



HEALTH STATISTICS YEARBOOK 2012





THE MINISTRY of HEALTH of TURKEY
HEALTH STATISTICS YEARBOOK
2012

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NOMENCLATURE of TERRITORIAL UNITS FOR STATISTICS and PROVINCES

Mediterranean	Antalya Burdur Isparta Adana İçel Hatay Kahramanmaraş Osmaniye	Aegean	İzmir Aydın Denizli Muğla Afyonkarahisar Kütahya Manisa Uşak
Western Anatolia	Ankara Karaman Konya	Southeastern Anatolia	Adıyaman Gaziantep Kilis
Western Blacksea	Bartın Karabük Zonguldak Çankırı Kastamonu Sinop Amasya Çorum Samsun Tokat		Diyarbakır Şanlıurfa Batman Mardin Siirt Şırnak
		Istanbul	İstanbul
		Northeastern Anatolia	Bayburt Erzincan Erzurum
Western Marmara	Edirne Kırklareli Tekirdağ Balıkesir Çanakkale		Ağrı Ardahan İğdır Kars
Eastern Blacksea	Artvin Giresun Gümüşhane Ordu Rize Trabzon	Mideastern Anatolia	Bingöl Elazığ Malatya Tunceli Bitlis Hakkâri
Eastern Marmara	Bilecik Bursa Eskişehir Bolu Düzce Kocaeli Sakarya Yalova	Central Anatolia	Muş Van Aksaray Kırıkkale Kırşehir Nevşehir Niğde Kayseri Sivas 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 aceluler Pertussis Tetanus Vaccination
ECO	: Echocardiography
ESPC	: Evulation Selection and Placement Center
EU	: European Union
EUROSTAT	: Oficce 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 Traning Centers
Kg	: Kilogram
MMR	: Measles Mumps Rubella Vaccination
MoND	: Ministry of National Defence
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
SII	: Social Insurance Institution
SSI	: Social Insurance Institution
TDHS	: Turkey Demographic and Health Survey
₺	: Turkish Lira
TURKSTAT	: Turkish Statistical Institute
WHO	: World Health Organization

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Chapter 9. Health Economics and Financing

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General Explanations

While the values of the indicators in the Health Statistics Yearbook 2012 were calculated, international definitions and standards has been used and they were revised in accordance with these definitions and standards.

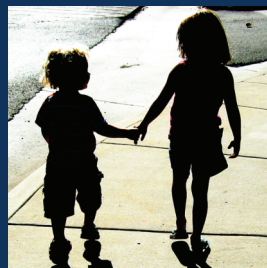
You can find information in detail in the fact sheet at the end of the chapters.

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

1. Online data base of the World Health Organization Headquarters in Geneva, “Global Health Observatory” (<http://www.who.int/gho/en/>), which contains data on 194 countries. Unlike theThe WHO European Region Office of the database (Health for All-HFA, <http://data.euro.who.int/hfad/b/>) 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 the data belonging to the 2 years prior to the publication. The data for countries specified in the “World Health Statistics 2013” report belong to 2011 or the latest available data for the countries included.
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 the data in the 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. The data for countries specified in the “OECD Health Data 2013” belong to 2011 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;

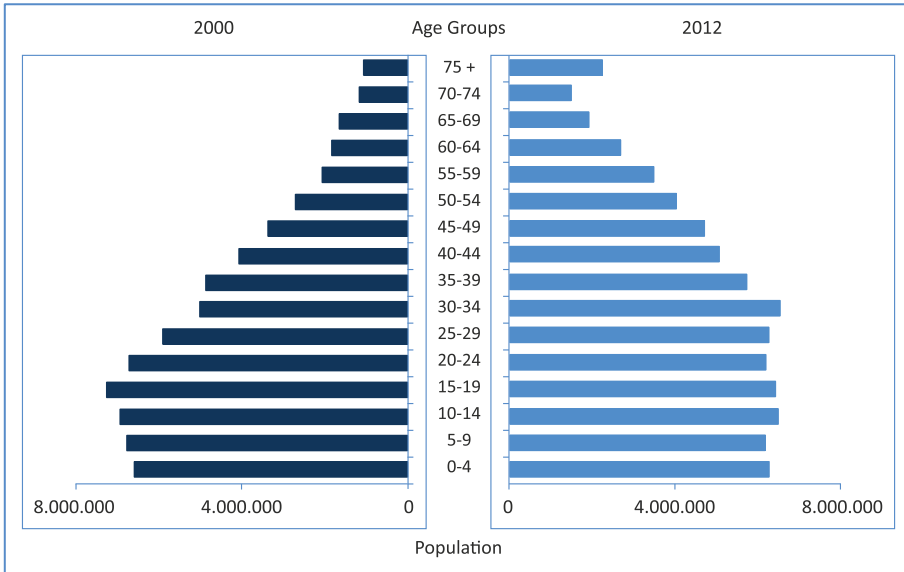
- 1. WHO/Europe:** Germany, Andorra, Albania, Austria, Azerbaijan, Belarus, Belgium, United Kingdom, Bosnia and Herzegovina, Bulgaria, Czech Republic, Denmark, Armenia, Estonia, Finland, France, Cyprus, Georgia, Croatia, Netherlands, Ireland, Spain, Israel, Sweden, Switzerland, Italy, Iceland, Montenegro, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Hungary, Macedonia, Malta, Moldova, Monaco, Norway, Uzbekistan, Poland, Portugal, Romania, Russia, San Marino, Serbia, Slovakia, Slovenia, Tajikistan, Turkey, Turkmenistan, Ukraine, Greece
- 2. Upper-Middle-Income Countries (Countries with GDP per capita between \$ 4 036 and \$ 12 475):** Angola, Antigua and Barbuda, Argentina, Azerbaijan, Belarus, Bosnia and Herzegovina, Botswana, Brazil, Bulgaria, Algeria, Cook Islands, China, Dominican Republic, Dominica, Ecuador, Gabon, Grenada, South Africa, Iran, Jamaica, Montenegro, Kazakhstan, Colombia, Costa Rica, Cuba, Latvia, Libya, Lithuania, Lebanon, Macedonia, Maldives, Malaysia, Mauritius, Mexico, Namibia, Nauru, Niue, Palau, Panama, Peru, Romania, Russia, Saint Lucia, Saint Vincent and the Grenadines, Serbia, Suriname, Seychelles, Chile, Thailand, Tunisia, Turkey, Tuvalu, Turkmenistan, Uruguay, Jordan, Venezuela
- 3. High-Income Countries (Countries with GDP per capita above \$ 12 476):** Andorra, Australia, Austria, Bahamas, Bahrain, Barbados, Belgium, Brunei, Canada, Croatia, Cyprus, Czech Republic, Darussalam, Denmark, Equatorial Guinea, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Kuwait, Luxembourg, Malta, Monaco, Netherlands, New Zealand, Norway, Oman, Poland, Portugal, Qatar, Republic of Korea, San Marino, Saint Kitts and Nevis, Saudi Arabia, Singapore, Slovakia, Slovenia, Spain, Sweden, Switzerland, Trinidad & Tobago, United Arab Emirates, United Kingdom, United States of America,
- 4. European Union:** Germany, Austria, Belgium, United Kingdom, Bulgaria, the Czech Republic, Denmark, Estonia, Finland, France, Cyprus, the Netherlands, Ireland, Spain, Sweden, Italy, Latvia, Lithuania, Luxembourg, Hungary, Malta, Poland, Portugal, Romania, Slovakia, Slovenia, Greece.



Chapter 1

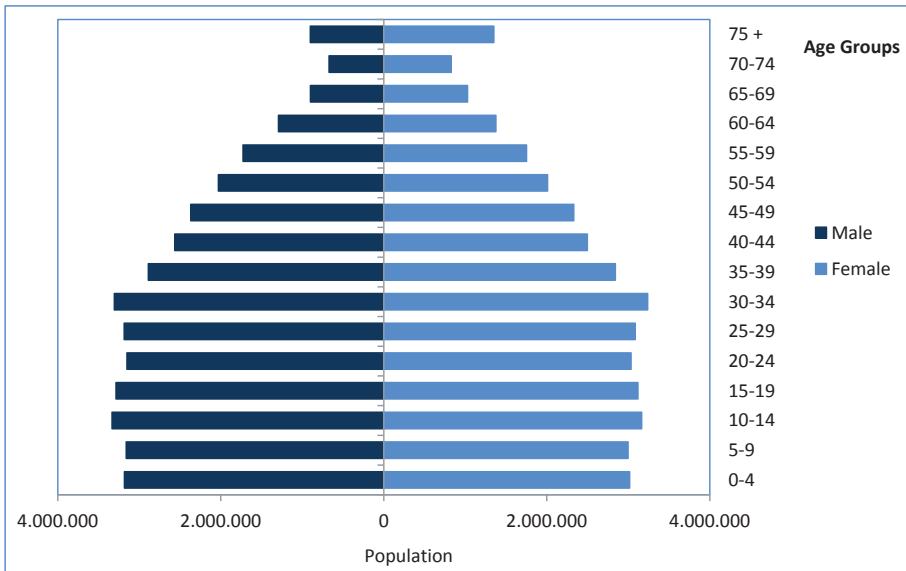
General Demographic Indicators

Figure 1.1. Population Pyramid, Total, Turkey, 2000, 2012



Source: TURKSTAT

Figure 1.2. Population Pyramid, 2012, Turkey



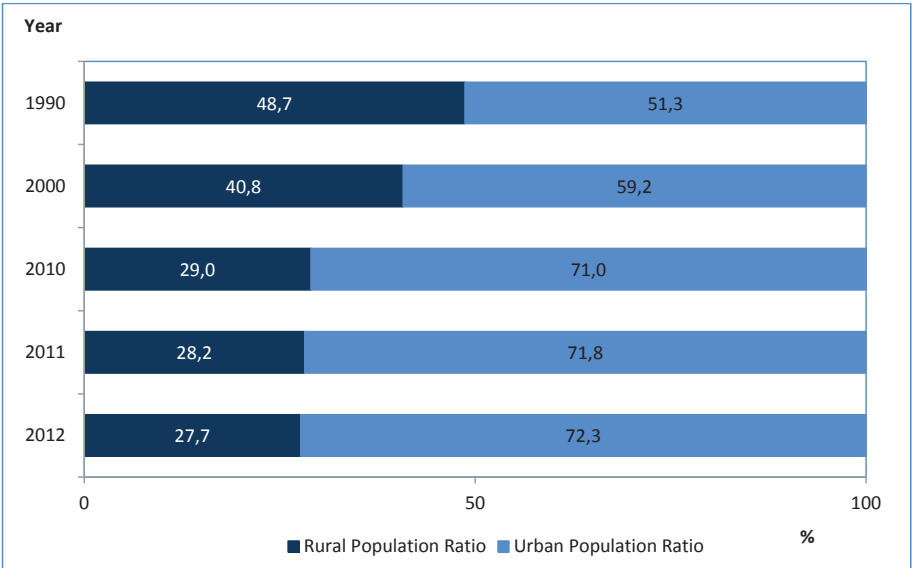
Source: TURKSTAT

Table 1.1. General Demographic Indicators, Turkey

	1990	2000	2010	2011	2012
Total Population	56.473.035	67.803.927	73.722.988	74.724.269	75.627.384
Rural Population Ratio (%)	48,7	40,8	29,0	28,2	27,7
Urban Population Ratio (%)	51,3	59,2	71,0	71,8	72,3
0-14 Aged Population Ratio (%)	35,0	29,8	25,6	25,3	24,9
65 and 65+ Aged Population Ratio (%)	4,3	5,7	7,2	7,3	7,5
Youth Dependency Ratio (Age 0-14)	57,6	46,3	38,1	37,5	36,9
Elderly Dependency Ratio (Aged 65 and Over)	7,0	8,8	10,8	10,9	11,1
Total Age Dependency Ratio	64,7	55,1	48,9	48,4	48,0
Annual Population Growth Rate (‰)	17,0	13,8	13,0	12,8	12,5
Crude Birth Rate (‰)	24,1	20,3	17,5	17,3	17,0
Crude Death Rate (‰)	7,1	6,6	6,3	6,3	6,3
Total Fertility Rate (per Woman)	2,9	2,4	2,1	2,1	2,1

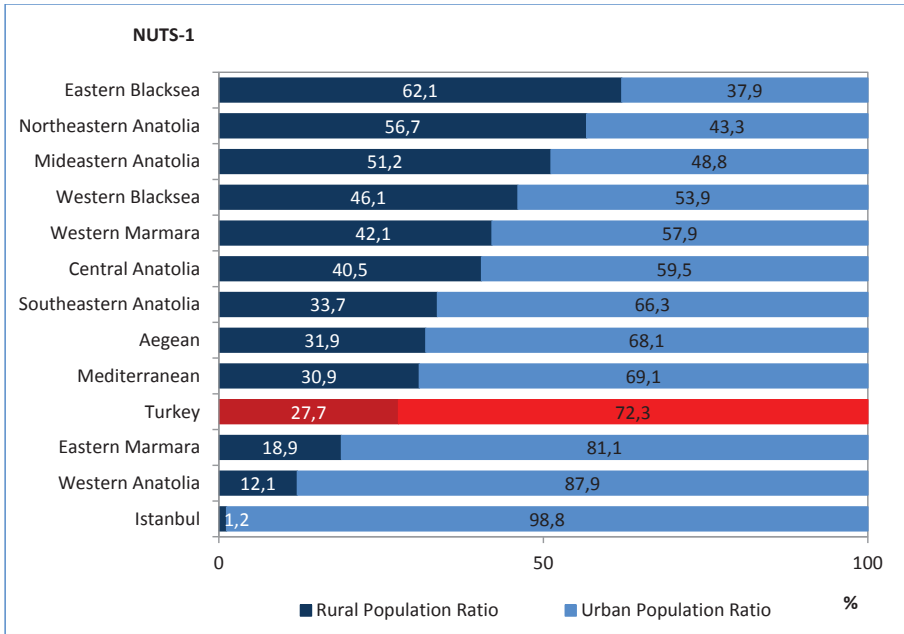
Source: TURKSTAT

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



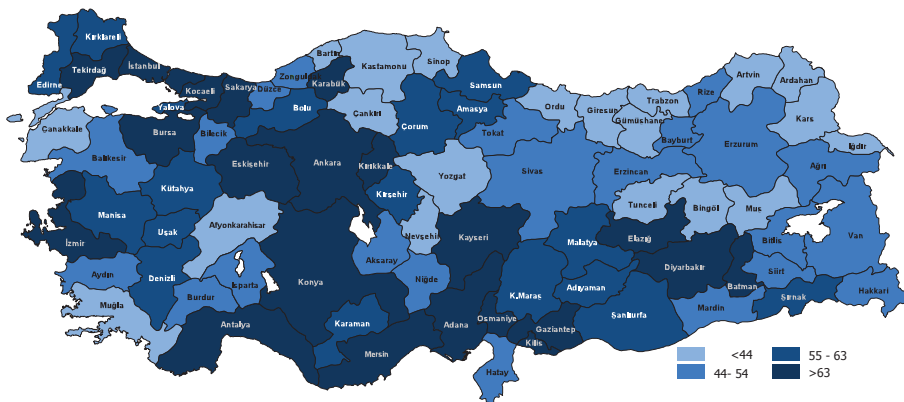
Source: TURKSTAT

Figure 1.4. Rural and Urban Population Ratios by NUTS-1, (%), 2012



Source: TURKSTAT

Map 1.1. Urban Population Ratios by Provinces, (%), 2012



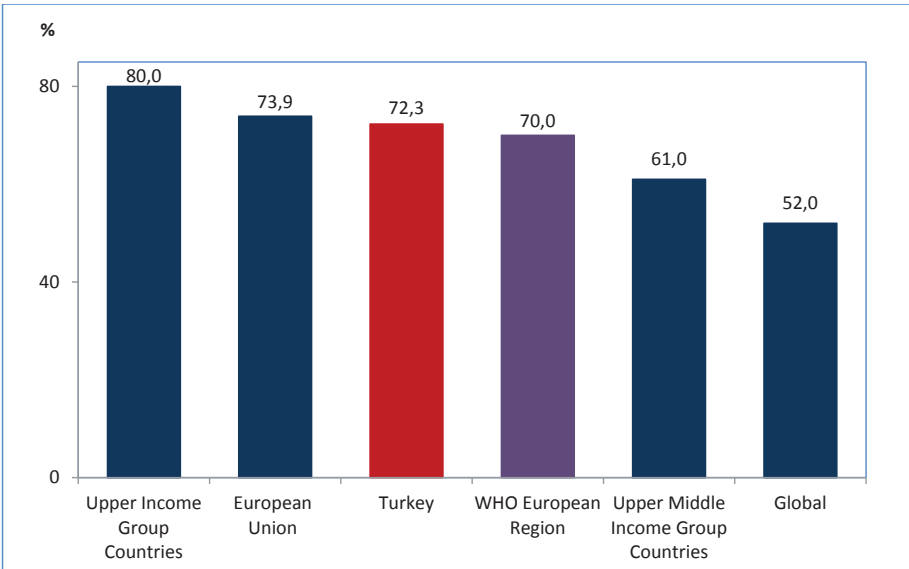
Source: TURKSTAT

Map 1.2. Rural Population Ratios by Provinces, (%), 2012



Source: TURKSTAT

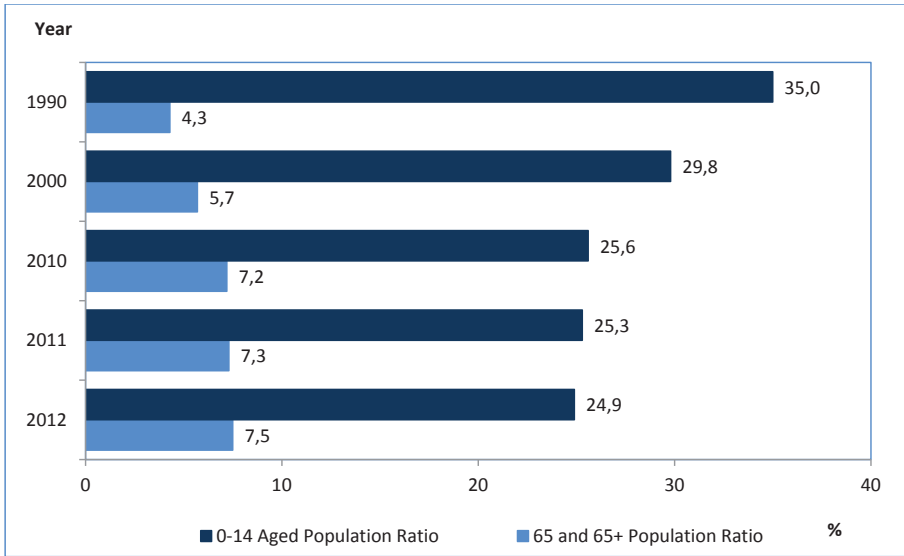
Figure 1.5. International Comparison of Urban Population Ratios, (%), 2011



Source: TURKSTAT, WHO World Health Statistics 2013

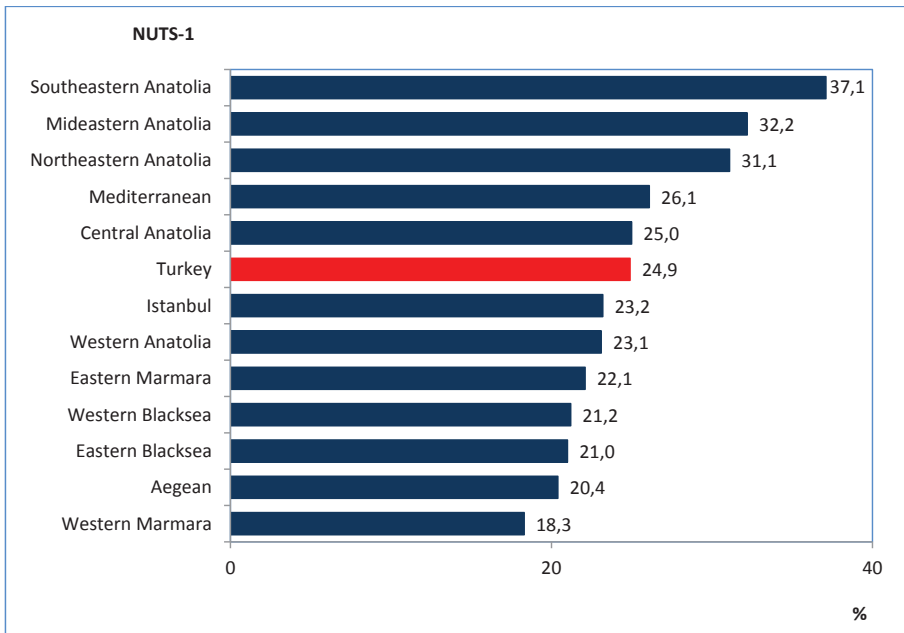
Note: Turkey's data belongs to 2012.

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



Source: TURKSTAT

Figure 1.7. 0-14 Aged, Population Ratios by NUTS-1, (%), 2012



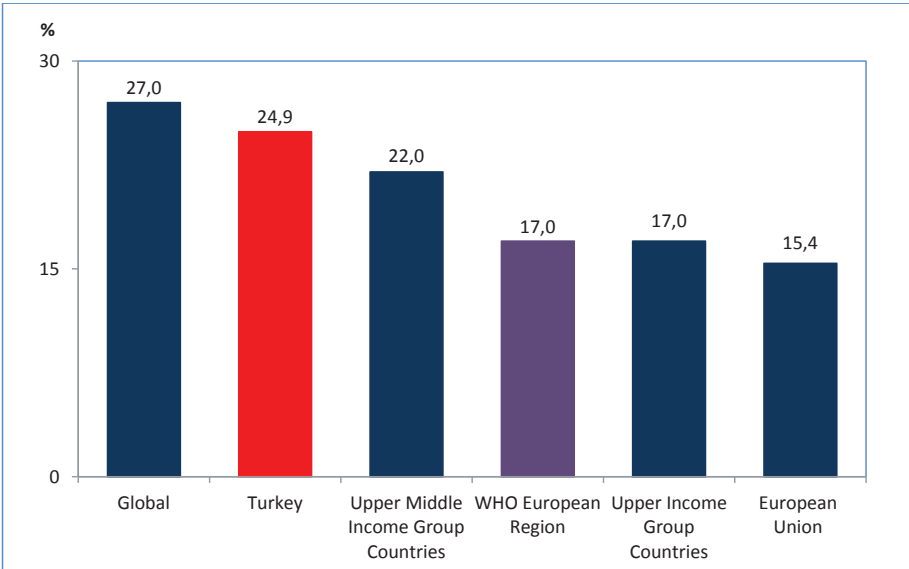
Source: TURKSTAT

Map 1.3. 0-14 Aged Population Ratios by Years, (%), 2012



Source: TURKSTAT

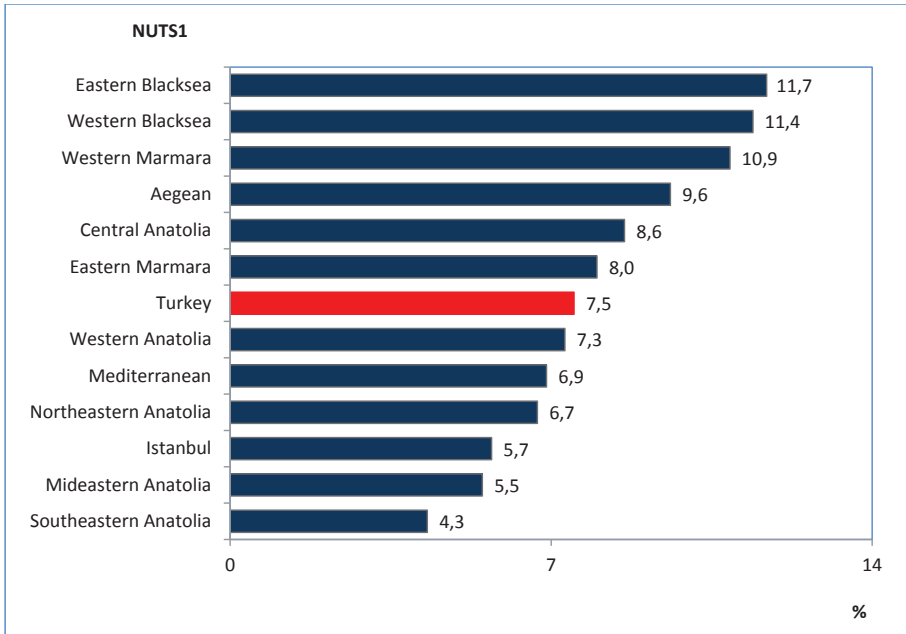
Figure 1.8. 0-14 Aged Population Ratios International Comparison, (%), 2011



Source: TURKSTAT, WHO World Health Statistics 2013

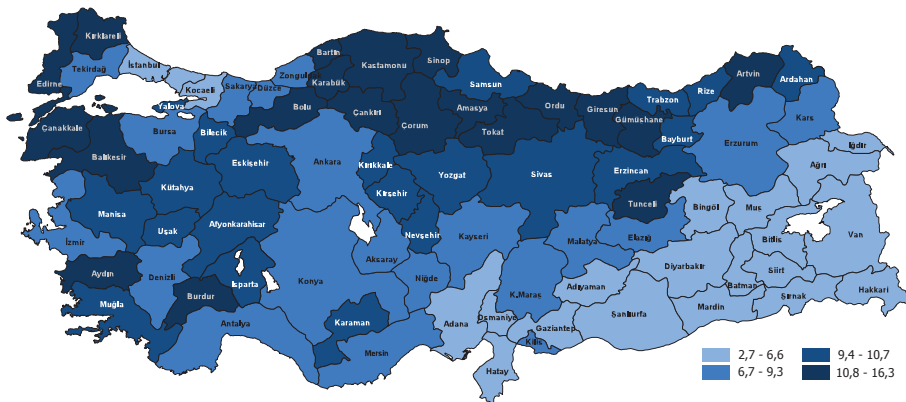
Note: Turkey's data belongs to 2012.

Figure 1.9. 65 and 65+ Aged Population Ratios by NUTS-1, (%), 2012



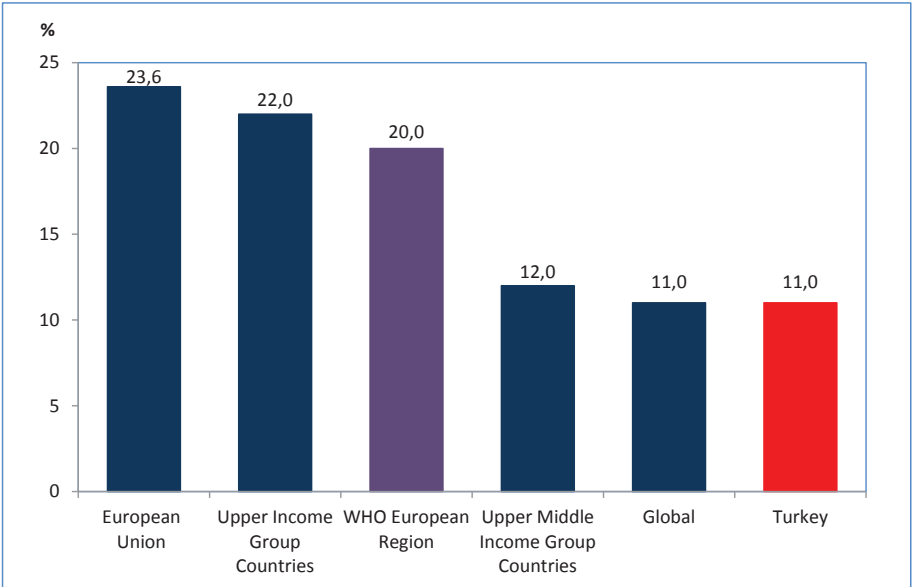
Source: TURKSTAT

Map 1.4. 65 and 65+ Aged Population Ratios by Provinces, (%), 2012



Source: TURKSTAT

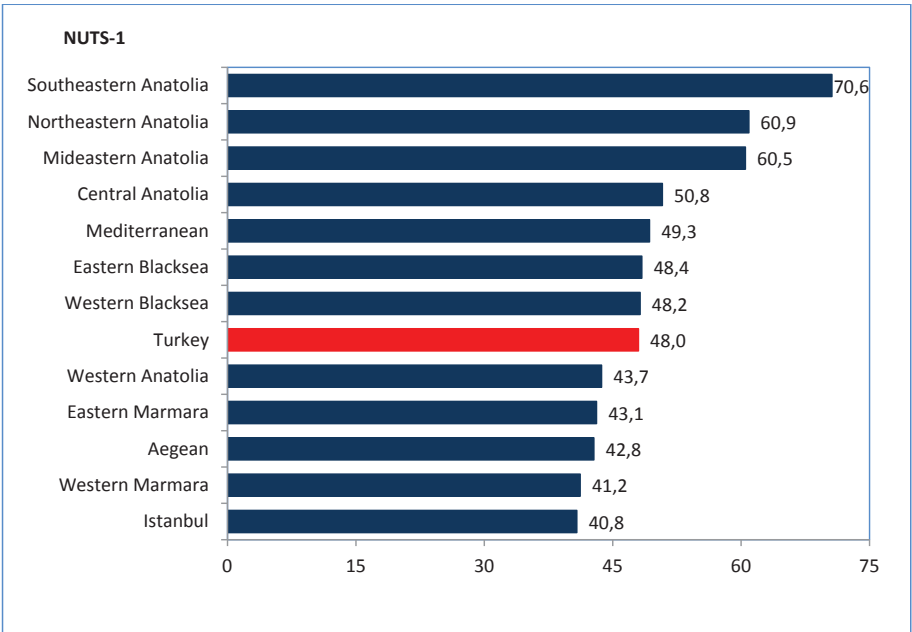
Figure 1.10. 60 and 60+ Aged Population Ratios International Comparison, (%), 2011



Source: TURKSTAT, WHO World Health Statistics 2013

Note: Turkey's data belongs to 2012.

Figure 1.11. Total Age Dependency Ratios by NUTS-1, (%), 2012



Source: TURKSTAT

Map 1. 5. Total Age Dependency Ratios by Provinces, (%), 2012



Source: TURKSTAT

Table 1.2. Some General Demographic Indicators by Provinces, 2012

City	Total Population	Rural Population Ratio (%)	Urban Population Ratio (%)	0-14 Aged Population Ratio (%)	65 and 65+ Aged Population Ratio (%)	Youth Dependency Ratio (Age 0-14)	Elderly Dependency Ratio (Aged 65 and Over)	Total Age Dependency Ratio
Adana	2.125.635	13,6	86,4	26,6	6,2	39,5	9,2	48,6
Adıyaman	595.261	42,6	57,4	30,8	6,3	48,9	10,0	58,9
Afyonkarahisar	703.948	60,8	39,2	23,9	9,5	35,8	14,2	50,0
Ağrı	552.404	52,1	47,9	39,6	3,7	69,8	6,5	76,3
Amasya	322.283	43,0	57,0	20,8	12,5	31,2	18,7	49,9
Ankara	4.965.542	3,9	96,1	21,8	7,1	30,7	9,9	40,6
Antalya	2.092.537	30,2	69,8	23,2	6,8	33,2	9,7	42,8
Artvin	167.082	84,6	15,4	18,7	13,9	27,8	20,6	48,4
Aydın	1.006.541	46,7	53,3	20,2	10,9	29,3	15,8	45,0
Balıkesir	1.160.731	47,1	52,9	18,0	12,5	25,9	17,9	43,8
Bilecik	204.116	45,7	54,3	19,6	10,4	28	14,9	42,9
Bingöl	262.507	62,5	37,5	29,5	5,7	45,6	8,7	54,3
Bitlis	337.253	53,8	46,2	37,1	4,1	62,9	6,9	69,9
Bolu	281.080	44,7	55,3	19,1	11,9	27,6	17,3	45,0
Burdur	254.341	55,5	44,5	19,2	13,2	28,3	19,5	47,8
Bursa	2.688.171	11,3	88,7	22,4	7,7	32	11,0	43,0
Çanakkale	493.691	57,3	42,7	16,4	12,7	23,2	18,0	41,2
Çankırı	184.406	59,8	40,2	19,8	14,2	30	21,6	51,6
Çorum	529.975	37,1	62,9	21,8	12,3	33,2	18,7	51,9
Denizli	950.557	44,7	55,3	21,6	9,2	31,3	13,3	44,6
Diyarbakır	1.592.167	33,0	67,0	35,7	4,2	59,4	6,9	66,3
Edirne	399.708	38,4	61,6	16,1	11,6	22,3	16,0	38,3
Elazığ	562.703	34,2	65,8	24,6	8,2	36,5	12,1	48,7
Erzincan	217.886	55,7	44,3	21,6	10,7	32	15,9	47,8
Erzurum	778.195	47,8	52,2	29,1	7,3	45,7	11,4	57,2
Eskişehir	789.750	16,4	83,6	18,3	9,8	25,4	13,6	39,1
Gaziantep	1.799.558	13,6	86,4	34,4	4,7	56,5	7,7	64,2
Giresun	419.555	66,6	33,4	19,4	13,9	29,1	20,9	49,9
Gümüşhane	135.216	76,0	24,0	21,6	11,5	32,2	17,1	49,3
Hakkari	279.982	47,2	52,8	34,3	2,7	54,3	4,2	58,5
Hatay	1.483.674	46,5	53,5	29,5	5,9	45,8	9,2	55,0
Isparta	416.663	52,4	47,6	20,1	10,7	29,1	15,5	44,6
Mersin	1.682.848	23,2	76,8	24,9	7,3	36,8	10,7	47,5
İstanbul	13.854.740	1,2	98,8	23,2	5,7	32,7	8,1	40,8
İzmir	4.005.459	9,8	90,2	19,5	9,1	27,3	12,7	40,0
Kars	304.821	74,4	25,6	30,7	6,8	49,2	10,9	60,1
Kastamonu	359.808	65,4	34,6	18,5	15,5	28,1	23,5	51,6
Kayseri	1.274.968	20,7	79,3	26,3	7,1	39,6	10,7	50,3
Kırklareli	341.218	40,8	59,2	16,5	11,5	22,9	16,0	38,9
Kırşehir	221.209	38,3	61,7	21,4	10	31,2	14,5	45,7
Kocaeli	1.634.691	7,5	92,5	24,1	6	34,5	8,6	43,1

Source: TURKSTAT

Table 1.2. Some General Demographic Indicators by Provinces, 2012- Continued

City	Total Population	Rural Population Ratio (%)	Urban Population Ratio (%)	0-14 Aged Population Ratio (%)	65 and 65+ Aged Population Ratio (%)	Youth Dependency Ratio (Age 0-14)	Elderly Dependency Ratio (Aged 65 and Over)	Total Age Dependency Ratio
Konya	2.052.281	28,8	71,2	26,1	7,7	39,4	11,7	51,1
Kütahya	573.421	41,3	58,7	19,0	10,7	27,1	15,2	42,3
Malatya	762.366	44,1	55,9	25,2	8,4	37,9	12,6	50,6
Manisa	1.346.162	38,2	61,8	21,3	9,6	30,9	13,8	44,7
Kahramanmaraş	1.063.174	42,6	57,4	30,7	6,7	48,9	10,6	59,6
Mardin	773.026	47,8	52,2	37,0	4,8	63,6	8,3	72,0
Muğla	851.145	59,3	40,7	19,8	10	28,3	14,3	42,6
Muş	413.260	69,1	30,9	39,1	3,9	68,4	6,8	75,2
Nevşehir	285.190	67,7	32,3	23,6	9,8	35,4	14,6	50,0
Niğde	340.270	53,4	46,6	26,8	8,5	41,5	13,1	54,6
Ordu	741.371	59,4	40,6	22,0	11,5	33,1	17,3	50,4
Rize	324.152	51,4	48,6	20,9	10,7	30,6	15,6	46,1
Sakarya	902.267	31,9	68,1	23,0	8,1	33,4	11,8	45,2
Samsun	1.251.722	37,6	62,4	22,6	9,5	33,2	13,9	47,2
Siirt	310.879	46,8	53,2	39,2	4,1	69,2	7,3	76,5
Sinop	201.311	67,6	32,4	19,1	16,3	29,5	25,3	54,8
Sivas	623.535	46,5	53,5	23,9	10,3	36,3	15,7	52,0
Tekirdağ	852.321	28,6	71,4	21,4	7,3	29,9	10,3	40,2
Tokat	613.990	47,3	52,7	23,0	10,8	34,8	16,3	51,1
Trabzon	757.898	59,5	40,5	21,3	10,5	31,2	15,4	46,6
Tunceli	86.276	63,5	36,5	14,5	11,4	19,6	15,4	35,0
Şanlıurfa	1.762.075	42,8	57,2	41,5	3,5	75,4	6,3	81,7
Uşak	342.269	45,1	54,9	20,6	10,5	29,9	15,3	45,2
Van	1.051.975	54,9	45,1	38,8	3,2	66,9	5,4	72,3
Yozgat	453.211	59,6	40,4	24,5	10	37,4	15,2	52,7
Zonguldak	606.527	47,0	53,0	20,3	9,2	28,8	13,0	41,7
Aksaray	379.915	50,9	49,1	27,3	7,2	41,7	11,1	52,8
Bayburt	75.797	52,6	47,4	23,8	9,9	35,9	14,9	50,8
Karaman	235.424	39,8	60,2	24,5	9,3	37	14,0	51,0
Kırkkale	274.727	29,9	70,1	21,4	9,6	31	13,9	45,0
Batman	534.205	30,5	69,5	38,7	3,8	67,4	6,6	74,0
Şırnak	466.982	40,3	59,7	42,0	2,9	76,1	5,3	81,4
Bartın	188.436	70,0	30,0	19,0	11,8	27,4	17,0	44,3
Ardahan	106.643	100,0	0,0	24,7	10,4	38,1	16,1	54,2
Iğdır	190.409	56,6	43,4	32,9	5,3	53,3	8,5	61,9
Yalova	211.799	41,1	58,9	20,3	10,2	29,1	14,6	43,8
Karabük	225.145	31,8	68,2	18,3	11,6	26,2	16,6	42,7
Kilis	124.320	31,5	68,5	30,8	7,7	50,1	12,6	62,7
Osmaniye	492.135	31,7	68,3	28,7	6,4	44,3	9,9	54,3
Düzce	346.493	54,1	45,9	22,9	8,4	33,3	12,3	45,6
Turkey	75.627.384	27,7	72,3	24,9	7,5	36,9	11,1	48,0

Source: TURKSTAT

Explanations for Chapter 1

Population data for 1990 and 2000 were taken from the “General Census” results, and the 2010, 2011 and 2012 population data from the Address Based Population Registration System (ABPRS)

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

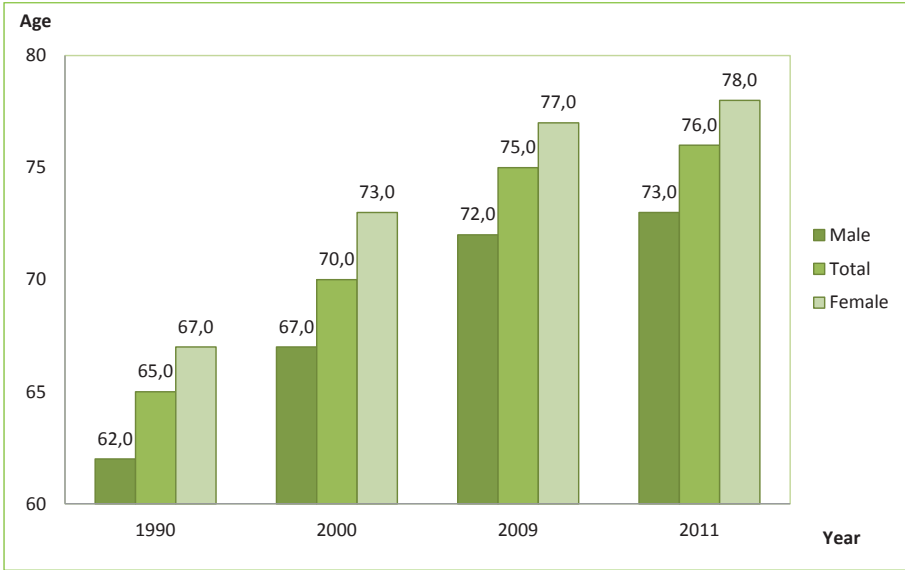
Rural Population Ratio (%)	: The ratio of the population living in settlements with a population of 20,000 and below to the total population.
Urban Population Ratio (%)	: The ratio of the population living in settlements with a population of 20,000 and above to the total population.
0-14 Aged Population Ratio (%)	: It is the ratio of the 0-14 aged population to the total population.
65 and 65+ Aged Population Ratio (%)	: It is the ratio of the 65+ aged population to the total population.
Young Age Dependency Ratio (0-14 Age)	: It is the ratio of younger dependents (aged 15 and under) to the working-age population (from 15 to 64).
Old Age Dependency Ratio (65 + Age)	: It is the ratio between the (projected) total number elderly persons (aged 65 and over) and the (projected) number of persons of working age (from 15 to 64).
Total Dependency Ratio	: It is the ratio of dependents younger than 15 or older than 65 to the number of persons of working age (from 15 to 64).
Crude Birth Rate:	: It indicates the number of live births occurring during the year, per 1,000 population estimated at midyear.
Crude Death Rate	: It indicates the number of deaths occurring during the year, per 1,000 population estimated at midyear.
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.



Mortality

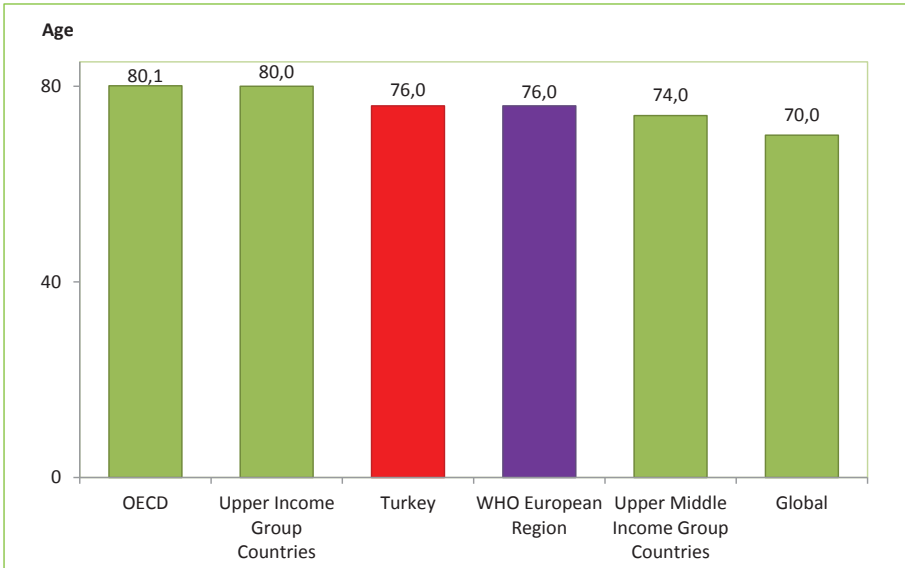
Chapter 2 Mortality

Figure 2.1. Life Expectancy at Birth, (Year), 1990, 2000, 2009, 2011, Turkey



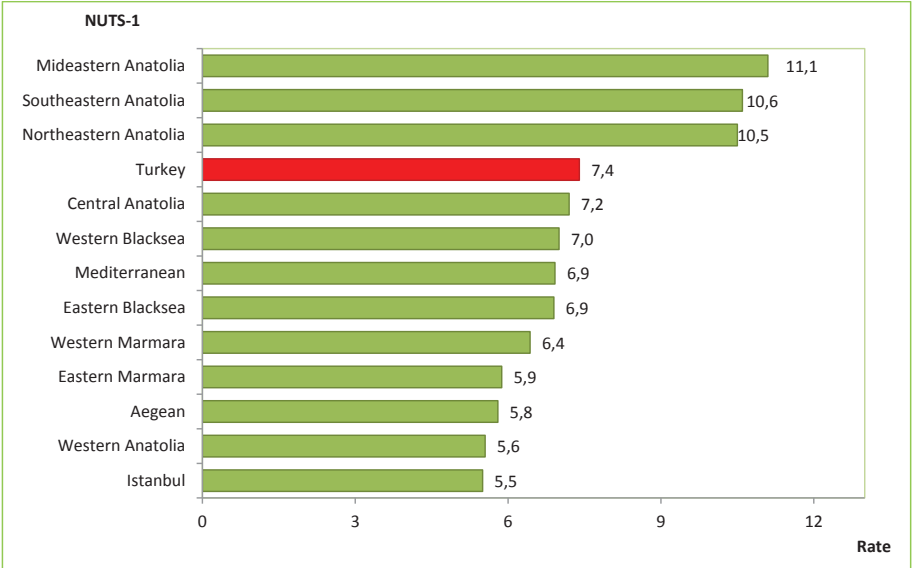
Source: WHO World Health Statistics 2011, WHO World Health Statistics 2013

Figure 2.2. International Comparison of Life Expectancy at Birth, 2011



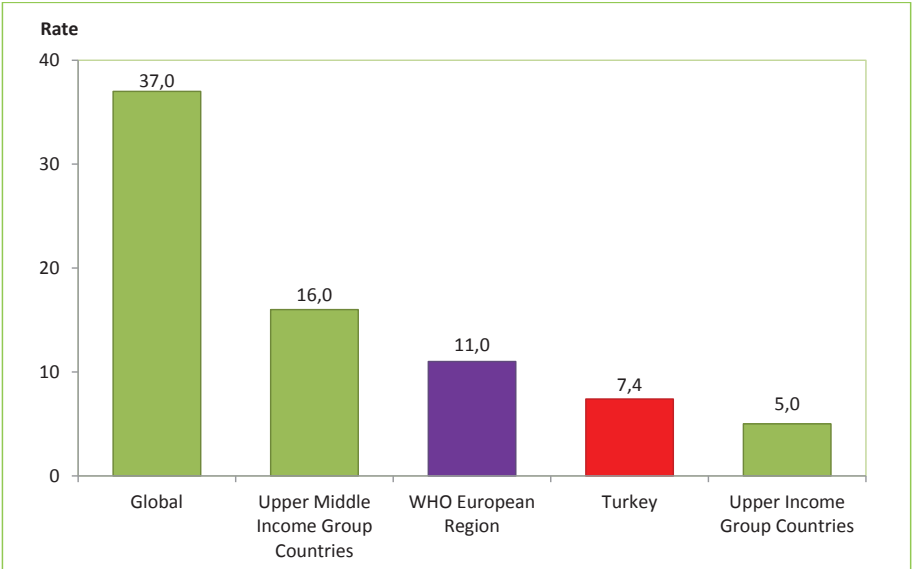
Source: OECD Health Data 2013, WHO World Health Statistics 2013

Figure 2.3. Infant Mortality Rate by NUTS-1, (per 1.000 Live Births), 2012



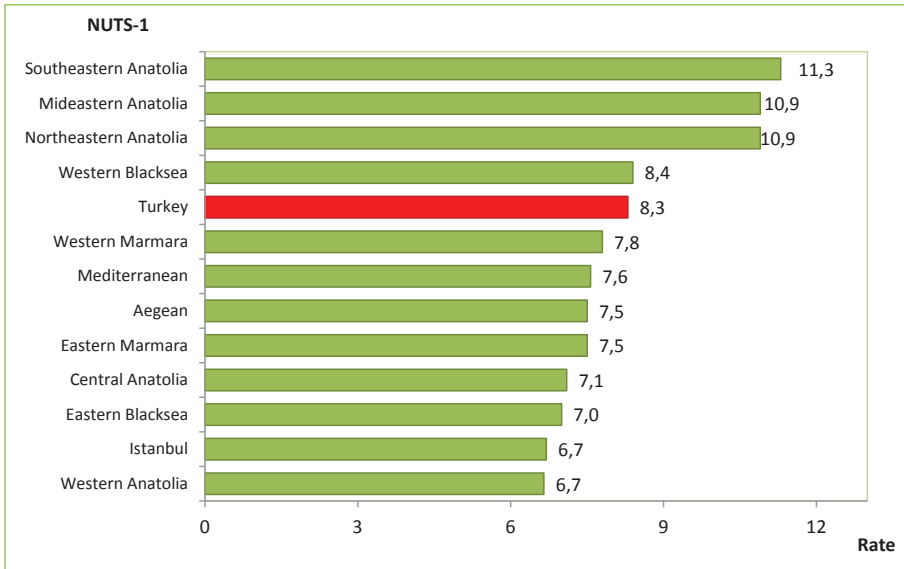
Source: Public Health Institution of Turkey

Figure 2.4. International Comparison of Infant Mortality Rate, (per 1.000 Live Births), 2011



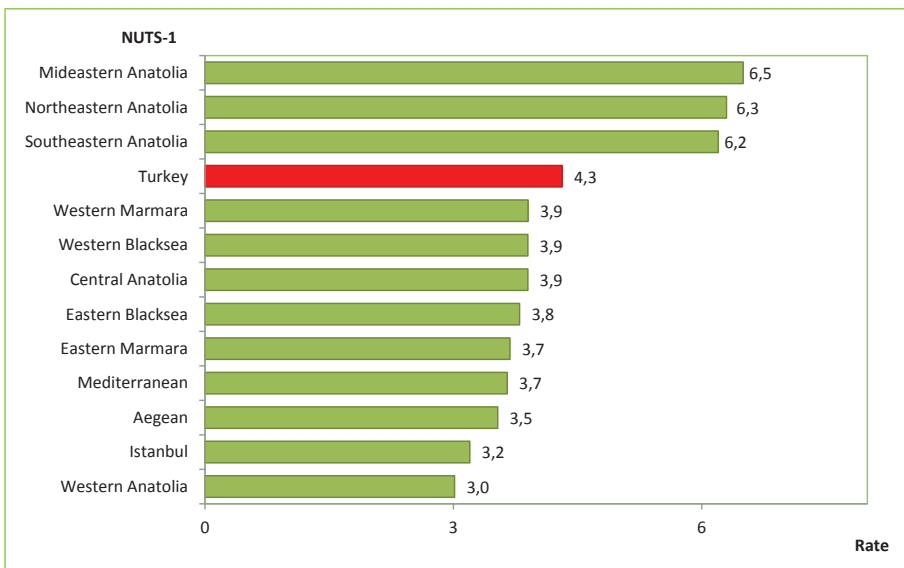
Source: WHO World Health Statistics 2013, Public Health Institution of Turkey
Note: Turkey's data belongs to 2012

Figure 2.5. Perinatal Mortality Rate by NUTS-1, (per 1.000 Live Births), 2012



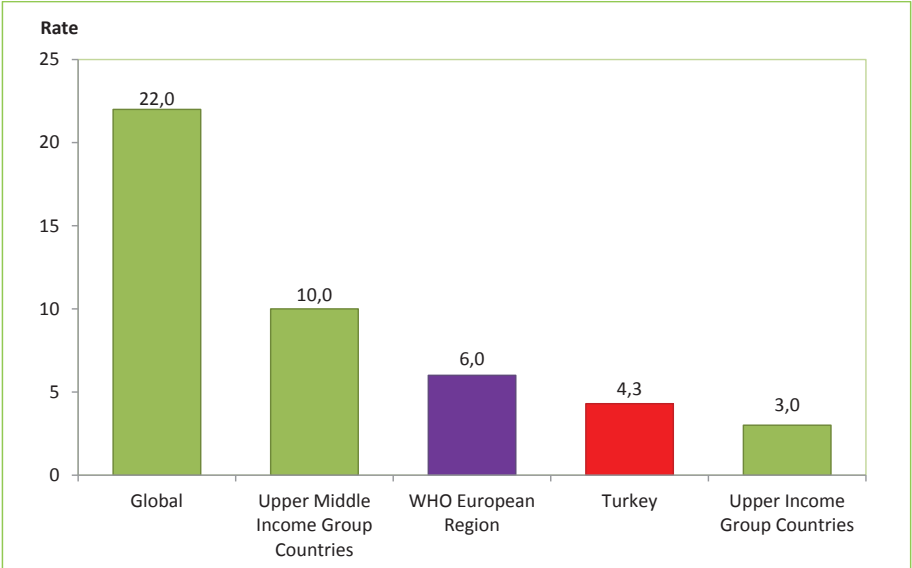
Source: Public Health Institution of Turkey

Figure 2.6. Neonatal Mortality Rate by NUTS-1, (per 1.000 Live Births), 2012



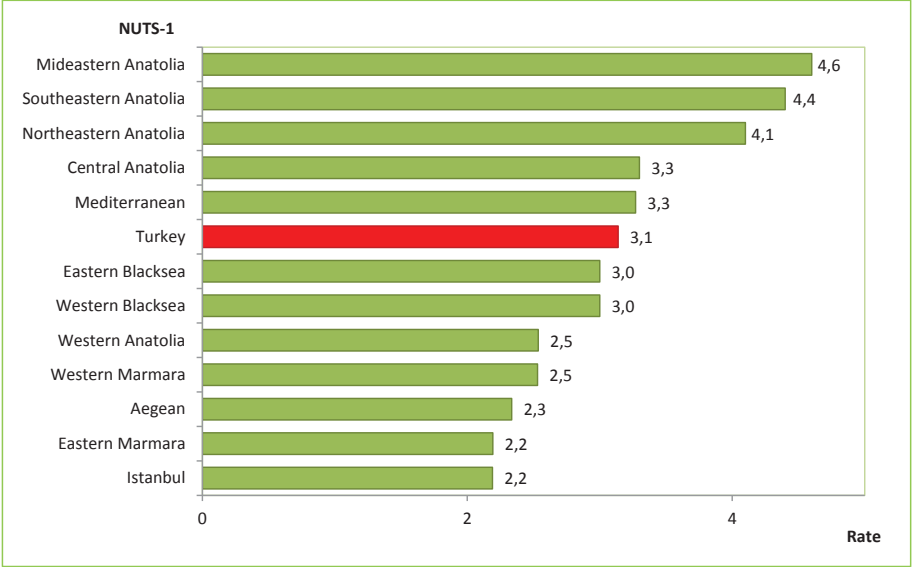
Source: Public Health Institution of Turkey

Figure 2.7. International Comparison of Neonatal Mortality Rate, (per 1.000 Live Births), 2011



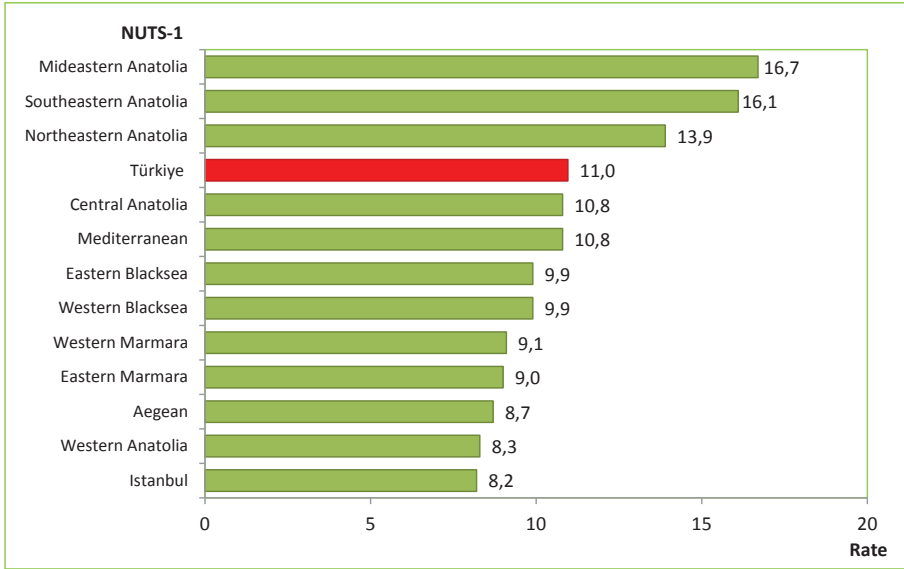
Source: WHO World Health Statistics 2013, Public Health Institution of Turkey
Note: Turkey's data belongs to 2012

Figure 2.8. Postneonatal Mortality Rate by NUTS-1, (per 1.000 Live Births), 2012



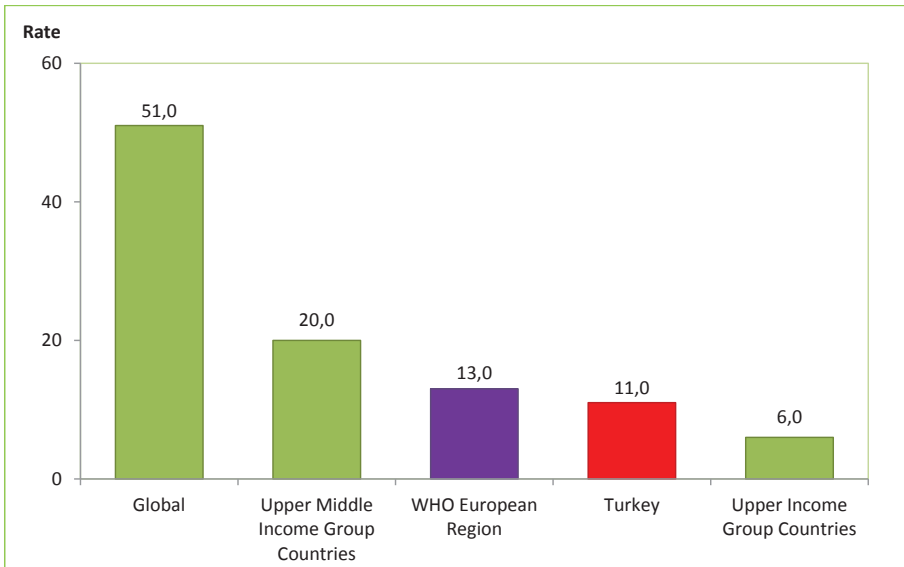
Source: Public Health Institution of Turkey

Figure 2.9. Under-5 Mortality Rate by NUTS-1, (per 1.000 Live Births), 2012



Source: Public Health Institution of Turkey

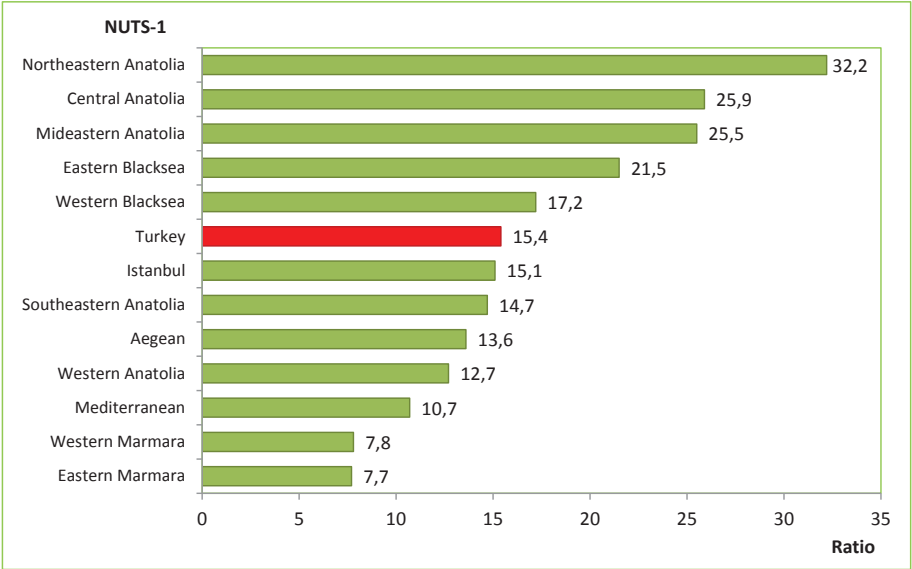
Figure 2.10. International Comparison of Under-5 Mortality Rate, (per 1.000 Live Births), 2011



Source: WHO World Health Statistics 2013, Public Health Institution of Turkey

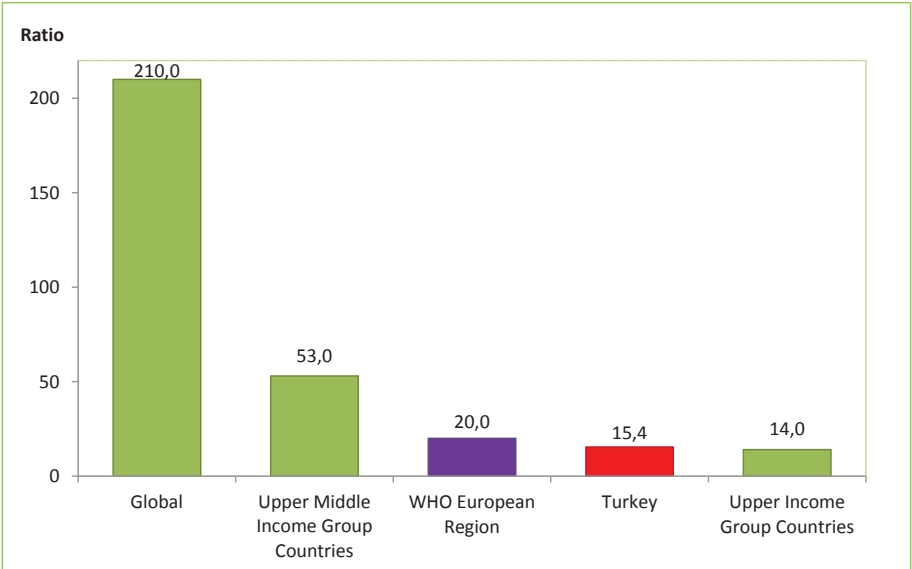
Note: Turkey's data belongs to 2012

Figure 2.11. Maternal Mortality Rate by NUTS-1, (per 100.000 Live Births), 2012



Source: Public Health Institution of Turkey

Figure 2.12. International Comparison of Maternal Mortality Ratio, (per 100.000 Live Births), 2010



Source: WHO World Health Statistics 2013, Public Health Institution of Turkey
Note: Turkey's data belongs to 2012

Table 2.1. Distribution of Causes of Death by the ICD-10 Main Diagnosis Codes and Sex, (%), Turkey, 2010, 2011, 2012

ICD-10 Diagnosis Codes	Code	2010			2011			2012		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Certain Infectious and Parasitic Diseases	A00-B99	1,68	1,63	1,66	1,56	1,60	1,57	1,61	1,75	1,67
Neoplasms	C00-D48	25,77	16,76	21,71	25,48	16,86	21,60	25,53	16,79	21,58
Diseases of the Blood and Bloodforming Organs and Certain Disorders Involving the Immune Mechanism	D50-D89	0,39	0,52	0,45	0,37	0,53	0,44	0,36	0,51	0,43
Endocrine, Nutritional and Metabolic Diseases	E00-E90	4,96	8,26	6,45	4,81	8,09	6,29	4,65	7,65	6,00
Mental and Behavioural Disorders	F00-F99	0,17	0,18	0,17	0,15	0,18	0,16	0,20	0,19	0,20
Diseases of the Nervous System and Sense Organs	G00-H95	3,15	4,30	3,67	3,22	4,34	3,72	3,60	5,13	4,29
Diseases of the Circulatory System	I00-I99	35,76	44,34	39,63	35,03	43,41	38,80	34,41	42,21	37,93
Diseases of the Respiratory System	J00-J99	9,26	7,12	8,29	11,20	8,65	10,05	10,67	8,44	9,67
Diseases of the Digestive System	K00-K93	2,48	2,62	2,54	2,47	2,61	2,54	2,52	2,70	2,60
Diseases of the Skin and Subcutaneous Tissue	L00-L99	0,05	0,08	0,06	0,05	0,10	0,07	0,05	0,09	0,07
Diseases of the Musculoskeletal System and Connective Tissue	M00-M99	0,29	0,68	0,46	0,27	0,59	0,41	0,29	0,59	0,42
Diseases of the Genitourinary System	N00-N99	2,81	3,14	2,96	3,06	3,44	3,23	3,10	3,52	3,29
Pregnancy, Childbirth and the Puerperium	O00-O99	-	0,03	0,02	-	0,04	0,02	-	0,04	0,02
Certain Conditions Originating in the Perinatal Period	P00-P96	1,82	1,75	1,79	1,66	1,59	1,63	1,77	1,73	1,75
Congenital Malformations, Deformations and Chromosomal Abnormalities	Q00-Q99	1,24	1,42	1,32	1,26	1,46	1,35	1,15	1,30	1,22
Symptoms, Signs and Abnormal Clinical and Laboratory Findings, Not Elsewhere Classified	R00-R99	4,55	4,24	4,41	4,20	3,83	4,04	4,76	4,75	4,76
Injury, Poisoning and Certain other Consequences of External Causes	S00-T98	5,62	2,93	4,41	5,21	2,67	4,07	5,32	2,63	4,10

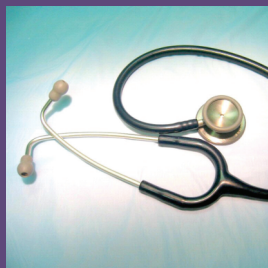
Source: TURKSTAT Causes of Death Statistics, 2010, 2011, 2012

Explanations for Chapter 2

→ While Infant, Neonatal, Postneonatal, and under-5 mortality rates were being calculated, 28 weeks-old and older or 1000gr and over mortalities were taken into account.

TURKSTAT Causes of Death 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 Causes of Death statistics
Scope of Data	: The data covers the mortality cases seen by the physicians in the provincial and district centres, and all of the settlements with physician.
Resources of Data	: Hospitals, family health centers, municipal medical offices, forensic medicine institutions and other health institutions.
Data Compilation System	: The mortality certificate is compiled 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 compiled mortality certificates are compiled for the whole province in the Provincial Health Directorates, and transmitted to the relevant TURKSTAT Regional Directorates.
Data Processing	: The data entry of the other parts in the mortality certificate, except the disease part, 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.



Morbidity

Chapter 3 Morbidity

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

		2002	2008	2009	2010	2011	2012
AIDS	Local Case	42	48	68	64	66	79
	Imported Case	6	1	7	6	14	10
	Total Case	48	49	75	70	80	89
Measles	Local Case	7.810	0	0	0	0	318
	Imported Case	0	4	4	7	111	31
	Total Case	7.810	4	4	7	111	349
Tuberculosis	Local Case	18.043	17.425	16.594	15.700	14.852	14.430
	Imported Case	0	175	163	179	202	261
	Total Case	18.043	17.600	16.757	15.879	15.054	14.691
Malaria	Local Case	10.184	166	38	9*	4*	1*
	Imported Case	40	49	46	78	128	375
	Total Case	10.224	215	84	87	132	376

Source: Public Health Institution of Turkey

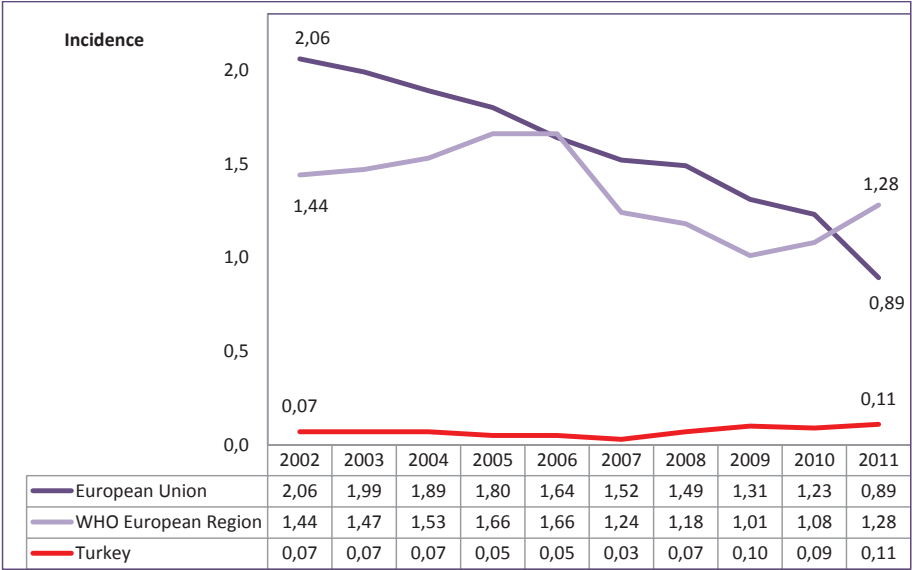
*2010, 2011 and 2012 all local malaria cases are "Relapsing malaria case" **local new case number is "0" (zero)**

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

	2002	2008	2009	2010	2011	2012
AIDS	0,07	0,07	0,10	0,09	0,11	0,12
Measles	11,1	0,0	0,0	0,0	0,1	0,5
Tuberculosis	32	29	27	25	24	22
Malaria	14,7	0,3	0,1	0,1	0,2	0,5

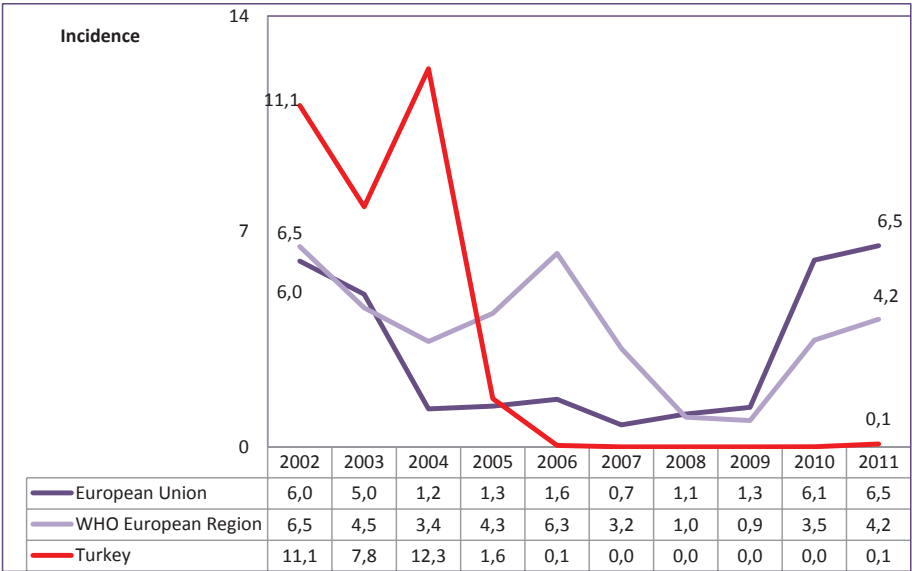
Source: Public Health Institution of Turkey, WHO Global Health Observatory Database

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



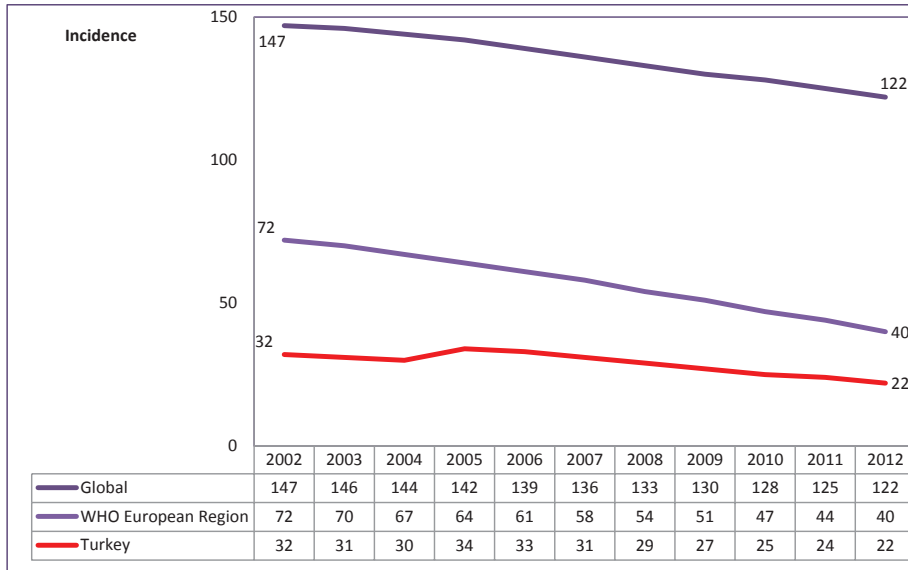
Source: WHO HFA Database, Public Health Institution of Turkey

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



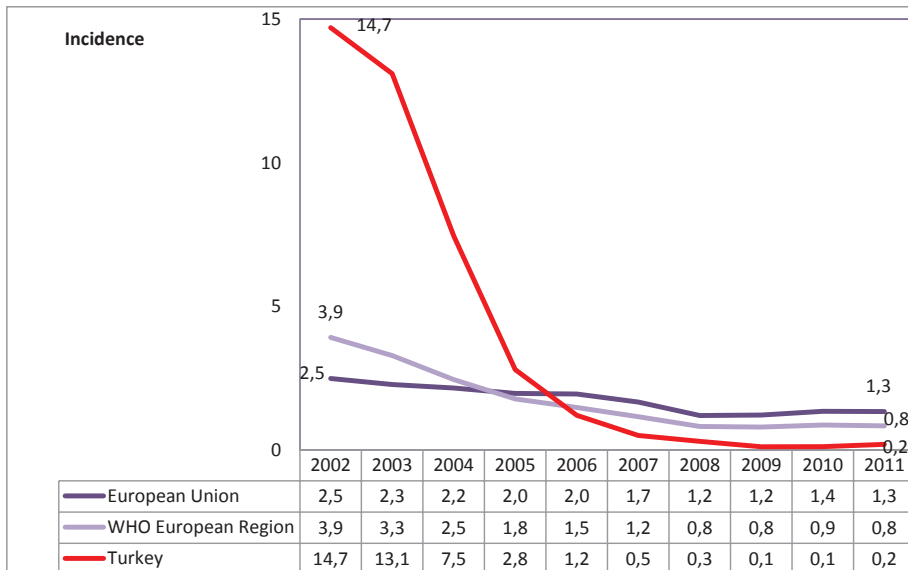
Source: WHO HFA Database, Public Health Institution of Turkey

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

ICD-10 Diagnosis Groups	Code	2011			2012		
		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
Neoplasms	C00-D48	4,8	3,5	4,1	4,8	3,5	4,1
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
Endocrine, Nutritional and Metabolic Diseases	E00-E90	2,2	3,4	2,9	2,2	3,3	2,8
Mental and Behavioural Disorders	F00-F99	1,8	1,2	1,5	2,3	1,3	1,7
Diseases of the Nervous System	G00-G99	1,9	1,8	1,8	1,8	1,7	1,8
Diseases of the Eye and Adnexa	H00-H59	3,7	3,3	3,5	4,2	3,6	3,9
Diseases of the Ear and Mastoid Process	H60-H95	0,8	0,7	0,7	0,7	0,6	0,6
Diseases of the Circulatory System	I00-I99	9,0	6,2	7,5	9,2	6,4	7,7
Diseases of the Respiratory System	J00-J99	17,5	10,2	13,5	17,0	9,7	12,9
Diseases of the Digestive System	K00-K93	10,8	8,3	9,4	11,5	9,1	10,2
Diseases of the Skin and Subcutaneous Tissue	L00-L99	3,8	2,1	2,9	3,9	2,1	2,9
Diseases of the Musculoskeletal System and Connective Tissue	M00-M99	4,1	5,2	4,7	3,9	5,0	4,5
Diseases of the Genitourinary System	N00-N99	7,8	8,2	8,0	6,9	8,4	7,7
Pregnancy, Childbirth and the Puerperium	O00-O99	-	21,6	12,0	-	21,8	12,1
Certain Conditions Originating in the Perinatal Period	P00-P96	2,6	1,9	2,2	2,9	2,0	2,4
Congenital Malformations, Deformations and Chromosomal Abnormalities	Q00-Q99	1,1	0,5	0,8	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
Injury, Poisoning and Certain other Consequences of External Causes	S00-T98	8,7	4,4	6,3	8,1	4,3	5,9
Factors Influencing Health Status and Contact With Health Services	Z00-Z99	9,2	8,8	9,0	9,6	8,6	9,1
Total		100	100	100	100	100	100

Source: Diagnosis-Related Groups Database

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

Year	Male	Female	Total
2004	236,3	142,9	189,6
2005	246,5	149,7	198,1
2006	256,4	158,1	207,3
2007	271,7	166,8	219,3
2008	280,5	172,0	226,3
2009*	304,5	182,3	243,4
2010*	330,4	193,2	261,8
2011*	358,4	204,7	281,6

Source: Public Health Institution of Turkey

* These data are the estimates because data collection and duplication and quality checks of the 2009-2011 data are not finished yet.

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

	2004	2005	2006	2007	2008	2009*	2010*	2011*
Breast	34,7	35,0	37,6	35,9	40,7	42,1	43,6	45,1
Thyroid	7,3	9,6	10,8	14,4	16,2	19,7	24,0	29,8
Colorectal	11,3	11,1	12,5	12,3	13,2	13,9	14,6	15,3
Uterine Corpus	7,6	7,1	8,4	8,7	8,6	9,5	10,4	11,4
Trachea Lung and Bronch	7,4	7,4	7,7	7,8	8,2	8,7	9,3	9,9
Non-Hodgkin Lymphoma	4,4	4,0	4,9	5,2	5,0	6,0	7,2	8,6
Stomach	6,4	6,9	7,6	8,4	7,7	8,0	8,3	8,6
Ovarium	5,8	5,6	5,9	6,5	6,9	7,1	7,3	7,5
Uterine Cervix	4,5	4,4	4,8	4,3	4,1	4,9	5,9	7,1
Brain, Other Nervous System(ONS)	3,6	4,0	4,6	4,6	4,4	4,5	4,6	4,7

Source: Public Health Institution of Turkey

* These data are the estimates because data collection and duplication and quality checks of the 2009-2011 data are not finished yet.

Table 3.6. Incidence of the Most Common 10 Cancer Types Among Men by Years, (per 100.000, World Standard Population), Turkey

	2004	2005	2006	2007	2008	2009*	2010*	2011*
Trachea Lung and Bronch	65,1	65,9	68,9	73,0	69,2	74,1	79,3	84,9
Prostate	24,9	28,6	28,9	32,3	37,6	44,0	51,4	60,0
U. Bladder	19,3	20,6	21,0	22,5	21,7	23,4	25,3	27,3
Colorectal	16,5	16,2	18,2	19,1	20,8	22,5	24,3	26,3
Stomach	14,1	14,9	14,8	17,3	18,0	19,1	20,3	21,6
Non-Hodgkin Lymphoma	6,3	5,9	6,9	7,6	6,9	8,5	10,4	12,7
Larynx	10,0	8,9	9,7	9,3	9,1	9,5	9,9	10,3
Pancreas	4,0	4,4	5,2	6,3	6,1	6,7	7,3	8,0
Kidney	4,1	4,1	5,5	5,2	5,8	6,3	6,9	7,5
Brain, Other Nervous System(ONS)	4,7	5,7	5,4	5,8	6,1	6,2	6,3	6,4

Source: Public Health Institution of Turkey

* These data are the estimates because data collection and duplication and quality checks of the 2009-2011 data are not finished yet.

Table 3.7. The Status of the 18 and 18+ 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: Development of Health in Turkey Research Report 2013

Table 3.8. Distribution of the Status of 15 and 15+ 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 3.9. Distribution of the Status of 15 and 15+ 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 3.10. Distribution of the Status of 15 and 15+ 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 3.11. Distribution of 15 and 15+ 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 3.12. Distribution of 15 and 15+ 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 3.13. Distribution of Diseases/ Health Problems Declared by 15 and 15+ 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	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 3.14 Distribution of 15 and 15+ Aged Individuals Morbidity/ Health Problems Diagnosed by Physician, by Sex and Residence, (%), 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	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 (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 incidence of tuberculosis in 2012 will be given in the Global Tuberculosis Control 2013 Report published by the World Health Organization.

→ The data related to cancer is taken from the Active Cancer Registry System. Active Cancer Registry System; The information, the patient files and electronic databases of which are researched individually by the cancer registry staff, is transferred to the cancer registry forms. After the entry of these forms into the Canreg-4 software program in the Provincial Directorate of Public Health Cancer Registry Centres, and the duplication control and the other quality control studies are made, the data is electronically transmitted to the Presidency of Public Health Institution of Turkey. As all over the world, regions (provinces) that can do professional cancer registry and reflect at least 20% of the population of the country have been selected also in our country. There are 12 Active Cancer Registry Centres in our country collecting data in this system. These provinces are Ankara, Antalya, Bursa, Edirne, Erzurum, Eskişehir, Gaziantep, İzmir, Kocaeli, Malatya, Samsun, Trabzon.

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.

Development of Health in Turkey Research Report 2013

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 and health 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,
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- 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.



Chapter 4

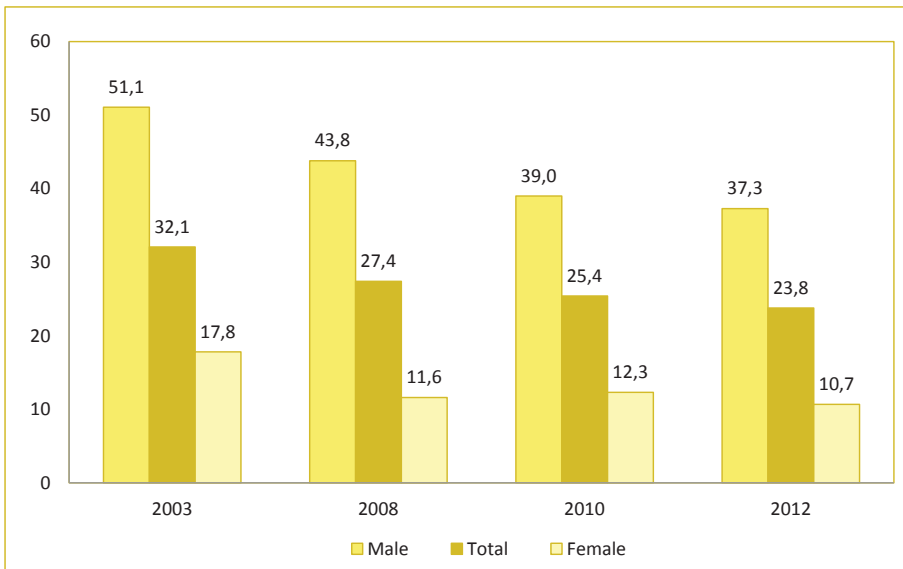
Risk Factors

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	93,2	77,9	56,9	84,4	70,9	58,5	86,8	72,9

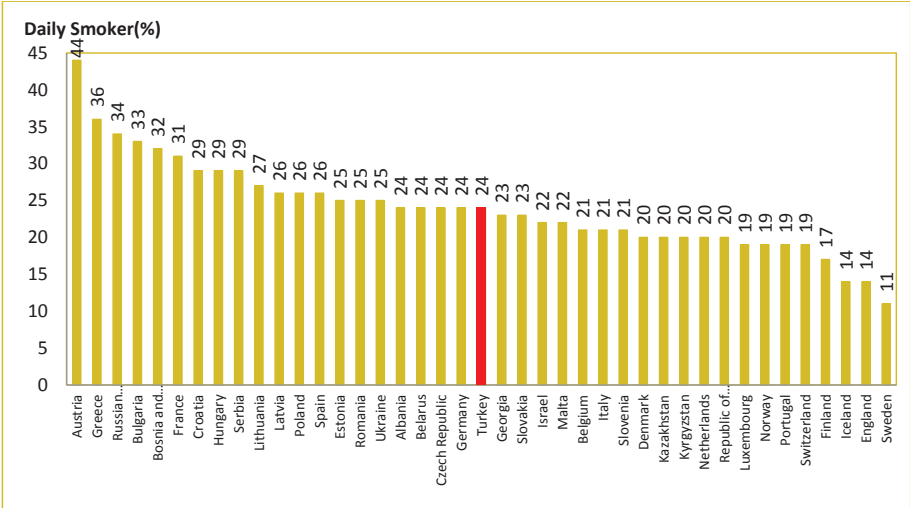
Source: TURKSTAT, Global Adult Tobacco Survey 2012

Figure 4.1 Distribution of Individuals Using Tobacco Product Daily by Sex, (%), 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 Interview Survey 2010, TURKSTAT 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 15+ 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

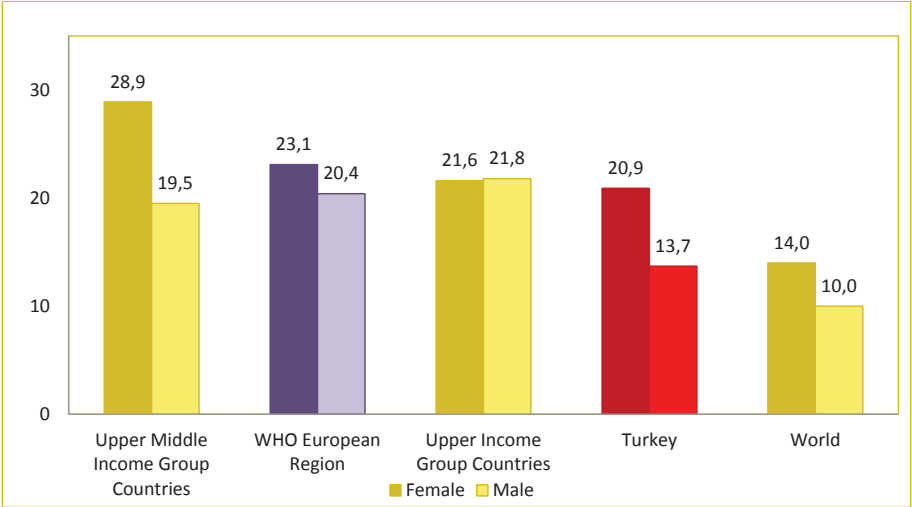
Source: TURKSTAT, Health Interview Survey 2012

Table 4.5 Distribution of Body Mass Index of 15 and 15+ 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≥30) Individuals by Sex, 2011



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

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

Age Group	Average Weights (kg)			Average 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. The Things that 18 and 18+ Aged Individuals have done to be healthier within the Last 1 Year, (%), 2013

	Yes	No
I did Exercise	15,5	84,5
I Made my Eating Habits Healthy	6,8	93,2
I Received the Treatment Applied by the Doctor due to my Disease	6,0	94,0
I Lost Weight	4,1	95,9
I Retained my Weight	3,7	96,3
I Quitted Smoking	1,4	98,6
I Reduced my Stress	1,3	98,7
I Gained Weight	0,9	99,1
I Reduced my Amount of Smoking	0,8	99,2
I Reduced my Amount of Drinking Alcohol	0,2	99,8
I Went for Walking	0,2	99,8
I had Regular Sleep	0,1	99,9
I Quitted Drinking Alcohol	0,1	99,9
I Drink Herbal Tea / I Use Herbal Products	0,1	99,9
I had a Diet	0,0	100,0
I Swam	0,0	100,0
I had Regular Sleep	0,0	100,0
I Try to Get Fresh Air	0,0	100,0
I Went to the Thermal Baths	0,0	100,0
I Took Vitamins	0,1	100,0
I Drink Boiling Water for my Stomach	0,0	100,0
I Care for my Dental Health	0,0	100,0
I have been Nourished with Organic Products	0,0	100,0
I Quitted my Job for my Health	0,0	100,0
I Drink Milk every Night	0,0	100,0

Source: Development of Health in Turkey Research Report 2013

Table 4.8. The Status of the 18 and 18+ Aged Individuals regarding having Regular Breakfast, (%), 2013

	The Status of Making 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: Development of Health in Turkey Research Report 2013

Table 4.9. Hand-Washing Habit of the 18 and 18+ 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: Development of Health in Turkey Research Report 2013

Table 4.10. Habit of Fastening Seat-Belt of the 18 and 18+ 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: Development of Health in Turkey Research Report 2013

Table 4.11. Distribution of the 15 and 15+ Aged Individuals' Frequency of Fruit Consumption by Sex and Residence, 2012

	Rural			Urban			Turkey		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Twice or More a Day	8,1	8,8	8,4	9,1	11,7	10,5	8,8	10,8	9,8
Once a Day	39,3	38,7	39,0	47,4	46,3	46,8	44,9	43,9	44,4
Less Than Once a Day But at Least 4 Times a Week	23,6	24,0	23,8	21,8	20,6	21,2	22,4	21,7	22,0
Less Than 4 Times a Week But at Least Once a Week	19,8	18,1	18,9	15,6	14,1	14,9	16,9	15,4	16,1
Less Than Once a Week	8,5	9,5	9,0	5,1	6,0	5,6	6,2	7,1	6,6
Never Consumed	0,8	0,9	0,9	0,9	1,2	1,1	0,9	1,1	1,0

Source: TURKSTAT, Health Interview Survey 2012

Table 4.12. Distribution of the 15 and 15+ Aged Individuals' Frequency of Vegetable or Salad Consumption by Sex and Residence, 2012

	Rural			Urban			Turkey		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Twice or More a Day	12,7	13,7	13,2	11,0	14,8	12,9	11,5	14,4	13,0
Once a Day	45,0	44,5	44,7	55,1	54,8	55,0	52,1	51,5	51,8
Less Than Once a Day But at Least 4 Times a Week	23,7	23,3	23,5	21,2	19,5	20,3	21,9	20,7	21,3
Less Than 4 Times a Week But at Least Once a Week	13,5	13,9	13,7	9,6	8,3	9,0	10,8	10,1	10,4
Less Than Once a Week	4,7	4,5	4,6	2,7	2,4	2,5	3,3	3,0	3,1
Never Consumed	0,5	0,3	0,4	0,5	0,3	0,4	0,5	0,3	0,4

Source: TURKSTAT, Health Interview Survey 2012

Table 4.13. Distribution of the 15 and 15+ Aged Individuals' Frequency of Fruit or Vegetable Juice Consumption by Sex and Residence, 2012

	Rural			Urban			Turkey		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Twice or More a Day	1,9	1,6	1,8	2,9	2,9	2,9	2,6	2,5	2,5
Once a Day	12,0	9,0	10,5	17,2	14,9	16,0	15,6	13,0	14,3
Less Than Once a Day But at Least 4 Times a Week	15,2	13,9	14,5	17,2	15,6	16,4	16,6	15,1	15,8
Less Than 4 Times a Week But at Least Once a Week	19,9	20,5	20,2	22,1	20,6	21,3	21,4	20,6	21,0
Less Than Once a Week	30,5	32,9	31,7	27,3	29,1	28,2	28,3	30,3	29,3
Never Consumed	20,5	22,1	21,3	13,4	16,9	15,2	15,6	18,6	17,1

Source: TURKSTAT, Health Interview Survey 2012

Table 4.14. Distribution of the 15 and 15+ Aged Individuals' Status of Having Blood Pressure, Blood Cholesterol and Blood Sugar Measurements by Sex 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 his or her height.

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

TURKSTAT Health Interview Survey 2012

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Development of Health in Turkey Research Report 2013

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TURKSTAT, Global Adult Tobacco Survey 2012

It has been implemented with the method of face-to-face interview with 11,536 households and 9,859 individuals in these households who are 15 and 15+ 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 4,922 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 4,937 eligible individuals living in these households. In total, 9,859 individuals have been interviewed.



Chapter 5

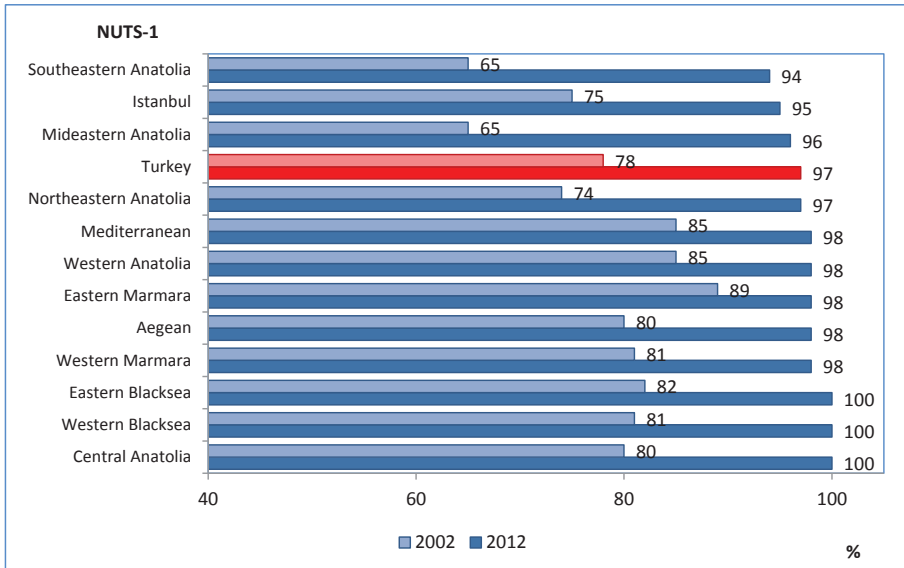
Prevention of Diseases and Protection of Health

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

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

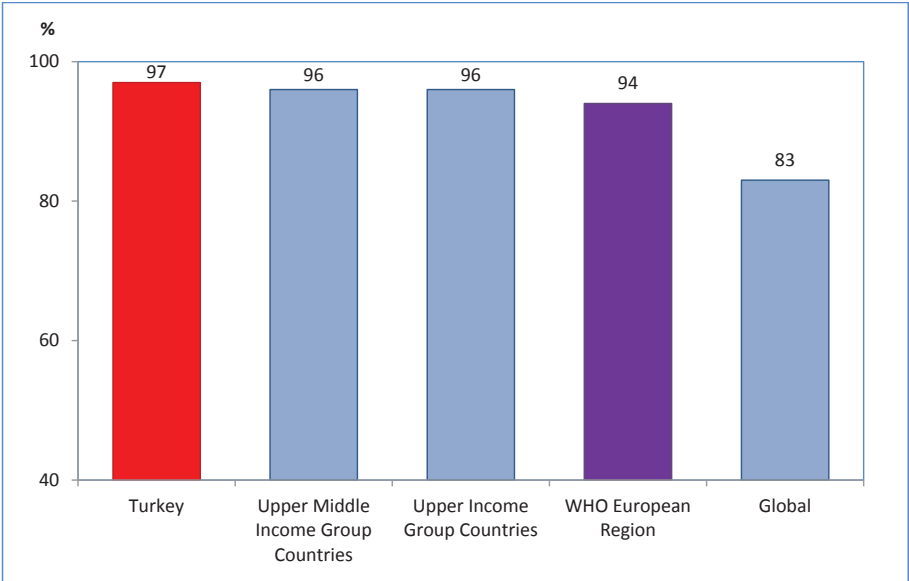
Source: Public Health Institution of Turkey

Figure 5.1. Third Dose Immunization Coverage of 5-Component Combined Vaccine (DaPT+IPV+Hib) by NUTS-1, (%), 2002, 2012



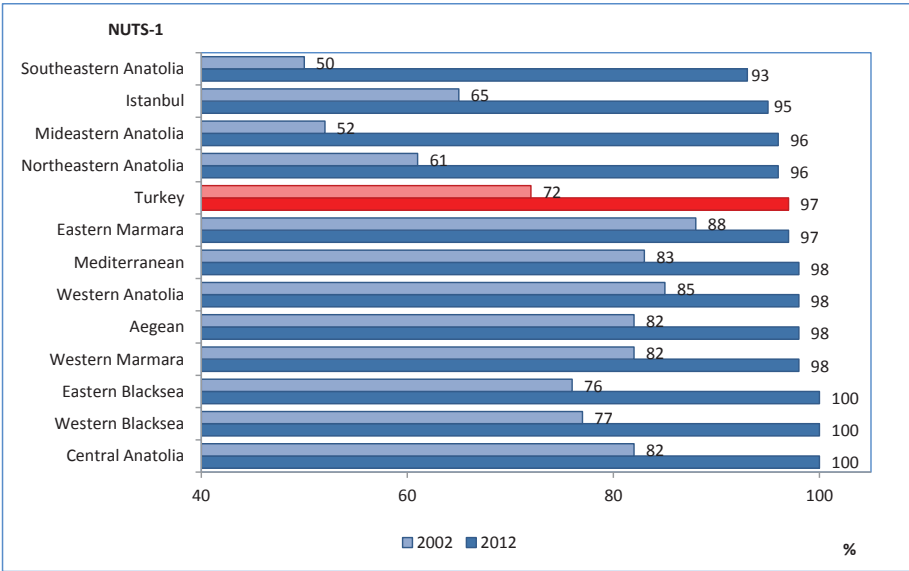
Source: Public Health Institution of Turkey

Figure 5.2. International Comparison of 5-component Combined Vaccine (DaPT+IPV+Hib) Immunization Coverage (%), 2011



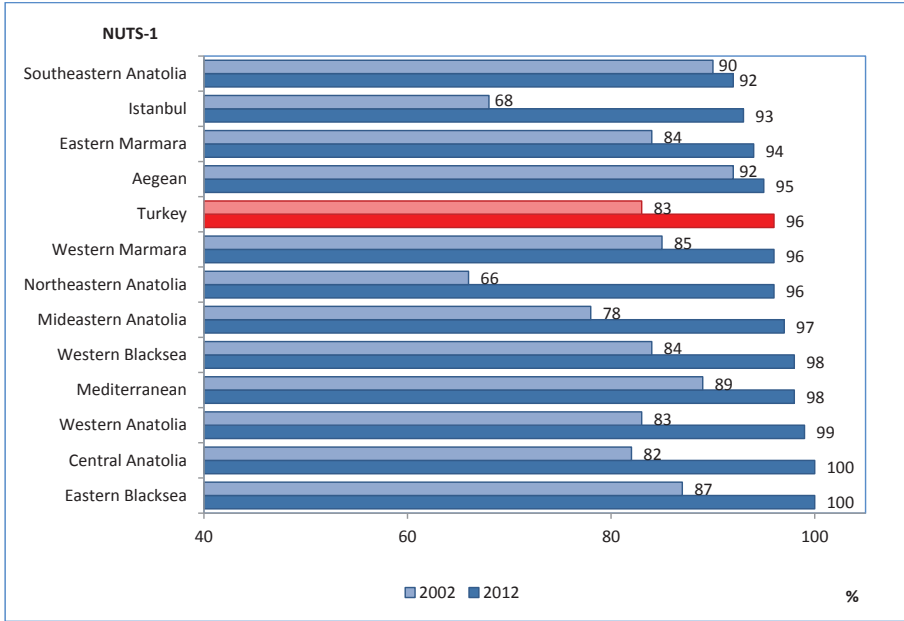
Source: WHO World Health Statistics 2013

Figure 5.3. HBV-3 Immunization Coverage by NUTS-1, (%), 2002, 2012



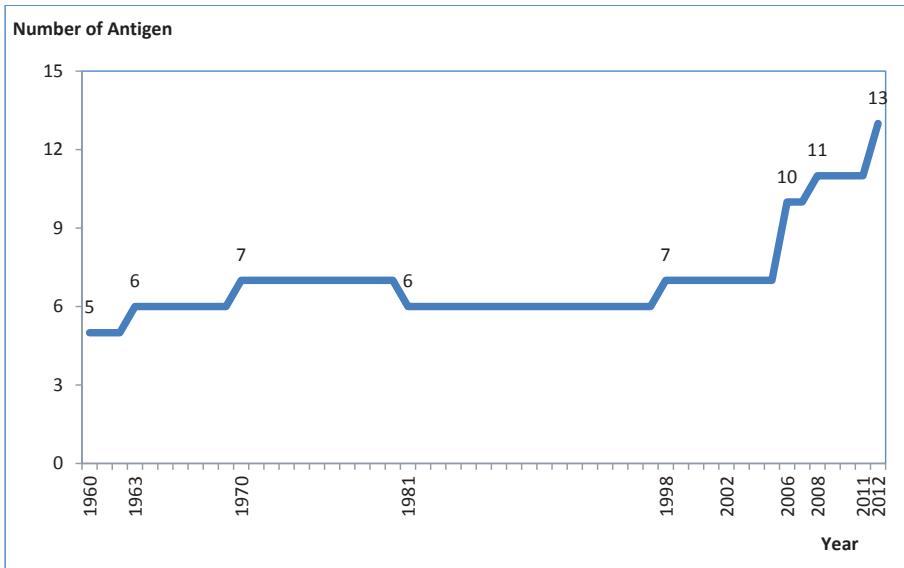
Source: Public Health Institution of Turkey

Figure 5.4. MMR Immunization Coverage by NUTS-1, (%), 2002, 2012



Source: Public Health Institution of Turkey

Figure 5.5. Number of Vaccine Antigens Applied 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
Births in Health Care Institution (%)	75	91	92	94	97
Antenatal Care Coverage Minunun One Visits) (%)	70	93	94	95	97
Cesarean Sections Among All Births (%)	21,0	42,7	45,5	46,6	48,0
Share of Primary Cesarean within All Births (%)	-	27,2	25,7	24,8	24,6

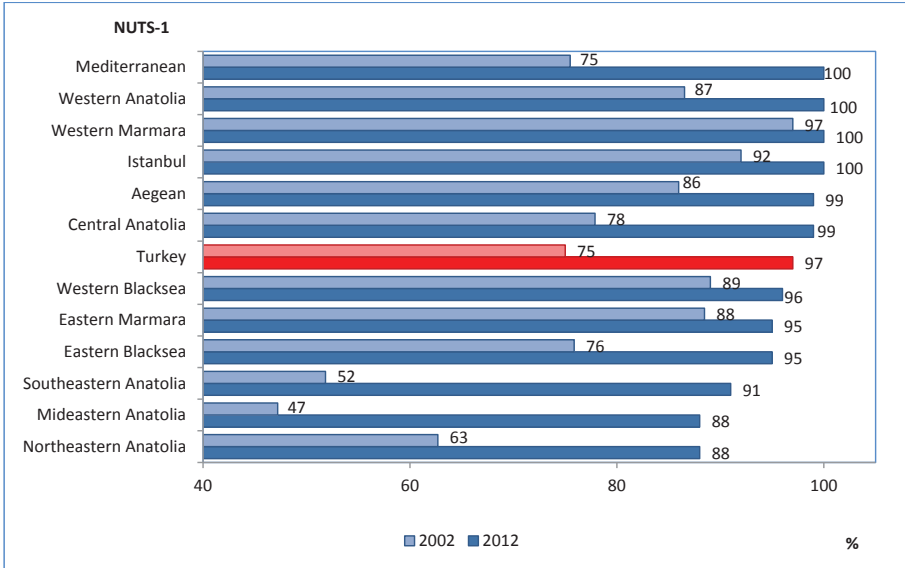
Source: Public Health Institution of Turkey

Table 5.3. Proportions of Cesarean and Primary Cesarean by Years and Sectors, Turkey

	Cesarean Sections Among All Births (%)				Share of Primary Cesarean within All Births (%)			
	2009	2010	2011	2012	2009	2010	2011	2012
Ministry of Health	39,3	40,2	36,8	35,3	24,3	22,3	17,6	15,4
University	63,2	65,2	65,9	62,6	42,6	38,4	37,4	33,6
Private	61,8	63,7	66,6	66,2	40,8	36,3	38,3	37,3
Total	42,7	45,5	46,6	48,0	27,2	25,7	24,8	24,6

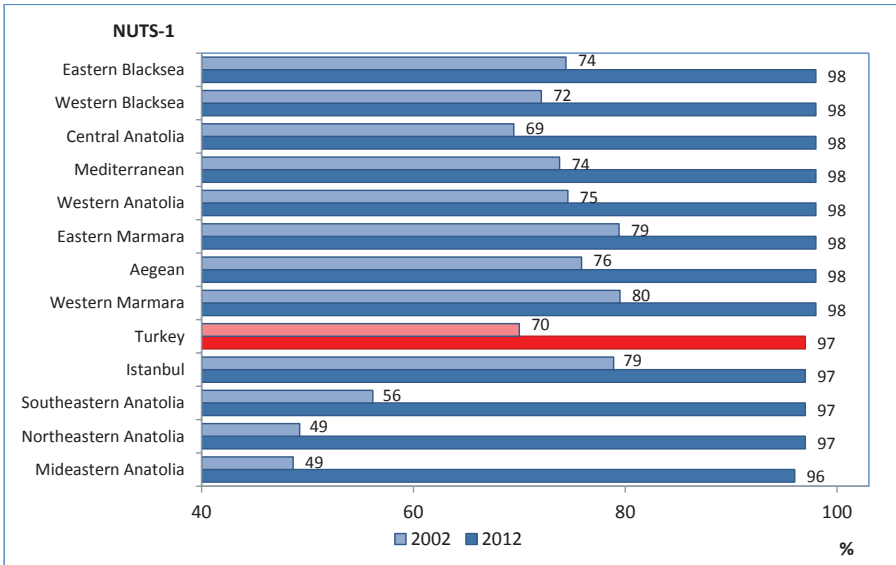
Source: Public Health Institution of Turkey

Figure 5.6. Proportion of Births in Health Care Institution by NUTS-1, (%), 2002, 2012



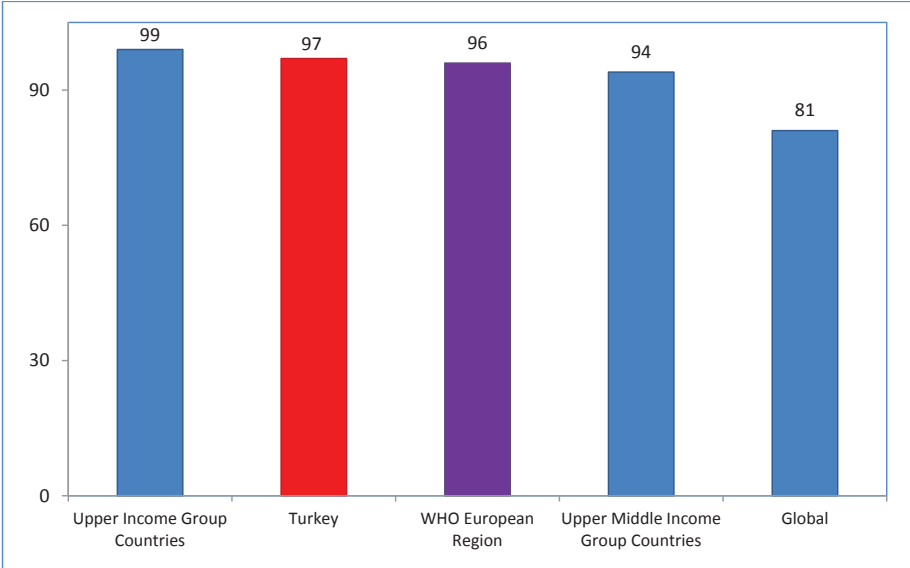
Source: Public Health Institution of Turkey

Figure 5.7. Proportion of Antenatal Care Coverage (Minimum 1 Visit), by NUTS-1, (%), 2002, 2012



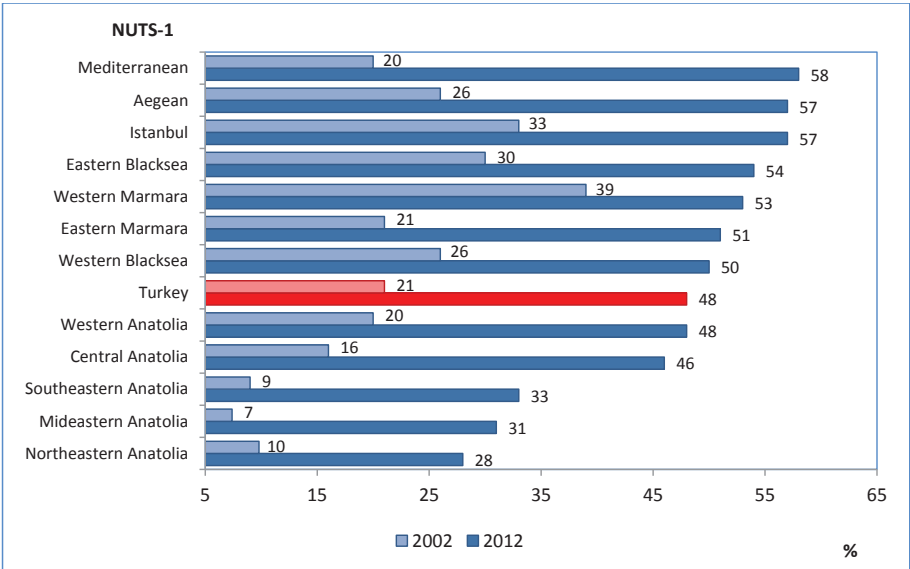
Source: Public Health Institution of Turkey

Figure 5.8. International Comparison of Antenatal Care Coverage (Minimum 1 Visit), (%), 2011



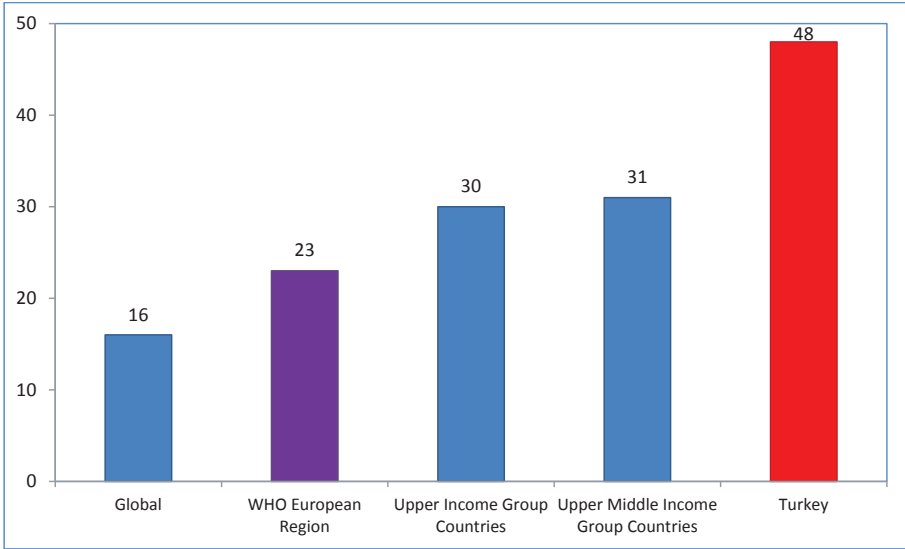
Source: WHO World Health Statistics 2013
Note: Turkey's data belongs to 2012

Figure 5.9. Proportion of Cesarean Sections among All Births by NUTS-1, (%), 2002, 2012



Source: Public Health Institution of Turkey

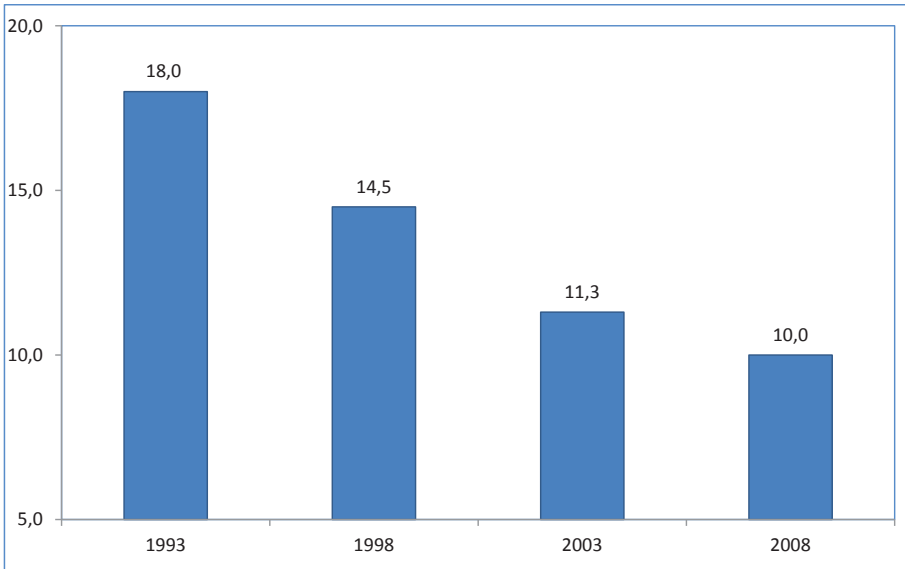
Figure 5.10. International Comparison of Cesarean Sections among All Births, (%), 2011



Source: Public Health Institution of Turkey, WHO World Health Statistics 2013

Note: Turkey's data belongs to 2012

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



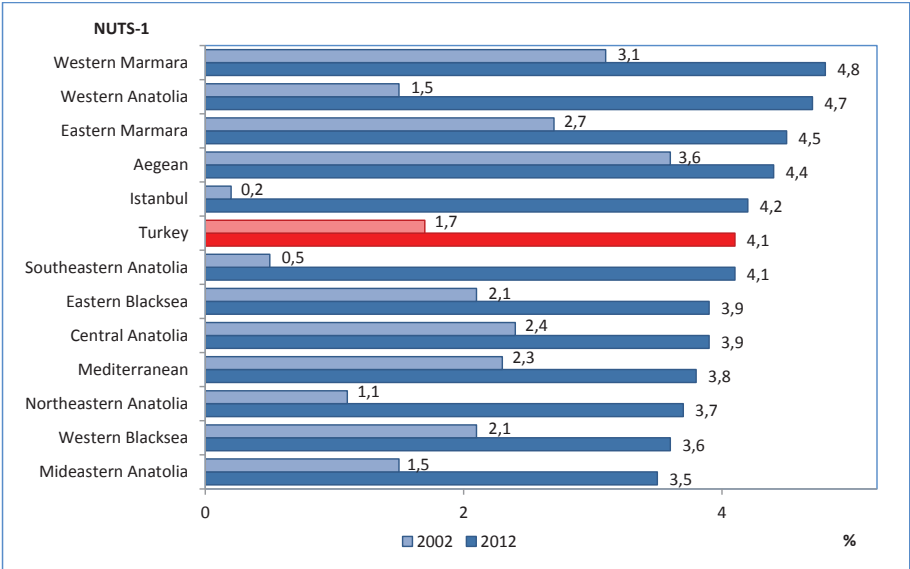
Source: TDHS, 1993, 1998, 2003, 2008

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

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

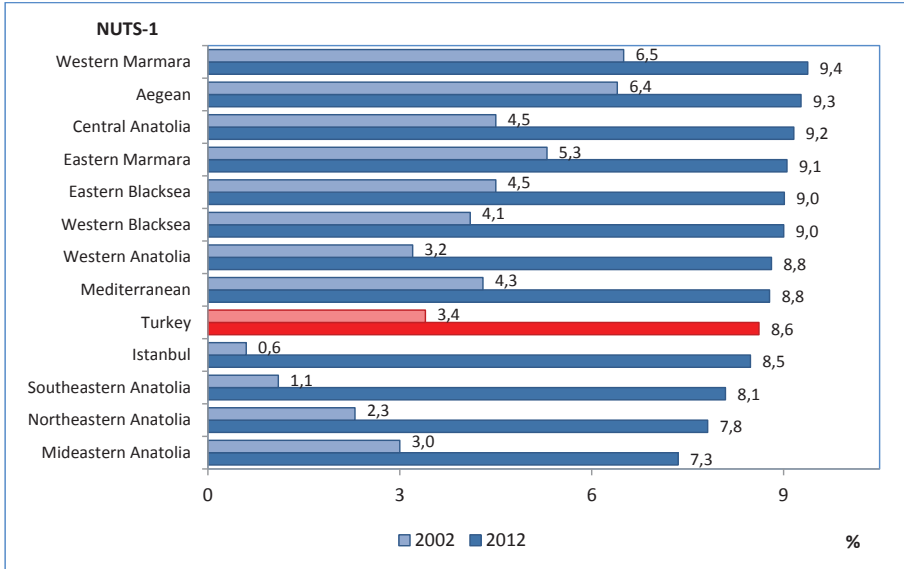
Source: Public Health Institution of Turkey

Figure 5.12. Average Number of Follow-Ups per Pregnant by NUTS-1, 2002, 2012



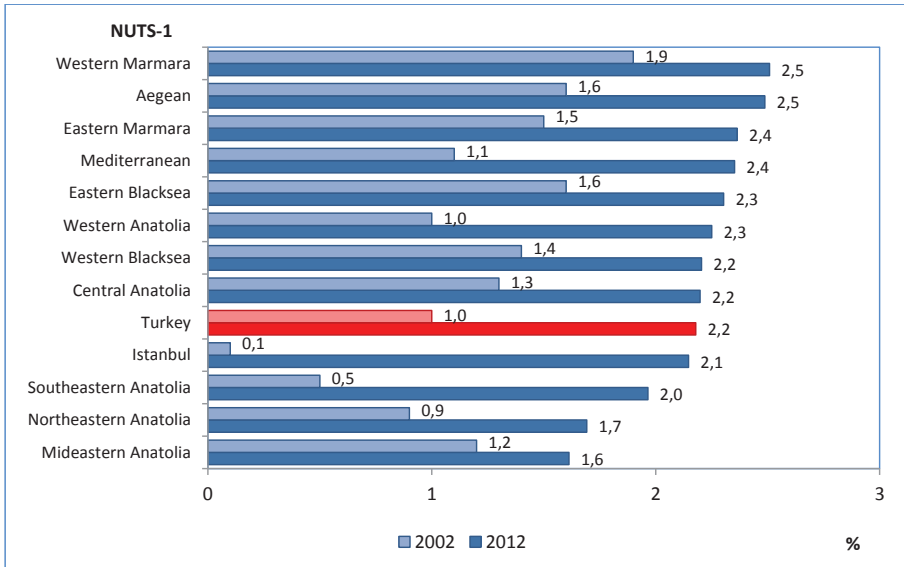
Source: Public Health Institution of Turkey

Figure 5.13. Average Number of Follow-Ups per Infant by NUTS-1, 2002, 2012



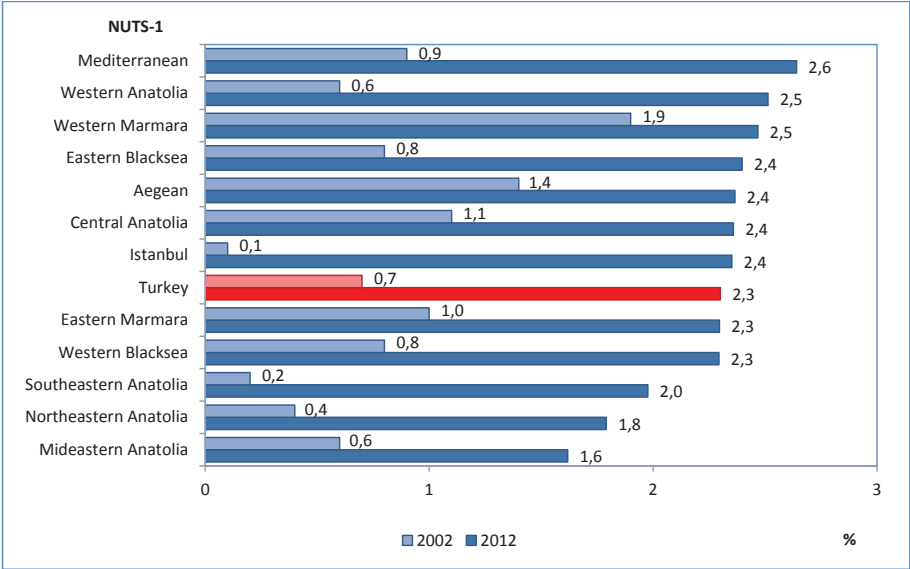
Source: Public Health Institution of Turkey

Figure 5.14. Average Number of Follow-Ups per Child by NUTS-1, 2002, 2012



Source: Public Health Institution of Turkey

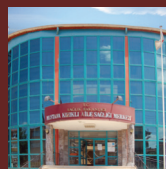
Figure 5.15. Average Number of Follow-Ups per Puerperant Women by NUTS-1, 2002, 2012



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 + IPA + Hib (5 in one vaccine).
- CPV 3 vaccination started in November 2008.
- 5-component Combined Vaccine (DaPT+IPV+Hib) is operational since 2009
- The population that was used to calculate the vaccination rates is the target population that was calculated by the Ministry of Health.

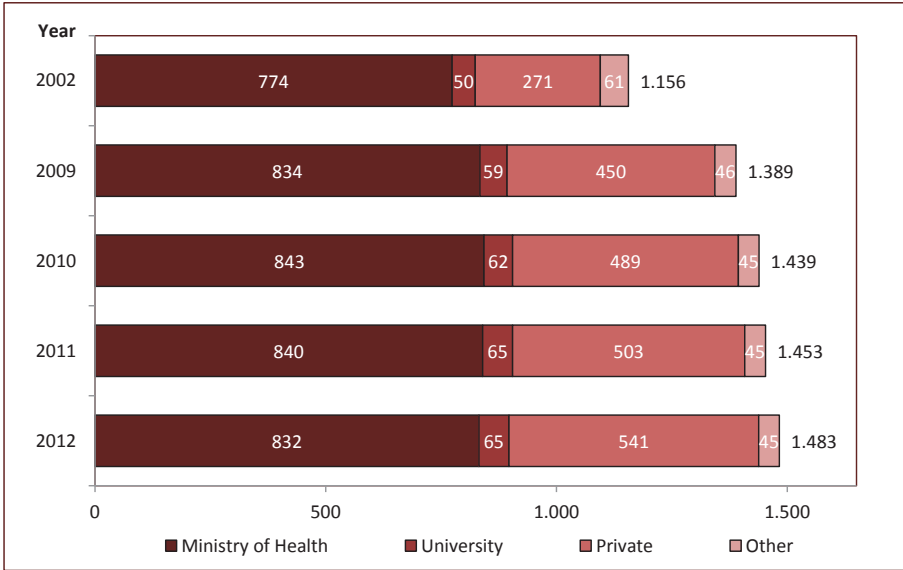


Chapter 6

Health Care Facilities and Infrastructures

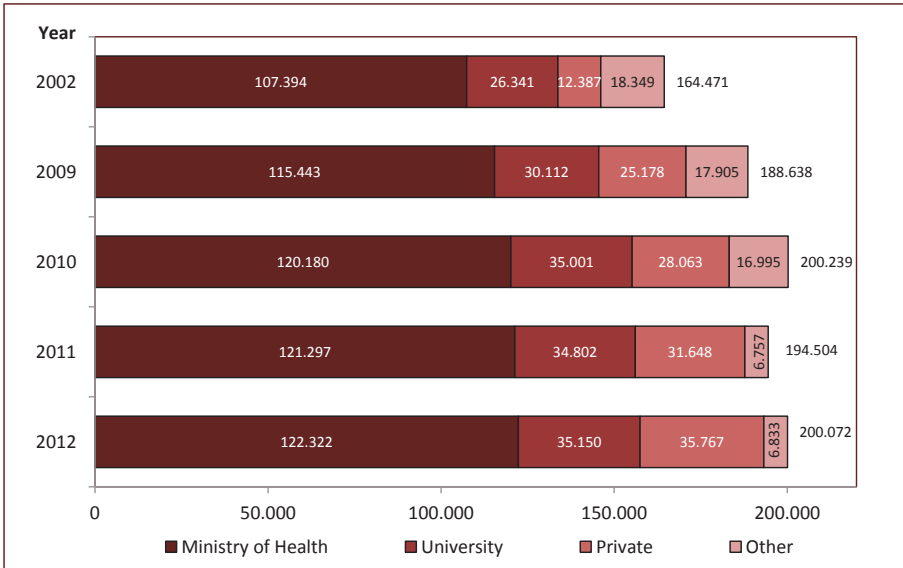
Health Care Facilities
and Infrastructures

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



Source: General Directorate for Health Services

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



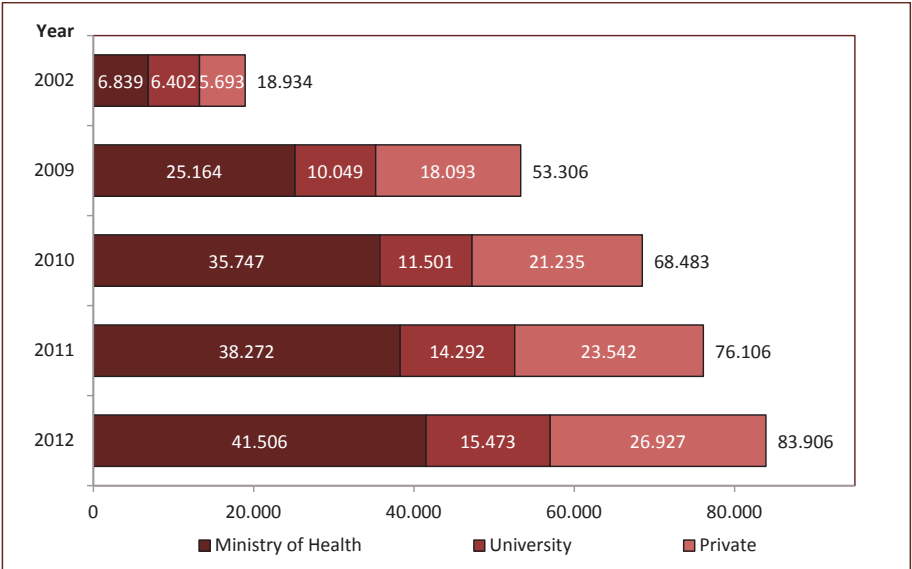
Source: General Directorate for Health Services

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

Branches	Hospital	Bed
General Hospital	1.341	176.943
Obstetric and Child Hospital	43	7.452
Ophthalmology Hospital	26	604
Chest Diseases Hospital	15	4.111
Physical Treatment and Rehabilitation Center	15	2.009
Psychiatry Hospital	11	4.393
Dental Hospital	8	96
Cardiovascular Diseases Centers	6	836
Child Diseases Hospital	5	1.729
Bone Diseases Hospital	3	585
Occupational Diseases Hospital	2	156
Oncology Hospital	2	910
Surgery Hospital	1	70
Veneral Diseases Hospital	1	31
Lepra Hospital	1	50
Orthopedics and Traumatology Hospital	1	29
Hospital for Children with Leukemia	1	14
Spastic Children's Hospital and Rehab Center	1	54
Total	1.483	200.072

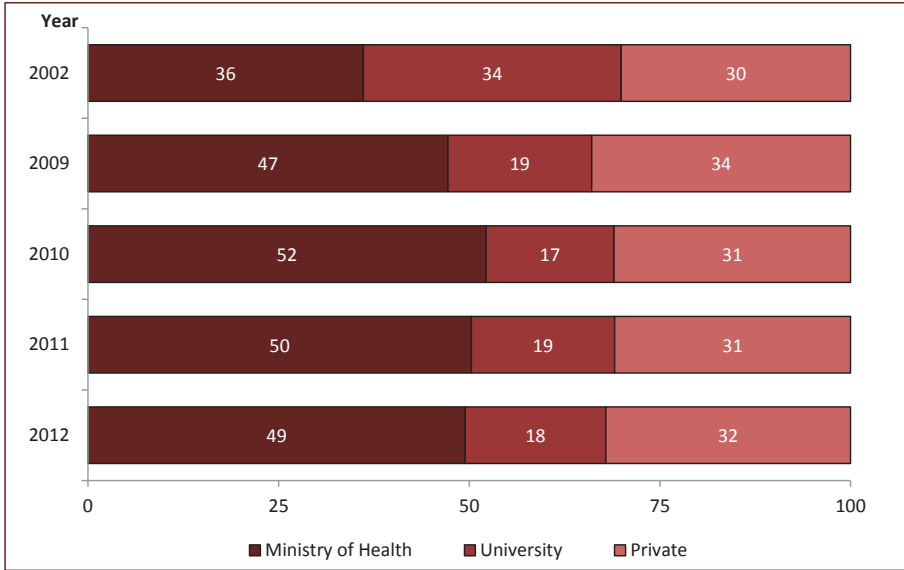
Source: General Directorate for Health Services

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



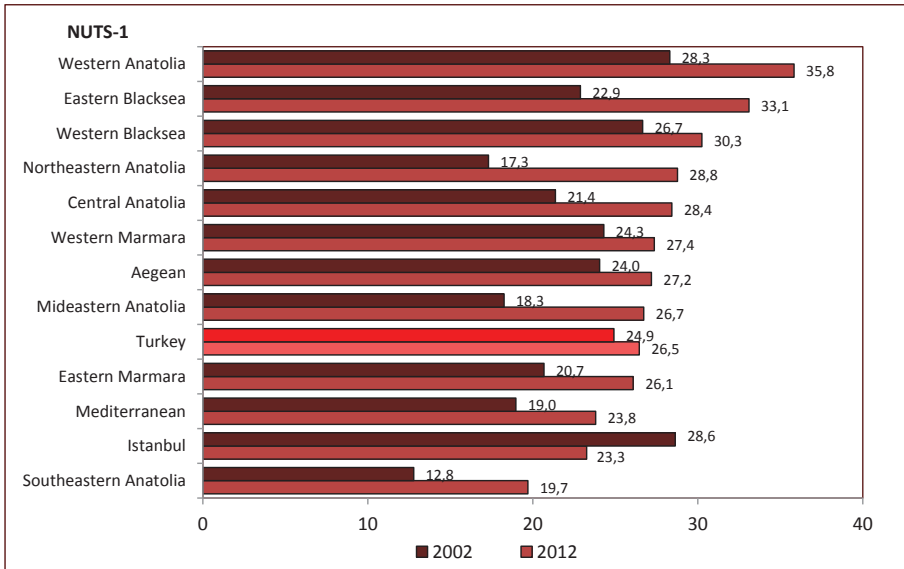
Source: General Directorate for Health Services

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



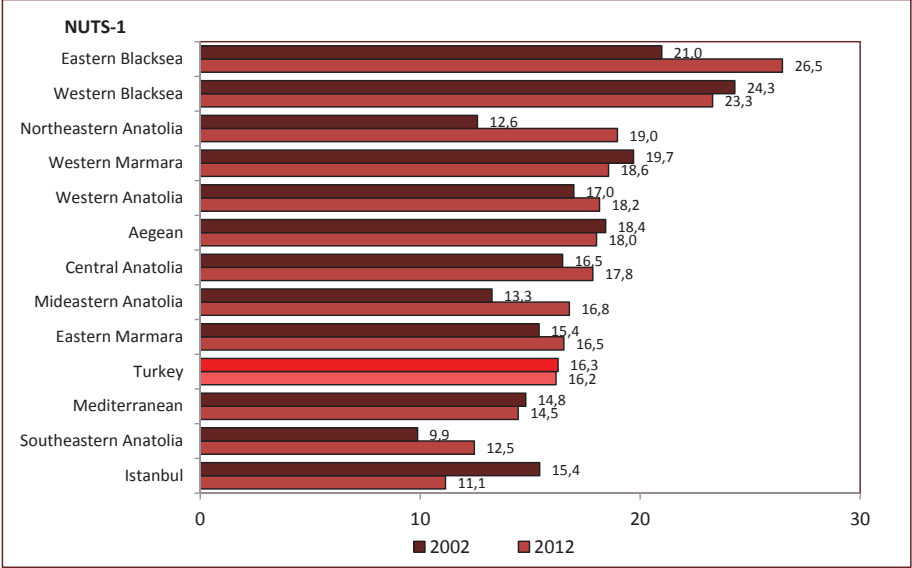
Source: General Directorate for Health Services

Figure 6.5. Number of Hospital Beds per 10.000 Population by Nuts-1, All Sectors, 2002, 2012



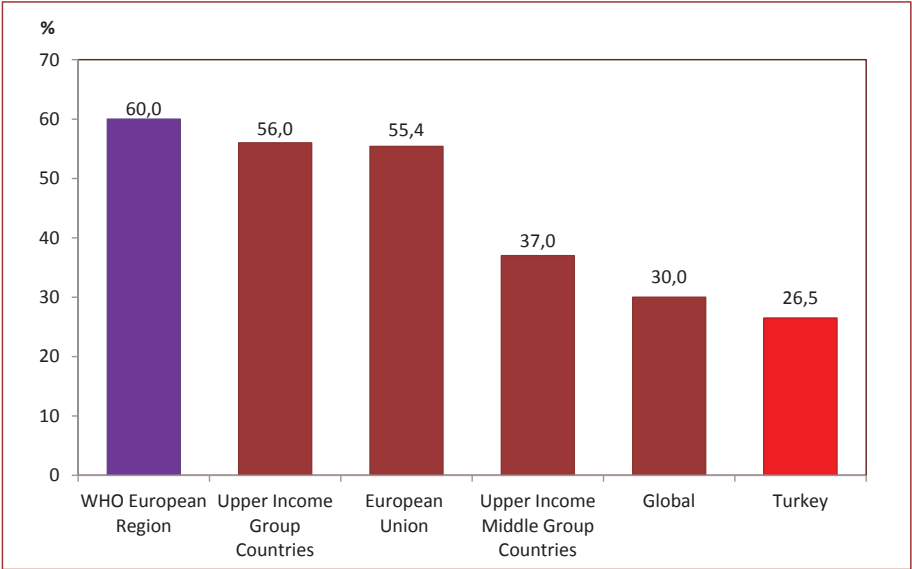
Source: General Directorate for Health Services

Figure 6.6. Number of Hospital Beds per 10.000 Population by Nuts-1, Ministry of Health, 2002, 2012



Source: General Directorate for Health Services

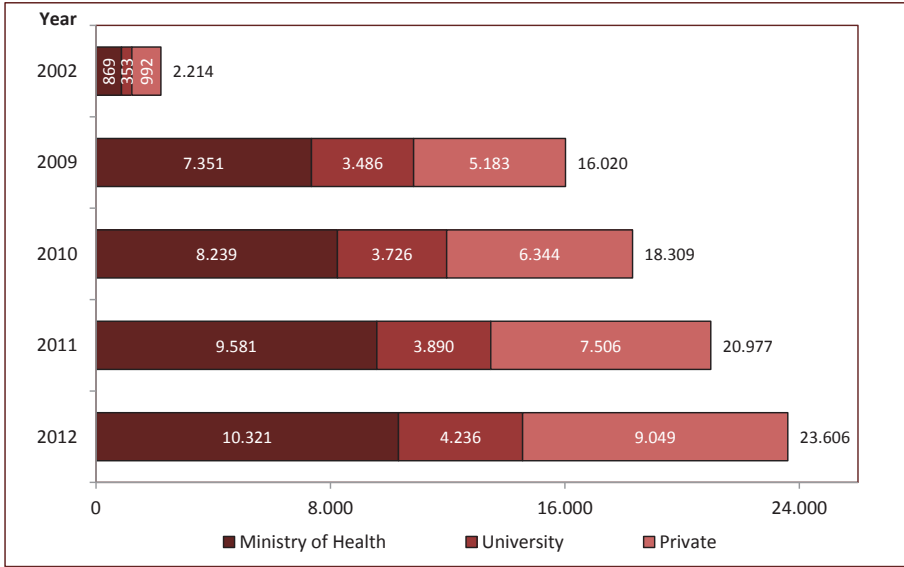
Figure 6.7. International Comparison of Number of Hospital Beds per 10.000 Population, 2011



Source: General Directorate for Health Services, WHO World Health Statistics 2013

Note: Turkey's data belongs to 2012

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



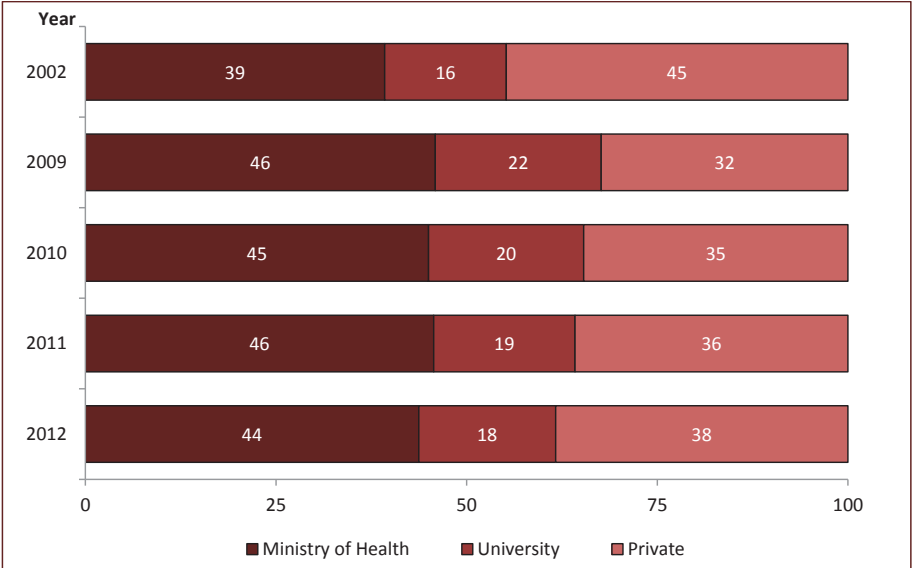
Source: General Directorate for Health Services

Table 6.2. Number of Intensive Care Beds by Types and Sectors , 2012, Turkey

	Ministry of Health	University	Private	Total
Adult	6.735	2.920	5.569	15.224
Child	472	372	46	890
Neonatal	3.114	944	3.434	7.492
Total	10.321	4.236	9.049	23.606

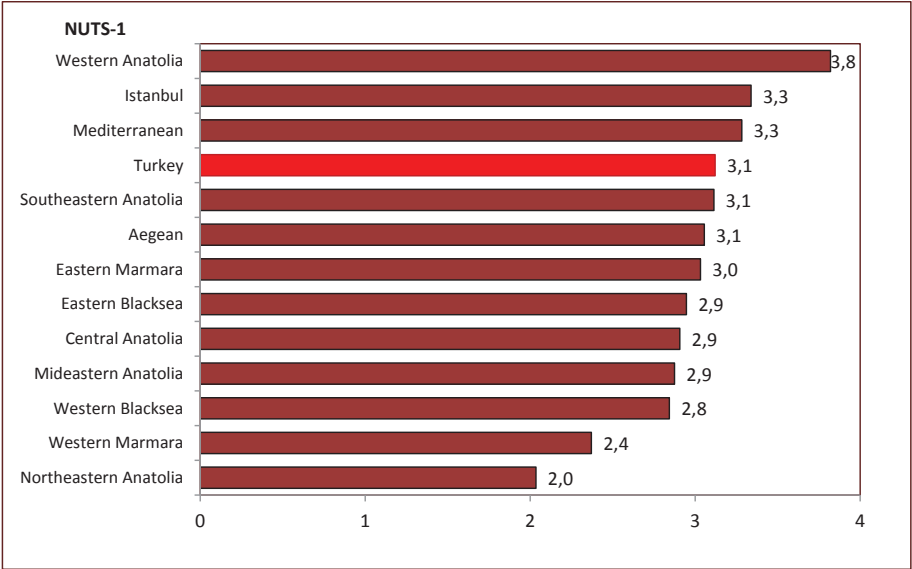
Source: General Directorate for Health Services

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



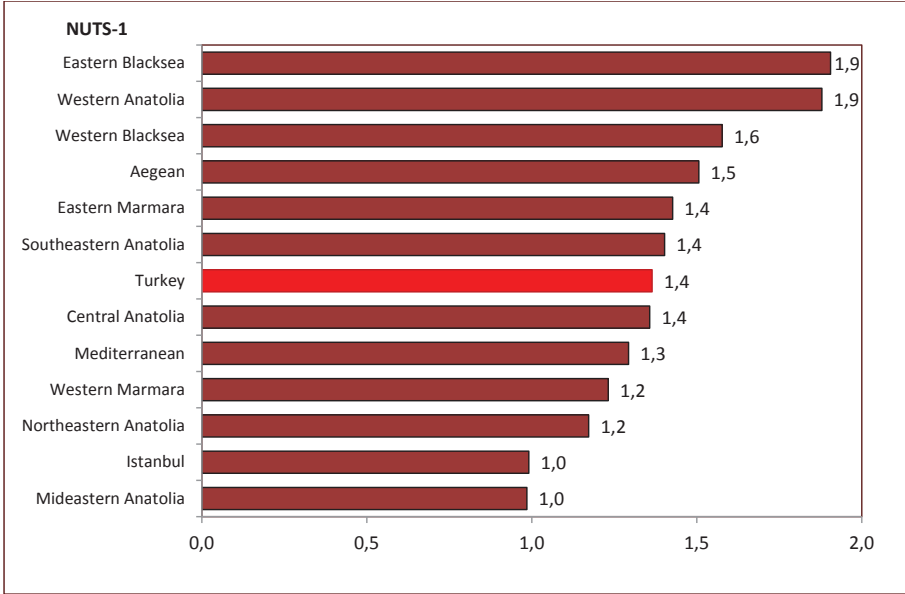
Source: General Directorate for Health Services

Figure 6.10. Number of Intensive Care Unit Beds per 10.000 Population by NUTS-1, All Sectors, 2012



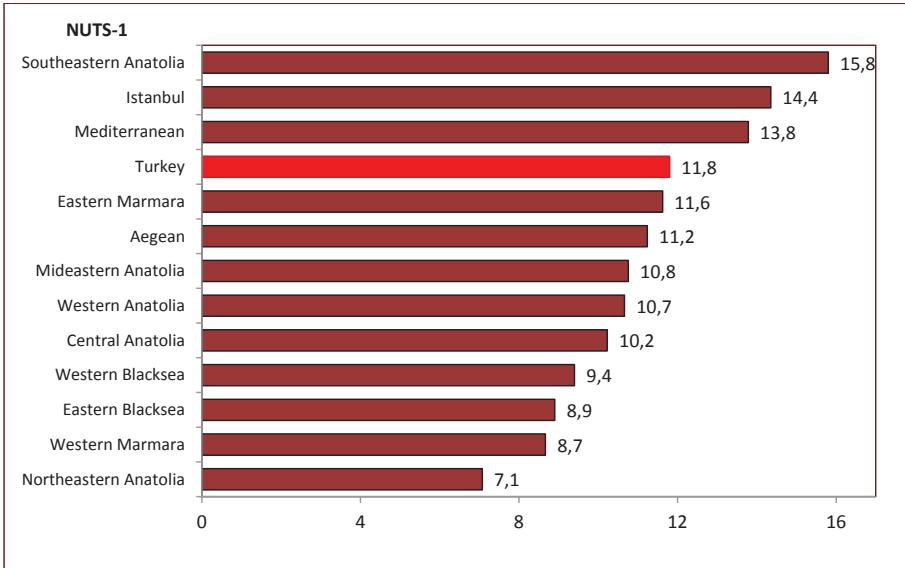
Source: General Directorate for Health Services

Figure 6.11. Number of Intensive Care Unit Beds per 10.000 Population by NUTS-1, Ministry of Health, 2012



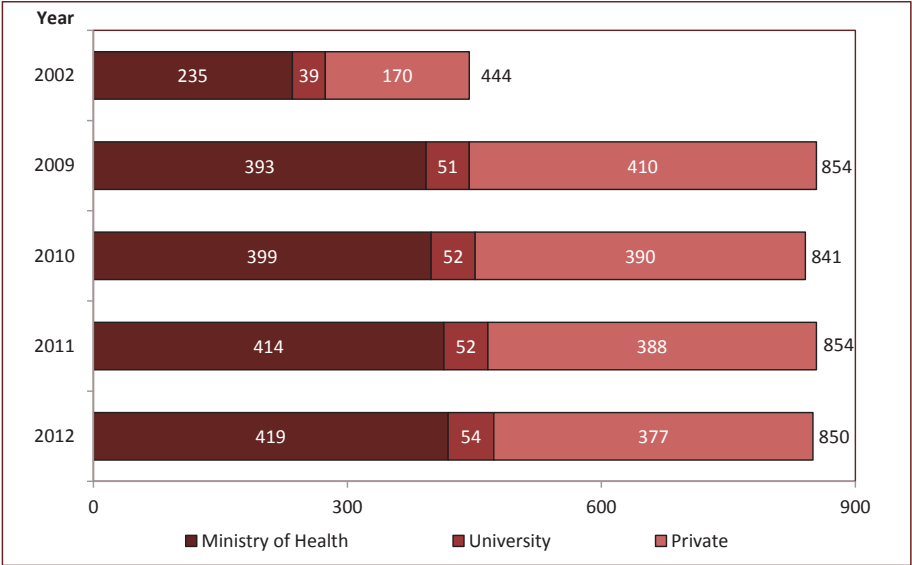
Source: General Directorate for Health Services

Figure 6.12. Proportion of Intensive Care Unit Beds to All Beds by NUTS-1, (%), All Sectors, 2012



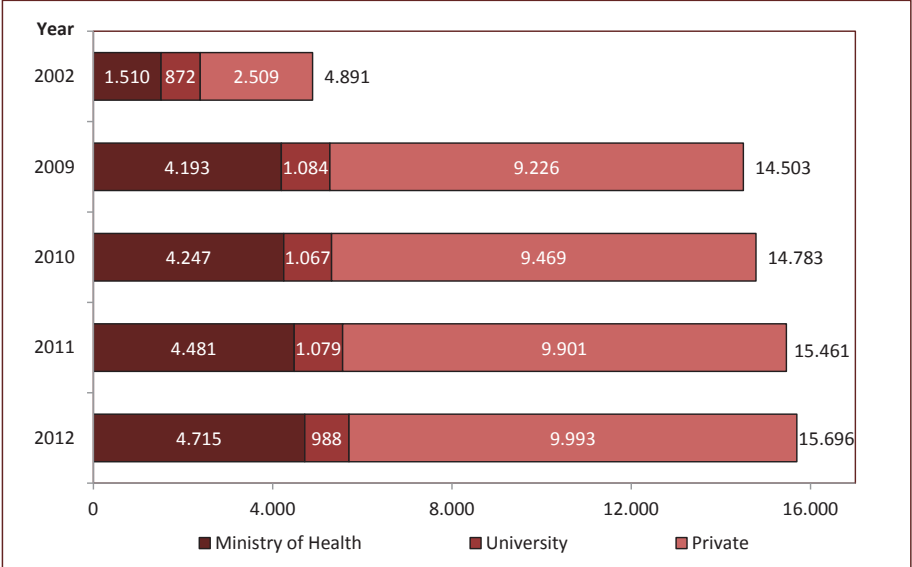
Source: General Directorate for Health Services

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



Source: General Directorate for Health Services

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



Source: General Directorate for Health Services

Table 6.3. Actively Used Hemodialysis Devices per 1.000.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Western Blacksea	118,2	16,1	139,4	273,7
Eastern Blacksea	153,2	4,7	99,0	256,9
Western Anatolia	41,6	37,5	170,7	249,8
Aegean	63,7	13,3	172,0	249,0
Central Anatolia	79,9	10,9	152,1	242,9
Eastern Marmara	69,3	12,2	146,4	227,8
Western Marmara	75,7	5,5	130,2	211,5
Turkey	62,3	13,1	132,1	207,5
Mediterranean	70,4	11,3	122,5	204,2
Istanbul	20,4	6,6	169,1	196,1
Northeastern Anatolia	109,6	9,4	30,5	149,6
Mideastern Anatolia	76,1	17,0	41,8	135,0
Southeastern Anatolia	42,5	8,8	51,4	102,7

Source: General Directorate for Health Services

Table 6.4. Number of Devices in Health Care Facilities by Years, Turkey

	Ministry of Health	University	Private	Total
MRI	310	89	522	921
CT	448	122	572	1.142
Ultrasound	2.348	384	1.508	4.240
Doppler Ultrasonography	1.218	302	943	2.463
ECO	587	188	592	1.367
Mammography	353	77	506	936
X-ray	3.554	2.165	1.878	7.597

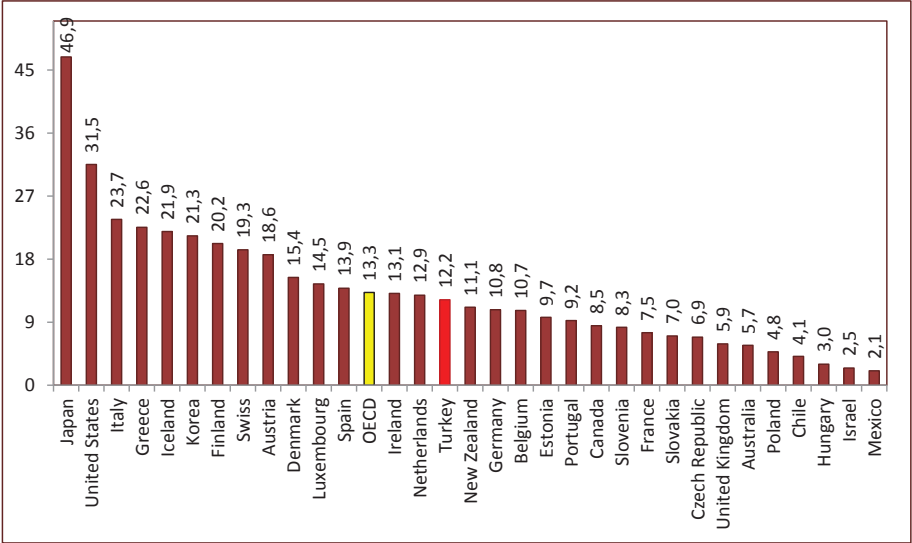
Source: General Directorate for Health Services

Table 6.5. Number of MRI Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2012

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

Source: General Directorate for Health Services

Figure 6.15. International Comparison of Number of MRI Devices in Inpatient Health Care Facilities per 1.000.000 Population, 2011



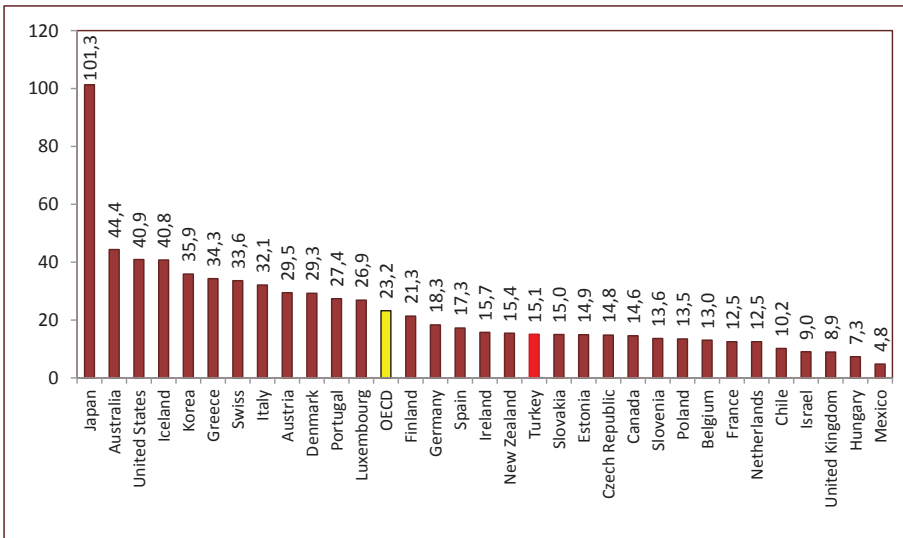
Source: General Directorate for Health Services, OECD Health Data 2013
Note: Turkey's data belongs to 2012

Table 6.6. Number of CT Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Istanbul	4,6	1,2	13,1	18,8
Western Anatolia	6,5	4,0	6,6	17,1
Western Marmara	7,7	1,2	7,4	16,3
Aegean	7,7	2,0	6,1	15,8
Turkey	5,9	1,6	7,6	15,1
Western Blacksea	8,7	1,3	4,9	14,9
Eastern Blacksea	8,6	0,8	5,5	14,9
Mediterranean	4,7	1,7	7,3	13,6
Mideastern Anatolia	5,6	1,1	6,9	13,6
Central Anatolia	4,9	1,8	6,2	13,0
Eastern Marmara	4,7	1,0	7,2	12,9
Northeastern Anatolia	7,2	1,8	3,1	12,1
Southeastern Anatolia	5,3	0,9	5,7	11,8

Source: General Directorate for Health Services

Figure 6.16. International Comparison of Number of CT Devices in Inpatient Health Care Facilities per 1.000.000 Population, 2011



Source: General Directorate for Health Services, OECD Health Data 2013

Note: Turkey's data belongs to 2012

Table 6.7. Number of Ultrasound Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Central Anatolia	36,9	10,4	22,1	69,3
Western Anatolia	36,7	9,5	16,8	63,0
Northeastern Anatolia	42,7	9,0	7,2	58,8
Western Blacksea	43,7	2,5	12,5	58,7
Western Marmara	35,7	7,7	14,2	57,6
Eastern Blacksea	40,1	3,1	14,1	57,4
Aegean	36,3	4,2	16,1	56,5
Istanbul	21,7	3,2	31,4	56,3
Turkey	31,0	5,1	19,9	56,1
Mediterranean	30,0	3,8	21,5	55,4
Southeastern Anatolia	27,4	6,3	19,7	53,4
Mideastern Anatolia	31,1	6,7	13,0	50,8
Eastern Marmara	21,5	2,0	20,1	43,6

Source: General Directorate for Health Services

Table 6.8. Number of Doppler Ultrasound Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Western Anatolia	26,3	7,9	11,0	45,2
Istanbul	12,7	4,3	19,4	36,4
Eastern Marmara	19,0	2,7	13,5	35,1
Mideastern Anatolia	16,5	2,1	14,4	33,0
Eastern Blacksea	21,2	0,8	11,0	33,0
Central Anatolia	14,3	4,4	14,0	32,7
Turkey	16,1	4,0	12,5	32,6
Western Marmara	16,3	4,0	10,8	31,1
Aegean	13,3	4,6	10,9	28,8
Western Blacksea	19,4	2,5	6,7	28,5
Mediterranean	14,7	3,0	10,4	28,1
Southeastern Anatolia	12,7	4,0	10,1	26,8
Northeastern Anatolia	15,3	4,0	4,9	24,3

Source: General Directorate for Health Services

Table 6.9. Number of ECO Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Western Anatolia	9,2	6,1	8,7	24,0
Istanbul	7,4	2,2	12,6	22,2
Eastern Blacksea	14,9	1,2	5,1	21,2
Central Anatolia	8,6	3,1	8,3	20,0
Turkey	7,8	2,5	7,8	18,1
Eastern Marmara	6,9	2,3	7,7	16,9
Mediterranean	6,7	2,4	7,3	16,3
Western Blacksea	7,8	2,7	5,6	16,1
Aegean	7,2	1,9	7,0	16,1
Western Marmara	7,7	1,8	6,5	16,0
Southeastern Anatolia	7,5	1,3	5,8	14,6
Mideastern Anatolia	6,4	1,9	5,9	14,1
Northeastern Anatolia	9,0	2,2	1,3	12,6

Source: General Directorate for Health Services

Table 6.10. Number of Mammography Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2012

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

Source: General Directorate for Health Services

Table 6.11. Number of X-ray Devices in Inpatient Health Care Facilities per 1.000.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Mediterranean	37,6	161,9	23,8	223,3
Western Marmara	109,9	6,8	19,4	136,1
Mideastern Anatolia	86,8	5,3	22,4	114,5
Turkey	47,0	28,6	24,8	100,5
Northeastern Anatolia	82,7	10,8	6,3	99,7
Central Anatolia	56,8	10,6	23,6	91,1
Western Blacksea	60,9	11,2	18,3	90,3
Eastern Blacksea	64,8	5,9	17,3	88,0
Western Anatolia	45,1	20,1	21,5	86,7
Aegean	44,4	11,7	23,1	79,1
Istanbul	27,2	6,1	42,4	75,6
Eastern Marmara	44,3	6,8	23,1	74,2
Southeastern Anatolia	27,4	5,7	17,5	50,5

Source: General Directorate for Health Services

Table 6.12. Number of Private Clinics, Specialty Branch Centers and Private Outpatient Clinics by NUTS-1, 2012

NUTS-1	Private Clinics and Specialty Branch Centers	Private Outpatient Clinics
Northeastern Anatolia	4	1
Mideastern Anatolia	24	5
Southeastern Anatolia	105	6
Istanbul	309	199
Western Marmara	21	10
Aegean	147	78
Eastern Marmara	79	33
Western Anatolia	129	74
Mediterranean	110	50
Central Anatolia	19	8
Western Blacksea	38	12
Eastern Blacksea	17	5
	1.002	481

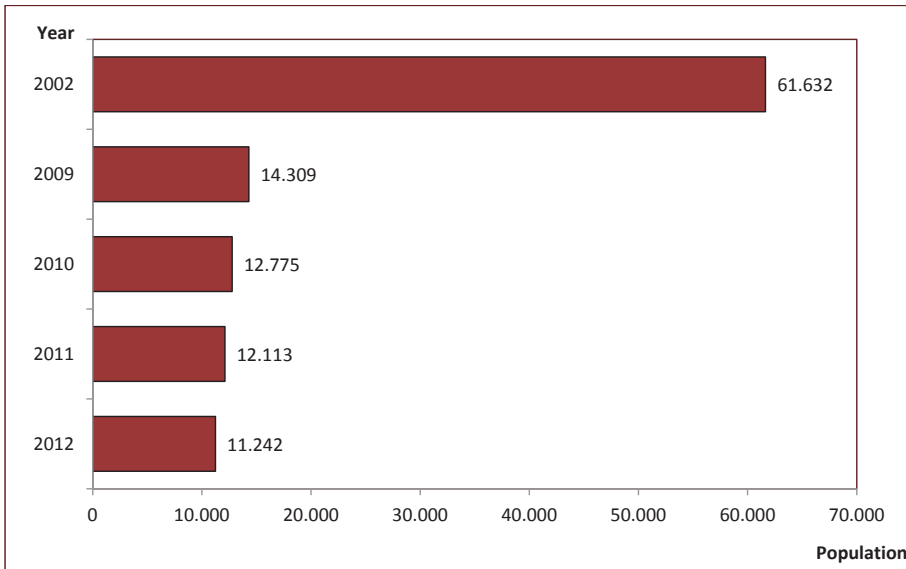
Source: General Directorate for Health Services

Table 6.13. 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	3.773	-	-	39	411	-	-	160	4.184
Oral and Dental Health Polyclinic	166	437	-	-	-	-	-	-	166	437
Dental Treatment and Prosthetic Center	28	302	-	-	-	-	-	-	28	302
Dental Hospital	4	434	-	-	3	67	-	-	7	501
Dental Training Hospital	1	91	22	2.717	-	-	-	-	23	2.808
Dental Polyclinic (Hospital)	669	1.690	26	256	268	375	42	191	1.005	2.512
Dental Polyclinic	-	-	-	-	1.009	3.621	-	-	1.009	3.621
Total	989	6.727	48	2.973	1.319	4.474	42	191	2.398	14.365

Source: General Directorate for Health Services

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



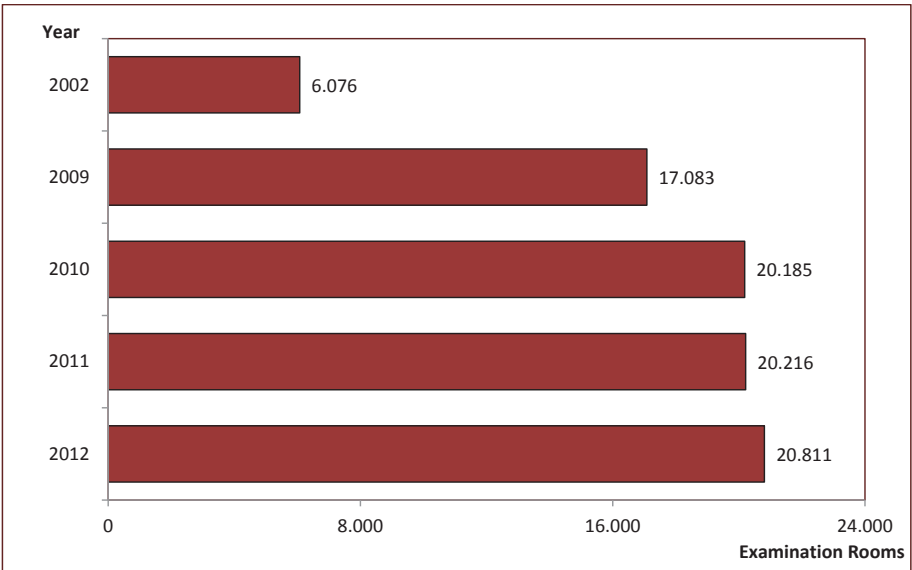
Source: General Directorate for Health Services

Table 6.14. MoH-Affiliated Primary Health Care Facilities by Years, Turkey

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

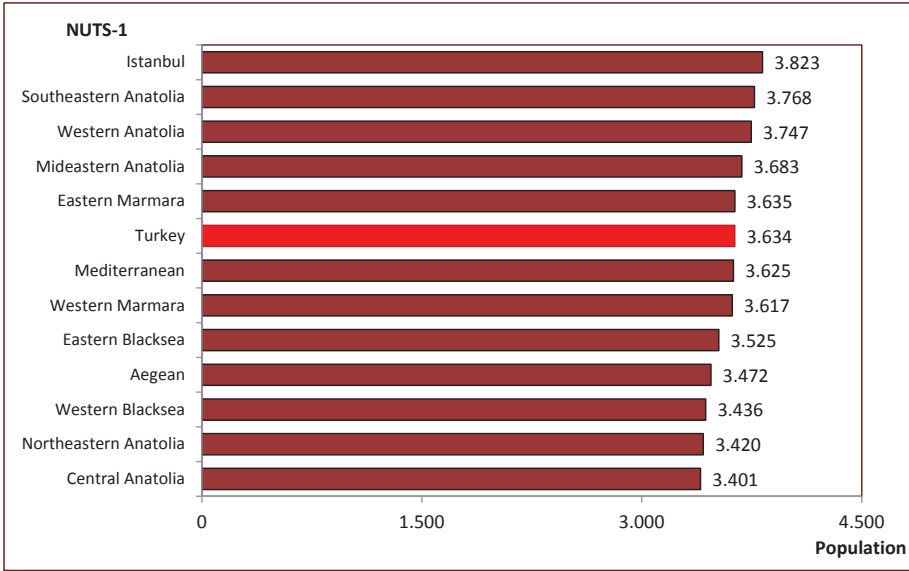
Source: Public Health Institution of Turkey, General Directorate for Emergency Health Services

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



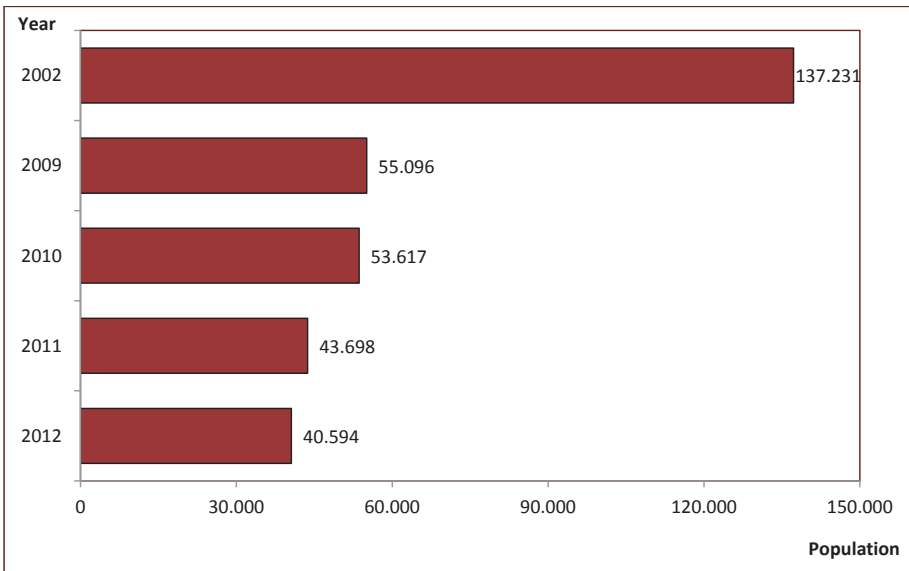
Source: Public Health Institution of Turkey

Figure 6.19. Population per Actively Working Family Medicine by NUTS-1, 2012



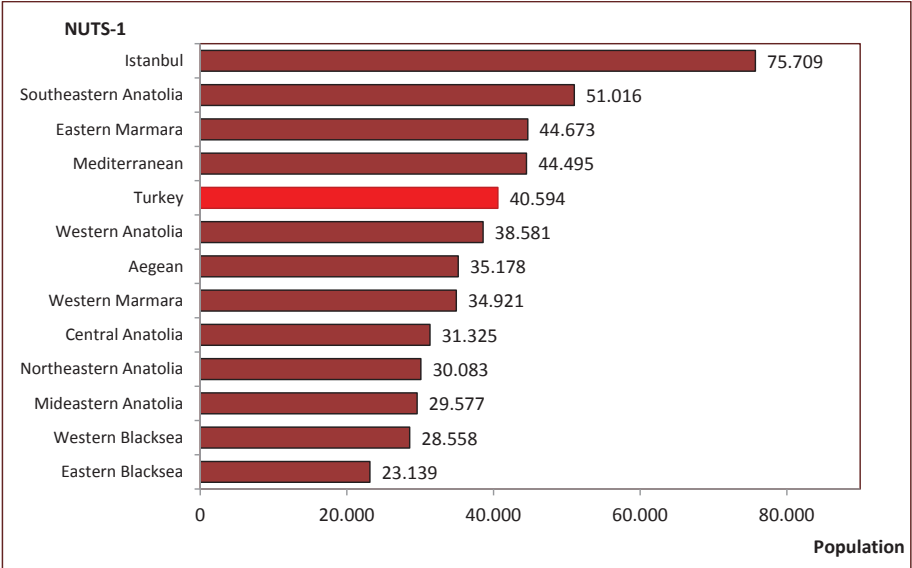
Source: Public Health Institution of Turkey

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



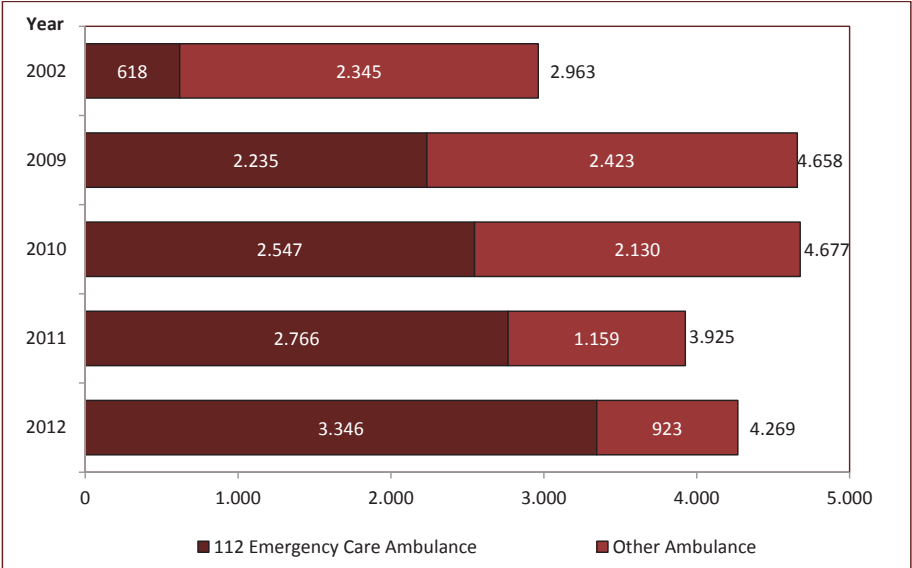
Source: General Directorate for Emergency Health Services

Figure 6.21. Population per 112 Emergency Aid Station by NUTS-1, Ministry of Health, 2012



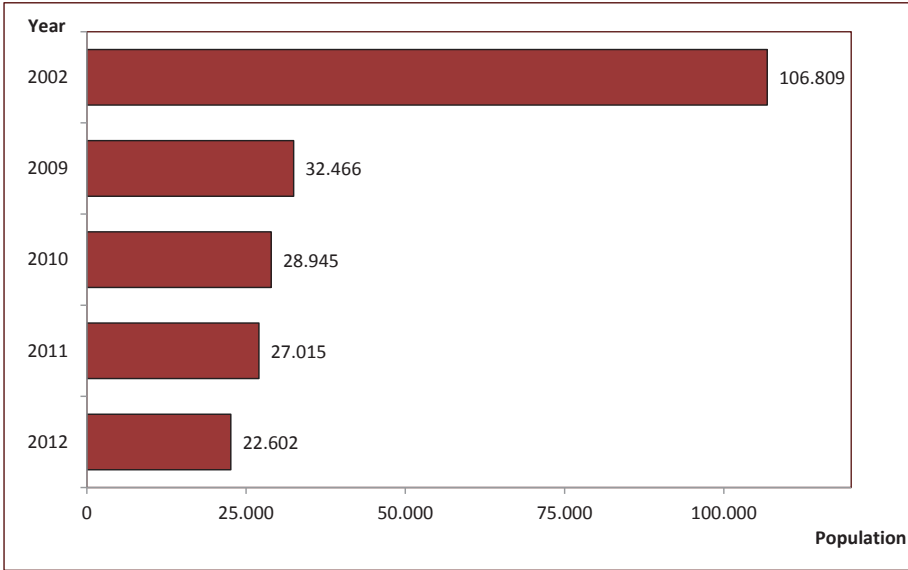
Source: General Directorate for Emergency Health Services

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



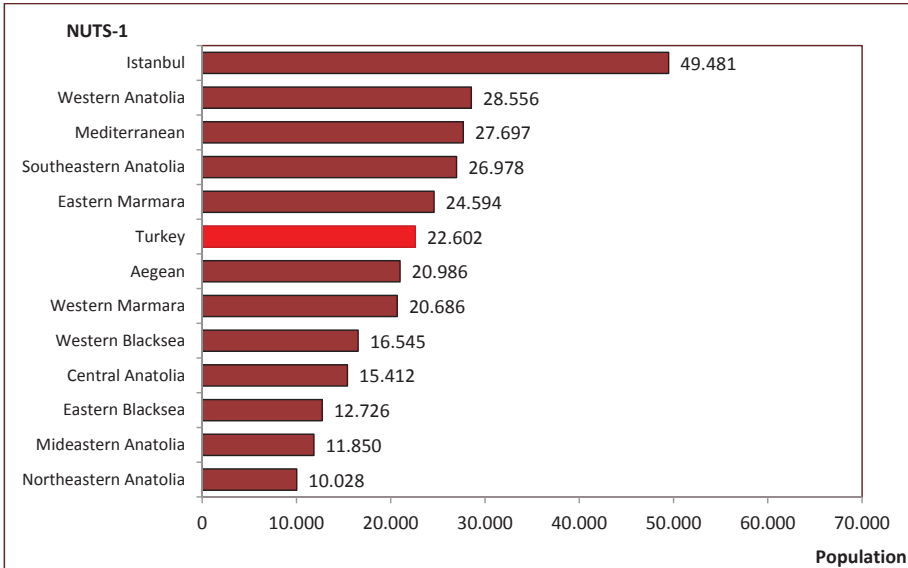
Source: General Directorate for Emergency Health Services

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



Source: General Directorate for Emergency Health Services

Figure 6.24. Population per 112 Emergency Ambulance by NUTS-1, Ministry of Health, 2012



Source: General Directorate for Emergency Health Services

Table 6.15. Number of Vehicles and Transferred Patients by Ambulance Types, Ministry of Health, Turkey, 2012

	Number of Vehicle	Number of Transferred Patients
Ambulance Helicopter	17	3.155
Air Ambulance	4	1.380
Snow Track Ambulance	291	2.270
Sea Ambulance	4	440

Source: General Directorate for Emergency Health Services

Table 6.16. Some Health Indicators by Provinces, Turkey, 2012

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	28	6.236	29,3	2.495	888	599	3.549	39	54.503	64	33.213
Adıyaman	9	939	15,8	431	123	174	3.421	15	39.684	27	22.047
Afyonkarahisar	21	1.941	27,6	1.063	204	205	3.434	28	25.141	63	11.174
Ağrı	11	796	14,4	318	41	148	3.732	8	69.051	33	16.740
Amasya	7	870	27	399	66	101	3.191	10	32.228	15	21.486
Ankara	80	18.608	37,5	6.246	1.942	1292	3.843	121	41.038	154	32.244
Antalya	42	4.908	23,5	2.754	658	556	3.764	37	56.555	63	33.215
Artvin	8	449	26,9	165	10	51	3.276	20	8.354	24	6.962
Aydın	22	2.655	26,4	1.207	297	284	3.544	21	47.931	35	28.758
Balıkesir	30	3.038	26,2	1.181	296	325	3.571	30	38.691	42	27.636
Bilecik	6	295	14,5	128	26	60	3.402	8	25.515	13	15.701
Bingöl	7	623	23,7	188	24	77	3.409	15	17.500	31	8.468
Bitlis	9	765	22,7	269	54	88	3.832	9	37.473	38	8.875
Bolu	11	1.414	50,3	850	122	87	3.231	12	23.423	38	7.397
Burdur	8	682	26,8	256	71	79	3.220	16	15.896	24	10.598
Bursa	40	6.609	24,6	2.843	803	738	3.643	50	53.763	61	44.068
Çanakkale	15	1.326	26,9	344	75	135	3.657	20	24.685	27	18.285
Çankırı	9	439	23,8	230	34	52	3.546	14	13.172	30	6.147
Çorum	16	1.467	27,7	490	114	166	3.193	18	29.443	31	17.096
Denizli	23	2.143	22,5	1.116	303	276	3.444	28	33.948	45	21.123
Diyarbakır	24	4.498	28,3	1.924	840	424	3.755	32	49.755	62	25.680
Edirne	10	1.916	47,9	644	146	114	3.506	15	26.647	28	14.275
Elazığ	13	2.901	51,6	935	326	171	3.291	19	29.616	38	14.808
Erzincan	12	644	29,6	715	39	69	3.158	11	19.808	35	6.225
Erzurum	23	3.523	45,3	1.970	261	239	3.256	26	29.931	70	11.117
Eskişehir	19	3.487	44,2	1.099	366	224	3.526	27	29.250	43	18.366
Gaziantep	24	4.342	24,1	2.044	717	460	3.912	26	69.214	45	39.990
Giresun	15	1.269	30,2	634	115	121	3.467	19	22.082	31	13.534
Gümüşhane	6	334	24,7	166	21	42	3.219	9	15.024	27	5.008
Hakkari	4	383	13,7	277	36	64	4.375	15	18.665	33	8.484
Hatay	22	2.687	18,1	1.501	420	398	3.728	24	61.820	42	35.326
İsparta	17	2.063	49,5	830	220	130	3.205	16	26.041	34	12.255
Mersin	24	3.279	19,5	756	519	450	3.740	48	35.059	61	27.588
İstanbul	223	32.235	23,3	14.770	4.626	3624	3.823	183	75.709	280	49.481
İzmir	56	11.414	28,5	3.780	1.391	1136	3.526	90	44.505	130	30.811
Kars	7	757	24,8	385	58	86	3.544	10	30.482	28	10.886
Kastamonu	19	1.254	34,9	379	59	103	3.493	23	15.644	35	10.280
Kayseri	31	4.027	31,6	1.476	517	373	3.418	24	53.124	58	21.982
Kırklareli	8	791	23,2	187	59	94	3.630	12	28.435	33	10.340
Kırşehir	6	498	22,5	381	52	66	3.352	9	24.579	25	8.848
Kocaeli	24	3.887	23,8	2.186	531	427	3.828	23	71.074	59	27.707
Konya	38	6.786	33,1	2.488	749	569	3.607	56	36.648	79	25.978
Kütahya	13	1.713	29,9	646	144	174	3.296	19	30.180	40	14.336
Malatya	21	2.300	30,2	849	274	208	3.665	24	31.765	53	14.384
Manisa	30	3.889	28,9	1.297	337	398	3.382	42	32.051	62	21.712

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

Table 6.16. Some Health Indicators by Provinces, Turkey, 2012- 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	17	2.074	19,5	909	253	298	3.568	25	42.527	42	25.314
Mardin	12	968	12,5	551	90	193	4.005	15	51.535	27	28.631
Muğla	23	1.858	21,8	724	195	237	3.591	41	20.760	65	13.095
Muş	7	608	14,7	207	38	112	3.690	8	51.658	24	17.219
Nevşehir	7	612	21,5	443	56	85	3.355	10	28.519	19	15.010
Niğde	7	679	20	211	76	102	3.336	16	21.267	27	12.603
Ordu	18	1.962	26,5	540	203	188	3.943	26	28.514	40	18.534
Rize	7	1.002	30,9	734	86	94	3.448	14	23.154	34	9.534
Sakarya	20	1.700	18,8	1.213	159	253	3.566	19	47.488	35	25.779
Samsun	29	4.141	33,1	1.634	493	356	3.516	30	41.724	50	25.034
Siirt	11	621	20	225	38	77	4.037	12	25.907	30	10.363
Sinop	6	500	24,8	126	31	58	3.471	12	16.776	20	10.066
Sivas	21	2.402	38,5	877	193	177	3.523	25	24.941	59	10.568
Tekirdağ	19	1.815	21,3	826	194	230	3.706	16	53.270	27	31.567
Tokat	14	1.757	28,6	1.075	171	170	3.612	18	34.111	33	18.606
Trabzon	21	3.410	45	1.766	315	226	3.354	22	34.450	44	17.225
Tunceli	4	182	21,1	16	8	25	3.451	10	8.628	25	3.451
Şanlıurfa	20	2.527	14,3	1.007	404	470	3.749	30	58.736	42	41.954
Uşak	8	978	28,6	192	117	107	3.199	9	38.030	26	13.164
Van	18	2.277	21,6	1.570	320	275	3.825	27	38.962	75	14.026
Yozgat	16	988	21,8	223	56	134	3.382	15	30.214	22	20.601
Zonguldak	11	2.045	33,7	417	178	173	3.506	15	40.435	26	23.328
Aksaray	10	756	19,9	193	79	111	3.423	12	31.660	21	18.091
Bayburt	1	150	19,8	123	8	26	2.915	6	12.633	16	4.737
Karaman	5	601	25,5	179	80	75	3.139	11	21.402	21	11.211
Kırıkkale	6	992	36,1	126	91	85	3.232	12	22.894	19	14.459
Batman	11	1.042	19,5	617	184	153	3.492	10	53.421	21	25.438
Şırnak	8	583	12,5	494	61	125	3.736	10	46.698	28	16.678
Bartın	2	417	22,1	121	27	60	3.141	7	26.919	12	15.703
Ardahan	4	250	23,4	150	18	30	3.555	7	15.235	17	6.273
İğdır	4	284	14,9	78	28	53	3.593	6	31.735	23	8.279
Yalova	5	349	16,5	177	55	55	3.851	8	26.475	14	15.129
Karabük	6	673	29,9	131	102	66	3.411	10	22.515	19	11.850
Kilis	1	162	13	92	21	36	3.453	6	20.720	13	9.563
Osmaniye	9	957	19,4	461	126	141	3.490	11	44.740	17	28.949
Düzce	4	670	19,3	186	78	98	3.536	11	31.499	24	14.437
	1.483	200.072	26,5	83.906	23.606	20811	3.634	1.863	40.594	3.346	22.602

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

Explanations for Chapter 6

→ The data of the Ministry of National Defence (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 has been included within all of the data for 2012, and it has been shown in the Private Sector in terms of being comparable.

→ Tables and charts in which the number of hospitals is 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.

→ In tables regarding number of hospitals and beds by branches, the number of hospitals and beds owned by other public institutions and local administrations are included in the number of hospitals and beds of general hospitals

→ 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, open infant bed), in burn centers and burn unit rooms and skilled beds were included in Hospital Beds. Actual beds were used in all calculations related to the beds in institutions.

→ 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 number of skilled beds in other institutions (excluding the Ministry of National Defence) were included in the private sector

→ The population in 2002 is given by TURKSTAT only as the total population. Distribution of the population by NUTS-1 in 2002 was projected by taking the distribution of the results of the 2000 Population Census by NUTS-1 into consideration

→ The tables and graphs which show the number of Family Health Centers and Family Health Center examination rooms: the data for the years 2002-2006 include health centers, the data for the years 2007-2009 include health centers and family health centers, and the data for 2010 and 2011 family health centers and its 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

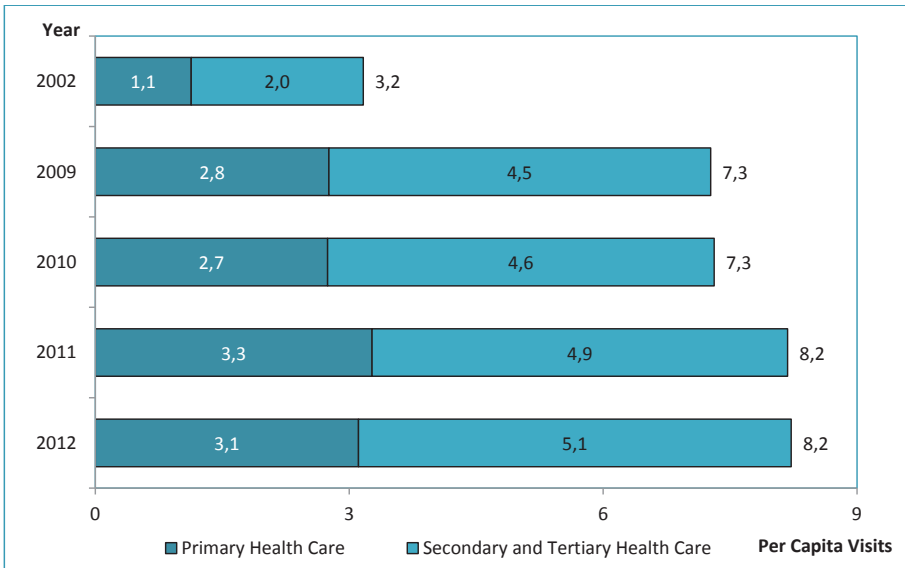
Utilization of Health
Care Services

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

	2002	2009	2010	2011	2012
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
Tuberculosis Control Dispensary	2.012.458	2.557.787	2.378.998	2.219.534	2.143.765
Mother and Child Health and Family Planning Center	2.980.481	5.707.593	3.831.859	944.842	630.583
Other Examinations Made by CHCs	-	-	-	-	10.035.342
Private Outpatient Clinics	731.132	2.387.515	2.497.352	882.973	655.432
Primary Care Facilities Total	74.827.588	200.221.251	202.313.421	244.346.102	235.137.151
Private Clinics and Specialty Branch Centers	9.824.802	32.082.953	33.788.328	29.040.707	32.012.211
Hospitals	124.313.659	295.262.190	302.984.218	337.849.536	354.636.935
Secondary and Tertiary Health Care Total	134.138.461	327.345.143	336.772.546	366.890.243	386.649.146
Total	208.966.049	527.566.394	539.085.967	611.236.345	621.786.297

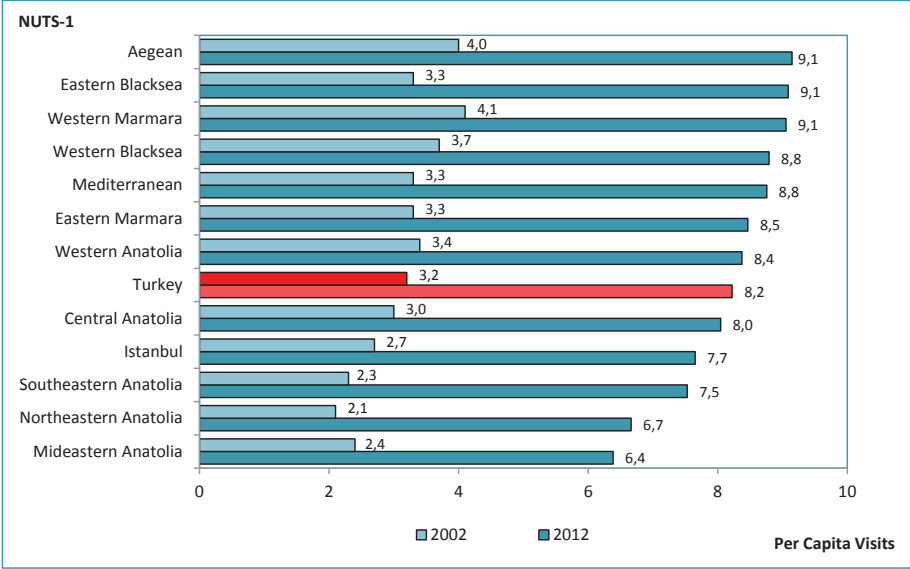
Source: Public Health Institution of Turkey, General Directorate for Health Services

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



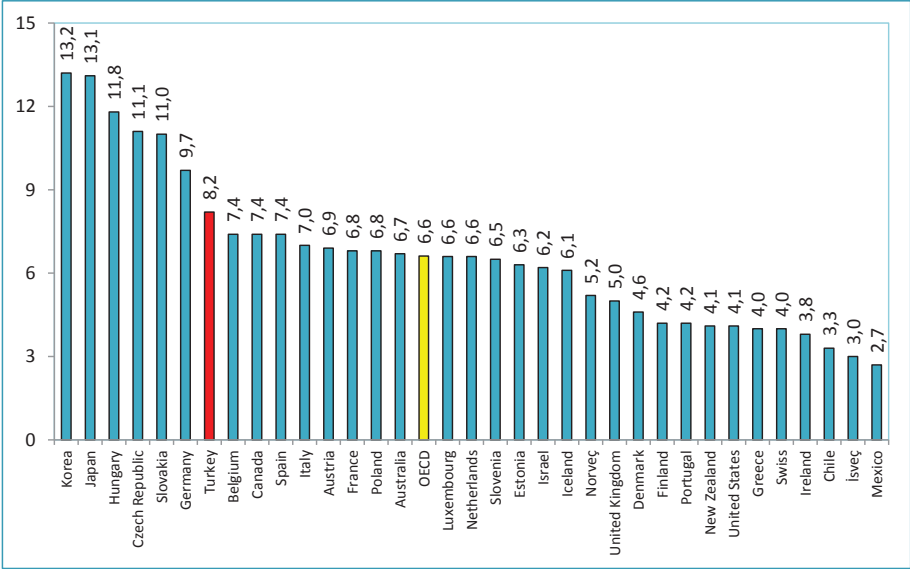
Source: Public Health Institution of Turkey, General Directorate for Health Services

Figure 7.2. Per Capita Visits to a Physician in Health Care Facilities by NUTS-1, All Sectors, 2002, 2012



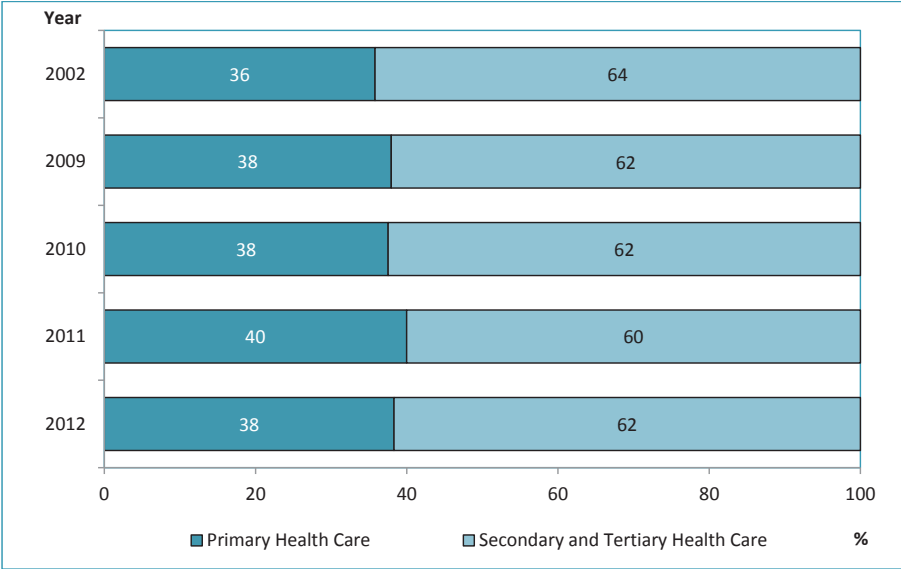
Source: Public Health Institution of Turkey, General Directorate for Health Services

Figure 7.3. International Comparison of Per Capita Visits to a Physician, 2011



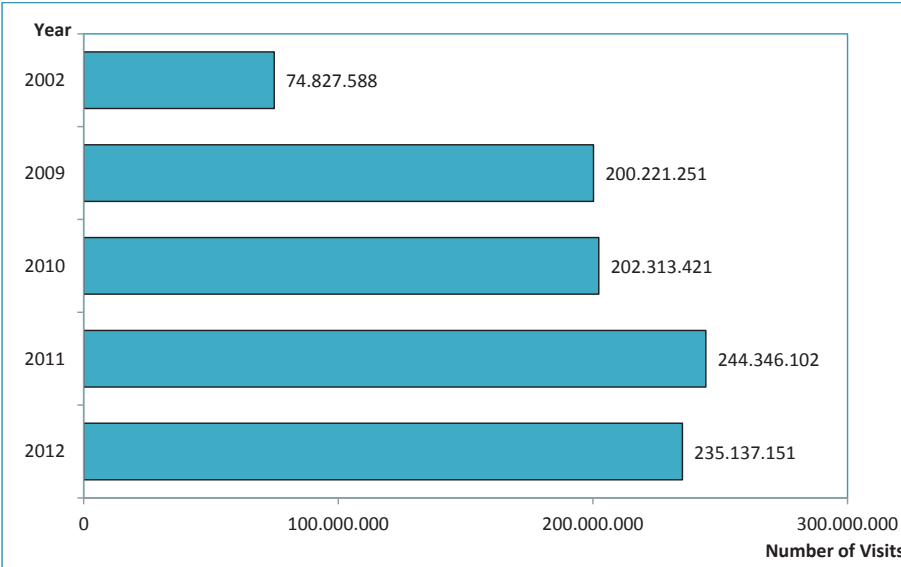
Source: OECD Health Data 2013

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



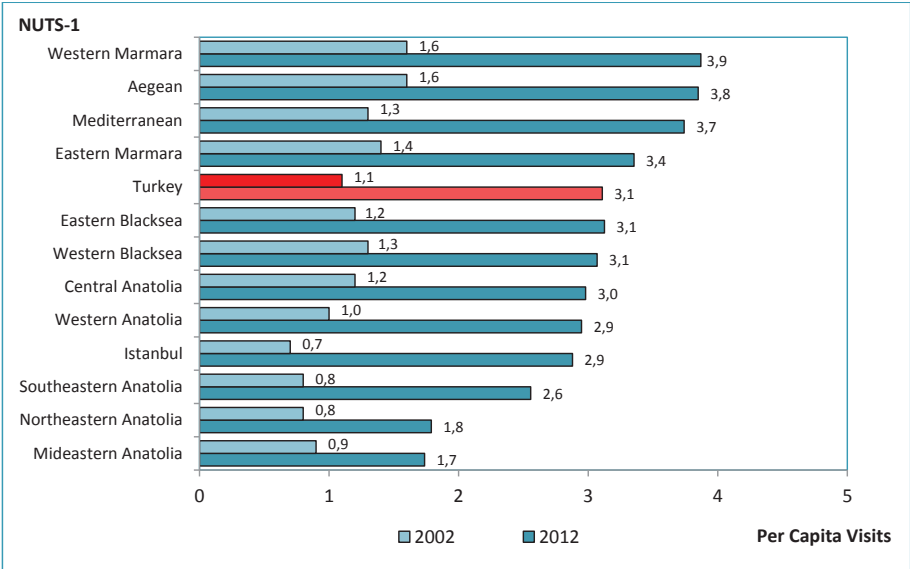
Source: Public Health Institution of Turkey, General Directorate for Health Services

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



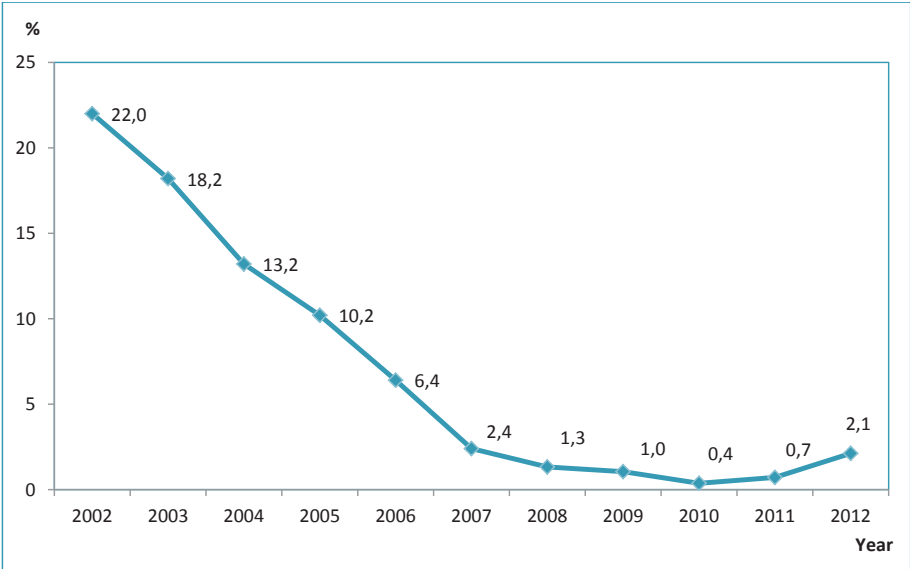
Source: Public Health Institution of Turkey, General Directorate for Health Services

Figure 7.6. Per Capita Visits to a Physician at Primary Health Care Facilities by NUTS-1, All Sectors, 2002, 2012



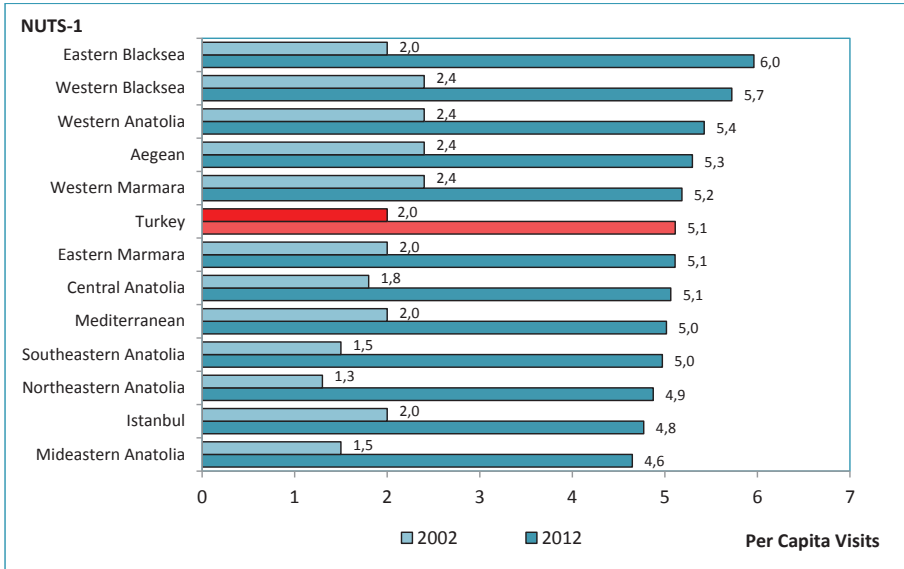
Source: Public Health Institution of Turkey, General Directorate for Health Services

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



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, 2012



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

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

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

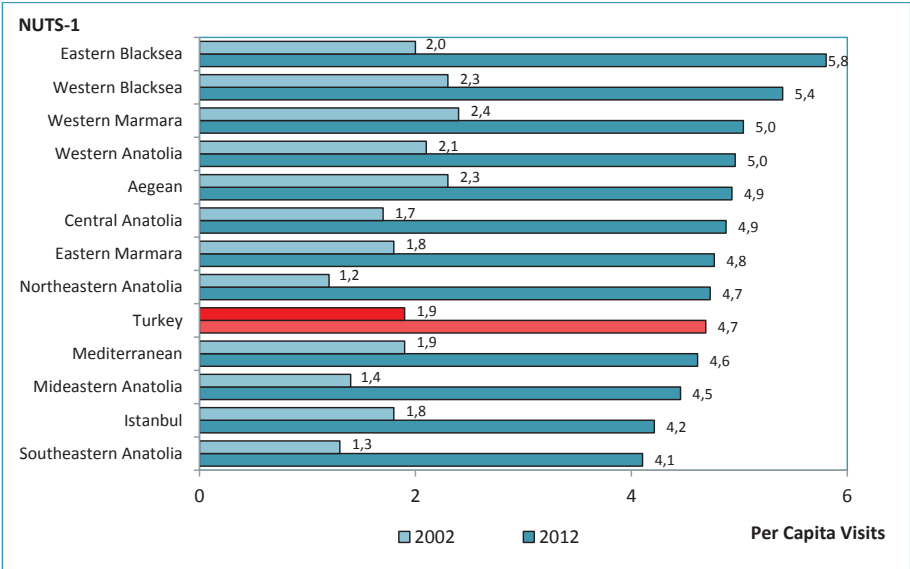
Source: General Directorate for Health Services

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

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

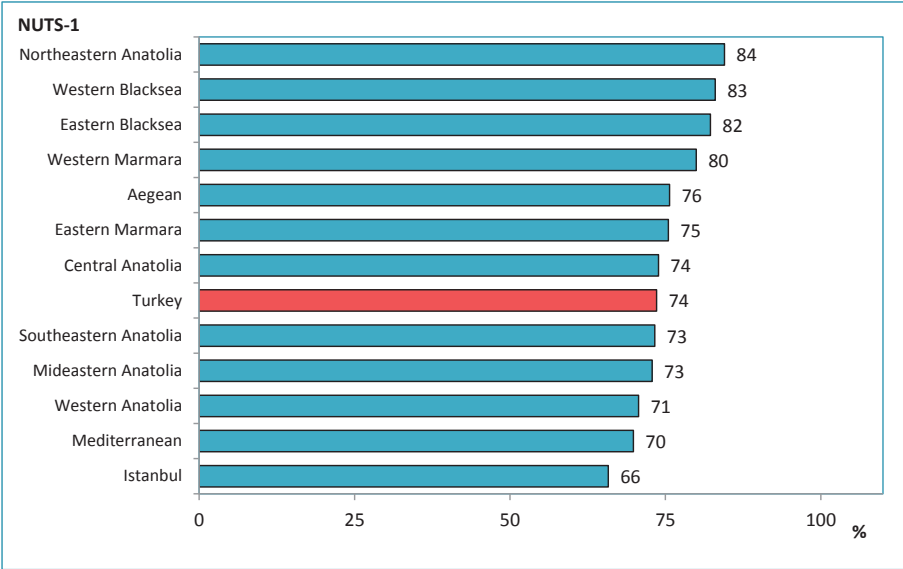
Source: General Directorate for Health Services

Figure 7.9. Per Capita Visits to Hospitals by NUTS-1, All Sectors, 2002, 2012



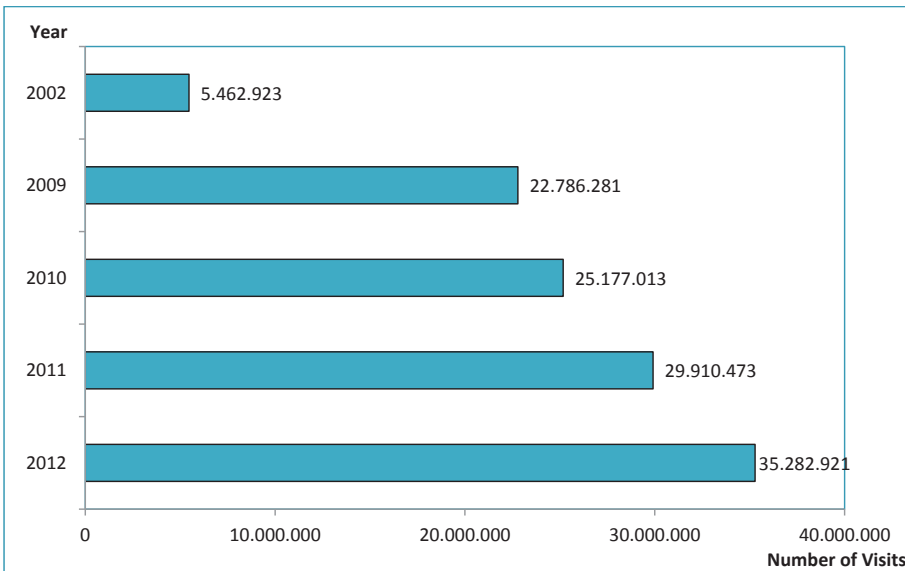
Source: General Directorate for Health Services

Figure 7.10. Proportion of Visits to MoH Hospitals to All Sectors by NUTS-1, (%), 2012



Source: General Directorate for Health Services

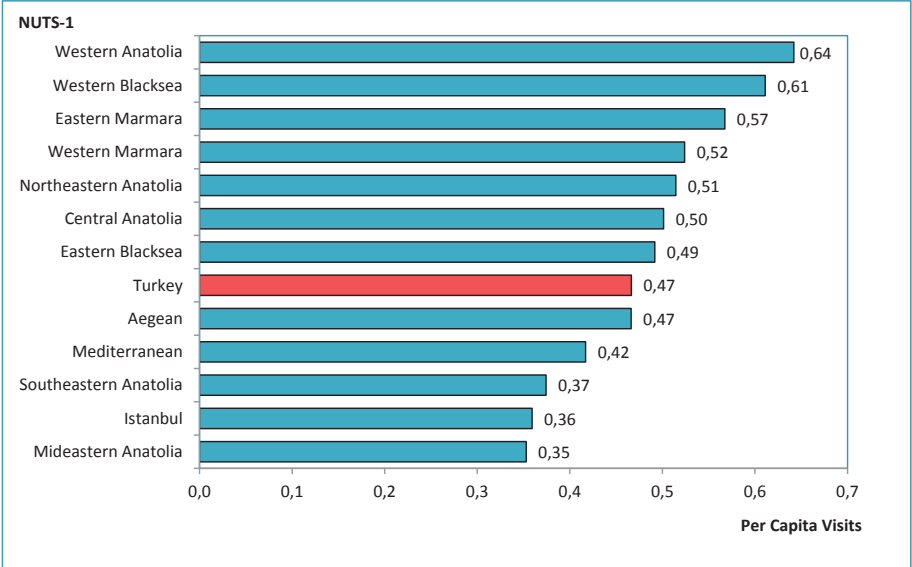
Figure 7.11. Number of Visits to Oral and Dental Care Services by Years, All Sector, Turkey



Source: General Directorate for Health Services

**Only the values of the Ministry of Health have been given before 2012. The University and Private sector values have been included in 2012.*

Figure 7.12. Per Capita Visits to a Dentist by NUTS-1, Turkey, 2012



Source: General Directorate for Health Services

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

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

Source: General Directorate for Health Services

Table 7.5. Number of Inpatients in the MoH Hospitals and Its Proportion to All Sectors by NUTS-1, (%), 2012

NUTS-1	Ministry of Health	Total	Proportion of MOH (%)
Northeastern Anatolia	247.659	338.440	73
Western Blacksea	505.770	741.325	68
Western Marmara	295.987	447.666	66
Eastern Blacksea	323.094	492.120	66
Southeastern Anatolia	769.534	1.205.382	64
Eastern Marmara	687.425	1.092.862	63
Aegean	989.687	1.601.031	62
Mideastern Anatolia	383.642	657.480	58
Turkey	6.891.857	11.978.827	58
Mediterranean	861.940	1.569.008	55
Western Anatolia	647.729	1.240.283	52
Central Anatolia	376.227	722.997	52
Istanbul	803.163	1.870.233	43

Source: General Directorate for Health Services

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

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

Source: General Directorate for Health Services

Table 7.7. Number of Surgical Operations by Surgical Operation Groups and Sectors, 2012

	A	B	C	Total
Ministry of Health	177.305	800.446	1.321.142	2.298.893
University	98.801	261.077	304.817	664.695
Private	158.855	508.351	779.424	1.446.630
Total	434.961	1.569.874	2.405.383	4.410.218

Source: General Directorate for Health Services

Table 7.8. Distribution of Surgical Operations by Surgical Operation Groups by Sectors, (%), 2012

	A	B	C	Total
Ministry of Health	41	51	55	52
University	23	17	13	15
Private	37	32	32	33
Total	100	100	100	100

Source: General Directorate for Health Services

Table 7.9. Number of Surgical Operations per 1.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Western Anatolia	38,8	15,7	19,2	73,8
Mediterranean	33,3	10,3	21,1	64,7
Central Anatolia	26,9	12,4	24,0	63,4
Eastern Blacksea	35,6	9,4	14,8	59,8
Eastern Marmara	34,8	8,5	15,8	59,1
Turkey	30,4	8,8	19,1	58,3
Aegean	30,3	9,8	17,8	58,0
Northeastern Anatolia	41,6	12,5	3,2	57,2
Istanbul	24,1	4,9	27,3	56,3
Western Blacksea	32,8	7,2	13,6	53,6
Southeastern Anatolia	25,9	4,8	19,0	49,6
Mideastern Anatolia	26,5	8,5	14,5	49,5
Western Marmara	25,2	8,0	11,2	44,4

Source: General Directorate for Health Services

Table 7.10. Number of Surgical Operations per 1.000 Population by NUTS-1 and Groups, 2012

NUTS-1	A	B	C	Total
Western Anatolia	8,9	27,5	37,3	73,8
Mediterranean	5,5	22,1	37,0	64,7
Central Anatolia	5,0	25,1	33,4	63,4
Eastern Blacksea	6,0	20,2	33,5	59,8
Eastern Marmara	6,8	20,7	31,6	59,1
Turkey	5,8	20,8	31,8	58,3
Aegean	6,4	22,1	29,5	58,0
Northeastern Anatolia	3,5	16,6	37,1	57,2
Istanbul	6,8	20,6	28,9	56,3
Western Blacksea	5,4	19,2	29,0	53,6
Southeastern Anatolia	2,8	15,9	30,9	49,6
Mideastern Anatolia	3,1	15,5	30,9	49,5
Western Marmara	3,5	16,5	24,3	44,4

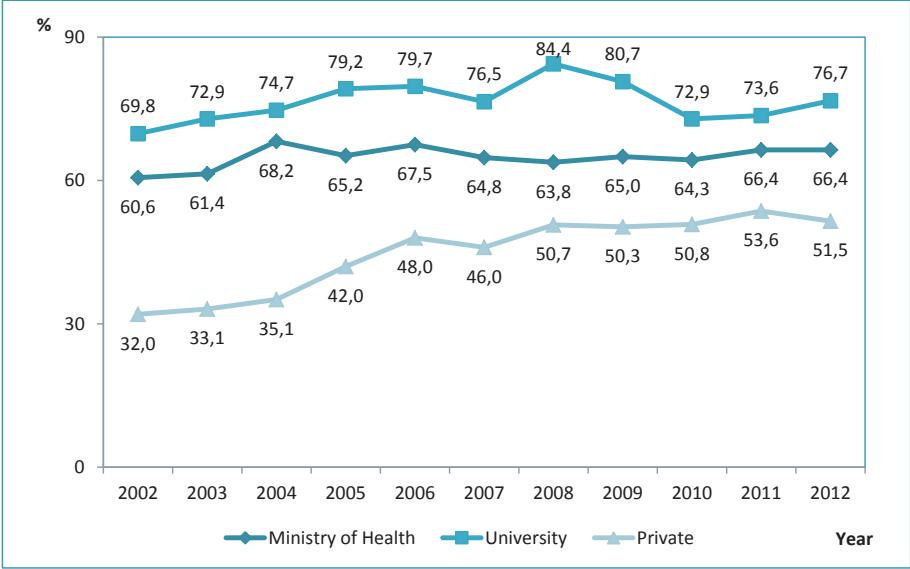
Source: General Directorate for Health Services

Table 7.11. Proportion of Surgical Operations to the Number of Visits by NUTS-1 and Sectors, (%), 2012

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

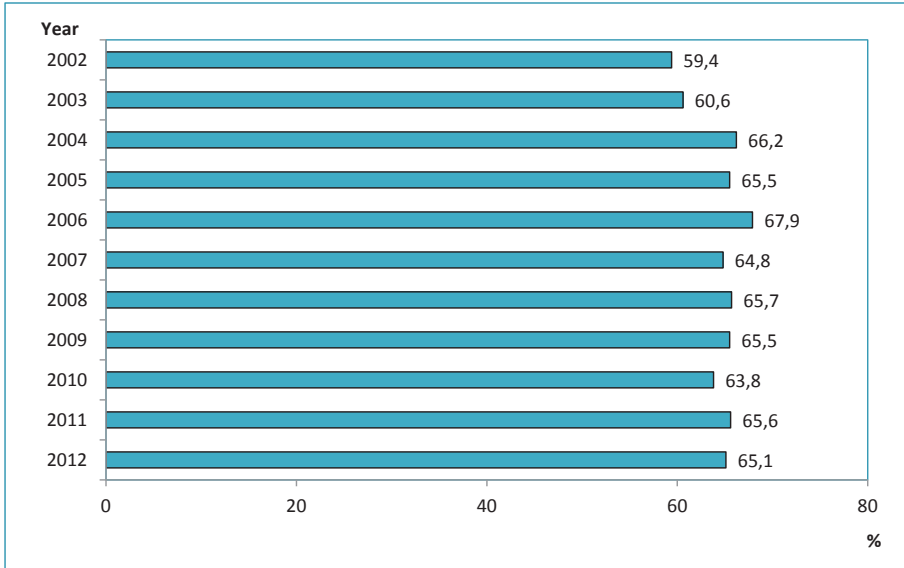
Source: General Directorate for Health Services

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



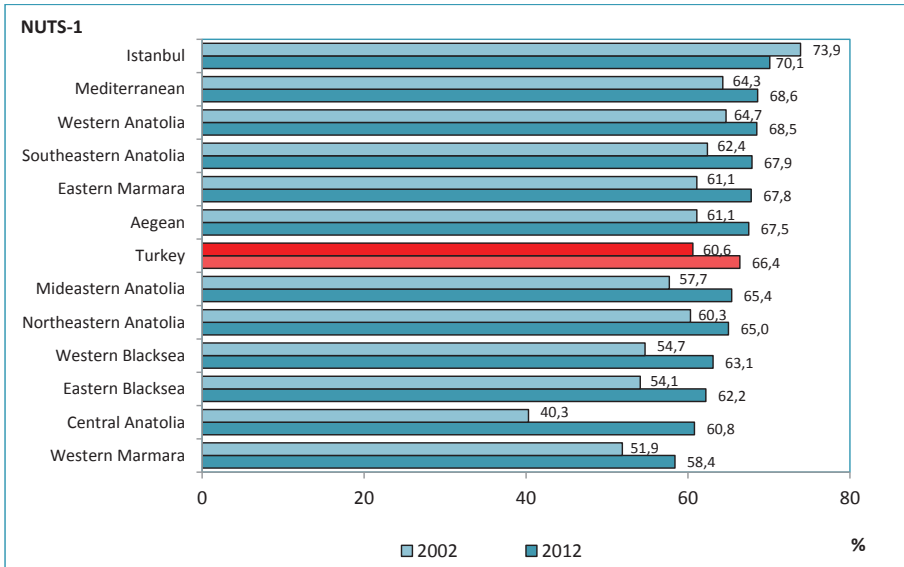
Source: General Directorate for Health Services

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



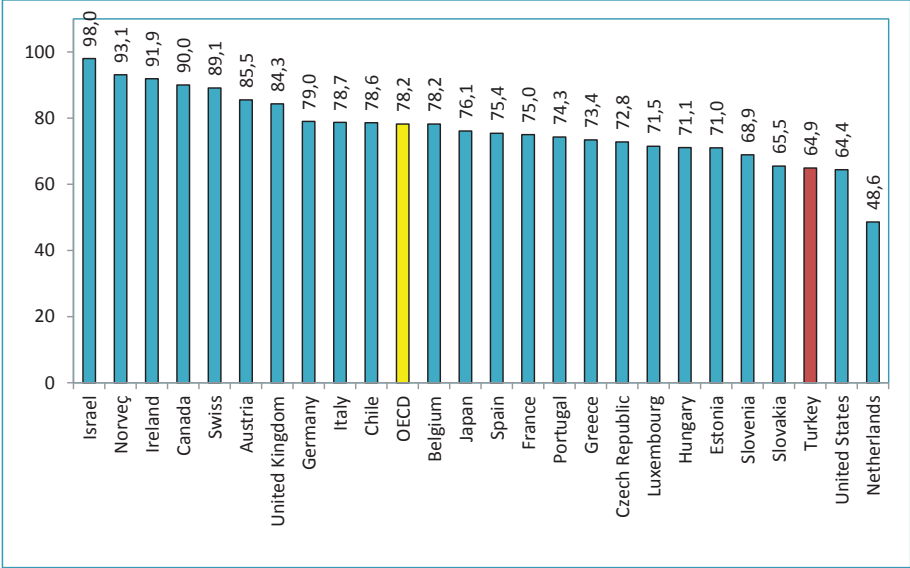
Source: General Directorate for Health Services

Figure 7.15. Bed Occupancy Rate in Hospitals by NUTS-1, Ministry of Health, (%), 2002, 2012



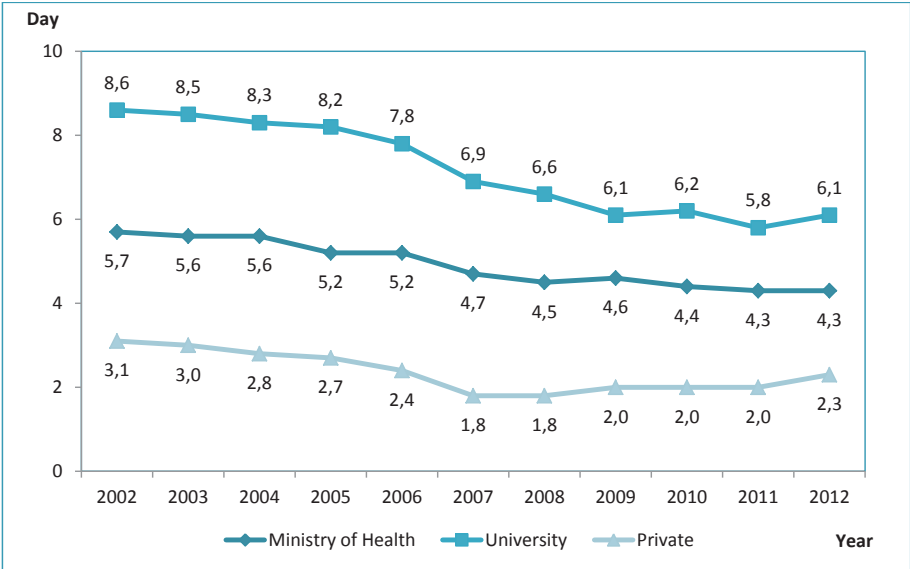
Source: General Directorate for Health Services

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



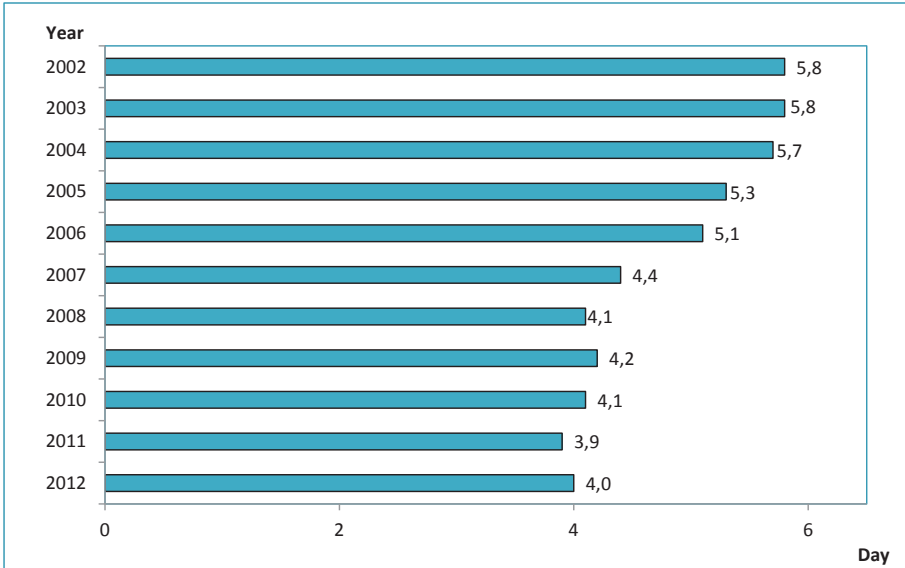
Source: OECD Health at a Glance, 2013

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



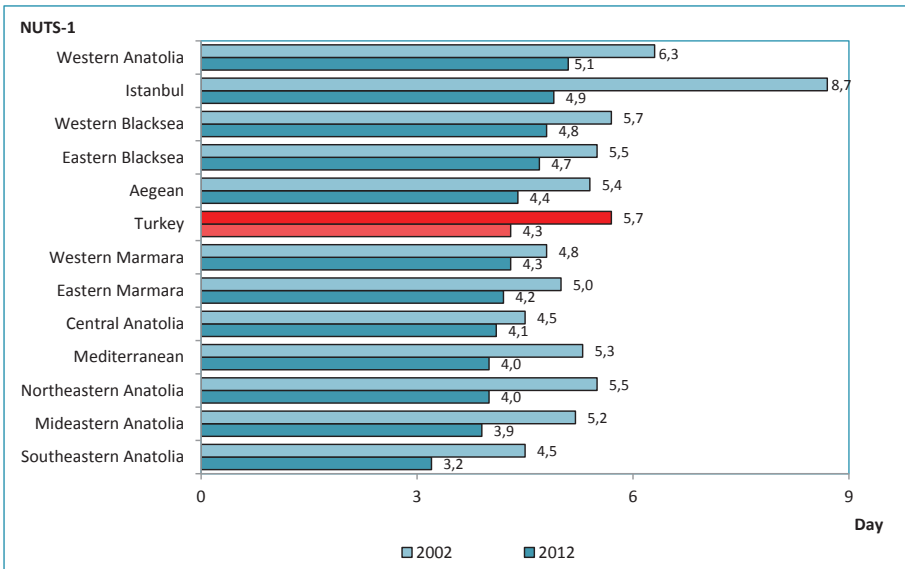
Source: General Directorate for Health Services

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



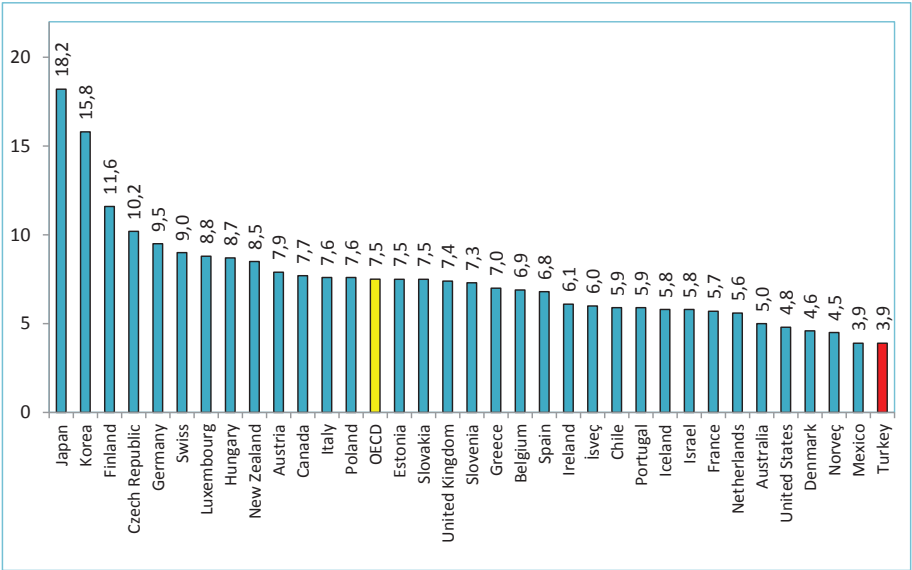
Source: General Directorate for Health Services

Figure 7.19. Average Length Stay in Hospitals by NUTS-1, MoH, 2002, 2012



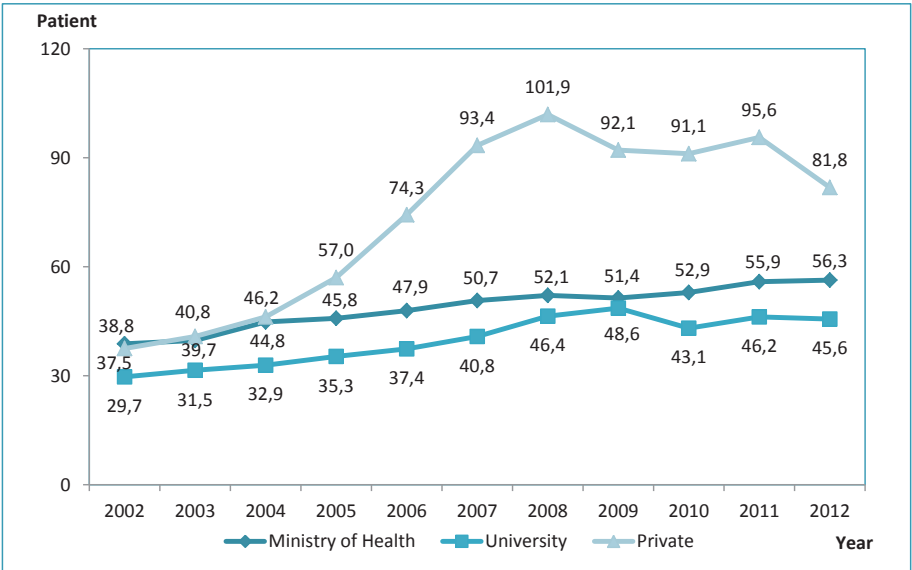
Source: General Directorate for Health Services

Figure 7.20. International Comparison of Average Length of Stay in Hospitals, (Days), 2011



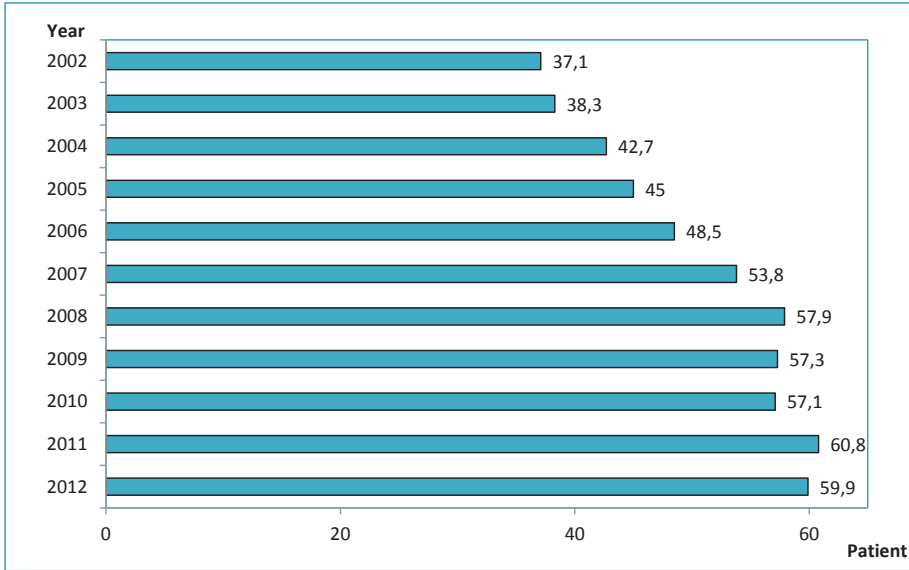
Source: OECD Health Data 2013

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



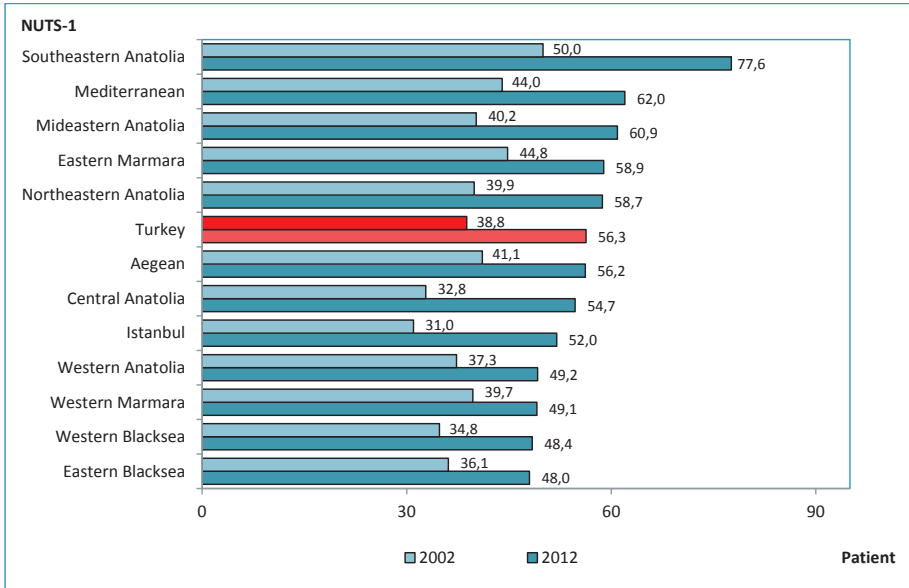
Source: General Directorate for Health Services

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



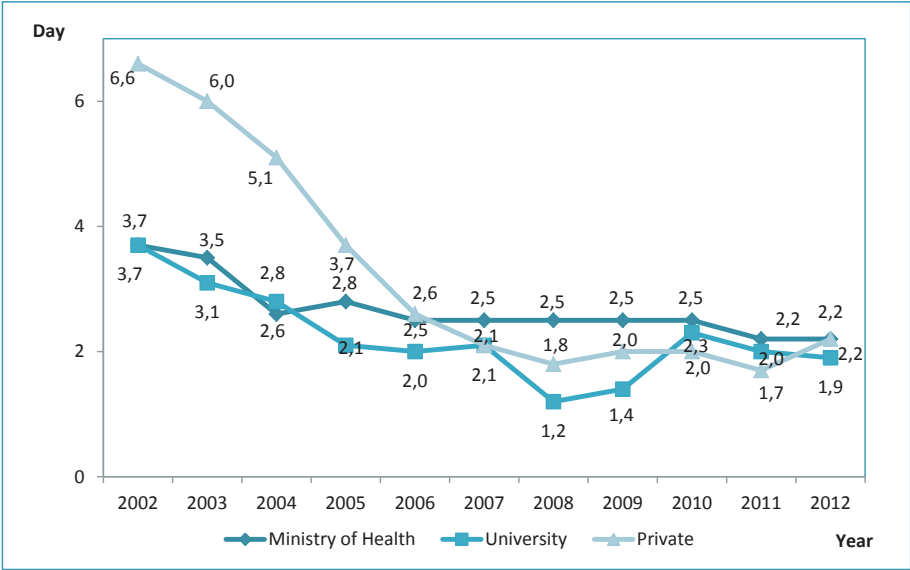
Source: General Directorate for Health Services

Figure 7.23. Bed Turnover Rate in Hospitals by NUTS-1, (Patient), MoH, 2002, 2012



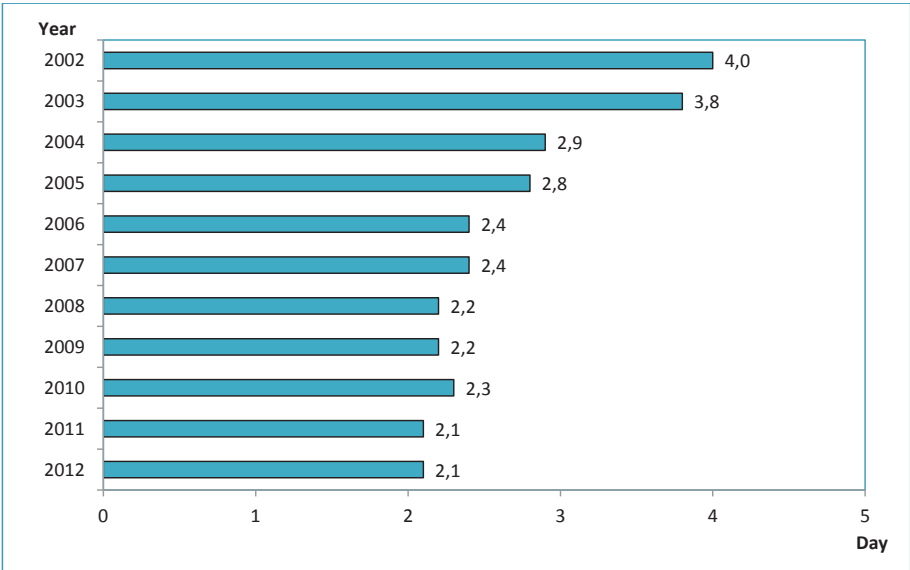
Source: General Directorate for Health Services

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



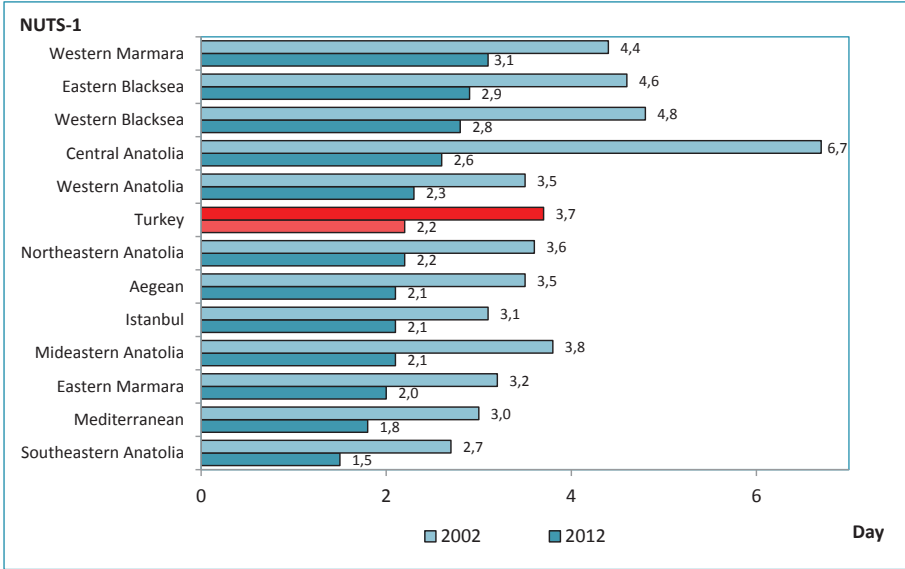
Source: General Directorate for Health Services

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



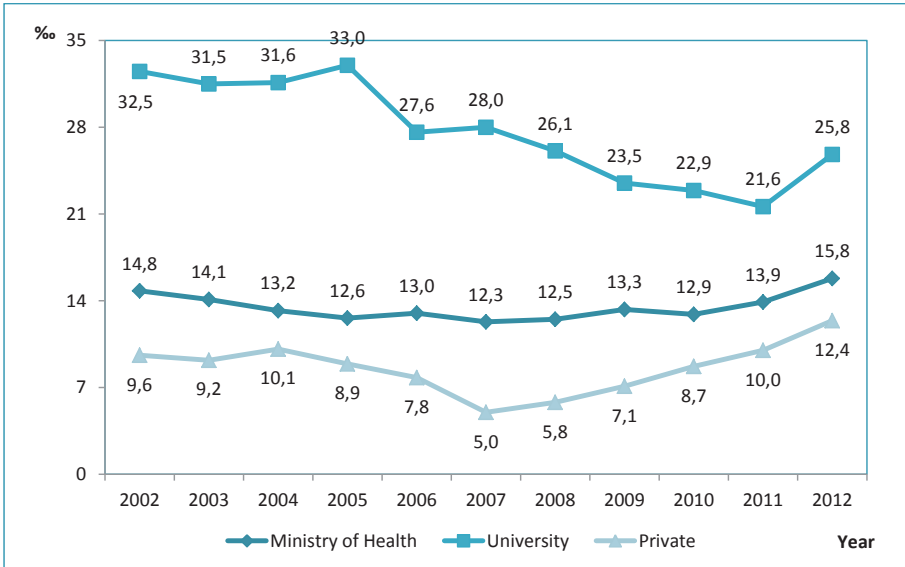
Source: General Directorate for Health Services

Figure 7.26. Bed Turnover Interval in Hospitals by NUTS-1, (Day), MoH, 2002, 2012



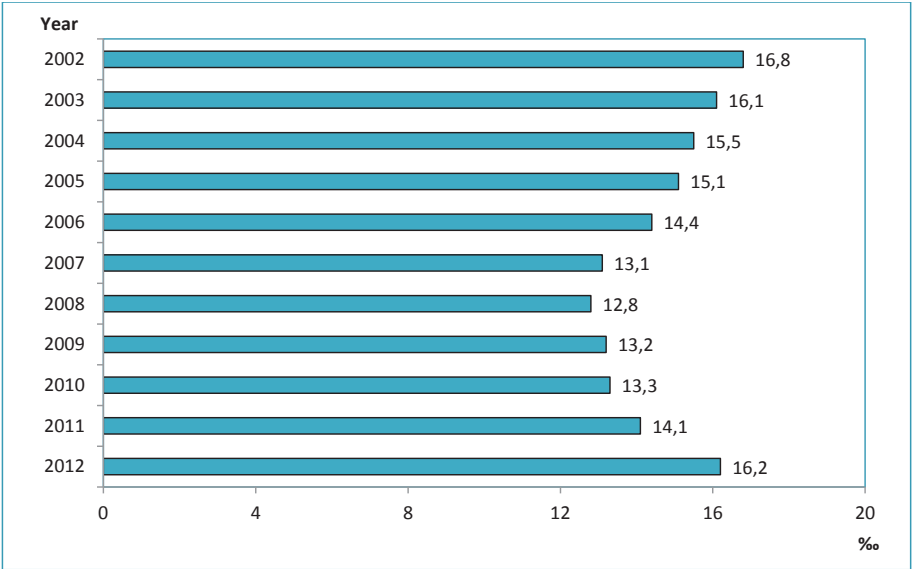
Source: General Directorate for Health Services

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



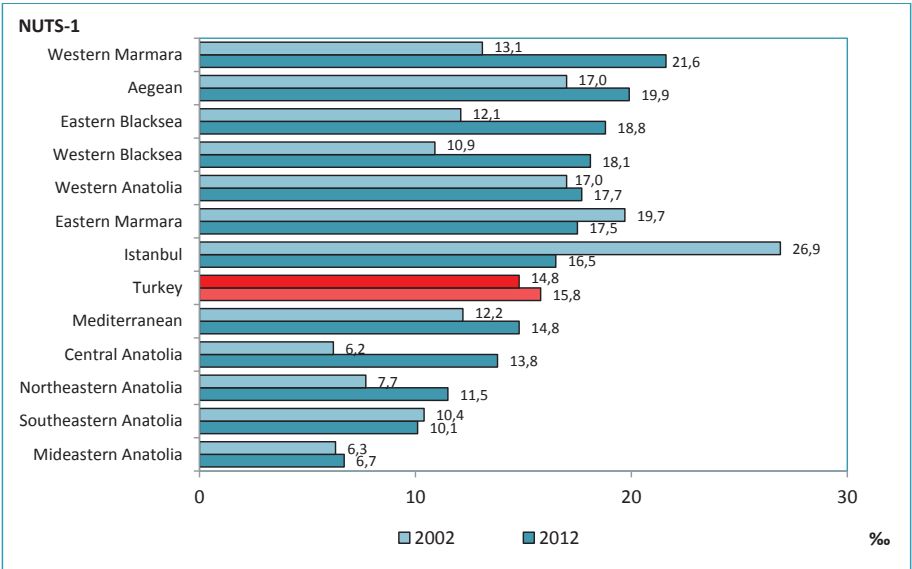
Source: General Directorate for Health Services

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



Source: General Directorate for Health Services

Figure 7.29. Crude Death Rate in Hospitals by NUTS-1, MoH, (%), 2002, 2012



Source: General Directorate for Health Services

Table 7.12. Number of Days Stayed in Hospitals by Years and Sectors, Turkey

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

Source: General Directorate for Health Services

Table 7.13. Number of Days Stayed in Hospitals by NUTS-1, Ministry of Health, 2012

NUTS-1	2012
Northeastern Anatolia	1.001.253
Mideastern Anatolia	1.505.091
Southeastern Anatolia	2.457.984
Istanbul	3.950.876
Western Marmara	1.284.648
Aegean	4.344.254
Eastern Marmara	2.886.663
Western Anatolia	3.292.367
Mediterranean	3.479.326
Central Anatolia	1.527.220
Western Blacksea	2.403.860
Eastern Blacksea	1.528.894
Turkey	29.662.436

Source: General Directorate for Health Services

Table 7.14. Number of Organ Transplantations by Years, Turkey

	2002	2009	2010	2011	2012
Kidney	550	2362	2.502	2.923	2.903
Liver	159	592	695	904	1.001
Heart	20	54	86	93	61
Heart Valve	15	38	18	1	5
Lung	0	7	3	5	25
Heart-Lung	0	0	0	0	2
Pancreas	0	18	29	26	6
Small Intestine	1	1	3	1	5
Total	745	3072	3.336	3.953	4.008

Source: General Directorate for Health Services

Table 7.15. Number of Imaging Devices in Inpatient Health Care Facilities by Sectors, 2012

	MRI	CT	Ultrasound	Doppler Ultrasonography	ECO	Mammog- raphy	x-Ray
Ministry of Health	5.103.661	6.481.088	15.480.054	4.803.078	3.074.063	1.359.768	32.935.904
University	978.049	1.476.353	1.679.200	616.171	578.346	257.967	3.517.190
Private	2.510.362	1.867.832	5.250.608	1.520.430	1.396.252	424.845	6.837.637
Total	8.592.072	9.825.273	22.409.862	6.939.679	5.048.661	2.042.580	43.290.731

Source: General Directorate for Health Services

Table 7.16. Number of MRI Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Western Marmara	13,9	36,2	38,4	18,7
Central Anatolia	15,0	36,3	33,1	19,9
Aegean	18,4	36,6	34,5	22,5
Eastern Marmara	18,9	30,3	37,1	22,9
Western Blacksea	18,0	42,3	48,7	22,9
Mediterranean	18,0	35,2	34,3	23,0
Northeastern Anatolia	15,5	67,1	66,1	23,4
Turkey	19,6	36,1	37,7	24,2
Southeastern Anatolia	18,0	31,0	44,6	24,5
Western Anatolia	20,5	35,7	34,5	24,8
Eastern Blacksea	21,8	49,1	42,9	25,8
Istanbul	26,9	28,5	30,3	28,0
Mideastern Anatolia	20,7	52,5	64,5	31,8

Source: General Directorate for Health Services

Table 7.17. Number of CT Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Western Marmara	15,3	31,4	26,6	17,8
Eastern Marmara	21,9	49,1	24,0	24,3
Central Anatolia	18,3	95,6	22,0	24,6
Mediterranean	22,4	50,1	29,2	26,3
Eastern Blacksea	22,7	78,5	34,3	26,3
Western Anatolia	24,7	42,5	25,7	27,4
Aegean	24,1	59,5	25,9	27,5
Turkey	24,8	54,5	28,1	27,7
Western Blacksea	23,5	66,1	44,4	28,1
Mideastern Anatolia	23,6	74,7	34,7	29,3
Southeastern Anatolia	26,3	54,6	36,7	29,9
Istanbul	34,7	50,9	21,4	32,2
Northeastern Anatolia	30,2	55,9	57,2	34,3

Source: General Directorate for Health Services

Table 7.18. Number of Ultrasound Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Western Marmara	39,9	39,3	47,1	40,9
Eastern Marmara	50,5	44,9	64,1	52,4
Eastern Blacksea	45,1	62,8	95,6	52,9
Istanbul	57,1	50,2	57,7	56,8
Western Blacksea	54,1	46,2	85,4	57,5
Aegean	56,9	65,8	81,9	61,5
Turkey	59,3	62,0	78,9	63,2
Northeastern Anatolia	65,5	50,9	80,4	65,7
Mideastern Anatolia	58,1	94,9	93,9	67,9
Central Anatolia	55,8	58,6	133,9	70,7
Mediterranean	67,3	81,1	82,3	71,7
Western Anatolia	78,0	56,0	73,2	74,1
Southeastern Anatolia	68,4	92,1	102,9	77,1

Source: General Directorate for Health Services

Table 7.19. Number of Doppler Ultrasound Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Eastern Blacksea	10,8	9,5	14,1	11,2
Northeastern Anatolia	8,9	21,0	36,1	12,0
Western Marmara	8,2	35,4	27,4	12,4
Central Anatolia	11,6	49,8	15,5	15,0
Western Blacksea	15,3	35,7	23,7	17,3
Mediterranean	17,5	20,5	16,9	17,7
Aegean	14,3	23,9	35,5	18,4
Western Anatolia	18,9	19,4	16,1	18,5
Turkey	18,4	22,8	22,8	19,6
Istanbul	22,9	11,8	15,4	20,1
Eastern Marmara	25,7	18,6	27,0	25,4
Southeastern Anatolia	25,5	30,5	28,2	26,3
Mideastern Anatolia	27,0	31,3	44,6	30,9

Source: General Directorate for Health Services

Table 7.20. Number of ECO Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Western Marmara	9,7	10,7	14,0	10,4
Istanbul	10,2	11,7	16,6	12,0
Eastern Marmara	10,5	18,8	20,0	12,7
Aegean	11,2	17,5	22,7	13,6
Eastern Blacksea	12,5	30,8	18,1	13,9
Turkey	11,8	21,4	21,0	14,2
Northeastern Anatolia	14,2	18,6	11,3	14,3
Western Blacksea	11,6	29,0	30,2	14,7
Central Anatolia	10,3	36,5	23,6	14,7
Mideastern Anatolia	12,2	28,3	20,4	14,9
Mediterranean	11,8	24,3	22,4	15,1
Southeastern Anatolia	14,1	30,9	22,3	16,7
Western Anatolia	14,7	22,2	28,0	17,7

Source: General Directorate for Health Services

Table 7.21. Number of Mammography Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Southeastern Anatolia	1,6	2,9	4,1	2,2
Mideastern Anatolia	2,3	4,9	5,1	3,0
Northeastern Anatolia	2,9	7,4	2,9	3,2
Eastern Blacksea	3,4	20,1	5,7	4,3
Western Marmara	5,3	5,0	4,6	5,1
Western Blacksea	4,5	7,2	8,9	5,2
Mediterranean	5,3	7,0	5,2	5,4
Turkey	5,2	9,5	6,4	5,8
Central Anatolia	5,0	9,2	7,6	5,8
Eastern Marmara	5,5	7,0	7,3	5,9
Aegean	6,6	12,4	6,8	7,2
Istanbul	7,6	8,6	7,1	7,6
Western Anatolia	6,3	14,4	8,0	7,7

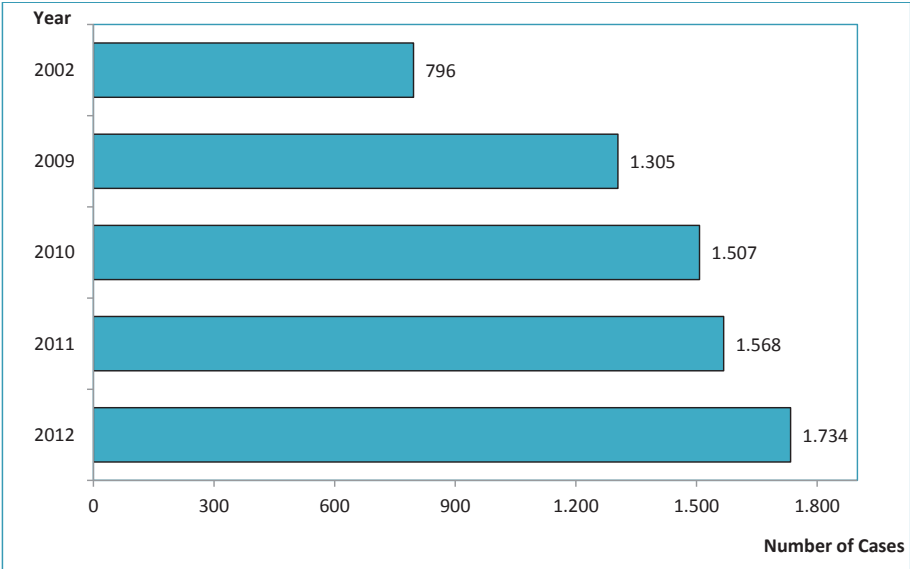
Source: General Directorate for Health Services

Table 7.22. Number of x-Ray Exams in Inpatient Health Care Facilities per 1.000 Population by NUTS-1 and Sectors, 2012

NUTS-1	Ministry of Health	University	Private	Total
Istanbul	113,2	120,6	71,5	102,2
Aegean	113,5	107,5	80,3	107,9
Western Marmara	116,8	4,1	103,0	109,1
Southeastern Anatolia	127,9	51,6	79,5	113,7
Central Anatolia	98,3	267,7	148,3	119,9
Turkey	126,2	129,9	102,7	122,1
Mideastern Anatolia	125,0	48,1	143,9	123,6
Western Anatolia	134,8	112,7	132,1	131,2
Western Blacksea	140,0	194,5	70,7	134,2
Mediterranean	135,1	146,1	127,3	134,4
Eastern Marmara	143,6	153,0	108,9	138,5
Northeastern Anatolia	138,3	214,2	147,5	144,5
Eastern Blacksea	136,4	290,5	180,1	148,1

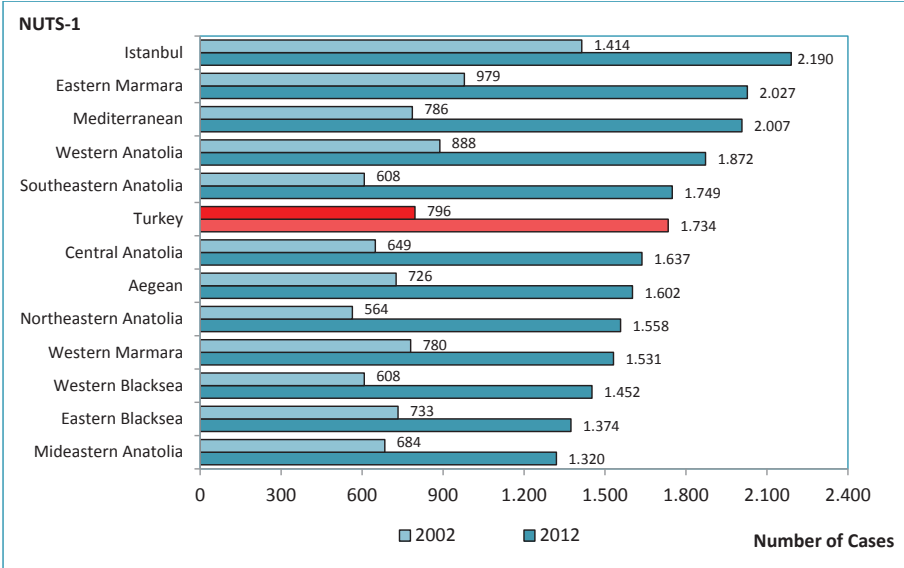
Source: General Directorate for Health Services

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



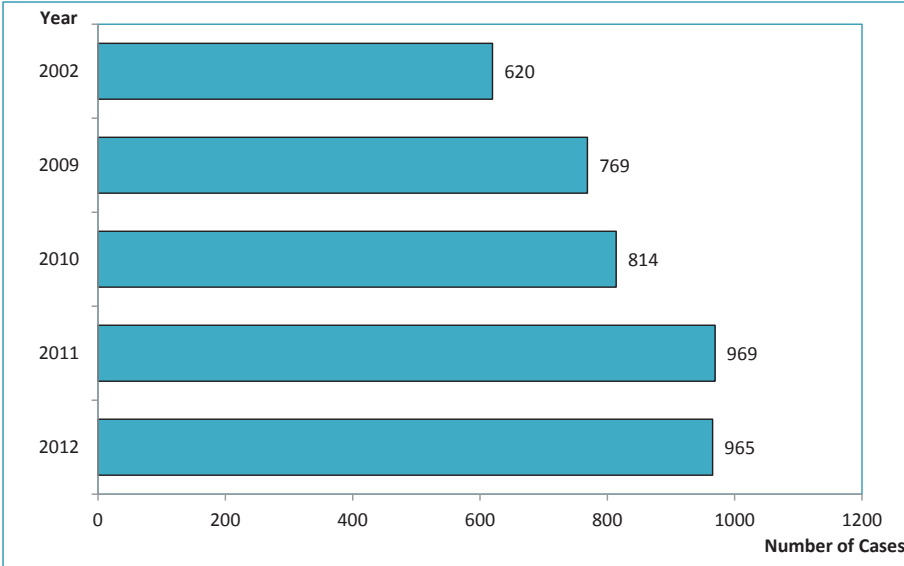
Source: General Directorate for Emergency Health Services

Figure 7.31. Number of Cases per 112 Emergency Care Station by NUTS-1, 2002, 2012



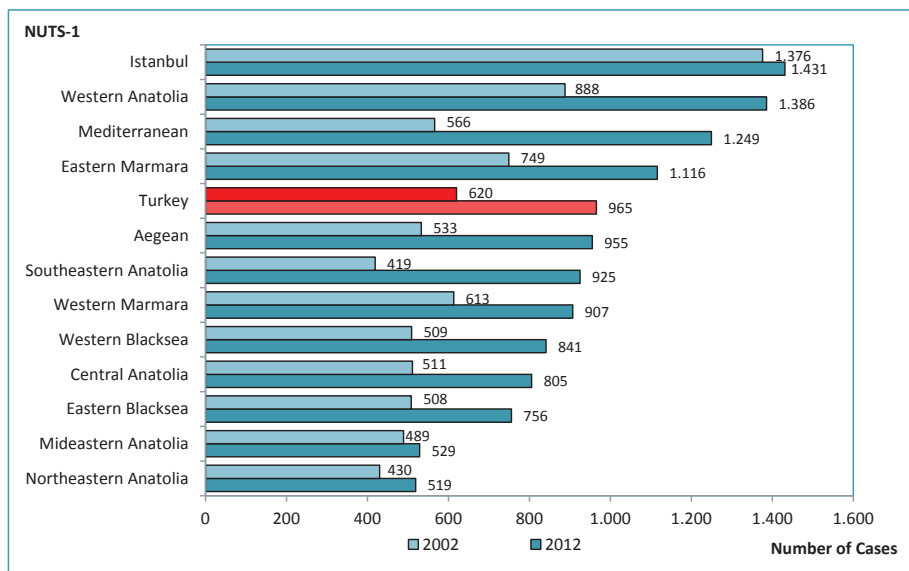
Source: General Directorate for Emergency Health Services

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



Source: General Directorate for Emergency Health Services

Figure 7.33. Total Number of Cases per Emergency Care 112 Ambulance by NUTS-1, 2002, 2012



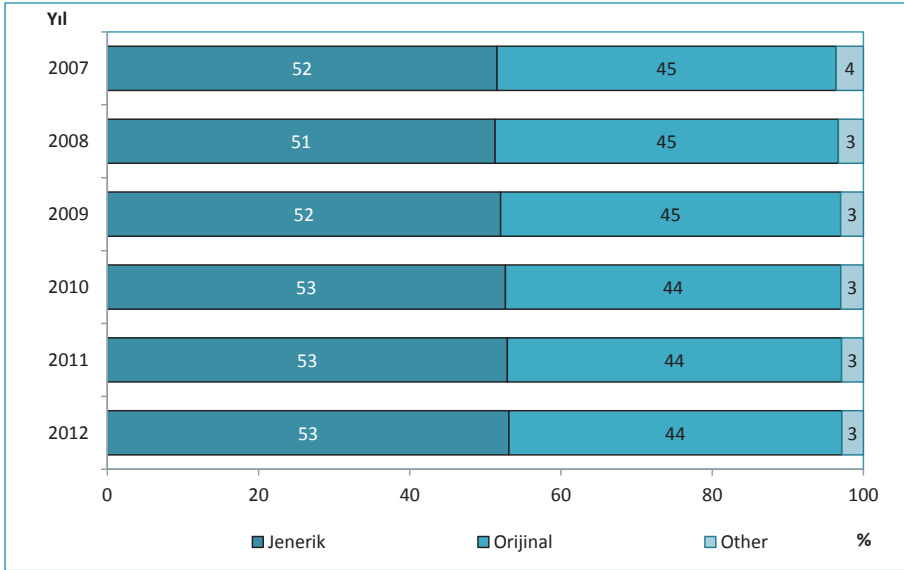
Source: General Directorate for Emergency Health Services

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

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

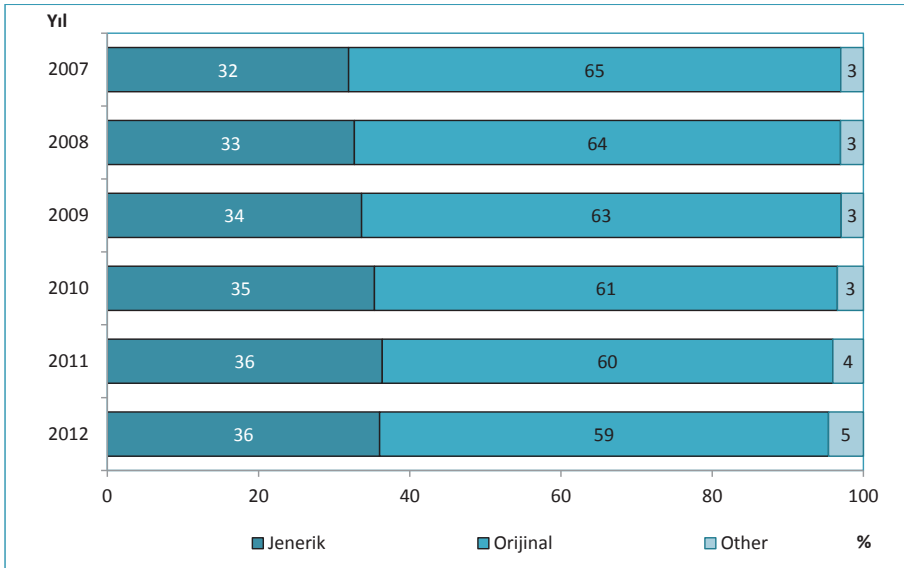
Source: Pharmaceuticals and Medical Devices Institution of Turkey

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



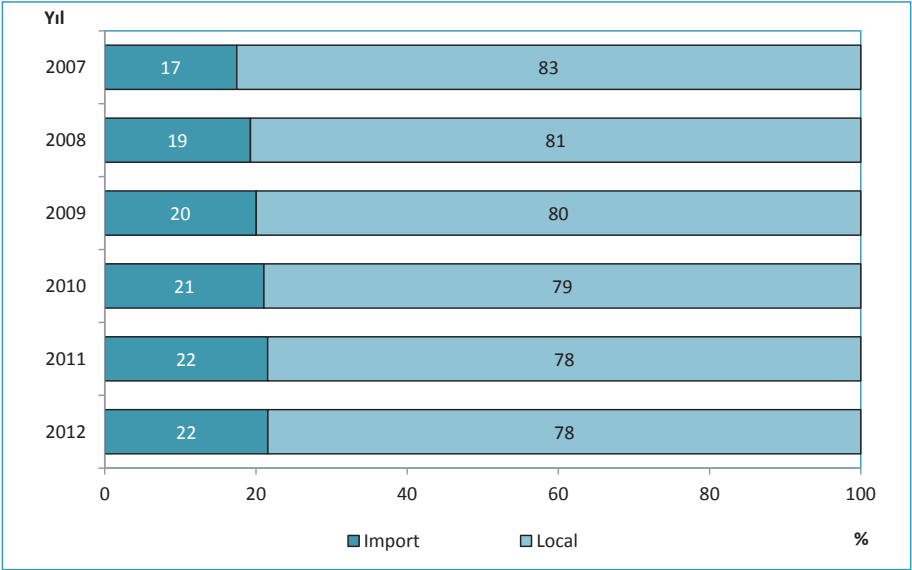
Source: Pharmaceuticals and Medical Devices Institution of Turkey

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



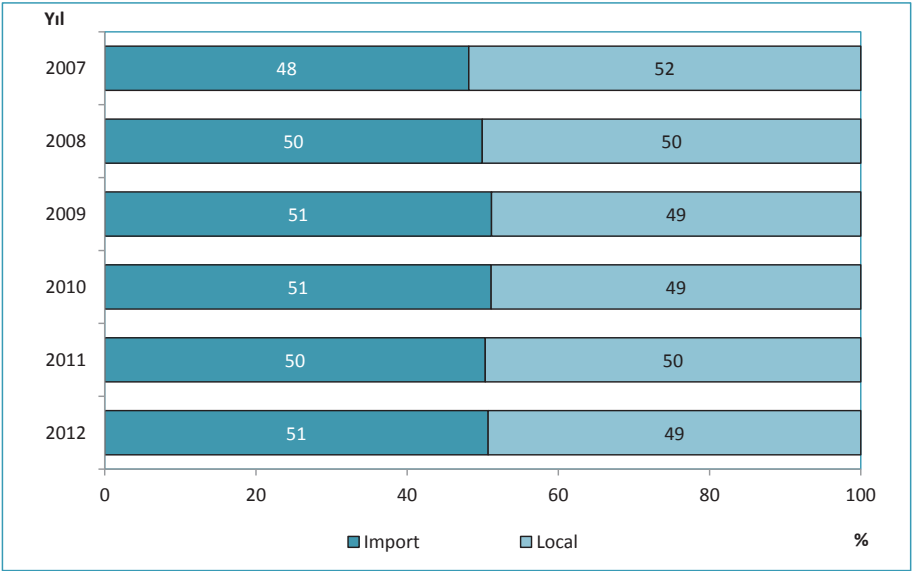
Source: Pharmaceuticals and Medical Devices Institution of Turkey

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



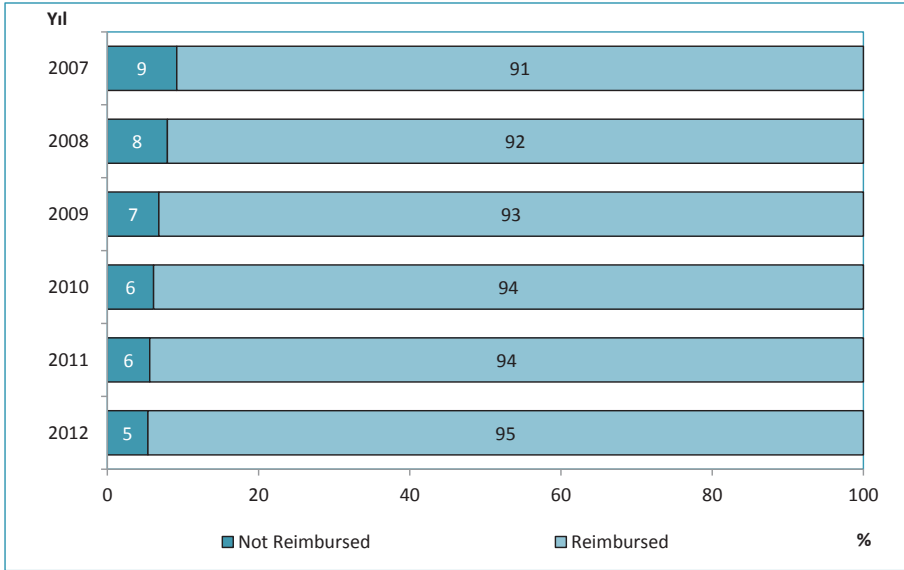
Source: Pharmaceuticals and Medical Devices Institution of Turkey

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



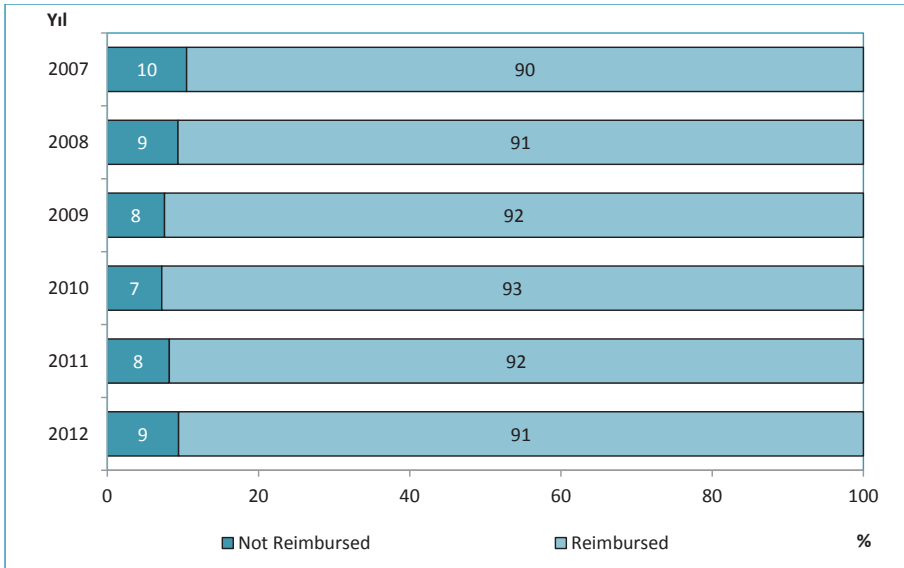
Source: Pharmaceuticals and Medical Devices Institution of Turkey

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



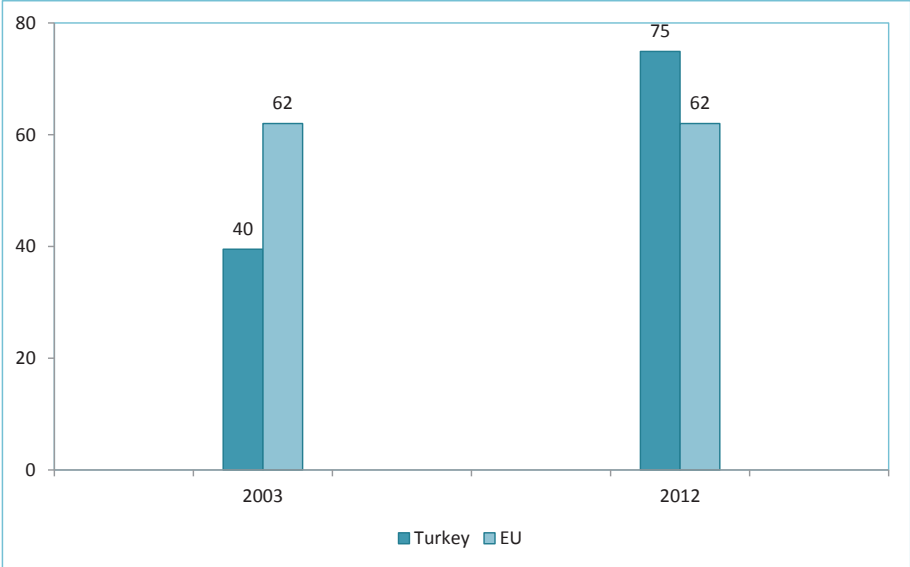
Source: Pharmaceuticals and Medical Devices Institution of Turkey

Table 7.24. Proportion of Overall Satisfaction with Health Care Services by Years, (%)

		Health Center	University Hospital	State Hospital	Private Practice	Private Polyclinic / Medical Center	Private Hospital	Institutional Physician	Family Health Center	Total Health Care Satisfaction
2003	Satisfied	39,4	46,8	41,0	46,7	-	49,3	-	-	39,5
	Moderately Satisfied	40,4	38,4	38,5	34,9	-	34,5	-	-	39,3
	Unsatisfied	20,3	14,9	20,4	18,4	-	16,2	-	-	21,2
2009	Satisfied	66,3	56,5	66,5	59,9	56,5	61,2	60,6	67,5	65,1
	Moderately Satisfied	15,9	16,6	15,4	11,6	20,6	14,6	19,5	16,9	15,7
	Unsatisfied	17,8	26,9	18,1	28,5	22,9	24,3	19,9	15,7	19,3
2010	Satisfied	74,85	68,54	74,8	39,02	65,2	66,15	54,31	73,17	73,1
	Moderately Satisfied	13,92	12,48	12,81	25,9	19,4	17,48	15,93	14,14	13,8
	Unsatisfied	11,22	18,99	12,34	35,08	15,4	16,37	29,77	12,69	13,1
2011	Satisfied	77,7	71,2	76,4	65,1	64,9	70,4	61,7	78,4	75,9
	Moderately Satisfied	8,9	15,8	11,4	3,1	17,3	15,2	29,6	10,9	12,0
	Unsatisfied	13,3	12,9	12,2	31,8	17,8	14,4	8,7	10,8	12,2
2012	Satisfied	-	72,1	75,7	57,2	59,6	67,1	73,9	77,7	74,8
	Moderately Satisfied	-	14,6	12,6	32	26,8	16,8	12,9	11,6	13,1
	Unsatisfied	-	13,3	11,6	10,8	13,6	16,2	13,2	10,7	12,0

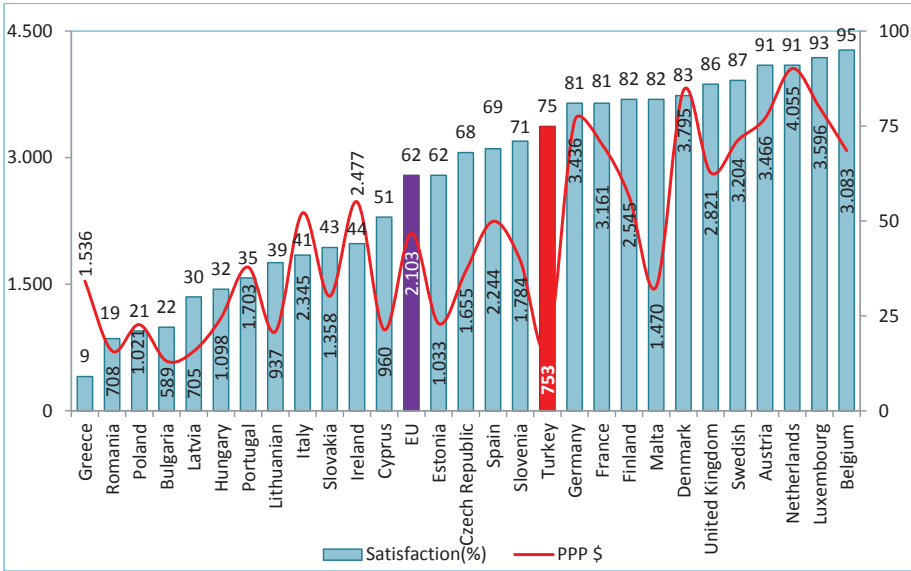
Source: TURKSTAT Life Satisfaction Survey 2012

Figure 7.40. Satisfaction with Health Care Services in EU and Turkey, (%), 2003, 2012



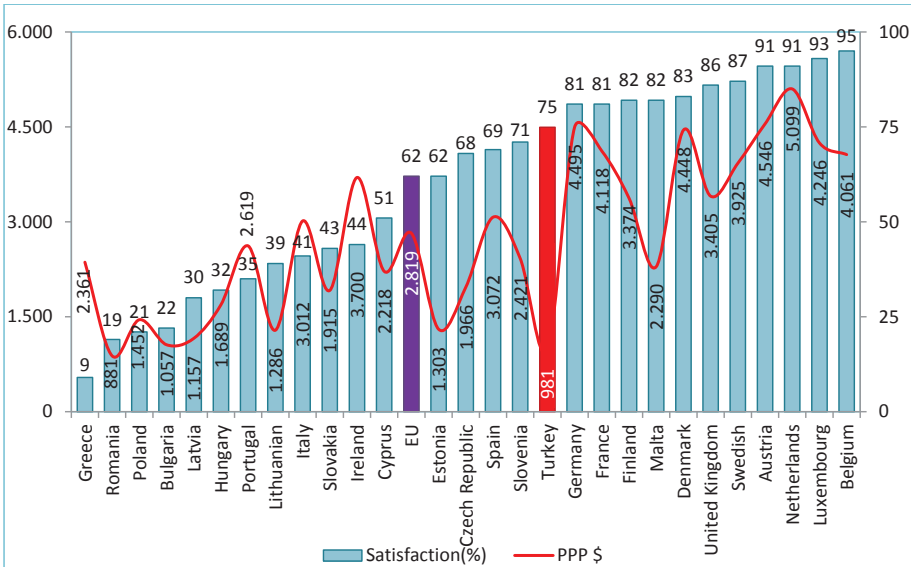
Source: Bulletin of the World Health Organization 2009; 87:271-278, European Commission Social Climate Report 2012, TURKSTAT Life Satisfaction Survey 2012

Figure 7.41. Satisfaction with Health Care Services (%) 2012 and Per Capita Public Health Expenditure, (PPP US \$), 2011



Source: OECD Health Data, WHO World Health Statistics 2012, European Commission Social Climate Report 2012, TURKSTAT Life Satisfaction Survey 2012

Figure 7.42. Satisfaction with Health Care Services (%) 2012 and Per Capita Total Health Expenditure, (PPP US \$), 2011



Source: OECD Health Data, WHO World Health Statistics 2012, European Commission Social Climate Report 2012, TURKSTAT Life Satisfaction Survey 2012

Table 7.25. Some Health Indicators by Provinces, Turkey, 2012

	Primary Care Facilities Total	Secondary and Tertiary Health Care Total	Per Capita Visits	Number of Visits Dentist	Per Capita Visits Dentist	Number of Inpatients	Number of Days Stayed In Hospitals	Number of Surgical Operations	Bed Occupancy Rate in Hospital	Average Length of Stay in Hospital	Bed Turn- over Rate in Hospital	Bed Turn-over Interval in Hospital	Crude Death Rate in Hospital
Adana	8.912.692	10.443.554	9,1	954.687	0,45	374.204	1.714.796	170.323	75,3	4,6	60,0	1,5	16,3
Adıyaman	1.424.813	2.787.295	7,1	270.226	0,45	84.689	272.643	21.144	79,5	3,2	90,2	0,8	8,6
Afyonkarahisar	2.254.408	3.185.489	7,7	215.966	0,31	105.940	452.961	32.962	63,9	4,3	54,6	2,4	15,4
Ağrı	609.455	2.407.853	5,5	171.522	0,31	56.287	176.212	17.685	60,6	3,1	70,7	2,0	10,4
Amasya	1.081.672	1.839.469	9,1	212.208	0,66	41.980	164.402	11.765	51,8	3,9	48,3	3,6	15,7
Ankara	14.062.026	27.717.828	8,4	3.342.554	0,67	847.495	4.470.285	395.108	65,8	5,3	45,5	2,7	16,8
Antalya	8.094.558	11.028.726	9,1	859.597	0,41	352.170	1.181.231	143.309	65,9	3,4	71,8	1,7	16,3
Artvin	346.045	833.849	7,1	74.045	0,44	16.468	57.456	3.878	35,1	3,5	36,7	6,5	19,5
Aydın	4.247.161	5.590.649	9,8	511.892	0,51	182.299	693.242	47.582	71,5	3,8	68,7	1,5	19,2
Balıkesir	4.860.938	5.816.160	9,2	591.788	0,51	159.247	644.135	48.640	58,1	4,0	52,4	2,9	22,3
Bilecik	584.311	1.015.733	7,8	155.775	0,76	19.836	80.148	5.621	74,4	4,0	67,2	1,4	10,1
Bingöl	364.773	1.129.242	5,7	97.648	0,37	39.940	149.648	9.480	65,8	3,7	64,1	1,9	5,7
Bitlis	529.066	1.336.227	5,5	89.426	0,27	46.318	134.297	9.135	48,1	2,9	60,5	3,1	4,0
Bolu	1.024.244	1.770.492	9,9	224.375	0,80	62.668	302.883	19.736	58,7	4,8	44,3	3,4	11,5
Burdur	935.345	1.332.518	8,9	116.765	0,46	41.571	183.316	13.645	73,6	4,4	61,0	1,6	11,9
Bursa	9.346.483	12.643.820	8,2	1.492.598	0,56	430.403	1.681.070	150.362	69,7	3,9	65,1	1,7	20,3
Çanakkale	1.903.840	2.722.130	9,4	276.095	0,56	63.098	263.037	24.325	54,3	4,2	47,6	3,5	24,2
Çankırı	484.164	862.096	7,3	113.767	0,62	22.634	100.759	8.015	62,9	4,5	51,6	2,6	18,0
Çorum	1.501.776	2.696.379	7,9	248.236	0,47	74.191	339.680	20.919	63,4	4,6	50,6	2,6	19,2
Denizli	4.050.411	4.929.222	9,4	491.087	0,52	204.077	607.983	67.736	77,7	3,0	95,2	0,9	14,3
Diyarbakır	3.820.793	7.487.452	7,1	738.229	0,46	293.947	1.025.246	81.766	62,4	3,5	65,4	2,1	11,3
Edirne	1.495.428	2.453.907	9,9	164.373	0,41	76.113	422.871	26.084	60,5	5,6	39,7	3,6	19,0
Elazığ	1.228.254	3.304.617	8,1	263.255	0,47	149.595	756.783	44.437	71,5	5,1	51,6	2,0	12,2
Erzincan	532.570	1.413.801	8,9	100.246	0,46	41.165	141.588	10.911	60,2	3,4	63,9	2,3	11,7
Erzurum	1.546.190	4.301.100	7,5	514.435	0,66	157.580	849.912	72.997	66,1	5,4	44,7	2,8	14,4
Eskişehir	2.349.930	4.823.861	9,1	572.846	0,73	172.014	828.119	72.868	65,1	4,8	49,3	2,6	16,2
Gaziantep	8.088.653	8.890.476	9,4	840.957	0,47	323.020	1.091.932	133.736	68,9	3,4	74,4	1,5	12,5
Giresun	1.419.237	2.405.240	9,1	199.956	0,48	78.593	299.626	21.736	64,7	3,8	61,9	2,1	14,8
Gümüşhane	322.179	634.959	7,1	72.583	0,54	16.875	68.437	3.897	56,1	4,1	50,5	3,2	14,7
Hakkari	124.401	930.922	3,8	56.929	0,20	36.316	93.869	6.999	67,1	2,6	94,8	1,3	8,3
Hatay	5.820.204	7.019.270	8,7	553.035	0,37	237.911	718.070	75.169	73,2	3,0	88,5	1,1	15,3
Isparta	1.347.640	2.668.302	9,6	276.074	0,66	98.642	502.603	40.153	66,7	5,1	47,8	2,5	17,6
Mersin	6.413.235	8.369.968	8,8	492.553	0,29	231.787	843.044	89.849	70,4	3,6	70,7	1,5	18,8
İstanbul	39.878.837	66.119.669	7,7	4.977.568	0,36	1.870.233	7.203.262	780.464	61,2	3,9	58,0	2,4	17,0
İzmir	15.013.291	22.250.093	9,3	1.755.012	0,44	631.744	2.769.382	257.984	66,5	4,4	55,3	2,2	22,9
Kars	501.075	1.222.048	5,7	154.810	0,51	48.665	158.445	14.547	57,3	3,3	64,3	2,4	7,9
Kastamonu	962.916	1.853.529	7,8	172.815	0,48	45.402	188.341	12.328	41,1	4,1	36,2	5,9	22,2
Kayseri	3.705.238	6.605.032	8,1	573.650	0,45	325.401	1.032.124	119.896	70,2	3,2	80,8	1,3	12,8
Kırklareli	1.265.113	1.757.928	8,9	141.972	0,42	41.539	143.790	9.401	49,8	3,5	52,5	3,5	12,2
Kırşehir	538.769	1.330.321	8,4	131.041	0,59	35.921	111.769	9.419	61,5	3,1	72,1	1,9	15,6
Kocaeli	5.551.572	8.837.870	8,8	934.078	0,57	227.157	912.843	93.046	64,3	4,0	58,4	2,2	19,8
Konya	6.583.825	10.448.278	8,3	1.192.210	0,58	361.686	1.524.834	129.500	61,6	4,2	53,3	2,6	18,3
Kütahya	2.345.412	2.567.411	8,6	389.382	0,68	80.992	408.428	26.670	65,3	5,0	47,3	2,7	18,4
Malatya	1.716.133	4.183.987	7,7	437.510	0,57	187.197	545.754	61.368	65,0	2,9	81,4	1,6	9,4

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

Table 7.25. Some Health Indicators by Provinces, Turkey, 2012- Continued

	Primary Care Facilities Total	Secondary and Tertiary Health Care Total	Per Capita Visits	Number of Visits Dentist	Per Capita Visits Dentist	Number of Inpatients	Number of Days Stayed In Hospitals	Number of Surgical Operations	Bed Occupancy Rate in Hospital	Average Length of Stay in Hospital	Bed Turn-over Rate in Hospital	Bed Turn-over Interval in Hospital	Crude Death Rate in Hospital
Manisa	4.424.860	7.340.930	8,7	693.159	0,51	216.039	982.664	74.930	69,2	4,5	55,6	2,0	16,2
Kahramanmaraş	2.792.049	4.852.262	7,2	483.145	0,45	137.299	480.458	50.435	63,5	3,5	66,2	2,0	11,5
Mardin	1.430.429	3.254.278	6,1	235.385	0,30	68.931	208.965	27.377	59,1	3,0	71,2	2,1	10,3
Muğla	4.113.399	4.029.580	9,6	351.295	0,41	110.531	358.064	33.371	52,8	3,2	59,5	2,9	14,5
Muş	476.304	1.648.536	5,1	114.312	0,28	49.273	176.928	7.861	79,7	3,6	81,0	0,9	7,1
Nevşehir	1.129.829	1.237.058	8,3	131.380	0,46	41.429	149.770	21.761	67,0	3,6	67,7	1,8	10,2
Niğde	1.133.487	1.469.493	7,6	162.428	0,48	52.428	195.127	10.363	78,7	3,7	77,2	1,0	9,1
Ordu	2.033.650	3.989.737	8,1	296.990	0,40	139.101	490.854	43.325	68,5	3,5	70,9	1,6	13,4
Rize	1.122.909	2.286.751	10,5	180.266	0,56	67.319	252.516	18.099	69,0	3,8	67,2	1,7	18,4
Sakarya	2.664.775	4.324.518	7,7	386.435	0,43	110.442	351.592	47.913	56,7	3,2	65,0	2,4	13,7
Samsun	4.155.120	7.756.436	9,5	905.594	0,72	245.128	1.151.769	88.815	76,2	4,7	59,2	1,5	23,2
Siirt	442.095	1.264.359	5,5	112.476	0,36	49.474	131.804	13.040	58,1	2,7	79,7	1,9	3,4
Sinop	691.647	982.170	8,3	122.354	0,61	27.233	91.842	9.519	50,3	3,4	54,5	3,3	18,8
Sivas	1.748.136	3.469.756	8,4	372.295	0,60	118.954	604.441	40.437	68,9	5,1	49,5	2,3	17,3
Tekirdağ	3.039.846	4.087.170	8,4	527.441	0,62	107.669	352.595	35.729	53,2	3,3	59,3	2,9	19,8
Tokat	1.654.814	3.433.811	8,3	325.817	0,53	102.993	438.645	35.607	68,4	4,3	58,6	2,0	15,9
Trabzon	2.711.309	5.026.084	10,2	428.125	0,56	173.764	903.622	61.192	72,6	5,2	51,0	2,0	18,2
Tunceli	133.280	264.515	4,6	47.108	0,55	6.345	27.183	2.511	40,9	4,3	34,9	6,2	3,9
Şanlıurfa	3.200.146	10.894.852	8,0	440.179	0,25	241.375	667.846	64.738	72,4	2,8	95,5	1,1	10,3
Uşak	1.196.298	1.915.364	9,1	151.759	0,44	69.409	228.903	26.082	64,1	3,3	71,0	1,8	20,4
Van	1.954.293	4.660.931	6,3	219.463	0,21	142.496	475.274	44.102	57,2	3,3	62,6	2,5	10,0
Yozgat	1.084.766	2.294.836	7,5	202.191	0,45	57.366	186.014	15.113	51,6	3,2	58,1	3,0	14,5
Zonguldak	1.706.375	3.886.495	9,2	365.715	0,60	112.022	487.119	34.470	65,3	4,3	54,8	2,3	18,0
Aksaray	1.232.411	1.607.328	7,5	139.034	0,37	51.366	129.815	15.210	47,0	2,5	67,9	2,8	9,8
Bayburt	188.297	320.544	6,7	49.448	0,65	10.062	52.206	3.557	95,4	5,2	67,1	0,3	11,1
Karaman	740.002	1.181.454	8,2	121.814	0,52	31.102	127.788	10.370	58,3	4,1	51,8	2,9	16,6
Kırıkkale	908.332	1.499.816	8,8	219.537	0,80	40.132	224.406	12.057	62,0	5,6	40,5	3,4	21,6
Batman	942.738	2.614.913	6,7	159.510	0,30	78.480	230.006	31.869	60,5	2,9	75,3	1,9	16,5
Şırnak	493.236	1.744.795	4,8	118.227	0,25	46.824	130.063	14.836	61,1	2,8	80,3	1,8	9,6
Bartın	738.337	921.948	8,8	111.902	0,59	24.923	113.694	4.708	74,7	4,6	59,8	1,5	22,2
Ardahan	190.526	388.981	5,4	46.928	0,44	10.101	40.232	2.727	44,1	4,0	40,4	5,1	15,4
Iğdır	413.785	796.279	6,4	107.925	0,57	14.580	56.044	4.880	54,1	3,8	51,3	3,3	14,0
Yalova	838.072	1.157.545	9,4	98.720	0,47	27.399	79.469	9.858	62,4	2,9	78,5	1,7	23,0
Karabük	782.547	1.431.467	9,8	161.605	0,72	44.819	170.773	13.985	69,5	3,8	66,6	1,7	21,0
Kilis	495.776	642.666	9,2	64.446	0,52	18.642	57.193	6.332	96,7	3,1	115,1	0,1	15,1
Osmaniye	1.633.561	2.499.189	8,4	272.161	0,55	95.424	254.220	38.539	72,8	2,7	99,7	1,0	10,0
Düzce	1.310.639	1.503.527	8,1	140.576	0,41	42.943	138.939	17.905	56,8	3,2	64,1	2,5	15,8
Türkiye	235.137.151	386.649.146	8,2	35.282.921	0,47	11.978.827	47.510.099	4.410.218	65,1	4,0	59,9	2,1	16,2

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

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 data of the Ministry of National Defence (MoND) has been included only for 2012, and has been included in Private Sector to be comparable.
- 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 has 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 and 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. I It is calculated as follows: $(\text{Number of Days Stayed}) / (\text{discharged} + \text{deceased})$ number of patients.
- **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: $(\text{Number of Beds} \times 365 - (\text{Number of Days Stayed}) / \text{number of patients} (\text{discharged} + \text{deceased}))$.
- **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. $(\text{Number of people who died}) / (\text{discharged} + \text{deceased}) \times 1.000$.
- In the tables and graphs related to the imaging devices and their numbers, in the “Ministry of Health” chapter: the devices, the number of fixtures and imaging devices, which are used by the Ministry of Health through service procurement from external sources, are included.
- 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 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 7.36 and Figure 7.37 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
Specialist Physicians	45.457	60.655	63.563	66.064	70.103
General Practitioners	30.900	35.911	38.818	39.712	38.877
Medical Residents	15.592	22.075	21.066	20.253	20.792
Physicians Total	91.949	118.641	123.447	126.029	129.772
Dentists	16.371	20.589	21.432	21.099	21.404
Pharmacists	22.289	25.201	26.506	26.089	26.571
Nurses	72.393	105.176	114.772	124.982	134.906
Midwives	41.479	49.357	50.343	51.905	53.466
Other Health Personnel	50.106	93.550	99.302	110.862	122.663
Other Personnel and Procurement of Services	83.964	197.386	198.694	209.126	209.736
TOTAL	378.551	609.900	634.496	670.092	698.518

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

Table 8.2. Distribution of Health Care Professionals by Sectors and Titles, 2012

	Ministry of Health	University	Private	Other	Total
Specialist Physicians	34.069	13.544	21.252	1.238	70.103
General Practitioners	32.457	215	6.184	21	38.877
Medical Residents	7.137	13.238	0	417	20.792
Physicians Total	73.663	26.997	27.436	1.676	129.772
Dentists	7.291	1.012	12.913	188	21.404
Pharmacists	1.920	271	24.298	82	26.571
Nurses	92.118	20.287	19.792	2.709	134.906
Midwives	48.409	764	4.224	69	53.466
Other Health Personnel	83.542	10.382	28.143	596	122.663
Other Personnel and Procurement of Services	181.824	9.017	18.895	-	209.736
TOTAL	488.767	68.730	135.701	5.320	698.518

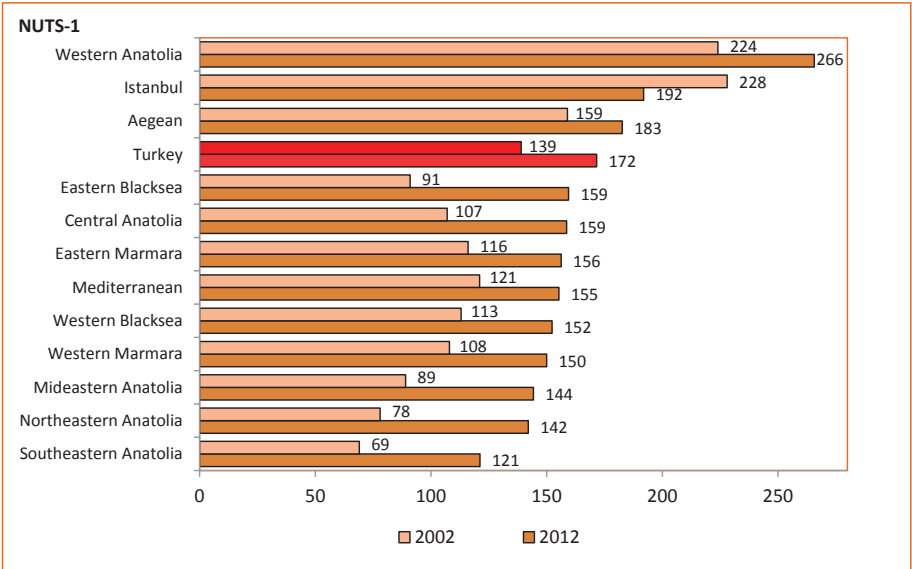
Source: General Directorate for Health Services, General Directorate for Management Services

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

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

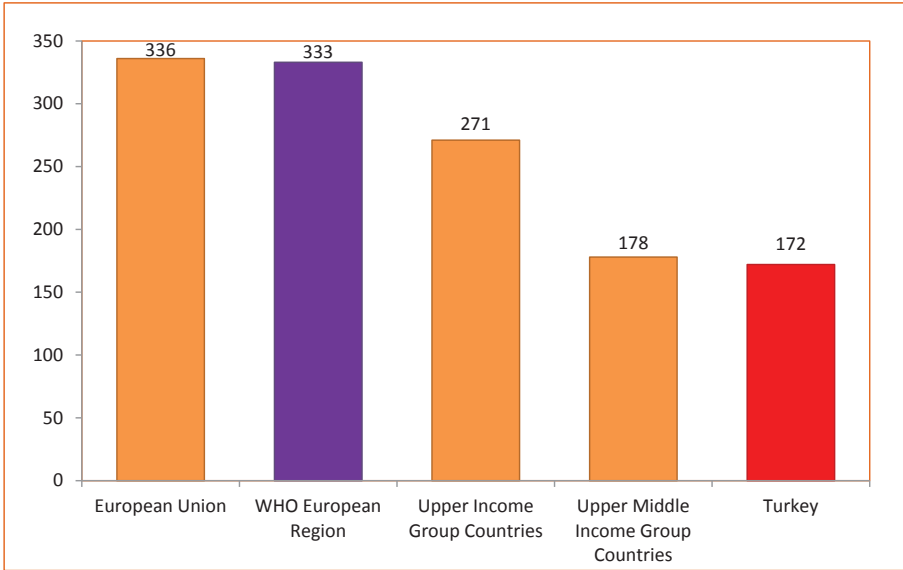
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.1. Number of Total Physicians per 100.000 Population by NUTS-1, All Sectors, 2002, 2012



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

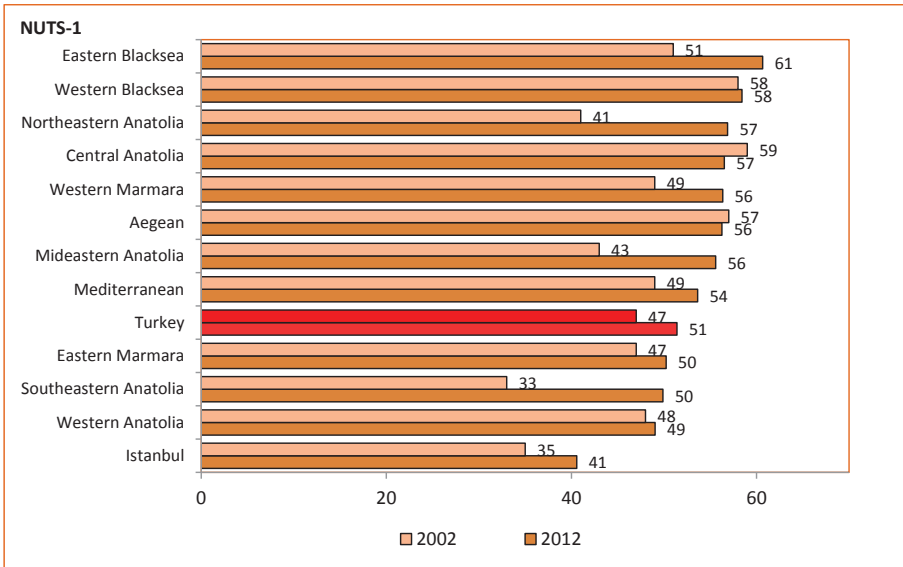
Figure 8.2. International Comparison of Number of Physicians per 100.000 Population, 2011



Source: General Directorate for Health Services, General Directorate for Management Services, WHO World Health Statistics 2013, The EU in the World 2013

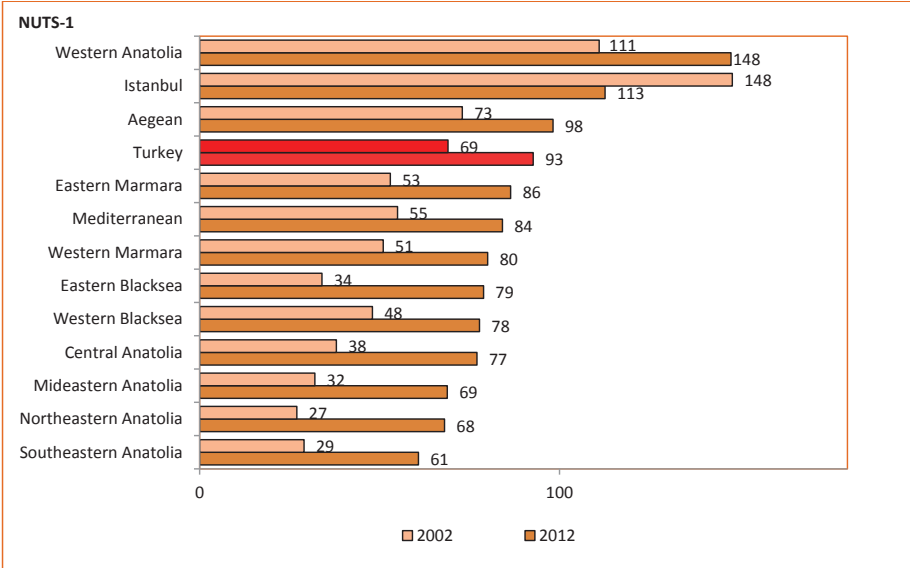
Note: Turkey's data belongs to 2012

Figure 8.3. Number of General Practitioners per 100.000 Population by NUTS-1, All Sectors, 2002, 2012



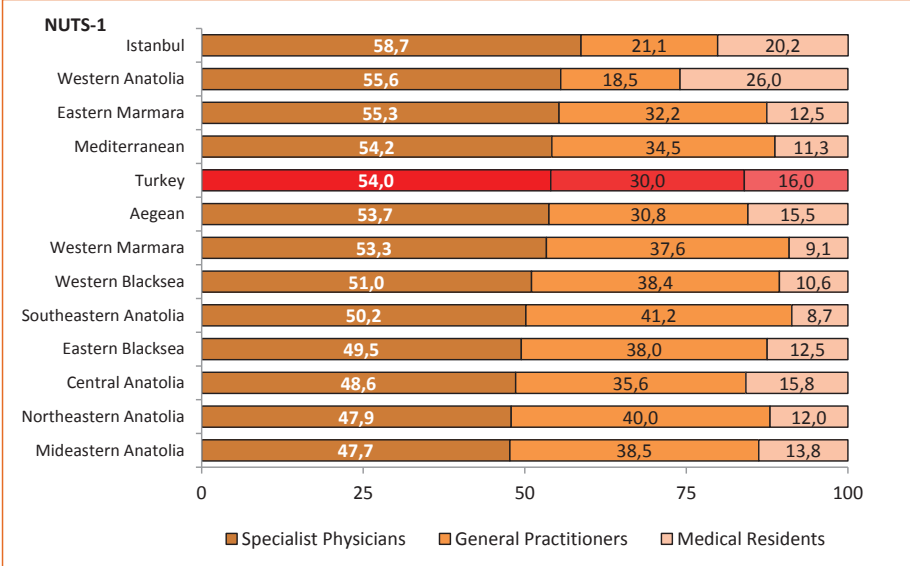
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.4. Number of Specialist Physicians per 100.000 Population by NUTS-1, All Sectors, 2002, 2012



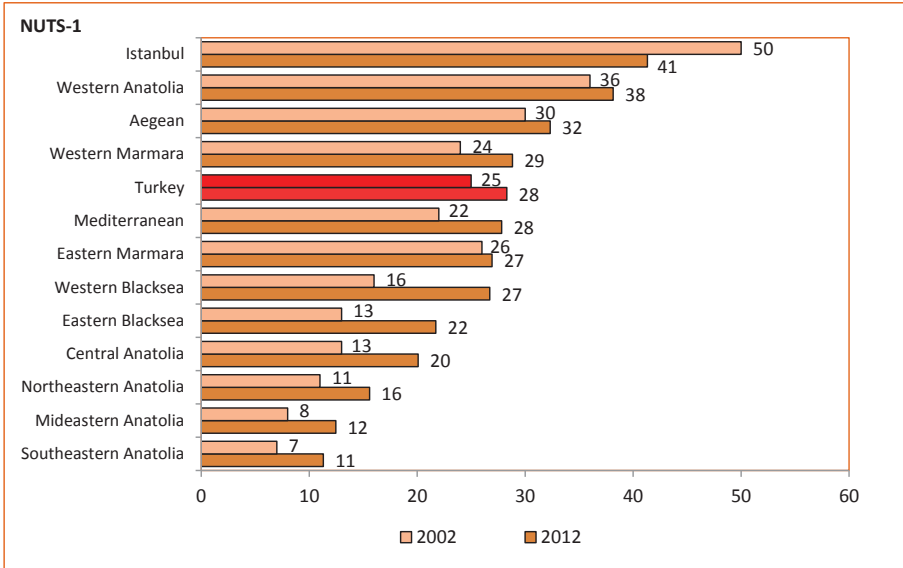
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.5. Proportion of Specialist Physicians, Medical Residents and General Practitioners by NUTS-1, All Sectors, (%), 2012



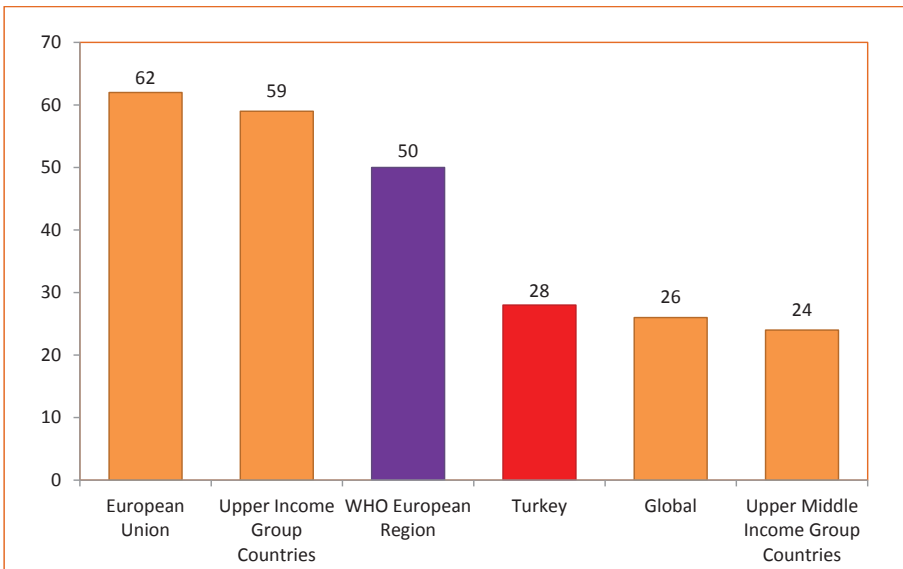
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.6. Number of Dentists per 100.000 Population by NUTS-1, All Sectors, 2002, 2012



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

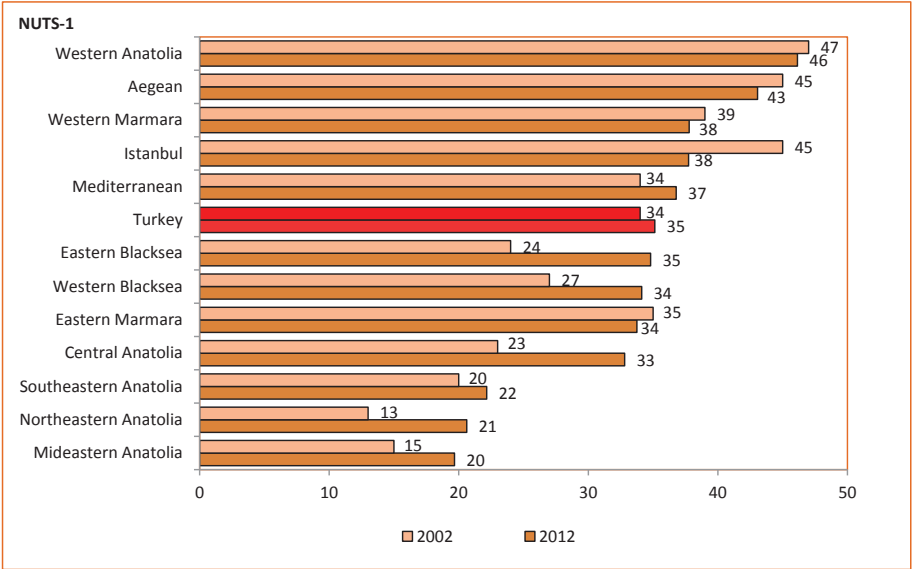
Figure 8.7. International Comparison of Number of Dentists per 100.000 Population, 2011



Source: General Directorate for Health Services, General Directorate for Management Services, WHO World Health Statistics 2013, The EU in the World 2013

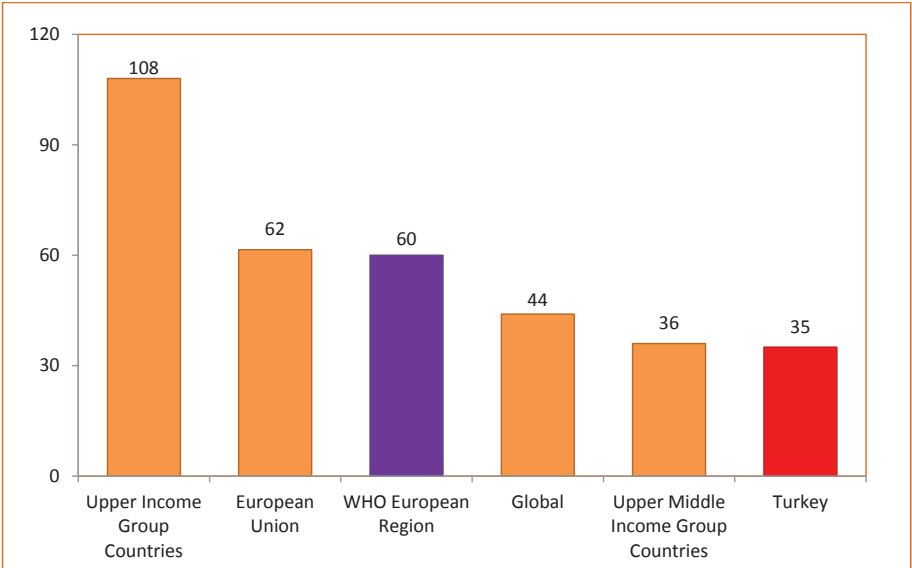
Note: Turkey's data belongs to 2012

Figure 8.8. Number of Pharmacists per 100.000 Population by NUTS-1, All Sectors, 2002, 2012



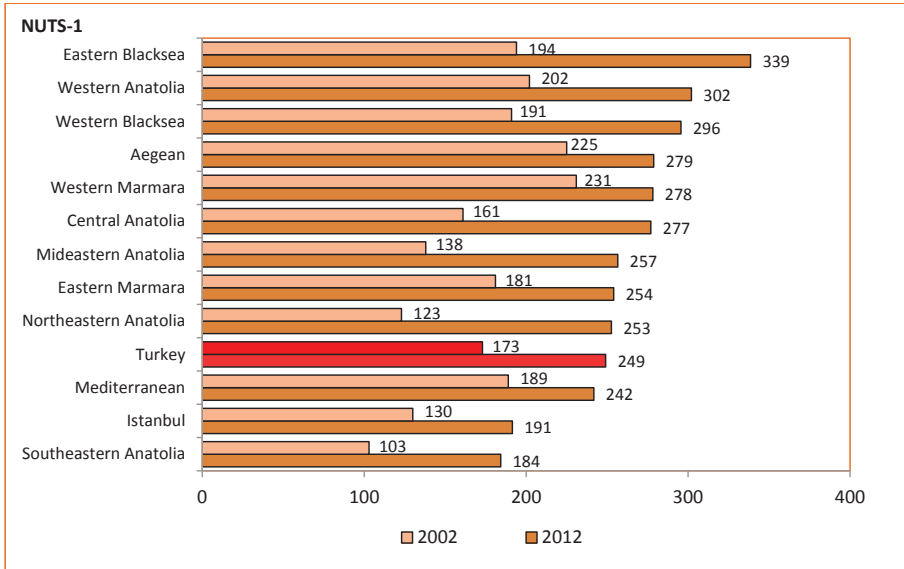
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.9. International Comparison of Number of Pharmacists per 100.000 Population, 2011



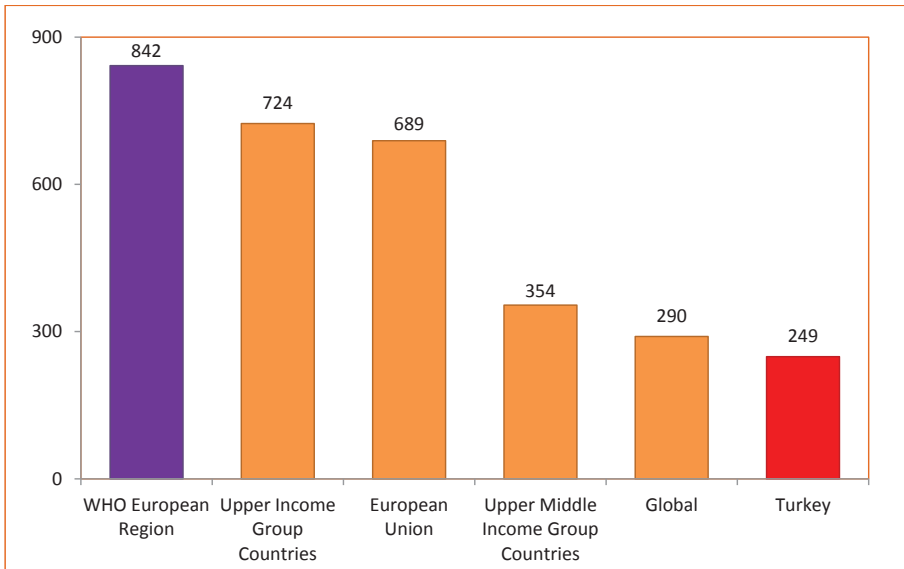
Source: General Directorate for Health Services, General Directorate for Management Services, WHO World Health Statistics 2013, The EU in the World 2013
Note: Turkey's data belongs to 2012

Figure 8.10. Number of Nurses and Midwives per 100.000 Population by NUTS-1, All Sectors, 2002, 2012



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

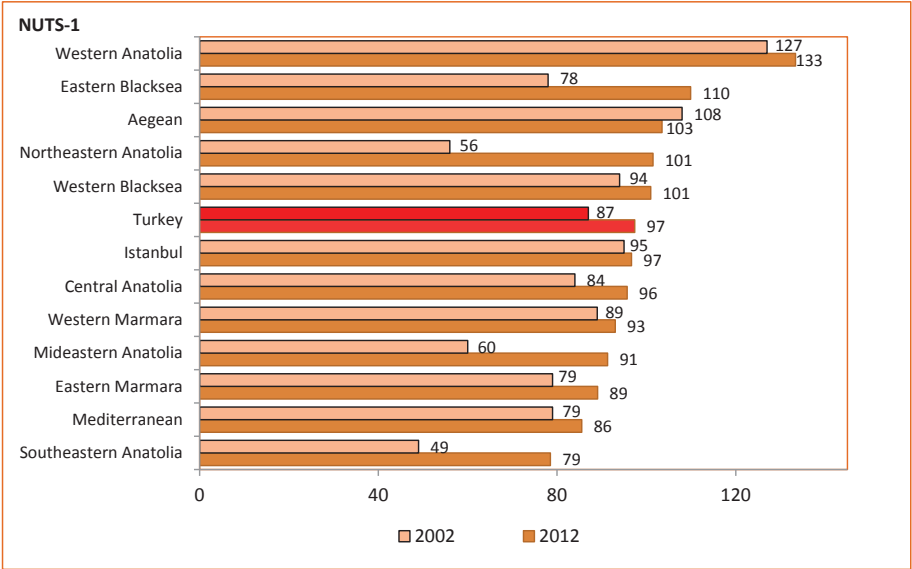
Figure 8.11. International Comparison of Number of Nurses and Midwives per 100.000 Population, 2011



Source: General Directorate for Health Services, General Directorate for Management Services, WHO World Health Statistics 2013, The EU in the World 2013

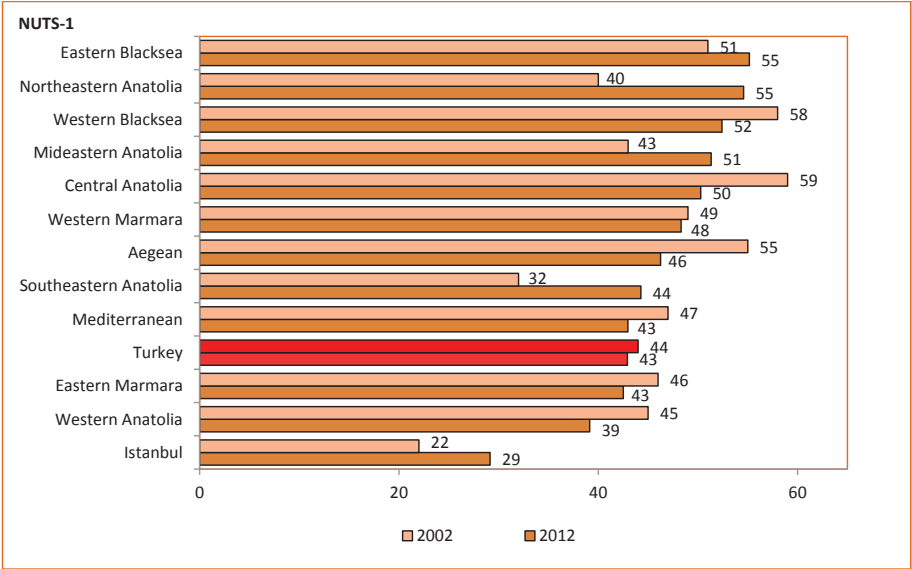
Note: Turkey's data belongs to 2012

Figure 8.12. Number of Total Physicians per 100.000 Population by NUTS-1, MoH, 2002, 2012



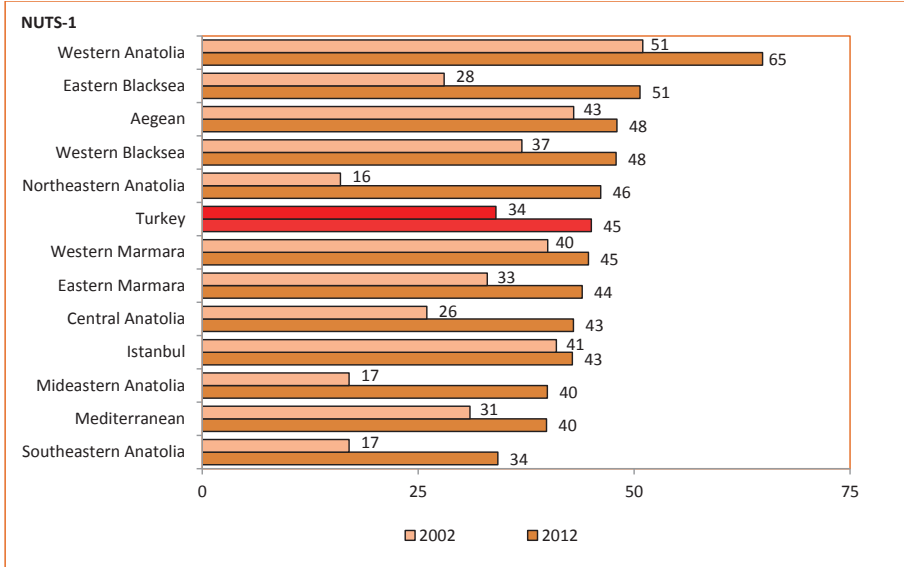
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.13. Number of General Practitioners per 100.000 Population by NUTS-1, MoH, 2002, 2012



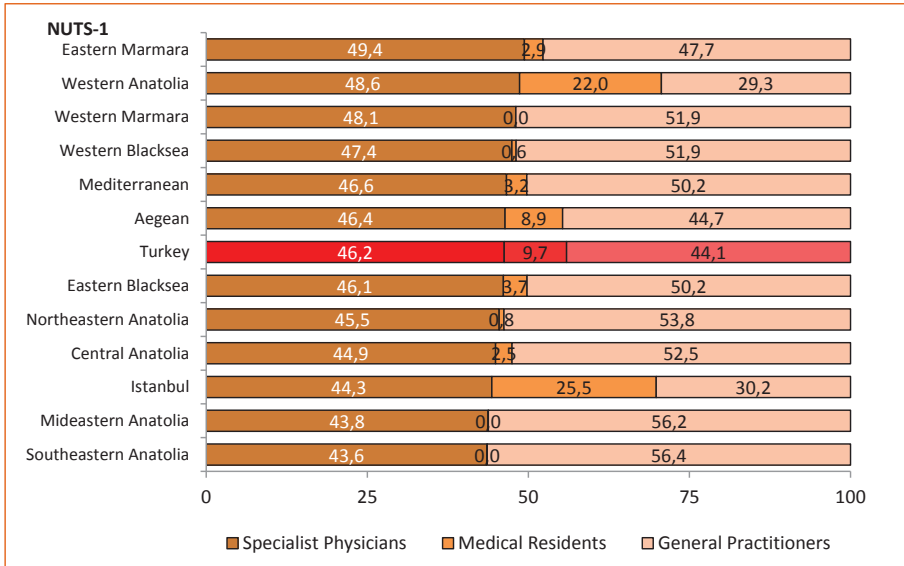
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.14. Number of Specialist Physicians per 100.000 Population by NUTS-1, MoH, 2002, 2012



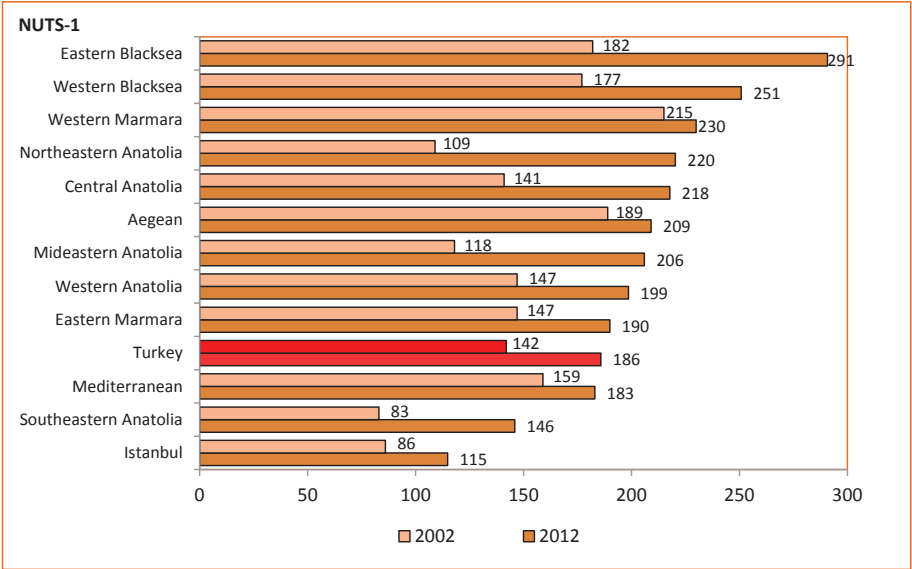
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.15. Proportion of Specialist Physicians, Medical Residents and General Practitioners by NUTS-1, MoH, (%), 2012



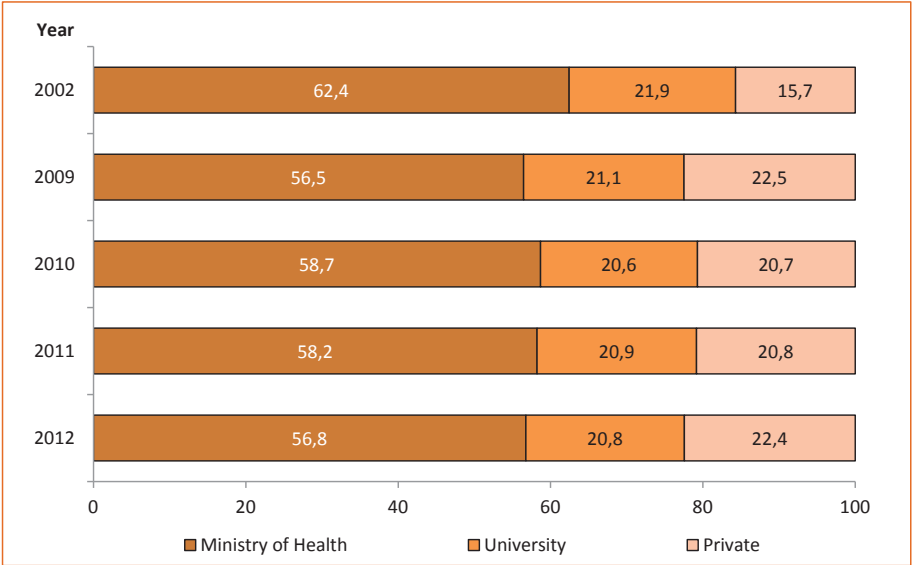
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.16. Number of Nurses and Midwives per 100.000 Population by NUTS-1, MoH, 2002, 2012



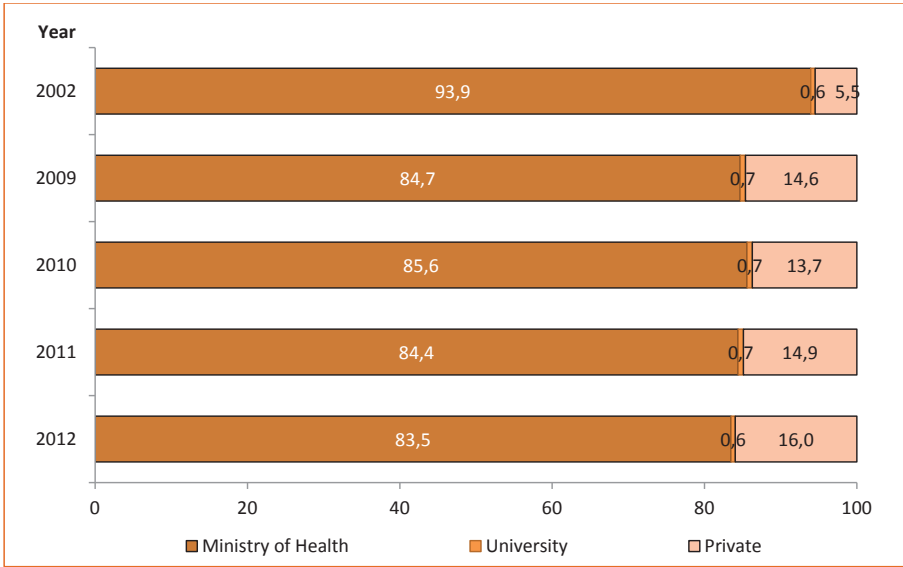
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.17. Proportion of Total Physicians by Years and Sectors, (%), Turkey



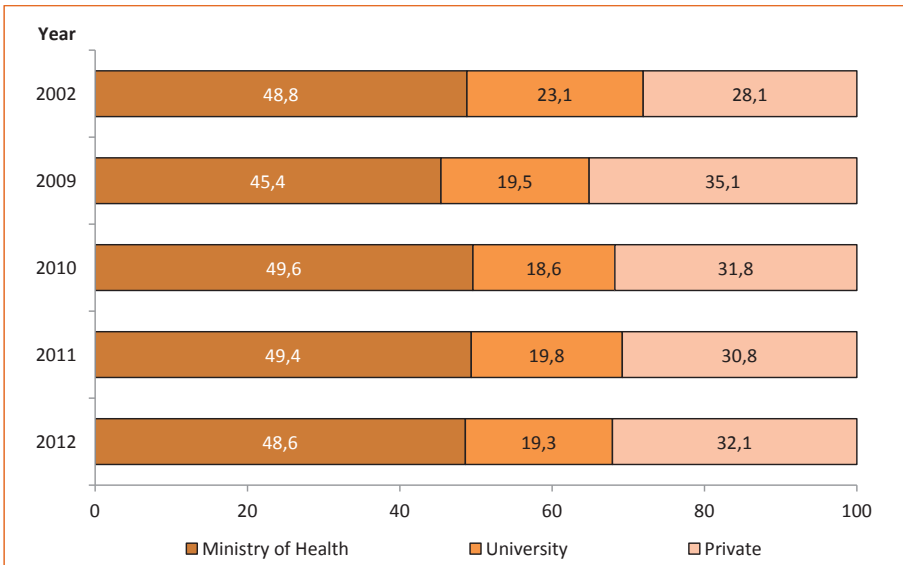
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.18. Proportion of General Practitioners by Years and Sectors, (%), Turkey



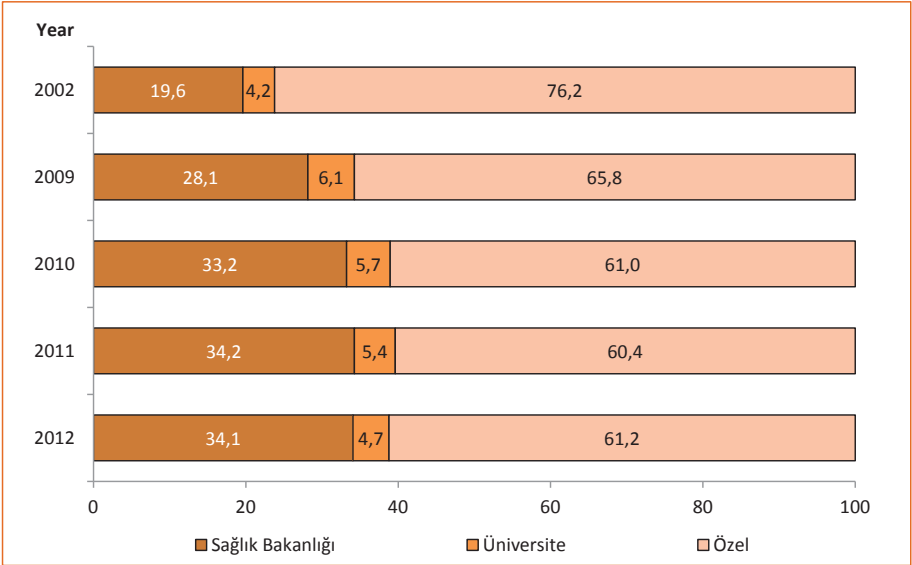
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.19. Proportion of Specialist Physicians by Years and Sectors, (%), Turkey



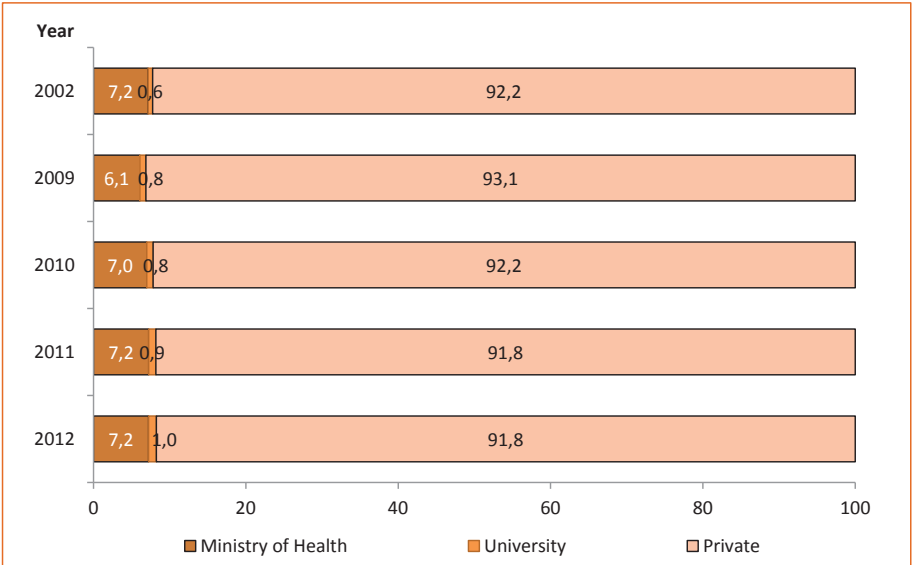
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.20. Proportion of Dentists by Years and Sectors, (%), Turkey



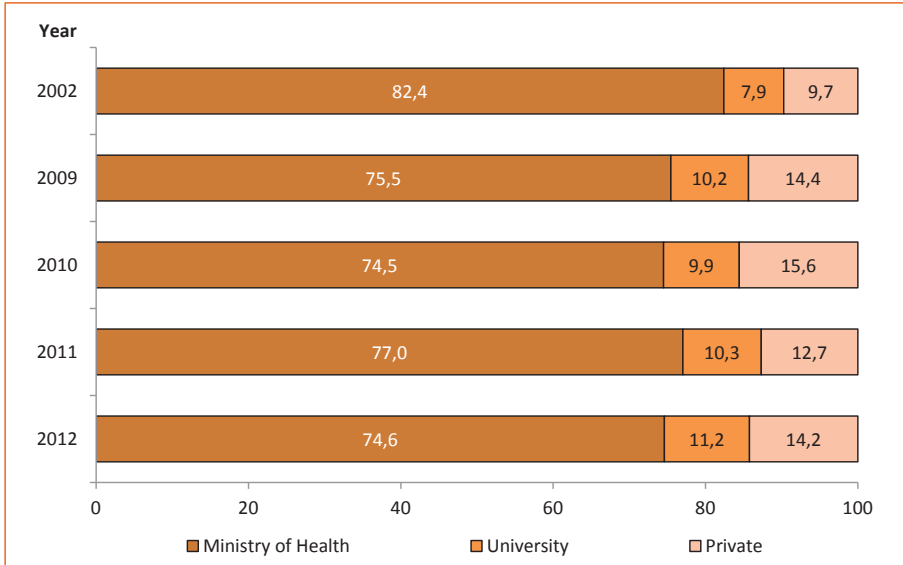
Source: General Directorate for Health Services, General Directorate for Management Services

Figure 8.21. Proportion of Pharmacists by Years and Sectors, (%), Turkey



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

Figure 8.22. Proportion of Nurses and Midwives by Years and Sectors, (%), Turkey



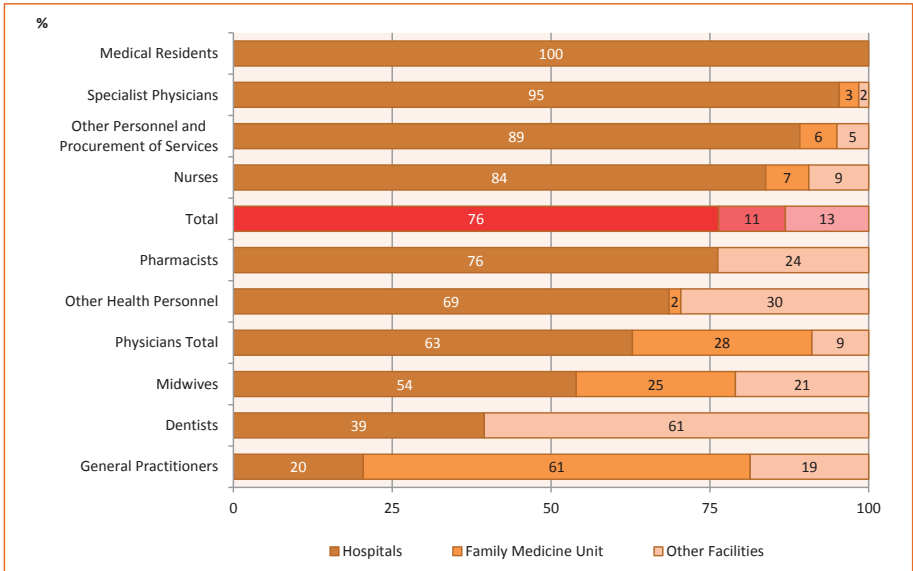
Source: General Directorate for Health Services, General Directorate for Management Services

Table 8.4. Distribution of MoH Personnel by Service Units, MoH, 2012

	Hospitals	Family Medicine Unit	Other Facilities	Total
Specialist Physicians	32.494	1.042	533	34.069
General Practitioners	6.635	19.769	6.053	32.457
Medical Residents	7.137	0	0	7.137
Physicians Total	46.266	20.811	6.586	73.663
Dentists	2.879	0	4.412	7.291
Pharmacists	1.464	0	456	1.920
Nurses	77.180	6.253	8.685	92.118
Midwives	26.121	12.127	10.161	48.409
Other Health Personnel	57.295	1.539	24.708	83.542
Other Personnel and Procurement of Services	162.097	10.624	9.103	181.824
TOTAL	373.302	51.354	64.111	488.767

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

Figure 8.23. Distribution of MoH Personnel by Service Units, (%), MoH, 2012



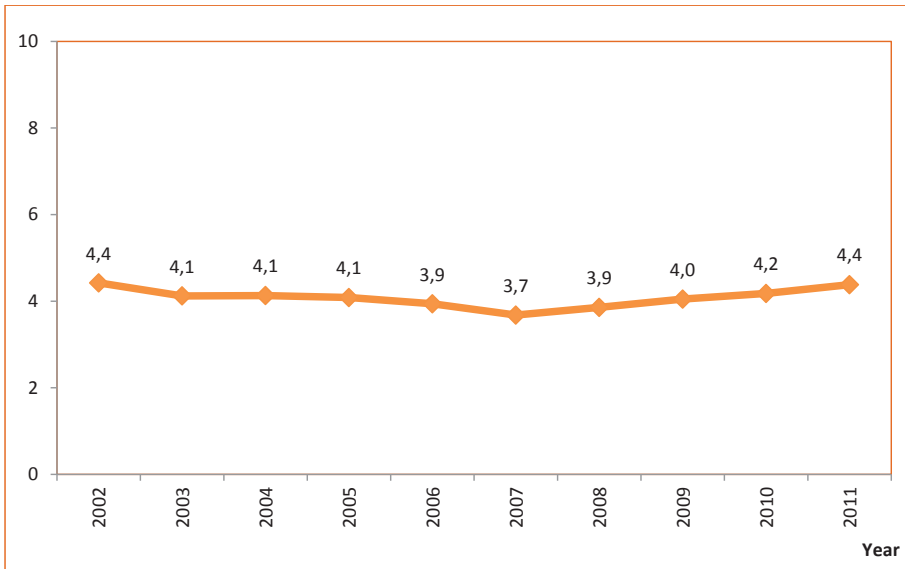
Source: General Directorate for Health Services, General Directorate for Management Services

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	4.380	7.172
2007-2008	49	5.253	33.782	4.872	9.182
2008-2009	56	6.655	35.454	4.753	9.192
2009-2010	61	7.877	38.369	5.087	9.479
2010-2011	69	8.438	41.664	5.138	9.970
2011-2012	69	9.210	45.732	4.911	10.440

Source: SSPC Higher Education Statistics

Figure 8.24. Number of Students per Academic Staff Member in Faculties of Medicine by Years, Turkey



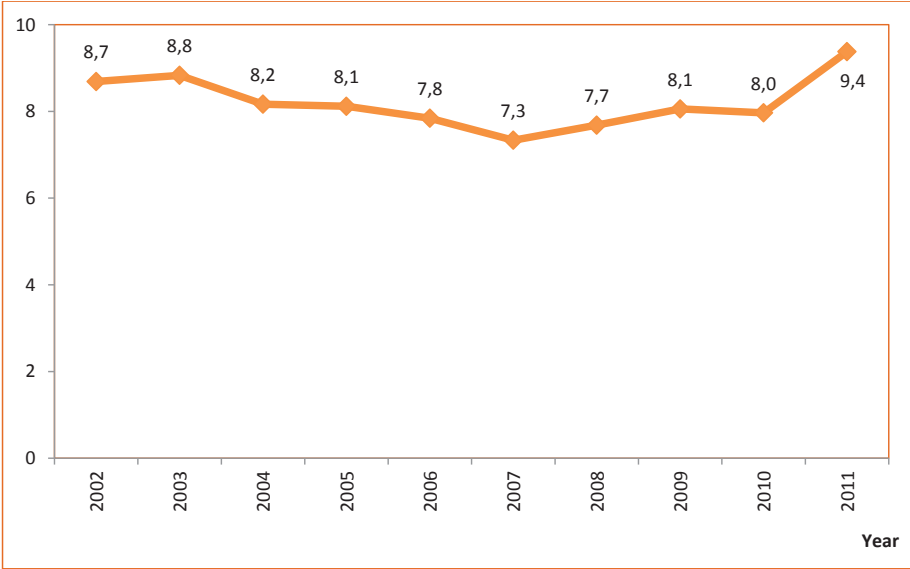
Source: SSPC Higher Education Statistics

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	813	605
2007-2008	18	1.132	5.926	981	808
2008-2009	19	1.458	6.322	994	823
2009-2010	22	1.700	7.082	927	879
2010-2011	27	1.998	7.528	950	945
2011-2012	31	2.347	9.358	1.098	998

Source: SSPC Higher Education Statistics

Figure 8.25. Number of Students per Academic Staff Member in Faculties of Dentistry by Years, Turkey



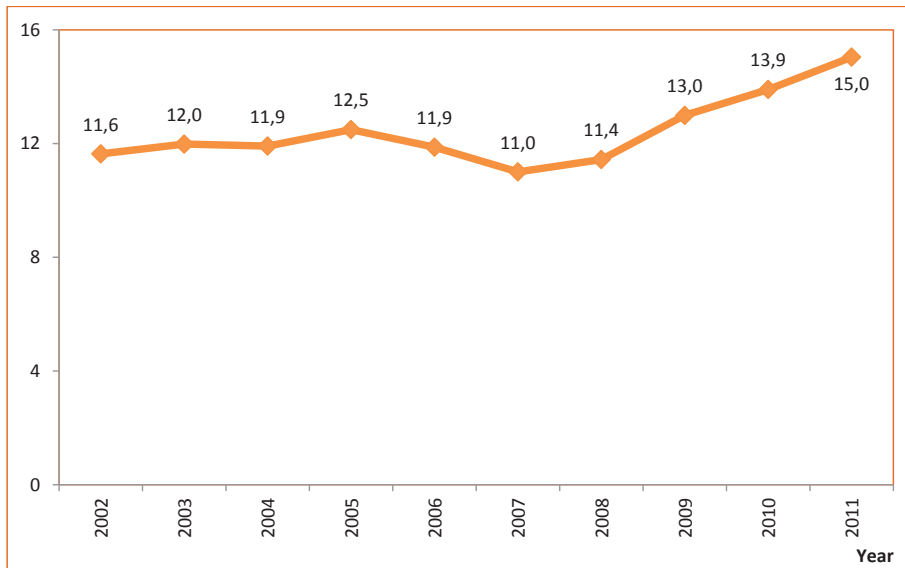
Source: SSPC Higher Education Statistics

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	919	354
2007-2008	12	1.020	4.666	981	424
2008-2009	12	1.195	4.896	966	428
2009-2010	12	1.265	5.821	374	448
2010-2011	15	1.421	6.368	815	458
2011-2012	19	1.483	7.069	998	470

Source: SSPC Higher Education Statistics

Figure 8.26. Number of Students per Academic Staff Member in Faculties of Pharmacy by Education Terms, Turkey



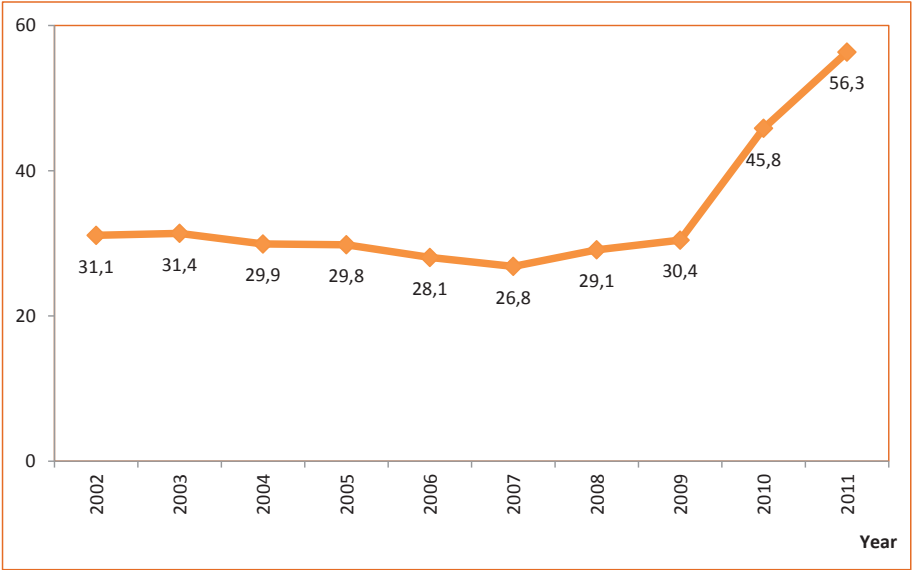
Source: SSPC Higher Education Statistics

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

Education Term	Number of Lecturer in Nursing Higher Schools	Number of Students		
		Recently Enrolled	Still in Education	Graduates
2002-2003	528	3.940	16.423	2.586
2007-2008	762	5.824	20.442	4.113
2008-2009	783	6.570	22.796	3.894
2009-2010	827	6.764	25.176	4.288
2010-2011	628	7.734	28.791	4.358
2011-2012	582	9.164	32.782	5.087

Source: SSPC Higher Education Statistics

Figure 8.27. Number of Students per Lecturer in Bachelor Degree (4-Year) Faculties of Nursing by Years, Turkey



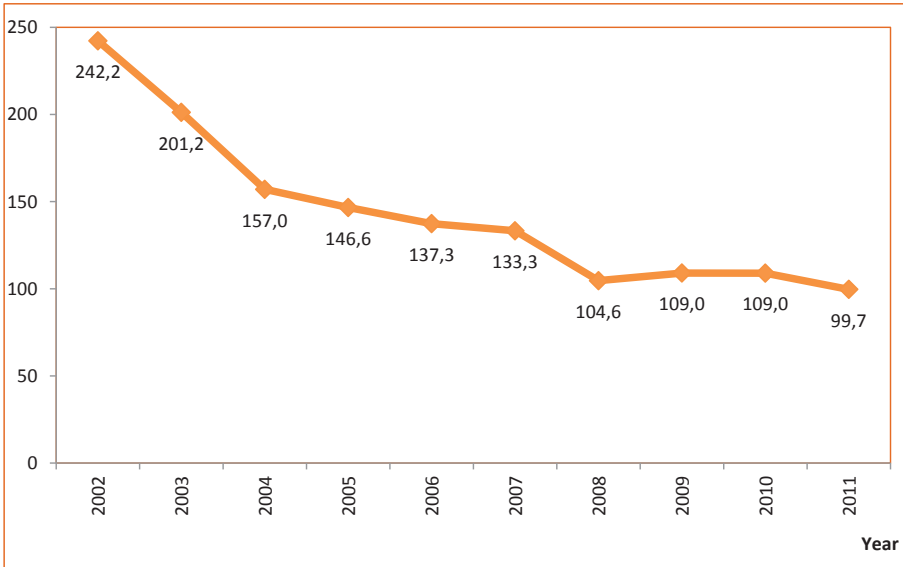
Source: SSPC Higher Education Statistics

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	540	21
2007-2008	32	1.488	5.997	1.160	45
2008-2009	33	1.873	6.382	1.331	61
2009-2010	33	1.898	6.977	1.254	64
2010-2011	33	1.889	7.627	1.307	70
2011-2012	34	1.926	8.072	1.393	81

Source: SSPC Higher Education Statistics

Figure 8.28. Number of Students per Lecturer in Bachelor Degree (4-Year) Faculties of Midwifery by Years, 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	-	-	165	426	942	3.934

Source: General Directorate for Health Services

Table 8.11. Data on Medical Residency Training by Education Terms, 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	4.980
2011-2012	4.752	4.982

Source: SSPC Higher Education Statistics

Table 8.12. Some Health Indicators, by Provinces, Turkey, 2012

	Specialist Physicians	General Practitioners	Medical Residents	Physicians Total	Dentists	Pharmacists	Nurses	Midwives	Other Health Personnel
Adana	1.944	1.109	510	3.563	600	719	3.440	1.363	3.373
Adıyaman	247	304	6	557	65	130	840	443	836
Afyonkarahisar	475	370	155	1.000	120	234	1.177	605	1.347
Ağrı	217	252	0	469	57	86	668	265	529
Amasya	204	184	0	388	92	119	717	362	700
Ankara	8.722	2.284	4.256	15.262	2.267	2.467	12.831	3.065	11.449
Antalya	2.338	1.204	423	3.965	876	1.048	3.648	1.760	3.951
Artvin	90	120	0	210	44	47	367	210	364
Aydın	893	636	204	1.733	324	464	1.838	902	1.649
Balıkesir	806	680	15	1.501	322	466	2.010	1.322	1.859
Bilecik	126	108	0	234	50	60	353	194	358
Bingöl	123	176	0	299	26	52	518	260	475
Bitlis	159	195	0	354	27	51	478	175	409
Bolu	326	152	128	606	71	114	653	251	651
Burdur	159	180	0	339	71	118	522	376	560
Bursa	2.372	1.303	472	4.147	701	917	4.803	1.883	3.784
Çanakkale	434	280	101	815	164	186	1.065	607	865
Çankırı	109	109	0	218	40	62	357	167	526
Çorum	315	311	0	626	122	174	968	473	1.136
Denizli	851	506	300	1.657	326	421	1.810	1.053	1.600
Diyarbakır	1.224	761	357	2.342	238	362	3.131	850	2.054
Edirne	499	222	294	1.015	111	158	1.018	444	854
Elazığ	599	342	287	1.228	92	173	1.342	580	1.197
Erzincan	142	155	0	297	51	62	499	228	487
Erzurum	741	464	334	1.539	151	189	1.721	584	1.481
Eskişehir	895	451	233	1.579	231	351	2.023	729	1.859
Gaziantep	1.330	847	325	2.502	244	490	2.390	937	2.042
Giresun	285	284	0	569	81	149	946	545	1.096
Gümüşhane	84	97	0	181	23	34	276	115	299
Hakkari	103	132	0	235	33	24	304	86	264
Hatay	937	721	162	1.820	359	480	1.848	826	1.857
Isparta	548	256	237	1.041	129	191	1.233	641	1.174
Mersin	1.250	854	207	2.311	348	557	2.525	1.487	2.278
İstanbul	15.608	5.621	5.358	26.587	5.725	5.228	20.798	5.729	15.475
İzmir	5.061	2.139	1.868	9.068	1.593	1.855	8.394	2.647	6.226
Kars	208	162	47	417	34	54	439	298	324
Kastamonu	208	259	1	468	85	126	729	288	791
Kayseri	1.132	649	541	2.322	294	423	2.699	993	2.954
Kırklareli	234	196	0	430	91	138	489	339	529
Kırşehir	140	134	0	274	47	81	408	258	638
Kocaeli	1.413	779	326	2.518	495	465	2.904	1.089	2.367
Konya	1.843	1.126	748	3.717	446	777	3.873	1.478	3.938
Kütahya	314	291	0	605	111	174	1.036	518	1.036
Malatya	764	431	273	1.468	162	225	1.917	860	1.825

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

Table 8.12. Some Health Indicators, by Provinces, Turkey, 2012 - Continued

	Specialist Physicians	General Practitioners	Medical Residents	Physicians Total	Dentists	Pharmacists	Nurses	Midwives	Other Health Personnel
Manisa	1.112	787	234	2.133	295	489	2.371	1.159	2.078
Kahramanmaraş	617	529	144	1.290	174	275	1.514	780	1.719
Mardin	315	382	0	697	92	144	833	406	820
Muğla	667	577	0	1.244	312	452	1.597	925	1.718
Muş	174	198	0	372	32	51	530	241	373
Nevşehir	176	168	0	344	60	111	463	251	737
Niğde	174	178	0	352	68	104	505	310	645
Ordu	482	407	0	889	134	241	1.328	725	1.432
Rize	190	207	60	457	79	104	736	283	535
Sakarya	524	470	75	1.069	206	282	1.108	652	1.342
Samsun	1.244	699	438	2.381	482	447	2.746	1.059	2.636
Siirt	174	194	0	368	33	68	462	179	436
Sinop	113	127	0	240	54	78	452	209	473
Sivas	550	354	249	1.153	118	186	1.287	557	1.225
Tekirdağ	626	452	33	1.111	248	279	1.136	606	1.174
Tokat	415	312	112	839	92	185	1.224	577	1.495
Trabzon	877	429	447	1.753	192	311	2.378	708	2.219
Tunceli	50	64	0	114	15	13	169	163	201
Şanlıurfa	995	870	148	2.013	139	356	1.612	646	1.575
Uşak	229	196	0	425	80	122	692	537	700
Van	613	550	187	1.350	81	150	1.532	483	1.202
Yozgat	245	334	0	579	61	117	737	437	904
Zonguldak	586	349	173	1.108	126	186	1.231	482	958
Aksaray	223	195	0	418	65	133	574	309	651
Bayburt	50	51	0	101	15	17	148	68	171
Karaman	143	147	0	290	54	103	446	215	475
Kırıkkale	329	166	174	669	61	109	619	266	908
Batman	305	279	0	584	44	122	793	228	709
Şırnak	174	236	0	410	26	54	447	176	351
Bartın	110	119	0	229	40	64	322	165	341
Ardahan	66	73	0	139	12	19	185	110	130
Iğdır	91	109	0	200	27	32	278	133	209
Yalova	154	126	0	280	75	81	331	148	405
Karabük	182	151	0	333	65	89	496	230	527
Kilis	74	97	0	171	19	37	191	103	201
Osmaniye	293	302	0	595	117	147	829	445	1.009
Düzce	289	157	150	596	72	112	599	210	513
Turkey	70.103	38.877	20.792	129.772	21.404	26.571	134.906	53.466	122.663

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

Explanations for Chapter 8

→ The numbers of the healthcare professionals 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 Technician, Heart-Lung Pump Operation Technician, Laboratory Technician, Laboratory Technician, Audiologist, Audiometric Technician, Audiometric Technician, Orthopedic Technician, Pathological Anatomy Technician, Perfusion Pump Technician, prosthetic Technician, Psychologist, X-ray Technician, Health Physician, Health Officer of the war, Health Technician, Health Technician, Cytopathologist, Social Worker, Medical Secretary, Medical Technologist, Public Health Technician.

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

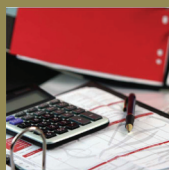
→ The total population in 2002 is given by the TURKSTAT only as a total. The Distribution of the 2002 population by NUTS-1, was projected by taking the distribution of the results of the 2000 Population Census by NUTS-1 into consideration.

→ "Other Institutions" which is indicated in the distribution of the Ministry of Health personnel: include 112 Emergency Center, Tuberculosis Dispensary, Cancer Early Diagnosis and Screening Center, Public Health Laboratory, FP 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 both English and Turkish in different departments and they are not listed separately. The number of faculty members from other departments is not included.

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

→ Professors, associate professors, assistant professors, lecturers, experts, research assistants, 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.



Chapter 9

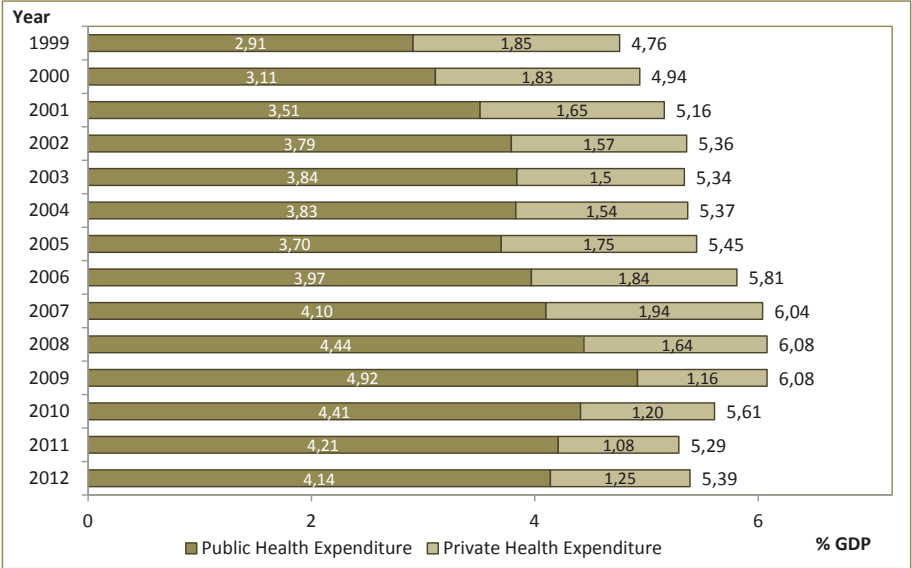
Health Economics and Financing

Table 9.1. Current, Investment, Total Health Expenditure, by Years, 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	4,6	199	0,2	4.985	4,8
	Million USD	261.489	11.965		497,5		12.463	
	Million PPP USD	522.980	23.930		995		24.925	
2000	Million ₺	166.658	7.888	4,7	360	0,2	8.248	4,9
	Million USD	277.763	13.147		600		13.747	
	Million PPP USD	555.527	26.293		1.200		27.493	
2001	Million ₺	240.224	12.086	5	310	0,1	12.396	5,2
	Million USD	200.187	10.072		258		10.330	
	Million PPP USD	600.560	30.215		775		30.990	
2002	Million ₺	350.476	18.331	5,2	443	0,1	18.774	5,4
	Million USD	233.651	12.221		295		12.516	
	Million PPP USD	584.127	30.552		738		31.290	
2003	Million ₺	454.781	23.676	5,2	603	0,1	24.279	5,3
	Million USD	303.187	15.784		402		16.186	
	Million PPP USD	568.476	29.595		754		30.349	
2004	Million ₺	559.033	28.616	5,1	1.405	0,3	30.021	5,4
	Million USD	399.309	20.440		1.004		21.444	
	Million PPP USD	698.791	35.770		1.756		37.526	
2005	Million ₺	648.932	33.292	5,1	2.067	0,3	35.359	5,4
	Million USD	499.178	25.609		1.590		27.199	
	Million PPP USD	811.165	41.615		2.584		44.199	
2006	Million ₺	758.391	40.949	5,4	3.120	0,4	44.069	5,8
	Million USD	541.708	29.249		2.229		31.478	
	Million PPP USD	947.988	51.186		3.900		55.086	
2007	Million ₺	843.178	46.495	5,5	4.409	0,5	50.904	6
	Million USD	648.599	35.765		3.392		39.157	
	Million PPP USD	936.865	51.661		4.899		56.560	
2008	Million ₺	950.534	52.320	5,5	5.420	0,6	57.740	6,1
	Million USD	731.180	40.246		4.169		44.415	
	Million PPP USD	1.056.149	58.133		6.022		64.156	
2009	Million ₺	952.559	55.294	5,8	2.616	0,3	57.911	6,1
	Million USD	635.039	36.863		1.744		38.607	
	Million PPP USD	1.035.390	60.102		2.843		62.947	
2010	Million ₺	1.098.799	58.623	5,3	3.054	0,3	61.678	5,6
	Million USD	732.533	39.082		2.036		41.119	
	Million PPP USD	1.156.631	61.708		3.215		64.924	
2011	Million ₺	1.297.713	65.372	5,0	3.236	0,3	68.607	5,3
	Million USD	763.361	38.454		1.904		40.357	
	Million PPP USD	1.259.916	63.468		3.142		66.609	
2012	Million ₺	1.415.786	72.820	5,1	3.538	0,3	76.358	5,4
	Million PPP USD	786.548	40.456		1.966		42.421	
	Million PPP USD	1.361.333	70.019		3.402		73.421	

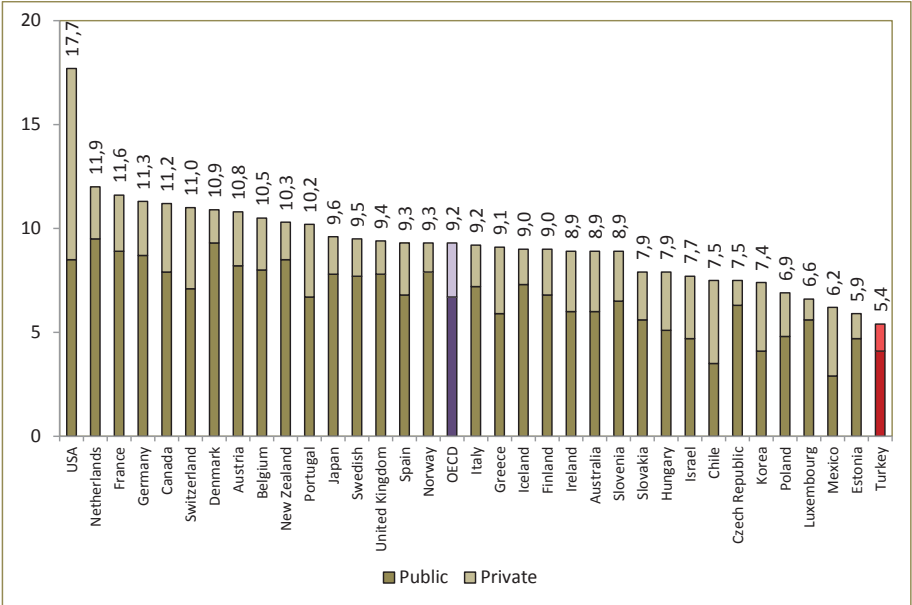
Source: TURKSTAT

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



Source: TURKSTAT

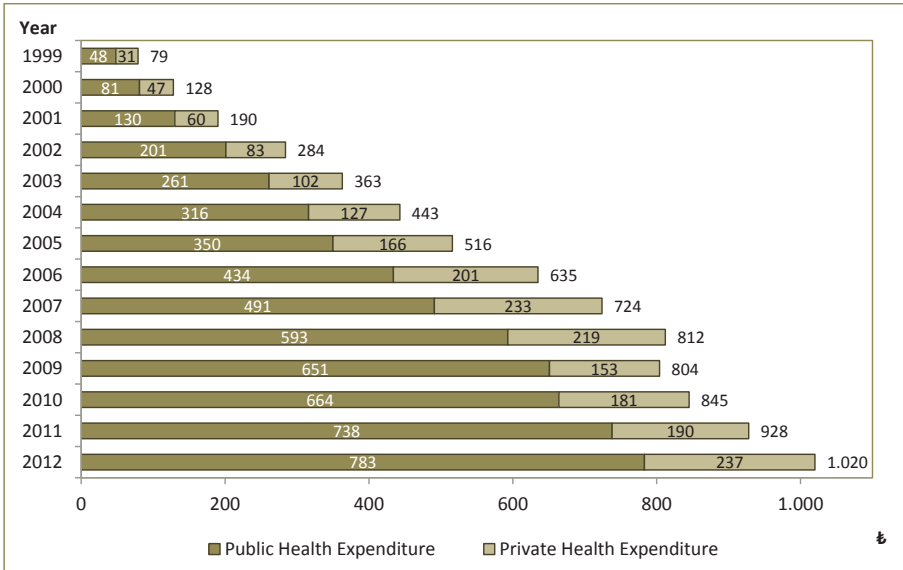
Figure 9.2. Health Expenditure as a Share of GDP in the OECD Countries, (%), 2011



Source: OECD Health Data 2013

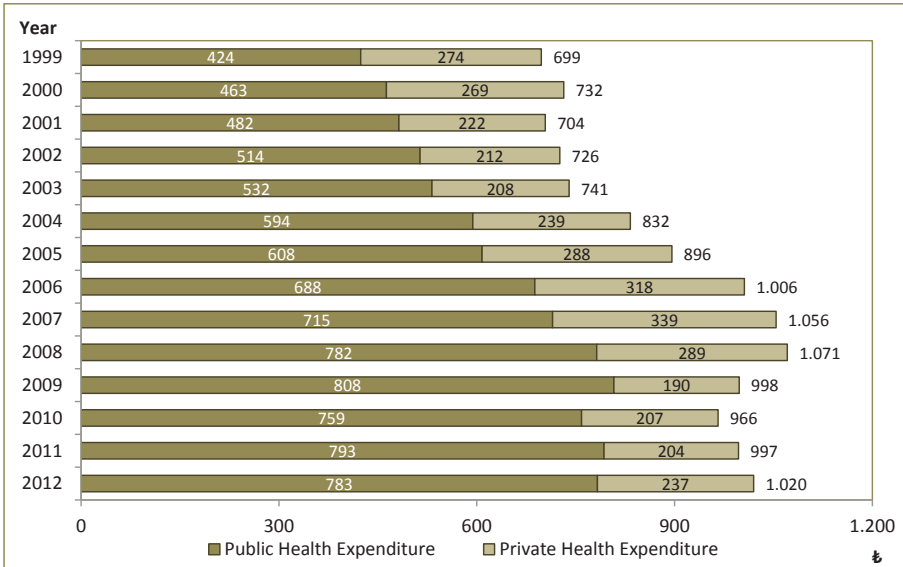
Note: Turkey's data belongs to 2012

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



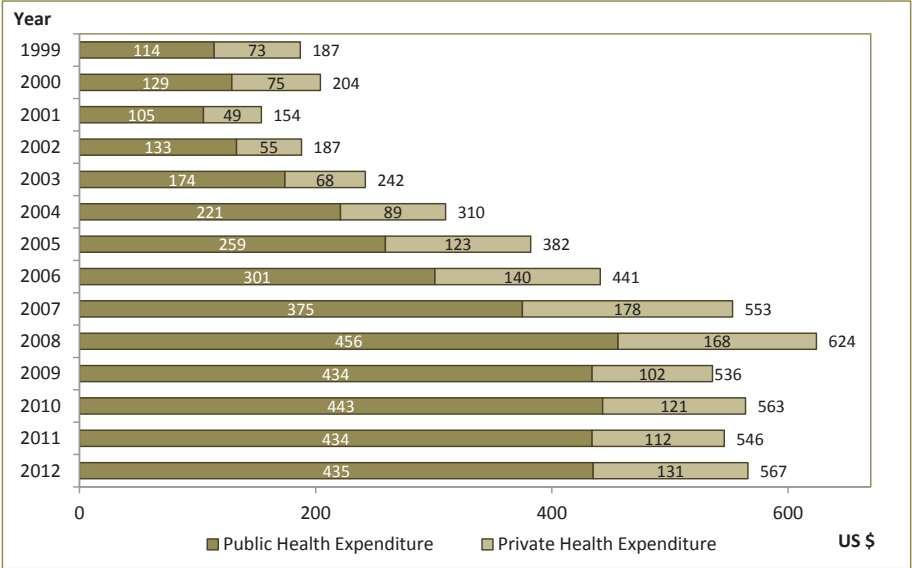
Source: TURKSTAT

Figure 9.4. Public and Private Health Expenditure Per Capita at 2012 Price Level by Years, in ₺, Turkey



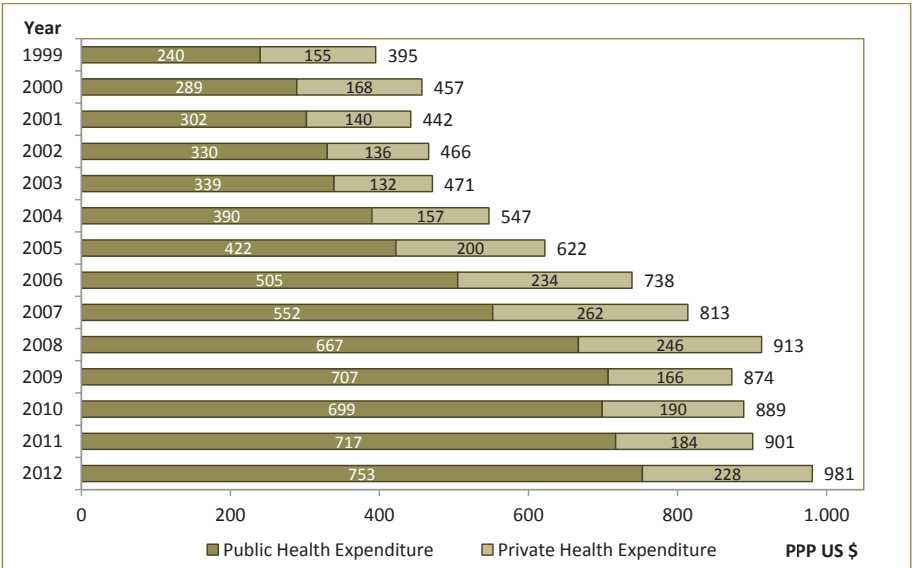
Source: TURKSTAT

Figure 9.5. Public and Private Health Expenditure Per Capita, in US\$, Turkey



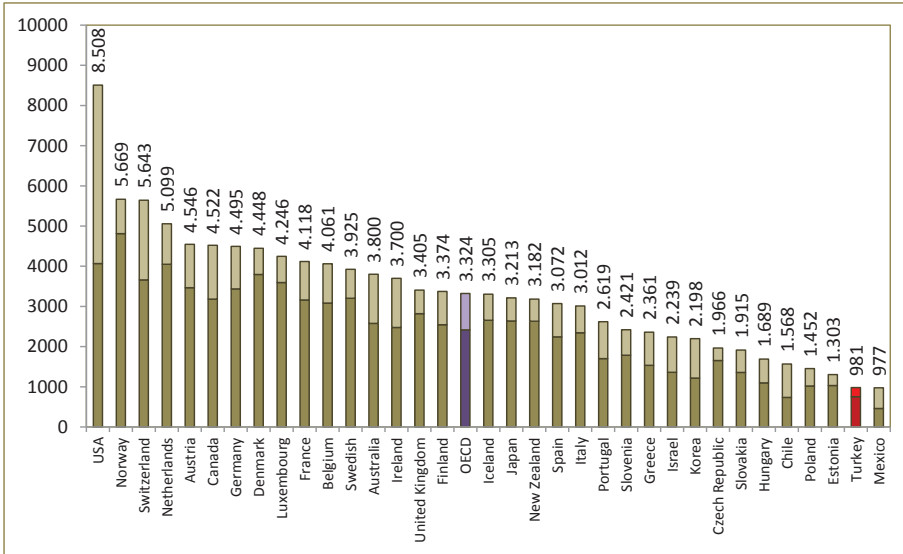
Source: TURKSTAT

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



Source: TURKSTAT

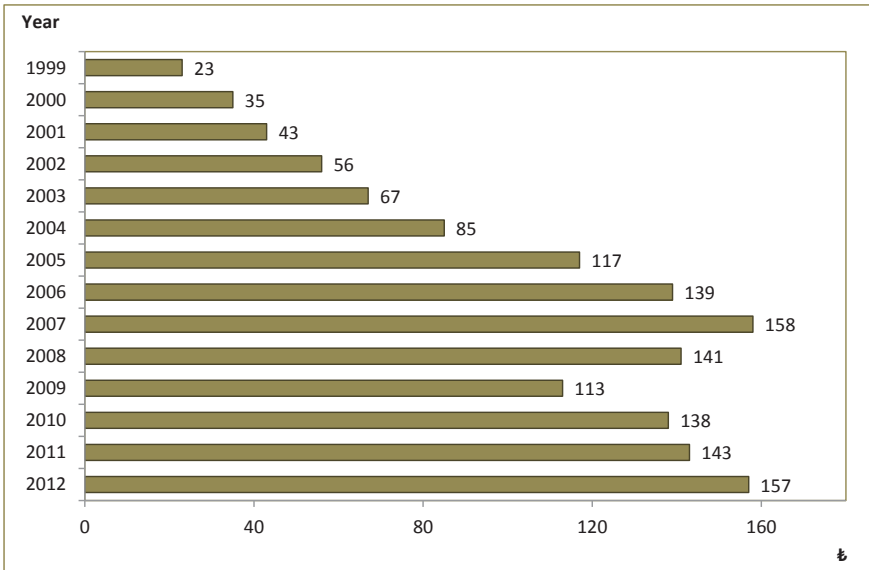
Figure 9.7. Public and Private Health Expenditure per Capita in OECD Countries, PPP US\$, 2011



Source: OECD Health Data 2013

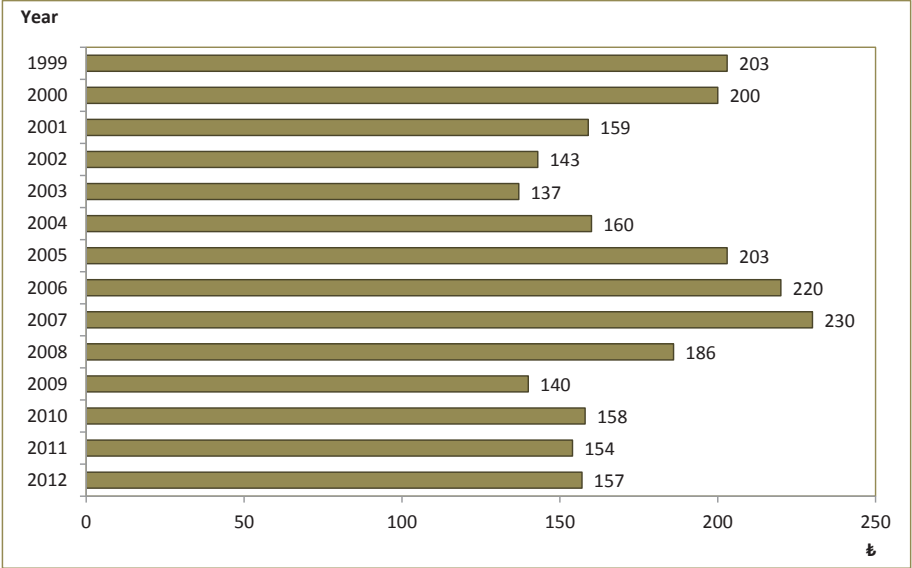
Note: Turkey's data belongs to 2012

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



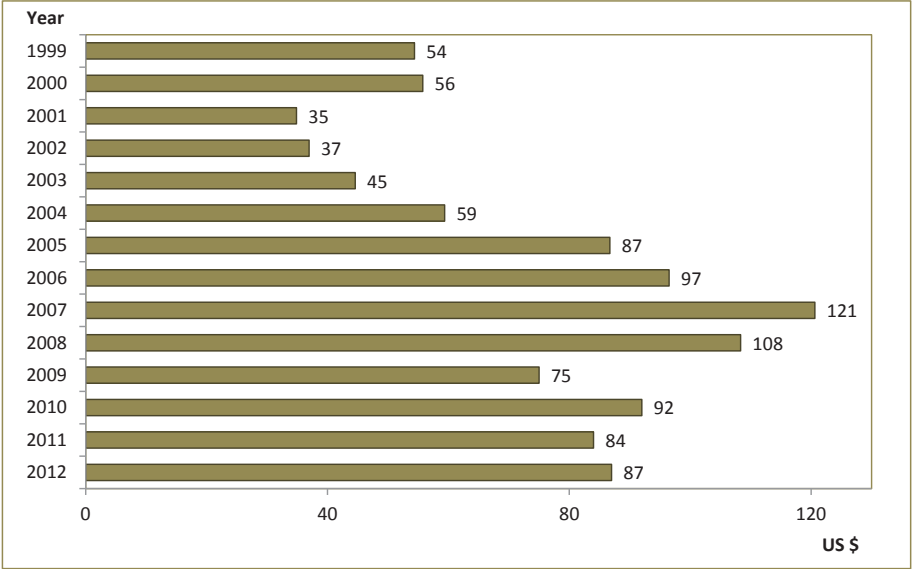
Source: TURKSTAT

Figure 9.9. Out-of-Pocket Health Expenditure per Capita at 2012 Price Level, in ₺, Turkey



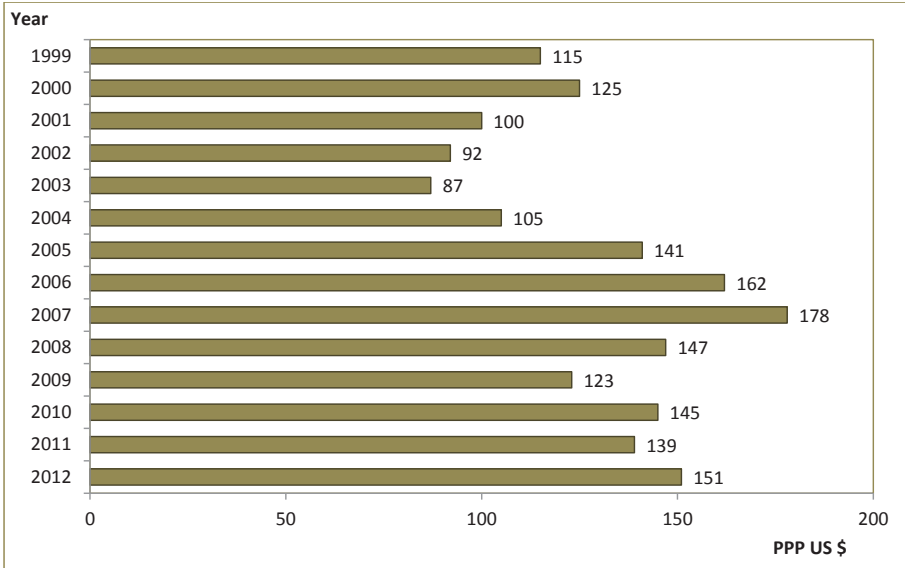
Source: TURKSTAT

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



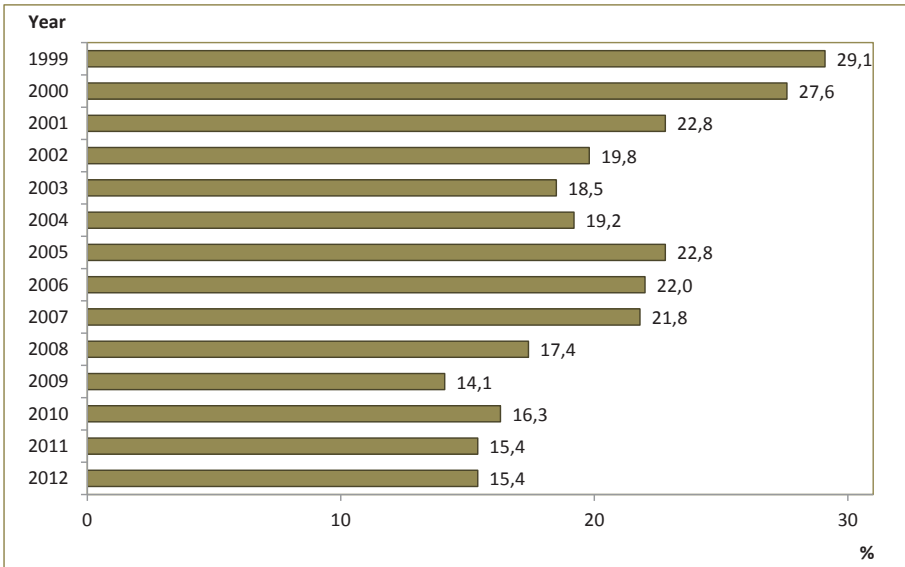
Source: TURKSTAT

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



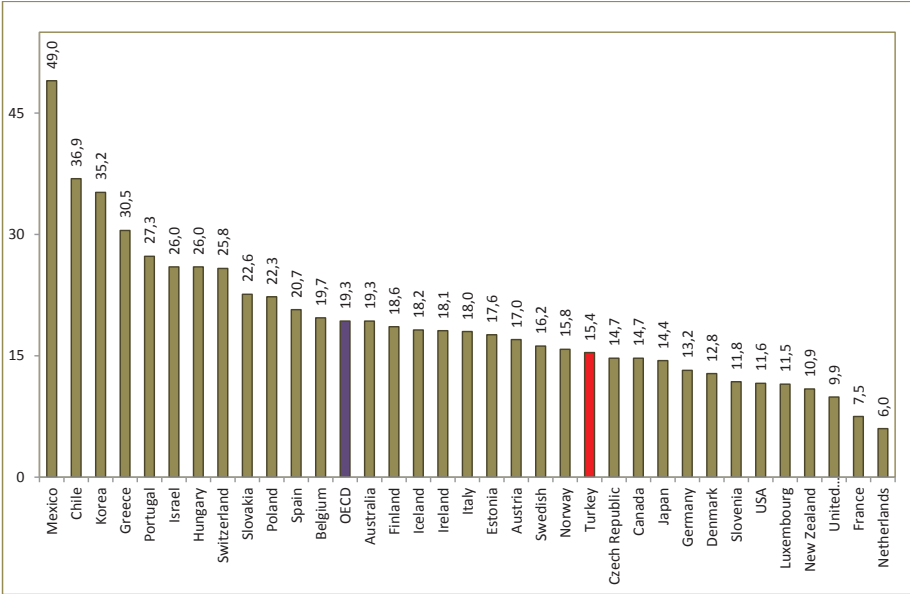
Source: TURKSTAT

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



Source: TURKSTAT

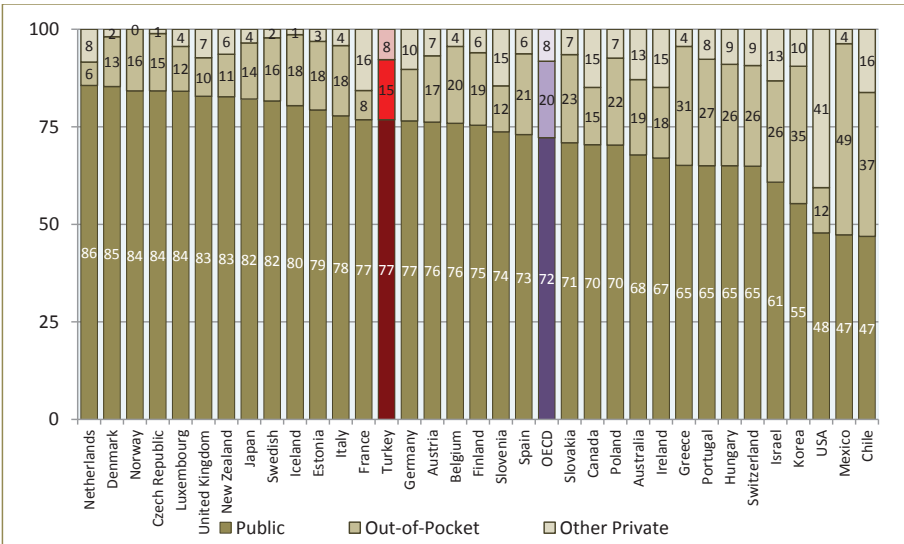
Figure 9.13. Out-of-Pocket Expenditure as a Share of Total Health Expenditure in OECD Countries, (%), 2011



Source: OECD Health Data 2013

Note: Turkey's data belongs to 2012

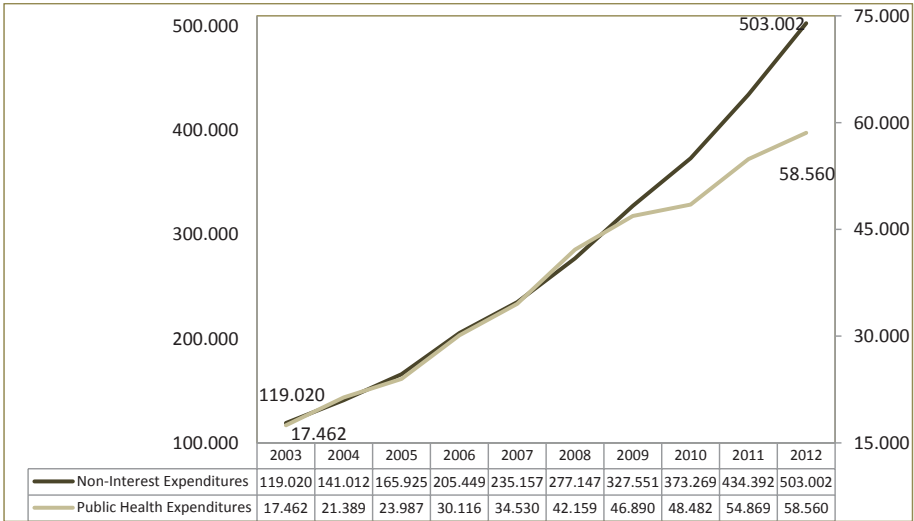
Figure 9.14. Health Expenditure by Financing Type in the OECD Countries, 2011



Source: OECD Health Data 2013

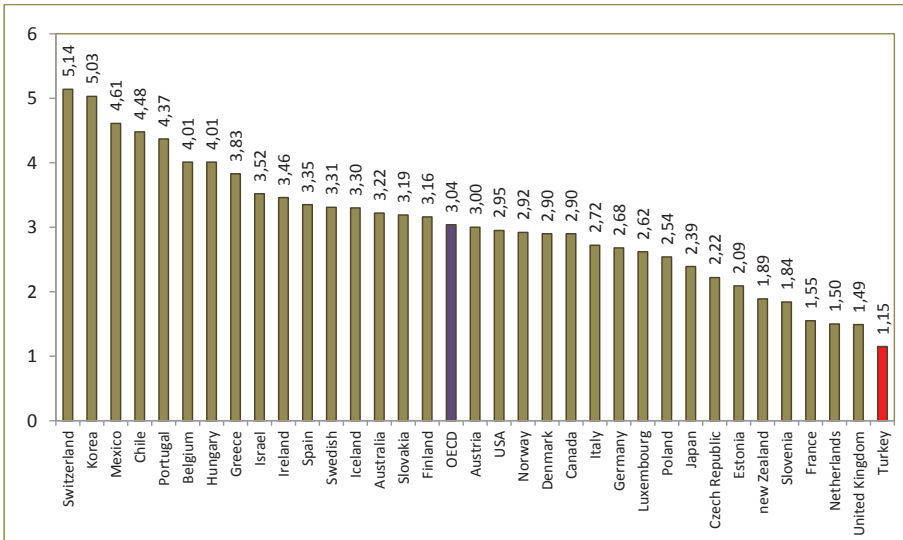
Note: Turkey's data belongs to 2012

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



Kaynak: Kamu Sağlık Harcamaları; 2003-2012 TÜİK, Faiz Dışı Harcamalar; Maliye Bakanlığı, Kalkınma Bakanlığı

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, Directorate General 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.