,1	0,3	0,9
10-14	7,6	5,2	7,1
15-19	55,5	40,9	52,8
20-24	26,7	34,7	28,2
25-29	6,2	12,4	7,4
30-34	1,8	4,0	2,2
35+	1,1	2,6	1,4
Total	100	100	100

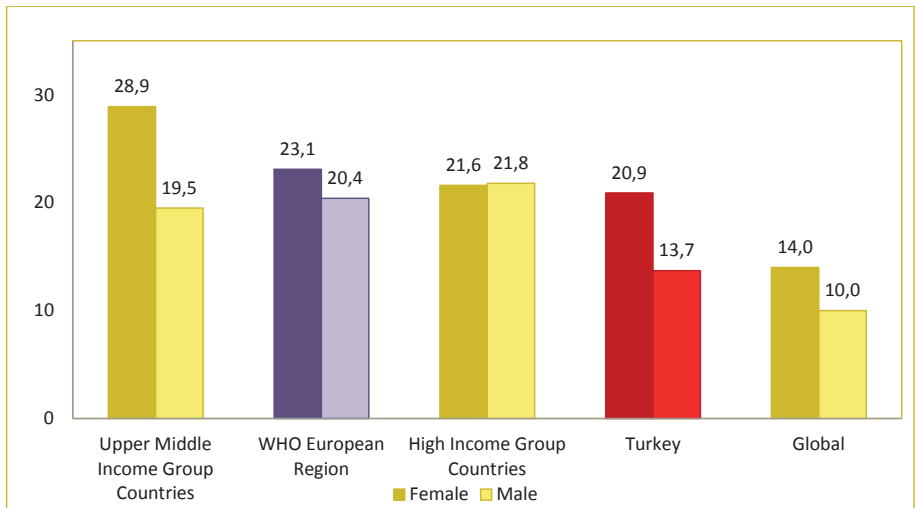
Source: TURKSTAT, Health Interview Survey 2012

Table 4.5. Distribution of Body Mass Index of 15 and Over Aged Individuals' by Sex and Residence, (Self-Reported), (%), 2012

	Rural			Urban			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Underweight	2,4	4,7	3,5	2,7	5,3	4,0	2,7	5,1	3,9
Normal	44,7	42,2	43,4	44,7	44,2	44,5	44,7	43,6	44,2
Overweight	38,1	32,1	35,2	39,4	29,7	34,6	39,0	30,4	34,8
Obese	14,8	21,1	17,9	13,3	20,8	17,0	13,7	20,9	17,2

Source: TURKSTAT, Health Interview Survey 2012

Figure 4.3. International Comparison of Obese (BMI \geq 30) Individuals by Sex, 2008



Source: TURKSTAT Health Interview Survey 2012, WHO World Health Statistics 2014
 Note: Turkey's data belongs to 2012.

Table 4.6. Distribution of Height and Weight Average of 15 and Over Aged Individuals by Age Groups and Sex, (Self-Reported), 2012

Age Group	Weights (kg)			Heights (cm)		
	Male	Female	Total	Male	Female	Total
15-24	68,4	58,1	63,2	173,5	162,8	168,2
25-34	77,2	64,8	71,1	175,0	162,8	169,1
35-34	81,2	71,0	76,2	173,5	162,1	168,0
45-54	80,4	74,9	77,7	171,9	161,4	166,9
55-64	79,2	75,8	77,5	171,2	160,2	165,9
65-74	76,9	72,6	74,6	169,9	159,4	164,7
75+	72,2	66,7	69,1	168,6	157,5	162,5
Turkey	76,7	67,8	72,3	173,1	161,8	167,6

Source: TURKSTAT, Health Interview Survey 2012

Table 4.7. Distribution of Weight, Height and Body-Mass Index Z-Scores of Children (Age 7-8) by Residence (%), 2013

	Boys			Girls			Total
	Rural	Urban	Total	Rural	Urban	Total	
Weight Z-Score							
Severe Underweight	1,0	0,0	0,2	0,2	0,1	0,2	0,2
Underweight	3,2	1,8	2,1	3,1	1,9	2,1	2,1
Normal	92,9	87,8	88,6	93,7	91,5	91,9	90,2
Heavy	1,5	7,5	6,5	2,5	5,4	4,9	5,7
Very Heavy	1,5	2,8	2,6	0,4	1,1	1,0	1,8
Height Z-Score							
Severe Stunting	0,2	0,1	0,1	0,4	0,1	0,2	0,1
Stunting	5,4	1,5	2,1	5,6	1,7	2,4	2,3
Normal	93,9	95,0	94,8	93,7	96,3	95,8	95,3
Tall	0,5	3,1	2,7	0,2	1,7	1,4	2,0
Very Tall	0,0	0,3	0,3	0,0	0,2	0,2	0,2
BMI Z-Score							
Severe Thinness	0,2	0,3	0,3	0,0	0,2	0,2	0,3
Thinness	2,2	1,8	1,9	1,3	1,7	1,7	1,8
Normal	82,8	72,9	74,5	85,0	74,6	76,5	75,5
Overweight	11,1	13,7	13,3	10,5	16,0	15,0	14,2
Obesity	3,7	11,2	10,0	3,1	7,4	6,6	8,3

Source: Ministry of Health, Turkish Childhood (Age 7-8) Obesity Research (COSI-TUR) 2013

Table 4.8. Distribution of the Opinions of the Individuals 18 and Over Aged About What Prevents Their Behaviors to Be Healthy, (%), 2013

Cause of Prevention	%
None	25,1
Lack of Financial Opportunities	3,5
Lack of Facilities in the Location of Residence	1,9
Unable to do as a result of family responsibilities	1,7
Not Giving up Habits	1,2
Transportation Problems	1,0
Inadequate Information	0,9
Find it Hard to do	0,9
Lack of Support from Family Members and/or Friends	0,7
Not to Know How to Start	0,5
Being Disabled	0,3
Not to be Allowed by Family/Partner/Neighborhood	0,3

Source: Ministry of Health, Development of Health in Turkey Research Report 2013
 Note: A percentage has been taken for every line per the total number of people.

Table 4.9. Receiving Information Status about Health of Individuals 18 and Over Aged and the Distribution of the Information Resources (%), 2013

		%	
From People	Receiving Information Status	Yes	81,9
		No	18,1
		Health Workers	85,4
		Family Circle	17,9
	Information Resource	Pharmacist	7,0
		Friends	5,6
		Neighbors	1,3
		School Circle	0,8
		Colleagues	0,4
From Communication Tools	Receiving Information Status	Yes	70,5
		No	29,5
		Television	76,4
		Internet	26,8
		Newspapers	10,0
	Information Resource	Mobile Phones, Smart Phones	8,3
		Radio	3,2
		Posters	2,8
		Brochures	2,5
		Magazines	2,4
		Books	2,4
		Advertising Boards	1,4

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 4.10. The Status of the 18 and Over Aged Individuals Having Regular Breakfast, (%), 2013

The Status of Having Regular Breakfast (%)	
I do not have Breakfast	6,6
I have Breakfast only on the Weekends	2,6
I sometimes have Breakfast during the Week	6,3
I have Breakfast Everyday during the Week	4,8
I have Breakfast Everyday	79,6

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 4.11. The Distribution of the Habits of Eating Fresh Fruit and Vegetable of the Individuals 18 and Over Aged, (%), 2013

	Frequency of Eating Fresh Fruit %	Frequency of Eating Fresh Vegetable %
Once a Day	44,6	40,6
Once Every Two Days	22,3	23,8
Once Every Three Days	14,6	16,5
Once or Twice a Week	14,1	16,6
Never	4,4	2,4

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 4.12. Distribution of the Habits and Reasons of Skipping a Meal of the Individuals 18 and Over Aged (%), 2013

		%
Skipping a Meal	No	63,4
	Yes	36,6
Reasons of Skipping a Meal <i>(A percentage has been taken for every line per the total number of people)</i>	Not Wanting	12,2
	Being Late	9,5
	Lack of Time	9,3
	Not Accustomed To	4,8
	Snacking and Not Getting Hungry	2,6
	Want to Lose Weight	1,3
	Lack of Financial Opportunities	1,0
	Absence of Someone Preparing Meal	0,5

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 4.13. Distribution of the Consumption Frequencies of Some Foods and Drinks by Children (Age 7-8) According to the Statements of Parents (%), 2013

Foods	Every Day	4-6 Times A Week	1-3 Times A Week	Never
Fresh Fruit	42,8	23,3	32,5	1,4
Vegetables	18,3	26,3	47,2	8,3
100% Canned Fruit Juice	14,2	13,9	50,2	21,7
Freshly Squeezed Fruit Juice	5,8	11,5	47,0	35,6
Carbonated Drinks Including Sugar	4,2	8,5	50,3	37,0
Diet Carbonated Drinks	1,7	2,2	10,7	85,4
Low-Fat/Semi-Skimmed Milk	23,6	15,4	29,0	32,0
Whole Milk	27,9	18,1	30,9	23,1
Flavoured Milk	8,3	8,8	35,6	47,3
Cheese	51,0	16,5	22,1	10,5
Ayran (Drink made of yoghurt and water)	28,7	25,7	41,2	4,3
Yoghurt	36,9	26,9	31,0	5,2
Pudding with Milk	5,9	11,6	59,2	23,3
Red Meat, Chicken, Turkey	9,8	30,1	55,0	5,1
Fish	4,1	9,2	67,0	19,7
Egg	42,4	28,1	25,4	4,1
Dry Legumes	8,8	28,6	56,4	6,2
Dried Nuts	13,8	23,7	56,6	6,1
Grains, Bread	43,1	30,4	25,3	1,2
Chips, Pop Corn	8,7	13,4	59,6	18,3
Candy Bars or Chocolate	14,4	22,0	55,8	7,8
Biscuit, Cake, Cookie, etc.	16,5	26,2	53,6	3,7
Pizza, Turkish Bread with Ground Meat, Fried Potato Chips, Burger etc.	4,2	12,6	66,1	17,2

Source: Ministry of Health, Turkish Childhood (Age 7-8) Obesity Research (COSI-TUR) 2013

Table 4.14. Distribution of the Issues that the Individuals 18 and Over Aged Pay Attention to in Their Shopping for Food, (%), 2013

	%
Fresh Fruit and Vegetable	55,3
Expiry Date	55,2
Price	43,4
Reliable Brands	16,3
Known Brands	14,6
Proper Packaging	12,4
Packaged Product	12,4
Appearance	12,3
Food Safety Standards (Like TSE, HACCP)	11,3
Reliability of the Shopping Place	7,7
Ingredients/Nutritional Value	4,3
The Expression Stating that the Product helps to protect health	3,3
The Expression/Picture over Package	2,1
Publicized Product	1,2
Product Being Sold with Gift	1,0
None	6,9

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Note: A percentage has been taken for every line per the total number of people.

Table 4.15. Hand-Washing Habit of the 18 and Over Aged Individuals, (%), 2013

	Washing Hands before the Meal	Washing Hands after the Meal	Washing Hands after Using the Toilet	Washing Hands before Eating Anything	Washing Hands before Preparing the Food
Never	0,2	0,2	0,2	0,4	0,4
Rarely	0,9	1,1	0,2	2,5	1,0
Sometimes	6,5	8,1	1,8	13,8	7,2
Mostly	20,5	21,0	12,0	19,4	15,9
Always	71,8	69,5	85,9	63,9	75,4

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 4.16. Distribution of the Reasons not to Wash Their Hands of the Individuals 18 and Over Aged, (%), 2013

Reasons not to Wash Hands	%
Forgetting About it	35,3
Absence of Faucet/tap or Facility to Wash Hands	26,7
Not Need To	8,4
Being Very Busy - Lack of Time	7,5
Lack of Soap and Other Hand Sanitizers	5,3
Unhygienic Environment to Wash Hands	4,5
Difficult Access to Faucet	2,9
Adverse Effects Soap and Other Sanitizers Have on my Hands	2,2

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Not: A percentage has been taken for every line per the total number of people.

Table 4.17. Average Sleep Durations of the Individuals 18 and Over Aged By Sex, (Hour/ Day), 2013

	Average Sleep Duration
Female	7,282
Male	7,296
Total	7,289

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 4.18. Status of Sleep Problem of the Individuals 18 and Over Aged, and Their Solutions for This Problem, (%), 2013

		%
I Have a Sleep Problem	Yes	23,7
	No	76,3
Sleep Problem <small>(A percentage has been taken for every line per the total number of people)</small>	Sleeping Little	50,3
	Having Problems While Falling Asleep	24,3
	Not Able to Sleep	16,0
	Want to Sleep Always in Daytime/Excessive Daytime Sleepiness	5,9
	Being Told That I Snore While Sleeping	5,0
Solutions for Sleep Problem <small>(A percentage has been taken for every line per the total number of people)</small>	Taking the Sleeping Pills	27,8
	Waking Up and Wandering	21,6
	Not Drinking Tea or Coffee	9,7
	Drinking Something Warm	8,6
	Listening to Music	8,4
	Reading Book	8,1
	Having a Hot Shower	5,3
	Doing Physical Activities	3,4
	Settling the Matters Like Noise Causing Sleep Problems	2,1

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 4.19. Habit of Fastening Seat-Belt of the 18 and Over Aged Individuals, (%), 2013

	In the Front Seat of the Car in the City	In the Back Seat of the Car in the City	In the Front Seat of the Car in the Long Distance	In the Back Seat of the Car in the Long Distance
Always	34,1	9,8	39,7	12,7
Mostly	21,4	10,4	18,1	10,4
Sometimes	16,2	13,6	12,5	14,4
Rarely	10,5	14,8	7,6	12,8
Never	8,9	41,4	8,7	35,7
I did not have such an experience	8,9	9,9	13,4	13,9

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 4.20. The Status of People Having Their Children Under Age Ten Sit on the Child Seat and Buckle Up While Travelling in Automobiles, (%), 2013

	Those with Children Aged 0-5	Those with Children Aged 6-10
In their own special automobile seat, in the front seat without being buckled up	3,7	2,1
In their own special automobile seat, in the front seat with being buckled up	1,5	0,9
In the back seat in their own special automobile seat, with being buckled up	17,3	7,3
In the back seat in their own special automobile seat, without being buckled up	3,3	5,0
In the front seat, sitting on the lap of their mother or an adult	6,1	1,5
Alone in the front seat with being buckled up	0,4	2,2
Alone in the front seat, without being buckled up	0,6	0,8
In the back seat, sitting on the lap of their mother or and adult	48,5	35,3
Alone in the back seat with being buckled up	12,5	20,7
Alone in the back seat without being buckled up	6,5	24,0

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 4.21. The Status of 18 and Over Aged Individuals Using Cell Phones While Driving, (%), 2013

The Status of Using Cell Phones While Driving	%
No, I don't	56,1
I sometimes do	28,2
I mostly do	14,3
I do not have a cell phone	1,4

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 4.22. The Status of the Levels of Doing Physical Activities of the 18 and Over Aged Individuals, (%), 2013

	Light	Moderate	Heavy
Female	58,0	20,2	6,2
Male	53,0	25,3	15,9
Total	55,5	22,7	11,0

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Note: A percentage was taken through the total for every line.

Table 4.23. The Distribution of the Status of the 18 and Over Aged Individuals with Walking Opportunities in the Walking Distance to Their Houses, (%), 2013

		%
Walking Opportunity	Available	59,9
	Not available	40,1
Available Opportunity <i>(A percentage was taken through the total for every line)</i>	Public Park	55,6
	Walking Path	48,3
	Public Park with Sports Implements	42,8
	Natural Park, Coppice or Forest	21,7
	Astro Turf Pitch	20,8
	Cycle Path	11,9

Source: Ministry of Health, Development of Health in Turkey Research Report 2013

Table 4.24. Distribution of the 15 and Over Aged Individuals' Status of Having Blood Pressure, Blood Cholesterol and Blood Sugar Measurements by Gender and Residence, 2012

	Rural			Urban			Turkey		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Blood Pressure	40,8	56,6	49,0	39,4	56,8	48,1	39,8	56,8	48,4
Blood Cholesterol	22,1	32,9	27,7	24,8	38,4	31,7	24,0	36,7	30,4
Blood Sugar	22,9	35,1	29,3	27,2	42,2	34,7	25,9	39,9	33,0

Source: TURKSTAT, Health Interview Survey 2012

Explanations for Chapter 4

☑ Body mass index is calculated by dividing the individual's body mass (kg) by the square of height.

Underweight	: BMI < 18,5
Normal weight	: 18,5 ≤ BMI < 25
Pre-obesity	: 25 ≤ BMI < 29,9
Obesity	: BMI ≥ 30

☑ **Light Activities:** They are defined as movement/exercise/athletic movements such as regular walks, shopping, chores, driving, and fishing which are at least 10 minutes long at a time in the last 7 days.

☑ **Moderate Activities:** The people who regularly bike, carry a light load, walk fast, milk a cow, extract water from a well, whitewash or paint, work in the garden for at least 10 minutes at a time in the last 7 days are accepted as making movements/doing exercises/sports at moderate level.

☑ **Heavy Activities:** They are defined as (sweaty) movements, with which the heart rate/respiratory rate increases, such as regularly weightlifting, biking fast, swimming, soil spading, playing tennis for at least 10 minutes at a time in the last 7 days.

TURKSTAT, Health Interview Survey 2012

☑ With the 2012 Health Interview Survey, it is intended to reveal the overall health profile of individuals, to obtain the information regarding the health indicator which has an important share in the development indicators showing the development levels of the countries, and to close the information gap in the existing structure. The survey has a nature of both allowing international comparisons and shedding light on national needs.

☑ The sample size of the survey has been calculated in a way to produce estimates on the basis of Turkey total, urban, and rural. By design, the total sample volume has been identified as 14.400 households.

Ministry of Health, Development of Health in Turkey Research Report 2013

It was carried out by the General Directorate of Health Research, Ministry of Health.

Objective of the Research;

☑ Identification of the behaviours and risks related to health in the society and the health status of the society,

☑ Identification of the features of the society's use of health services,

☑ Determination of the socio-economic determinants of health and inequalities of health,

☑ Assessment of the types of health-promoting behaviors in the society,

☑ Creation data in order to use in the planning of health promotion programs at the local and national scales,

☑ Assessment of the awareness in the society regarding health promotion programs,

☑ Determination of the priority problem areas for the health administrators at the regional level,

☑ Obtaining evidence-based information in creation of health policies regarding health promotion.

Population and Sample;

☑ The survey population is all of the households within the boundaries of Turkey. The sample related to all of the interviews made within the scope of survey has been determined by TURKSTAT in a way to represent NUTS-1. Multi-Stage Stratified Probability Cluster Sampling method has been used as the sampling type. Interviews have been made in a total of 9.717 households within the scope of survey. The 81 provinces within the boundaries of Turkey are included within the scope of the survey.

TURKSTAT and Ministry of Health, Global Adult Tobacco Survey 2012

☑It has been implemented with the method of face-to-face interview with 11.536 households and 9.851 individuals in these households who are 15 and over aged, in May 2012. A total of 5.768 households have been selected from 206 blocks with 28 households from each block in the urban areas. Interviews have been completed with 4.917 eligible individuals living in these households. Similarly, a total of 5.768 households have been selected from 206 blocks with 28 households from each block in the rural areas. Interviews have been completed with 4.934 eligible individuals living in these households. In total, 9.859 individuals have been interviewed.

Ministry of Health, Turkish Childhood (Age 7-8) Obesity Research (COSI-TUR-2013)

☑Our country was also included in the 3rd stage of Obesity Research implemented in 21 countries in 2013. The research was conducted in the cooperation of Ministry of Health, Public Health Institution of Turkey, Ministry of National Education, Hacettepe University in the framework of the criteria determined by WHO.

☑The aim of this study is to monitor the growth of the school age children compared to the other countries by participating in an international research. Under the project, the height and weight of the children were measured, a survey regarding the diet and physical activity behaviors of the children was applied to the parents and a survey was conducted regarding the diet and physical activity capacities of 216 schools participating in the research. It is aimed to monitor the change of the growth of the school age children by repeating the research every three years.

☑The research was conducted in 67 provinces that can represent Turkey, 216 schools (163 urban, 53 rural), a 2nd grade with 5.101 students. The field application of the research was carried out in May-June 2013 with 78 teams established in 67 provinces.

☑Within the scope of the research, those at the age of 7-8 among the 2nd grades were evaluated.



Prevention of
Diseases and
Protection of Health

Chapter 5

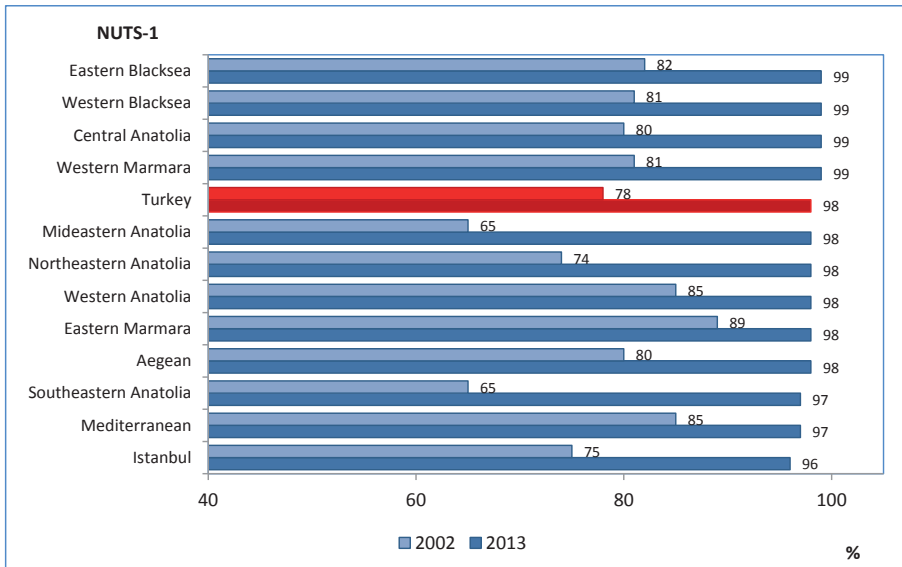
Prevention of Diseases and Protection of Health

Table 5.1. Immunization Coverage by Years, (%), Turkey

	2002	2009	2010	2011	2012	2013
DaPT 1	82	97	98	98	97	97
DaPT 2	80	96	98	98	97	98
DaPT 3	78	96	97	97	97	98
BCG	77	96	97	95	96	96
HBV 3	72	94	96	96	97	97
MMR	82	97	97	98	96	98
CPV 3	-	97	95	96	97	97

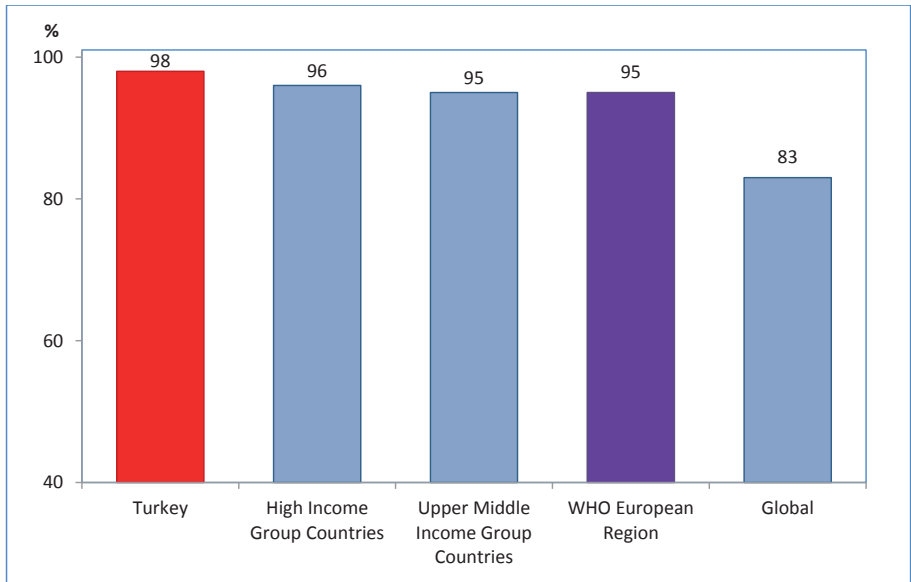
Source: Public Health Institution of Turkey

Figure 5.1. Third Dose Immunization Coverage of 5-Component Combined Vaccine (DaPT+IPV+Hib) by NUTS-1, (%), 2002, 2013



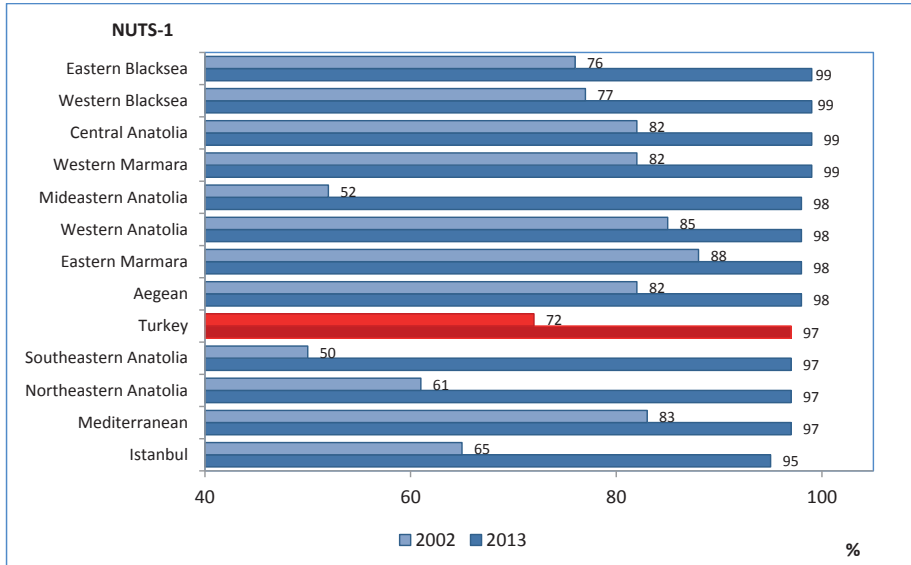
Source: Public Health Institution of Turkey

Figure 5.2. International Comparison of 5-Component Combined Vaccine (DaPT+IPV+Hib) Immunization Coverage (%), 2012



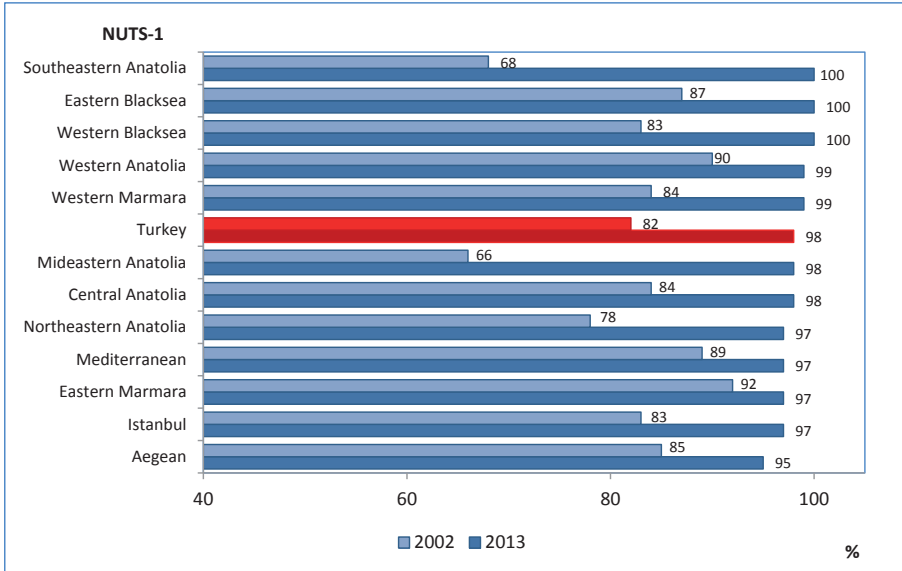
Source: Public Health Institution of Turkey, WHO World Health Statistics 2014
 Note: Turkey's data belongs to the year 2013.

Figure 5.3. HBV-3 Immunization Coverage by NUTS-1, (%), 2002, 2013



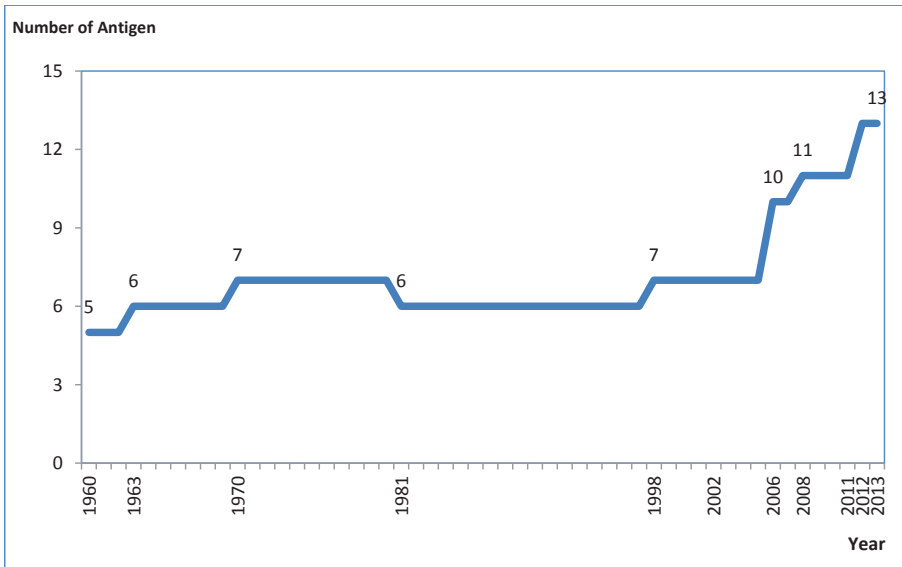
Source: Public Health Institution of Turkey

Figure 5.4. MMR Immunization Coverage by NUTS-1, (%), 2002, 2013



Source: Public Health Institution of Turkey

Figure 5.5. Number of Vaccine Antigens by Years and Vaccine Schedule, Ministry of Health



Source: Public Health Institution of Turkey

Table 5.2. Indicators of Mother and Child Healthcare and Family Planning by Years, Turkey

	2002	2009	2010	2011	2012	2013
Births in Health Care Institution (%)	75	91	92	94	97	98
Antenatal Care Coverage (Minimum One Visit) (%)	70	93	94	95	97	98
Cesarean Sections Among All Births (%)	21,0	42,7	45,5	46,6	48,0	50,4
Primary Cesarean Sections Among All Births (%)	-	27,2	25,7	24,8	24,6	25,9

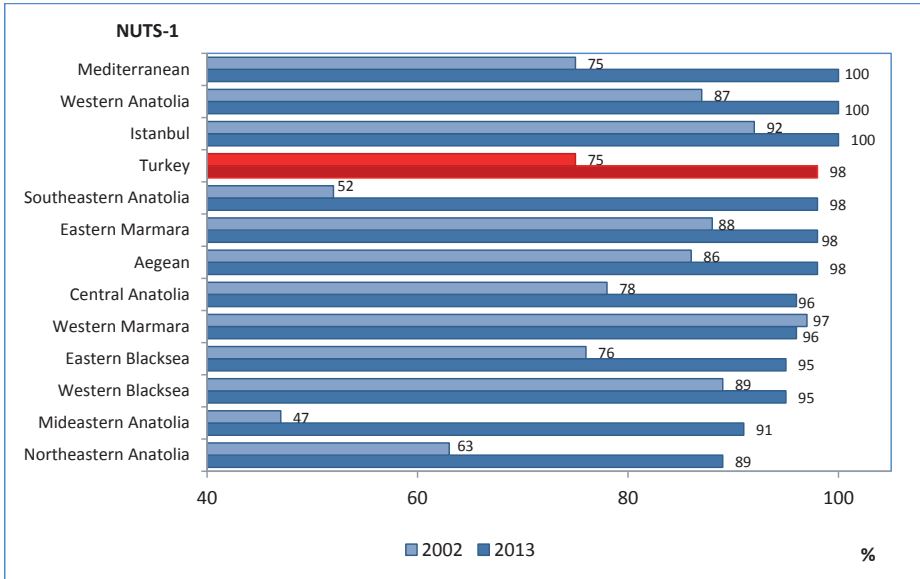
Source: Public Health Institution of Turkey

Table 5.3. Proportions of Births Given at Hospital to Cesarean Section and Primary Caesarean Section, (%), by Years and Sectors, Turkey

	Cesarean Sections Among all Hospital Births (%)					Primary Cesarean Sections Among all Hospital Births (%)				
	2009	2010	2011	2012	2013	2009	2010	2011	2012	2013
Ministry of Health	39,3	40,2	36,8	35,3	36,0	24,3	22,4	17,6	15,4	15,5
University	63,2	65,2	65,9	62,6	63,0	42,6	38,4	37,4	33,6	32,6
Private	61,8	63,7	66,6	66,2	67,9	40,8	36,3	38,3	37,3	38,4
Total	47,8	49,7	49,7	49,6	51,4	30,5	28,0	26,5	25,4	26,4

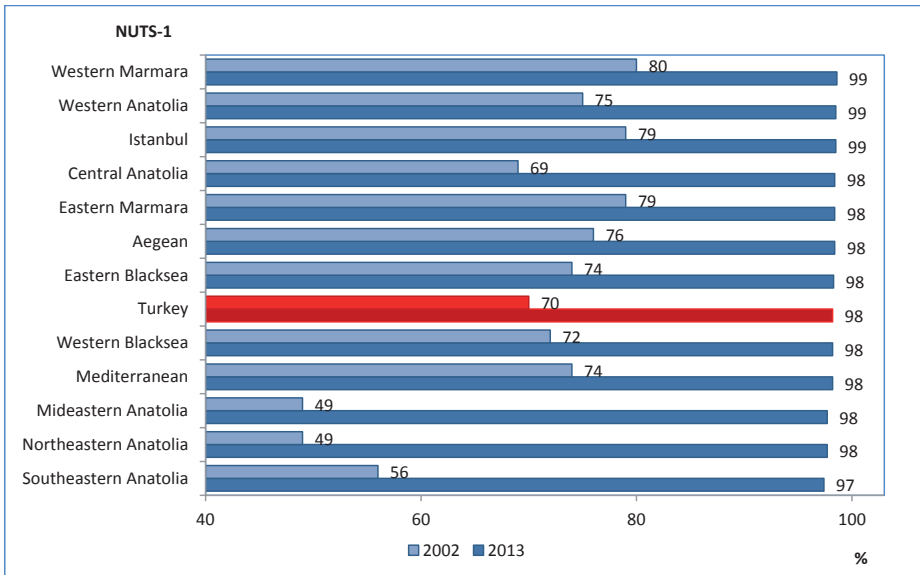
Source: Public Health Institution of Turkey

Figure 5.6. Proportion of Births in Health Care Institution by NUTS-1, (%), 2002, 2013



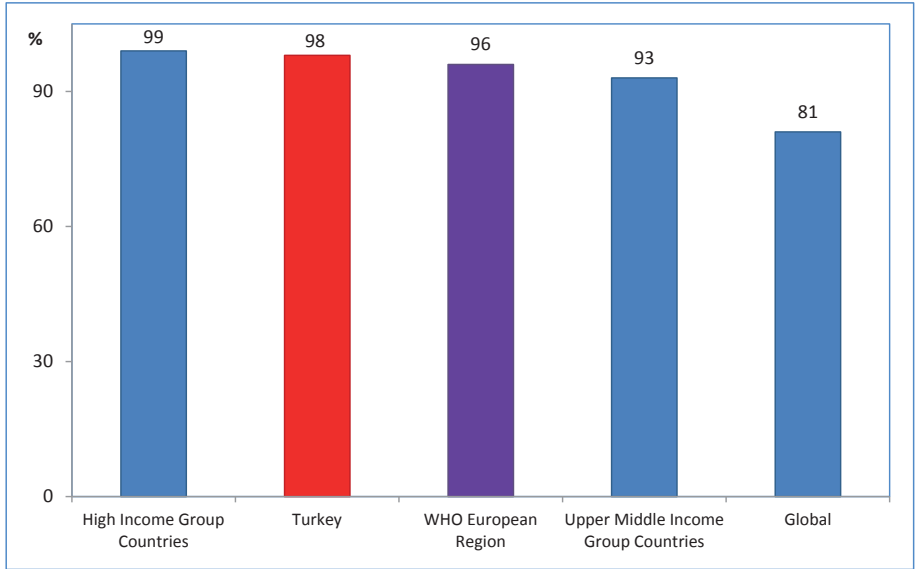
Source: Public Health Institution of Turkey

Figure 5.7. Proportion of Antenatal Care Coverage (Minimum 1 Visit), by NUTS-1, (%), 2002, 2013



Source: Public Health Institution of Turkey

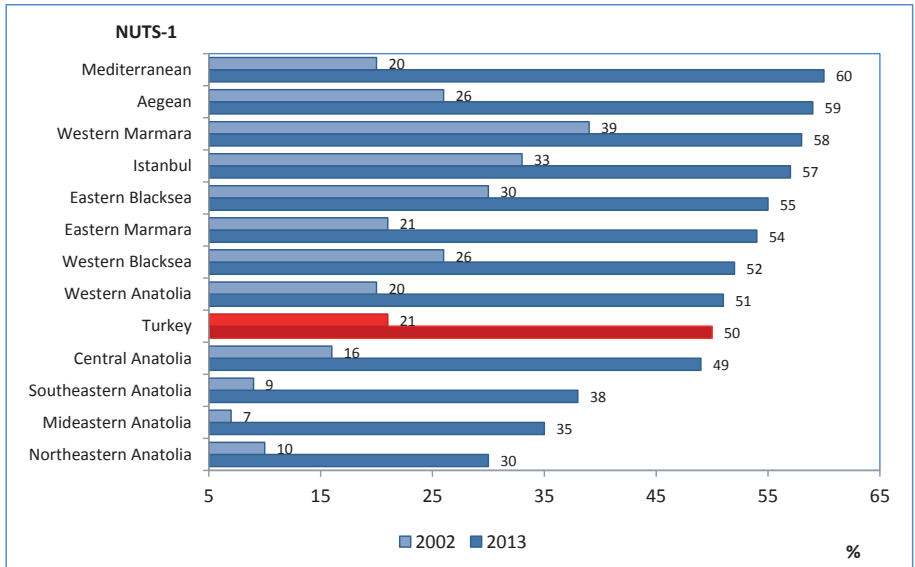
Figure 5.8. International Comparison of Antenatal Care Coverage (Minimum 1 Visit), (%), 2013



Source: Public Health Institution of Turkey, WHO World Health Statistics 2014

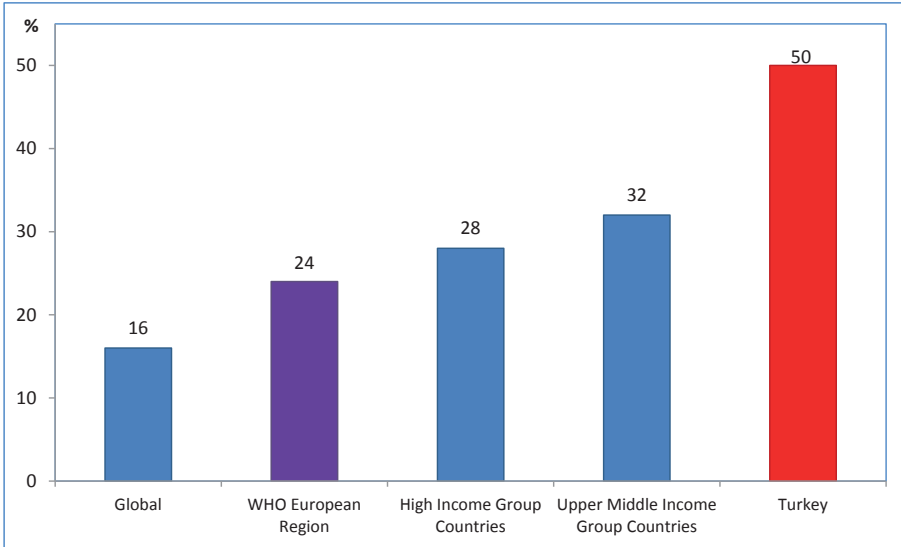
Note: The data for international regions are the data of the latest year between the years 2006-2013.

Figure 5.9. Proportion of Cesarean Sections Among All Births by NUTS-1, (%), 2002, 2013



Source: Public Health Institution of Turkey

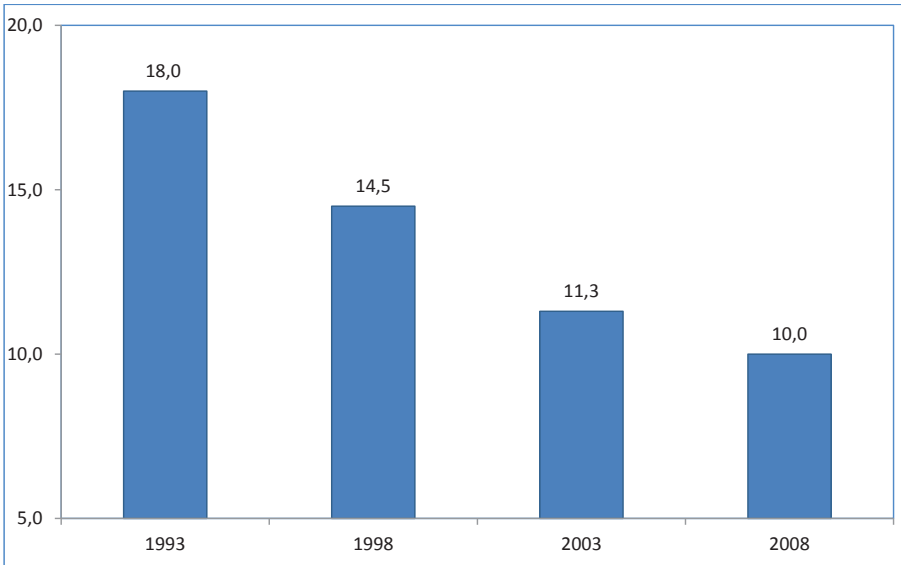
Figure 5.10. International Comparison of Cesarean Sections Among All Births, (%), 2012



Source: Public Health Institution of Turkey, WHO World Health Statistics 2014

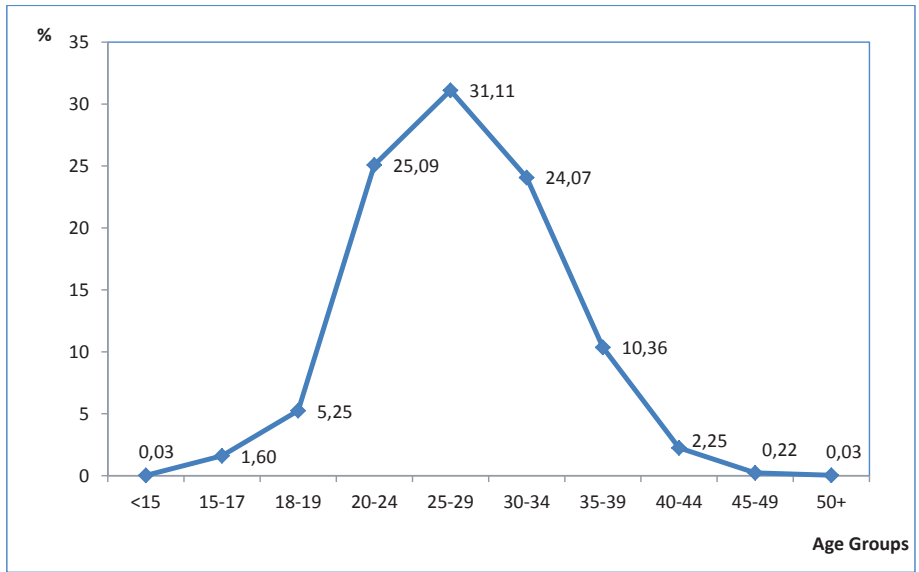
Note: Turkey's data belongs to the year 2013. The data for international regions are the data of the latest year between the years 2006-2012.

Figure 5.11. Proportion of Induced Abort (in 100 Gestation), 1993, 1998, 2003, 2008, Turkey



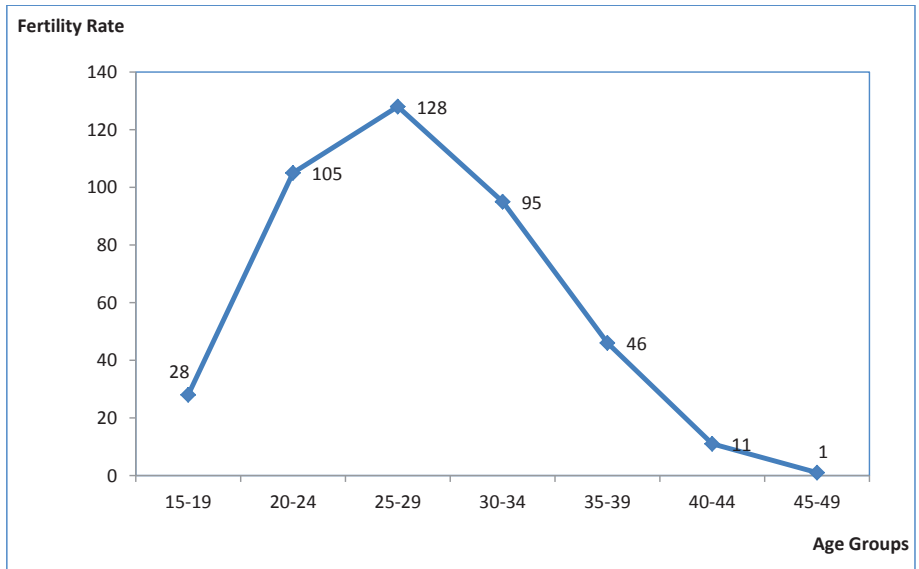
Source: TDHS, 1993, 1998, 2003, 2008

Figure 5.12. Proportion of the Births According to the Age Group of the Mother in All Births, %, 2013, Turkey



Source: TURKSTAT, Birth Statistics, 2013

Figure 5.13. Age-Specific Fertility Rate, 2013, (%), Turkey



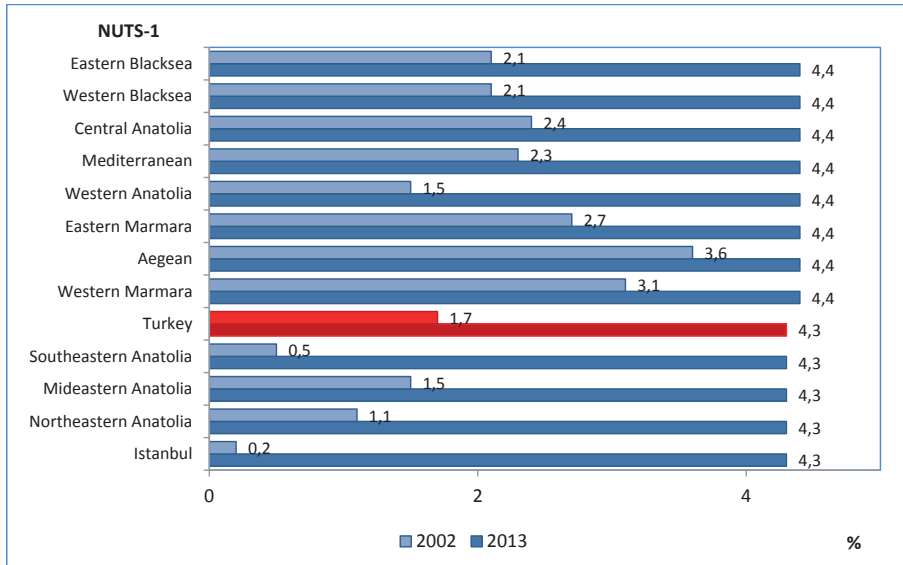
Source: TURKSTAT, Birth Statistics, 2013

Table 5.4. Pregnant, Infant, Child and Puerperant Follow-Up Activities by Years, Turkey

	2002	2009	2010	2011	2012	2013
Average Number of Follow-Ups per Pregnant	1,7	3,6	4,2	4,3	4,1	4,3
Average Number of Follow-Ups per Infant	3,4	6,8	7,1	8,1	8,6	8,8
Average Number of Follow-Ups per Child	1,0	1,6	1,6	2,0	2,2	2,2
Average Number of Follow-Ups per Puerperant	0,7	1,4	1,5	2,0	2,3	2,9

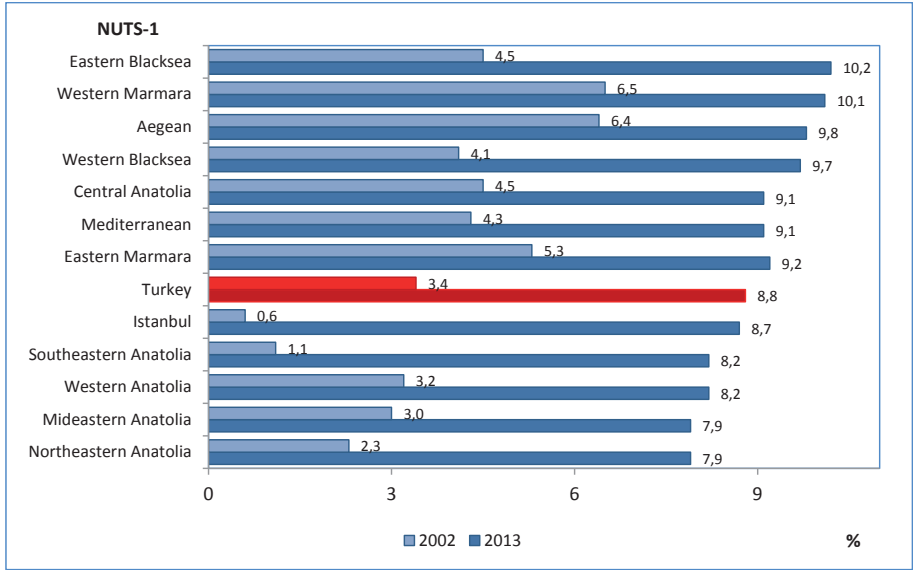
Source: Public Health Institution of Turkey

Figure 5.14. Average Number of Follow-Ups per Pregnant by NUTS-1, 2002, 2013



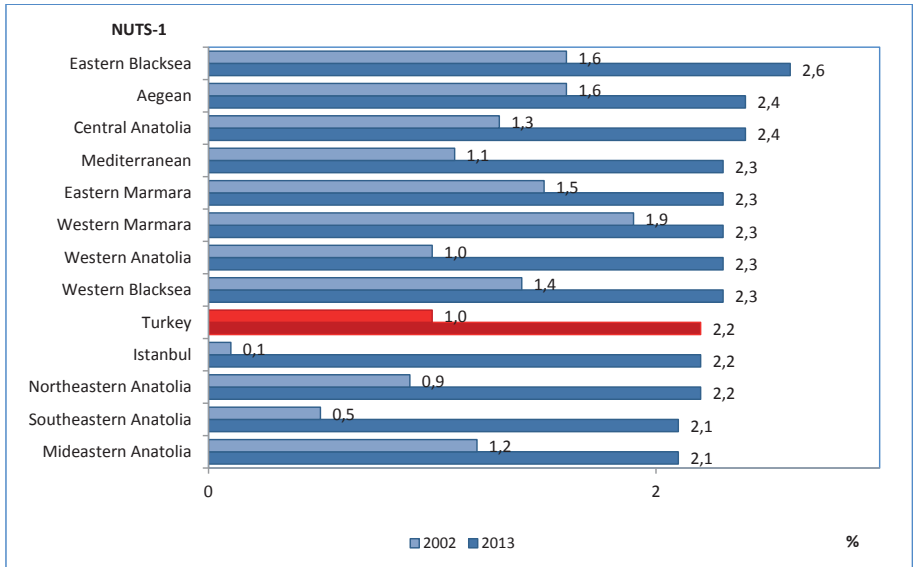
Source: Public Health Institution of Turkey

Figure 5.15. Average Number of Follow-Ups per Infant by NUTS-1, 2002, 2013



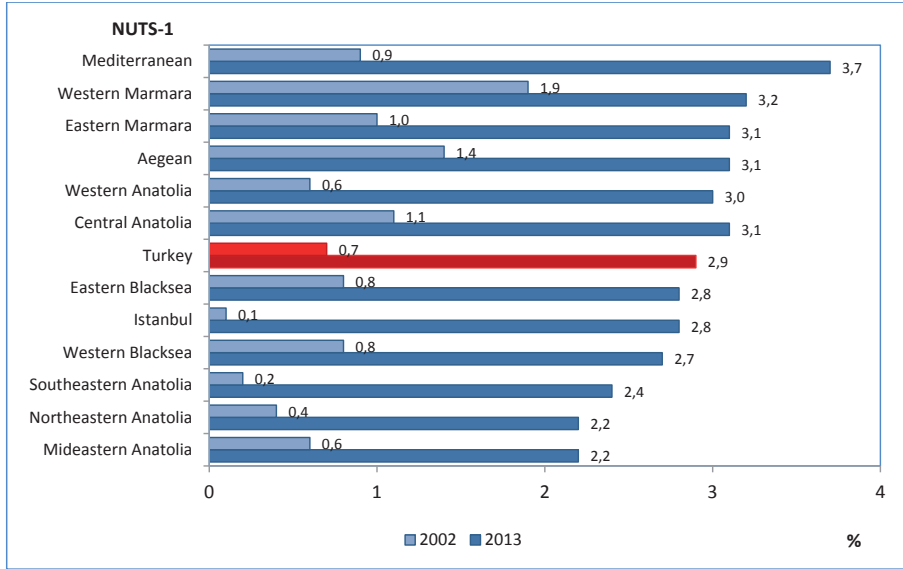
Source: Public Health Institution of Turkey

Figure 5.16. Average Number of Follow-Ups per Child by NUTS-1, 2002, 2013



Source: Public Health Institution of Turkey

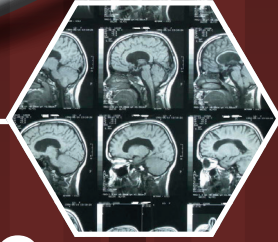
Figure 5.17. Average Number of Follow-Ups per Puerperant Women by NUTS-1, 2002, 2013



Source: Public Health Institution of Turkey

Explanations for Chapter 5

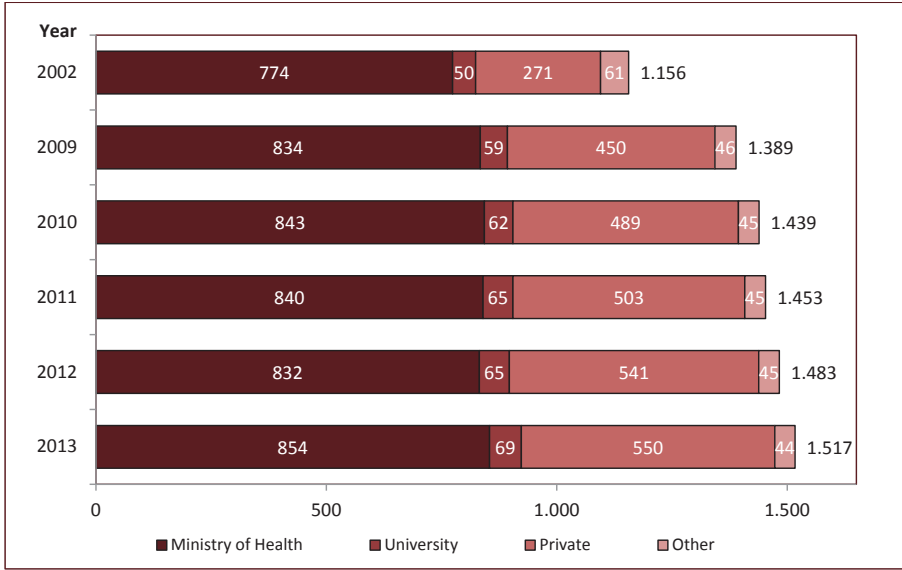
- MMR vaccine was administered as measles vaccine alone before the year 2006.
- The DPT vaccine which had been administered until 2008 was introduced in the form of DaBT + IPV + Hib (5 in one vaccine).
- CPV 3 vaccination started in November 2008.
- The population that was used to calculate the vaccination rates is the target population that was calculated by the Ministry of Health.



Health Care
Facilities and
Infrastructures

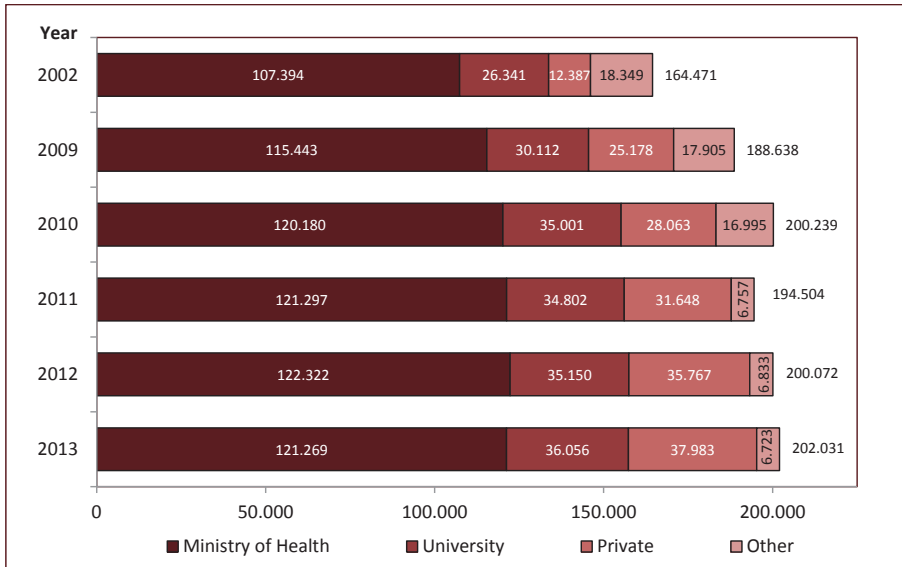
Chapter 6 Health Care Facilities and Infrastructures

Figure 6.1. Number of Hospitals by Years and Sectors, Turkey



Source: General Directorate of Health Services

Figure 6.2. Number of Hospital Beds by Years and Sectors, Turkey



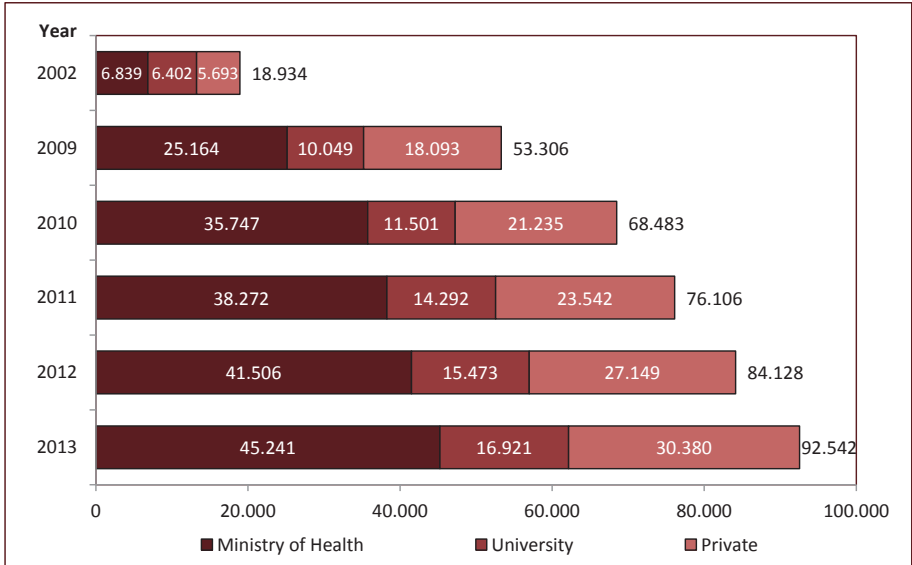
Source: General Directorate of Health Services

Table 6.1. Number of Hospitals and Beds by Branches, Turkey, 2013

Branches	Hospital	Bed
General Hospital	1.377	179.447
Obstetric and Child Hospital	38	6.985
Ophthalmology Hospital	26	588
Physical Treatment and Rehabilitation Center	16	2.078
Chest Diseases Hospital	15	4.068
Psychiatry Hospital	12	4.392
Dental Hospital	9	101
Cardiovascular Diseases Centers	6	860
Child Diseases Hospital	5	1.743
Bone Diseases Hospital	3	535
Occupational Diseases Hospital	2	156
Oncology Hospital	2	830
Orthopedics and Traumatology Hospital	1	29
Surgery Hospital	1	70
Spastic Children's Hospital and Rehab Center	1	54
Lepa Hospital	1	50
Veneral Diseases Hospital	1	31
Hospital for Children with Leukemia	1	14
Total	1.517	202.031

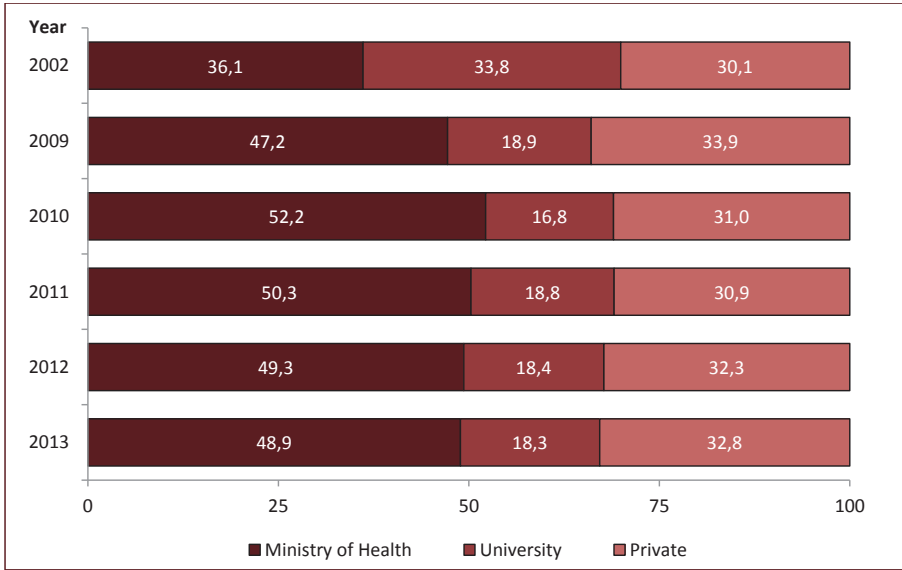
Source: General Directorate of Health Services

Figure 6.3. Number of Qualified Beds by Years and Sectors, Turkey



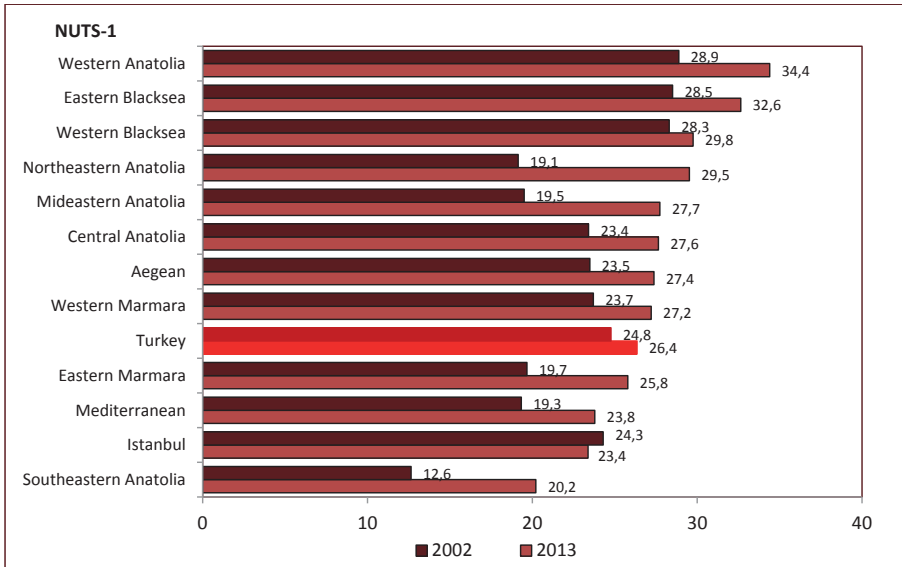
Source: General Directorate of Health Services

Figure 6.4. Distribution of Qualified Beds by Years and Sectors, (%), Turkey



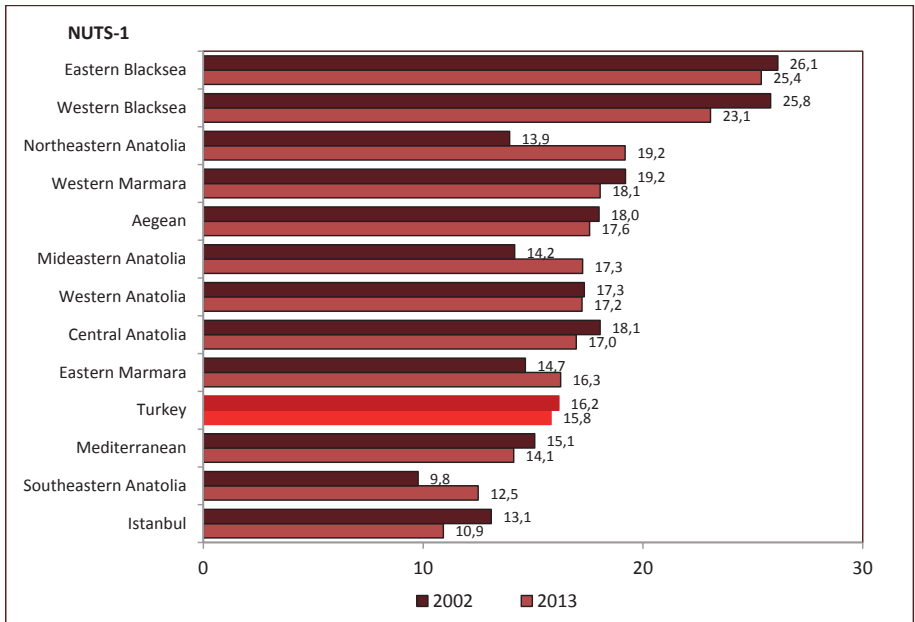
Source: General Directorate of Health Services

Figure 6.5. Number of Hospital Beds per 10.000 Population by NUTS-1, All Sectors, 2002, 2013



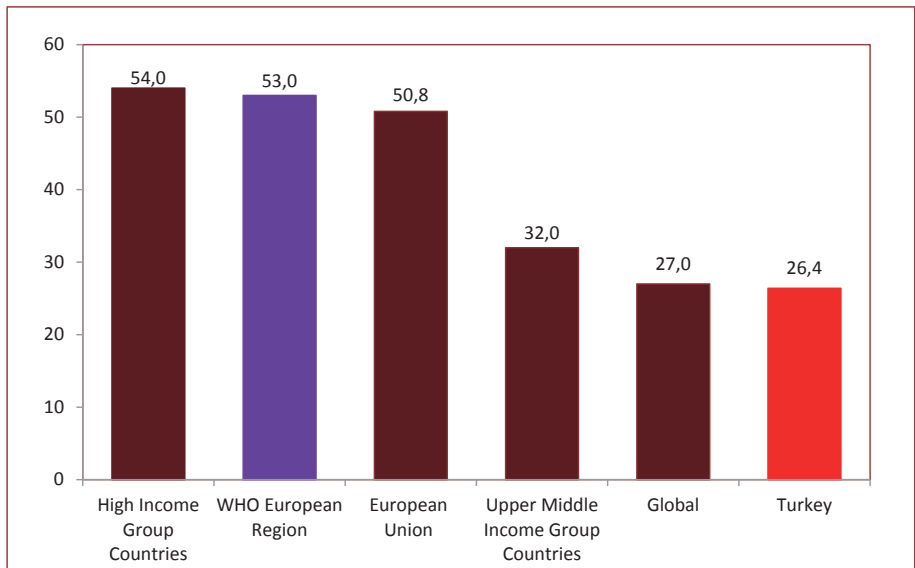
Source: General Directorate of Health Services

Figure 6.6. Number of Hospital Beds per 10.000 Population by NUTS-1, Ministry of Health, 2002, 2013



Source: General Directorate of Health Services

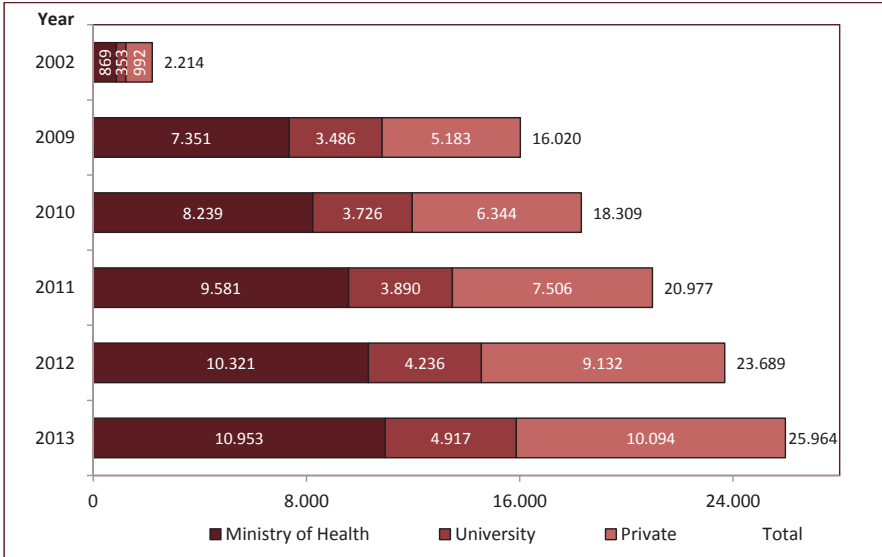
Figure 6.7. International Comparison of Number of Hospital Beds per 10.000 Population, 2012



Source: General Directorate of Health Services, WHO World Health Statistics 2014

Note: Turkey's data belong to the year 2013. The data for international regions are the data of the latest year between the years 2006-2012.

Figure 6.8. Total Number of Intensive Care Unit Beds by Years and Sectors, Turkey



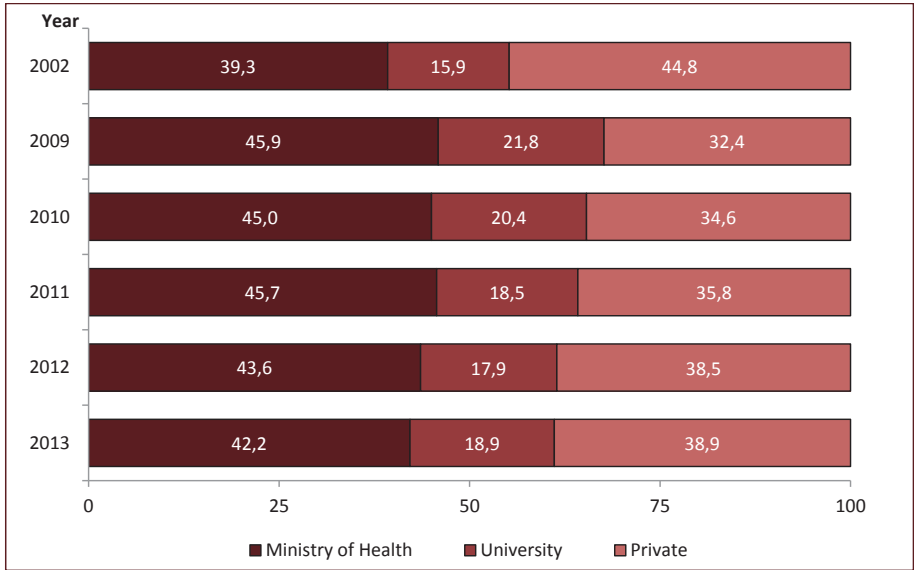
Source: General Directorate of Health Services

Table 6.2. Number of Intensive Care Unit Beds by Types and Sectors, Turkey, 2013

	Ministry of Health	University	Private	Total
Adult	7.233	3.341	6.077	16.651
Child	493	474	30	997
Neonatal	3.227	1.102	3.987	8.316
Total	10.953	4.917	10.094	25.964

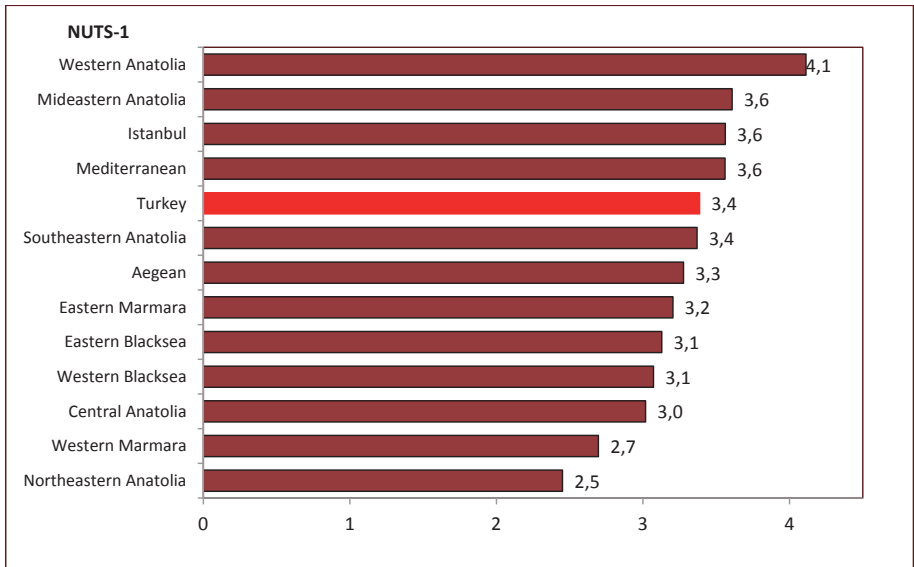
Source: General Directorate of Health Services

Figure 6.9. Distribution of Intensive Care Unit Beds by Years and Sectors, (%), Turkey



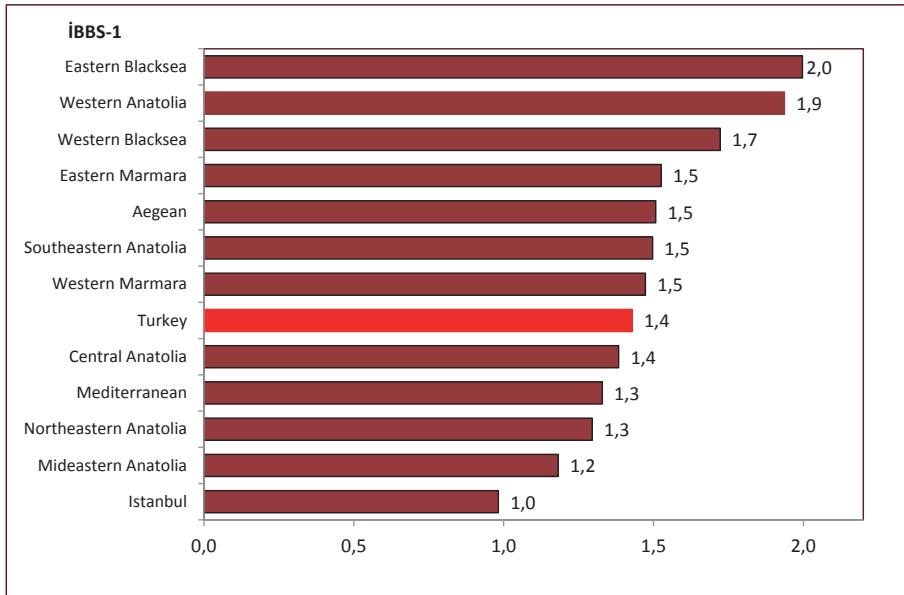
Source: General Directorate of Health Services

Figure 6.10. Number of Intensive Care Unit Beds per 10.000 Population by NUTS-1, All Sectors, 2013



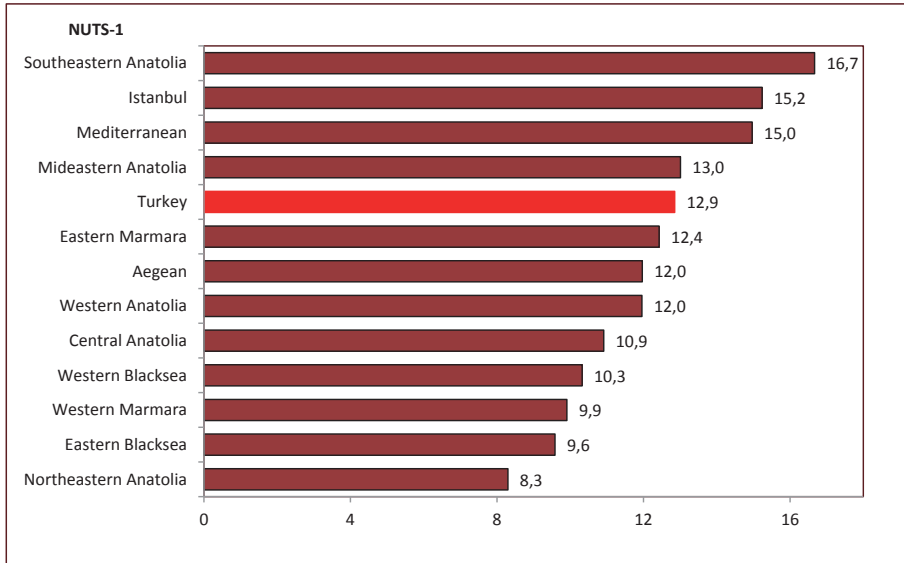
Source: General Directorate of Health Services

Figure 6.11. Number of Intensive Care Unit Beds per 10.000 Population by NUTS-1, Ministry of Health, 2013



Source: General Directorate of Health Services

Figure 6.12. Proportion of Intensive Care Unit Beds to All Beds by NUTS-1, (%), All Sectors, 2013



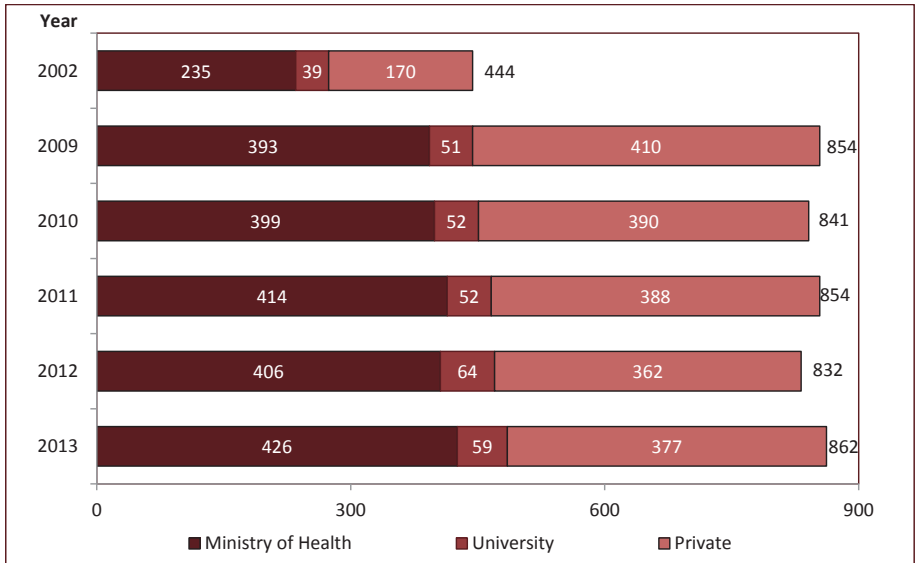
Source: General Directorate of Health Services

Table 6.3. Infrastructure of Operating Room Services in the Inpatient Treatment Facilities by Sectors, 2013, Turkey

	Ministry of Health	University	Private	Total
Surgery	850	176	749	1.775
Operating Room	2.819	924	1.783	5.526
Operating Table	2.955	948	1.840	5.743

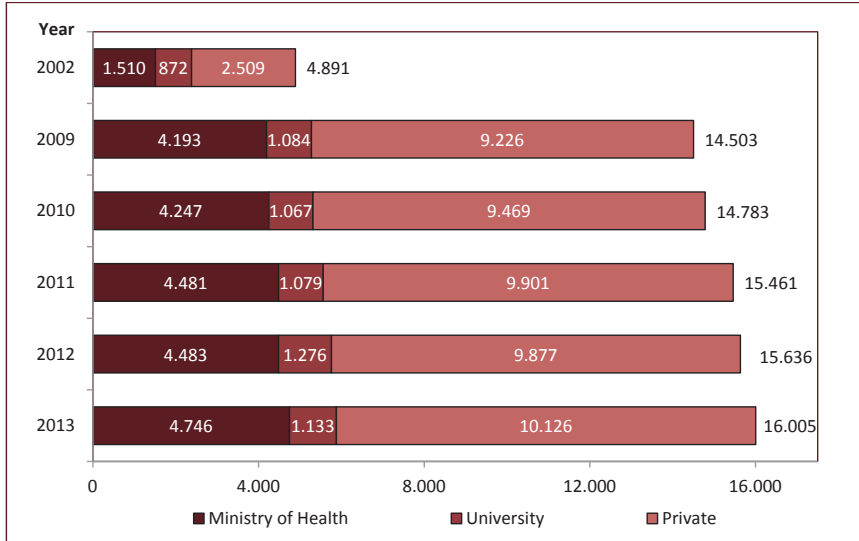
Source: General Directorate of Health Services

Figure 6.13. Number of Hemodialysis Centers by Years and Sectors, Turkey



Source: General Directorate of Health Services

Figure 6.14. Number of Actively Used Hemodialysis Equipments by Years and Sectors Turkey



Source: General Directorate of Health Services

Table 6.4. Actively Used Hemodialysis Equipments per 1.000.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Western Blacksea	122,5	13,8	141,4	277,6
Eastern Blacksea	155,9	4,7	92,4	253,0
Aegean	62,1	16,2	170,7	249,0
Central Anatolia	76,7	15,7	154,9	247,3
Western Anatolia	40,7	34,9	168,8	244,5
Eastern Marmara	66,4	13,9	145,7	226,0
Western Marmara	80,8	5,8	130,2	216,9
Mediterranean	60,5	21,2	130,3	212,1
Turkey	61,9	14,8	132,1	208,8
Istanbul	18,4	8,3	163,8	190,6
Northeastern Anatolia	117,8	10,0	29,9	157,6
Mideastern Anatolia	84,2	19,6	44,5	148,4
Southeastern Anatolia	50,9	5,1	51,8	107,7

Source: General Directorate of Health Services

Table 6.5. Number of Equipments of Inpatient Treatment Institutions by Years, Turkey

	2002	2008	2009	2010	2011	2012	2013
MRI	58	562	625	678	709	750	798
CT	323	759	838	904	974	1.037	1.080
Ultrasound	1.005	2.117	2.283	2.436	3.775	4.282	4.756
Doppler Ultrasound	681	1.095	1.251	1.397	2.091	2.480	2.793
ECHO	259	689	791	881	1.181	1.379	1.542

Source: General Directorate of Health Services

Table 6.6. Number of Equipments of Inpatient Treatment Institutions, Turkey, 2013

	Ministry of Health	University	Private	Total
MRI	251	95	452	798
CT	436	116	528	1.080
Ultrasound	2.648	502	1.606	4.756
Doppler Ultrasonography	1.459	332	1.002	2.793
ECHO	711	221	610	1.542
Mammography	323	76	506	905

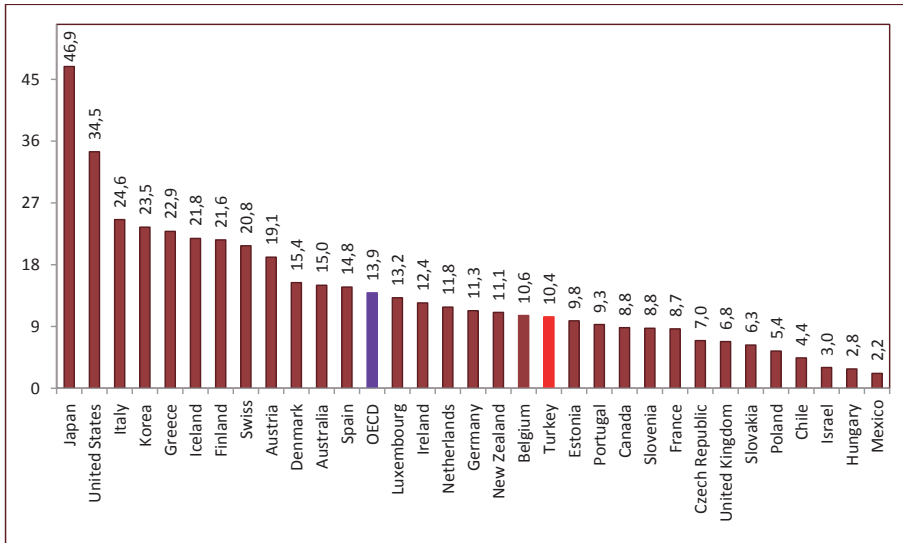
Source: General Directorate of Health Services

Table 6.7. Number of MRI Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Aegean	4,5	1,3	6,8	12,6
Istanbul	2,3	0,8	9,3	12,4
Western Anatolia	3,5	2,9	4,9	11,3
Mediterranean	2,8	1,3	6,3	10,4
Turkey	3,3	1,2	5,9	10,4
Western Blacksea	5,6	1,3	3,1	10,0
Eastern Blacksea	4,7	0,8	4,3	9,8
Western Marmara	3,7	0,9	4,9	9,5
Eastern Marmara	3,3	1,3	4,4	9,0
Mideastern Anatolia	2,9	0,8	5,3	9,0
Central Anatolia	2,6	1,5	4,6	8,8
Northeastern Anatolia	4,1	1,4	2,3	7,7
Southeastern Anatolia	2,1	0,5	4,9	7,5

Source: General Directorate of Health Services

Figure 6.15. International Comparison of Number of MRI Devices in Inpatient Health Care Facilities per 1.000.000 Population, 2012



Source: General Directorate of Health Services, OECD Health Data 2014

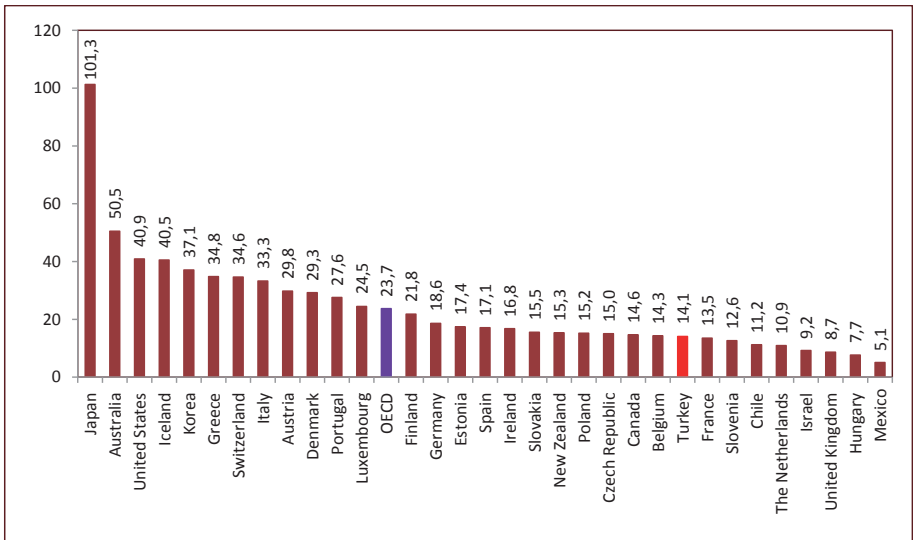
Note: Turkey's data belongs to the year 2013.

Table 6.8. Number of CT Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Western Anatolia	6,2	3,5	6,5	16,3
Western Marmara	6,7	1,8	7,6	16,2
Istanbul	4,2	1,1	10,6	16,0
Aegean	7,1	1,8	6,5	15,4
Eastern Blacksea	9,4	0,8	4,7	14,9
Turkey	5,7	1,5	6,9	14,1
Western Blacksea	8,0	1,3	4,4	13,8
Mediterranean	4,9	1,3	7,4	13,6
Northeastern Anatolia	7,7	1,8	3,6	13,1
Mideastern Anatolia	5,0	1,1	6,9	13,0
Central Anatolia	5,2	1,8	5,2	12,1
Southeastern Anatolia	4,8	0,9	5,7	11,4
Eastern Marmara	4,9	1,0	5,1	11,0

Source: General Directorate of Health Services

Figure 6.16. International Comparison of Number of CT Devices in Inpatient Health Care Facilities per 1.000.000 Population, 2012



Source: General Directorate of Health Services, OECD Health Data 2014

Note: Turkey's data belongs to the year 2013.

Table 6.9. Number of Ultrasound Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Western Anatolia	42,7	15,2	19,3	77,2
Eastern Blacksea	38,8	16,8	15,7	71,3
Central Anatolia	40,3	4,9	23,2	68,4
Northeastern Anatolia	49,8	9,1	8,6	67,5
Aegean	41,8	4,8	16,6	63,2
Mediterranean	33,8	4,7	23,9	62,4
Turkey	34,5	6,5	20,9	62,0
Western Blacksea	45,6	3,3	12,9	61,8
Istanbul	24,4	5,2	31,4	60,9
Western Marmara	33,5	7,9	14,3	55,8
Southeastern Anatolia	28,3	6,2	20,5	55,0
Mideastern Anatolia	35,5	6,6	11,7	53,8
Eastern Marmara	28,1	3,3	22,1	53,5

Source: General Directorate of Health Services

Table 6.10. Number of Doppler Ultrasound Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Western Anatolia	28,0	7,6	12,4	47,9
Eastern Blacksea	28,2	2,3	11,7	42,3
Istanbul	15,9	4,4	20,8	41,0
Eastern Marmara	21,8	2,8	12,1	36,7
Turkey	19,0	4,3	13,1	36,4
Mideastern Anatolia	19,1	2,4	13,5	35,0
Central Anatolia	16,3	5,2	13,4	34,9
Western Marmara	18,3	5,2	11,3	34,8
Aegean	18,2	5,3	11,3	34,8
Mediterranean	17,0	3,5	12,0	32,5
Western Blacksea	21,8	3,3	6,4	31,6
Southeastern Anatolia	15,4	4,0	10,6	30,0
Northeastern Anatolia	15,9	4,1	7,2	27,2

Source: General Directorate of Health Services

Table 6.11. Number of ECHO Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Western Anatolia	10,7	7,3	8,8	26,9
Istanbul	9,2	2,5	12,5	24,2
Eastern Blacksea	15,3	2,0	4,3	21,5
Central Anatolia	9,8	3,4	8,0	21,2
Western Blacksea	12,0	2,9	5,3	20,2
Turkey	9,3	2,9	8,0	20,1
Eastern Marmara	9,0	2,2	7,8	19,0
Aegean	8,7	1,9	8,3	18,9
Mediterranean	7,4	2,8	7,6	17,7
Western Marmara	9,5	1,8	6,1	17,4
Mideastern Anatolia	8,7	1,9	6,4	17,0
Southeastern Anatolia	7,8	2,5	5,2	15,4
Northeastern Anatolia	9,5	2,3	1,8	13,6

Source: General Directorate of Health Services

Table 6.12. Number of Mammography Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Istanbul	2,7	0,7	11,5	14,9
Aegean	6,4	1,3	5,9	13,5
Western Anatolia	5,2	2,2	5,4	12,8
Eastern Blacksea	7,0	0,8	4,7	12,5
Western Marmara	4,3	1,2	7,0	12,5
Mediterranean	4,5	0,8	6,7	12,0
Turkey	4,2	1,0	6,6	11,8
Western Blacksea	6,4	0,7	4,4	11,6
Eastern Marmara	3,6	1,1	5,7	10,4
Central Anatolia	3,1	1,0	5,7	9,8
Mideastern Anatolia	3,2	0,5	5,8	9,5
Northeastern Anatolia	3,6	0,9	3,2	7,7
Southeastern Anatolia	2,6	0,5	4,1	7,2

Source: General Directorate of Health Services

Table 6.13. Number of Specialty Branch Centers and Private Outpatient Clinics by NUTS-1, 2013

NUTS-1	Specialty Branch Centers	Private Outpatient Clinics
Istanbul	293	169
Western Marmara	19	8
Aegean	140	73
Eastern Marmara	71	26
Western Anatolia	118	62
Mediterranean	92	45
Central Anatolia	15	8
Western Blacksea	36	9
Eastern Blacksea	15	5
Northeastern Anatolia	5	1
Mideastern Anatolia	18	3
Southeastern Anatolia	101	4
Total	923	413

Source: General Directorate of Health Services

Table 6.14. Number of the Institutions Providing Oral and Dental Health Care Services by Sectors, 2012

	Ministry of Health		University		Private		Other		Total	
	Institution	Dental Unit	Institution	Dental Unit	Institution	Dental Unit	Institution	Dental Unit	Institution	Dental Unit
Oral and Dental Health Center	121	3.934	-	-	39	411	-	-	160	4.345
Oral and Dental Health Polyclinic	160	519	-	-	-	-	-	-	160	519
Dental Treatment and Prosthetic Center	106	882	-	-	-	-	-	-	106	882
Dental Hospital	4	450	-	-	3	67	-	-	7	517
Dental Training Hospital	1	94	22	2.717	-	-	-	-	23	2.811
Dental Polyclinic (Hospital)	459	1.169	26	256	268	375	42	191	795	1.991
Dental Polyclinic	-	-	-	-	1.009	3.621	-	-	1.009	3.621
Total	851	7.048	48	2.973	1.319	4.474	42	191	2.260	14.686

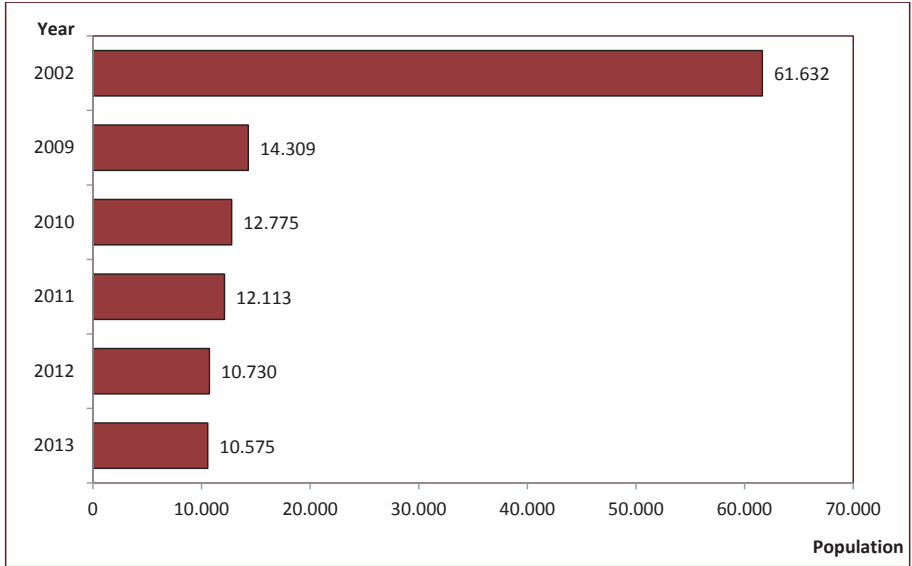
Source: Turkish Institution of Public Hospitals, General Directorate of Health Services

Table 6.15. Number of the Institutions Providing Oral and Dental Health Care Services by Sectors, 2013

	Ministry of Health		University		Private		Other		Total	
	Institution	Dental Unit	Institution	Dental Unit	Institution	Dental Unit	Institution	Dental Unit	Institution	Dental Unit
Oral and Dental Health Center	127	3.949	-	-	59	625	-	-	186	4.574
Oral and Dental Health Polyclinic	208	520	-	-	-	-	-	-	208	520
Dental Treatment and Prosthetic Center	99	861	-	-	-	-	-	-	99	861
Dental Hospital	5	584	-	-	3	62	-	-	8	646
Dental Training Hospital	1	94	23	2.695	-	-	-	-	24	2.789
Dental Polyclinic (Hospital)	499	1.242	22	472	214	358	44	209	779	2.281
Dental Polyclinic	-	-	-	-	1.235	4.530	-	-	1.235	4.530
Total	939	7.250	45	3.167	1.511	5.575	44	209	2.539	16.201

Source: Turkish Institution of Public Hospitals, General Directorate of Health Services

Figure 6.17. Population per Dental Unit by Years, Ministry of Health



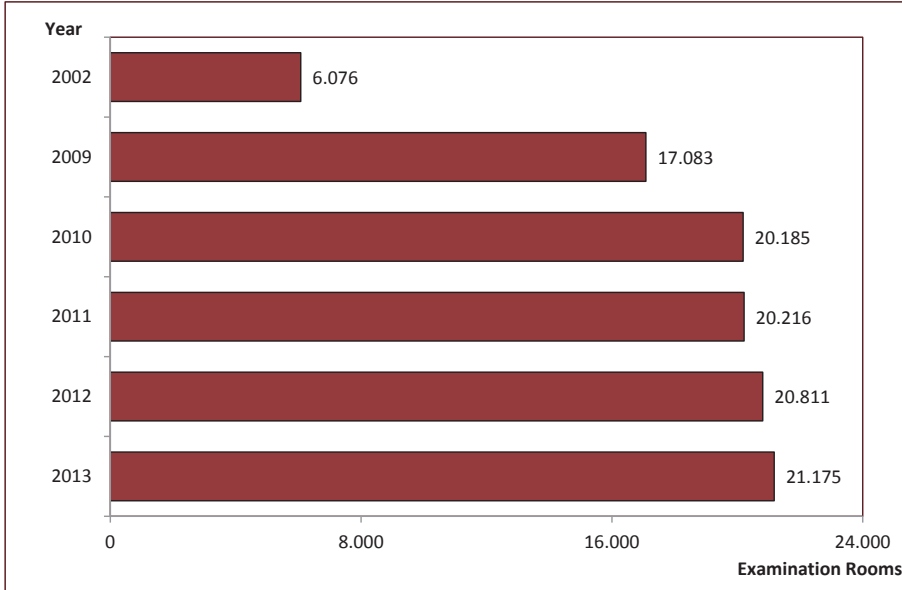
Source: Turkish Institution of Public Hospitals, General Directorate of Health Services

Table 6.16. MoH-Affiliated Primary Health Care Facilities by Years, Turkey

	2002	2009	2010	2011	2012	2013
Health Center	5.055	3.842	-	-	-	-
Family Medicine Unit	-	6.546	20.185	20.216	20.811	21.175
Family Health Center	-	2.086	6.367	6.520	6.660	6.756
Population Health Center	-	429	961	957	957	971
Health House	2.899	2.857	3.292	4.344	5.691	5.594
MCHFP Center	298	220	192	183	189	183
Tuberculosis Control Dispensary	277	229	198	194	179	177
Cancer Early Diagnosis, Screening and Training Centers (KETEM)	84	122	122	124	124	134
112 Emergency Care Station	481	1.317	1.375	1.710	1.863	2.072
Number of Public Health Laboratories	-	-	-	-	-	83

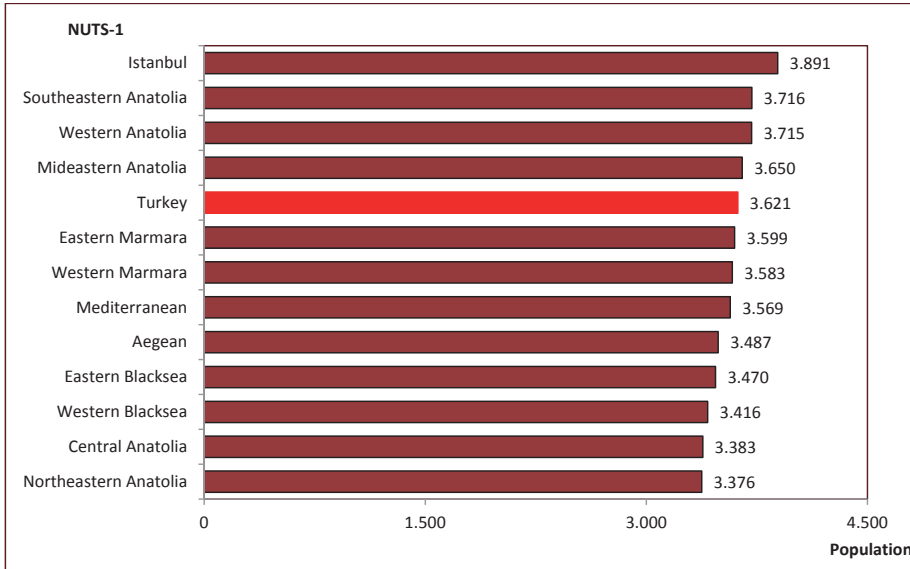
Source: Public Health Institution of Turkey, General Directorate of Emergency Health Services

Figure 6.18. Number of Family Health Center Medical Examination Rooms by Years, Turkey



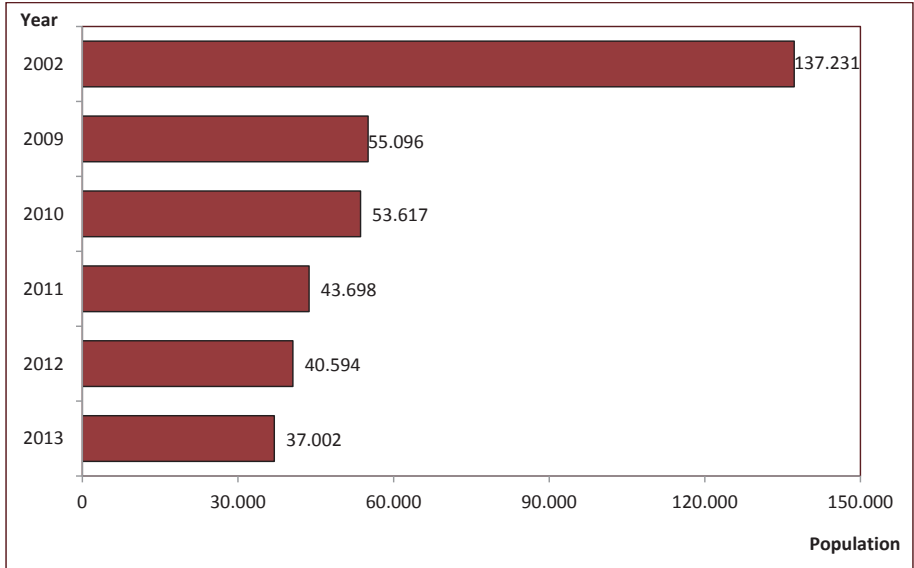
Source: Public Health Institution of Turkey

Figure 6.19. Population per Actively Working Family Medicine by NUTS-1, 2013



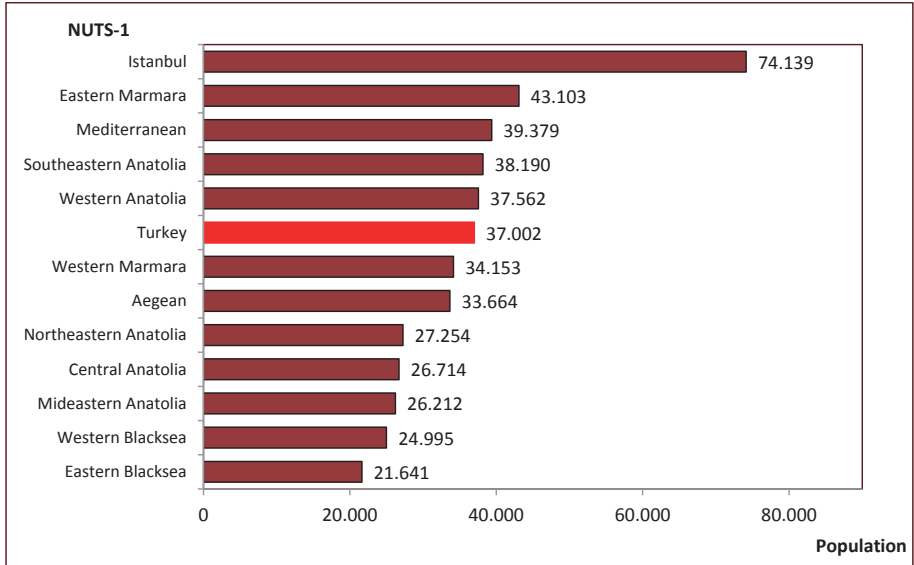
Source: Public Health Institution of Turkey

Figure 6.20. Population per 112 Emergency Aid Station by Years, Ministry of Health



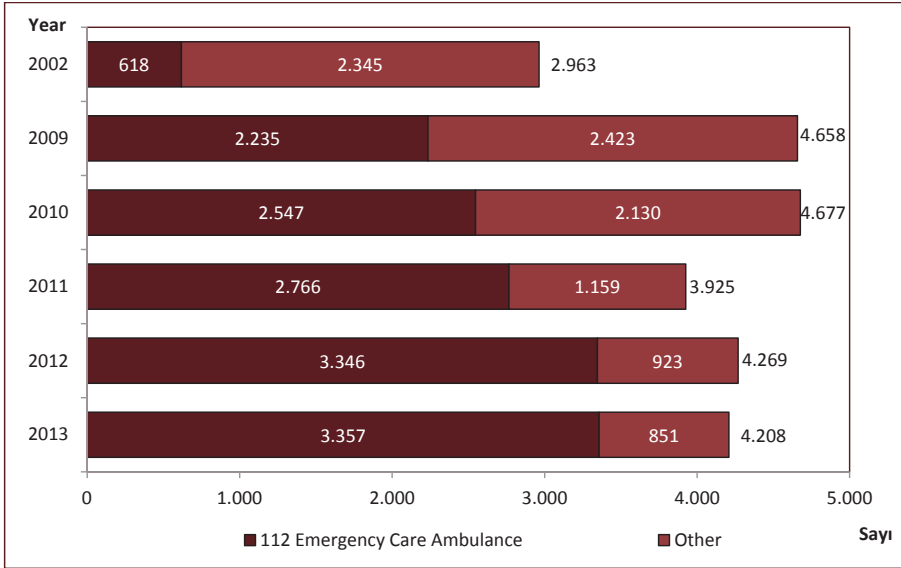
Source: General Directorate of Emergency Health Services

Figure 6.21. Population per 112 Emergency Aid Station by NUTS-1, Ministry of Health, 2013



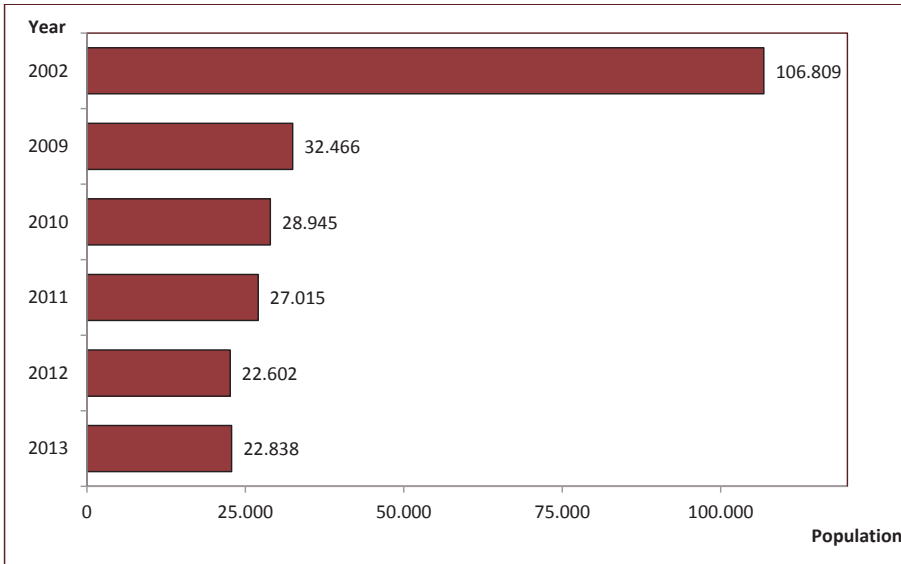
Source: General Directorate of Emergency Health Services

Figure 6.22. Number of Ambulances by Years, Ministry of Health



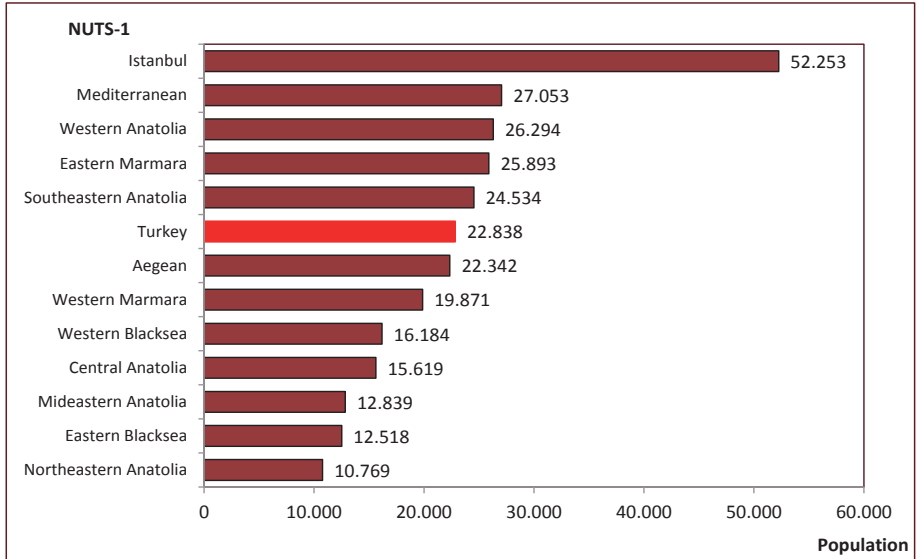
Source: General Directorate of Emergency Health Services

Figure 6.23. Population per 112 Emergency Ambulance by Years, Ministry of Health



Source: General Directorate of Emergency Health Services

Figure 6.24. Population per 112 Emergency Ambulance by NUTS-1, Ministry of Health, 2013



Source: General Directorate of Emergency Health Services

Table 6.17. Number of Vehicle and Transferred Patients by Ambulance Types, Ministry of Health, 2013

	Number of Vehicle	Number of Transferred Patients
Ambulance Helicopter	17	2.407
Air Ambulance	4	1.631
Snow Track Ambulance	296	2.592
Sea Ambulance	4	1.324

Source: General Directorate of Emergency Health Services

Table 6.18. Some Health Indicators by Provinces, Turkey, 2013

City	Hospital	Bed	Number of Hospital Beds per 10,000	Qualified Beds	Intensive Care Unit Beds	Number of Family Medicine Unit	Population per Family Medicine Unit	Number of 112 Emergency Care Station	Population per 112 Emergency Care Station	Number of 112 Emergency Care Ambulance	Population per 112 Emergency Care Ambulance
Adana	29	6.317	29,4	2.545	971	608	3.535	44	48.847	62	34.665
Adıyaman	9	1.019	17,1	428	131	176	3.393	24	24.883	28	21.328
Afyonkarahisar	21	1.966	27,8	1.178	211	205	3.449	30	23.571	52	13.599
Ağrı	11	821	14,9	548	50	148	3.724	12	45.931	33	16.702
Amasya	7	820	25,5	432	65	101	3.188	12	26.831	17	18.940
Ankara	84	18.032	35,7	7.320	2.151	1326	3.805	126	40.040	184	27.419
Antalya	43	5.046	23,4	3.094	732	572	3.773	50	43.165	70	30.832
Artvin	8	355	21,0	168	18	51	3.320	20	8.467	27	6.272
Aydın	22	2.728	26,7	1.649	340	288	3.545	24	42.540	34	30.028
Balıkesir	29	2.955	25,4	1.267	317	328	3.545	31	37.508	41	28.360
Bilecik	8	355	17,0	114	32	63	3.316	8	26.111	15	13.926
Bingöl	8	658	24,8	214	47	79	3.361	14	18.965	30	8.850
Bitlis	9	795	23,6	437	50	91	3.705	10	33.716	38	8.873
Bolu	11	1.414	49,9	686	126	87	3.259	14	20.250	35	8.100
Burdur	8	682	26,5	273	72	80	3.216	18	14.293	24	10.719
Bursa	40	6.509	23,7	3.050	856	753	3.640	49	55.938	61	44.934
Çanakkale	15	1.415	28,2	546	101	135	3.721	20	25.116	32	15.698
Çankırı	9	439	23,0	232	34	49	3.896	17	11.230	27	7.071
Çorum	16	1.404	26,4	481	137	169	3.148	22	24.185	34	15.649
Denizli	22	2.513	26,1	946	327	276	3.491	29	33.223	44	21.897
Diyarbakır	24	4.699	29,2	2.254	880	424	3.791	53	30.329	68	23.639
Edirne	10	1.927	48,3	667	163	115	3.466	14	28.470	33	12.078
Elazığ	13	2.907	51,2	948	331	171	3.323	25	22.730	37	15.358
Erzincan	11	644	29,3	355	51	70	3.143	11	20.000	29	7.586
Erzurum	24	3.586	46,8	2.134	317	239	3.208	23	33.336	66	11.617
Eskişehir	19	3.487	43,6	1.180	401	226	3.539	27	29.619	41	19.505
Gaziantep	25	4.450	24,1	2.202	825	482	3.827	33	55.892	53	34.801
Giresun	17	1.398	32,9	642	117	122	3.484	21	20.238	29	14.655
Gümüşhane	6	334	23,6	176	22	42	3.367	9	15.712	26	5.439
Hakkari	4	398	14,6	272	35	64	4.266	15	18.203	33	8.274
Hatay	22	2.739	18,2	1.275	462	408	3.684	30	50.102	43	34.955
Isparta	17	1.962	47,0	800	243	130	3.214	18	23.210	28	14.921
Mersin	24	3.360	19,7	1.147	577	486	3.510	45	37.906	58	29.410
İstanbul	233	33.104	23,4	16.190	5.044	3639	3.891	191	74.139	271	52.253
İzmir	59	11.361	28,0	4.253	1.512	1138	3.569	90	45.123	114	35.623
Kars	7	772	25,7	426	72	86	3.499	13	23.144	24	12.536
Kastamonu	17	1.087	29,5	312	73	103	3.574	23	16.004	33	11.154
Kayseri	30	3.974	30,7	1.685	544	377	3.436	27	47.976	53	24.441
Kırklareli	8	751	22,1	202	65	96	3.547	14	24.326	29	11.743
Kırşehir	6	498	22,3	382	52	74	3.020	12	18.625	23	9.717
Kocaeli	25	4.053	24,2	2.463	550	465	3.605	27	62.082	56	29.932
Konya	42	6.692	32,2	2.626	796	580	3.585	59	35.241	75	27.723
Kütahya	13	1.732	30,3	568	153	177	3.232	21	27.241	45	12.712
Malatya	21	2.327	30,5	1.511	400	213	3.580	27	28.242	49	15.562
Manisa	30	3.881	28,5	1.909	367	400	3.399	45	30.210	62	21.927

Source: General Directorate of Health Services, Public Health Institution of Turkey, General Directorate of Emergency Health Services

Table 6.18. Some Health Indicators by Provinces, Turkey, 2013- Continued

City	Hospital	Bed	Number of Hospital Beds per 10,000	Qualified Beds	Intensive Care Unit Beds	Number of Family Medicine Unit	Population per Family Medicine Unit	Number of 112 Emergency Care Station	Population per 112 Emergency Care Station	Number of 112 Emergency Care Ambulance	Population per 112 Emergency Care Ambulance
Kahramanmaraş	19	2.181	20,3	1.036	286	307	3.504	30	35.857	53	20.296
Mardin	12	968	12,4	481	98	198	3.938	18	43.319	27	28.879
Muğla	24	1.940	22,4	872	209	246	3.523	44	19.697	64	13.542
Muş	7	756	18,3	307	54	112	3.684	9	45.839	24	17.190
Neveşehir	6	580	20,3	407	58	86	3.319	12	23.788	19	15.024
Niğde	7	681	19,8	450	74	102	3.369	19	18.087	28	12.274
Ordu	17	1.905	26,0	536	222	193	3.790	30	24.382	42	17.416
Rize	9	1.018	31,0	773	80	95	3.455	16	20.513	34	9.653
Sakarya	19	1.690	18,4	1.067	176	254	3.612	23	39.886	35	26.211
Samsun	29	4.074	32,3	1.866	526	361	3.495	34	37.112	56	22.532
Siirt	11	602	19,2	250	58	85	3.696	15	20.944	31	10.134
Sinop	7	510	24,9	129	32	58	3.527	15	13.638	24	8.524
Sivas	21	2.445	39,2	814	216	177	3.524	29	21.511	58	10.756
Tekirdağ	21	1.873	21,4	1.107	238	241	3.629	17	51.440	30	29.149
Tokat	15	1.907	31,9	1.080	190	175	3.421	18	33.262	29	20.645
Trabzon	21	3.326	43,9	1.939	340	233	3.254	22	34.465	46	16.483
Tunceli	5	187	21,9	162	18	25	3.417	12	7.119	24	3.560
Şanlıurfa	20	2.698	15,0	982	467	496	3.633	37	48.702	55	32.763
Uşak	8	978	28,2	575	124	108	3.208	11	31.501	28	12.375
Van	16	2.442	22,8	1.494	427	279	3.836	32	33.441	59	18.138
Yozgat	17	1.018	22,9	243	64	134	3.315	19	23.380	24	18.509
Zonguldak	11	2.056	34,2	375	184	173	3.477	18	33.420	24	25.065
Aksaray	10	701	18,3	190	72	110	3.480	14	27.343	25	15.312
Bayburt	1	150	19,8	123	8	26	2.908	7	10.803	16	4.726
Karaman	5	601	25,3	179	81	76	3.131	11	21.631	21	11.330
Kırıkkale	6	813	29,6	393	89	85	3.231	13	21.128	18	15.259
Batman	11	1.050	19,2	547	181	153	3.579	15	36.505	23	23.808
Şırnak	9	684	14,4	510	67	129	3.684	11	43.205	28	16.973
Bartın	3	422	22,3	121	38	60	3.152	9	21.015	13	14.549
Ardahan	4	250	24,3	191	16	31	3.316	8	12.848	17	6.046
İğdir	4	296	15,5	94	27	54	3.526	7	27.203	20	9.521
Yalova	6	382	17,4	206	78	55	4.002	8	27.515	13	16.932
Karabük	6	668	29,0	147	103	68	3.386	12	19.188	21	10.964
Kilis	1	194	15,1	74	21	36	3.572	6	21.431	17	7.564
Osmaniye	8	944	18,9	451	134	145	3.441	13	38.383	23	21.695
Düzce	5	675	19,2	184	88	97	3.624	11	31.955	22	15.978
Turkey	1.517	202.031	26,4	92.542	25.964	21175	3.621	2.072	37.002	3.357	22.838

Source: General Directorate of Health Services, Public Health Institution of Turkey, General Directorate of Emergency Health Services

Explanations for Chapter 6

☑The data regarding the Ministry of National Defence for 2012 were updated. Therefore, some indicators may be different from the data published in the Health Statistics Yearbook 2012.

☑The data about the institutions which served in the year (including those closed) were used in the tables, graphics where the infrastructure and services of the hospitals are provided.

☑Regarding the MRI and CT devices, some retrospective updates were done for the retrospective numbers of MRI and CT devices by making a distinction between the fixture devices and service procurement devices in the hospitals.

☑The data of the Ministry of National Defense (MoND) has been used as only the number of hospitals and beds before 2012, and has been included in the “Other” sector in the tables and graphs. The data regarding the indicators except for the number of hospitals and beds were included in the Private Sector as they were included in all the indicators for the year 2012 and later and in order for them to be comparable.

☑Tables and charts in which the number of hospitals are indicated: “Other” is defined as the hospitals other than MoH, University and Private sector which are hospitals owned by Ministry of Defence (MoND), municipalities and other public institutions.

☑Tables and charts in which the number of hospital beds are indicated, “Other” is defined as the hospital beds other than MoH, University and Private sector which are beds in hospitals owned by MoND, municipalities and other public institutions.

☑The data belonging to the SSI hospitals for 2002 have been included in the Ministry of Health in order to be comparable.

☑Hospital beds: beds that are used for care and treatment of patients for more than 24 hours, and located in the patient rooms or units that provide continuous medical care for patients. Beds in intensive care units, in premature and newborn units (Incubator, infant bed), in burn centers and burn unit rooms and qualified beds were included in total number of hospital beds.

☑Qualified beds: with a bathroom, a toilet, and a maximum of 2 patient beds, television, telephone, refrigerator, dining table, shelf and a folding companion seat. These figures are included in the total number of beds.

☑The numbers of Health Center for Women and Family which serve within the municipalities were added to the number of KETEM.

☑The tables and graphs which show Family Health Centers and the number of Family Health Centers examination rooms: the data for the years 2002 include health centers, the data for the years 2009 include health centers and family health centers, and the data for 2010-2013 includes family health centers and it’s examination rooms.

☑112 Emergency care ambulance; a land vehicle with an ambulance crew, technical and medical equipment that are able to provide emergency medical intervention in any emergency situation for the sick and injured at the emergency scene and in the ambulance. “Other Ambulances”: ambulances of the health centers, hospitals and provincial health directorates. The private sector ambulances are not included in the total.



Chapter 7

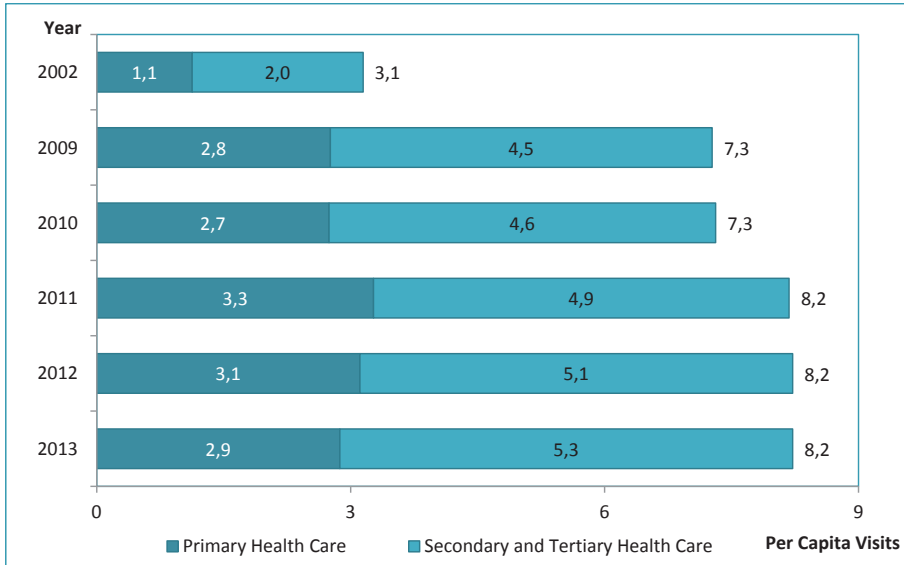
Utilization of Health Care Services

Table 7.1. Total Number of Visits to a Physician in Health Care Facilities by Years, All Sectors, Turkey

	2002	2009	2010	2011	2012	2013
Health Center	69.103.517	123.851.458	84.629.163	-	-	-
Family Medicine	-	65.716.898	108.976.049	240.298.753	221.672.029	212.318.024
Tuberculosis Control Dispensary	2.012.458	2.557.787	2.378.998	2.219.534	2.143.765	1.815.805
Mother and Child Health and Family Planning Center	2.980.481	5.707.593	3.831.859	944.842	630.583	536.707
Other Examinations Made by CHCs	-	-	-	-	10.035.342	4.999.980
Private Outpatient Clinics	731.132	2.387.515	2.497.352	882.973	655.432	582.265
Primary Care Facilities Total	74.827.588	200.221.251	202.313.421	244.346.102	235.137.151	220.252.781
Private Clinics and Specialty Branch Centers	9.824.802	32.082.953	33.788.328	29.040.707	32.012.211	31.256.100
Hospitals	124.313.659	295.262.190	302.984.218	337.849.536	354.636.935	378.812.243
Secondary and Tertiary Health Care Total	134.138.461	327.345.143	336.772.546	366.890.243	386.649.146	410.068.343
Total	208.966.049	527.566.394	539.085.967	611.236.345	621.786.297	630.321.124

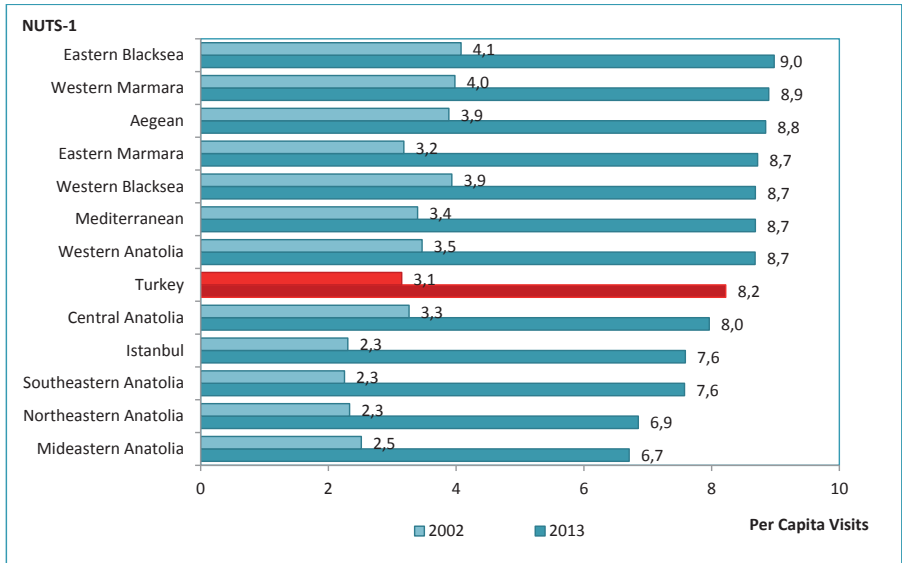
Source: Public Health Institution of Turkey, General Directorate of Health Services

Figure 7.1. Total Number of Per Capita Visits to a Physician in Health Agencies and Institutions by Years, All Sectors, Turkey



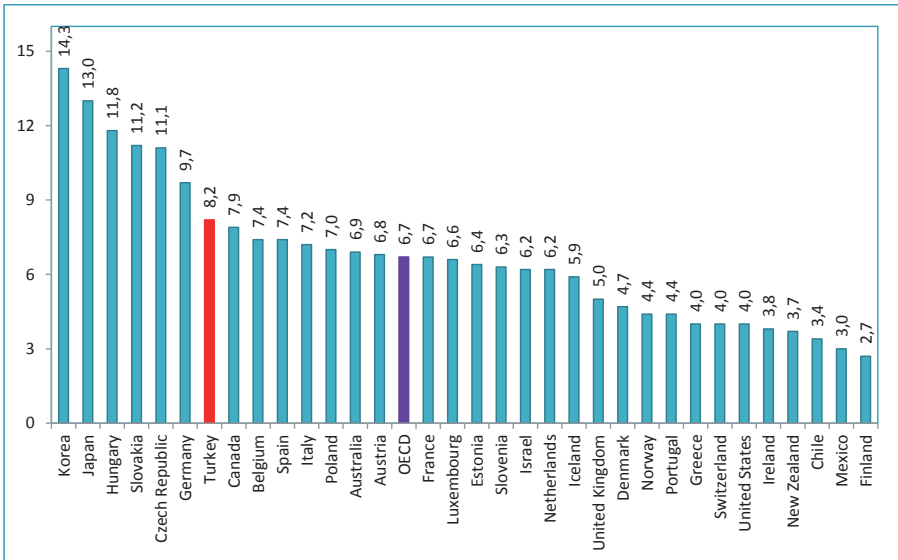
Source: Public Health Institution of Turkey, General Directorate of Health Services

Figure 7.2. Per Capita Visits to a Physician in Health Care Facilities by NUTS-1, All Sectors, 2002, 2013



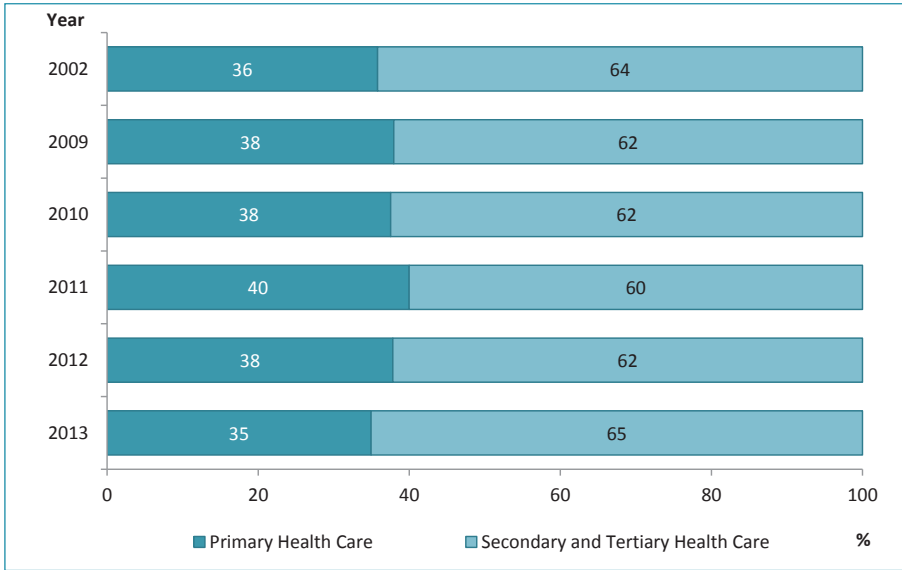
Source: Public Health Institution of Turkey, General Directorate of Health Services

Figure 7.3. International Comparison of Per Capita Visits to a Physician, 2012



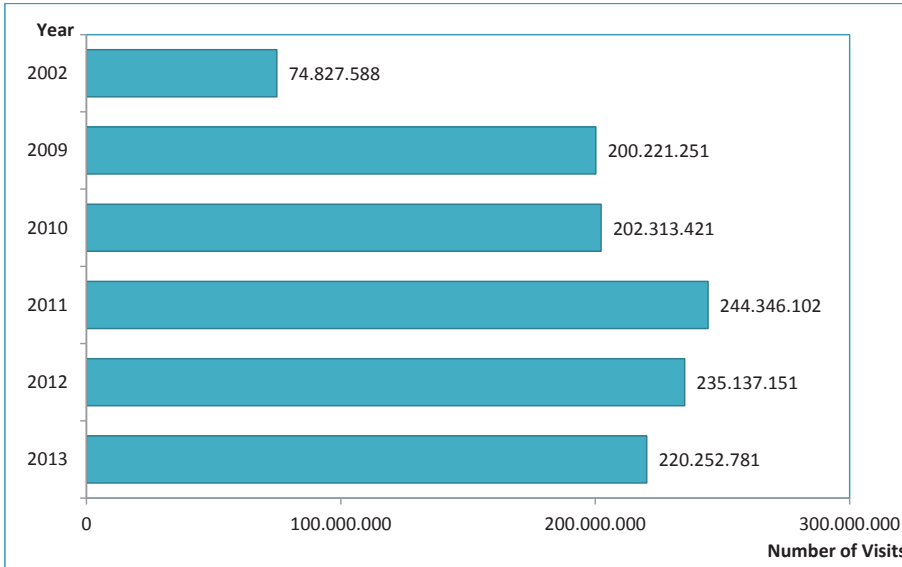
Source: OECD Health Data 2014

Figure 7.4. Ratio of Total Number of Visits to a Physician in Health Agencies and Institutions by Years, (%), All Sectors, Turkey



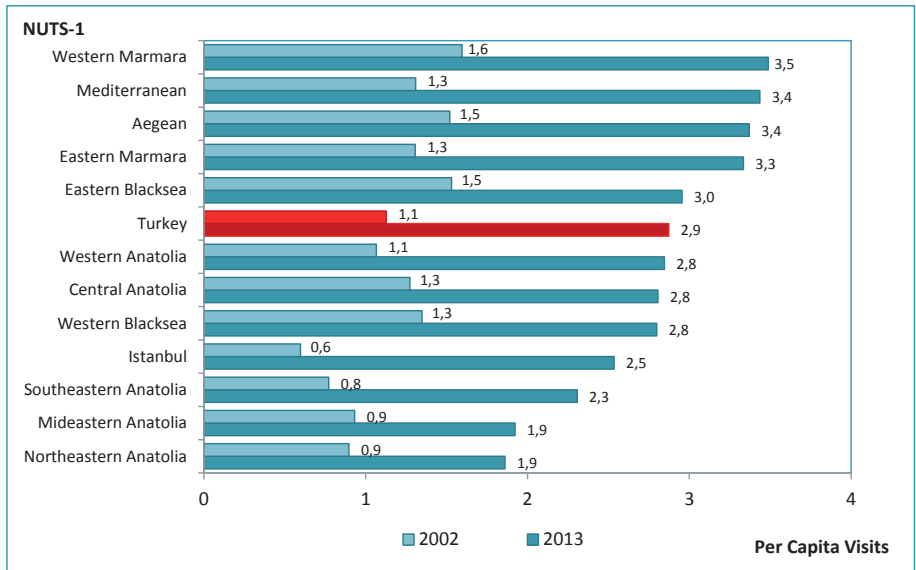
Source: Public Health Institution of Turkey, General Directorate of Health Services

Figure 7.5. Number of Visits to a Physician at Primary Health Care Facilities by Years, All Sectors, Turkey



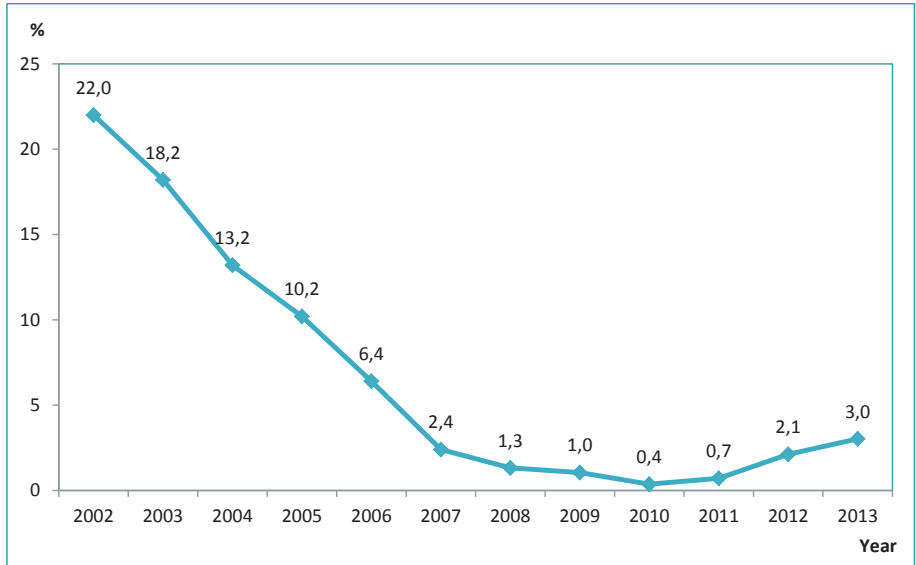
Source: Public Health Institution of Turkey, General Directorate of Health Services

Figure 7.6. Per Capita Visits to a Physician at Primary Health Care Facilities by NUTS-1, All Sectors, 2002, 2013



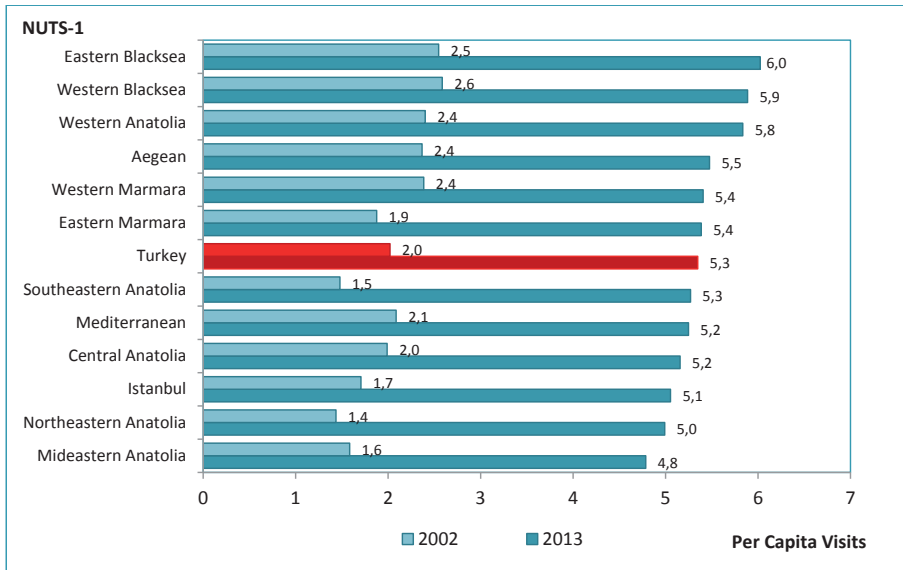
Source: Public Health Institution of Turkey, General Directorate of Health Services

Figure 7.7. Referrals from the Primary Health Care Facilities by Years, (%), Ministry of Health



Source: Public Health Institution of Turkey

Figure 7.8. Per Capita Visits to a Physician at Secondary and Tertiary Health Care Facilities by NUTS-1, All Sectors, 2002, 2013



Source: General Directorate of Health Services

Table 7.2. Number of Hospital Visits by Years and Sectors, Turkey

	2002	2009	2010	2011	2012	2013
Ministry of Health	109.793.128	228.279.139	235.172.924	254.342.943	260.974.401	277.485.135
University	8.823.361	19.364.865	20.098.754	24.437.107	27.080.436	29.985.697
Private	5.697.170	47.618.186	47.712.540	59.069.486	66.582.098	71.341.411
Total	124.313.659	295.262.190	302.984.218	337.849.536	354.636.935	378.812.243

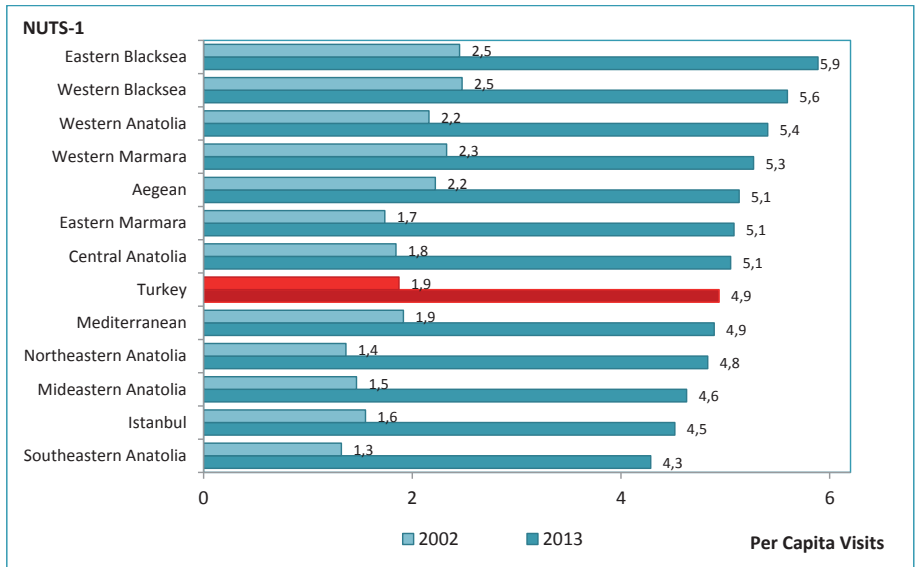
Source: General Directorate of Health Services

Table 7.3. Per Capita Hospital Visits by Years and Sectors, Turkey

	2002	2009	2010	2011	2012	2013
Ministry of Health	1,7	3,1	3,2	3,4	3,5	3,6
University	0,1	0,3	0,3	0,3	0,4	0,4
Private	0,1	0,7	0,6	0,8	0,9	0,9
Total	1,9	4,1	4,1	4,5	4,7	4,9

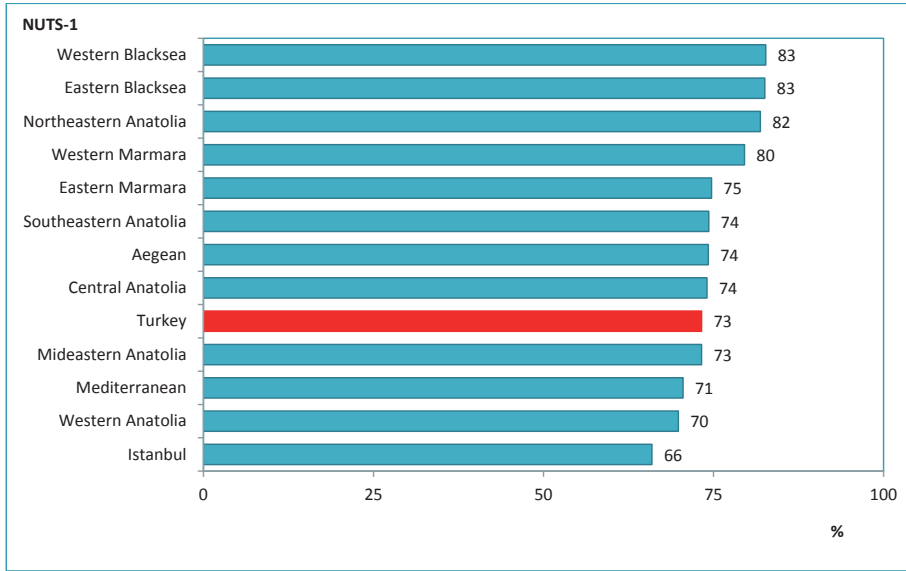
Source: General Directorate of Health Services

Figure 7.9. Per Capita Visits to Hospitals by NUTS-1, All Sectors, 2002, 2013



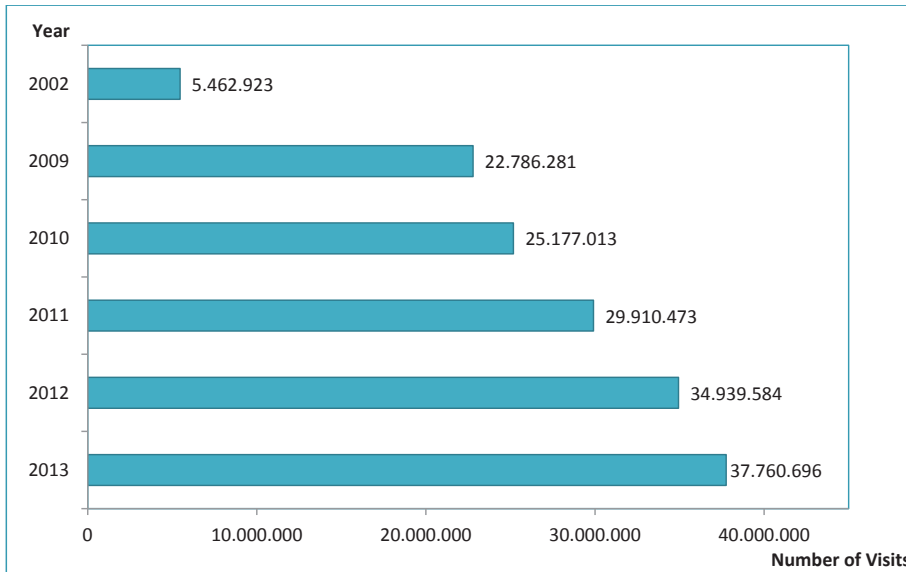
Source: General Directorate of Health Services

Figure 7.10. Proportion of Visits to MoH Hospitals to All Sectors by NUTS-1, (%), 2013



Source: General Directorate of Health Services

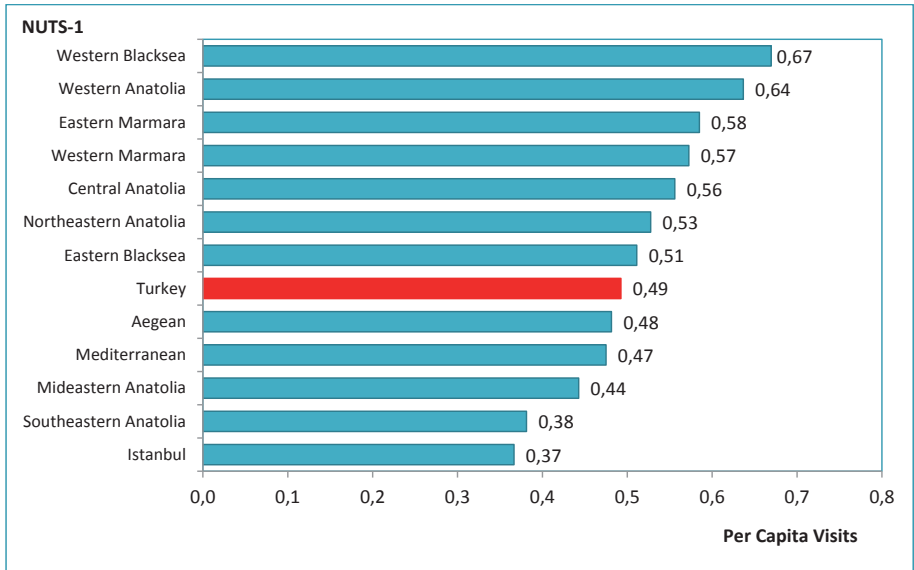
Figure 7.11. Number of Visits to Oral and Dental Care Services by Years, All Sectors, Turkey



Source: Turkish Institution of Public Hospitals, General Directorate of Health Services

* Only the values of the Ministry of Health were published before 2012. In 2012 and 2013, the values of the Universities and Public Sector were also included.

Figure 7.12. Per Capita Visits to a Dentist by NUTS-1, Turkey, 2013



Source: Turkish Institution of Public Hospitals, General Directorate of Health Services

Table 7.4. Number of Inpatients by Years and Sectors, Turkey

	2002	2009	2010	2011	2012	2013
Ministry of Health	4.169.779	5.934.978	6.361.116	6.775.154	6.891.857	7.023.313
University	781.990	1.462.690	1.509.484	1.607.462	1.601.878	1.630.464
Private	556.494	2.503.992	2.657.573	3.054.165	3.485.092	3.719.780
Total	5.508.263	9.901.660	10.528.173	11.436.781	11.978.827	12.373.557

Source: General Directorate of Health Services

Table 7.5. Number of Inpatients in the MoH Hospitals and Its Proportion to All Sectors by NUTS-1, (%), 2013

NUTS-1	Ministry of Health	Total	Proportion of MoH (%)
Northeastern Anatolia	227.001	332.675	68
Western Blacksea	504.157	751.917	67
Western Marmara	321.325	485.614	66
Eastern Blacksea	312.514	488.030	64
Southeastern Anatolia	786.553	1.256.435	63
Eastern Marmara	697.197	1.152.209	61
Aegean	1.002.585	1.683.397	60
Mideastern Anatolia	376.835	633.003	60
Turkey	7.023.313	12.373.557	57
Mediterranean	892.302	1.638.620	54
Central Anatolia	385.149	708.637	54
Western Anatolia	676.554	1.278.144	53
Istanbul	841.141	1.964.876	43

Source: General Directorate of Health Services

Table 7.6. Number of Surgical Operations by Years and Sectors, Turkey

	2002	2009	2010	2011	2012	2013
Ministry of Health	1.072.417	1.829.919	2.039.021	2.209.326	2.298.893	2.414.538
University	307.108	546.903	576.547	617.477	664.695	715.889
Private	218.837	1.131.431	1.215.159	1.373.774	1.446.630	1.553.810
Total	1.598.362	3.508.253	3.830.727	4.200.577	4.410.218	4.684.237

Source: General Directorate of Health Services

Table 7.7. Number of Surgical Operations by Surgical Operation Groups and Sectors, 2013

	A	B	C	Total
Ministry of Health	181.675	848.484	1.384.379	2.414.538
University	110.599	282.182	323.108	715.889
Private	165.295	553.346	835.169	1.553.810
Total	457.569	1.684.012	2.542.656	4.684.237

Source: General Directorate of Health Services

Table 7.8. Distribution of Surgical Operations by Surgical Operation Groups by Sectors, (%), 2013

	A	B	C	Total
Ministry of Health	40	50	54	52
University	24	17	13	15
Private	36	33	33	33
Total	100	100	100	100

Source: General Directorate of Health Services

Table 7.9. Number of Surgical Operations per 1.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Western Anatolia	39,7	17,9	19,6	77,3
Mediterranean	34,3	9,9	22,0	66,2
Central Anatolia	28,6	12,1	24,5	65,2
Eastern Marmara	33,6	8,8	20,2	62,5
Aegean	31,5	11,0	18,7	61,2
Turkey	31,5	9,3	20,3	61,1
Istanbul	25,6	4,9	29,1	59,6
Eastern Blacksea	34,4	8,5	15,9	58,7
Western Blacksea	34,8	7,0	14,7	56,5
Northeastern Anatolia	39,7	13,7	2,6	56,0
Mideastern Anatolia	25,7	12,5	15,4	53,6
Southeastern Anatolia	29,5	4,8	18,6	52,9
Western Marmara	27,9	8,7	11,5	48,1

Source: General Directorate of Health Services

Table 7.10. Number of Surgical Operations per 1.000 Population by Groups and NUTS-1, 2013

NUTS-1	A	B	C	Total
Western Anatolia	9,6	29,5	38,1	77,3
Mediterranean	5,8	23,1	37,3	66,2
Central Anatolia	4,8	26,5	33,9	65,2
Eastern Marmara	6,6	22,7	33,2	62,5
Aegean	6,7	23,3	31,2	61,2
Turkey	6,0	22,0	33,2	61,1
Istanbul	7,2	22,0	30,3	59,6
Eastern Blacksea	5,7	20,0	33,0	58,7
Western Blacksea	5,1	20,1	31,2	56,5
Northeastern Anatolia	3,5	15,9	36,6	56,0
Mideastern Anatolia	3,3	16,8	33,5	53,6
Southeastern Anatolia	3,1	16,9	32,9	52,9
Western Marmara	3,7	16,9	27,4	48,1

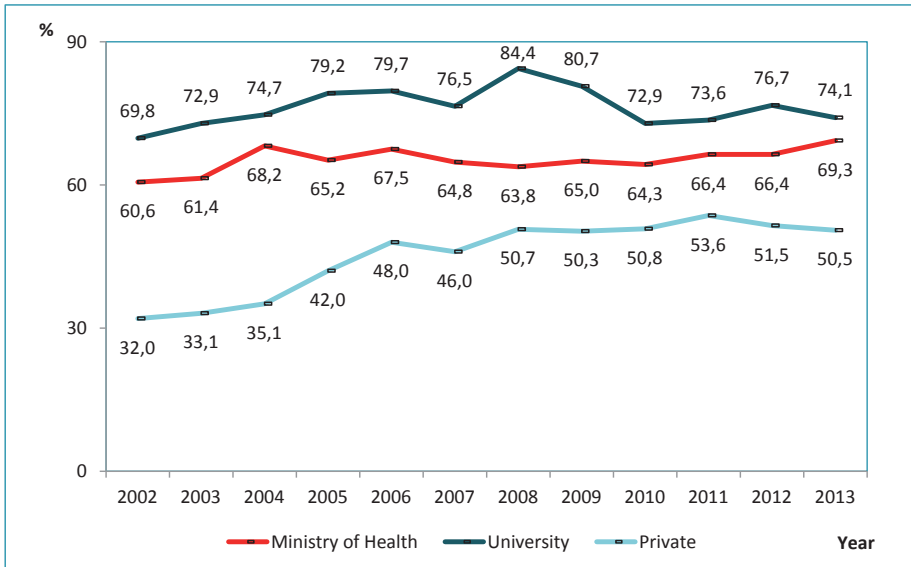
Source: General Directorate of Health Services

Table 7.11. Proportion of Surgical Operations to the Number of Visits by NUTS-1 and Sectors, (%), 2013

NUTS-1	Ministry of Health	University	Private	Total
Western Anatolia	1,1	2,3	2,3	1,4
Mediterranean	1,0	2,5	2,1	1,4
Istanbul	0,9	1,7	2,3	1,3
Central Anatolia	0,8	3,3	2,6	1,3
Turkey	0,9	2,4	2,2	1,2
Southeastern Anatolia	0,9	2,7	2,0	1,2
Eastern Marmara	0,9	2,3	2,2	1,2
Aegean	0,8	2,1	2,3	1,2
Northeastern Anatolia	1,0	2,9	0,6	1,2
Mideastern Anatolia	0,8	3,4	1,8	1,2
Western Blacksea	0,8	2,3	2,2	1,0
Eastern Blacksea	0,7	3,6	2,0	1,0
Western Marmara	0,7	2,7	1,5	0,9

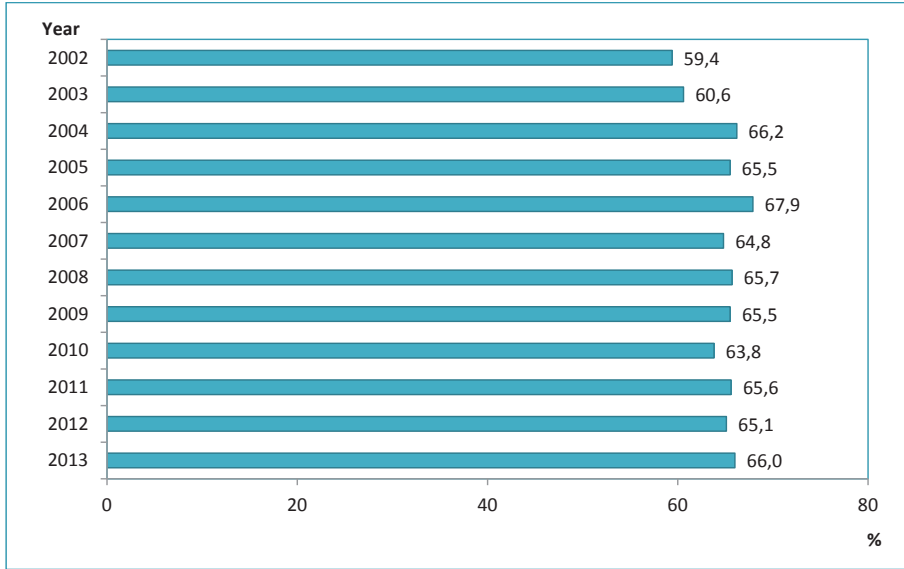
Source: General Directorate of Health Services

Figure 7.13. Bed Occupancy Rate by Years and Sectors, (%), Turkey



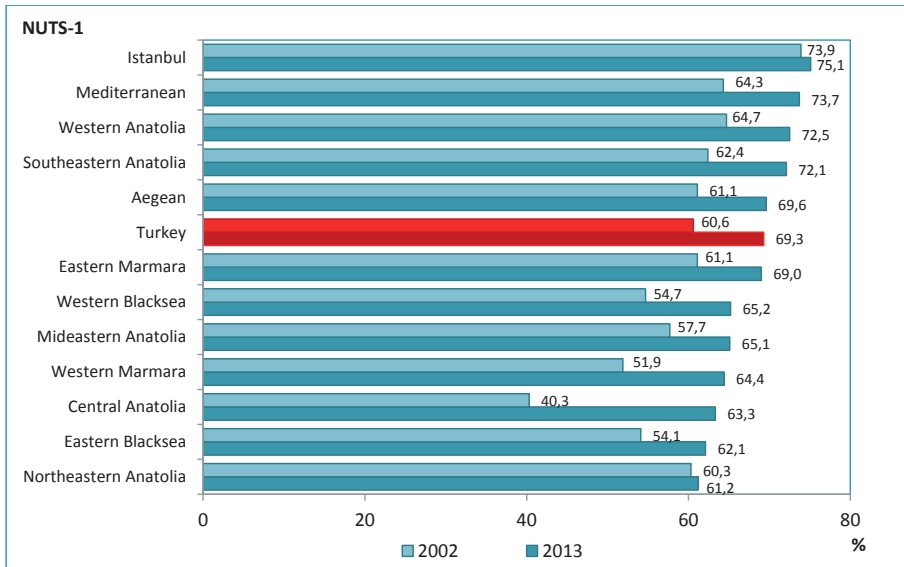
Source: General Directorate of Health Services

Figure 7.14. Bed Occupancy Rate in Hospitals by Years, All Sectors, (%), Turkey



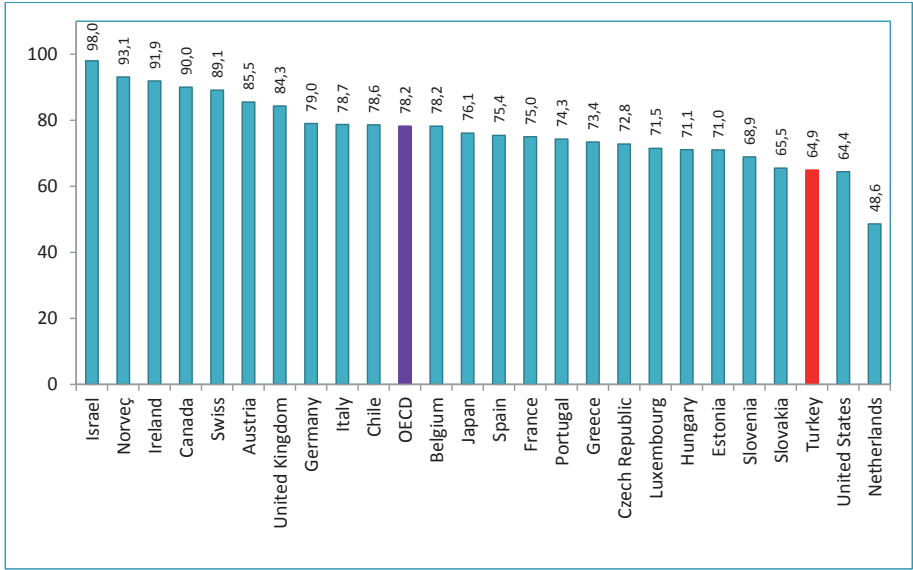
Source: General Directorate of Health Services

Figure 7.15. Bed Occupancy Rate in Hospitals by NUTS-1, Ministry of Health, (%), 2002, 2013



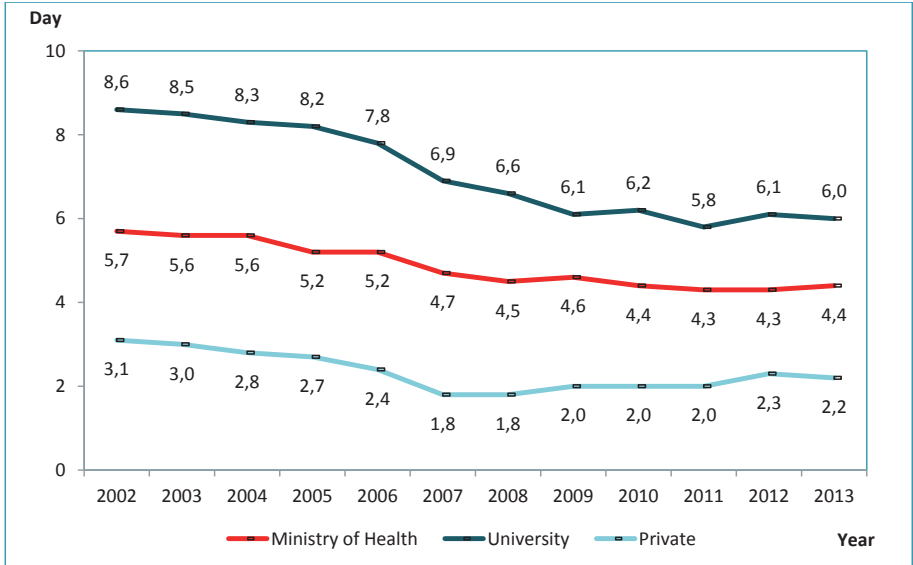
Source: General Directorate of Health Services

Figure 7.16. International Comparison of Acute Bed Occupancy Rate in Hospitals, 2011



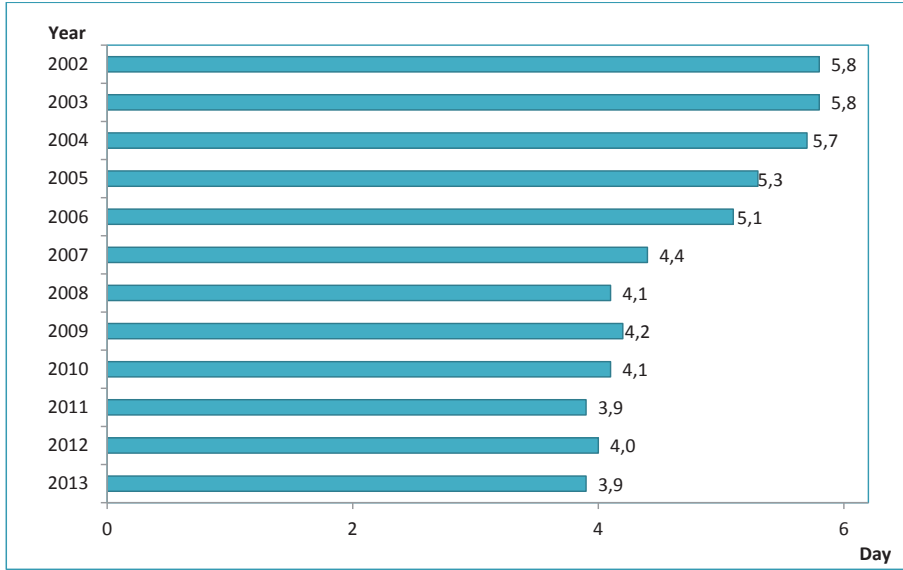
Source: OECD Health at a Glance, 2013

Figure 7.17. Average Length of Stay in Hospitals by Years and Sectors, (Days), Turkey



Source: General Directorate of Health Services

Figure 7.18. Average Length of Stay in Hospitals by Years, All Sectors, (Days), Turkey



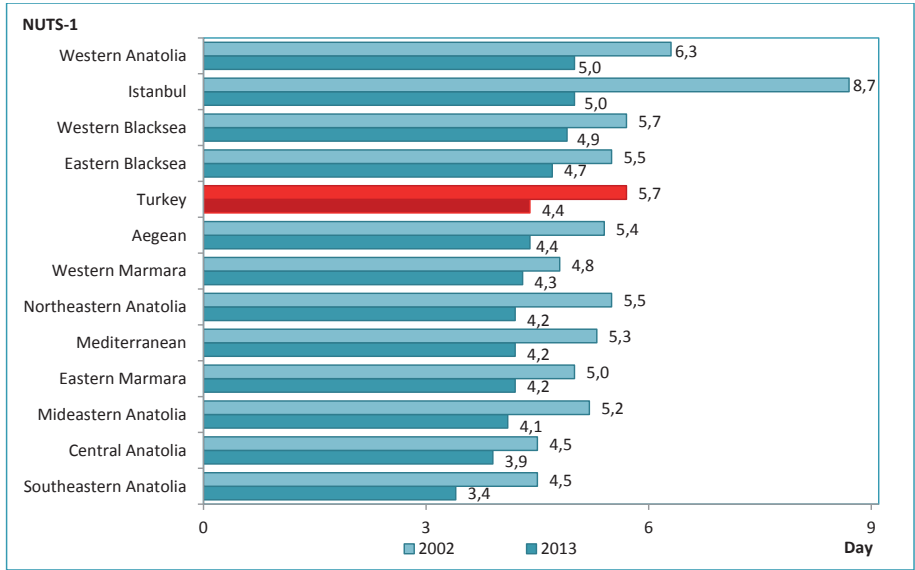
Source: General Directorate of Health Services

Table 7.12. Average Length of Stay in Hospitals by Main ICD-10 Diagnosis Groups, All Sectors, Turkey, 2011, 2012, 2013

ICD-10 Diagnosis Groups	Code	2011	2012	2013
Certain Infectious and Parasitic Diseases	A00-B99	3,8	3,7	3,5
Neoplasms	C00-D48	4,8	4,8	4,9
Diseases of the Blood and Bloodforming Organs and Certain Disorders Involving the Immune Mechanism	D50-D89	3,2	3,5	3,1
Endocrine, Nutritional and Metabolic Diseases	E00-E90	5,3	5,2	5,3
Mental and Behavioural Disorders	F00-F99	18,3	15,3	18,4
Diseases of the Nervous System	G00-G99	5,6	5,7	5,4
Diseases of the Eye and Adnexa	H00-H59	1,8	1,5	1,3
Diseases of the Ear and Mastoid Process	H60-H95	2,6	3,3	3,1
Diseases of the Circulatory System	I00-I99	5,2	5,3	5,1
Diseases of the Respiratory System	J00-J99	5,3	5,4	5,5
Diseases of the Digestive System	K00-K93	3,2	3,0	2,7
Diseases of the Skin and Subcutaneous Tissue	L00-L99	2,6	2,3	2,2
Diseases of the Musculoskeletal System and Connective Tissue	M00-M99	6,6	6,6	6,6
Diseases of the Genitourinary System	N00-N99	2,8	2,9	2,7
Pregnancy, Childbirth and the Puerperium	O00-O99	1,9	2,0	2,0
Certain Conditions Originating in the Perinatal Period	P00-P96	4,9	4,8	5,0
Congenital Malformations, Deformations and Chromosomal Abnormalities	Q00-Q99	4,5	4,4	4,5
Symptoms, Signs and Abnormal Clinical and Laboratory Findings, Not Elsewhere Classified	R00-R99	2,6	2,6	2,9
Injury, Poisoning and Certain other Consequences of External Causes	S00-T98	3,7	4,1	4,6
Factors Influencing Health Status and Contact With Health Services	Z00-Z99	2,5	3,0	3,2
Total		3,9	4,0	3,9

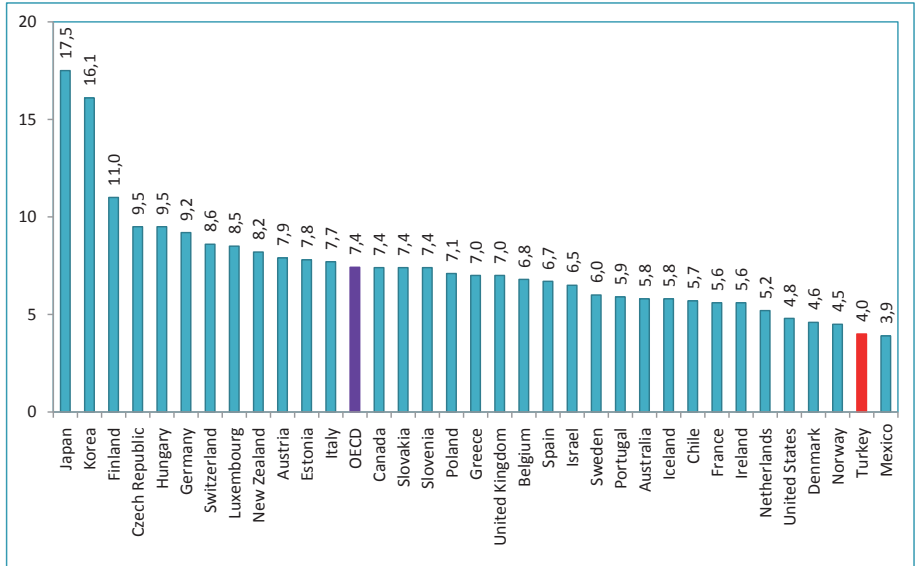
Source: General Directorate of Health Services Diagnosis-Related Groups Database

Figure 7.19. Average Length of Stay in Hospitals by NUTS1, MoH, (Days), 2002, 2013



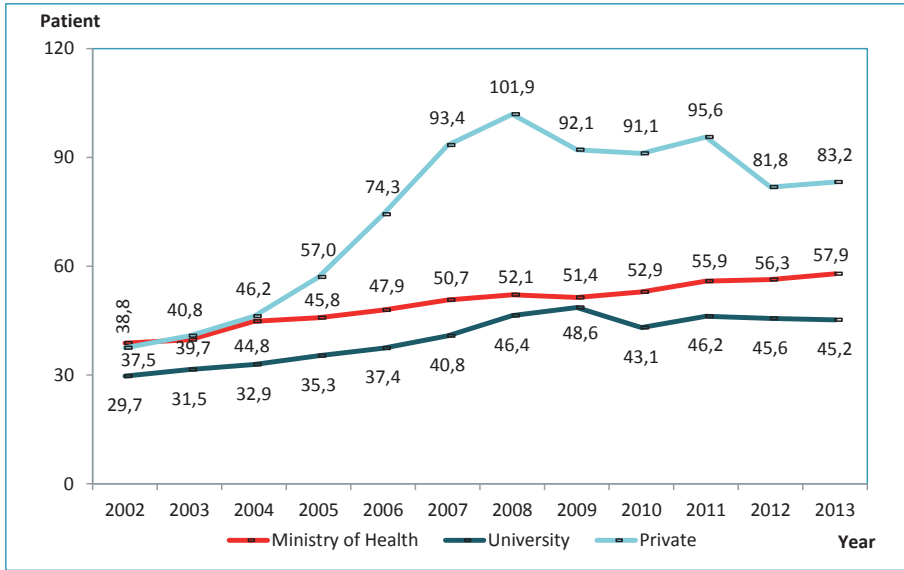
Source: General Directorate of Health Services

Figure 7. 20. International Comparison of Average Length of Stay in Hospitals, (Days), 2012



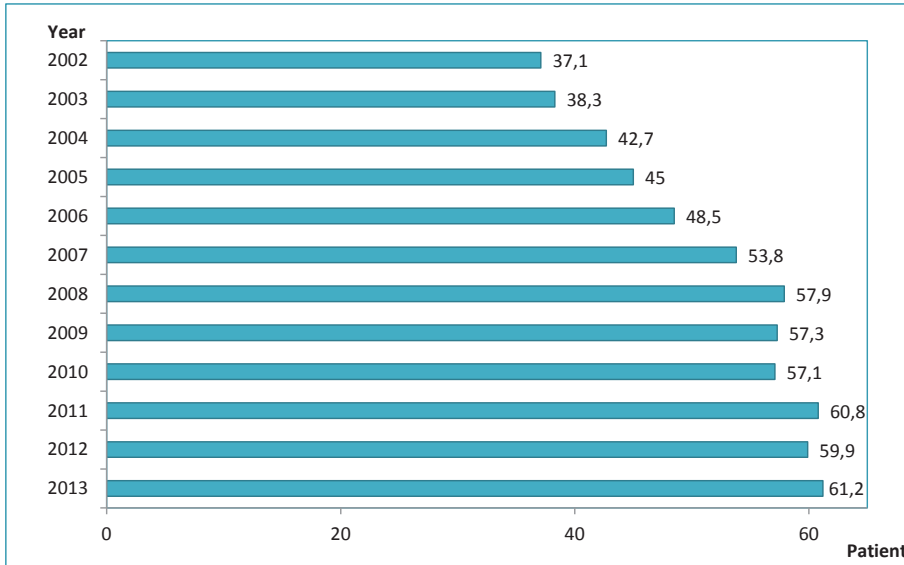
Source: OECD Health Data 2014

Figure 7.21. Bed Turnover Rate in Hospitals by Years and Sectors, (Patient), Turkey



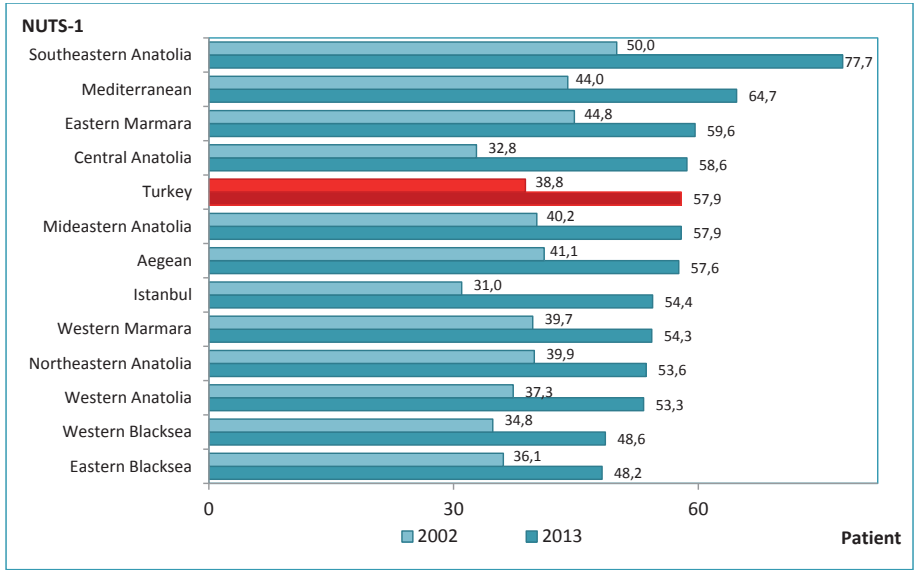
Source: General Directorate of Health Services

Figure 7.22. Bed Turnover Rate in Hospitals by Years (Patient), All Sectors, Turkey



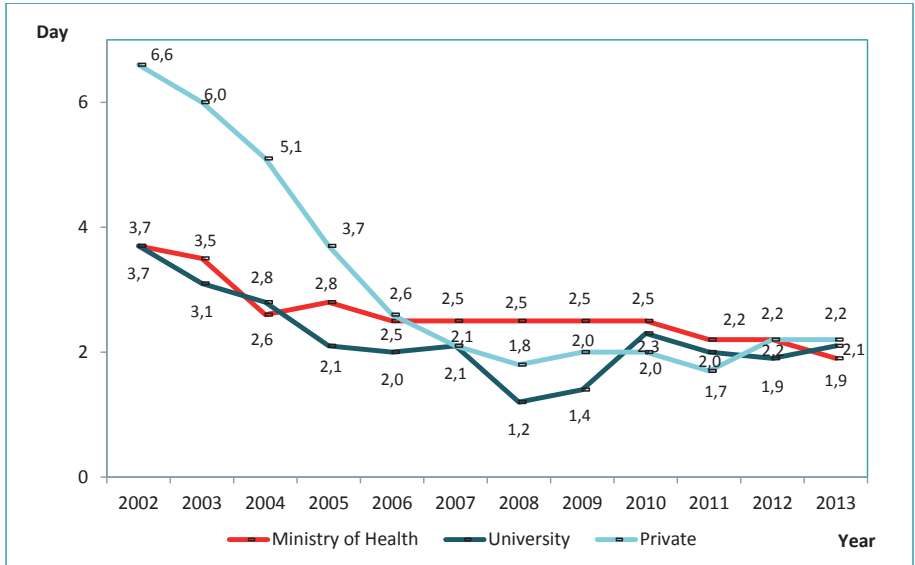
Source: General Directorate of Health Services

Figure 7.23. Bed Turnover Rate in Hospitals by NUTS-1, (Patient), MoH, 2002, 2013



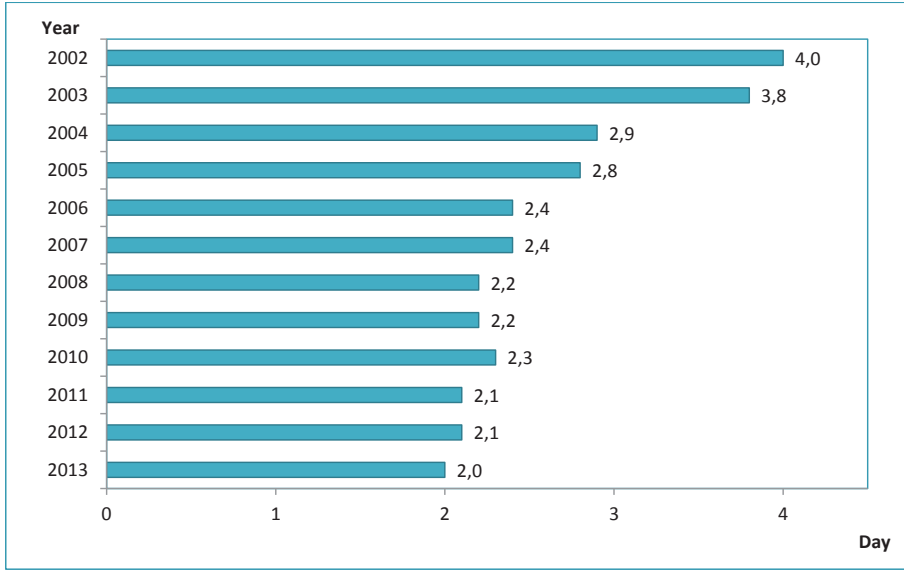
Source: General Directorate of Health Services

Figure 7.24. Bed Turnover Interval in Hospitals by Years and Sectors, (Days), Turkey



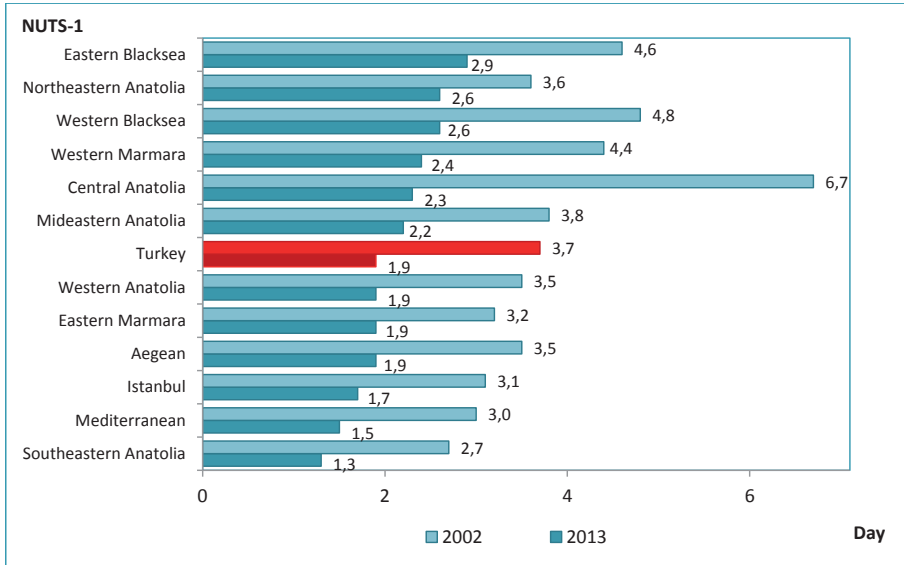
Source: General Directorate of Health Services

Figure 7.25. Bed Turnover Interval in Hospitals by Years, (Days), All Sectors, Turkey



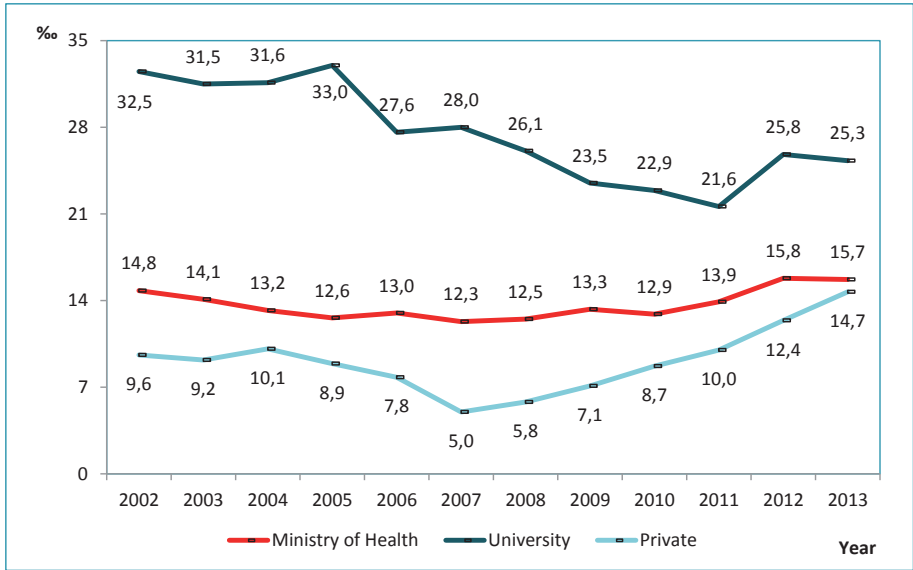
Source: General Directorate of Health Services

Figure 7.26. Bed Turnover Interval in Hospitals by NUTS-1, (Days), MoH, 2002, 2013



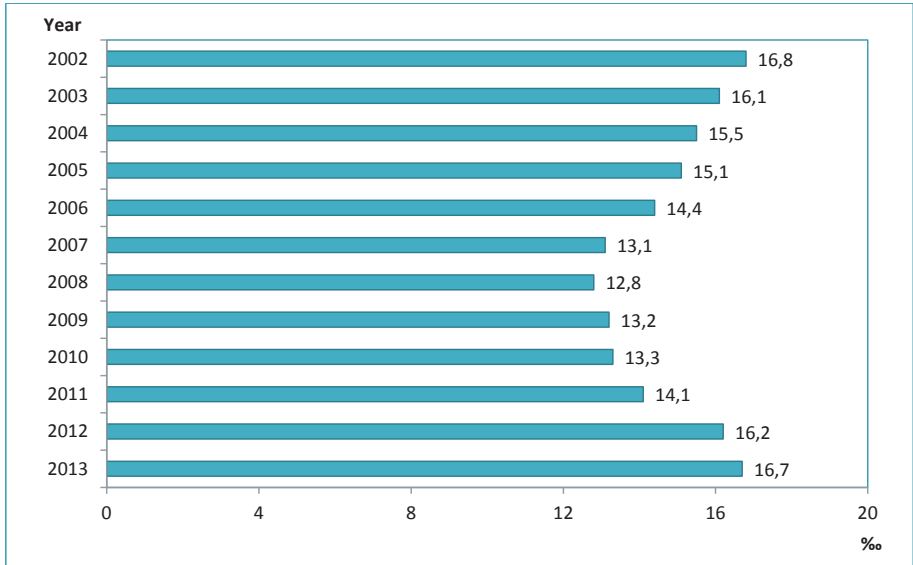
Source: General Directorate of Health Services

Figure 7.27. Crude Death Rate in Hospitals by Years and Sectors, (%), Turkey



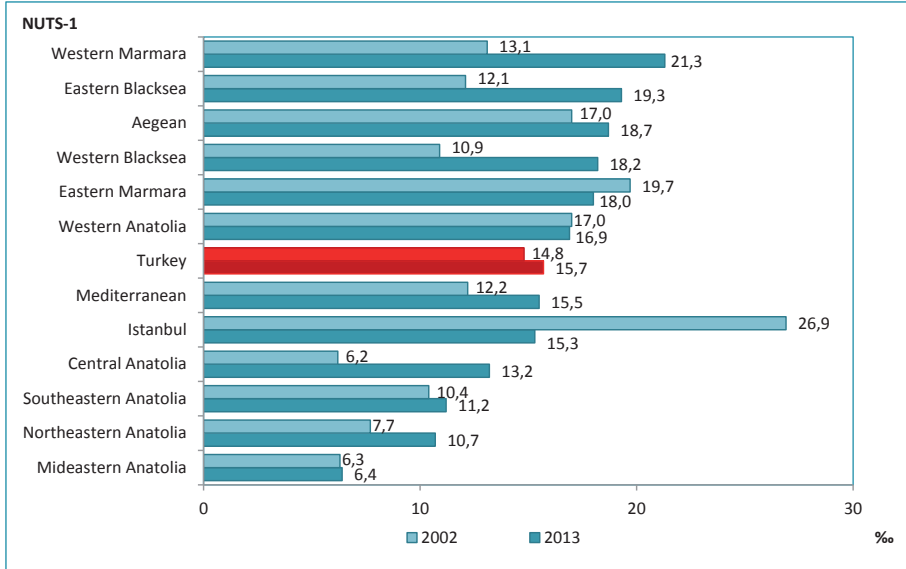
Source: General Directorate of Health Services

Figure 7.28. Crude Death Rate in Hospitals by Years, All Sectors, (%), Turkey



Source: General Directorate of Health Services

Figure 7.29. Crude Death Rate in Hospitals by NUTS-1, MoH, (%), 2002, 2013



Source: General Directorate of Health Services

Table 7.13. Number of Days Stayed in Hospitals by Years and Sectors, Turkey

	2002	2009	2010	2011	2012	2013
Ministry of Health	23.770.910	27.408.539	28.193.909	29.405.370	29.662.436	30.679.607
University	6.713.945	8.873.997	9.317.978	9.350.038	9.846.341	9.753.138
Private	1.730.661	4.986.717	5.410.529	6.246.243	8.001.322	8.247.245
Total	32.215.516	41.269.253	42.922.416	45.001.651	47.510.099	48.679.990

Source: General Directorate of Health Services

Table 7.14. Number of Days Stayed in the Hospitals by NUTS-1, MoH, 2013

NUTS-1	2013
Northeastern Anatolia	945.831
Western Marmara	1.391.459
Eastern Blacksea	1.470.353
Central Anatolia	1.518.784
Mideastern Anatolia	1.547.336
Western Blacksea	2.472.117
Southeastern Anatolia	2.664.714
Eastern Marmara	2.944.988
Western Anatolia	3.355.814
Mediterranean	3.710.366
Istanbul	4.240.341
Aegean	4.417.504
Turkey	30.679.607

Source: General Directorate of Health Services

Table 7.15. Number of Organ Transplantations by Years, Turkey

	2002	2009	2010	2011	2012	2013
Kidney	550	2.362	2.502	2.923	2.903	2.944
Liver	159	592	695	904	1.001	1.248
Heart	20	54	86	93	61	63
Heart Valve	15	38	18	1	5	1
Lung	0	7	3	5	25	32
Heart-Lung	0	0	0	0	2	0
Pancreas	0	18	29	26	6	4
Small Intestine	1	1	3	1	5	2
Total	745	3.072	3.336	3.953	4.008	4.294

Source: General Directorate of Health Services

Table 7.16. Number of Imaging Devices in Inpatient Health Care Facilities by Sectors, 2013

	MRI	CT	Ultrasound	Doppler Ultrasound	ECHO	Mammog- raphy
Ministry of Health	5.213.207	7.295.808	17.438.742	5.786.423	3.566.342	1.401.746
University	1.142.721	1.662.826	1.862.445	577.570	608.719	271.470
Private	2.717.654	2.081.060	5.518.475	1.735.006	1.355.977	404.726
Total	9.073.582	11.039.694	24.819.662	8.098.999	5.531.038	2.077.942

Source: General Directorate of Health Services

Table 7.17. Number of MRI Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Western Marmara	14,6	45,1	44,0	20,7
Central Anatolia	15,9	41,7	32,6	20,9
Eastern Marmara	18,7	31,1	30,4	21,7
Mediterranean	16,8	38,5	35,0	22,5
Southeastern Anatolia	15,4	38,9	46,9	23,1
Western Anatolia	19,3	35,8	32,2	23,7
Aegean	19,2	34,4	38,4	23,7
Turkey	18,8	38,1	38,1	24,0
Western Blacksea	18,6	37,9	59,4	24,5
Eastern Blacksea	21,2	51,3	45,8	25,7
Istanbul	24,0	31,6	32,2	26,8
Mideastern Anatolia	18,0	53,2	51,2	27,0
Northeastern Anatolia	17,6	71,4	79,9	28,0

Source: General Directorate of Health Services

Table 7.18. Number of CT Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Western Marmara	16,6	53,1	28,0	20,5
Central Anatolia	19,4	84,2	21,3	24,5
Eastern Marmara	24,1	52,3	22,6	26,0
Western Anatolia	23,3	41,5	29,3	26,9
Eastern Blacksea	24,6	71,6	36,3	28,1
Aegean	24,9	56,6	25,7	28,2
Western Blacksea	24,7	53,3	43,7	28,5
Mediterranean	24,2	64,5	29,6	28,6
Mideastern Anatolia	23,2	65,5	36,8	29,1
Turkey	26,3	55,5	29,2	29,1
Southeastern Anatolia	27,1	71,7	41,4	32,0
Northeastern Anatolia	28,2	61,8	52,2	33,5
Istanbul	39,5	45,4	23,6	35,5

Source: General Directorate of Health Services

Table 7.19. Number of Ultrasound Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Western Marmara	44,4	65,6	49,9	46,5
Eastern Blacksea	44,5	57,0	104,7	53,1
Eastern Marmara	54,0	47,4	64,2	55,3
Istanbul	59,2	40,1	55,2	56,9
Western Blacksea	54,1	44,3	95,9	58,5
Aegean	60,1	67,3	79,2	63,8
Turkey	62,8	62,1	77,4	65,5
Mediterranean	68,8	74,5	75,9	70,8
Mideastern Anatolia	64,1	103,8	88,6	71,8
Northeastern Anatolia	72,5	50,4	91,6	71,9
Central Anatolia	59,1	66,6	130,2	72,9
Western Anatolia	78,2	57,8	73,8	74,6
Southeastern Anatolia	81,7	99,9	106,0	87,7

Source: General Directorate of Health Services

Table 7.20. Number of Doppler Ultrasound Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Central Anatolia	8,5	26,0	14,5	10,9
Northeastern Anatolia	10,0	19,5	29,9	12,6
Western Marmara	10,4	20,8	35,0	14,6
Eastern Blacksea	17,9	9,3	15,1	17,2
Western Anatolia	19,8	19,3	14,8	19,0
Western Blacksea	15,8	18,2	44,5	19,4
Aegean	16,6	20,4	33,8	19,7
Turkey	20,9	19,3	24,3	21,4
Mediterranean	24,2	22,2	17,0	22,5
Istanbul	28,0	8,8	14,6	23,1
Southeastern Anatolia	23,3	20,5	35,7	25,9
Eastern Marmara	28,9	22,1	24,5	27,6
Mideastern Anatolia	24,8	27,7	56,3	31,0

Source: General Directorate of Health Services

Table 7.21. Number of ECHO Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Western Marmara	11,6	18,3	14,1	12,3
Eastern Marmara	11,4	17,5	16,4	12,7
Istanbul	11,5	10,1	17,9	13,1
Central Anatolia	11,5	35,7	17,8	14,4
Eastern Blacksea	12,4	28,8	23,1	14,5
Turkey	12,9	20,3	19,0	14,6
Aegean	13,3	16,2	20,3	14,7
Northeastern Anatolia	15,9	10,2	8,6	14,7
Mediterranean	12,9	21,7	19,1	14,9
Western Blacksea	12,6	26,2	29,1	15,3
Southeastern Anatolia	13,1	35,0	19,9	15,5
Mideastern Anatolia	16,1	27,4	14,6	16,7
Western Anatolia	14,9	22,3	22,4	17,2

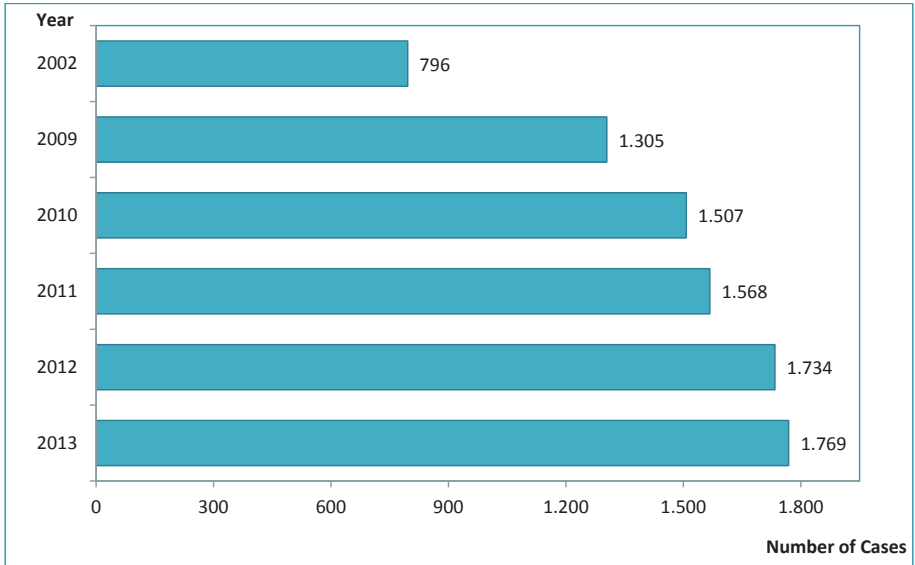
Source: General Directorate of Health Services

Table 7.22. Number of Mammography Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2013

NUTS-1	Ministry of Health	University	Private	Total
Southeastern Anatolia	1,5	3,1	3,8	2,0
Mideastern Anatolia	2,2	7,2	3,9	2,9
Northeastern Anatolia	2,9	6,7	3,1	3,3
Western Blacksea	4,0	5,9	7,5	4,5
Eastern Blacksea	3,7	19,0	5,7	4,6
Central Anatolia	4,7	9,4	5,4	5,2
Western Marmara	5,1	9,2	4,7	5,3
Turkey	5,1	9,1	5,7	5,5
Mediterranean	5,9	6,2	4,8	5,7
Eastern Marmara	5,6	9,6	6,0	6,0
Istanbul	6,6	6,0	6,7	6,6
Aegean	6,3	9,7	6,2	6,6
Western Anatolia	6,2	14,3	6,3	7,4

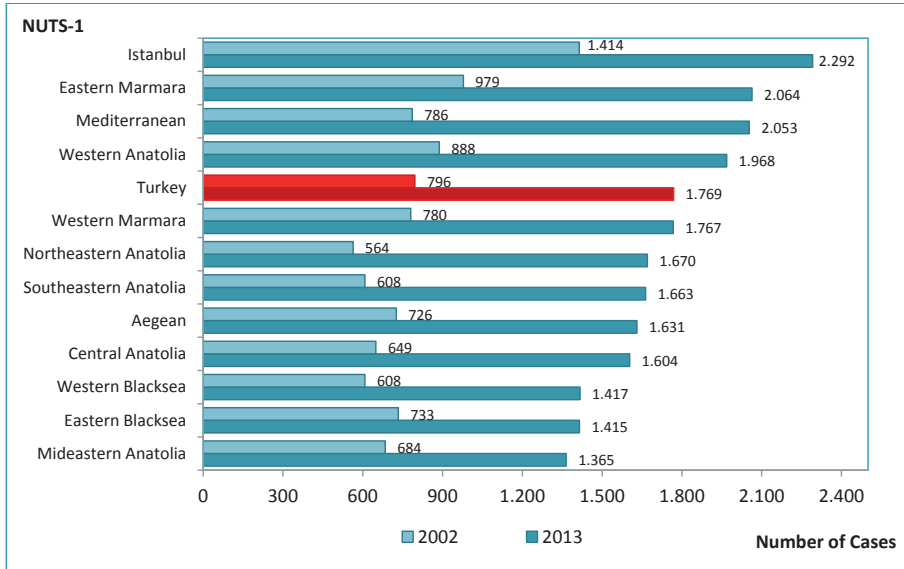
Source: General Directorate of Health Services

Figure 7.30. Number of Cases per 112 Emergency Care Station by Years, Turkey



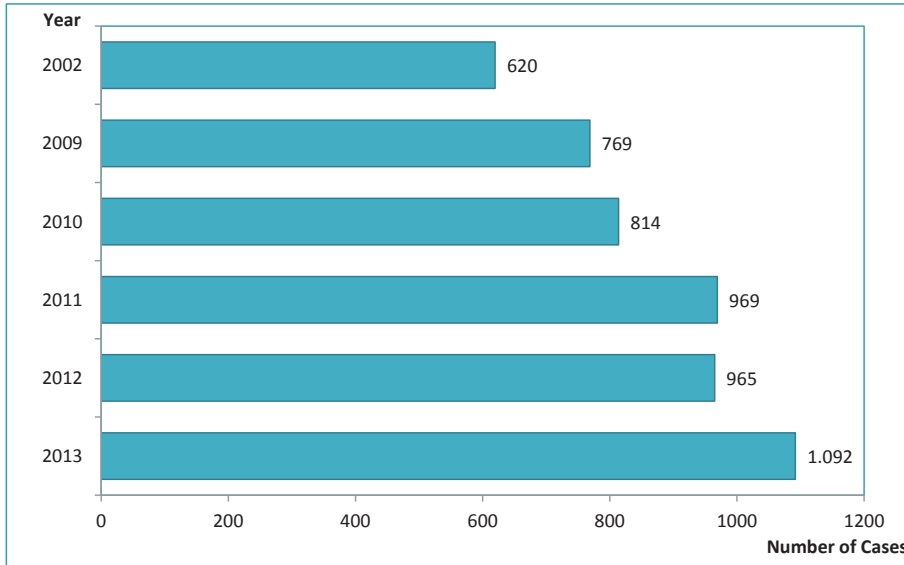
Source: General Directorate of Emergency Health Services

Figure 7.31. Number of Cases per 112 Emergency Care Station by NUTS-1, 2002, 2013



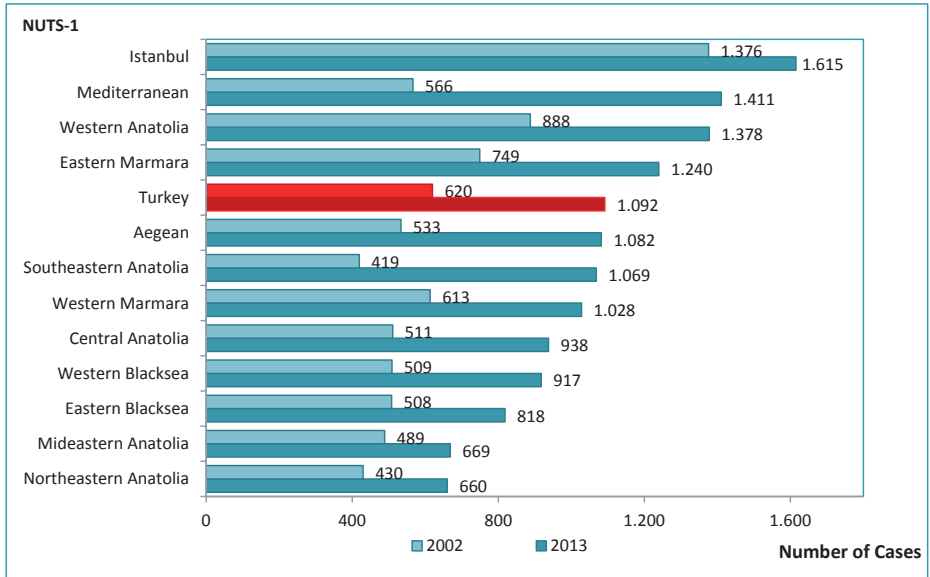
Source: General Directorate of Emergency Health Services

Figure 7.32. Total Number of Cases per 112 Emergency Care Ambulance by Years, Turkey



Source: General Directorate of Emergency Health Services

Figure 7.33. Total Number of Cases per 112 Emergency Care Ambulance by NUTS-1, 2002, 2013



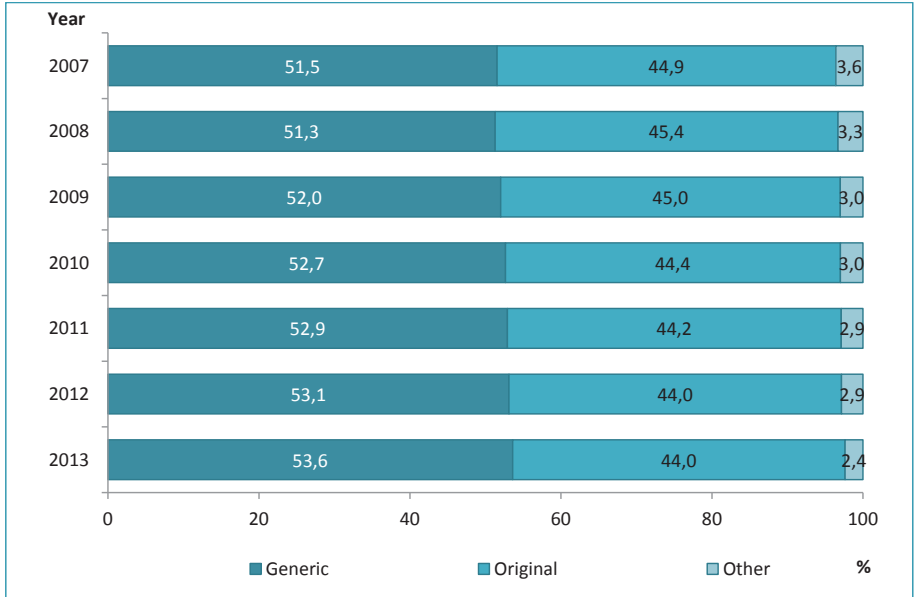
Source: General Directorate of Emergency Health Services

Table 7.23. Consumption of Drugs by Years, (Million Boxes), Turkey

	2007	2008	2009	2010	2011	2012	2013
Alimentary T.& Metabolism	220,9	233,3	229,6	243,1	268,7	278,8	280,6
Systemic Anti-Infectives	255,2	259,4	262,9	266,0	280,8	278,4	275,1
Respiratory System	198,1	209,1	237,4	231,3	268,7	257,8	263,8
Nervous System	191,8	204,9	208,4	211,0	234,5	242,6	258,5
Musculo-Skeletal System	191,4	203,0	201,2	207,1	222,8	233,4	216,8
Cardiovascular System	125,3	137,5	144,1	155,8	168,9	177,5	185,2
Dermatologicals	75,2	83,1	80,7	87,0	97,6	101,6	96,5
Blood & B.Forming Organs	57,3	64,8	63,3	66,4	72,6	77,8	77,1
Hospital Solutions	37,3	32,7	41,7	46,4	59,2	61,9	72,1
G.U.System & Sex Hormones	49,3	53,0	51,8	56,2	63,4	64,4	64,1
Sensory Organs	37,4	42,3	42,8	46,5	48,9	50,6	55,2
Systemic Hormones	27,0	28,3	28,6	30,3	36,5	37,5	37,5
Diagnostic Agents	3,6	5,7	6,7	9,1	11,1	11,7	13,2
Antineoplastic & Immunomodul	4,7	5,2	5,5	6,3	6,9	7,6	8,2
Parasitology	5,8	5,6	5,4	5,0	5,0	4,7	5,1
Various (Other)	1,5	1,7	2,3	2,2	2,6	2,9	3,4
Total Pharmaceutical Consumption	1.481,9	1.569,7	1.612,5	1.669,9	1.848,3	1.889,4	1.912,2

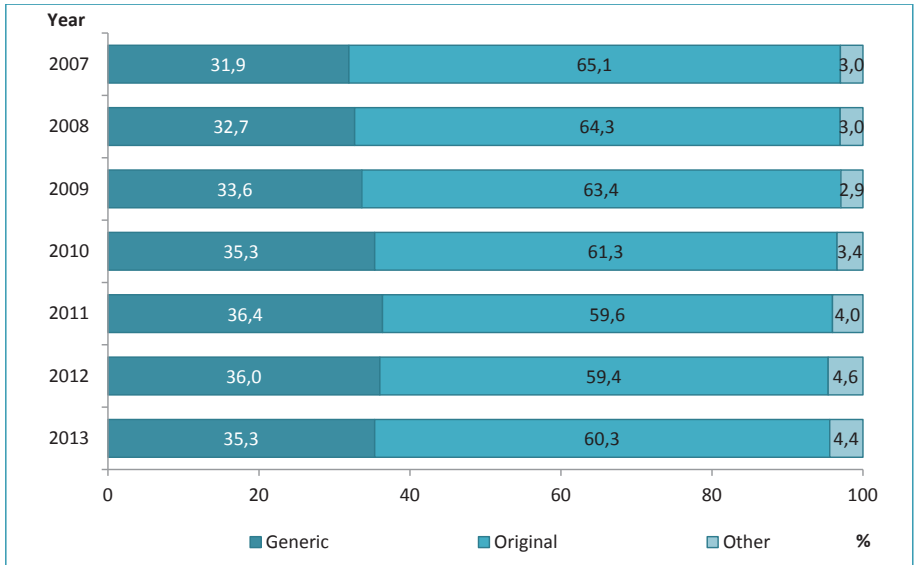
Source: Pharmaceuticals and Medical Devices Institution of Turkey

Figure 7.34. Distribution of Drug Consumptions by Years and Types of Reference, (%), Turkey



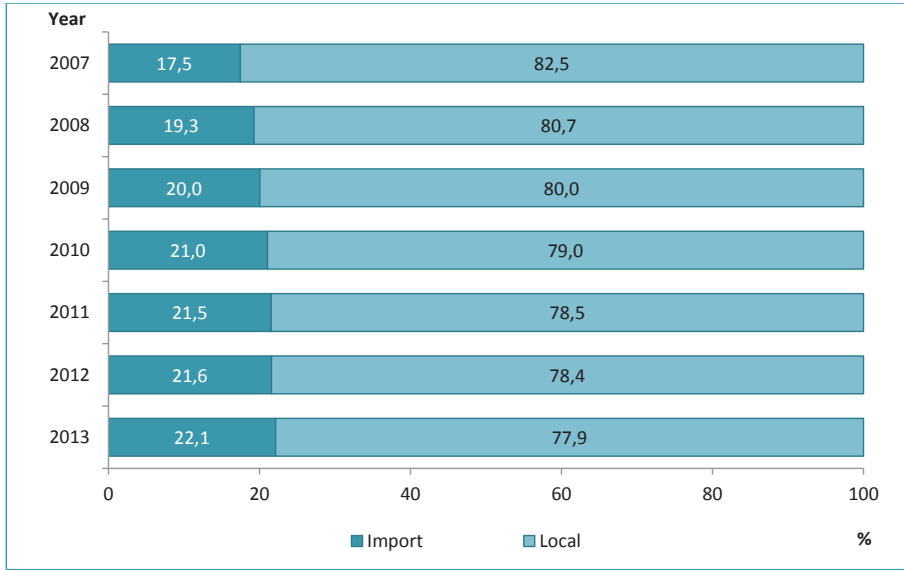
Source: Pharmaceuticals and Medical Devices Institution of Turkey

Figure 7.35. Distribution of Drug Expenditures by Years and Types of Reference, (%), Turkey



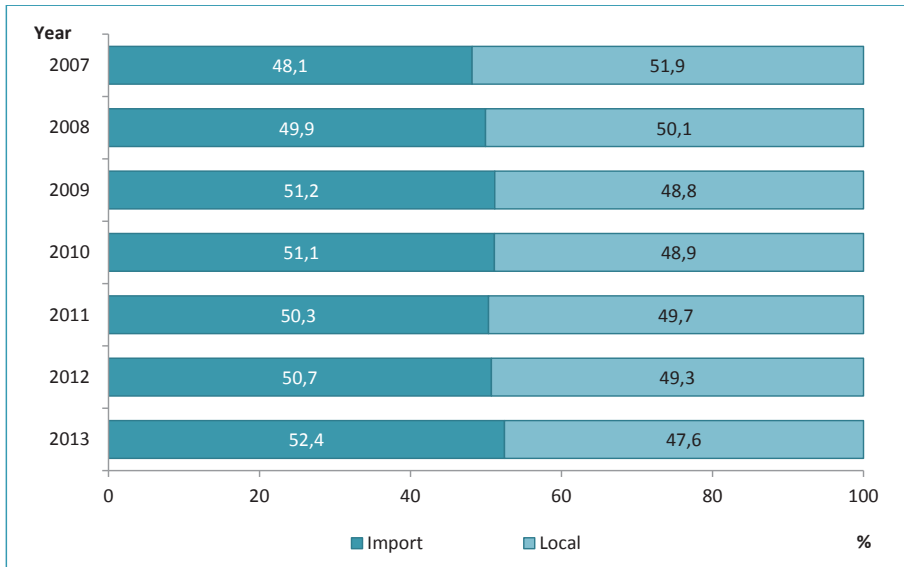
Source: Pharmaceuticals and Medical Devices Institution of Turkey

Figure 7.36. Distribution of Drug Consumptions by Years and Local/Imported Status, (%), Turkey



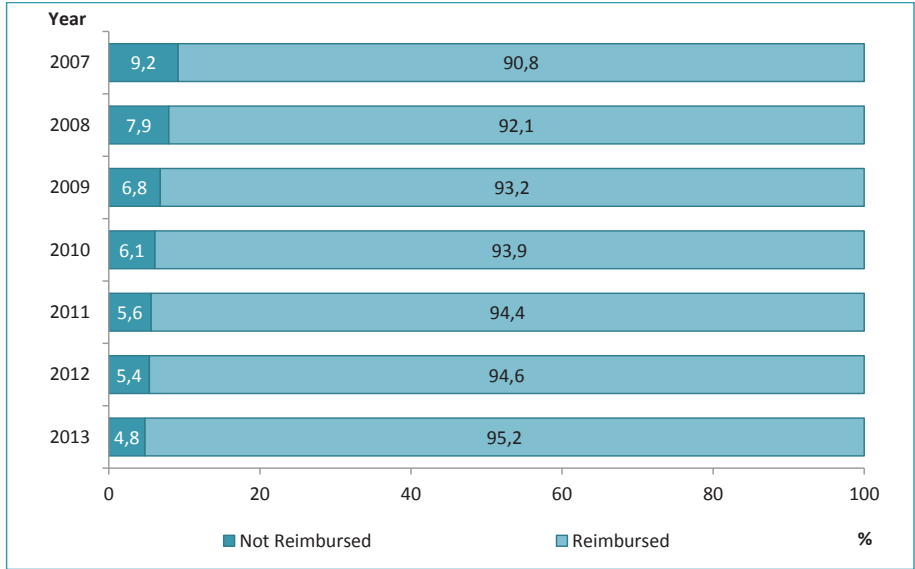
Source: Pharmaceuticals and Medical Devices Institution of Turkey

Figure 7.37. Distribution of Drug Expenditures by Years and Local/Imported Status, (%), Turkey



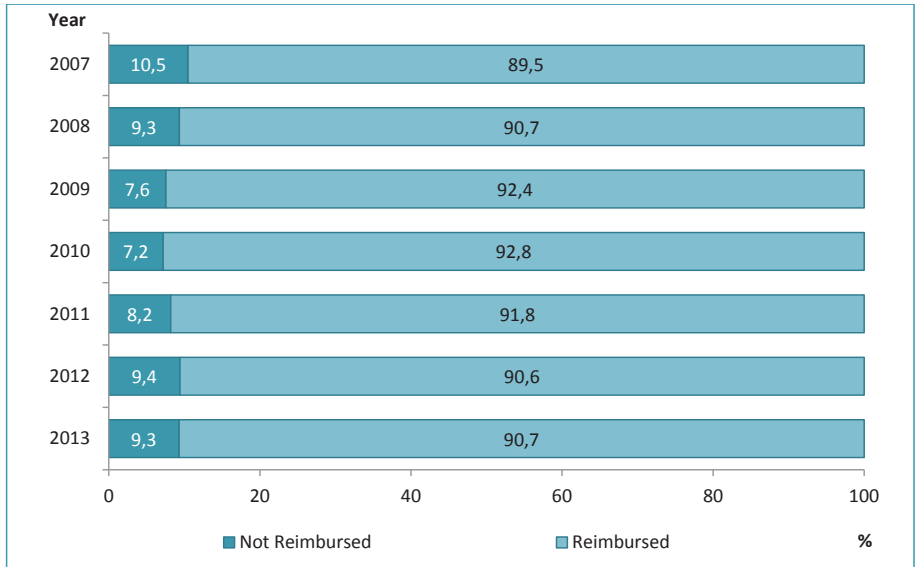
Source: Pharmaceuticals and Medical Devices Institution of Turkey

Figure 7.38. Distribution of Drug Consumptions by Years and Reimbursement Status, (%), Turkey



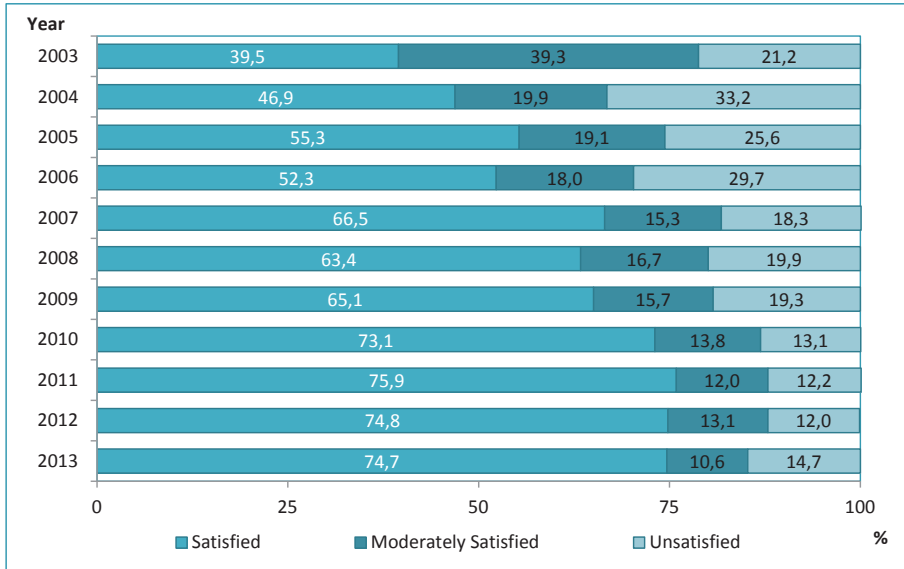
Source: Pharmaceuticals and Medical Devices Institution of Turkey

Figure 7.39. Distribution of Drug Expenditures by Years and Reimbursement Status, (%), Turkey



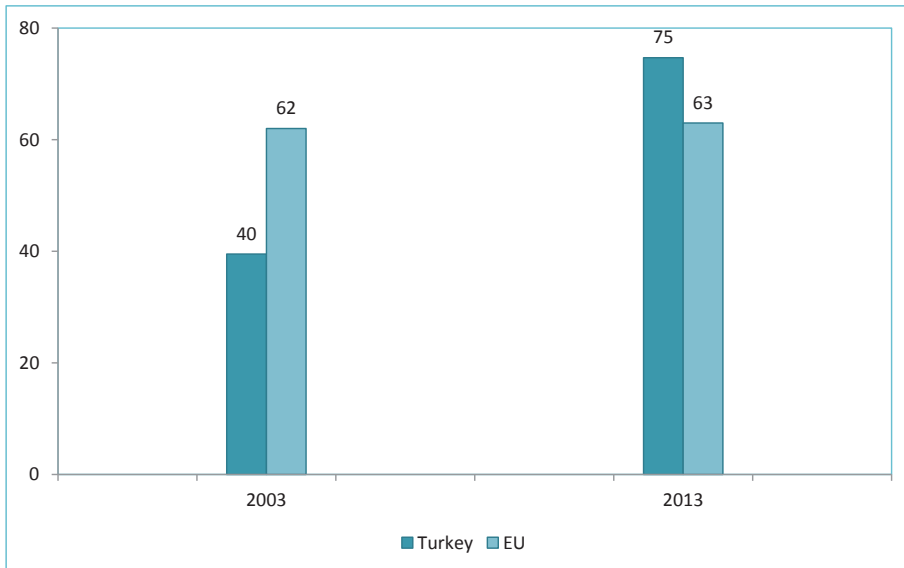
Source: Pharmaceuticals and Medical Devices Institution of Turkey

Figure 7.40. Satisfaction Ratio with Healthcare Services by Years, (%)



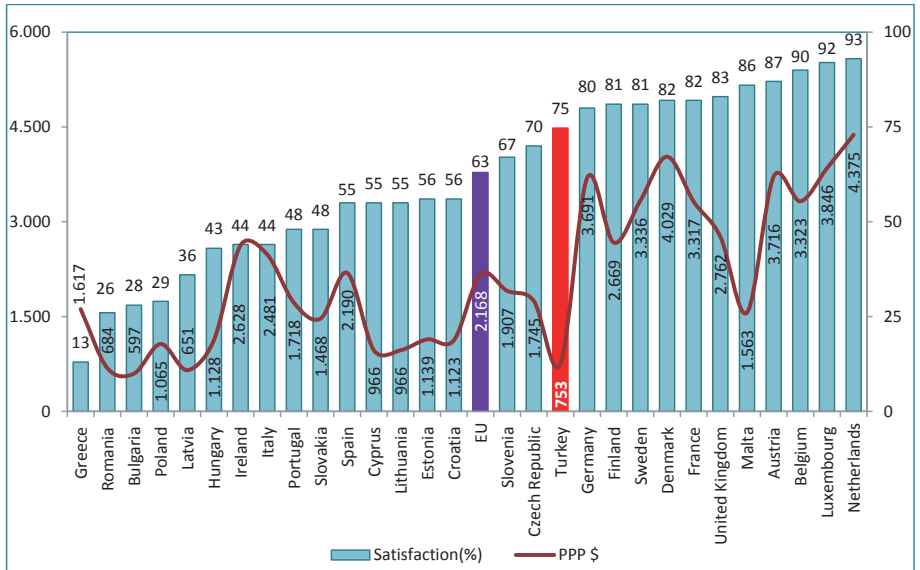
Source: TURKSTAT Life Satisfaction Survey 2013

Figure 7.41. Satisfaction with Health Care Services in EU and Turkey, (%), 2003, 2013



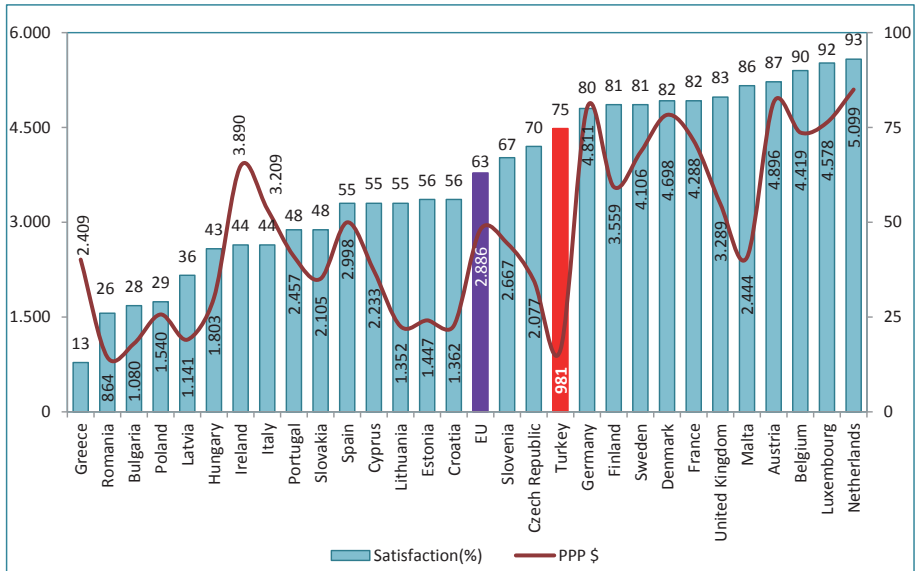
Source: Bulletin of the World Health Organization 2009; 87:271-278, European Commission Social Climate Report 2013, TURKSTAT Life Satisfaction Survey 2013

Figure 7.42. Satisfaction with Health Care Services (%) 2013 and Per Capita Public Health Expenditure, (PPP US \$), 2012



Source: OECD Health Data 2014, WHO World Health Statistics 2014, European Commission Social Climate Report 2013, TURKSTAT Life Satisfaction Survey 2013

Figure 7.43. Satisfaction with Health Care Services (%) 2013 and Per Capita Total Health Expenditure, (PPP US \$), 2012



Source: OECD Health Data 2014, WHO World Health Statistics 2014, European Commission Social Climate Report 2013, TURKSTAT Life Satisfaction Survey 2013

Table 7.24. Some Health Indicators by Provinces, Turkey, 2013

City	Primary Health Care Facilities Total Visits	Secondary and Tertiary Health Care Total Visits	Per Capita Physician Visits	Number of Dentist Visits	Per Capita Dentist Visits	Number of Inpatients	Number of Days Stayed In Hospitals	Number of Surgical Operation	Bed Occupancy Rate	Average Length of Stay in Hospital	Bed Turn-over Rate in Hospital	Bed Turn-over Interval in Hospital	Crude Death Rate in Hospital
Adana	9.014.204	11.115.623	9,4	1.322.149	0,62	386.235	1.721.424	168.977	74,7	4,5	61,1	1,5	19,7
Adıyaman	1.437.900	3.008.238	7,4	308.870	0,52	82.204	274.770	21.496	73,9	3,3	80,7	1,2	8,8
Afyonkarahisar	2.237.202	3.423.784	8,0	286.583	0,41	118.044	435.745	32.044	60,7	3,7	60,0	2,4	14,1
Ağrı	672.329	2.467.243	5,7	184.186	0,33	67.360	173.989	16.481	58,1	2,6	82,0	1,9	6,2
Amasya	1.148.938	1.873.451	9,4	218.575	0,68	37.985	154.452	10.157	51,6	4,1	46,3	3,8	19,4
Ankara	13.720.605	31.011.316	8,9	3.284.809	0,65	885.945	4.493.855	413.098	68,3	5,1	49,1	2,4	18,2
Antalya	6.669.421	12.212.497	8,7	871.864	0,40	380.620	1.266.247	144.206	68,8	3,3	75,4	1,5	16,2
Artvin	368.346	857.930	7,2	97.907	0,58	18.061	62.814	3.122	48,5	3,5	50,9	3,7	21,1
Aydın	3.156.043	5.740.297	8,7	549.830	0,54	197.692	713.359	56.321	71,6	3,6	72,5	1,4	17,5
Balıkesir	3.937.191	6.240.356	8,8	641.897	0,55	172.652	687.293	53.788	63,7	4,0	58,4	2,3	22,5
Bilecik	604.019	1.138.684	8,3	155.940	0,75	17.304	75.839	6.255	58,5	4,4	48,7	3,1	13,3
Bingöl	360.705	1.055.345	5,3	112.243	0,42	43.973	157.863	12.507	65,7	3,6	66,8	1,9	5,4
Bitlis	945.675	1.385.740	6,9	126.606	0,38	45.171	148.629	10.571	51,2	3,3	56,8	3,1	4,0
Bolu	824.967	1.901.139	9,6	231.543	0,82	72.918	348.908	20.162	67,6	4,8	51,6	2,3	13,6
Burdur	850.840	1.408.405	8,8	143.081	0,56	43.590	186.331	13.479	74,9	4,3	63,9	1,4	14,1
Bursa	10.040.810	13.497.391	8,6	1.516.258	0,55	440.628	1.708.403	171.293	71,9	3,9	67,7	1,5	20,4
Çanakkale	1.803.008	2.915.542	9,4	280.191	0,56	63.591	271.683	28.450	52,6	4,3	44,9	3,8	22,8
Çankırı	471.196	887.346	7,1	132.774	0,70	24.000	102.442	8.053	63,9	4,3	54,7	2,4	16,4
Çorum	1.388.309	2.683.828	7,7	264.512	0,50	74.074	315.755	23.092	61,6	4,3	52,8	2,7	20,1
Denizli	3.905.294	5.231.887	9,5	537.792	0,56	209.374	639.732	72.031	69,7	3,1	83,3	1,3	13,9
Diyarbakır	3.286.620	7.235.045	6,5	735.280	0,46	277.649	1.031.642	85.345	60,1	3,7	59,1	2,5	14,1
Edirne	1.498.985	2.536.302	10,1	193.779	0,49	80.768	444.166	26.377	63,1	5,5	41,9	3,2	22,0
Elazığ	1.468.956	3.332.439	8,4	316.759	0,56	142.817	714.959	43.515	67,4	5,0	49,1	2,4	14,7
Erzincan	510.457	1.307.534	8,3	115.523	0,53	35.514	134.477	9.410	57,2	3,8	55,1	2,8	14,4
Erzurum	1.544.039	4.566.349	8,0	534.900	0,70	147.405	809.429	69.751	61,8	5,5	41,1	3,4	14,1
Eskişehir	2.402.263	5.084.717	9,4	628.472	0,79	179.352	846.058	68.747	66,5	4,7	51,4	2,4	16,5
Gaziantep	6.510.944	9.783.467	8,8	735.809	0,40	346.277	1.204.019	148.388	74,1	3,5	77,8	1,2	15,5
Giresun	1.471.219	2.376.901	9,1	205.382	0,48	78.465	290.216	21.343	56,9	3,7	56,1	2,8	14,4
Gümüşhane	313.515	624.667	6,6	97.794	0,69	16.672	62.727	2.849	51,5	3,8	49,9	3,5	17,9
Hakkari	176.683	859.701	3,8	58.455	0,21	42.862	92.994	5.910	64,0	2,2	107,7	1,2	5,3
Hatay	4.964.441	7.252.724	8,1	620.987	0,41	241.614	756.566	81.258	75,7	3,1	88,2	1,0	16,9
Isparta	1.284.024	2.728.659	9,6	376.402	0,90	102.002	489.453	45.559	68,3	4,8	52,0	2,2	15,6
Mersin	6.226.736	8.715.519	8,8	529.937	0,31	230.448	878.881	92.915	71,7	3,8	68,6	1,5	18,6
İstanbul	35.902.371	71.562.834	7,6	5.190.767	0,37	1.964.876	7.441.546	843.745	61,6	3,8	59,4	2,4	17,8
İzmir	13.592.935	23.374.739	9,1	1.807.119	0,44	656.591	2.808.356	275.591	67,7	4,3	57,8	2,0	21,9
Kars	504.072	1.204.132	5,7	146.841	0,49	43.277	177.272	15.642	62,9	4,1	56,1	2,4	7,5
Kastamonu	885.197	1.854.658	7,4	196.305	0,53	49.298	230.112	12.840	58,0	4,7	45,4	3,4	19,2
Kayseri	3.675.331	6.843.539	8,1	630.030	0,49	326.049	984.255	120.053	67,9	3,0	82,0	1,4	13,4
Kırklareli	1.186.188	1.813.668	8,8	173.867	0,51	49.447	149.104	11.699	54,4	3,0	65,8	2,5	11,6
Kırşehir	571.851	1.383.142	8,7	142.533	0,64	35.128	105.194	10.510	57,9	3,0	70,5	2,2	13,8
Kocaeli	5.347.280	9.344.983	8,8	986.040	0,59	244.681	948.623	102.173	64,1	3,9	60,4	2,2	17,8
Konya	6.507.785	10.811.890	8,3	1.274.267	0,61	360.404	1.469.080	146.135	60,1	4,1	53,9	2,7	15,3
Kütahya	1.906.206	2.647.498	8,0	270.175	0,47	83.513	434.647	29.687	68,8	5,2	48,2	2,4	18,1
Malatya	1.906.945	4.443.015	8,3	478.546	0,63	161.489	603.230	69.488	71,0	3,7	69,4	1,5	10,6

Source: Public Health Institution of Turkey, General Directorate of Health Services, Turkish Institution of Public Hospitals

Table 7.24. Some Health Indicators by Provinces, Turkey, 2013- Continued

City	Primary Health Care Facilities Total Visits	Secondary and Tertiary Health Care Total Visits	Per Capita Physician Visits	Number of Dentist Visits	Per Capita Dentist Visits	Number of Inpatients	Number of Days Stayed In Hospitals	Number of Surgical Operation	Bed Occupancy Rate	Average Length of Stay in Hospital	Bed Turnover Rate in Hospital	Bed Turnover Interval in Hospital	Crude Death Rate in Hospital
Manisa	3.944.831	7.563.192	8,5	750.550	0,55	226.917	1.026.432	77.051	72,5	4,5	58,5	1,7	17,5
Kahramanmaraş	2.866.369	5.219.642	7,5	505.461	0,47	146.844	538.934	58.161	67,7	3,7	67,3	1,8	11,8
Mardin	1.464.655	3.483.612	6,3	283.898	0,36	78.808	207.608	29.718	58,8	2,6	81,4	1,8	8,7
Muğla	3.187.946	4.287.599	8,6	387.073	0,45	118.219	375.319	36.129	53,0	3,2	60,9	2,8	12,6
Muş	536.619	1.689.671	5,4	139.075	0,34	38.427	165.667	10.842	60,0	4,3	50,8	2,9	7,1
Neveşehir	1.024.989	1.285.454	8,1	145.662	0,51	38.259	143.833	29.118	67,9	3,8	66,0	1,8	10,2
Niğde	1.143.306	1.481.315	7,6	179.926	0,52	48.921	191.577	9.985	77,1	3,9	71,8	1,2	10,7
Ordu	1.861.816	4.069.698	8,1	341.822	0,47	143.130	482.988	44.753	69,5	3,4	75,1	1,5	14,1
Rize	1.032.597	2.317.418	10,2	186.737	0,57	65.656	237.177	17.443	63,8	3,6	64,5	2,0	18,9
Sakarya	2.878.696	4.800.339	8,4	405.517	0,44	115.416	397.999	52.361	64,5	3,4	68,3	1,9	13,9
Samsun	3.432.650	8.278.547	9,3	1.017.417	0,81	248.553	1.185.166	96.119	79,7	4,8	61,0	1,2	26,8
Siirt	383.203	1.308.851	5,4	138.787	0,44	61.099	153.578	14.927	69,9	2,5	101,5	1,1	3,3
Sinop	681.126	1.019.242	8,3	134.741	0,66	25.184	89.668	10.440	48,2	3,6	49,4	3,8	14,9
Sivas	1.529.231	3.557.576	8,2	428.968	0,69	108.546	554.304	37.941	62,1	5,1	44,4	3,1	19,3
Tekirdağ	3.010.845	4.219.517	8,3	587.473	0,67	119.156	415.776	37.258	60,8	3,5	63,6	2,2	19,8
Tokat	1.417.362	3.442.554	8,1	351.161	0,59	103.079	432.437	35.921	62,1	4,2	54,1	2,6	16,1
Trabzon	2.499.351	5.135.406	10,1	375.707	0,50	166.046	889.539	60.515	73,3	5,4	49,9	2,0	17,1
Tunceli	210.631	267.285	5,6	59.649	0,70	6.128	30.378	1.541	44,5	5,0	32,8	6,2	8,8
Şanlıurfa	3.521.866	12.674.654	9,0	487.992	0,27	262.651	705.470	71.330	71,6	2,7	97,4	1,1	11,6
Uşak	1.423.292	1.927.983	9,7	175.003	0,51	73.047	227.259	27.133	63,7	3,1	74,7	1,8	20,3
Van	1.653.789	5.032.304	6,2	379.685	0,35	152.136	585.754	47.910	65,7	3,9	62,3	2,0	12,2
Yozgat	885.574	2.259.744	7,1	207.832	0,47	50.706	186.492	14.745	50,2	3,7	49,8	3,7	13,0
Zonguldak	1.664.581	4.013.104	9,4	417.672	0,69	116.752	531.972	37.562	70,9	4,6	56,8	1,9	17,3
Aksaray	1.157.717	1.662.793	7,4	149.666	0,39	55.733	150.546	17.295	58,8	2,7	79,5	1,9	11,1
Bayburt	206.706	354.668	7,4	47.448	0,63	11.812	47.840	3.802	87,4	4,1	78,7	0,6	11,9
Karaman	725.633	1.140.094	7,8	128.581	0,54	31.795	117.969	9.747	53,8	3,7	52,9	3,2	14,7
Kırıkkale	881.868	1.504.989	8,7	268.882	0,98	45.295	210.351	12.803	70,9	4,6	55,7	1,9	22,4
Batman	910.355	2.671.309	6,5	178.691	0,33	82.286	249.679	35.114	65,1	3,0	78,4	1,6	13,8
Şırnak	567.697	1.852.452	5,1	137.335	0,29	49.676	144.539	13.033	57,9	2,9	72,6	2,1	9,0
Bartın	779.911	961.031	9,2	113.130	0,60	26.469	123.889	5.310	80,4	4,7	62,7	1,1	19,9
Ardahan	243.632	381.147	6,1	49.748	0,48	10.469	47.190	3.261	51,7	4,5	41,9	4,2	18,3
İğdir	426.272	736.073	6,1	86.008	0,45	16.838	51.927	5.173	48,1	3,1	56,9	3,3	10,7
Yalova	770.036	1.358.405	9,7	140.083	0,64	31.493	84.812	11.623	60,8	2,7	82,4	1,7	27,4
Karabük	722.194	1.471.293	9,5	165.564	0,72	46.523	182.188	14.554	74,7	3,9	69,6	1,3	18,1
Kilis	590.439	648.363	9,6	79.663	0,62	15.785	61.973	9.318	87,5	3,9	81,4	0,6	33,1
Osmaniye	1.678.270	2.602.471	8,6	267.998	0,54	107.267	246.646	42.196	71,6	2,3	113,6	0,9	10,8
Düzce	1.134.681	1.644.384	7,9	146.512	0,42	50.417	158.575	17.592	64,4	3,1	74,7	1,7	15,8
Turkey	220.252.781	410.068.343	8,2	37.760.696	0,49	12.373.557	48.679.990	4.684.237	66,0	3,9	61,2	2,0	16,7

Source: Public Health Institution of Turkey, General Directorate of Health Services, Turkish Institution of Public Hospitals

Explanations for Chapter 7

- ☑ Number of visits; It was defined by the OECD as “visits to physicians for any reason except via the phone”.
- ☑ The service data from the Ministry of National Defense (MoND) were only included for 2012 and 2013.
- ☑ For it to be comparable, the services of the Other Public Institutions were included in the Private Sector.
- ☑ The number of visits to a dentist is not included in the number of visits to a physician.
- ☑ The hospitals affiliated to the other public agencies and local authorities and the services belonging to them have been included in the “Private” sector.
- ☑ The data belonging to the SSI hospitals between 2002-2005 have been included in the Ministry of Health to be comparable.

- ☑ **Information regarding the surgical operations;** The surgical classification is based on the World Health Organization’s International Classification of Health Intervention (ICHI). Number of surgical operations (group A, B and C) were calculated in accordance with the definitions in this classification. According to the World Health Organization’s ICHI, diagnostic and minor surgical procedures are not included in the surgical operations.

- ☑ **Bed Occupancy Rate:** This indicates the rate of bed usage by the patient within one year. It is calculated as follows: $(\text{Number of Days Stayed} \times 100) / (\text{Number of beds} \times 365)$.

- ☑ **Acute Care Bed Occupancy Rate:** This indicator is used by the OECD. It indicates the occupancy rate of beds used for acute services.

- ☑ **Average Length of Stay:** The average number of days a patient stays in a hospital. It is calculated as follows: $(\text{Number of Days Stayed}) / \text{number of patients (Discharged} + \text{Deceased)}$.

- ☑ **Bed Turnover Rate:** This indicates how many times a bed has been used by patients per year. It is calculated as: $(\text{Number of Inpatients}) / (\text{Number of Beds})$.

- ☑ **Bed turnover interval:** Average period in days that an available bed remains empty between the discharge of one inpatient and the admission of the next. It is calculated as: $(\text{Number of Beds} \times 365 - \text{Number of Days Stayed}) / \text{number of patients (Discharged} + \text{Deceased)}$.

- ☑ **Crude Death Rate (in hospitals):** It indicates the proportion of patients who died in a hospital within a year to those who died and discharged from the hospital in the same period. $(\text{Number of people who died}) / (\text{Discharged} + \text{Deceased}) \times 1.000$.

- ☑ 112 Emergency care ambulance; a land vehicle with an ambulance crew, technical and medical equipment that are able to provide emergency medical interventions in any emergency situation for the sick and injured at the emergency scene and in the ambulance. “Other Ambulances”: ambulances of the health centers, hospitals and provincial health directorates. The private sector ambulances are not included in the total.
- ☑ **Generic Drug:** The products which contain the same active substance with the reference product with the same amount and in the same pharmaceutical form and the bio equivalency (BE) of which is accepted under different trade names are called equivalent drugs.

- ☑ **Original Drug:** It is an international term used for the new drugs which have been proved to have positive effect on a particular disease as a result of long researches and clinical studies, which are based on a patented molecule, and which are previously unprecedented.

- ☑ And the parts shown as Other in Figure 7.34 and Figure 7.35 are products which do not have a distinction of original/generic.



Chapter 8

Human Resources for Health

Table 8.1. Number of Health Care Professionals by Years, All Sectors, Turkey

	2002	2009	2010	2011	2012	2013
Specialist Physicians	45.457	60.655	63.563	66.064	70.103	73.886
General Practitioners	30.900	35.911	38.818	39.712	38.877	38.572
Medical Residents	15.592	22.075	21.066	20.253	20.792	21.317
Physicians Total	91.949	118.641	123.447	126.029	129.772	133.775
Dentists	16.371	20.589	21.432	21.099	21.404	22.295
Pharmacists	22.289	25.201	26.506	26.089	26.571	27.012
Nurses	72.393	105.176	114.772	124.982	134.906	139.544
Midwives	41.479	49.357	50.343	51.905	53.466	53.427
Other Health Personnel	50.106	93.550	99.302	110.862	122.663	134.488
Other Personnel and Procurement of Services	83.964	197.386	198.694	209.126	209.736	224.618
TOTAL	378.551	609.900	634.496	670.092	698.518	735.159

Source: General Directorate of Health Services, General Directorate of Management Services

Table 8.2. Distribution of Health Care Professionals by Sectors and Titles, 2013

	Ministry of Health	University	Private	Other	Total
Specialist Physicians	35.081	14.911	22.735	1.159	73.886
General Practitioners	32.601	222	5.731	18	38.572
Medical Residents	7.814	13.179	0	324	21.317
Physicians Total	75.496	28.312	28.466	1.501	133.775
Dentists	7.997	967	13.151	180	22.295
Pharmacists	2.067	291	24.589	65	27.012
Nurses	93.700	21.302	21.841	2.701	139.544
Midwives	48.694	788	3.877	68	53.427
Other Health Personnel	96.391	11.093	26.393	611	134.488
Other Personnel and Procurement of Services	186.217	11.800	21.616	4.985	224.618
TOTAL	510.562	74.553	139.933	10.111	735.159

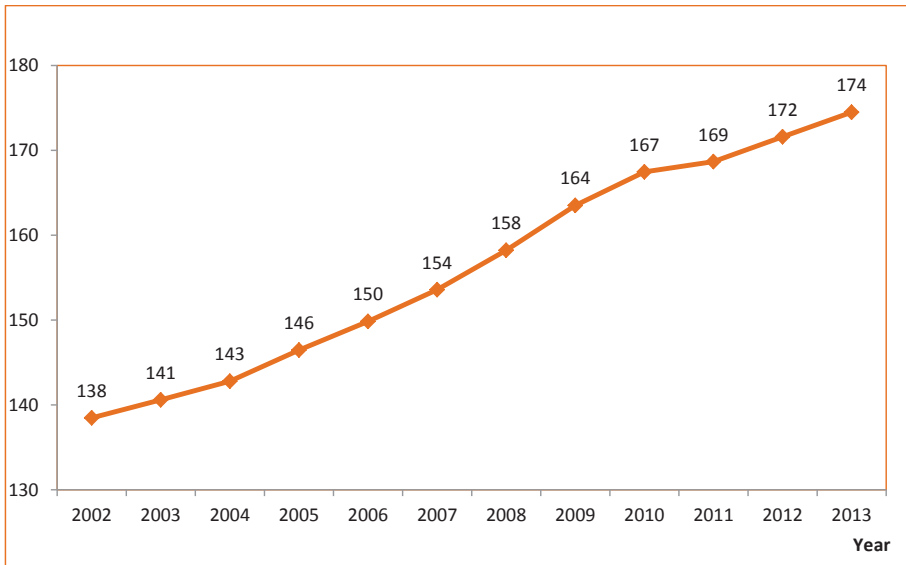
Source: General Directorate of Health Services, General Directorate of Management Services

Table 8.3. Number of Health Care Professionals by Years, Ministry of Health

	2002	2009	2010	2011	2012	2013
Specialist Physicians	22.187	27.537	31.527	32.623	34.069	35.081
General Practitioners	29.030	30.417	33.229	33.523	32.457	32.601
Medical Residents	6.189	9.031	7.679	7.236	7.137	7.814
Physicians Total	57.406	66.985	72.435	73.382	73.663	75.496
Dentists	3.211	5.795	7.069	7.225	7.291	7.997
Pharmacists	1.596	1.535	1.854	1.891	1.920	2.067
Nurses	54.360	72.142	77.472	89.314	92.118	93.700
Midwives	39.473	44.468	45.515	46.944	48.409	48.694
Other Health Personnel	33.276	66.192	70.701	82.201	83.542	96.391
Other Personnel and Procurement of Services	67.496	169.437	172.296	181.295	181.824	186.217
TOTAL	256.818	426.554	447.342	482.252	488.767	510.562

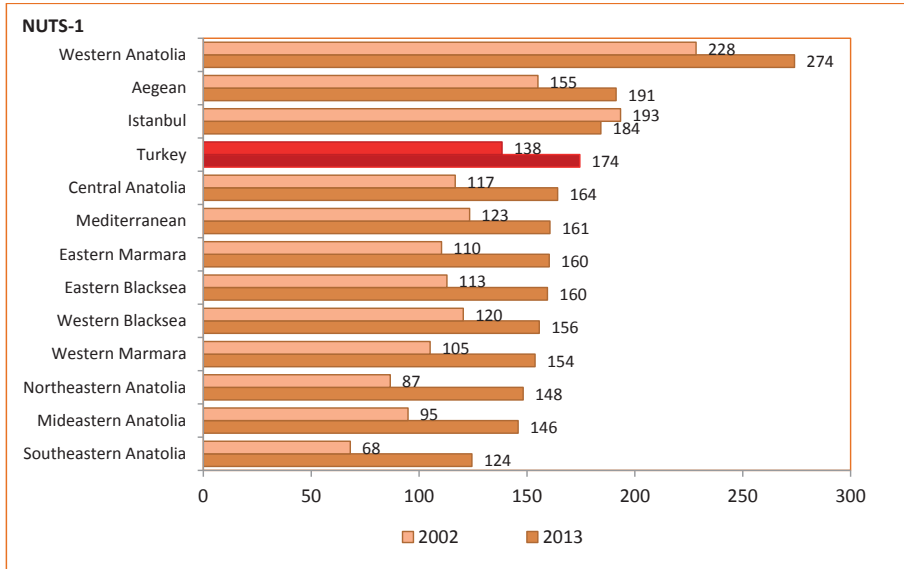
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.1. Number of Total Physicians per 100.000 Population by Years, All Sectors



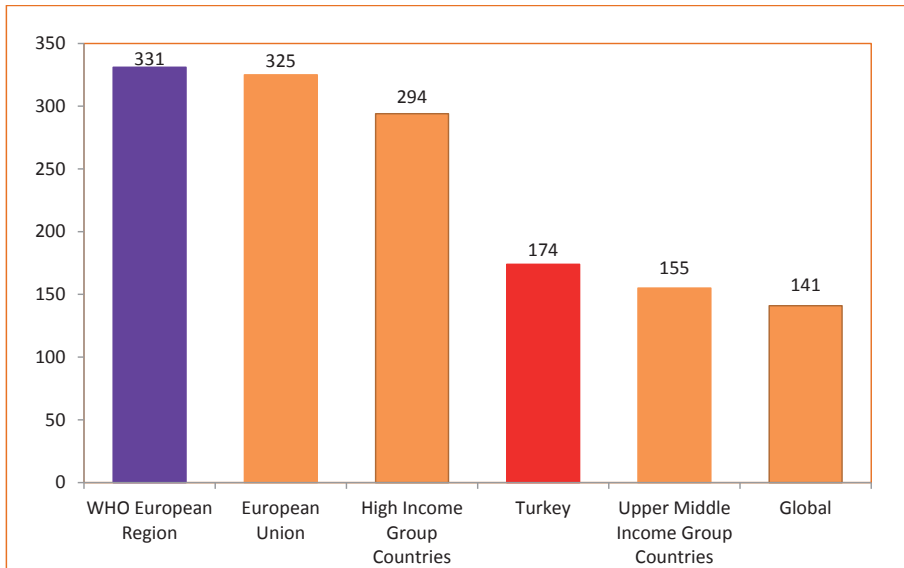
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.2. Number of Total Physicians per 100.000 Population by NUTS-1, All Sectors, 2002, 2013



Source: General Directorate of Health Services, General Directorate of Management Services

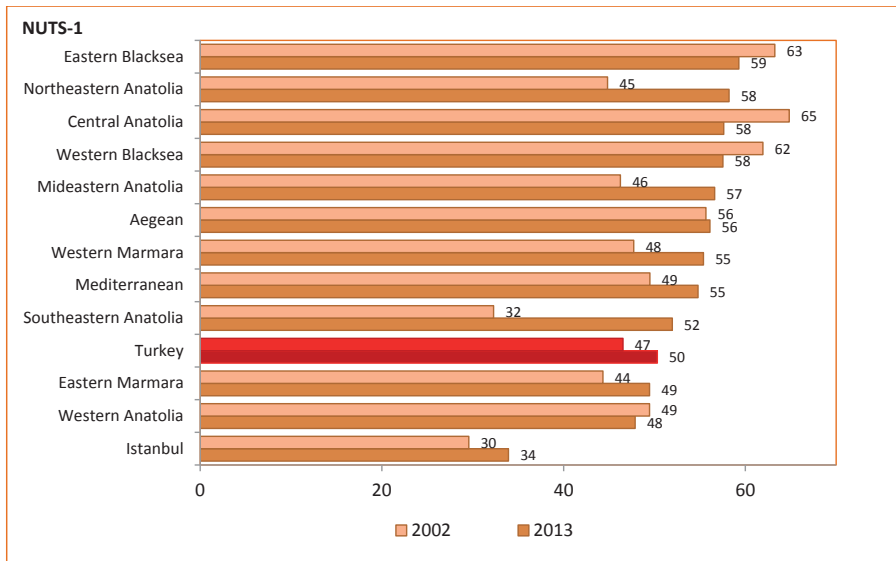
Figure 8.3. International Comparison of Total Number of Physicians per 100.000 Population, 2013



Source: General Directorate of Health Services, General Directorate of Management Services, WHO World Health Statistics 2014

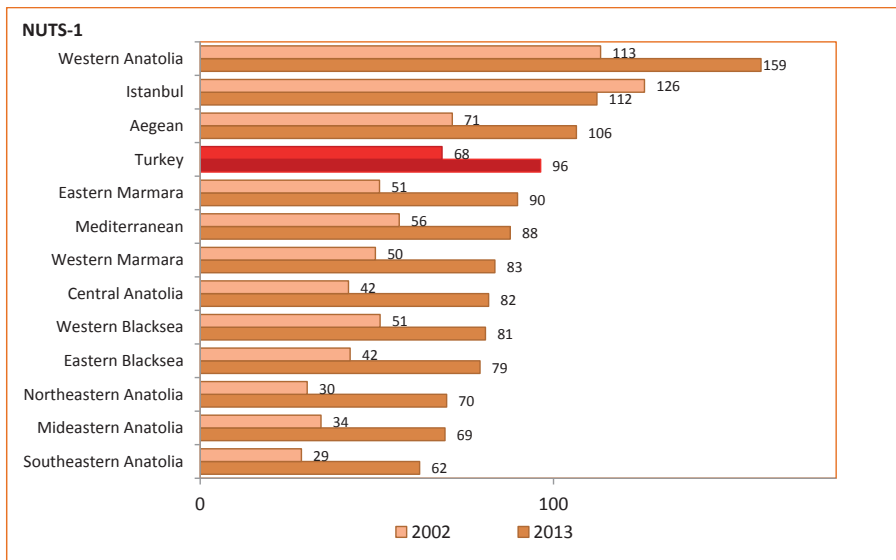
Note: The data for international regions are the data of the latest year between the years 2006-2013.

Figure 8.4. Number of General Practitioners per 100.000 Population by NUTS-1, All Sectors, 2002, 2013



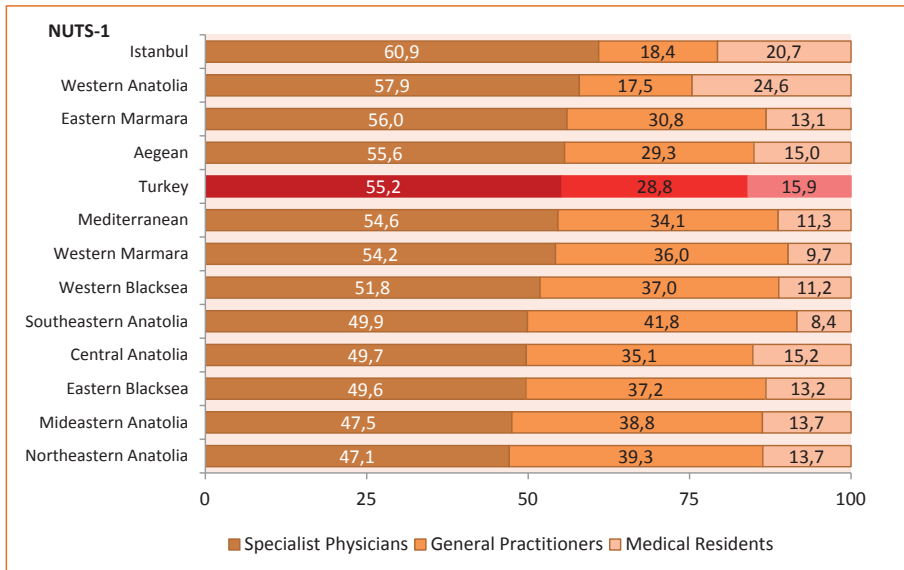
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.5. Number of Specialist Physicians per 100.000 Population by NUTS-1, All Sectors, 2002, 2013



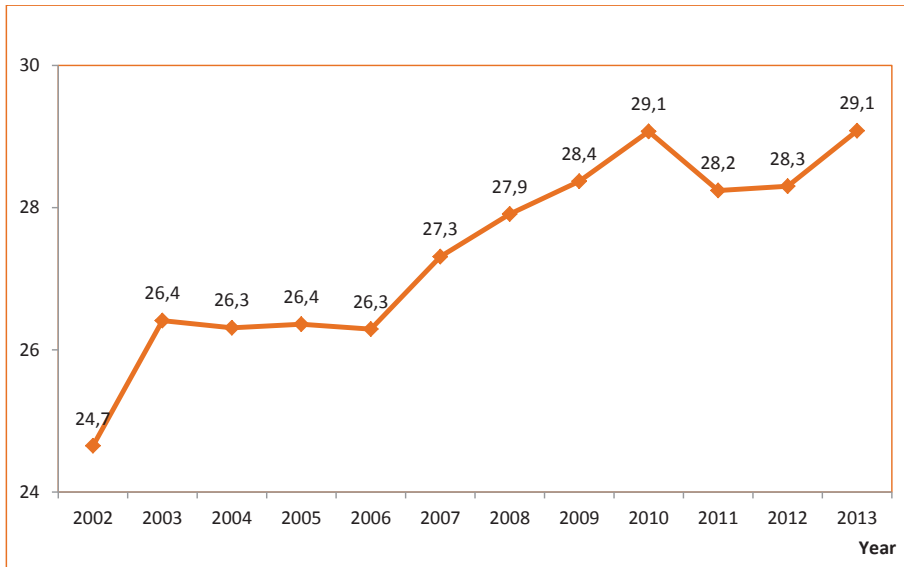
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.6. Distribution of Specialist Physicians, Medical Residents and General Practitioners by NUTS-1, All Sectors, (%), 2013



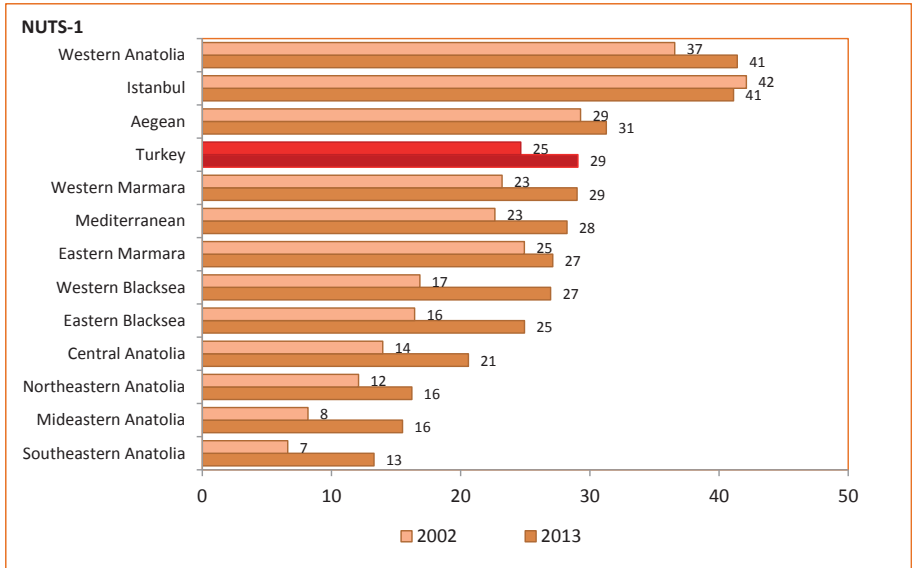
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.7. Number of Dentists per 100.000 Population by Years, All Sectors



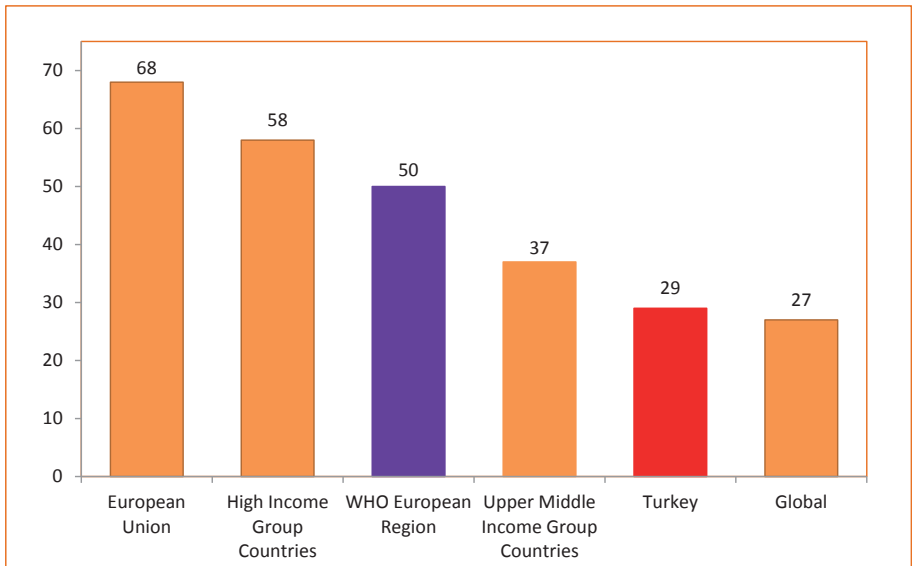
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.8. Number of Dentists per 100.000 Population by NUTS-1, All Sectors, 2002, 2013



Source: General Directorate of Health Services, General Directorate of Management Services

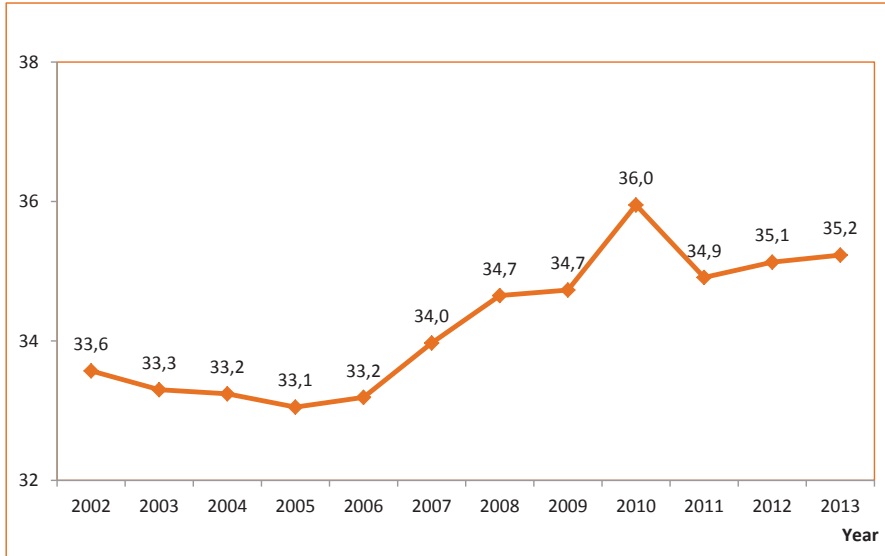
Figure 8.9. International Comparison of Number of Dentists per 100.000 Population, 2013



Source: General Directorate of Health Services, General Directorate of Management Services, WHO World Health Statistics 2014

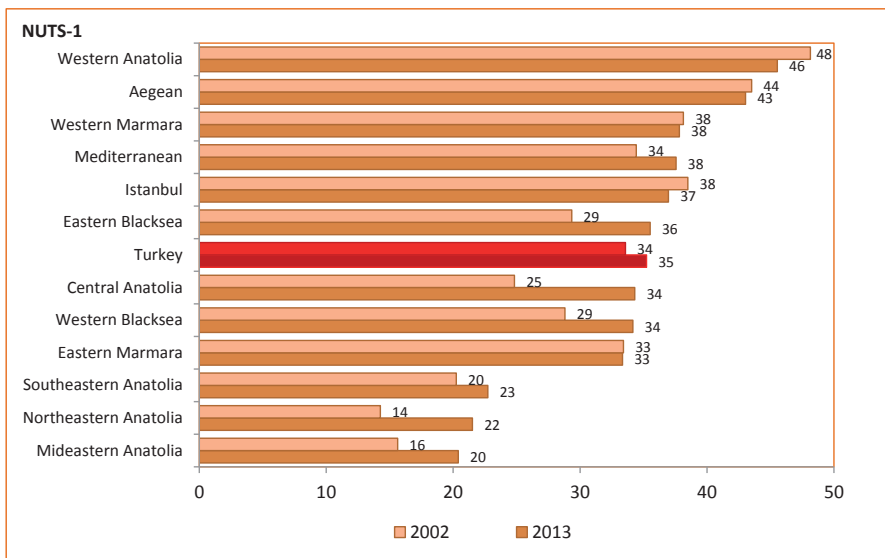
Note: The data for international regions are the data of the latest year between the years 2006-2013.

Figure 8.10. Number of Pharmacists per 100.000 Population by Years, All Sectors



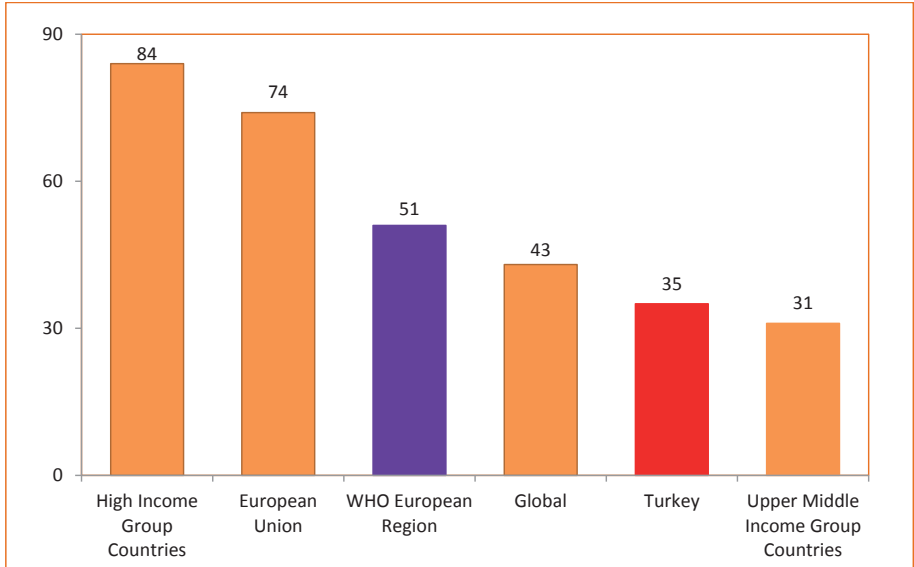
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.11. Number of Pharmacists per 100.000 Population by NUTS-1, All Sectors, 2002, 2013



Source: General Directorate of Health Services, General Directorate of Management Services

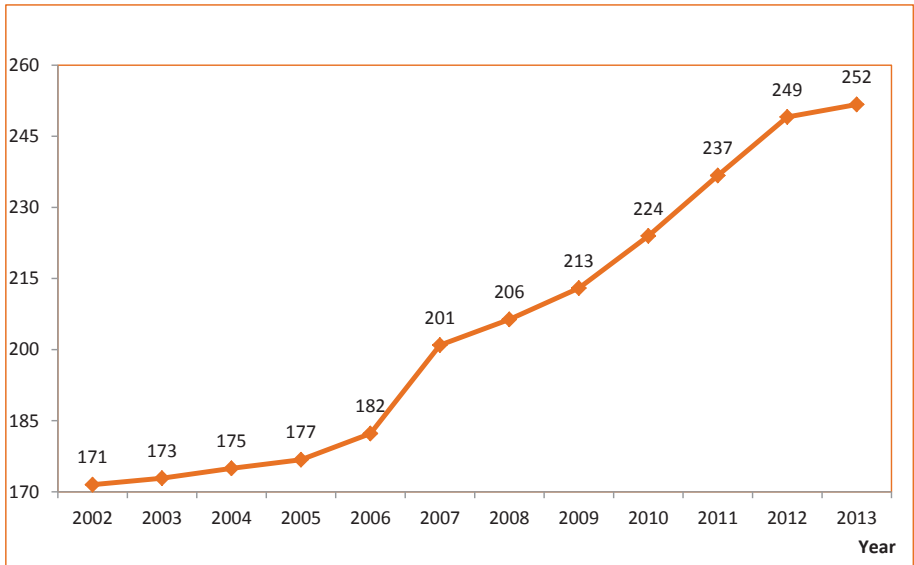
Figure 8.12. International Comparison of Number of Pharmacists per 100.000 Population, 2013



Source: General Directorate of Health Services, General Directorate of Management Services, WHO World Health Statistics 2014

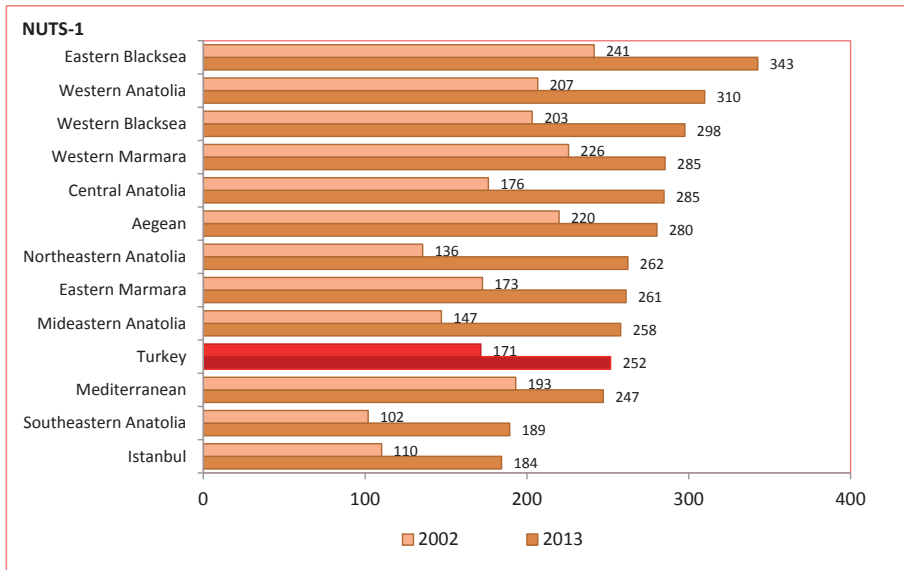
Note: The data for international regions are the data of the latest year between the years 2006-2013.

Figure 8.13. Number of Nurses and Midwives per 100.000 Population by Years, All Sectors



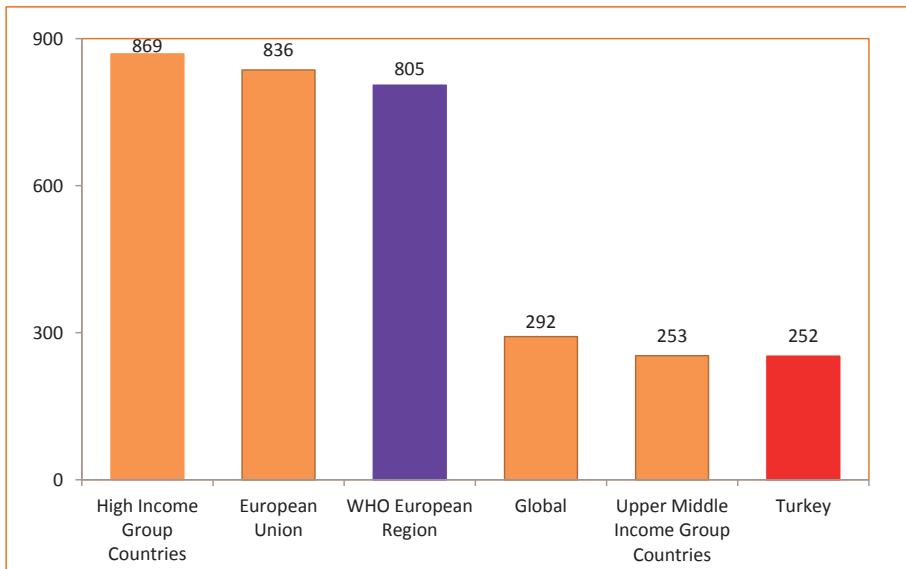
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.14. Number of Nurses and Midwives per 100.000 Population by NUTS-1, All Sectors, 2002, 2013



Source: General Directorate of Health Services, General Directorate of Management Services

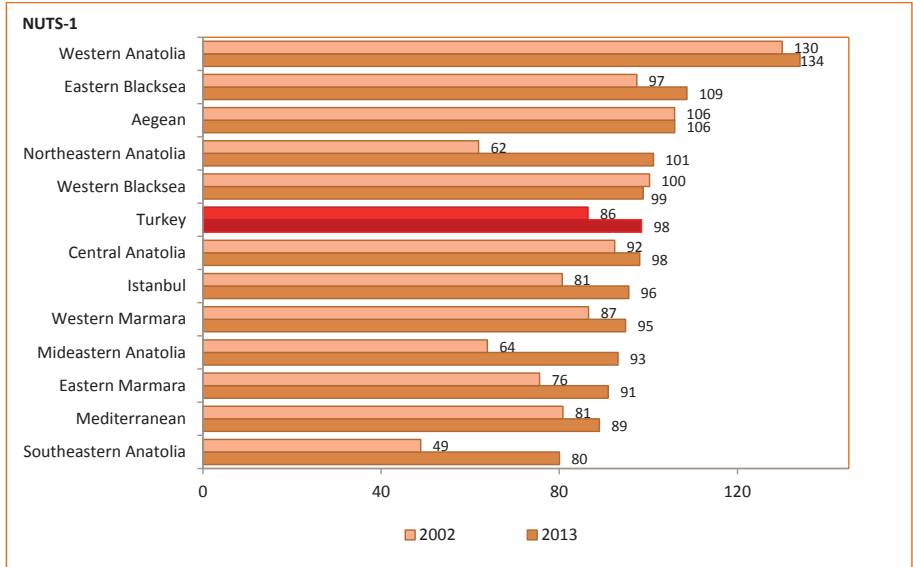
Figure 8.15. International Comparison of Number of Nurses and Midwives per 100.000 Population, 2013



Source: General Directorate of Health Services, General Directorate of Management Services, WHO World Health Statistics 2014

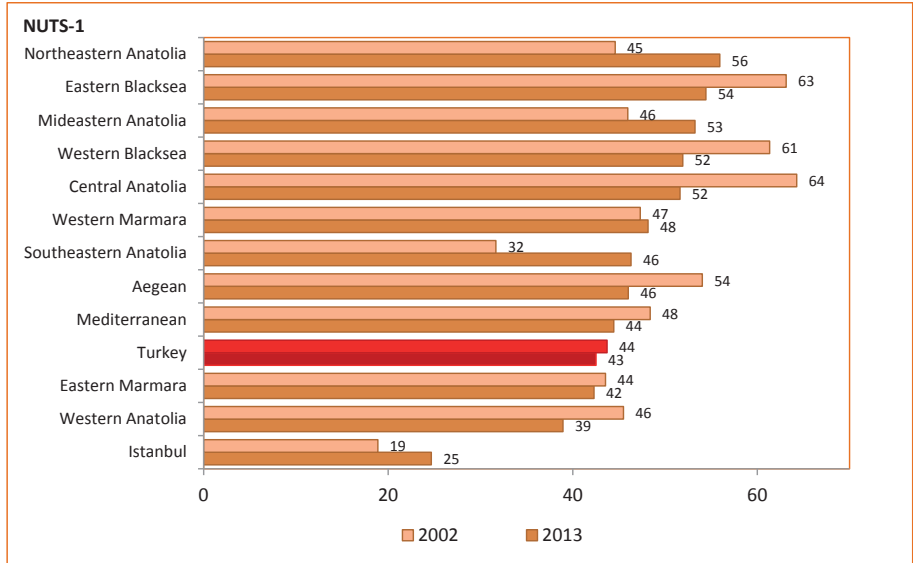
Note: The data for international regions are the data of the latest year between the years 2006-2013.

Figure 8.16. Number of Total Physicians per 100.000 Population by NUTS-1, MoH, 2002, 2013



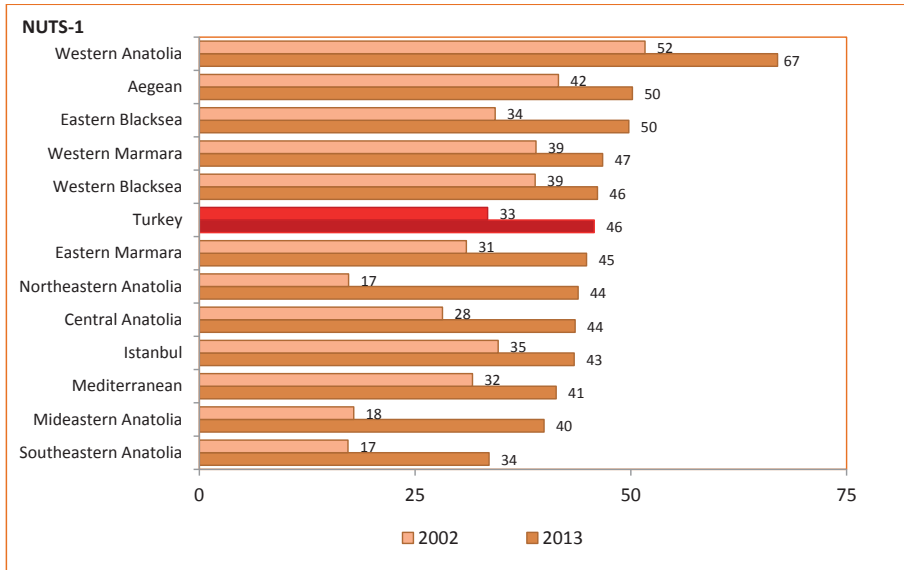
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.17. Number of General Practitioners per 100.000 Population by NUTS-1, MoH, 2002, 2013



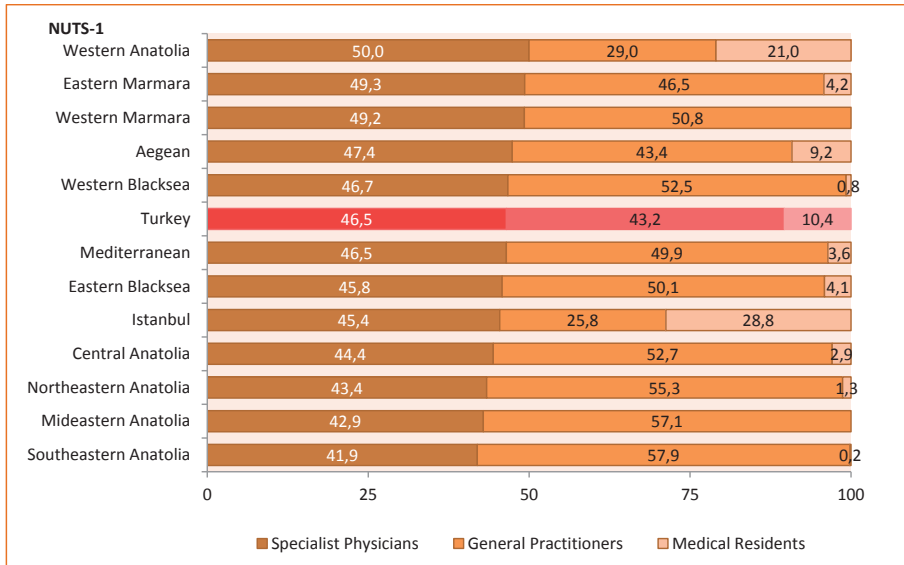
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.18. Number of Specialist Physicians per 100.000 Population by NUTS-1, MoH, 2002, 2013



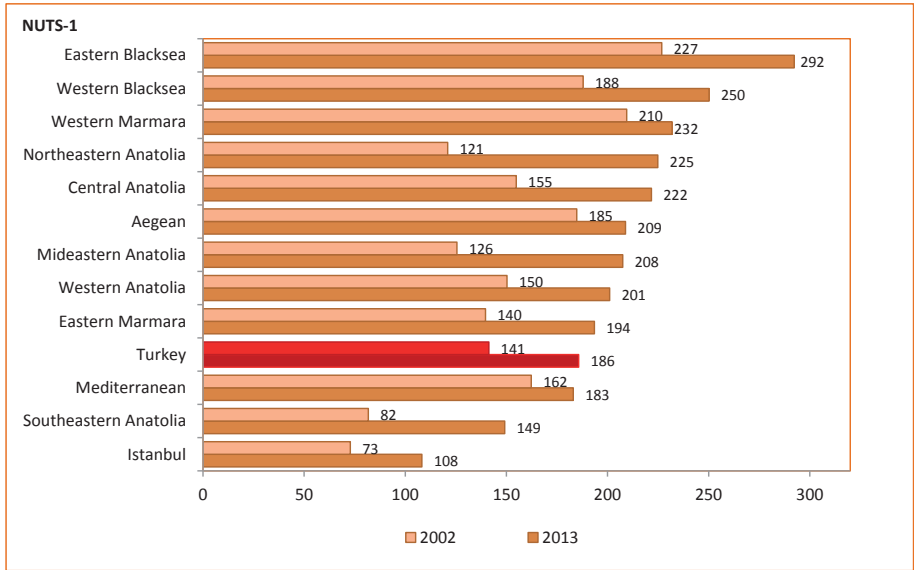
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.19. Distribution of Specialist Physicians, Medical Residents and General Practitioners by NUTS-1, MoH, (%), 2013



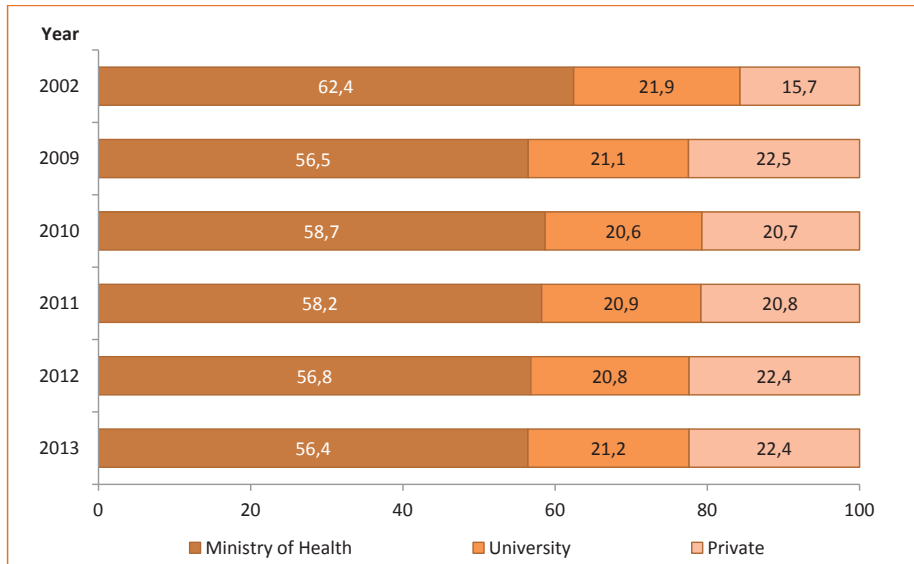
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.20. Number of Nurses and Midwives per 100.000 Population by NUTS-1, MoH, 2002, 2013



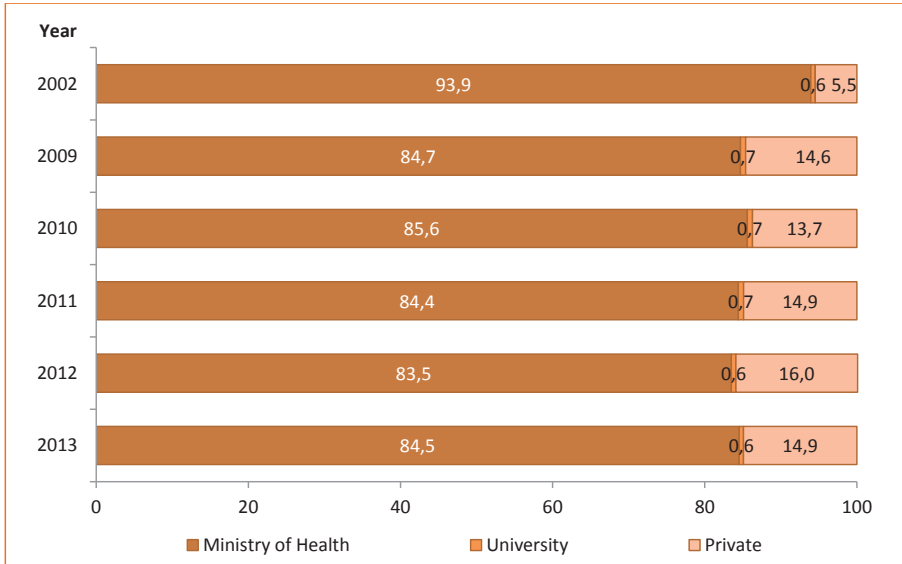
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.21. Distribution of Total Physicians by Years and Sectors, (%), Turkey



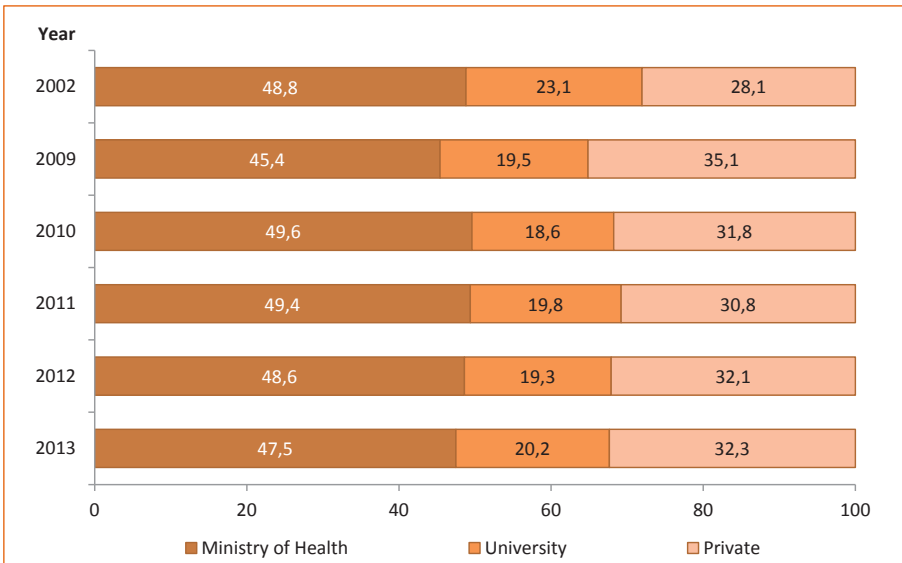
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.22. Distribution of General Practitioners by Years and Sectors, (%), Turkey



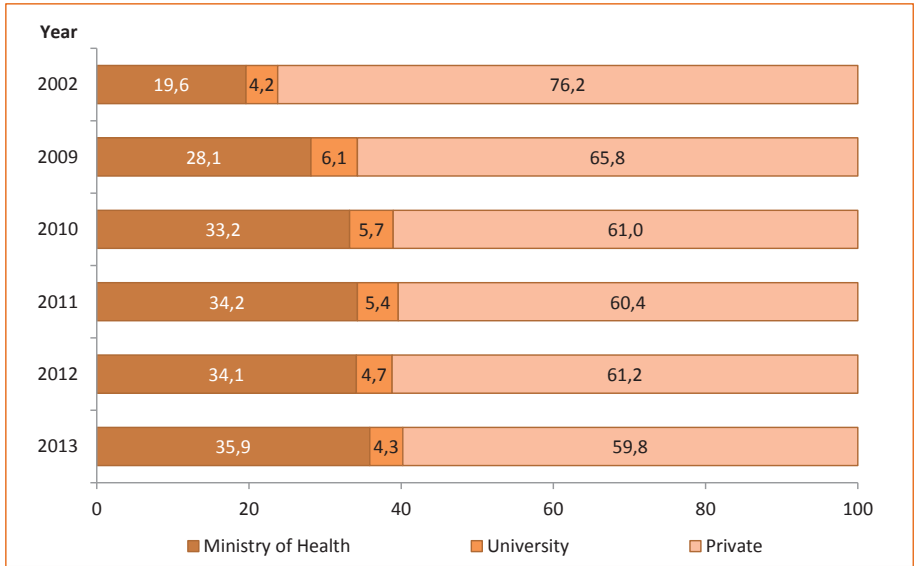
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.23. Distribution of Specialist Physicians by Years and Sectors, (%), Turkey



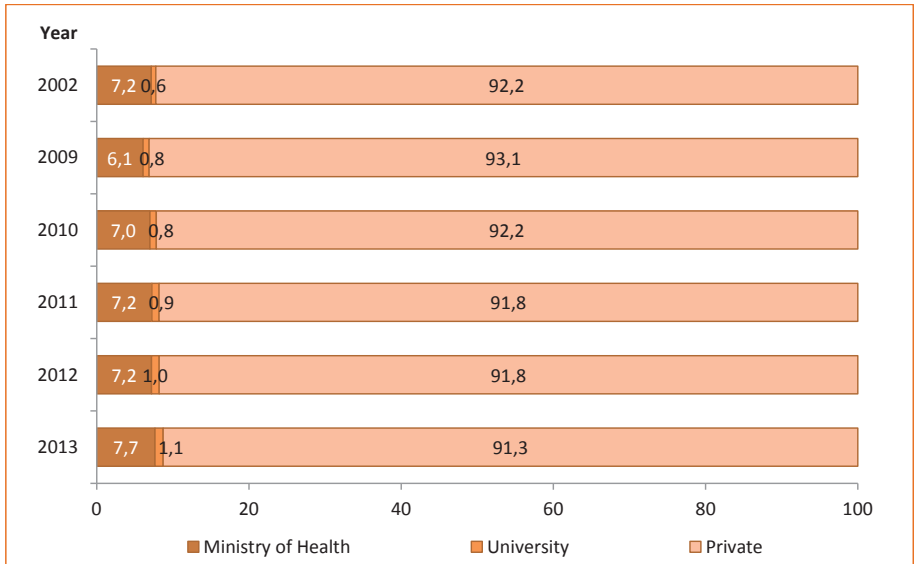
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.24. Distribution of Dentists by Years and Sectors, (%), Turkey



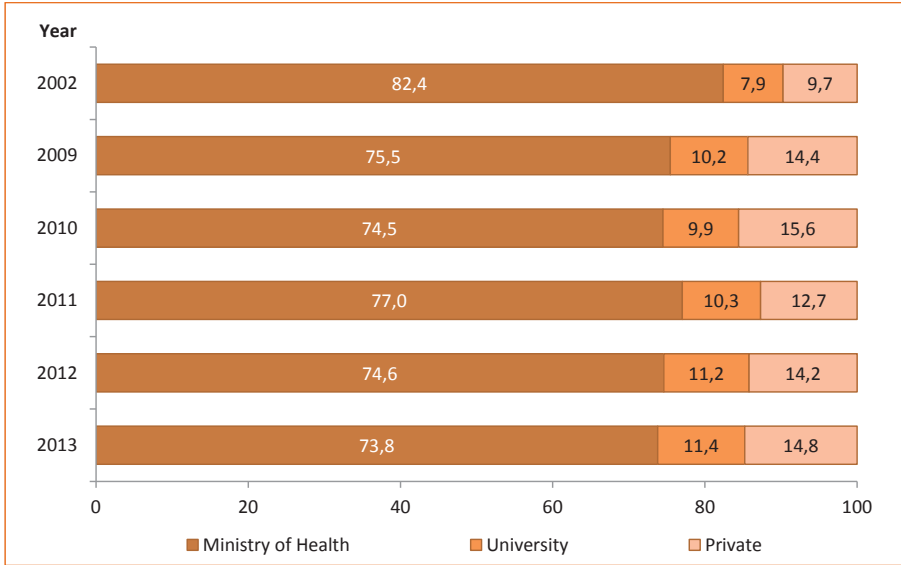
Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.25. Distribution of Pharmacists by Years and Sectors, (%), Turkey



Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.26. Distribution of Nurses and Midwives by Years and Sectors, (%), Turkey



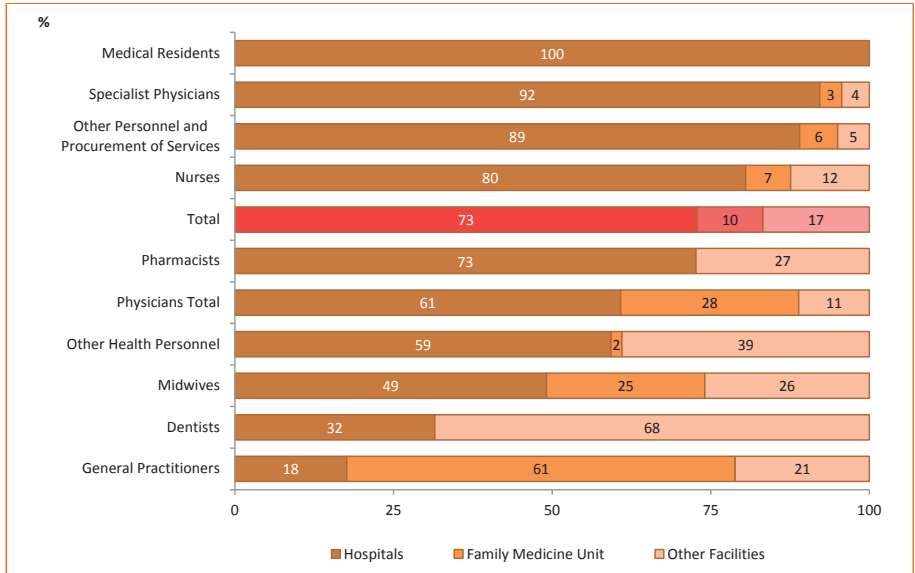
Source: General Directorate of Health Services, General Directorate of Management Services

Table 8.4. Distribution of MoH Personnel by Service Units, MoH, 2013

	Hospitals	Family Medicine Unit	Other Facilities	Total
Specialist Physicians	32.339	1.215	1.527	35.081
General Practitioners	5.745	19.960	6.896	32.601
Medical Residents	7.814	0	0	7.814
Physicians Total	45.898	21.175	8.423	75.496
Dentists	2.520	0	5.477	7.997
Pharmacists	1.502	0	565	2.067
Nurses	75.417	6.642	11.641	93.700
Midwives	23.920	12.146	12.628	48.694
Other Health Personnel	57.134	1.664	37.593	96.391
Other Personnel and Procurement of Services	165.733	11.173	9.311	186.217
TOTAL	372.124	52.800	85.638	510.562

Source: General Directorate of Health Services, General Directorate of Management Services

Figure 8.27. Distribution of MoH Personnel by Service Units, (%), MoH, 2013



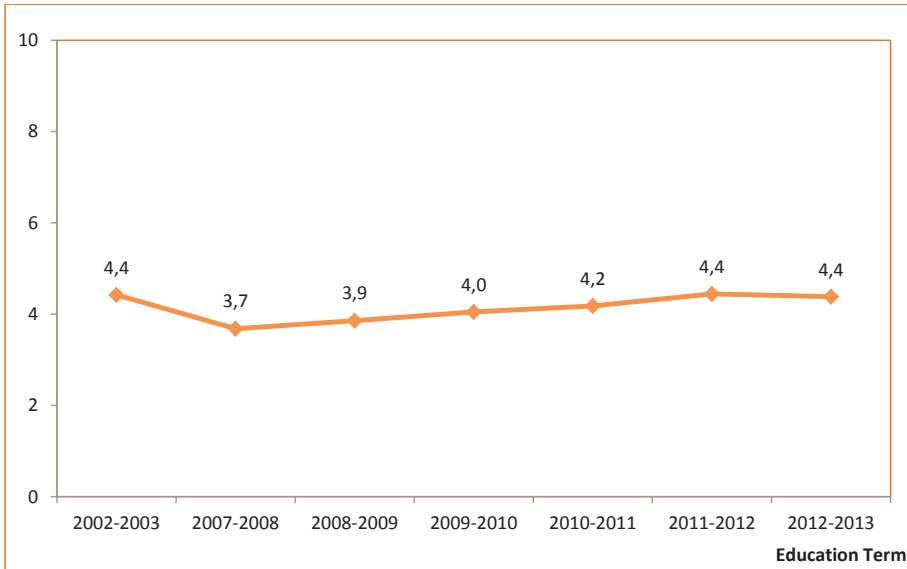
Source: General Directorate of Health Services, General Directorate of Management Services

Table 8.5. Number of Students and Academic Staff Member in Faculties of Medicine by Education Terms, Turkey

Education Term	Number of Faculties	Number of Students			Number of Academic Staff Member
		Recently Enrolled	Still in Education	Graduates	
2002-2003	44	4.945	31.719	4.487	7.172
2007-2008	49	5.253	33.802	4.753	9.182
2008-2009	56	6.655	35.454	5.087	9.192
2009-2010	61	7.877	38.369	5.138	9.479
2010-2011	69	8.438	41.664	4.981	9.970
2011-2012	72	9.332	46.383	4.949	10.440
2012-2013	75	10.158	51.445	-	11.741

Source: SSPC Higher Education Statistics

Figure 8.28. Number of Students per Academic Staff Member in Faculties of Medicine by Education Terms, Turkey



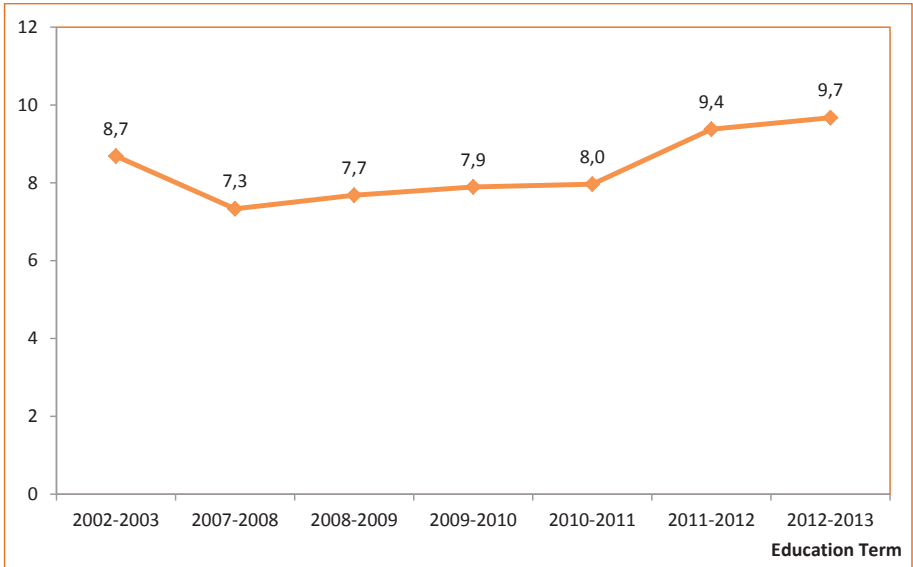
Source: SSPC Higher Education Statistics

Table 8.6. Number of Students and Academic Staff Member in Faculties of Dentistry by Education Terms, Turkey

Education Term	Number of Faculties	Number of Students			Number of Academic Staff Member
		Recently Enrolled	Still in Education	Graduates	
2002-2003	14	975	5.256	856	605
2007-2008	18	1.132	5.926	994	808
2008-2009	19	1.458	6.322	927	823
2009-2010	22	1.700	7.082	950	897
2010-2011	27	1.998	7.528	1.098	945
2011-2012	31	2.347	9.358	1.083	998
2012-2013	35	2.908	11.133	-	1.151

Source: SSPC Higher Education Statistics

Figure 8.29. Number of Students per Academic Staff in Faculties of Dentistry by Education Terms, Turkey



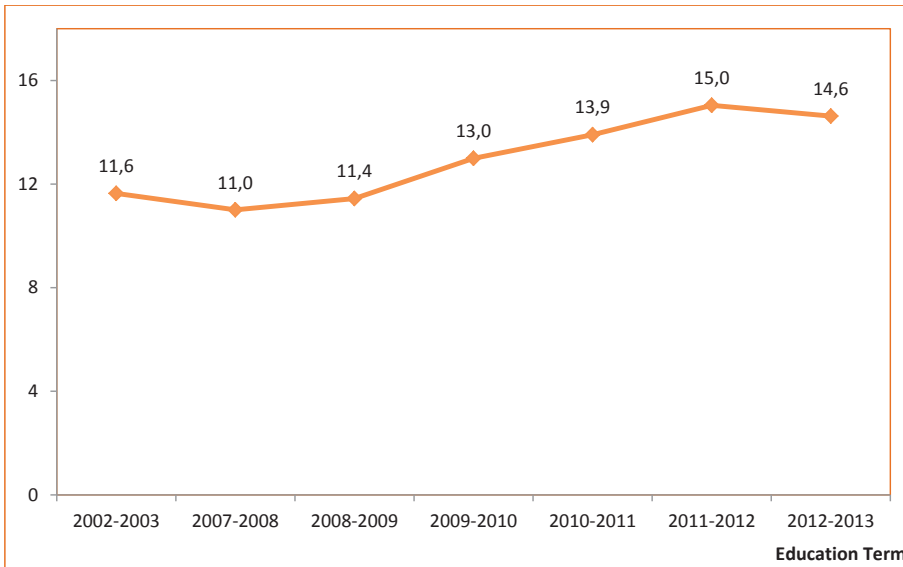
Source: SSPC Higher Education Statistics

Table 8.7. Number of Students and Academic Staff Member in Faculties of Pharmacy by Education Terms, Turkey

Education Term	Number of Faculties	Number of Students			Number of Academic Staff Member
		Recently Enrolled	Still in Education	Graduates	
2002-2003	11	939	4.120	792	354
2007-2008	12	1.020	4.666	966	424
2008-2009	12	1.195	4.896	374	428
2009-2010	12	1.265	5.821	815	448
2010-2011	15	1.421	6.368	998	458
2011-2012	19	1.483	7.069	1.016	470
2012-2013	20	1.624	7.693	-	526

Source: SSPC Higher Education Statistics

Figure 8.30. Number of Students per Academic Staff Member in Faculties of Pharmacy by Education Terms, Turkey



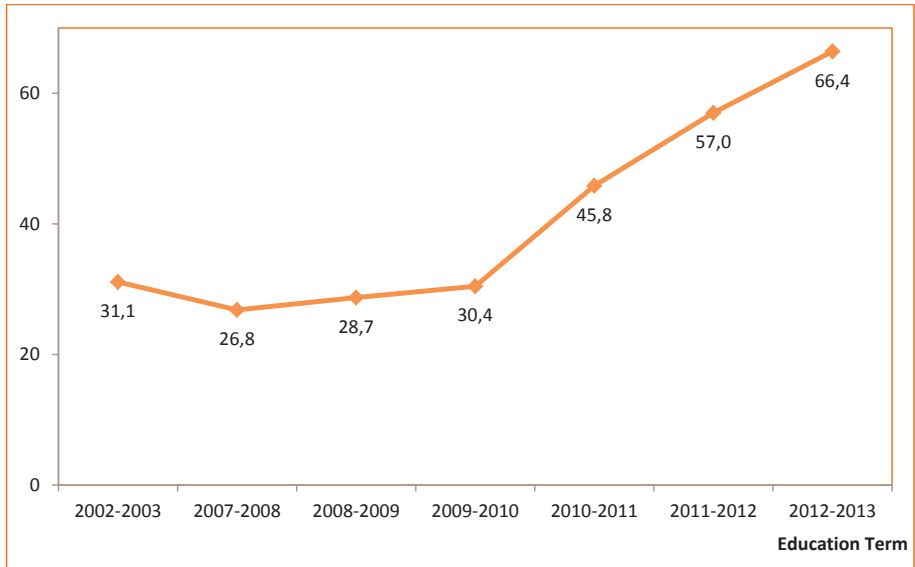
Source: SSPC Higher Education Statistics

Table 8.8. Number of Students and Lecturer in Bachelor Degree (4-Year) Faculties of Nursing by Education Terms, Turkey

Education Term	Number of Faculties	Number of Students			Number of Academic Staff Member
		Recently Enrolled	Still in Education	Graduates	
2002-2003	76	3.940	16.423	3.002	528
2007-2008	80	5.824	20.442	3.886	762
2008-2009	84	6.570	22.481	4.288	783
2009-2010	89	6.764	25.176	4.082	827
2010-2011	98	7.734	28.791	5.172	628
2011-2012	104	9.267	33.186	6.281	582
2012-2013	109	11.066	38.112	-	574

Source: SSPC Higher Education Statistics

Figure 8.31. Number of Students per Lecturer in Bachelor Degree (4-Year) Faculties of Nursing by Education Terms, Turkey



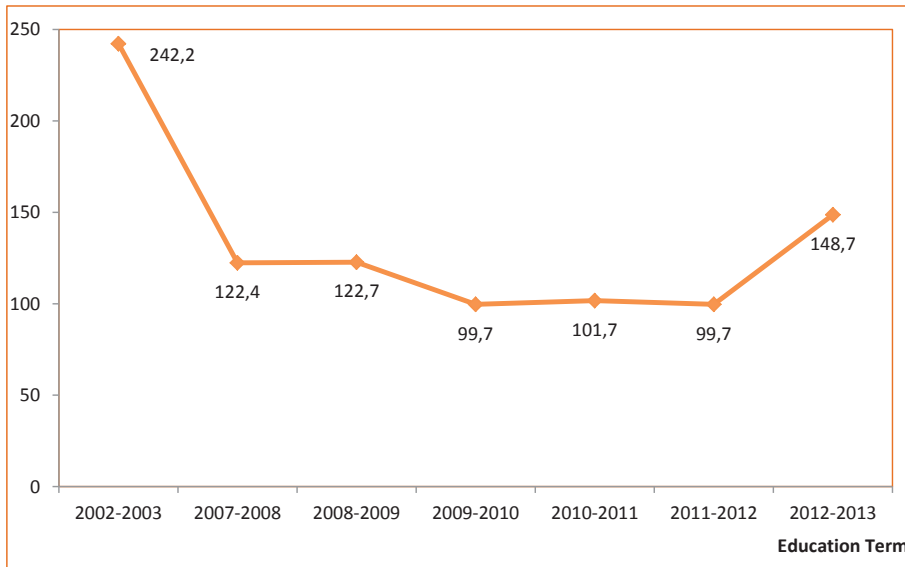
Source: SSPC Higher Education Statistics

Table 8.9. Number of Students and Lecturer in Bachelor Degree (4-Year) Faculties of Midwifery by Education Terms, Turkey

Education Term	Number of Faculties	Number of Students			Number of Academic Staff Member
		Recently Enrolled	Still in Education	Graduates	
2002-2003	27	1.270	5.087	842	21
2007-2008	32	1.488	5.997	1.331	49
2008-2009	33	1.873	6.382	1.254	52
2009-2010	33	1.898	6.977	1.307	70
2010-2011	33	1.889	7.627	1.393	75
2011-2012	34	1.926	8.072	1.842	81
2012-2013	34	2.100	8.328	-	56

Source: SSPC Higher Education Statistics

Figure 8.32. Number of Students per Lecturer in Bachelor Degree (4-Year) Faculties of Midwifery by Education Terms, Turkey



Source: SSPC Higher Education Statistics

Table 8.10. Number of Graduates of Vocational High Schools for Health by Education Terms and Departments, Turkey

Education Term	Nurses	Midwives	Health Officers	Environmental Health	Dental Care	Medical Secretary	Emergency Care
2002-2003	0	1	0	753	105	3.341	4.201
2007-2008	2.888	1.330	229	130	81	699	2.094
2008-2009	41	-	-	316	136	1.185	3.125
2009-2010	-	-	-	419	201	1.430	4.285
2010-2011	7.515	-	-	234	353	1.224	3.702
2011-2012	8.874	-	-	157	422	942	3.966
2012-2013	8.584	-	-	101	379	822	3.866

Source: General Directorate of Health Services

Table 8.11. Number of Medical Residents by Education Terms Years, Turkey

Education Term	Number of Entrance for Medical Residency	Number of Graduated Specialist Physicians
2002-2003	4.040	2.408
2007-2008	4.644	3.223
2008-2009	3.828	3.721
2009-2010	5.792	5.101
2010-2011	4.295	4.982
2011-2012	4.752	4.228
2012-2013	5.346	-

Source: SSPC Higher Education Statistics

Table 8.12. Some Health Indicators, by Provinces, Turkey, 2013

	Specialist Physicians	General Practitioners	Medical Residents	Physicians Total	Dentists	Pharmacists	Nurses	Midwives	Other Health Personnel
Adana	2.145	1.158	521	3.824	581	724	3.631	1.404	3.610
Adıyaman	255	306	18	579	66	133	899	461	1046
Afyonkarahisar	502	373	165	1.040	128	236	1.261	597	1.453
Ağrı	222	300	0	522	70	91	709	249	692
Amasya	188	191	0	379	89	122	729	355	776
Ankara	9.670	2.303	4.158	16.131	2.534	2.475	13.482	3.208	12.728
Antalya	2.457	1.277	512	4.246	900	1.081	3.825	1.686	4.380
Artvin	88	131	0	219	41	46	363	199	457
Aydın	977	635	229	1.841	295	465	1.871	974	1.882
Balıkesir	839	639	35	1.513	320	464	2.135	1.345	2.043
Bilecik	119	109	0	228	51	61	351	175	408
Bingöl	117	171	0	288	30	50	531	251	569
Bitlis	153	191	0	344	44	52	510	194	580
Bolu	348	155	145	648	84	114	711	262	704
Burdur	142	189	0	331	73	116	549	401	651
Bursa	2.417	1.300	504	4.221	757	917	5.089	1.872	3.964
Çanakkale	468	260	122	850	170	186	1.108	622	992
Çankırı	105	109	0	214	49	59	357	161	556
Çorum	317	336	1	654	114	167	992	486	1.276
Denizli	928	518	295	1.741	307	425	1.899	1.058	1.769
Diyarbakır	1.295	764	349	2.408	242	364	3.202	893	2.641
Edirne	501	227	278	1.006	108	163	1.032	445	916
Elazığ	619	349	248	1.216	119	175	1.388	550	1.339
Erzincan	121	158	15	294	51	59	487	209	560
Erzurum	757	463	378	1.598	116	196	1.857	576	1.613
Eskişehir	976	445	252	1.673	235	369	2.214	745	1.998
Gaziantep	1.397	875	341	2.613	291	522	2.654	920	2.394
Giresun	298	258	0	556	80	149	957	537	1.196
Gümüşhane	67	88	0	155	37	34	278	110	349
Hakkari	115	120	0	235	38	34	339	95	369
Hatay	986	754	146	1.886	349	490	2.066	831	2.307
Isparta	570	259	257	1.086	123	190	1.277	622	1.258
Mersin	1.316	864	203	2.383	450	631	2.607	1.541	2.764
İstanbul	15.898	4.804	5.392	26.094	5.823	5.234	20.620	5.477	13.578
İzmir	5.688	2.149	1.907	9.744	1.549	1.874	8.491	2.713	7.562
Kars	224	148	54	426	52	60	458	320	526
Kastamonu	203	233	0	436	102	126	747	291	1007
Kayseri	1.290	674	528	2.492	286	480	2.820	1002	3.167
Kırklareli	240	205	0	445	109	140	519	327	639
Kırşehir	143	133	0	276	45	83	428	262	688
Kocaeli	1.584	787	358	2.729	463	475	3.090	1.134	2.679
Konya	1.864	1.080	807	3.751	457	772	3.958	1.479	4.195
Kütahya	302	296	22	620	113	177	1.069	490	1.130
Malatya	770	412	291	1.473	160	241	1.932	826	1.946

Source: General Directorate of Health Services, General Directorate of Management Services

Table 8.12. Some Health Indicators, by Provinces, Turkey, 2013- Continued

	Specialist Physicians	General Practitioners	Medical Residents	Physicians Total	Dentists	Pharmacists	Nurses	Midwives	Other Health Personnel
Manisa	1.178	808	212	2.198	309	492	2.478	1.153	2.300
Kahramanmaraş	637	550	132	1.319	176	275	1.621	767	1.870
Mardin	301	380	0	681	105	155	859	367	961
Muğla	726	581	18	1.325	307	467	1.561	913	1.785
Muş	160	232	0	392	40	47	559	198	526
Nevşehir	178	172	0	350	63	109	490	246	775
Niğde	175	186	0	361	66	108	515	324	757
Ordu	498	415	19	932	137	254	1.406	694	1.569
Rize	198	204	76	478	77	113	775	316	639
Sakarya	544	477	110	1.131	214	283	1.153	671	1.495
Samsun	1.404	667	504	2.575	471	454	2.815	1.041	2.822
Siirt	165	186	0	351	46	70	455	140	566
Sinop	117	117	0	234	52	76	434	200	554
Sivas	561	399	247	1.207	135	186	1.249	562	1.380
Tekirdağ	686	485	56	1.227	244	287	1.229	595	1.352
Tokat	432	322	121	875	107	187	1.219	573	1.497
Trabzon	873	418	442	1.733	265	311	2.396	719	2.258
Tunceli	54	64	0	118	22	18	177	150	271
Şanlıurfa	1041	999	135	2.175	183	371	1.792	646	1.896
Uşak	236	192	0	428	87	123	680	533	753
Van	627	598	216	1.441	132	153	1.577	457	1.370
Yozgat	291	311	25	627	69	119	857	447	1044
Zonguldak	589	346	158	1.093	126	190	1.279	483	1033
Aksaray	203	199	0	402	73	136	590	292	738
Bayburt	56	57	0	113	16	17	149	73	211
Karaman	151	141	0	292	58	106	475	208	520
Kırıkkale	321	158	167	646	61	108	673	271	957
Batman	299	290	0	589	57	126	783	254	811
Şırnak	191	295	0	486	54	62	521	192	581
Bartın	104	125	0	229	40	65	342	163	390
Ardahan	72	72	0	144	23	20	193	87	250
Iğdır	88	87	0	175	30	32	281	144	263
Yalova	179	123	0	302	78	82	351	156	454
Karabük	173	143	0	316	63	91	484	237	562
Kilis	84	113	0	197	32	37	171	121	252
Osmaniye	316	300	0	616	105	161	847	462	1.093
Düzce	297	164	148	609	71	99	616	217	576
Turkey	73.886	38.572	21.317	133.775	22.295	27.012	139.544	53.427	134.488

Source: General Directorate of Health Services, General Directorate of Management Services

Explanations for Chapter 8

☑ The numbers of the health personnel working in the institutions and organizations affiliated to the Ministry of National Defence are not included in the numbers of personnel before 2012.

☑ Healthcare Professionals working in the following branches were included in the category of "Other" Healthcare Professionals: Surgery Technician, Anesthesia Technician, Biologist, Environmental Health Technician, Child Development Specialist, Dental Technician, Dental Technician, Dietitian, Physical Therapy Technician, Physiotherapist, Emergency and First Aid Technician, First and Emergency Care Repairman, Heart-Lung Pump Operation Technician, Laboratory Repairman, Laboratory Technician, Audiologist, Audiometric Repairman, Audiometric Technician, Orthopedic Technician, Pathological Anatomy Technician, Perfusion Pump Technician, Prosthetic Technician, Psychologist, Radiographer, Health Physicist, Health Officer of the War, Health Technician, Health Repairman, Cytopathologist, Social Worker, Medical Secretary, Medical Technologist, Public Health Technician.

**Repairmen: Person who graduated from Vocational High School*

**Technician: Person who graduated from High School*

☑ The numbers of the SSI staff in years 2002 were included in the number of the Ministry of Health staff.

☑ "Other Institutions" which are indicated in the distribution of the Ministry of Health personnel: include 112 Emergency Care Center, Tuberculosis Dispensary, Cancer Early Diagnosis and Screening Center, Public Health Laboratory, MCHFP Center, Oral and Dental Health Center personnel.

☑ In the table where the Medical Faculty Statistics are given: Ataturk University, Gazi, Hacettepe and Istanbul Universities offer medical education both in English and in Turkish in different departments and they are not listed separately. The number of faculty members from other departments are not included.

☑ Faculty professors, associate professors, and assistant professors are included in the number of the faculty.

☑ Professors, associate professors, assistant professors, lecturers, experts, research assistants, instructor, translators and educational planners were included in the number of the teaching staff in Higher Education Institutions for Nurses and Midwifery training schools providing education at the undergraduate level.

☑ As data updated by Student Selection and Placement Center the tables and graphs which contain, number of Faculty, Lecturer, and Students may differ from our previous publications. Academic Year 2012-2013 numbers of graduates are not disclosed yet.



Chapter 9

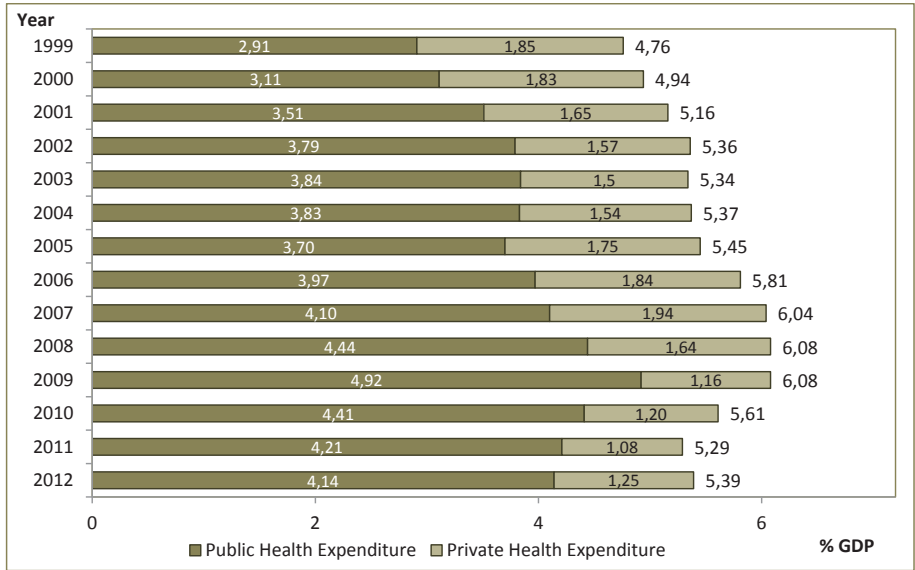
Health Economics and Financing

Table 9.1. Current, Investment, Total Health Expenditure, Turkey

Years	Unit	GDP	Current Health Expenditure	Proportion of the Current Health Expenditure to the GDP (%)	Investment Expenditure	Proportion of Investment Expenditure to the GDP (%)	Total Health Expenditure (Current + Investment)	Proportion of Total Health Expenditure to the GDP (%)
1999	Million ₺	104.596	4.786		199		4.985	
	Million USD	261.489	11.965	4,6	497,5	0,2	12.463	4,8
	Million PPP USD	522.980	23.930		995		24.925	
2000	Million ₺	166.658	7.888		360		8.248	
	Million USD	277.763	13.147	4,7	600	0,2	13.747	4,9
	Million PPP USD	555.527	26.293		1.200		27.493	
2001	Million ₺	240.224	12.086		310		12.396	
	Million USD	200.187	10.072	5	258	0,1	10.330	5,2
	Million PPP USD	600.560	30.215		775		30.990	
2002	Million ₺	350.476	18.331		443		18.774	
	Million USD	233.651	12.221	5,2	295	0,1	12.516	5,4
	Million PPP USD	584.127	30.552		738		31.290	
2003	Million ₺	454.781	23.676		603		24.279	
	Million USD	303.187	15.784	5,2	402	0,1	16.186	5,3
	Million PPP USD	568.476	29.595		754		30.349	
2004	Million ₺	559.033	28.616		1.405		30.021	
	Million USD	399.309	20.440	5,1	1.004	0,3	21.444	5,4
	Million PPP USD	698.791	35.770		1.756		37.526	
2005	Million ₺	648.932	33.292		2.067		35.359	
	Million USD	499.178	25.609	5,1	1.590	0,3	27.199	5,4
	Million PPP USD	811.165	41.615		2.584		44.199	
2006	Million ₺	758.391	40.949		3.120		44.069	
	Million USD	541.708	29.249	5,4	2.229	0,4	31.478	5,8
	Million PPP USD	947.988	51.186		3.900		55.086	
2007	Million ₺	843.178	46.495		4.409		50.904	
	Million USD	648.599	35.765	5,5	3.392	0,5	39.157	6,0
	Million PPP USD	936.865	51.661		4.899		56.560	
2008	Million ₺	950.534	52.320		5.420		57.740	
	Million USD	731.180	40.246	5,5	4.169	0,6	44.415	6,1
	Million PPP USD	1.056.149	58.133		6.022		64.156	
2009	Million ₺	952.559	55.294		2.616		57.911	
	Million USD	635.039	36.863	5,8	1.744	0,3	38.607	6,1
	Million PPP USD	1.035.390	60.102		2.843		62.947	
2010	Million ₺	1.098.799	58.623		3.054		61.678	
	Million USD	732.533	39.082	5,3	2.036	0,3	41.119	5,6
	Million PPP USD	1.156.631	61.708		3.215		64.924	
2011	Million ₺	1.297.713	65.372		3.236		68.607	
	Million USD	763.361	38.454	5,0	1.904	0,3	40.357	5,3
	Million PPP USD	1.259.916	63.468		3.142		66.609	
2012	Million ₺	1.415.786	72.820		3.538		76.358	
	Million USD	786.548	40.456	5,1	1.966	0,3	42.421	5,4
	Million PPP USD	1.361.333	70.019		3.402		73.421	

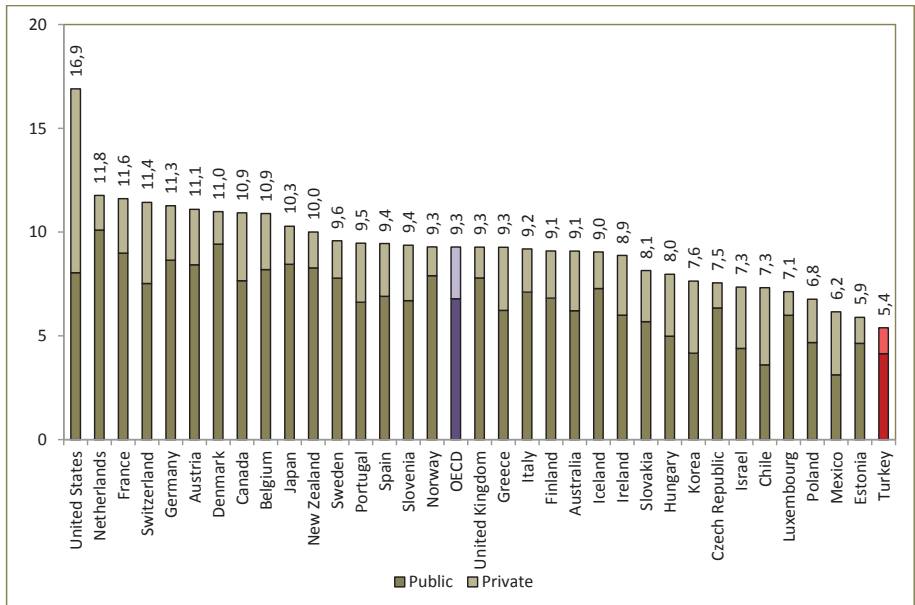
Source: TURKSTAT

Figure 9.1. Public and Private Health Expenditure as a Share of GDP by Years, (%), Turkey



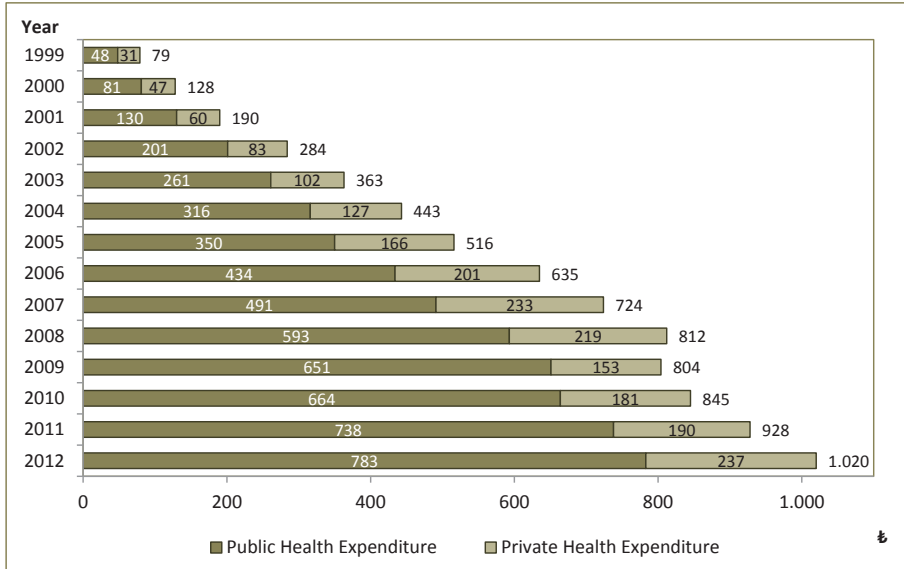
Source: TURKSTAT

Figure 9.2. Health Expenditure as a Share of GDP in the OECD Countries, (%), 2012



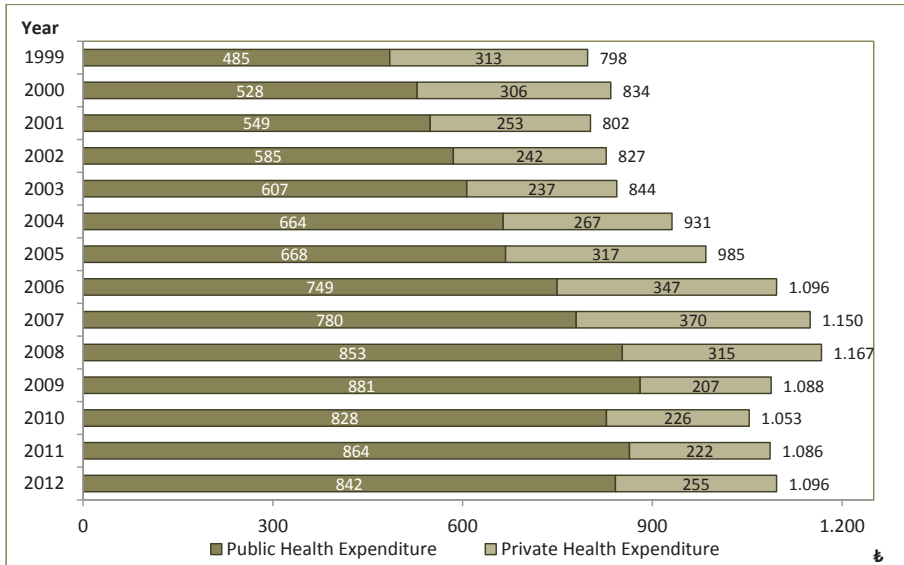
Source: OECD Health Data 2014, TURKSTAT

Figure 9.3. Public and Private Health Expenditure per Capita by Years, Nominal, in ₺, Turkey



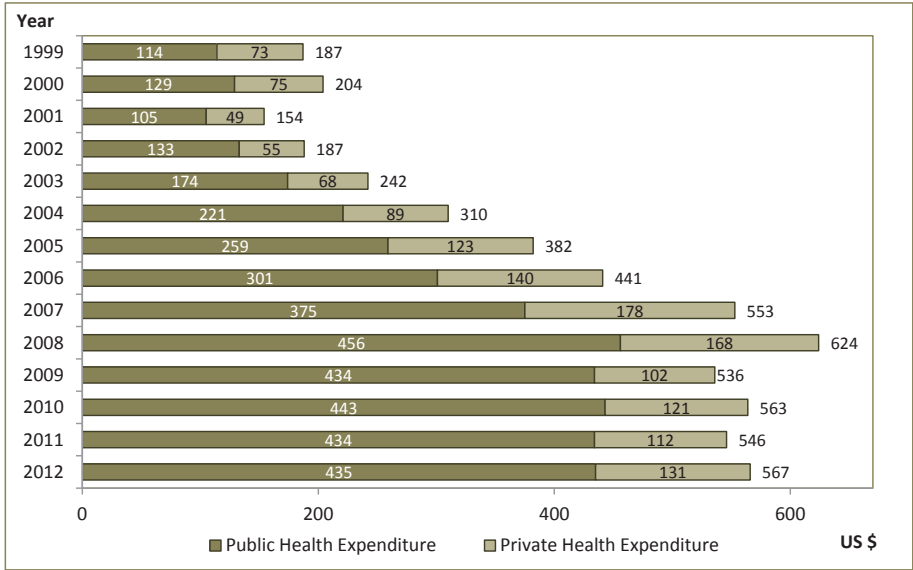
Source: TURKSTAT

Figure 9.4. Public and Private Health Expenditure per Capita at 2013 Price Level by Years, in ₺, Turkey



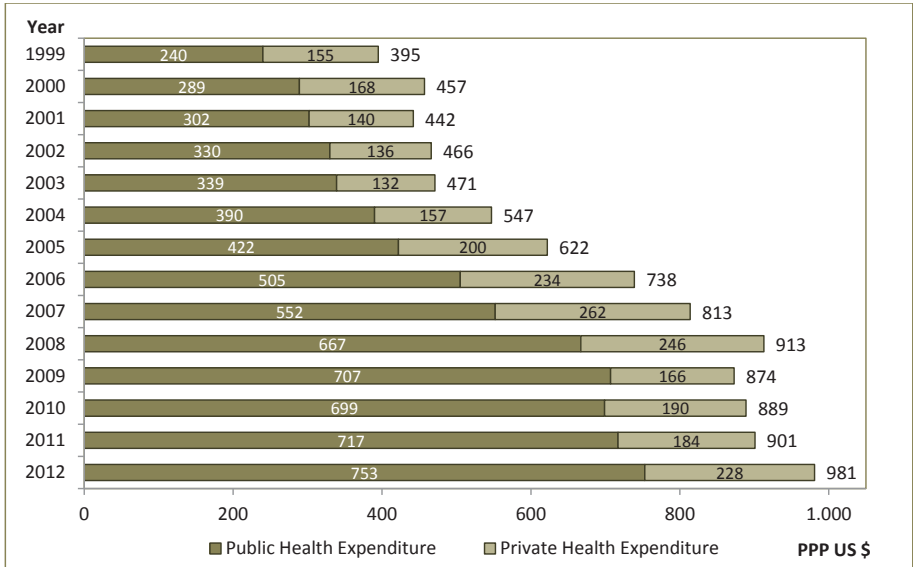
Source: TURKSTAT

Figure 9.5. Public and Private Health Expenditure per Capita by Years, in US \$, Turkey



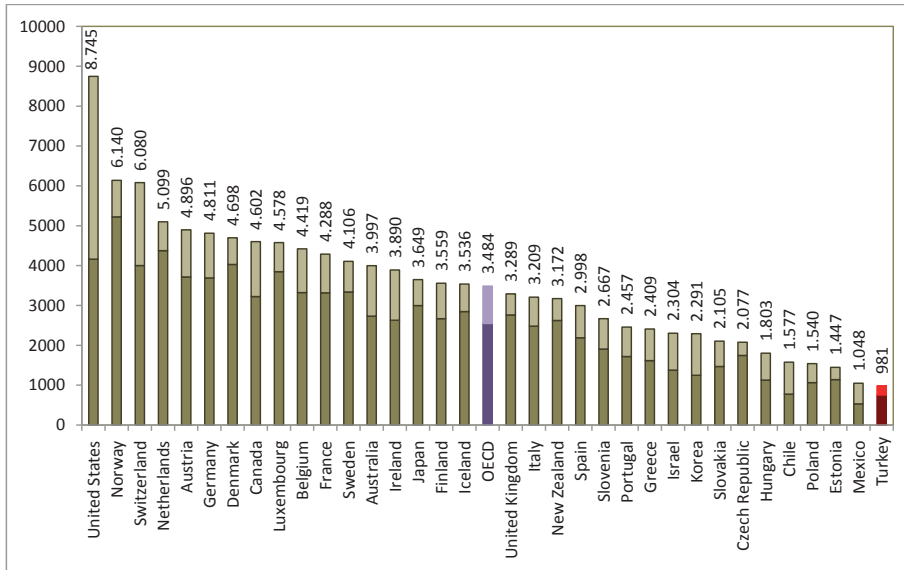
Source: TURKSTAT

Figure 9.6. Public and Private Health Expenditure per Capita by Years, PPP, in US \$, Turkey



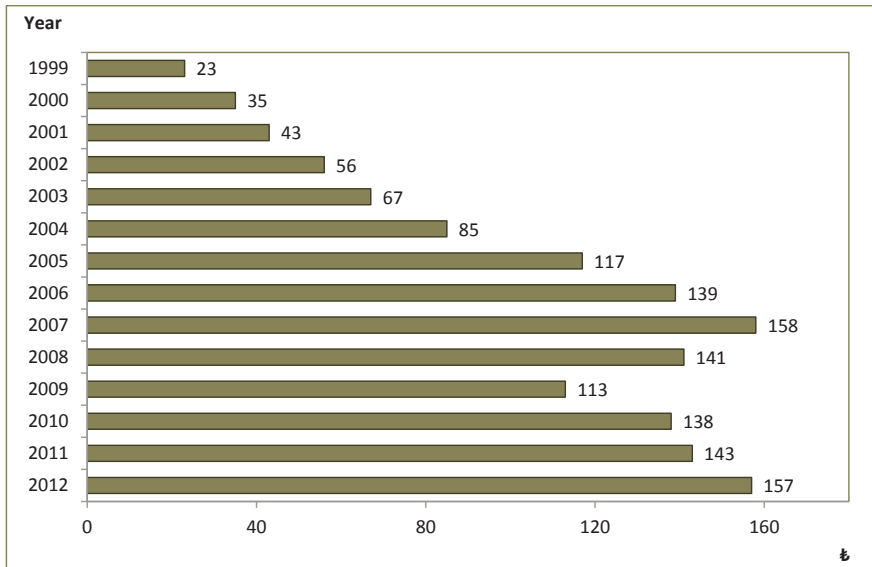
Source: TURKSTAT

Figure 9.7. Public and Private Health Expenditure per Capita in OECD Countries, PPP US \$, 2012



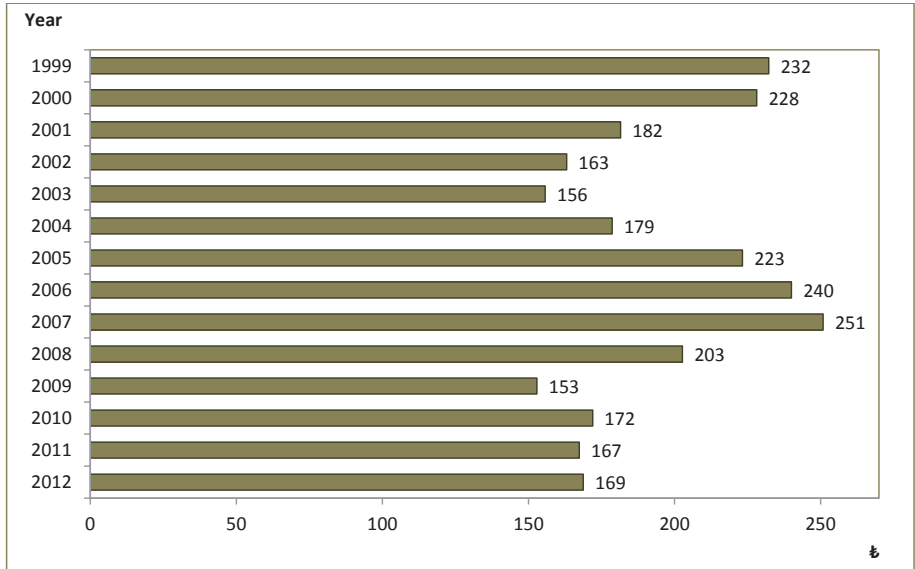
Source: OECD Health Data 2014, TURKSTAT

Figure 9.8. Out-of-Pocket Health Expenditure per Capita by Years, Nominal, in ₺, Turkey



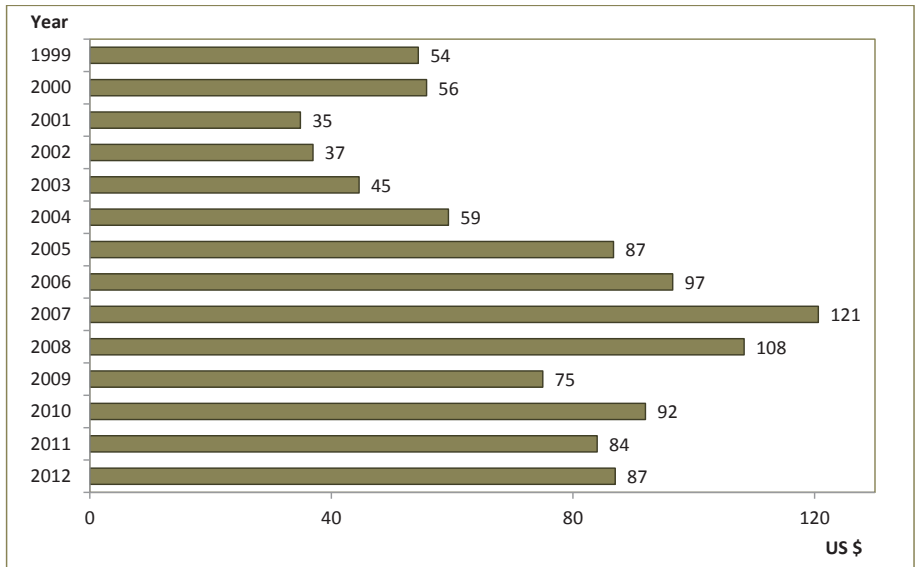
Source: TURKSTAT

Figure 9.9. Out-of-Pocket Health Expenditure per Capita at 2013 Price Level, in ₺, Turkey



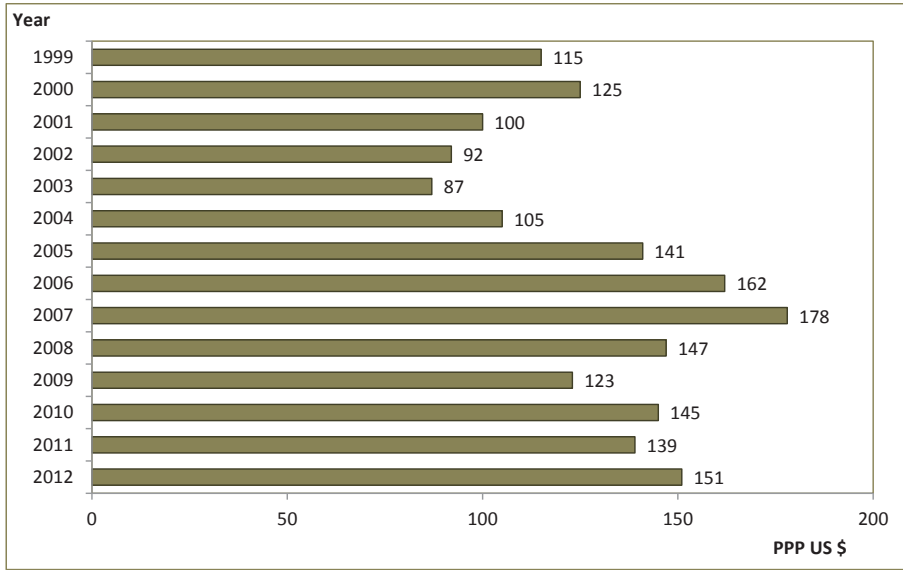
Source: TURKSTAT

Figure 9.10. Out-of-Pocket Expenditure per Capita by Years, in US \$, Turkey



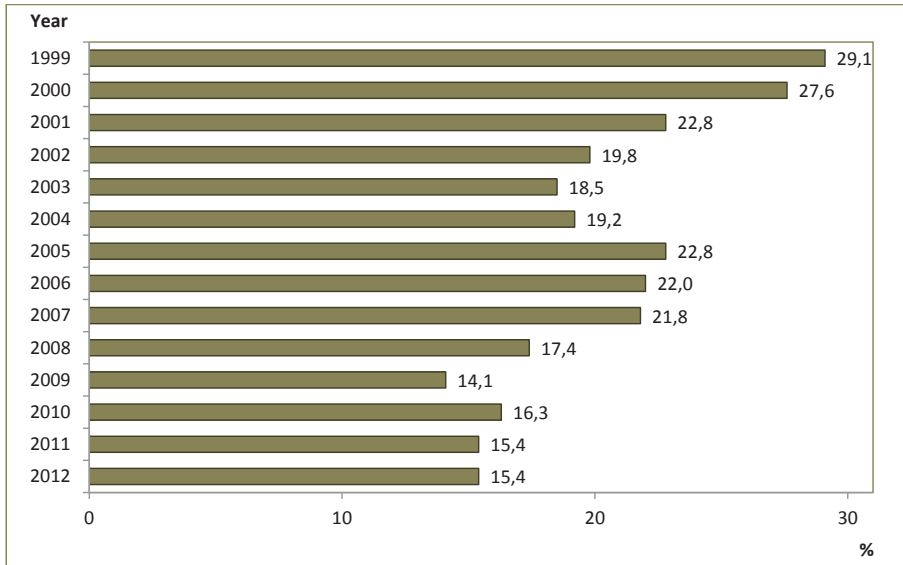
Source: TURKSTAT

Figure 9.11. Out-of-Pocket Expenditure per Capita by Years, PPP US \$, Turkey



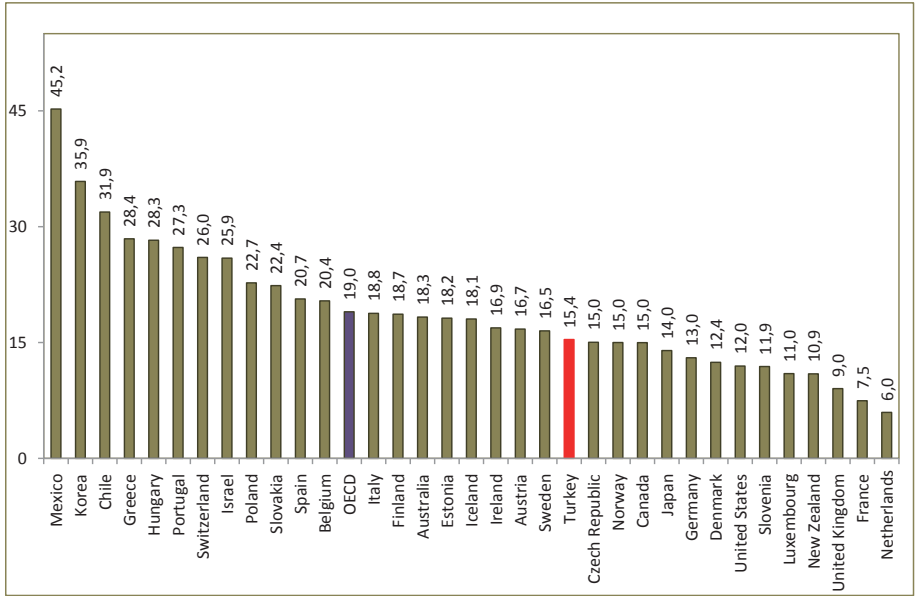
Source: TURKSTAT

Figure 9.12. Out-of-Pocket Expenditure as a Share of Total Health Expenditure by Years, (%), Turkey



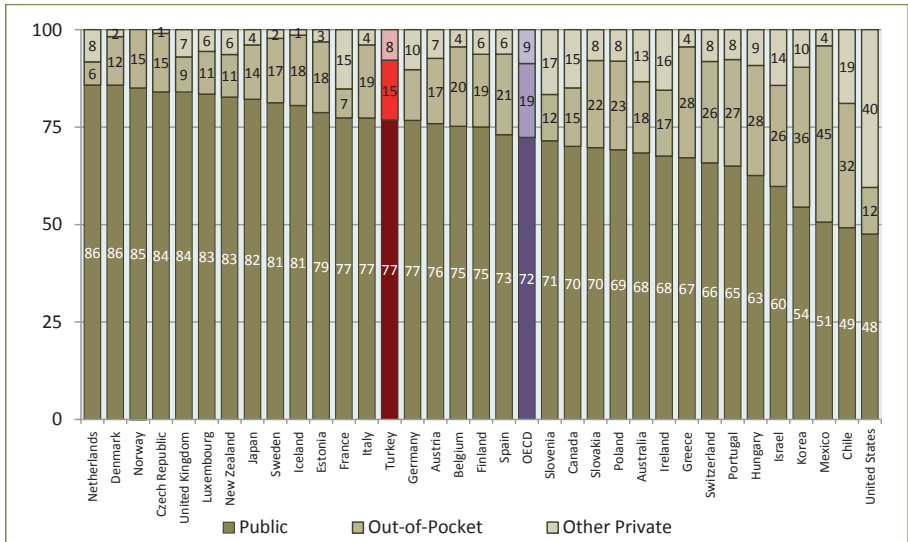
Source: TURKSTAT

Figure 9.13. Out-of-Pocket Expenditure as a Share of Total Health Expenditures in OECD Countries, 2012



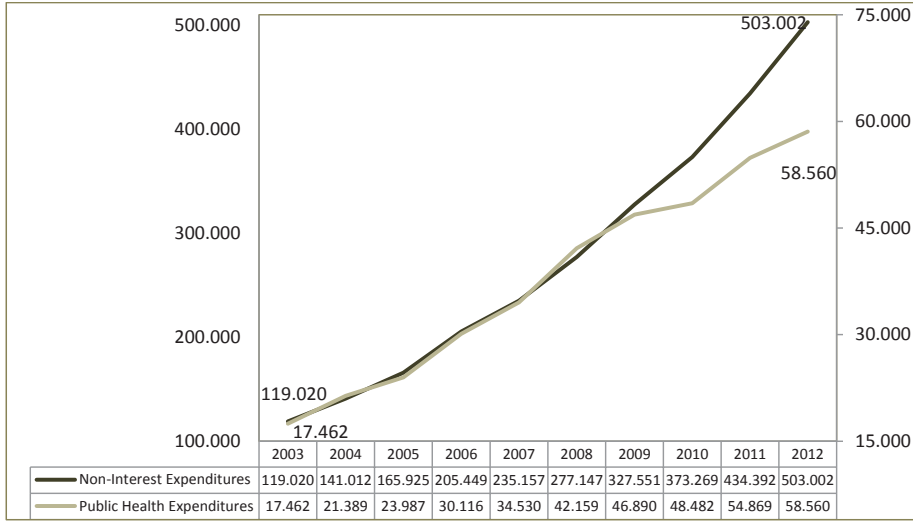
Source: OECD Health Data 2014, TURKSTAT

Figure 9.14. Health Expenditure by Financing Type in the OECD Countries, 2012



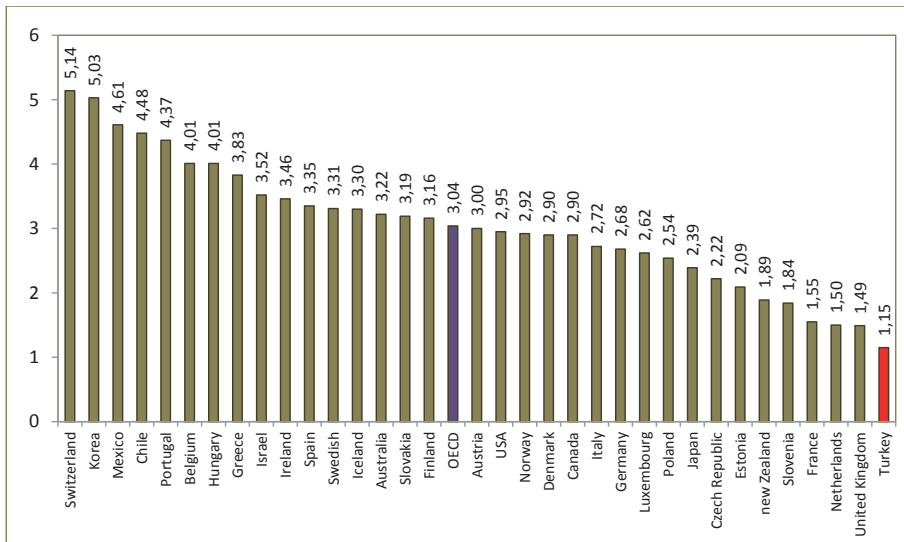
Source: OECD Health Data 2014, TURKSTAT

Figure 9.15. Non-Interest Expenditures and Public Health Expenditures by Years, in Million ₺, Turkey



Source: Public Health Expenditures; 2003-2012 TURKSTAT, Non-Interest Expenditures; Ministry of Finance; Ministry of Development

Figure 9.16. International Comparison of Ratio of Out-of-Pocket Health Expenditure in Household Final Consumption Expenditure, 2011



Source: OECD Health Data 2013

Note: Turkey's data belongs to 2012.

Explanations for Chapter 9

☑ Tables and graphs on health expenditures were made according to the OECD Health Accounts System. They were calculated by the Ministry of Health, General Directorate of Health Research in 1999-2000 and by the TURKSTAT in 2001-2012.

☑ While the expenditure figures were being converted into real figures, CPI 12-month average change rate released by the TURKSTAT was used.

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