

**T.C.
MARMARA UNIVERSITY
INSTITUTE FOR GRADUATE STUDIES IN
PURE AND APPLIED SCIENCES**

**MEASUREMENT AND EVALUATION OF HOSPITAL
EFFICIENCY BY DATA
ENVELOPMENT ANALYSIS**

Sinemis ZENGİN

**THESIS
FOR THE DEGREE OF MASTER OF SCIENCE
IN
INDUSTRIAL ENGINEERING**

**SUPERVISOR
Prof. Dr. Nurhan DAVUTYAN**

İSTANBUL 2011

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ÖZET

VERİ ZARFLAMA ANALİZİ İLE HASTANE VERİMLİLİĞİNİN ÖLÇÜMÜ VE DEĞERLENDİRİLMESİ

Günümüzde sağlık sektörü etkinliğinin artırılması önem kazanmıştır. Sağlık harcamalarının en büyük payına sahip olan hastanelerin etkin olarak idare edilmesi hem kalitenin artırılması hem de bütçe giderlerinin azaltılması açısından önemlidir. Sağlık sektörüne özel hastanelerin de dâhil olması ile birlikte rekabet artmış ve devlet hastanelerinin yeniden düzenlenmesi kaçınılmaz olmuştur. Sağlık sektörünün gelişimi için devlet tarafından oluşturulan “Sağlıkta Dönüşüm Programı” ile etkin, ulaşılabilir ve yüksek kalitede sağlık hizmeti hedeflenmiştir.

Bu çalışmada hastane verimliliği açısından kendini kanıtlamış bir yöntem olan veri zarflama analizi kullanılmıştır. Türkiye'nin çeşitli ilçelerinde yer alan 444 devlet hastanesi incelenmiştir. Çalışmada “output-oriented” model kullanılmıştır ve hastanelerin “RTS regions” sınıflandırılması yapılmıştır.

Ortaya çıkan sonuçlar incelendiğinde etkinsizliğin genel olarak ilçelerin aşırı göç almasından ya da göç vermesinden dolayı yaşanan dinamik yapı karşısında hastanelerin uyum sağlayamamasından kaynaklandığı görülmüştür.

Hastanelerin daha etkin hale getirilmesi için önerimiz; temel olarak hastanelerin ulaşılabilirliği göz önüne alınarak, göç kaybeden ilçelerde yer alan diğer bir ifade ile hasta bulamadığı için etkinsiz olan hastanelerin birleştirilmesi, aşırı göç alan ilçelerde yer alan ve hastane kaynakları hasta karşısında yetersiz kalan hastanelerin bölünme yoluna giderek, ihtiyaç olunan bölgede büyüme yoluna gitmesidir.

Aralık, 2011

Sinemis Zengin

ABSTRACT

MEASUREMENT AND EVALUATION OF HOSPITAL EFFICIENCY BY DATA ENVELOPMENT ANALYSIS

Nowadays, boosting the efficiency of health sector has gained importance. Efficient management of hospitals that have the biggest share in health expenditures is significant both for the increase in quality and the decrease in budget costs. With the entrance of private hospitals into health sector, competition has increased, making the regulation of public hospitals inevitable. Efficient, accessible and high quality health service is aimed with “Transformation of Health Program” launched by the government for the development of health sector.

Data envelopment analysis method, a proven method for hospital efficiency, is used for this thesis. 444 public hospitals in various cities of Turkey have been analyzed. In the thesis, “output-oriented” model is used and hospitals have been classified as “RTS regions”.

Analyzing the results, it has been observed that the inefficiency stems from hospitals’ inability to adapt to the dynamic structure arising from extreme immigration figures to and from districts.

Our suggestion for boosting the efficiency of hospitals is that considering the accessibility of hospitals; the ones in emigrant districts in other words the hospitals that are inefficient due to lack of patients are combined and the ones in immigration receiving districts where hospital resources remain incapable be enlarged in needed regions.

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ABBREVIATIONS

ABC : Activity Based Costing

CCR : Charnes, Cooper and Rhodes

CRS : Constant Returns to Scale

DEA : Data Envelopment Analysis

DMU : Decision Making Unit

DRS : Decreasing Returns to Scale

IRS : Increasing Returns to Scale

MOH : Ministry of Health

MPSS : Most Productive Scale Size

OECD : Organization for Economic Co-Operation and Development

RTS : Returns to Scale

VRS : Variable Returns to Scale

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CHAPTER I

INTRODUCTION AND PURPOSE

I.1 INTRODUCTION

Turkish public health system is controlled by the Ministry of Health. The Ministry is vested with the authority to provide medical care and preventive health services, train health personnel, provide pre-service and in-service training, establish and operate health institutions and authorize the establishment and oversee medical institutions by other public and private organizations. The Ministry also regulates prices of medical drugs and controls drug production and operations of pharmacies (TUIK, 2010). The Ministry of Health was established in 1920 and made legal arrangements in many fields between the years 1920-1938. The priority aims of these arrangements were;

- Solving the post-war problems,
- Supporting health personnel in quality and quantity,
- Establish the structure starting from center to village,
- Spreading preventive health services (The Ministry of Health, 2003)

41% of the resources transferred to health sector are subsidized with general tax and fund revenues. The reason of these taxes and funds collected separately from health insurance and retirement fund contributions is not supporting curative health sector; these are the real investments for the development of the country. The expenditures on employees with low labor productivity and curative medical applications constitute the major part of the resources transferred to the sector. Thus, public revenues are squandered. (Savas, 2003)

Increased health expenditure caused argument about health system in Turkey. For more effective health system, new health program started, named as “Health Transformation Program” According to the Ministry of Health report, “Health Transformation Program will deliver the health services in a qualified, effective, sustainable and equal way and will be a system that will assume an increase in income level based on the performance of health performance of health professionals.” And they conclude their report with “All our need is people who are determined and hardworking” (The Ministry of Health, 2003).

Growing health expenditures, increased quality and competition in the health sector put pressure on government hospitals to use their resources more efficiently if they want to compete with the private hospitals (Temur, 2008).

In this thesis study, we aim to show efficiency of Turkey’s public hospitals by using data envelopment analysis techniques. Data envelopment analysis is a very popular and useful technique to evaluate hospitals’ efficiency.

CHAPTER II

DATA ENVELOPMENT ANALYSIS

II.1 DATA ENVELOPMENT ANALYSIS

Recent years have seen a great variety of applications of DEA (Data Envelopment Analysis) for use in evaluating the performances of many different kinds of entities engaged in many different activities in many different contexts in many different countries. One reason is that DEA has opened up possibilities for use in cases which have been resistant to other approaches because of the complex (often unknown) nature of the relations between the multiple inputs and multiple outputs involved in many of these activities (which are often reported in non-commeasurable units) (Cooper, 1999).

DEA is a mathematical optimization model used to measure the relative efficiency of organizations or parts of organizations (referred to as ‘decision-making units’) that have similar attributes and share the same goals and objectives (for example, dairy farms producing milk). This method has been used to evaluate the performance of many different types of organizations performing a variety of activities, including both profit- and nonprofit-making organizations. (Rouse, 2010). DEA has also been used to supply new insights into activities (and entities) that have previously been evaluated by other methods (Cooper, 1999).

According to DEA method, each unit is regarded as a decision-making unit (DMU), and all of the DMUs constitute the groups being evaluated. Then the input output efficiency is analyzed and the production frontier is determined by calculating the weights of the input and output indicator of each DMU. In fact, the production frontier is the effective part of envelopment, which is constructed by the observed input and output data points of each DMU. That is why the method is called data

envelopment analysis. Whether a certain DMU is efficient or not is determined by the distance between its data point and the production frontier. If the data point lies on the production frontier, that means the DMU which it represents is fully technically efficient. The effective DMU can be considered in the ideal status already, in the corresponding scale of input it has been achieved on the largest output. (Tang et. al., 2008)

DEA, the evaluation value is measured by comparing an objective DMU with the best practice frontier which is called “efficiency frontier”. Figure III.2 assumes that there are four DMUs, i.e. soccer teams (A, B, C and D) which have a single input (the number of back passes) and a single output (the number of offensive passes). The larger the ratio of output to input, the more efficient the activity of DMU is. (Aoki, 2009)

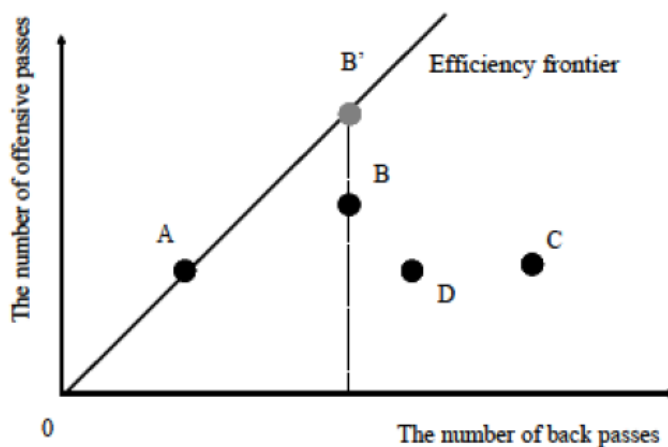


Figure II.1: Efficiency frontier and efficiency value

Another example stated in figure III.3, there are six DMUs (A~F) which have one input and two outputs are evaluated. Each axis indicates outputs divided by input. Therefore, DMU which is far from origin is more efficient. Four DMU (A~D) are the state of efficient since they are located on efficiency frontier. Territory enclosed with origin and efficiency frontier is called possible production set. Then all evaluated DMUs are in this territory. And DMUs which achieve maximum output can be state of efficiency. (Naito et. al., 2009)

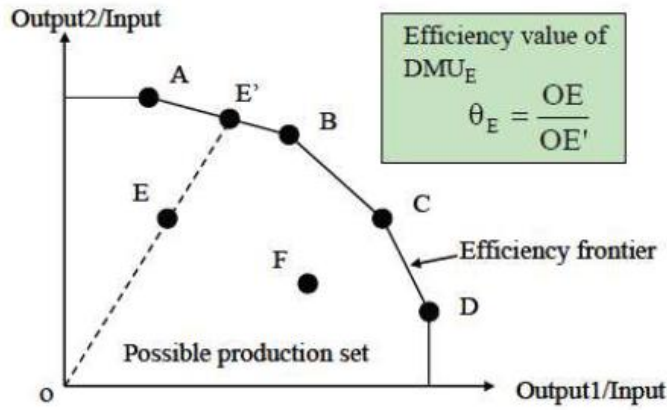


Figure II.2: Efficiency frontier and efficiency value of DMU

If the units produce multiple outputs using various input factors, the efficiency of DMU_j is defined as the ratio between a weighted sum of the outputs and a weighted sum of the inputs. Denote by $H = \{1, 2, \dots, s\}$ the set of production, factors and by $K = \{1, 2, \dots, m\}$ the corresponding set of outputs. If x_{ij} , $i \in H$, denotes the quantity of input i used by DMU_j and y_{rj} , $r \in K$, the quantity of output obtained, the efficiency of DMU_j is defined as;

$$\theta_j = \frac{u_1 y_{1j} + u_2 y_{2j} + \dots + u_m y_{mj}}{v_1 x_{1j} + v_2 x_{2j} + \dots + v_s x_{sj}} = \frac{\sum_{r \in K} u_r y_{rj}}{\sum_{i \in H} v_i x_{ij}}$$

for weights u_1, u_2, \dots, u_m associated with the outputs and v_1, v_2, \dots, v_s assigned to the inputs. (Vercellis, 2009)

III.1.1 CCR Model

The model developed in Charnes, Cooper and Rhodes (1978), known as the CCR model, imposes three restrictions on the frontier technology: Constant returns to scale, convexity of the set of feasible input-output combinations; and strong disposability of inputs and outputs (Zamorona, 2004). There is production frontier of CCR model at Figure II.3.

Source: (Cooper, 1999)

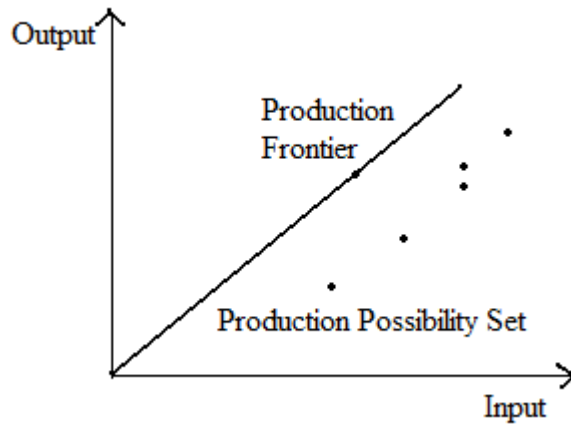


Figure II.3: Production Frontier of CCR Model

III.1.2 BCC Model

BCC model is introduced by Banker-Charnes-Cooper in 1984 (Banker et al, 2003). The BCC model's production frontiers spanned by the convex of the existing DMUs. (Cooper, 1999). According to another statement BCC model's sum of λ equals 1. (Kecek, 2010). There is production frontier of BCC model at Figure II.4.

Source: (Cooper, 1999)

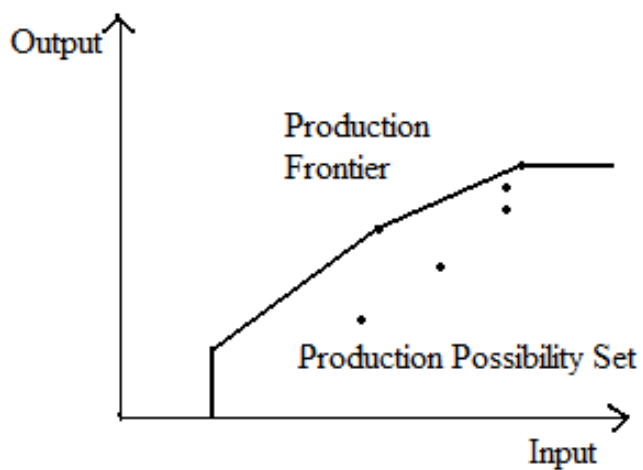


Figure II.4: Production Frontier of BCC Model

III.1.3 Returns to Scale Region

Returns to scale called as “elasticity” in economics and measures the relative change in output compared to the relative change in input (Cooper, 1999).

RTS classifications will be assigned in six regions. Region I refers IRS, region II refers CRS, region III refers DRS, region IV refers IRS at input-oriented model and CRS at output-oriented model, region V refers CRS at input-oriented model and DRS at output-oriented model, region VI refers IRS at input-oriented model and DRS at output-oriented model (Zhu, 2009).

Source: (Zhu, 2009).

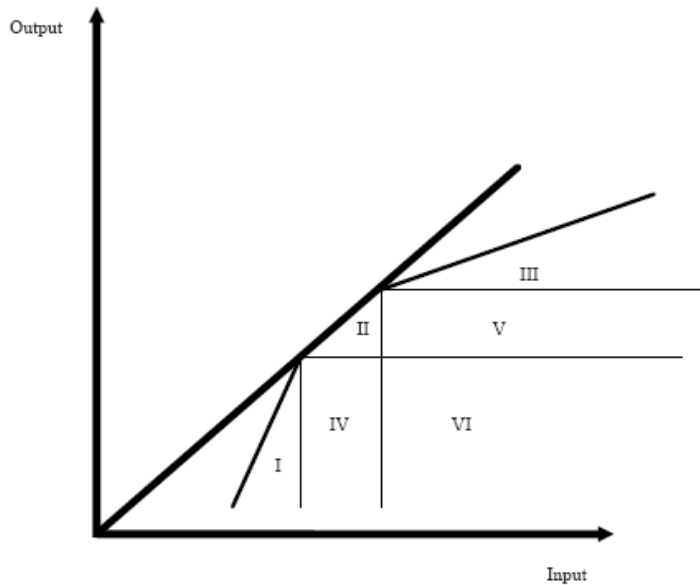


Figure II.5: RTS Region

CHAPTER III

LITERATURE

III.1 STUDIES ABOUT HOSPITALS' EFFICIENCY

Data envelopment analysis technique is very useful to evaluate firms' efficiency and very common to evaluate hospitals' efficiency. There are various studies about Hospital efficiency used by DEA.

Linna (1998) used DEA to calculate efficiency scores of Finnish Hospitals in his paper. Economic recession and the Government's budget caused pressure on hospitals in Finland to contain costs. He used DEA because productive efficiency needed to enhance. In conclusion, 3–5% annual average increase in productivity, half of which was due to improvement in cost efficiency and half due to technological change.

Al-Shammari (1999) attempted to apply Data Envelopment Analysis (DEA) to the measurement of productive efficiency of hospitals in the context of a developing country. He illustrated to assess the productive efficiency of the Ministry of Health's hospitals in Jordan. As a result DEA provided the first efficiency and productivity database of public hospitals in Jordan. He emphasis that, based upon DEA results, senior MOH's officials and policy-makers may need to mobilize some of the resources from one hospital to another.

Staat et. al. (2000), used DEA to evaluate German Health Sector efficiency. To deliver benchmarking result, a method was chosen. They discussed in their paper that the deficiencies of the chosen method could be overcome by using DEA. In their study, they showed that significant productivity differences exist between very similar hospitals. And also, they pointed out most inefficient hospitals could half their cost by applying an efficient technology.

Güles et. al. (2007) analyzed 50 largest hospitals owned by the Social Security Organization in Turkey by DEA in their study. Only 14 of them were found efficient. The authors suggest administrative and organizational restructuring of the 36 inefficient hospitals which have an average efficiency rate of 74%.

Gonçalves et. al. (2007) used DEA to measure hospitals according to the performance of decision-making units in relation to the variables studied for each hospital, in the year 2000. Clinical medical admissions in hospitals within the public system in Brazilian state capitals and Federal District (mortality rate, mean length of stay, mean cost of stay and disease profile) were analyzed. As a result, among the 27 state capitals, four of them were found to be 100% efficient, seven of them were found to be between 85 and 100%, ten of them were found to be between 70 and 85% and ten of them were found to be efficient less than 70%.

Zweifel et. al. (2009) introduce health efficiency by showing economic aspect in their book. They mention about data envelopment techniques to measure hospital efficiency. They pointed out to measure hospitals' efficient qualitative data is also important besides quantitative data. They use alternative techniques to understand the health economics.

Jandaghi et. al. (2010), evaluate and compare efficiency of Qom/Iran private and public hospitals in their study. They used Data Envelopment Analysis (DEA) in which rate of output is evaluated by input and effective and non-effective units are determined. The number of physicians, the number of nurses, the number of medical staff, the number of official staff and the amount of annual cost are their application's inputs. Clinical visits, emergency visits, and occupied cot/beds are their application's outputs. They analyzed 8 hospitals, using two methods: CRS & VRS (Constant Return to Scale & Variable Return to Scale). In conclusion, 3 hospitals among them were found to be non-effective.

Najadat et. al. (2011) used different algorithms and methods related to DEA to evaluate 28 public hospitals in Jordan. They consider the number of physicians, number of pharmacists, number of nurses, other hospital employees, number of beds, labs as inputs and number of inpatients, number of patients treated or outpatients, outpatients' visits, number of surgical operations, emergency room visits and length of stay for inpatients as outputs. As a result 8 of them were found to be efficient using all different methods or algorithms

Karahan et. al. (2011) used DEA techniques to evaluate performance of hospitals in Turkey. They mention the management of Turkish hospitals by showing hospitals' organizational structure and problems in their book. They conclude that, hospitals are organizations quality of which must be improved day by day. Hospitals' performances are needed to be measured by numeric techniques to improve their quality. Authors pointed out those DEA techniques are very useful for evaluating hospital's performance.

Hollingsworth (2008), review 317 published paper about frontier efficiency measurement and dwell upon conceptualizations of efficiency at his paper. According to his paper, %50 of the paper was applied on hospitals and DEA techniques were used %47 of the papers. In conclusion, he point out some criteria for assessing the use and usefulness of efficiency studies. He suggest that, sample sizes increase, and statistical techniques evolve can help in well-conducted studies in this

area. And he pointed out check list which could use for efficiency measurement studies;

1. Is the question well defined, and answerable?
2. Is a comprehensive description of the sample given?
3. Are the quality and quantity output data clear and comprehensive?
4. Are all the relevant inputs and outputs included?
5. Are inputs and outputs measured accurately in appropriate units?
6. Were inputs and outputs (or objectives) valued (or weighted) correctly?
7. Were analyses over time undertaken?
8. Do techniques add incremental value?
9. Was allowance made for uncertainty?
10. Did the presentation and discussion of study results include all issues of concern to users?

O'Neill et. al. (2007), review 79 studies published from 1984–2004 that represent 12 countries at their paper. They evaluate the papers in 4 categories. 37 studies which used standard DEA and DEA with congestion, multifactor efficiency, multi-objective optimization, scale efficiency, and translog cost functions model defined as group 1. 23 studies used DEA to measure changes in technical efficiency over time. 7 of them used DEA in combination with the Malmquist index. They pointed out that DEA in combination with the Malmquist index is advantageous to measure technological change over time as well as changes in the efficiency of individual facilities, e.g., hospitals. 12 studies located in group 3. These studies used allocate DEA, stochastic DEA, DEA in combination with SFA. They pointed out stochastic DEA offered the advantage of separating statistical noise from inefficiency. 7 studies located in group 4. 5 of them used DEA with another technique such as SFA. They pointed out these studies required a more complex design. They classified the inputs as beds, clinical staff, and non-clinical staff, working hours, services offered, costs, typical and specific input categories. In conclusion, they found significant differences between Europe and the US about study characteristic;

1. Fifty-two percent of European studies incorporated allocate efficiency (12% of US studies did). Sixty percent of European studies used panel data (25%

of the US studies did). 53% of the European studies used panel data and the Malmquist index approach (7% US studies did).

2. European studies were significantly more likely to use panel data than were US studies. Panel data offer several advantages over cross-sectional data, especially for measuring the impact of changes in hospital reimbursement.
3. Due to a larger American population, US studies had significantly more hospitals and hospitals-per-category than did the European studies.

CHAPTER IV

APPLICATION

IV.1. DEFINITIONS

Hospital: Institutions, which provide in-patient or out-patient medical care, in compliance with the medical and sanitary conditions required.

SII (Social Insurance Institution) Hospitals: The SII hospitals were devolved to the Ministry of Health in 2005. There were 120 SII hospitals with 28 979 beds in 2002. Total 43 561 287 visits were made to these hospitals and 1 363 191 patients were hospitalized. 553 839 surgical operations were performed; 265 252 of them were minor surgeries while 168 604 were intermediate and 119 983 were major surgeries. The number of days stayed in hospital was 7 736 937 and 19 360 patients died. In 2005, 146 hospitals with 35 059 hospital beds were devolved to the MoH.

Bed Capacity: Shows number of beds, in which a patient lies down for more than 24 hours for the purpose of care and treatment, and which is located in a patient room or patient wards/units, where patients are provided with continuous medical care services

General Practitioners: The person who has completed 6 years of higher education in medicine after graduating from high school.

Specialists: The person who have had a further period of residency training in a special field/branch of medicine, are called specialists

Health Personnel: Health Personnel include technicians, who hold high school degree and associate degree in the following branches: Emergency care, health, anesthesia,

environmental health, dental prosthesis, laboratory, orthopedics, x-ray, dental care, physical therapy, heart-lung-pump, pathological anatomy, audiometry, prosthesis and population health.

Midwife, nurse: Health personnel with a 4-year bachelor degree after graduation from high school. Those, who graduate from midwifery departments in vocational health high schools, are called midwives while others, who graduated from nursing departments in vocational health high schools, are called nurses. (TUIK, 2010).

Surgeries Type I: Cardiac transplantation, craniectomy –pneumonectomy to receiver with heart -lung transplantation, kidney transplantation, small intestine transplantation, free flap containing three different tissues, hematopoietic cell transfer, allogeneic, aorta replacement with aortic root expansion, mitral valve reconstruction, hypoplastic left heart syndrome repair, hepatectomy total, Pharyngolaryngectomy, mediasten cyst/tumor excision, by -pass graft composite (graft + vein) etc.

Surgeries Type II: Excision of malign skin tumors, open rhynoplasty with total septal reconstruction, laryngectomy total, mandibular or maxillar reconstruction, bone graft with cranial encephalocel surgeries, other tumor excision, intratorasic, extrapulmonary etc.

Surgeries Type III: Muscular flap, cleft palate repair -incomplete, lapa temporomandibular joint endoscopy, surgical rostomy, Caldwell -Luc operation, (bilateral), rhynoplasty, uncomplicated, non -graft endoscopic concha reduction, larynx papilloma etc.

Surgeries Type IV: Foreign body extraction from nose – surgery, only pacemaker or AICD installation/placement, open biopsy for soft tissue tumor inside pelvis, external rhino -surgery, internal rhino -conca electrocoterization, rhinophima excision and forehead flap secondary séance etc.

Surgeries Type V: Long leg plaster (above knee), cervical polyp excision, gastroscopic polypectomy, conjonctiva cover, bumm abortion, cervical biopsy, unilateral testicular venography, dialysis fistulograph, circumcision, colposcopy, pericariodsynthesis, parafimozis reduction etc. (The Ministry of Health, 2008)

IV.2. DATA AND ANALYSIS RESULT

In this study, 444 public hospitals located in Turkey have been analyzed. New generation DEA software, Max DEA 5.2 is used. Inputs and outputs are showed on Table X and Table Y.

Table IV.1: Inputs of the thesis study and number distribution according to bed capacity

Bed Capacity	Number of Hospitals	Specialists	General Practitioners	Midwife/ Nurse	Health Personnel	Other Personnel
0-50	187	7	7	49	49	6
51-100	92	17	9	83	83	16
101-200	66	36	13	139	139	22
201-350	59	65	18	249	249	37
351+	40	110	28	475	475	67

Source: Prepared by author

Table IV.2: Output of the thesis study and number distribution according to bed capacity

Bed Capacity	Outpatients	Surgeries Type I	Surgeries Type II	Surgeries Type III	Surgeries Type IV	Surgeries Type V
0-50	105424	19	64	149	122	54
51-100	243612	27	309	729	580	562
101-200	401024	147	857	1666	1440	1384
201-350	516459	263	1543	2480	2451	3348
351+	693134	411	2277	3725	4341	9877

Source: Prepared by author

Envelopment model is used to analyze the data. We characterized DMUs' RTS classifications and we found DMUs' located region (see Table IV.3). The analysis result shows that only 9% of hospitals (42 hospitals) are efficient and located in region II. 46% of hospitals (203 hospitals) are located in Region I. These are inefficient and their input and output RTS classifications are "increasing returns to scale". 15% of hospitals (64 hospitals) are located in Region III. These are inefficient and their input and output RTS classifications are "decreasing returns to scale". 1 hospital's input-oriented RTS classification is "increasing returns to scale" and output-oriented RTS classification is "constant returns to scale". It is inefficient and located in Region IV.

Table IV.3: Number of DMU and average bed capacity according to region

Region	Number of DMU	Average bed capacity
Region I (IRS)	203	91
Region II (CRS)	42	174
Region III (DRS)	65	285
Region IV	1	-
Region V	-	-
Region VI	133	106

Source: Prepared by author

There is no hospital located in Region V. 30% of hospitals are located in Region VI and their input-oriented RTS classification is "increasing returns to scale" and output-oriented RTS classification is "decreasing returns to scale" (see at Table IV.3 and figure IV.1).

Source: Prepared by author

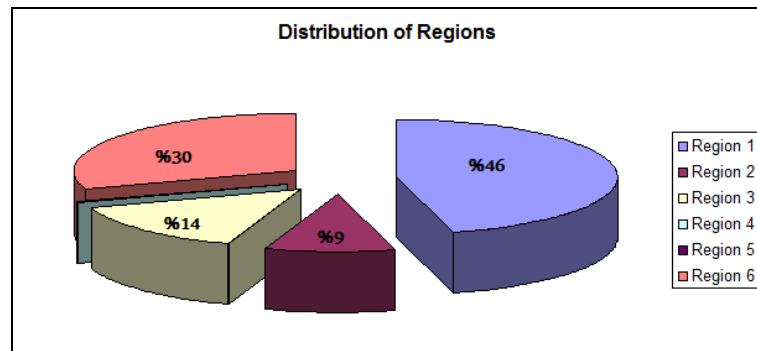


Figure IV.1: Distribution of Regions

When papers were analyzed it seems that especially, USA located hospitals performance measured by using input oriented DEA model. In literature it is expressed that hospital managers and policy-makers generally have more control over their inputs than their outputs, hence input-oriented DEA model is more suitable for our study. (O'Neill et. al., 2008). However, we consider input and output oriented analysis results and we show RTS regions of DMUs (see Table IV.4). According to OECD 2008 report Turkey has low bed ratio, low bed occupancy and short average length of stay in hospital when considered OECD's average value (OECD, 2008). Papers which study on Turkey hospital efficient find "input waste" on hospitals (Bilsel, 2010). In light of the foregoing, to improve Turkey hospital efficient we should increase the hospitals output size (Davutyan, 2011).

Table IV.4: Population Trend According to Region

Region	Number of DMU	Localities with Increasing Population			Localities with Decreasing Population		
		Number of Hospitals	% of Hospitals	Average Population Gain	Number of Hospitals	% of Hospitals	Average Population Lost
Region I (IRS)	203	119	59%	92%	84	41%	-21%
Region II (CRS)	42	33	79%	187%	9	21%	-31%
Region III (DRS)	65	53	82%	160%	12	18%	-22%
Region IV	1	0	-	-	1	100%	-36%
Region V	-	0	-	-	0	-	-
Region VI	133	72	54%	203%	61	46%	-20%

Source: Prepared by author

Table IV.5 shows us population trend's characters according to output-oriented RTS classification. Output oriented analysis results show us 41% of hospitals are IRS and these hospitals located cities have lost population average 21%. On the other hand, 63% of DRS hospitals located in cities which have had rapidly increase population, average 187% increases for 10 years.

Table IV.5: Population Trend According to Output-Oriented RTS Classification

Output-oriented							
	Sum	Localities with Increasing Population			Localities with Decreasing Population		
		Number of Hospitals	% of Hospitals	Average Population Gain	Number of Hospitals	% of Hospitals	Average Population Lost
Increasing (IRS)	203	119	59%	92%	84	41%	-21%
Decreasing (DRS)	198	125	63%	187%	73	37%	-21%
Constant (CRS)	43	33	77%	138%	10	23%	-31%

Source: Prepared by author

According to output-oriented analysis result, 50% of hospitals located in cities with decreasing population classified as IRS.(see Table IV.6) Ratio of hospitals according to population is 6%. These hospitals efficient could be improved by associated. Thus their outputs will increase.

Other result of the output-oriented analysis, 45% of hospitals located in cities with increasing population classified as DRS (see Table IV.6). Ratio of hospitals according to population is 45%. These hospitals efficient could be improved by diminished. Thus their outputs will decrease.

Table IV.6: Output-Oriented RTS Classification according to Population Trend

Output-oriented							
	Sum	Increasing (IRS)		Decreasing (DRS)		Constant (CRS)	
Localities with Increasing Population	277	119	43%	125	45%	33	12%
Localities with Decreasing Population	167	84	50%	73	44%	10	6%

Source: Prepared by author

When surgery types are analyzed, it seems that there is positive relation between surgery units and percentage region II. This means, more surgeries cause more efficient hospitals (see Table IV.7).

Table IV.7: Surgery Types' Region According to Surgery Units

Surgery Type I	Bed Capacity	Bed Capacity Utilization Rate	Sum of Surgery Units	Sum of Population	% of Surgeries/ Population
Region I (IRS)	18.560	79%	14.713	15.141.267	0,10%
Region II (CRS)	7.301	81%	5.917	9.335.560	0,06%
Region III (DRS)	18.238	75%	13.745	15.243.732	0,09%
Region IV	25	0%	0	21.054	0,00%
Region V	0	0%	0	0	0,00%
Region VI	14.074	95%	13.416	11.903.852	0,11%

Surgery Type II	Bed Capacity	Bed Capacity Utilization Rate	Sum of Surgery Units	Sum of Population	% of Surgeries/ Population
Region I (IRS)	18.560	22%	85.685	15.141.267	0,57%
Region II (CRS)	7.301	18%	40.202	9.335.560	0,43%
Region III (DRS)	18.238	22%	84.596	15.243.732	0,55%
Region IV	25	0%	0	21.054	0,00%
Region V	0	0%	0	0	0,00%
Region VI	14.074	20%	68.699	11.903.852	0,58%
Surgery Type III	Bed Capacity	Bed Capacity Utilization Rate	Sum of Surgery Units	Sum of Population	% of Surgeries/ Population
Region I (IRS)	18.560	12%	158.109	15.141.267	1,04%
Region II (CRS)	7.301	9%	77.016	9.335.560	0,82%
Region III (DRS)	18.238	14%	134.613	15.243.732	0,88%
Region IV	25	0%	0	21.054	0,00%
Region V	0	0%	0	0	0,00%
Region VI	14.074	11%	130.414	11.903.852	1,10%
Surgery Type IV	Bed Capacity	Bed Capacity Utilization Rate	Sum of Surgery Units	Sum of Population	% of Surgeries/ Population
Region I (IRS)	18.560	13%	141.466	15.141.267	0,93%
Region II (CRS)	7.301	9%	79.269	9.335.560	0,85%
Region III (DRS)	18.238	13%	140.652	15.243.732	0,92%
Region IV	25	0%	0	21.054	0,00%
Region V	0	0%	0	0	0,00%
Region VI	14.074	11%	128.034	11.903.852	1,08%

Surgery Type V	Bed Capacity	Bed Capacity Utilization Rate	Sum of Surgery Units	Sum of Population	% of Surgeries/ Population
Region I (IRS)	18.560	11%	168.264	15.141.267	1,11%
Region II (CRS)	7.301	7%	110.166	9.335.560	1,18%
Region III (DRS)	18.238	6%	313.848	15.243.732	2,06%
Region IV	25	0%	0	21.054	0,00%
Region V	0	0%	0	0	0,00%
Region VI	14.074	9%	153.516	11.903.852	1,29%

Source: Prepared by author

CHAPTER V

CONCLUSION

The average productivity was found to be %9 for 444 public hospitals. This means 42 public hospitals are efficient. The findings of the analyses should be considered as relative effectiveness value as the efficiency analysis shows the relativity between units in terms of the group handled (Temur, 2008).

Data set draw meaningful conclusions according to the “Golden Rule of DEA” is that number of units should be at least three times the number of outputs and inputs. (Bilsel, 2010)

Hospitals’ classified in Region II and named as CRS, average value of outputs per outpatient take place between hospitals’ average values of outputs per outpatient classified as Region I and Region III. Another finding that Region I hospitals’ inputs per surgery and outpatient take lower value. On the other hand Region III hospitals’ inputs per surgery and outpatient take higher value according to average (see Table V.1 and Table V.2).

Table V.1: Inputs rate per outpatients

	General Practitioners per outpatient	Midwife/ Nurse per outpatient	Specialists per outpatient	Bed Capacity per outpatient	Health personnel per outpatient	Other Personnel per outpatient
Region 1	0,004%	0,040%	0,009%	0,040%	0,040%	0,007%
Region 2	0,003%	0,046%	0,011%	0,044%	0,046%	0,005%
Region 3	0,005%	0,066%	0,015%	0,063%	0,066%	0,009%
Region 4	0,016%	0,103%	0,000%	0,078%	0,103%	0,012%
Region 6	0,004%	0,041%	0,009%	0,041%	0,041%	0,006%

Source: Prepared by author

Table V.2: Output rate per surgeries

	General Practitioners per surgery	Midwife/Nurse per Surgery	Specialists per Surgery	Bed Capacity per Surgery	Health personnel per Surgery	Other Personnel per Surgery
Region 1	0,001%	0,016%	0,004%	0,016%	0,016%	0,003%
Region 2	0,004%	0,059%	0,015%	0,056%	0,059%	0,007%
Region 3	0,003%	0,043%	0,010%	0,041%	0,043%	0,006%
Region 4	0,000%	0,000%	0,000%	0,000%	0,000%	0,000%
Region 6	0,002%	0,021%	0,004%	0,022%	0,021%	0,003%

Source: Prepared by author

Efficient 42 hospitals taking under examination show us, 42% of them located in Centreal Anatolia and Southeast Anatolia. However, Marmara Region, know as most development region of Turkey, participate with only 7%. When most inefficient 50 hospitals analyzed, seems that 22% of them located in Aegean Region. Moreover, when these hospitals RTS classification under examined, their classification appear as 44% of them IRS, 36% of them DRS.

According to the result, 84 public hospitals were found IRS and they are located in decreasing population locations. These 84 hospitals will be efficient when combined under the center hospital. In this way, their output size will be larger and this will push them to the efficient frontier.

125 public hospitals were found DRS and they are located in increasing population locations. These hospitals will be efficient by diminishing to more hospitals. Hence, their output size is too large and also getting larger by day by.

Hospital management is a politic issue. However, combining or diminishing the hospitals will bring about a rise in the hospital efficiency to 47% from 9%.

Combining the hospitals will cause public dissatisfaction. Hence, option demand is satisfied publicly by hospital beds held on reserve, along with the necessary staff and equipment (Zweifel et al., 2009). Our suggestion is given regardless of public satisfaction. There isn't any data about public satisfaction. If a survey could be done about public satisfaction, the survey's results will be used as an output at hospital efficient factors.

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APPENDIX

APPENDIX I: Hospitals Inputs

	Bed Capacity	Specialists	General Practitioners	Midwife/ Nurse	Health Personnel	Other Personnel
Adana Devlet Hastanesi	10	98	35	312	312	78
Afyonkarahisar Başmakçı İlçe Hastanesi	19	1	5	24	24	2
Bingöl Genç Devlet Hastanesi	19	6	7	48	48	6
Bingöl Solhan Devlet Hastanesi	20	6	6	63	63	6
Afyonkarahisar Sinanpaşa İlçe Hastanesi	20	2	6	13	13	2
Afyonkarahisar İscehisar İlçe Hastanesi	20	1	6	30	30	2
Bartın Ulus İlçe Hastanesi	25	1	5	21	21	1
Adana Karaisalı Devlet Hastanesi	25	11	5	45	45	1
Adana Tufanbeyli Devlet Hastanesi	25	7	5	39	39	1
Afyonkarahisar Sultandağı Devlet Hastanesi	25	1	4	23	23	1
Ağrı Diyadin Devlet Hastanesi	25	5	9	50	50	6
Ağrı Taşlıçay Devlet Hastanesi	25	2	5	45	45	9
Ağrı Tutak Devlet Hastanesi	25	4	5	29	29	5
Ankara Kalecik Devlet Hastanesi	25	3	6	36	36	4
Antalya Akseki Devlet Hastanesi	25	4	6	22	22	1
Antalya Kaş Devlet Hastanesi	25	5	2	53	53	2

Antalya Kemer Devlet Hastanesi	25	11	5	53	53	16
Aydın Germencik Devlet Hastanesi	25	8	7	34	34	15
Balıkesir Erdek Neyyire Sıtkı Devlet Hastanesi	25	3	9	49	49	8
Bilecik Söğüt Devlet Hastanesi	25	7	5	39	39	2
Burdur Yeşilova Devlet Hastanesi	25	3	4	32	32	1
Çanakkale Ayvacık Devlet Hastanesi	25	4	5	32	32	1
Çanakkale Bayramiç Devlet Hastanesi	25	4	8	45	45	4
Çanakkale Lapseki Devlet Hastanesi	25	2	6	45	45	3
Çankırı Ilgaz Devlet Hastanesi	25	6	4	35	35	5
Çankırı Çerkeş Devlet Hastanesi	25	3	5	42	42	4
Çorum Kargı Devlet Hastanesi	25	1	6	36	36	3
Denizli Çardak Devlet Hastanesi	25	3	4	24	24	1
Denizli Serinhisar Devlet Hastanesi	25	0	5	25	25	1
Elazığ Maden Devlet Hastanesi	25	1	5	30	30	4
Elazığ Palu Devlet Hastanesi	25	4	7	41	41	3
Erzincan Tercan Devlet Hastanesi	25	3	4	35	35	8
Erzincan Üzümlü Devlet Hastanesi	25	1	7	26	26	6
Gümüşhane Şiran Devlet Hastanesi	25	3	3	34	34	5
Isparta Keçiborlu Devlet Hastanesi	25	3	7	45	45	2
Isparta Senirkent Devlet Hastanesi	25	3	5	23	23	7
Isparta Uluborlu Devlet Hastanesi	25	1	5	28	28	4
İstanbul Şile Devlet Hastanesi	25	14	7	30	30	2

Kastamonu Araç Devlet Hastanesi	25	0	5	33	33	4
Kastamonu Bozkurt Devlet Hastanesi	25	1	4	37	37	1
Kastamonu Daday Devlet Hastanesi	25	1	5	27	27	5
Kayseri Tomarza Devlet Hastanesi	25	4	8	37	37	6
Kayseri Yeşilhisar Devlet Hastanesi	25	0	5	32	32	1
Kırklareli Pınarhisar Devlet Hastanesi	25	3	4	30	30	2
Konya Bozkır Devlet Hastanesi	25	5	8	56	56	9
Konya Hüyük Devlet Hastanesi	25	5	7	50	50	6
Konya Yunak Hacı İzzet Baysal Devlet Hastanesi	25	1	8	35	35	3
Malatya Doğanşehir Devlet Hastanesi	25	10	11	62	62	6
Malatya Hekimhan Devlet Hastanesi	25	4	8	53	53	5
Malatya Pötürge Devlet Hastanesi	25	1	5	37	37	6
Manisa Kırkağaç Devlet Hastanesi	25	5	5	42	42	3
Manisa Selendi Devlet Hastanesi	25	2	5	29	29	1
Kahramanmaraş Andırın Devlet Hastanesi	25	8	8	68	68	7
Ordu Gürgentepe Devlet Hastanesi	25	2	4	18	18	0
Samsun Ladik Devlet Hastanesi	25	3	6	32	32	2
Sivas Gemerek Devlet Hastanesi	25	5	7	42	42	2
Tokat Almus Devlet Hastanesi	25	1	5	33	33	3
Trabzon Maçka Mehmet Aktürk Devlet Hastanesi	25	1	5	53	53	2
Şanlıurfa Akçakale Devlet Hastanesi	25	16	7	58	58	12
Şanlıurfa Hilvan Devlet Hastanesi	25	6	5	60	60	5

Van Özalp Devlet Hastanesi	25	6	6	93	93	19
Yozgat Sarıkaya Devlet Hastanesi	25	5	7	48	48	5
Şırnak Beytüşşebap Devlet Hastanesi	25	5	4	44	44	0
Ardahan Göle Devlet Hastanesi	25	7	4	50	50	3
Ardahan Posof Devlet Hastanesi	25	2	5	29	29	3
İğdır Tuzluca Devlet Hastanesi	25	3	6	29	29	2
Karabük Yenice Devlet Hastanesi	25	5	5	34	34	3
Osmaniye Bahçe Devlet Hastanesi	26	4	5	41	41	13
Muğla Datça Devlet Hastanesi	26	4	6	45	45	2
Trabzon Tonya Devlet Hastanesi	27	0	5	34	34	3
Kastamonu Devrekani Devlet Hastanesi	28	0	4	21	21	1
Balıkesir Havran Devlet Hastanesi	29	5	5	27	27	2
Konya Cihanbeyli Devlet Hastanesi	30	9	11	60	60	6
Adana İmamoğlu Devlet Hastanesi	30	7	7	59	59	11
Adıyaman Çelikhan Devlet Hastanesi	30	1	7	39	39	6
Ağrı Eleşkirt Devlet Hastanesi	30	3	6	65	65	1
Ankara Kazan Hamdi Eriş Devlet Hastanesi	30	22	7	64	64	16
Denizli Honaz Devlet Hastanesi	30	5	7	41	41	3
Mersin Aydıncık Devlet Hastanesi	30	3	7	31	31	1
Mersin Bozyazı Devlet Hastanesi	30	4	5	46	46	2
İzmir Çiğli Devlet Hastanesi	30	24	10	52	52	7
İzmir Foça Devlet Hastanesi	30	14	6	50	50	4

İzmir Kiraz Devlet Hastanesi	30	6	6	34	34	2
Kayseri Bünyan Devlet Hastanesi	30	6	6	73	73	9
Kırklareli Vize Devlet Hastanesi	30	5	6	32	32	3
Konya Doğanhisar Devlet Hastanesi	30	3	6	35	35	4
Muğla Dalaman Devlet Hastanesi	30	5	5	75	75	3
Muş Hasköy Devlet Hastanesi	30	4	7	28	28	1
Samsun Ayvacık Devlet Hastanesi	30	2	5	25	25	5
Samsun Kavak Devlet Hastanesi	30	4	6	47	47	7
Samsun Alaçam Devlet Hastanesi	30	2	7	39	39	3
Şanlıurfa Harran Devlet Hastanesi	30	8	6	56	56	3
Yozgat Boğazlıyan Devlet Hastanesi	30	9	11	49	49	13
Yozgat Çekerek Devlet Hastanesi	30	9	8	47	47	3
Yozgat Şefaati Devlet Hastanesi	30	4	7	41	41	2
Aksaray Eski Devlet Hastanesi	30	6	9	34	34	4
Batman Sason Devlet Hastanesi	30	5	5	60	60	3
Batman Gercüş Devlet Hastanesi	30	6	5	60	60	4
Şırnak İdil Devlet Hastanesi	31	9	7	67	67	11
Edirne İpsala Devlet Hastanesi	32	4	4	22	22	3
Mardin Derik Devlet Hastanesi	33	10	7	53	53	4
Çorum Mecitözü Devlet Hastanesi	33	3	5	40	40	4
Denizli Çal Devlet Hastanesi	33	4	6	41	41	3
Manisa Gördes Devlet Hastanesi	34	4	5	44	44	5

Çorum Bayat Devlet Hastanesi	34	3	7	36	36	3
Konya Kadınhanı Refik-Saime Koyuncu Devlet Hastanesi	35	7	10	43	43	7
Balıkesir Savaştepe Devlet Hastanesi	35	2	7	30	30	2
Bursa Orhaneli Devlet Hastanesi	35	6	9	29	29	2
Denizli Sarayköy Devlet Hastanesi	35	9	9	67	67	5
Elazığ Karakoçan Devlet Hastanesi	35	5	7	55	55	10
Erzurum Hınıs Devlet Hastanesi	35	8	8	53	53	5
Giresun Fizik Tedavi Ve Rehabilitasyon Merkezi	35	3	2	38	38	5
Kayseri Yahyalı Devlet Hastanesi	36	5	6	61	61	9
Balıkesir İvrindi Devlet Hastanesi	37	5	7	37	37	3
Muş Bulanık Devlet Hastanesi	38	18	5	74	74	8
Konya Karapınar Devlet Hastanesi	39	6	12	44	44	7
Kırşehir Mucur Devlet Hastanesi	39	6	5	48	48	0
Siirt Kurtalan Devlet Hastanesi	40	9	5	47	47	4
Antalya Demre Devlet Hastanesi	40	4	6	53	53	16
Çanakkale Yenice Devlet Hastanesi	40	6	6	44	44	1
Elazığ Kovancılar Devlet Hastanesi	40	6	4	62	62	19
Hatay Altınözü Devlet Hastanesi	40	2	9	27	27	6
İstanbul Tuzla Devlet Hastanesi	40	31	9	92	92	12
Kastamonu Taşköprü Devlet Hastanesi	40	11	6	63	63	7
Manisa Saruhanlı Devlet Hastanesi	40	11	6	60	60	20
Tekirdağ Şarköy Devlet Hastanesi	42	9	12	60	60	18

Sakarya Geyve Devlet Hastanesi	43	10	8	63	63	6
Eskişehir Sivrihisar Devlet Hastanesi	43	6	5	46	46	3
Hakkari Şemdinli Devlet Hastanesi	43	7	5	56	56	4
Muş Varto Devlet Hastanesi	43	9	3	55	55	2
Şırnak Silopi Devlet Hastanesi	44	23	4	101	101	26
Balıkesir Bigadiç Devlet Hastanesi	44	8	9	57	57	12
Konya Kulu Devlet Hastanesi	44	13	10	49	49	8
Ordu Aybastı Devlet Hastanesi	45	4	7	39	39	4
Afyonkarahisar Çay Devlet Hastanesi	45	7	5	69	69	8
Amasya Taşova Devlet Hastanesi	45	5	5	69	69	19
Çanakkale Ezine Devlet Hastanesi	45	11	6	70	70	9
Çanakkale Gökçeada Devlet Hastanesi	45	7	5	32	32	2
Eskişehir Çifteler Devlet Hastanesi	45	6	6	45	45	2
Kastamonu Cide Devlet Hastanesi	46	3	6	33	33	3
Amasya Gümüşhacıköy Devlet Hastanesi	46	8	6	70	70	8
Denizli Kale Devlet Hastanesi	46	3	5	30	30	3
Sivas Yıldızeli Devlet Hastanesi	47	7	5	56	56	15
İstanbul Kağıthane Devlet Hastanesi	48	39	9	90	90	35
Hatay Samandağı Devlet Hastanesi	50	27	15	88	88	14
Adana Pozantı 80.Yıl Devlet Hastanesi	50	6	6	40	40	3
Ankara Şereflikoçhisar Devlet Hastanesi	50	15	6	77	77	4
Antalya Elmalı Devlet Hastanesi	50	13	6	55	55	16

Artvin Hopa Devlet Hastanesi	50	11	9	78	78	8
Artvin Şavşat Devlet Hastanesi	50	3	9	84	84	8
Artvin Yusufeli Devlet Hastanesi	50	13	5	66	66	10
Aydın Didim Devlet Hastanesi	50	11	9	66	66	23
Burdur Gölhisar Devlet Hastanesi	50	6	6	86	86	2
Çorum Alaca Devlet Hastanesi	50	6	9	39	39	8
Denizli Acıpayam Devlet Hastanesi	50	15	7	82	82	7
Diyarbakır Çermik Devlet Hastanesi	50	12	8	69	69	8
Erzurum İspir Devlet Hastanesi	50	4	6	57	57	15
Erzurum Pasinler İbrahim Hakkı Devlet Hastanesi	50	5	8	69	69	5
Erzurum Tekman Şehit Piyade Çavuş Muhammet Binici Devlet Hastanesi	50	4	4	27	27	0
Hatay Erzincan Devlet Hastanesi	50	1	9	24	24	3
Hatay Hassa Devlet Hastanesi	50	15	10	52	52	16
Isparta Şarkikaraağaç Devlet Hastanesi	50	6	5	68	68	11
Mersin Gülnar Devlet Hastanesi	50	5	7	51	51	3
Mersin Mut Devlet Hastanesi	50	10	14	72	72	21
İstanbul Büyükçekmece Devlet Hastanesi	50	32	9	90	90	6
İzmir Selçuk Devlet Hastanesi	50	23	8	72	72	20
Kırklareli Babaeski Devlet Hastanesi	50	11	6	56	56	4
Mardin Nusaybin Devlet Hastanesi	50	29	17	134	134	9
Nevşehir Ürgüp Devlet Hastanesi	50	13	11	72	72	24

Ordu Akkuş Devlet Hastanesi	50	2	5	44	44	1
Ordu Gököy Devlet Hastanesi	50	3	5	50	50	4
Ordu Kumru Devlet Hastanesi	50	4	6	42	42	5
Ordu Korgan Devlet Hastanesi	50	2	6	41	41	4
Ordu Ulubey Devlet Hastanesi	50	2	6	33	33	4
Sakarya Hendek Devlet Hastanesi	50	16	9	62	62	17
Sakarya Pamukova Devlet Hastanesi	50	6	5	38	38	3
Sinop Ayancık Devlet Hastanesi	50	3	5	61	61	6
Sinop Durağan Devlet Hastanesi	50	3	4	49	49	9
Sinop Gerze Devlet Hastanesi	50	3	5	37	37	4
Tekirdağ Hayrabolu Devlet Hastanesi	50	6	7	38	38	4
Tekirdağ Muratlı Devlet Hastanesi	50	5	7	44	44	2
Tokat Reşadiye Devlet Hastanesi	50	6	6	59	59	4
Uşak Sivahlı Devlet Hastanesi	50	3	5	50	50	1
Yozgat Akdağmadeni Devlet Hastanesi	50	10	16	59	59	5
Zonguldak Alaplı Devlet Hastanesi	50	6	5	58	58	7
Aksaray Ortaköy Devlet Hastanesi	50	11	8	44	44	6
Kırıkkale Keskin Devlet Hastanesi	50	5	6	45	45	4
Düzce Akçakoca Devlet Hastanesi	51	14	9	54	54	20
İstanbul Sarıyer İsmail Akgün Devlet Hastanesi	51	29	8	70	70	17
Muğla Yatağan Devlet Hastanesi	51	11	6	66	66	27
Zonguldak Devrek Devlet Hastanesi	52	9	5	66	66	16

Afyonkarahisar Şuhut Devlet Hastanesi	52	6	5	44	44	5
Ankara Nallıhan Devlet Hastanesi	52	12	5	75	75	3
Giresun Espiye Devlet Hastanesi	52	3	9	71	71	3
Kocaeli Kandıra Kazım Dinç Devlet Hastanesi	52	16	13	80	80	5
Muğla Ortaca Devlet Hastanesi	52	12	7	89	89	17
Karabük Safranbolu Devlet Hastanesi	53	15	7	70	70	18
Denizli Tavas Devlet Hastanesi	53	12	5	72	72	11
Muş Malazgirt Devlet Hastanesi	54	14	10	69	69	6
Ankara Haymana Devlet Hastanesi	54	15	6	38	38	6
Artvin Arhavi Devlet Hastanesi	54	4	7	59	59	6
Erzurum Horasan Devlet Hastanesi	54	10	10	76	76	17
Kocaeli Karamürsel Devlet Hastanesi	55	15	11	86	86	10
Ankara Kızılcahamam Devlet Hastanesi	55	16	10	75	75	22
Çanakkale Gelibolu Devlet Hastanesi	55	14	6	75	75	6
Konya Sarayönü Devlet Hastanesi	56	6	10	40	40	5
Balıkesir Manyas Devlet Hastanesi	56	5	7	41	41	215
Bitlis Ahlat Devlet Hastanesi	56	6	8	68	68	11
Konya Çumra Devlet Hastanesi	58	18	13	71	71	13
Rize Pazar Devlet Hastanesi	58	9	6	72	72	4
Sakarya Karasu Devlet Hastanesi	58	13	6	71	71	12
Van Başkale Devlet Hastanesi	59	8	11	67	67	1
Yozgat Yerköy Devlet Hastanesi	60	19	14	84	84	13

Ankara Gdl Devlet Hastanesi	60	4	7	39	39	14
Antalya Korkuteli Devlet Hastanesi	60	24	11	79	79	20
Denizli ivril Devlet Hastanesi	60	13	9	98	98	15
Ktahya Emet Devlet Hastanesi	60	6	8	51	51	2
Malatya Yeşilyurt Hasan alık Devlet Hastanesi	60	13	12	107	107	2
Manisa Demirci Devlet Hastanesi	60	14	5	76	76	5
Manisa Sarıgl Devlet Hastanesi	60	3	5	53	53	2
Uşak Banaz Devlet Hastanesi	61	5	7	74	74	4
Diyarbakır Bismil Devlet Hastanesi	61	26	17	127	127	20
İstanbul Şişli Devlet Hastanesi	61	24	4	36	36	4
İzmir Bayındır Devlet Hastanesi	61	21	7	50	50	4
Şanlıurfa Viranşehir Devlet Hastanesi	62	30	11	99	99	23
Balıkesir Dursunbey Devlet Hastanesi	62	11	6	59	59	6
Bursa Yenişehir Devlet Hastanesi	63	14	6	80	80	10
Adıyaman Besni Devlet Hastanesi	63	18	9	82	82	12
Ankara Beypazarı Devlet Hastanesi	63	23	9	129	129	19
Diyarbakır Ergani Devlet Hastanesi	64	41	13	133	133	23
Aydın ine Devlet Hastanesi	64	15	10	73	73	11
Bitlis Groymak Devlet Hastanesi	64	5	5	50	50	10
İzmir Bornova Trkan zilhan Devlet Hastanesi	65	60	16	131	131	18
Antalya Gazipaşa Devlet Hastanesi	65	18	8	86	86	17
Aydın Kuşadası Devlet Hastanesi	65	31	12	89	89	23

Kocaeli Körfez Devlet Hastanesi	65	18	5	95	95	18
Sivas Suşehri Devlet Hastanesi	65	9	6	60	60	20
Sivas Şarkışla Devlet Hastanesi	66	9	7	60	60	19
Balıkesir Susurluk Devlet Hastanesi	66	9	6	65	65	18
Gaziantep İslahiye Devlet Hastanesi	66	12	9	83	83	25
Van Muradiye Devlet Hastanesi	68	16	13	88	88	7
Manisa Kula Devlet Hastanesi	72	10	9	69	69	3
Kastamonu İnebolu Devlet Hastanesi	72	7	5	55	55	6
Sivas Zara Devlet Hastanesi	74	3	7	65	65	14
İzmir Aliğa Devlet Hastanesi	75	33	8	98	98	17
Ağrı Patnos Devlet Hastanesi	75	22	10	167	167	22
Ankara Gölbaşı Hasvak Devlet Hastanesi	75	42	13	81	81	19
Balıkesir Sındırgı Devlet Hastanesi	75	6	7	41	41	5
Kastamonu Tosya Devlet Hastanesi	75	15	9	94	94	12
Şanlıurfa Ceylanpınar Devlet Hastanesi	75	12	6	64	64	7
Osmaniye Düziçi Devlet Hastanesi	76	18	13	118	118	21
Adıyaman Kahta Devlet Hastanesi	77	29	11	117	117	34
Gümüşhane Kelkit Devlet Hastanesi	77	10	6	67	67	8
Muğla Bodrum Devlet Hastanesi	79	37	10	103	103	42
Giresun Bulancak Devlet Hastanesi	79	15	12	102	102	14
Trabzon Of Devlet Hastanesi	80	13	10	95	95	3
Adıyaman Gölbaşı Devlet Hastanesi	80	15	8	106	106	10

Bursa Orhangazi Devlet Hastanesi	80	16	9	100	100	10
Giresun Tirebolu Devlet Hastanesi	80	9	8	90	90	10
İstanbul Eyüp Devlet Hastanesi	80	73	12	121	121	23
Tekirdağ Malkara Devlet Hastanesi	90	15	6	78	78	6
Hatay Kırıkhan Devlet Hastanesi	92	26	16	120	120	37
Bursa İznik Devlet Hastanesi	92	14	9	60	60	5
Trabzon Akçaabat Devlet Hastanesi	95	24	12	143	143	20
Hatay Reyhanlı Devlet Hastanesi	95	19	15	81	81	25
Kayseri Develi Hatice-Muammer Kocatürk Devlet Hastanesi	96	23	8	85	85	26
Samsun Terme Devlet Hastanesi	97	17	12	103	103	18
Balıkesir Gönen Devlet Hastanesi	99	21	12	101	101	25
Osmaniye Kadirli Devlet Hastanesi	100	34	12	198	198	11
Adıyaman 82.Yıl Devlet Hastanesi	100	34	12	90	90	16
Afyonkarahisar Dinar Devlet Hastanesi	100	18	9	109	109	21
Antalya Kumluca Devlet Hastanesi	100	20	8	93	93	22
Antalya Serik Devlet Hastanesi	100	39	15	161	161	27
Bolu Gerede Devlet Hastanesi	100	11	8	64	64	10
Çorum İskilip Devlet Hastanesi	100	12	7	81	81	20
Erzurum Oltu Devlet Hastanesi	100	18	8	102	102	16
Kahramanmaraş Pazarcık Devlet Hastanesi	100	20	9	92	92	6
Sakarya Akyazı Devlet Hastanesi	100	17	10	74	74	11
Karaman Ermenek Devlet Hastanesi	100	5	7	56	56	4

Ardahan Devlet Hastanesi	101	48	13	97	97	3
Kahramanmaraş Afşin Devlet Hastanesi	101	30	10	112	112	14
Samsun Havza Devlet Hastanesi	102	11	8	62	62	8
Balıkesir Ayvalık Devlet Hastanesi	102	23	20	133	133	27
Bartın Kadın Doğum Ve Çocuk Hastalıkları Hastanesi	105	16	6	114	114	4
Antalya Finike Devlet Hastanesi	105	25	10	92	92	22
Isparta Yalvaç Devlet Hastanesi	110	14	6	107	107	3
Çorum Sungurlu Devlet Hastanesi	110	22	9	94	94	26
Kırşehir Kaman Devlet Hastanesi	110	13	6	87	87	19
Kütahya Gediz Devlet Hastanesi	112	18	12	88	88	4
Amasya Suluova Devlet Hastanesi	114	13	10	98	98	10
Tokat Erbaa Devlet Hastanesi	114	26	13	159	159	29
Şanlıurfa Birecik Devlet Hastanesi	115	29	13	111	111	25
Çanakkale Çan Devlet Hastanesi	115	16	7	96	96	25
Giresun Kadın Doğum Ve Çocuk Hastalıkları Hastanesi	118	18	9	160	160	2
İstanbul Pendik Devlet Hastanesi	120	91	19	209	209	34
Bilecik Bozüyük Devlet Hastanesi	120	35	15	141	141	23
Mersin Erdemli Devlet Hastanesi	122	37	18	180	180	30
Çorum Osmancık Devlet Hastanesi	122	9	8	74	74	5
İzmir Menemen Devlet Hastanesi	124	54	14	120	120	32
İzmir Urla Devlet Hastanesi	125	49	11	125	125	30
Sinop Boyabat 75.Yıl Devlet Hastanesi	126	20	5	107	107	21

Bitlis Devlet Hastanesi	127	52	16	149	149	32
Gaziantep Nizip Devlet Hastanesi	128	38	17	111	111	19
Bilecik Devlet Hastanesi	128	45	15	167	167	18
Bursa Gemlik Muammer Ağım Devlet Hastanesi	128	37	16	165	165	26
İstanbul Tacirler Eğitim Vakfı Sultanbeyli Devlet Hastanesi	130	68	13	107	107	37
Artvin Borçka Devlet Hastanesi	130	9	6	72	72	9
Yozgat Sorgun Devlet Hastanesi	131	35	13	159	159	33
Zonguldak Çaycuma Devlet Hastanesi	132	23	11	104	104	14
Çanakkale Biga Devlet Hastanesi	132	29	8	115	115	32
Hatay Dörtöyl Devlet Hastanesi	132	36	14	175	175	20
Konya Beyşehir Devlet Hastanesi	132	27	17	143	143	29
Van İpekyolu Devlet Hastanesi	132	46	16	120	120	9
Van Erciş Devlet Hastanesi	137	41	17	160	160	19
Konya Seydişehir Devlet Hastanesi	137	26	15	142	142	38
Tekirdağ Çerkezköy Devlet Hastanesi	140	42	11	153	153	18
Afyonkarahisar Sandıklı Devlet Hastanesi	143	23	12	112	112	23
Şırnak Devlet Hastanesi	145	60	11	146	146	22
Mersin Anamur Devlet Hastanesi	145	22	9	203	203	22
Manisa Alaşehir Devlet Hastanesi	147	29	9	127	127	28
Adana Kozan Devlet Hastanesi	148	35	8	171	171	27
Ordu Boztepe Devlet Hastanesi	150	30	11	126	126	16

Hakkari Yüksekova Devlet Hastanesi	150	41	17	169	169	14
İstanbul Bayrampaşa Devlet Hastanesi	150	52	14	123	123	29
Kahramanmaraş Yenişehir Devlet Hastanesi	150	43	16	153	153	24
Tokat Niksar Devlet Hastanesi	150	20	14	143	143	15
Tokat Zile Devlet Hastanesi	150	17	8	131	131	23
Tunceli Devlet Hastanesi	150	41	15	183	183	5
Bayburt Devlet Hastanesi	151	41	14	132	132	10
Bursa Karacabey Devlet Hastanesi	158	24	19	124	124	11
Balıkesir Burhaniye Devlet Hastanesi	160	21	14	119	119	19
Ankara Gazi Mustafa Kemal Devlet Hastanesi	160	75	8	138	138	58
Hakkari Devlet Hastanesi	160	54	11	187	187	4
Mersin Silifke Devlet Hastanesi	162	39	15	172	172	36
Samsun Çarşamba Devlet Hastanesi	162	45	11	166	166	23
Kilis Devlet Hastanesi	173	55	19	152	152	32
Muğla Milas 75.Yıl Devlet Hastanesi	175	39	14	162	162	16
Edirne Keşan Devlet Hastanesi	176	32	9	155	155	19
Adana Ceyhan Devlet Hastanesi	176	51	17	155	155	31
Ağrı Devlet Hastanesi	180	84	18	226	226	31
Konya Akşehir Devlet Hastanesi	184	39	21	178	178	35
Kocaeli Gebze Fatih Devlet Hastanesi	190	54	20	222	222	41
Samsun Vezirköprü Devlet Hastanesi	200	19	7	110	110	11
Edirne Uzunköprü Devlet Hastanesi	200	35	9	116	116	20

Kırşehir Devlet Hastanesi	200	68	15	263	263	45
Manisa Akhisar Devlet Hastanesi	202	57	14	305	305	34
Balıkesir Edremit Devlet Hastanesi	202	50	21	247	247	34
İzmir Alsancak Nevvar Salih İşgören Devlet Hastanesi	202	118	30	193	193	56
Siirt Devlet Hastanesi	204	63	14	162	162	24
Artvin Devlet Hastanesi	206	54	13	156	156	18
Yalova Devlet Hastanesi	208	79	21	240	240	47
Gümüşhane Devlet Hastanesi	208	44	10	165	165	33
Şanlıurfa Balıklıgöl Devlet Hastanesi	210	69	17	1184	1184	15
İstanbul Esenyurt Devlet Hastanesi	210	52	17	141	141	35
Kocaeli Gölcük Devlet Hastanesi	211	39	21	202	202	30
Kastamonu Dr.Münif İslamoğlu Devlet Hastanesi	215	66	14	248	248	53
Kırıkkale Devlet Hastanesi	220	32	12	170	170	55
Iğdır Devlet Hastanesi	223	64	28	212	212	28
Muğla Fethiye Devlet Hastanesi	225	70	22	285	285	55
Antalya Alanya Devlet Hastanesi	228	58	12	205	205	44
Manisa Turgutlu Devlet Hastanesi	234	61	19	239	239	30
Kahramanmaraş Elbistan Devlet Hastanesi	235	51	16	186	186	23
Burdur Bucak Devlet Hastanesi	243	27	19	170	170	32
Çankırı Devlet Hastanesi	245	70	13	227	227	41
Aydın Söke Fehime Faik Kocagöz Devlet Hastanesi	250	55	19	222	222	34

Manisa Soma Devlet Hastanesi	250	41	14	189	189	29
Sakarya Yenikent Devlet Hastanesi	250	68	21	252	252	29
Zonguldak Devlet Hastanesi	251	35	11	186	186	34
Konya Ereğli Devlet Hastanesi	252	41	21	196	196	26
Rize 82.Yıl Devlet Hastanesi	254	49	12	194	194	23
Manisa Salihli Devlet Hastanesi	265	60	15	253	253	47
İzmir Ödemiş Devlet Hastanesi	266	56	16	182	182	28
Kırklareli Lüleburgaz Devlet Hastanesi	267	58	22	247	247	25
İzmir Karşıyaka Devlet Hastanesi	270	116	31	296	296	65
Kütahya Devlet Hastanesi	274	66	20	246	246	33
Manisa Merkezefendi Devlet Hastanesi	275	55	22	166	166	48
Samsun Bafra Nafiz Kurt Devlet Hastanesi	276	48	13	240	240	37
Ankara Polatlı Duatepe Devlet Hastanesi	279	64	15	206	206	52
Bitlis Tatvan Devlet Hastanesi	279	41	17	208	208	26
Ordu Ünye Devlet Hastanesi	282	39	20	210	210	39
Adıyaman Devlet Hastanesi	289	82	18	314	314	34
Muş Devlet Hastanesi	290	73	20	265	265	20
Yozgat Devlet Hastanesi	295	68	17	247	247	21
Aydın Atatürk Devlet Hastanesi	300	76	21	318	318	52
Mardin Devlet Hastanesi	300	74	19	197	197	36
Sinop Atatürk Devlet Hastanesi	300	68	12	228	228	39
Bartın Devlet Hastanesi	301	54	17	210	210	30

Kırklareli Devlet Hastanesi	304	57	14	215	215	38
Denizli Servergazi Devlet Hastanesi	308	91	12	316	316	41
Bursa İnegöl Devlet Hastanesi	311	59	20	225	225	40
Sivas Devlet Hastanesi	313	68	28	306	306	43
Elazığ Harput Devlet Hastanesi	317	86	20	261	261	24
Ordu Fatsa Devlet Hastanesi	317	40	14	252	252	45
Kocaeli İzmit Seka Devlet Hastanesi	320	74	22	275	275	34
Konya Beyhekim Devlet Hastanesi	320	41	11	73	73	21
Bingöl Devlet Hastanesi	325	61	14	245	245	30
Manisa Devlet Hastanesi	325	94	23	259	259	48
Kocaeli Devlet Hastanesi	326	99	27	341	341	56
İstanbul Üsküdar Devlet Hastanesi	328	121	15	189	189	75
Niğde Devlet Hastanesi	330	73	20	292	292	57
Trabzon Fatih Devlet Hastanesi	337	76	21	321	321	24
Burdur Devlet Hastanesi	349	56	14	245	245	22
Gaziantep 25 Aralık Devlet Hastanesi	350	106	36	369	369	58
İstanbul Paşabahçe Devlet Hastanesi	350	122	19	307	307	59
Kars Devlet Hastanesi	369	85	24	310	310	27
Balıkesir Bandırma Devlet Hastanesi	374	69	19	261	261	47
Osmaniye Devlet Hastanesi	390	88	23	395	395	47
Hatay İskenderun Devlet Hastanesi	397	98	31	333	333	52
Afyonkarahisar Devlet Hastanesi	400	116	29	410	410	47

Erzincan Devlet Hastanesi	400	77	21	406	406	50
Mersin Toros Devlet Hastanesi	400	91	28	352	352	88
Kütahya Evliya Çelebi Devlet Hastanesi	400	66	16	236	236	41
Tekirdağ Devlet Hastanesi	400	105	24	375	375	66
Aksaray Devlet Hastanesi	400	81	23	251	251	36
Bolu İzzet Baysal Devlet Hastanesi	404	76	19	300	300	57
Zonguldak Karadeniz Ereğli Devlet Hastanesi	404	67	22	251	251	54
Aydın Nazilli Devlet Hastanesi	405	92	28	281	281	56
İzmir Buca Seyfi Demirsoy Devlet Hastanesi	406	141	27	357	357	62
Batman Bölge Devlet Hastanesi	407	80	21	262	262	16
Isparta Devlet Hastanesi	410	90	21	354	354	46
Karaman Devlet Hastanesi	411	80	22	2547	2547	54
Karabük Devlet Hastanesi	420	70	23	301	301	35
Edirne Devlet Hastanesi	422	117	25	343	343	35
Amasya Sabuncuoğlu Şerefeddin Devlet Hastanesi	426	69	27	401	401	41
Ordu Devlet Hastanesi	438	100	23	391	391	39
Samsun Gazi Devlet Hastanesi	492	107	19	421	421	44
Çanakkale Devlet Hastanesi	500	121	31	436	436	73
Muğla Devlet Hastanesi	501	85	23	479	479	34
Antalya Atatürk Devlet Hastanesi	502	157	37	429	429	140
Zonguldak Atatürk Devlet Hastanesi	503	107	33	442	442	81
Mersin Devlet Hastanesi	506	164	43	590	590	175

Balıkesir Devlet Hastanesi	510	93	25	445	445	63
Kahramanmaraş Devlet Hastanesi	515	113	32	496	496	21
Bursa Çekirge Devlet Hastanesi	525	163	37	532	532	202
Diyarbakır Devlet Hastanesi	540	201	41	493	493	72
Eskişehir Devlet Hastanesi	540	115	25	471	471	70
Adana Çukurova Devlet Hastanesi	600	129	28	483	483	107
Aydın Devlet Hastanesi	646	136	37	508	508	88
Mersin Tarsus Devlet Hastanesi	722	62	21	260	260	50
Denizli Devlet Hastanesi	735	190	32	664	664	76
Uşak Devlet Hastanesi	750	112	35	683	683	80
Bursa Devlet Hastanesi	808	183	56	643	643	86
Çorum Devlet Hastanesi	811	126	24	526	526	92
Malatya Devlet Hastanesi	978	190	55	895	895	125

APPENDIX II: Hospitals Outputs

	Outpatients	Surgeries Type I	Surgeries Type II	Surgeries Type III	Surgeries Type IV	Surgeries Type V
Adana Devlet Hastanesi	59457	0	0	0	0	0
Afyonkarahisar Başmakçı İlçe Hastanesi	60365	0	0	0	0	0
Bingöl Genç Devlet Hastanesi	47577	0	0	0	0	0
Bingöl Solhan Devlet Hastanesi	56009	0	0	0	0	0
Afyonkarahisar Sınanpaşa İlçe Hastanesi	57962	0	0	0	0	0
Afyonkarahisar İscehisar İlçe Hastanesi	90687	0	0	0	0	0
Bartın Ulus İlçe Hastanesi	61564	0	0	0	0	0
Adana Karaisalı Devlet Hastanesi	86995	0	0	0	0	0
Adana Tufanbeyli Devlet Hastanesi	34379	0	0	0	0	0
Afyonkarahisar Sultandağı Devlet Hastanesi	49501	0	0	0	0	0
Ağrı Diyadin Devlet Hastanesi	106356	0	0	0	0	0
Ağrı Taşlıçay Devlet Hastanesi	87589	0	0	0	0	0
Ağrı Tutak Devlet Hastanesi	70538	0	0	0	0	0
Ankara Kalecik Devlet Hastanesi	50740	0	0	0	0	0
Antalya Akseki Devlet Hastanesi	95137	0	0	0	0	0
Antalya Kaş Devlet Hastanesi	114999	0	0	0	0	0
Antalya Kemer Devlet Hastanesi	107630	0	0	0	0	0
Aydın Germencik Devlet Hastanesi	57869	0	0	0	0	0
Balıkesir Erdek Neyyire Sıtkı Devlet Hastanesi	41902	0	0	0	0	0

Bilecik Sögüt Devlet Hastanesi	78078	0	0	0	0	0
Burdur Yeşilova Devlet Hastanesi	63488	0	0	0	0	0
Çanakkale Ayvacık Devlet Hastanesi	43866	0	0	0	0	0
Çanakkale Bayramiç Devlet Hastanesi	25553	0	0	0	0	0
Çanakkale Lapseki Devlet Hastanesi	44648	0	0	0	0	0
Çankırı Ilgaz Devlet Hastanesi	39236	0	0	0	0	0
Çankırı Çerkeş Devlet Hastanesi	29580	0	0	0	0	0
Çorum Kargı Devlet Hastanesi	70295	0	0	0	0	0
Denizli Çardak Devlet Hastanesi	101675	0	0	0	0	0
Denizli Serinhisar Devlet Hastanesi	40393	0	0	0	0	0
Elazığ Maden Devlet Hastanesi	39052	0	0	0	0	0
Elazığ Palu Devlet Hastanesi	40269	0	0	0	0	0
Erzincan Tercan Devlet Hastanesi	57150	0	0	0	0	0
Erzincan Üzümlü Devlet Hastanesi	50407	0	0	0	0	0
Gümüşhane Şiran Devlet Hastanesi	52783	0	0	0	0	0
Isparta Keçiborlu Devlet Hastanesi	42224	0	0	0	0	0
Isparta Senirkent Devlet Hastanesi	28309	0	0	0	0	0
Isparta Uluborlu Devlet Hastanesi	106654	0	0	0	0	0
İstanbul Şile Devlet Hastanesi	66391	0	0	0	0	0
Kastamonu Araç Devlet Hastanesi	32097	0	0	0	0	0
Kastamonu Bozkurt Devlet Hastanesi	80805	0	0	0	0	0
Kastamonu Daday Devlet Hastanesi	43425	0	0	0	0	0

Kayseri Tomarza Devlet Hastanesi	44828	0	0	0	0	0
Kayseri Yeşilhisar Devlet Hastanesi	88283	0	0	0	0	0
Kırklareli Pınarhisar Devlet Hastanesi	51951	0	0	0	0	0
Konya Bozkır Devlet Hastanesi	68618	0	0	0	0	0
Konya Hüyük Devlet Hastanesi	105142	0	0	0	0	0
Konya Yunak Hacı İzzet Baysal Devlet Hastanesi	106696	0	0	0	0	0
Malatya Doğanşehir Devlet Hastanesi	48886	0	0	0	0	0
Malatya Hekimhan Devlet Hastanesi	62343	0	0	0	0	0
Malatya Pötürge Devlet Hastanesi	71109	0	0	0	0	0
Manisa Kırkağaç Devlet Hastanesi	65116	0	0	0	0	0
Manisa Selendi Devlet Hastanesi	79832	0	0	0	0	0
Kahramanmaraş Andırın Devlet Hastanesi	103223	0	0	0	0	0
Ordu Gürgentepe Devlet Hastanesi	61774	0	0	0	0	0
Samsun Ladik Devlet Hastanesi	104532	0	0	0	0	0
Sivas Gemerek Devlet Hastanesi	87549	0	0	0	0	0
Tokat Almus Devlet Hastanesi	199813	0	0	0	0	0
Trabzon Maçka Mehmet Aktürk Devlet Hastanesi	36450	0	0	0	0	0
Şanlıurfa Akçakale Devlet Hastanesi	43636	0	0	0	0	0
Şanlıurfa Hilvan Devlet Hastanesi	41327	0	0	0	0	0
Van Özalp Devlet Hastanesi	37776	0	0	0	0	0
Yozgat Sarıkaya Devlet Hastanesi	20708	0	0	0	0	0
Şırnak Beytüşşebap Devlet Hastanesi	78215	0	0	2	0	0

Ardahan Gle Devlet Hastanesi	72162	0	0	93	0	0
Ardahan Posof Devlet Hastanesi	94056	0	0	218	0	0
İğdır Tuzluca Devlet Hastanesi	480960	1693	267	330	0	0
Karabk Yenice Devlet Hastanesi	485727	196	1411	1029	0	0
Osmaniye Bahe Devlet Hastanesi	55137	0	0	0	1	0
Muğla Data Devlet Hastanesi	113864	0	0	11	1	0
Trabzon Tonya Devlet Hastanesi	46555	0	0	0	3	0
Kastamonu Devrekani Devlet Hastanesi	61761	0	0	1	11	0
Balıkesir Havran Devlet Hastanesi	11168	0	17	23	20	0
Konya Cihanbeyli Devlet Hastanesi	149791	0	95	82	54	0
Adana İmamođlu Devlet Hastanesi	63369	0	20	26	68	0
Adıyaman elikhan Devlet Hastanesi	56289	0	91	87	113	0
Ađrı Eleşkirt Devlet Hastanesi	99773	0	136	30	133	0
Ankara Kazan Hamdi Eriş Devlet Hastanesi	274583	1	400	285	198	0
Denizli Honaz Devlet Hastanesi	89280	0	186	39	214	0
Mersin Aydıncık Devlet Hastanesi	68248	0	50	151	214	0
Mersin Bozyazı Devlet Hastanesi	292820	136	1122	2637	5329	0
İzmir iđli Devlet Hastanesi	53252	0	3	25	1	1
İzmir Foa Devlet Hastanesi	37943	0	3	36	20	1
İzmir Kiraz Devlet Hastanesi	74508	0	0	0	24	1
Kayseri Bnyan Devlet Hastanesi	68975	0	9	42	33	1
Kırklareli Vize Devlet Hastanesi	60776	0	17	0	0	2

Konya Dođanhisar Devlet Hastanesi	63039	2	1	2	1	2
Muđla Dalaman Devlet Hastanesi	79287	0	0	0	2	2
Muř Hasköy Devlet Hastanesi	58414	0	0	2	7	2
Samsun Ayvacık Devlet Hastanesi	86426	4	0	55	8	2
Samsun Kavak Devlet Hastanesi	53361	0	8	5	28	2
Samsun Alaçam Devlet Hastanesi	44271	0	0	148	24	3
řanlıurfa Harran Devlet Hastanesi	71038	0	0	0	0	4
Yozgat Bođazlıyan Devlet Hastanesi	135626	0	20	91	30	4
Yozgat Çekerek Devlet Hastanesi	81661	0	11	107	5	5
Yozgat řefaatlil Devlet Hastanesi	140495	0	1	10	2	7
Aksaray Eskil Devlet Hastanesi	170682	0	7	185	135	7
Batman Sason Devlet Hastanesi	49496	0	0	0	0	9
Batman Gercüş Devlet Hastanesi	42386	0	0	0	1	10
řırnak İdil Devlet Hastanesi	78961	0	3	4	22	10
Edirne İpsala Devlet Hastanesi	83458	0	14	33	28	11
Mardin Derik Devlet Hastanesi	65871	2	2	29	3	12
Çorum Mecitözü Devlet Hastanesi	24753	0	0	0	0	14
Denizli Çal Devlet Hastanesi	73438	0	0	1	0	14
Manisa Gördes Devlet Hastanesi	90500	0	0	0	0	16
Çorum Bayat Devlet Hastanesi	57510	0	0	8	9	17
Konya Kadınhanı Refik-Saime Koyuncu Devlet Hastanesi	116890	5	116	416	109	17
Balıkesir Savaştepe Devlet Hastanesi	141086	0	10	36	23	19

Bursa Orhaneli Devlet Hastanesi	47845	2	68	342	108	19
Denizli Sarayk�y Devlet Hastanesi	84514	0	15	28	26	20
Elazığ Karakoan Devlet Hastanesi	79889	0	0	0	0	23
Erzurum Hınıs Devlet Hastanesi	167050	0	222	177	92	23
Giresun Fizik Tedavi Ve Rehabilitasyon Merkezi	149952	0	10	18	50	24
Kayseri Yahyalı Devlet Hastanesi	89023	0	7	101	25	25
Balıkesir İvrindi Devlet Hastanesi	75325	0	31	116	28	26
Muř Bulanık Devlet Hastanesi	141269	0	461	1891	331	27
Konya Karapınar Devlet Hastanesi	131970	1	56	129	149	31
Kırřehir Mucur Devlet Hastanesi	79537	0	0	0	0	34
Siirt Kurtalan Devlet Hastanesi	80159	2	6	16	84	36
Antalya Demre Devlet Hastanesi	179345	0	0	81	126	38
anakkale Yenice Devlet Hastanesi	189990	0	74	394	183	38
Elazığ Kovancılar Devlet Hastanesi	69052	0	0	4	0	40
Hatay Altın�z� Devlet Hastanesi	72175	0	0	7	43	42
İstanbul Tuzla Devlet Hastanesi	154140	0	30	166	288	44
Kastamonu Tařk�pr� Devlet Hastanesi	81031	0	53	45	102	56
Manisa Saruhanlı Devlet Hastanesi	290372	10	662	1795	225	58
Tekirdağ řark�y Devlet Hastanesi	98300	28	451	344	229	63
Sakarya Geyve Devlet Hastanesi	133100	0	51	17	97	65
Eskiřehir Sivrihisar Devlet Hastanesi	104632	0	1	0	0	69

Hakkari Şemdinli Devlet Hastanesi	106565	0	1	109	2	72
Muş Varto Devlet Hastanesi	137659	0	11	69	119	74
Şırnak Silopi Devlet Hastanesi	126188	9	32	173	235	79
Balıkesir Bigadiç Devlet Hastanesi	94260	0	13	56	83	83
Konya Kulu Devlet Hastanesi	118340	3	46	72	169	87
Ordu Aybastı Devlet Hastanesi	87408	0	0	1	10	94
Afyonkarahisar Çay Devlet Hastanesi	79317	0	58	80	55	94
Amasya Taşova Devlet Hastanesi	99846	0	0	24	285	94
Çanakkale Ezine Devlet Hastanesi	56466	0	0	3	11	96
Çanakkale Gökçeada Devlet Hastanesi	92070	0	7	55	54	98
Eskişehir Çifteler Devlet Hastanesi	76765	0	7	6	46	100
Kastamonu Cide Devlet Hastanesi	180412	4	34	131	338	100
Amasya Gümüşhacıköy Devlet Hastanesi	143872	1	9	170	303	103
Denizli Kale Devlet Hastanesi	152493	0	128	421	260	107
Sivas Yıldızeli Devlet Hastanesi	106455	3	179	278	200	114
İstanbul Kağıthane Devlet Hastanesi	98560	0	6	145	238	114
Hatay Samandağı Devlet Hastanesi	154263	7	94	696	92	117
Adana Pozantı 80.Yıl Devlet Hastanesi	65287	0	5	9	118	117
Ankara Şereflikoçhisar Devlet Hastanesi	102407	37	70	121	131	118
Antalya Elmalı Devlet Hastanesi	133551	0	3	145	23	123
Artvin Hopa Devlet Hastanesi	232799	2	218	1324	598	124

Artvin Şavşat Devlet Hastanesi	99889	0	0	110	34	126
Artvin Yusufeli Devlet Hastanesi	85138	0	0	204	183	131
Aydın Didim Devlet Hastanesi	169057	196	291	700	1010	132
Burdur Gölhisar Devlet Hastanesi	61134	0	3	8	0	133
Çorum Alaca Devlet Hastanesi	145877	0	2	41	17	133
Denizli Acıpayam Devlet Hastanesi	146155	740	40	147	244	133
Diyarbakır Çermik Devlet Hastanesi	125117	0	0	51	36	135
Erzurum İspir Devlet Hastanesi	66737	0	0	5	84	135
Erzurum Pasinler İbrahim Hakkı Devlet Hastanesi	139520	0	38	112	194	137
Erzurum Tekman Şehit Piyade Çavuş Muhammet Binici Devlet Hastanesi	780750	41	656	1622	582	139
Hatay Erzin Devlet Hastanesi	213837	3	187	472	284	155
Hatay Hassa Devlet Hastanesi	166252	75	391	537	158	158
Isparta Şarkikaraağaç Devlet Hastanesi	99720	0	11	41	54	161
Mersin Gülnar Devlet Hastanesi	111719	4	93	152	98	162
Mersin Mut Devlet Hastanesi	137124	192	319	477	184	164
İstanbul Büyükçekmece Devlet Hastanesi	85397	0	34	74	330	173
İzmir Selçuk Devlet Hastanesi	135143	0	69	128	252	177
Kırklareli Babaeski Devlet Hastanesi	31520	1	76	52	84	183
Mardin Nusaybin Devlet Hastanesi	280160	2	15	235	333	184
Nevşehir Ürgüp Devlet Hastanesi	95852	3	86	131	58	187
Ordu Akkuş Devlet Hastanesi	215529	3	106	549	721	188

Ordu Glky Devlet Hastanesi	124359	0	3	33	99	190
Ordu Kumru Devlet Hastanesi	135248	0	34	284	381	192
Ordu Korgan Devlet Hastanesi	318404	149	358	781	684	195
Ordu Ulubey Devlet Hastanesi	143864	0	58	139	110	196
Sakarya Hendek Devlet Hastanesi	77305	0	0	87	55	203
Sakarya Pamukova Devlet Hastanesi	98459	0	289	394	252	204
Sinop Ayancık Devlet Hastanesi	106732	0	78	121	553	212
Sinop Durađan Devlet Hastanesi	170970	4	32	277	197	215
Sinop Gerze Devlet Hastanesi	159384	0	291	307	339	225
Tekirdađ Hayrabolu Devlet Hastanesi	68612	0	1	17	10	233
Tekirdađ Muratlı Devlet Hastanesi	159815	0	0	248	337	237
Tokat Reřadiye Devlet Hastanesi	94122	0	4	87	124	241
Uřak Sivaslı Devlet Hastanesi	159511	4	198	769	344	244
Yozgat Akdađmadeni Devlet Hastanesi	132827	1	35	75	111	257
Zonguldak Alaplı Devlet Hastanesi	485314	53	991	1618	1119	262
Aksaray Ortaky Devlet Hastanesi	125126	1	7	65	173	263
Kırkkale Keskin Devlet Hastanesi	77955	25	117	583	482	265
Dzce Akçakoca Devlet Hastanesi	153741	40	312	385	301	273
İstanbul Sarıyer İsmail Akgn Devlet Hastanesi	181183	8	157	382	371	274
Muđla Yatađan Devlet Hastanesi	265952	4	162	226	184	276
Zonguldak Devrek Devlet Hastanesi	164084	3	88	392	223	280
Afyonkarahisar řuhut Devlet Hastanesi	199821	36	30	284	332	285

Ankara Nallıhan Devlet Hastanesi	185048	2	184	260	456	285
Giresun Espiye Devlet Hastanesi	285592	11	202	468	562	285
Kocaeli Kandıra Kazım Dinç Devlet Hastanesi	160623	28	123	214	210	291
Muğla Ortaca Devlet Hastanesi	384386	63	958	1364	582	294
Karabük Safranbolu Devlet Hastanesi	261883	0	513	488	221	312
Denizli Tavas Devlet Hastanesi	253497	145	156	643	317	315
Muş Malazgirt Devlet Hastanesi	233875	19	169	578	612	315
Ankara Haymana Devlet Hastanesi	66912	0	0	1	97	319
Artvin Arhavi Devlet Hastanesi	371355	15	792	1067	1207	324
Erzurum Horasan Devlet Hastanesi	56722	3	114	118	88	339
Kocaeli Karamürsel Devlet Hastanesi	206707	0	0	124	140	343
Ankara Kızılcahamam Devlet Hastanesi	227712	8	268	711	577	344
Çanakkale Gelibolu Devlet Hastanesi	186633	37	189	749	1033	354
Konya Sarayönü Devlet Hastanesi	159338	42	134	351	318	355
Balıkesir Manyas Devlet Hastanesi	74885	0	6	14	332	373
Bitlis Ahlat Devlet Hastanesi	197220	24	236	394	424	373
Konya Çumra Devlet Hastanesi	72995	0	59	127	385	376
Rize Pazar Devlet Hastanesi	364674	0	0	288	808	377
Sakarya Karasu Devlet Hastanesi	129019	0	169	119	407	378
Van Başkale Devlet Hastanesi	128399	18	165	227	395	385
Yozgat Yerköy Devlet Hastanesi	241041	2	143	717	440	388
Ankara Güdül Devlet Hastanesi	202839	21	240	302	609	394

Antalya Korkuteli Devlet Hastanesi	99460	0	99	212	111	400
Denizli Çivril Devlet Hastanesi	393479	63	463	2187	1229	403
Kütahya Emet Devlet Hastanesi	87531	2	86	260	148	408
Malatya Yeşilyurt Hasan Çalık Devlet Hastanesi	350085	5	225	1055	1495	444
Manisa Demirci Devlet Hastanesi	80615	2	85	183	102	463
Manisa Sarıgöl Devlet Hastanesi	201117	0	101	254	363	467
Uşak Banaz Devlet Hastanesi	124825	0	7	119	43	472
Diyarbakır Bismil Devlet Hastanesi	185468	0	217	532	685	486
İstanbul Şişli Devlet Hastanesi	726946	85	1158	1311	744	491
İzmir Bayındır Devlet Hastanesi	830805	169	1740	1954	2463	498
Şanlıurfa Viranşehir Devlet Hastanesi	116109	0	0	345	138	503
Balıkesir Dursunbey Devlet Hastanesi	58125	2	7	121	270	519
Bursa Yenişehir Devlet Hastanesi	476629	66	443	1772	889	521
Adıyaman Besni Devlet Hastanesi	214131	0	59	1267	188	522
Ankara Beypazarı Devlet Hastanesi	184627	2	0	112	144	530
Diyarbakır Ergani Devlet Hastanesi	170552	0	43	326	213	535
Aydın Çine Devlet Hastanesi	452763	55	340	1702	1109	537
Bitlis Güroymak Devlet Hastanesi	104055	0	46	141	433	546
İzmir Bornova Türkan Özilhan Devlet Hastanesi	135223	34	146	431	434	558
Antalya Gazipaşa Devlet Hastanesi	42000	1	0	5	4	562
Aydın Kuşadası Devlet Hastanesi	443856	62	2027	939	567	571
Kocaeli Körfez Devlet Hastanesi	96916	0	11	104	217	572

Sivas Şuêhri Devlet Hastanesi	550583	18	774	1651	1365	577
Sivas Şarkışla Devlet Hastanesi	123801	0	4	66	109	594
Balıkesir Susurluk Devlet Hastanesi	360558	83	1014	1816	1237	600
Gaziantep İslahiye Devlet Hastanesi	458841	84	1495	2994	3419	610
Van Muradiye Devlet Hastanesi	239478	10	366	550	729	614
Manisa Kula Devlet Hastanesi	323507	4	34	2899	186	622
Kastamonu İnebolu Devlet Hastanesi	367201	0	50	406	565	623
Sivas Zara Devlet Hastanesi	337540	24	537	1186	739	629
İzmir Aliğa Devlet Hastanesi	200592	1	249	521	753	636
Ađrı Patnos Devlet Hastanesi	324649	12	169	922	1186	642
Ankara Gölbaşı Hasvak Devlet Hastanesi	240966	17	361	534	504	653
Balıkesir Sındırgı Devlet Hastanesi	117549	2	182	485	476	659
Kastamonu Tosya Devlet Hastanesi	170966	0	0	797	182	669
Şanlıurfa Ceylanpınar Devlet Hastanesi	436953	84	621	1495	857	682
Osmaniye Düziçi Devlet Hastanesi	100533	0	84	179	231	684
Adıyaman Kahta Devlet Hastanesi	266758	20	777	988	750	684
Gümüşhane Kelkit Devlet Hastanesi	136042	0	7	404	392	691
Muđla Bodrum Devlet Hastanesi	437148	65	612	1493	1055	723
Giresun Bulancak Devlet Hastanesi	71810	0	122	190	415	726
Trabzon Of Devlet Hastanesi	120521	2	185	363	506	729
Adıyaman Gölbaşı Devlet Hastanesi	331360	13	284	1486	775	730
Bursa Orhangazi Devlet Hastanesi	244951	0	52	393	196	738

Giresun Tirebolu Devlet Hastanesi	299776	2	329	664	278	751
İstanbul Eyüp Devlet Hastanesi	330495	23	787	1100	590	754
Tekirdağ Malkara Devlet Hastanesi	336617	0	0	1529	310	772
Hatay Kırıkhan Devlet Hastanesi	103754	0	79	495	423	777
Bursa İznik Devlet Hastanesi	102992	0	8	12	9	780
Trabzon Akçaabat Devlet Hastanesi	332136	29	247	972	998	783
Hatay Reyhanlı Devlet Hastanesi	195045	12	66	317	483	786
Kayseri Develi Hatice-Muammer Kocatürk Devlet Hastanesi	222430	14	267	1203	613	791
Samsun Terme Devlet Hastanesi	308174	92	725	1330	1365	796
Balıkesir Gönen Devlet Hastanesi	260009	44	242	886	1307	811
Osmaniye Kadırlı Devlet Hastanesi	168780	162	436	776	1188	814
Adıyaman 82.Yıl Devlet Hastanesi	197220	61	382	715	645	820
Afyonkarahisar Dinar Devlet Hastanesi	117189	22	51	124	199	822
Antalya Kumluca Devlet Hastanesi	317122	111	1187	1588	1076	855
Antalya Serik Devlet Hastanesi	255811	0	58	234	456	864
Bolu Gerede Devlet Hastanesi	409667	0	567	1560	686	866
Çorum İskilip Devlet Hastanesi	87700	0	0	8	6	880
Erzurum Oltu Devlet Hastanesi	88979	2	67	88	57	880
Kahramanmaraş Pazarcık Devlet Hastanesi	327063	105	318	1174	498	880
Sakarya Akyazı Devlet Hastanesi	464021	158	844	2382	782	911
Karaman Ermenek Devlet Hastanesi	533588	107	935	1790	1180	921

Ardahan Devlet Hastanesi	524681	130	1439	1740	1165	924
Kahramanmaraş Afşin Devlet Hastanesi	366166	18	402	1028	1226	927
Samsun Havza Devlet Hastanesi	57209	0	0	0	16	934
Balikesir Ayvalık Devlet Hastanesi	424412	78	1064	3089	2206	942
Bartın Kadın Doğum Ve Çocuk Hastalıkları Hastanesi	119976	1	9	87	70	965
Antalya Finike Devlet Hastanesi	179303	2	409	442	605	968
Isparta Yalvaç Devlet Hastanesi	275774	3	131	718	210	978
Çorum Sungurlu Devlet Hastanesi	113351	25	120	471	427	979
Kırşehir Kaman Devlet Hastanesi	156703	7	193	799	1183	1004
Kütahya Gediz Devlet Hastanesi	594909	275	880	2565	2241	1015
Amasya Suluova Devlet Hastanesi	226376	43	353	374	502	1021
Tokat Erbaa Devlet Hastanesi	195918	21	175	395	1102	1024
Şanlıurfa Birecik Devlet Hastanesi	364420	109	808	1890	2297	1031
Çanakkale Çan Devlet Hastanesi	122859	2	209	476	1356	1040
Giresun Kadın Doğum Ve Çocuk Hastalıkları Hastanesi	278700	3	279	1204	1198	1041
İstanbul Pendik Devlet Hastanesi	113237	0	1	4	86	1071
Bilecik Bozüyük Devlet Hastanesi	563165	106	863	1669	1494	1098
Mersin Erdemli Devlet Hastanesi	323954	39	395	1812	1064	1108
Çorum Osmancık Devlet Hastanesi	261236	46	330	805	645	1121
İzmir Menemen Devlet Hastanesi	209951	12	472	1164	1120	1126
İzmir Urla Devlet Hastanesi	163668	0	67	265	391	1128

Sinop Boyabat 75.Yıl Devlet Hastanesi	562155	98	1539	2754	2532	1154
Bitlis Devlet Hastanesi	412772	85	1784	3173	2753	1188
Gaziantep Nizip Devlet Hastanesi	265424	200	420	783	1088	1197
Bilecik Devlet Hastanesi	229676	8	364	819	627	1201
Bursa Gemlik Muammer Ağım Devlet Hastanesi	168557	1	199	1387	360	1223
İstanbul Tacirler Eğitim Vakfı Sultanbeyli Devlet Hastanesi	473378	360	1724	2607	2057	1244
Artvin Borçka Devlet Hastanesi	94847	1	36	119	260	1256
Yozgat Sorgun Devlet Hastanesi	298264	31	436	855	1593	1264
Zonguldak Çaycuma Devlet Hastanesi	176509	1	72	216	550	1267
Çanakkale Biga Devlet Hastanesi	134966	9	242	526	307	1269
Hatay Dörtyol Devlet Hastanesi	546141	131	800	2237	1366	1286
Konya Beyşehir Devlet Hastanesi	376184	432	1590	2477	1933	1307
Van İpekyolu Devlet Hastanesi	918679	778	1846	3652	2141	1319
Van Erciş Devlet Hastanesi	590683	72	1108	3496	2288	1325
Konya Seydişehir Devlet Hastanesi	106065	0	0	0	96	1372
Tekirdağ Çerkezköy Devlet Hastanesi	483976	116	1439	1934	2676	1431
Afyonkarahisar Sandıklı Devlet Hastanesi	483704	27	867	1050	582	1435
Şırnak Devlet Hastanesi	180937	191	172	337	412	1463
Mersin Anamur Devlet Hastanesi	931491	391	1289	2584	1552	1469
Manisa Alaşehir Devlet Hastanesi	780419	86	1238	3506	1983	1510
Adana Kozan Devlet Hastanesi	437026	432	1265	2788	1424	1518

Ordu Boztepe Devlet Hastanesi	687146	110	974	3642	1282	1527
Hakkari Yüksekova Devlet Hastanesi	941897	81	1103	2125	2265	1534
İstanbul Bayrampaşa Devlet Hastanesi	539233	47	486	2241	1589	1547
Kahramanmaraş Yenişehir Devlet Hastanesi	158947	0	10	276	94	1554
Tokat Niksar Devlet Hastanesi	459236	492	1753	2088	2179	1562
Tokat Zile Devlet Hastanesi	570996	81	1532	3285	2576	1574
Tunceli Devlet Hastanesi	870155	495	3087	4671	4546	1577
Bayburt Devlet Hastanesi	247023	347	1262	2289	5371	1611
Bursa Karacabey Devlet Hastanesi	157343	34	207	125	371	1628
Balıkesir Burhaniye Devlet Hastanesi	329509	34	241	902	1415	1713
Ankara Gazi Mustafa Kemal Devlet Hastanesi	757364	97	754	2837	1869	1736
Hakkari Devlet Hastanesi	299327	2	321	556	946	1803
Mersin Silifke Devlet Hastanesi	91488	18	218	542	630	1807
Samsun Çarşamba Devlet Hastanesi	740265	76	1868	3210	2271	1825
Kilis Devlet Hastanesi	954052	986	3350	6252	3926	1853
Muğla Milas 75.Yıl Devlet Hastanesi	567218	1033	3284	3608	2118	1854
Edirne Keşan Devlet Hastanesi	379962	76	440	883	684	1868
Adana Ceyhan Devlet Hastanesi	641497	210	1607	3070	1888	1872
Ağrı Devlet Hastanesi	236215	18	406	2772	1663	1885
Konya Akşehir Devlet Hastanesi	466341	241	1556	2039	1615	1891
Kocaeli Gebze Fatih Devlet Hastanesi	946854	326	2249	3461	2013	1966
Samsun Vezirköprü Devlet Hastanesi	126344	0	10	94	311	1969

Edirne Uzunköprü Devlet Hastanesi	857434	549	2462	127	3552	2000
Kırşehir Devlet Hastanesi	153926	11	370	560	709	2013
Manisa Akhisar Devlet Hastanesi	232860	33	730	2417	3700	2015
Balıkesir Edremit Devlet Hastanesi	316108	92	1444	2337	2376	2059
İzmir Alsancak Nevvar Salih İşgören Devlet Hastanesi	670744	194	1692	2273	1933	2180
Siirt Devlet Hastanesi	268857	14	57	596	564	2190
Artvin Devlet Hastanesi	284927	72	487	896	1570	2211
Yalova Devlet Hastanesi	137151	9	270	315	452	2269
Gümüşhane Devlet Hastanesi	473542	471	1274	1373	1028	2285
Şanlıurfa Balıklıgöl Devlet Hastanesi	687603	1025	3021	4321	2923	2301
İstanbul Esenyurt Devlet Hastanesi	514940	118	1549	2398	2322	2320
Kocaeli Gölcük Devlet Hastanesi	519651	28	1865	2072	1965	2329
Kastamonu Dr.Münif İslamoğlu Devlet Hastanesi	637999	495	2712	4663	4566	2347
Kırıkkale Devlet Hastanesi	158848	20	38	331	419	2399
İğdır Devlet Hastanesi	410177	17	392	1591	1681	2442
Muğla Fethiye Devlet Hastanesi	207672	94	519	785	1272	2487
Antalya Alanya Devlet Hastanesi	202630	63	209	582	940	2693
Manisa Turgutlu Devlet Hastanesi	704356	98	1215	1788	3119	2720
Kahramanmaraş Elbistan Devlet Hastanesi	447023	143	983	1290	894	2732
Burdur Bucak Devlet Hastanesi	589158	12	1522	2418	1376	2784
Çankırı Devlet Hastanesi	339475	202	1350	2179	2883	2785

Aydın Söke Fehime Faik Kocagöz Devlet Hastanesi	597231	719	2673	3494	6155	2821
Manisa Soma Devlet Hastanesi	129959	0	39	239	256	2848
Sakarya Yenikent Devlet Hastanesi	737341	837	3002	4490	5141	2859
Zonguldak Devlet Hastanesi	587196	30	1183	3144	2722	2938
Konya Ereğli Devlet Hastanesi	401619	118	751	2651	1769	3007
Rize 82.Yıl Devlet Hastanesi	116811	2	288	164	295	3008
Manisa Salihli Devlet Hastanesi	297303	92	634	2007	2335	3074
İzmir Ödemiş Devlet Hastanesi	599369	295	1889	2440	2504	3100
Kırklareli Lüleburgaz Devlet Hastanesi	189845	4	235	452	485	3108
İzmir Karşıyaka Devlet Hastanesi	360127	0	382	734	778	3122
Kütahya Devlet Hastanesi	377211	116	1115	2326	941	3132
Manisa Merkezefendi Devlet Hastanesi	1074434	2342	5147	5974	6147	3173
Samsun Bafra Nafiz Kurt Devlet Hastanesi	759000	70	766	1977	1687	3174
Ankara Polatlı Duatepe Devlet Hastanesi	476034	65	358	643	1714	3176
Bitlis Tatvan Devlet Hastanesi	503722	388	1653	3474	2155	3208
Ordu Ünye Devlet Hastanesi	108693	0	34	202	197	3346
Adıyaman Devlet Hastanesi	695391	180	2174	1963	3992	3447
Muş Devlet Hastanesi	1485582	400	5488	9451	7728	3480
Yozgat Devlet Hastanesi	538909	89	1351	2689	1446	3518
Aydın Atatürk Devlet Hastanesi	247203	373	315	1233	2211	3547
Mardin Devlet Hastanesi	875008	206	2515	4993	3995	3568

Sinop Atatürk Devlet Hastanesi	838274	309	1991	3416	2324	3581
Bartın Devlet Hastanesi	1079282	847	2796	7433	5439	3678
Kırklareli Devlet Hastanesi	223299	3	209	1111	747	3768
Denizli Servergazi Devlet Hastanesi	423648	60	1791	2122	2192	3791
Bursa İnegöl Devlet Hastanesi	751945	138	2114	2388	3139	3858
Sivas Devlet Hastanesi	1312006	904	7953	7372	5842	3918
Elazığ Harput Devlet Hastanesi	540080	291	2929	2618	3229	4202
Ordu Fatsa Devlet Hastanesi	342626	35	365	1333	736	4316
Kocaeli İzmit Seka Devlet Hastanesi	724105	133	600	1971	2179	4370
Konya Beyhekim Devlet Hastanesi	503686	239	1325	2366	1999	4480
Bingöl Devlet Hastanesi	995241	1281	4353	8075	6965	4764
Manisa Devlet Hastanesi	638487	109	1539	3209	2007	4779
Kocaeli Devlet Hastanesi	749371	948	4575	5110	5630	4828
İstanbul Üsküdar Devlet Hastanesi	851849	325	1517	2547	1397	4923
Niğde Devlet Hastanesi	144435	182	549	386	1357	5040
Trabzon Fatih Devlet Hastanesi	402632	39	1087	2489	993	5112
Burdur Devlet Hastanesi	463722	160	1813	2308	5266	5272
Gaziantep 25 Aralık Devlet Hastanesi	278029	0	161	464	1798	5284
İstanbul Paşabahçe Devlet Hastanesi	246658	1	57	254	721	5341
Kars Devlet Hastanesi	788768	276	1263	3491	2850	5499
Balıkesir Bandırma Devlet Hastanesi	307632	57	950	1590	1050	5530
Osmaniye Devlet Hastanesi	894035	1202	5571	8949	8305	5779

Hatay İskenderun Devlet Hastanesi	495098	200	1544	3063	2687	5800
Afyonkarahisar Devlet Hastanesi	1288413	746	3854	4978	1440	5849
Erzincan Devlet Hastanesi	733487	122	1987	2172	2537	6070
Mersin Toros Devlet Hastanesi	887067	430	2447	4504	3554	6165
Kütahya Evliya Çelebi Devlet Hastanesi	649259	371	2903	3834	5283	6311
Tekirdağ Devlet Hastanesi	693386	508	1547	2448	6559	6352
Aksaray Devlet Hastanesi	818609	211	1891	2536	3098	6455
Bolu İzzet Baysal Devlet Hastanesi	1622841	322	4154	10472	9967	6563
Zonguldak Karadeniz Ereğli Devlet Hastanesi	521459	986	1435	2576	1953	7009
Aydın Nazilli Devlet Hastanesi	698002	211	1072	4437	998	7125
İzmir Buca Seyfi Demirsoy Devlet Hastanesi	475497	204	1620	1475	3611	7125
Batman Bölge Devlet Hastanesi	1042015	330	3044	4629	7677	7518
Isparta Devlet Hastanesi	910718	606	3116	5574	5033	7583
Karaman Devlet Hastanesi	319095	37	839	1628	2299	7819
Karabük Devlet Hastanesi	455543	1237	3234	5089	9031	7842
Edirne Devlet Hastanesi	670611	673	1719	2664	3411	8136
Amasya Sabuncuoğlu Şerefeddin Devlet Hastanesi	285427	31	841	1741	1758	8220
Ordu Devlet Hastanesi	494071	88	727	1391	3362	8245
Samsun Gazi Devlet Hastanesi	383669	52	1178	3143	4035	8426
Çanakkale Devlet Hastanesi	562497	64	1737	1776	2697	8671
Muğla Devlet Hastanesi	663014	414	1308	2082	2185	8831

Antalya Atatürk Devlet Hastanesi	560163	384	2966	4258	8843	8876
Zonguldak Atatürk Devlet Hastanesi	219630	397	540	439	1913	8960
Mersin Devlet Hastanesi	493187	116	1660	2189	2470	9040
Balıkesir Devlet Hastanesi	462752	171	1081	3806	4564	9180
Kahramanmaraş Devlet Hastanesi	568074	26	1256	2645	3876	9366
Bursa Çekirge Devlet Hastanesi	668568	1250	3752	4829	7800	9433
Diyarbakır Devlet Hastanesi	323562	0	144	517	3892	9631
Eskişehir Devlet Hastanesi	809398	655	3815	6747	3397	10389
Adana Çukurova Devlet Hastanesi	494151	53	1025	3095	3019	11919
Aydın Devlet Hastanesi	638126	450	4782	4709	3978	12954
Mersin Tarsus Devlet Hastanesi	1171839	993	4863	7007	8802	15484
Denizli Devlet Hastanesi	832888	300	3136	5619	5726	17879
Uşak Devlet Hastanesi	803691	353	3811	5283	2652	18454
Bursa Devlet Hastanesi	893666	1256	3836	4877	8010	19926
Çorum Devlet Hastanesi	657163	306	1402	2195	1629	21675
Malatya Devlet Hastanesi	1468304	334	3010	4545	7671	32978

APPENDIX III: Hospitals RTS Classification

DMU	Input orineted RTS	Output orineted RTS	RTS Region
Adana Ceyhan Devlet Hastanesi	Decreasing	Decreasing	Region III
Adana Çukurova Devlet Hastanesi	Constant	Constant	Region II
Adana Devlet Hastanesi	Decreasing	Decreasing	Region III
Adana İmamoğlu Devlet Hastanesi	Increasing	Increasing	Region I
Adana Karaisalı Devlet Hastanesi	Increasing	Increasing	Region I
Adana Kozan Devlet Hastanesi	Increasing	Increasing	Region I
Adana Pozantı 80.Yıl Devlet Hastanesi	Increasing	Decreasing	Region VI
Adana Tufanbeyli Devlet Hastanesi	Increasing	Decreasing	Region VI
Adıyaman 82.Yıl Devlet Hastanesi	Increasing	Increasing	Region I
Adıyaman Besni Devlet Hastanesi	Increasing	Increasing	Region I
Adıyaman Çelikhan Devlet Hastanesi	Increasing	Decreasing	Region VI
Adıyaman Devlet Hastanesi	Increasing	Increasing	Region I
Adıyaman Gölbaşı Devlet Hastanesi	Increasing	Decreasing	Region VI
Adıyaman Kahta Devlet Hastanesi	Increasing	Increasing	Region I
Afyonkarahisar Başmakçı İlçe Hastanesi	Increasing	Increasing	Region I
Afyonkarahisar Çay Devlet Hastanesi	Constant	Constant	Region II
Afyonkarahisar Devlet Hastanesi	Decreasing	Decreasing	Region III
Afyonkarahisar Dinar Devlet Hastanesi	Increasing	Increasing	Region I
Afyonkarahisar İscehisar İlçe Hastanesi	Increasing	Decreasing	Region VI
Afyonkarahisar Sandıklı Devlet Hastanesi	Increasing	Increasing	Region I
Afyonkarahisar Sinanpaşa İlçe Hastanesi	Increasing	Increasing	Region I
Afyonkarahisar Şuhut Devlet Hastanesi	Increasing	Increasing	Region I
Afyonkarahisar Sultandağı Devlet Hastanesi	Increasing	Increasing	Region I
Ağrı Devlet Hastanesi	Increasing	Increasing	Region I

Ađrı Diyadin Devlet Hastanesi	Increasing	Increasing	Region I
Ađrı Eleřkirt Devlet Hastanesi	Decreasing	Decreasing	Region III
Ađrı Patnos Devlet Hastanesi	Constant	Constant	Region II
Ađrı Tařlıçay Devlet Hastanesi	Increasing	Increasing	Region I
Ađrı Tutak Devlet Hastanesi	Increasing	Increasing	Region I
Aksaray Devlet Hastanesi	Increasing	Decreasing	Region VI
Aksaray Eski Devlet Hastanesi	Increasing	Increasing	Region I
Aksaray Ortaköy Devlet Hastanesi	Increasing	Decreasing	Region VI
Amasya Gümüşhacıköy Devlet Hastanesi	Increasing	Increasing	Region I
Amasya Sabuncuođlu řerefeddin Devlet Hastanesi	Decreasing	Decreasing	Region III
Amasya Suluova Devlet Hastanesi	Increasing	Decreasing	Region VI
Amasya Tařova Devlet Hastanesi	Increasing	Increasing	Region I
Ankara Beypazarı Devlet Hastanesi	Increasing	Increasing	Region I
Ankara Gazi Mustafa Kemal Devlet Hastanesi	Constant	Constant	Region II
Ankara Gölbařı Hasvak Devlet Hastanesi	Increasing	Increasing	Region I
Ankara Güdöl Devlet Hastanesi	Increasing	Increasing	Region I
Ankara Haymana Devlet Hastanesi	Increasing	Increasing	Region I
Ankara Kalecik Devlet Hastanesi	Increasing	Increasing	Region I
Ankara Kazan Hamdi Eriř Devlet Hastanesi	Increasing	Increasing	Region I
Ankara Kızılcahamam Devlet Hastanesi	Increasing	Increasing	Region I
Ankara Nallıhan Devlet Hastanesi	Increasing	Increasing	Region I
Ankara Polatlı Duatepe Devlet Hastanesi	Increasing	Increasing	Region I
Ankara řereflikoçhisar Devlet Hastanesi	Constant	Constant	Region II
Antalya Akseki Devlet Hastanesi	Increasing	Decreasing	Region VI
Antalya Alanya Devlet Hastanesi	Increasing	Increasing	Region I
Antalya Atatürk Devlet Hastanesi	Decreasing	Decreasing	Region III
Antalya Demre Devlet Hastanesi	Increasing	Decreasing	Region VI
Antalya Elmalı Devlet Hastanesi	Increasing	Increasing	Region I
Antalya Finike Devlet Hastanesi	Increasing	Increasing	Region I

Antalya Gazipaşa Devlet Hastanesi	Increasing	Increasing	Region I
Antalya Kaş Devlet Hastanesi	Increasing	Increasing	Region I
Antalya Kemer Devlet Hastanesi	Increasing	Increasing	Region I
Antalya Korkuteli Devlet Hastanesi	Increasing	Increasing	Region I
Antalya Kumluca Devlet Hastanesi	Increasing	Increasing	Region I
Antalya Serik Devlet Hastanesi	Decreasing	Decreasing	Region III
Ardahan Devlet Hastanesi	Constant	Constant	Region II
Ardahan Göle Devlet Hastanesi	Increasing	Increasing	Region I
Ardahan Posof Devlet Hastanesi	Increasing	Increasing	Region I
Artvin Arhavi Devlet Hastanesi	Increasing	Decreasing	Region VI
Artvin Borçka Devlet Hastanesi	Increasing	Increasing	Region I
Artvin Devlet Hastanesi	Increasing	Increasing	Region I
Artvin Hopa Devlet Hastanesi	Increasing	Decreasing	Region VI
Artvin Şavşat Devlet Hastanesi	Increasing	Decreasing	Region VI
Artvin Yusufeli Devlet Hastanesi	Increasing	Increasing	Region I
Aydın Atatürk Devlet Hastanesi	Increasing	Decreasing	Region VI
Aydın Çine Devlet Hastanesi	Increasing	Increasing	Region I
Aydın Devlet Hastanesi	Decreasing	Decreasing	Region III
Aydın Didim Devlet Hastanesi	Increasing	Increasing	Region I
Aydın Germencik Devlet Hastanesi	Increasing	Increasing	Region I
Aydın Kuşadası Devlet Hastanesi	Increasing	Increasing	Region I
Aydın Nazilli Devlet Hastanesi	Increasing	Decreasing	Region VI
Aydın Söke Fehime Faik Kocagöz Devlet Hastanesi	Increasing	Decreasing	Region VI
Balıkesir Ayvalık Devlet Hastanesi	Increasing	Decreasing	Region VI
Balıkesir Bandırma Devlet Hastanesi	Increasing	Decreasing	Region VI
Balıkesir Bigadiç Devlet Hastanesi	Increasing	Decreasing	Region VI
Balıkesir Burhaniye Devlet Hastanesi	Increasing	Decreasing	Region VI
Balıkesir Devlet Hastanesi	Decreasing	Decreasing	Region III
Balıkesir Dursunbey Devlet Hastanesi	Increasing	Increasing	Region I

Balıkesir Edremit Devlet Hastanesi	Decreasing	Decreasing	Region III
Balıkesir Erdek Neyyire Sıtkı Devlet Hastanesi	Increasing	Decreasing	Region VI
Balıkesir Gönen Devlet Hastanesi	Increasing	Decreasing	Region VI
Balıkesir Havran Devlet Hastanesi	Increasing	Decreasing	Region VI
Balıkesir İvrindi Devlet Hastanesi	Increasing	Decreasing	Region VI
Balıkesir Manyas Devlet Hastanesi	Increasing	Increasing	Region I
Balıkesir Savaştepe Devlet Hastanesi	Increasing	Decreasing	Region VI
Balıkesir Sındırgı Devlet Hastanesi	Increasing	Increasing	Region I
Balıkesir Susurluk Devlet Hastanesi	Increasing	Increasing	Region I
Bartın Devlet Hastanesi	Increasing	Decreasing	Region VI
Bartın Kadın Doğum Ve Çocuk Hastalıkları Hastanesi	Constant	Constant	Region II
Bartın Ulus İlçe Hastanesi	Increasing	Increasing	Region I
Batman Bölge Devlet Hastanesi	Constant	Constant	Region II
Batman Gercüş Devlet Hastanesi	Increasing	Increasing	Region I
Batman Sason Devlet Hastanesi	Increasing	Increasing	Region I
Bayburt Devlet Hastanesi	Constant	Constant	Region II
Bilecik Bozüyük Devlet Hastanesi	Decreasing	Decreasing	Region III
Bilecik Devlet Hastanesi	Increasing	Increasing	Region I
Bilecik Söğüt Devlet Hastanesi	Increasing	Decreasing	Region VI
Bingöl Devlet Hastanesi	Increasing	Increasing	Region I
Bingöl Genç Devlet Hastanesi	Increasing	Decreasing	Region VI
Bingöl Solhan Devlet Hastanesi	Increasing	Increasing	Region I
Bitlis Ahlat Devlet Hastanesi	Increasing	Decreasing	Region VI
Bitlis Devlet Hastanesi	Increasing	Increasing	Region I
Bitlis Güroymak Devlet Hastanesi	Increasing	Increasing	Region I
Bitlis Tatvan Devlet Hastanesi	Decreasing	Decreasing	Region III
Bolu Gerede Devlet Hastanesi	Increasing	Increasing	Region I
Bolu İzzet Baysal Devlet Hastanesi	Constant	Constant	Region II
Burdur Bucak Devlet Hastanesi	Decreasing	Decreasing	Region III

Burdur Devlet Hastanesi	Increasing	Increasing	Region I
Burdur Gölhisar Devlet Hastanesi	Constant	Constant	Region II
Burdur Yeşilova Devlet Hastanesi	Constant	Constant	Region II
Bursa Çekirge Devlet Hastanesi	Decreasing	Decreasing	Region III
Bursa Devlet Hastanesi	Decreasing	Decreasing	Region III
Bursa Gemlik Muammer Ağım Devlet Hastanesi	Increasing	Decreasing	Region VI
Bursa İnegöl Devlet Hastanesi	Increasing	Decreasing	Region VI
Bursa İznik Devlet Hastanesi	Increasing	Increasing	Region I
Bursa Karacabey Devlet Hastanesi	Decreasing	Decreasing	Region III
Bursa Orhanlı Devlet Hastanesi	Increasing	Decreasing	Region VI
Bursa Orhangazi Devlet Hastanesi	Increasing	Decreasing	Region VI
Bursa Yenişehir Devlet Hastanesi	Increasing	Increasing	Region I
Çanakkale Ayvacık Devlet Hastanesi	Increasing	Decreasing	Region VI
Çanakkale Bayramiç Devlet Hastanesi	Decreasing	Decreasing	Region III
Çanakkale Biga Devlet Hastanesi	Increasing	Increasing	Region I
Çanakkale Çan Devlet Hastanesi	Increasing	Increasing	Region I
Çanakkale Devlet Hastanesi	Increasing	Decreasing	Region VI
Çanakkale Ezine Devlet Hastanesi	Increasing	Increasing	Region I
Çanakkale Gelibolu Devlet Hastanesi	Increasing	Increasing	Region I
Çanakkale Gökçeada Devlet Hastanesi	Increasing	Decreasing	Region VI
Çanakkale Lapseki Devlet Hastanesi	Increasing	Decreasing	Region VI
Çanakkale Yenice Devlet Hastanesi	Increasing	Decreasing	Region VI
Çankırı Çerkeş Devlet Hastanesi	Increasing	Increasing	Region I
Çankırı Devlet Hastanesi	Increasing	Increasing	Region I
Çankırı Ilgaz Devlet Hastanesi	Increasing	Increasing	Region I
Çorum Alaca Devlet Hastanesi	Increasing	Increasing	Region I
Çorum Bayat Devlet Hastanesi	Increasing	Increasing	Region I
Çorum Devlet Hastanesi	Decreasing	Decreasing	Region III
Çorum İskilip Devlet Hastanesi	Increasing	Increasing	Region I

Çorum Kargı Devlet Hastanesi	Increasing	Decreasing	Region VI
Çorum Mecitözü Devlet Hastanesi	Increasing	Increasing	Region I
Çorum Osmancık Devlet Hastanesi	Increasing	Decreasing	Region VI
Çorum Sungurlu Devlet Hastanesi	Increasing	Increasing	Region I
Denizli Acıpayam Devlet Hastanesi	Increasing	Increasing	Region I
Denizli Çal Devlet Hastanesi	Increasing	Decreasing	Region VI
Denizli Çardak Devlet Hastanesi	Increasing	Increasing	Region I
Denizli Çivril Devlet Hastanesi	Increasing	Decreasing	Region VI
Denizli Devlet Hastanesi	Constant	Constant	Region II
Denizli Honaz Devlet Hastanesi	Increasing	Decreasing	Region VI
Denizli Kale Devlet Hastanesi	Increasing	Increasing	Region I
Denizli Sarayköy Devlet Hastanesi	Increasing	Decreasing	Region VI
Denizli Serinhisar Devlet Hastanesi	Increasing	Increasing	Region I
Denizli Servergazi Devlet Hastanesi	Constant	Constant	Region II
Denizli Tavas Devlet Hastanesi	Increasing	Increasing	Region I
Diyarbakır Bismil Devlet Hastanesi	Increasing	Decreasing	Region VI
Diyarbakır Çermik Devlet Hastanesi	Increasing	Decreasing	Region VI
Diyarbakır Devlet Hastanesi	Constant	Constant	Region II
Diyarbakır Ergani Devlet Hastanesi	Constant	Constant	Region II
Düzce Akçakoca Devlet Hastanesi	Increasing	Increasing	Region I
Edirne Devlet Hastanesi	Decreasing	Decreasing	Region III
Edirne İpsala Devlet Hastanesi	Increasing	Increasing	Region I
Edirne Keşan Devlet Hastanesi	Increasing	Increasing	Region I
Edirne Uzunköprü Devlet Hastanesi	Increasing	Increasing	Region I
Elazığ Harput Devlet Hastanesi	Increasing	Decreasing	Region VI
Elazığ Karakoçan Devlet Hastanesi	Increasing	Decreasing	Region VI
Elazığ Kovancılar Devlet Hastanesi	Increasing	Increasing	Region I
Elazığ Maden Devlet Hastanesi	Increasing	Increasing	Region I
Elazığ Palu Devlet Hastanesi	Increasing	Decreasing	Region VI

Erzincan Devlet Hastanesi	Increasing	Decreasing	Region VI
Erzincan Tercan Devlet Hastanesi	Increasing	Increasing	Region I
Erzincan Üzümlü Devlet Hastanesi	Increasing	Increasing	Region I
Erzurum Hınıs Devlet Hastanesi	Increasing	Decreasing	Region VI
Erzurum Horasan Devlet Hastanesi	Increasing	Decreasing	Region VI
Erzurum İspir Devlet Hastanesi	Increasing	Decreasing	Region VI
Erzurum Oltu Devlet Hastanesi	Increasing	Increasing	Region I
Erzurum Pasinler İbrahim Hakkı Devlet Hastanesi	Increasing	Decreasing	Region VI
Erzurum Tekman Şehit Piyade Çavuş Muhammet Binici Devlet Hastanesi	Increasing	Increasing	Region I
Eskişehir Çifteler Devlet Hastanesi	Increasing	Decreasing	Region VI
Eskişehir Devlet Hastanesi	Decreasing	Decreasing	Region III
Eskişehir Sivrihisar Devlet Hastanesi	Increasing	Increasing	Region I
Gaziantep 25 Aralık Devlet Hastanesi	Decreasing	Decreasing	Region III
Gaziantep İslahiye Devlet Hastanesi	Increasing	Decreasing	Region VI
Gaziantep Nizip Devlet Hastanesi	Increasing	Increasing	Region I
Giresun Bulancak Devlet Hastanesi	Increasing	Decreasing	Region VI
Giresun Espiye Devlet Hastanesi	Decreasing	Decreasing	Region III
Giresun Fizik Tedavi Ve Rehabilitasyon Merkezi	Increasing	Increasing	Region I
Giresun Kadın Doğum Ve Çocuk Hastalıkları Hastanesi	Constant	Constant	Region II
Giresun Tirebolu Devlet Hastanesi	Increasing	Decreasing	Region VI
Gümüşhane Devlet Hastanesi	Increasing	Increasing	Region I
Gümüşhane Kelkit Devlet Hastanesi	Increasing	Increasing	Region I
Gümüşhane Şiran Devlet Hastanesi	Increasing	Increasing	Region I
Hakkari Devlet Hastanesi	Constant	Constant	Region II
Hakkari Şemdinli Devlet Hastanesi	Increasing	Increasing	Region I
Hakkari Yüksekova Devlet Hastanesi	Increasing	Decreasing	Region VI
Hatay Altınözü Devlet Hastanesi	Constant	Constant	Region II
Hatay Dört Yol Devlet Hastanesi	Increasing	Decreasing	Region VI
Hatay Erzincan Devlet Hastanesi	Increasing	Increasing	Region I

Hatay Hassa Devlet Hastanesi	Increasing	Increasing	Region I
Hatay İskenderun Devlet Hastanesi	Decreasing	Decreasing	Region III
Hatay Kırıkhan Devlet Hastanesi	Increasing	Increasing	Region I
Hatay Reyhanlı Devlet Hastanesi	Increasing	Increasing	Region I
Hatay Samandağı Devlet Hastanesi	Decreasing	Decreasing	Region III
Iğdır Devlet Hastanesi	Decreasing	Decreasing	Region III
Iğdır Tuzluca Devlet Hastanesi	Increasing	Decreasing	Region VI
Isparta Devlet Hastanesi	Increasing	Decreasing	Region VI
Isparta Keçiborlu Devlet Hastanesi	Increasing	Decreasing	Region VI
Isparta Şarkikaraağaç Devlet Hastanesi	Increasing	Increasing	Region I
Isparta Senirkent Devlet Hastanesi	Increasing	Increasing	Region I
Isparta Uluborlu Devlet Hastanesi	Increasing	Increasing	Region I
Isparta Yalvaç Devlet Hastanesi	Increasing	Decreasing	Region VI
İstanbul Bayrampaşa Devlet Hastanesi	Increasing	Increasing	Region I
İstanbul Büyükçekmece Devlet Hastanesi	Decreasing	Decreasing	Region III
İstanbul Esenyurt Devlet Hastanesi	Increasing	Increasing	Region I
İstanbul Eyüp Devlet Hastanesi	Constant	Constant	Region II
İstanbul Kağıthane Devlet Hastanesi	Increasing	Increasing	Region I
İstanbul Paşabahçe Devlet Hastanesi	Decreasing	Decreasing	Region III
İstanbul Pendik Devlet Hastanesi	Decreasing	Decreasing	Region III
İstanbul Sarıyer İsmail Akgün Devlet Hastanesi	Increasing	Increasing	Region I
İstanbul Şile Devlet Hastanesi	Increasing	Decreasing	Region VI
İstanbul Şişli Devlet Hastanesi	Constant	Constant	Region II
İstanbul Tacirler Eğitim Vakfı Sultanbeyli Devlet Hastanesi	Constant	Constant	Region II
İstanbul Tuzla Devlet Hastanesi	Decreasing	Decreasing	Region III
İstanbul Üsküdar Devlet Hastanesi	Increasing	Increasing	Region I
İzmir Aliğa Devlet Hastanesi	Increasing	Increasing	Region I
İzmir Alsancak Nevvar Salih İşgören Devlet Hastanesi	Decreasing	Decreasing	Region III
İzmir Bayındır Devlet Hastanesi	Decreasing	Decreasing	Region III

İzmir Bornova Türkan Özilhan Devlet Hastanesi	Increasing	Increasing	Region I
İzmir Buca Seyfi Demirsoy Devlet Hastanesi	Decreasing	Decreasing	Region III
İzmir Çiğli Devlet Hastanesi	Increasing	Decreasing	Region VI
İzmir Foça Devlet Hastanesi	Increasing	Increasing	Region I
İzmir Karşıyaka Devlet Hastanesi	Increasing	Decreasing	Region VI
İzmir Kiraz Devlet Hastanesi	Increasing	Decreasing	Region VI
İzmir Menemen Devlet Hastanesi	Constant	Constant	Region II
İzmir Ödemiş Devlet Hastanesi	Increasing	Increasing	Region I
İzmir Selçuk Devlet Hastanesi	Increasing	Increasing	Region I
İzmir Urla Devlet Hastanesi	Increasing	Increasing	Region I
Kahramanmaraş Afşin Devlet Hastanesi	Increasing	Increasing	Region I
Kahramanmaraş Andırın Devlet Hastanesi	Increasing	Decreasing	Region VI
Kahramanmaraş Devlet Hastanesi	Constant	Constant	Region II
Kahramanmaraş Elbistan Devlet Hastanesi	Increasing	Increasing	Region I
Kahramanmaraş Pazarcık Devlet Hastanesi	Increasing	Decreasing	Region VI
Kahramanmaraş Yenişehir Devlet Hastanesi	Increasing	Increasing	Region I
Karabük Devlet Hastanesi	Increasing	Decreasing	Region VI
Karabük Safranbolu Devlet Hastanesi	Increasing	Increasing	Region I
Karabük Yenice Devlet Hastanesi	Increasing	Increasing	Region I
Karaman Devlet Hastanesi	Decreasing	Decreasing	Region III
Karaman Ermenek Devlet Hastanesi	Increasing	Increasing	Region I
Kars Devlet Hastanesi	Decreasing	Decreasing	Region III
Kastamonu Araç Devlet Hastanesi	Increasing	Constant	Region IV
Kastamonu Bozkurt Devlet Hastanesi	Increasing	Increasing	Region I
Kastamonu Cide Devlet Hastanesi	Increasing	Decreasing	Region VI
Kastamonu Daday Devlet Hastanesi	Increasing	Increasing	Region I
Kastamonu Devrekani Devlet Hastanesi	Increasing	Increasing	Region I
Kastamonu Dr.Münif İslamoğlu Devlet Hastanesi	Increasing	Increasing	Region I
Kastamonu İnebolu Devlet Hastanesi	Increasing	Increasing	Region I

Kastamonu Taşköprü Devlet Hastanesi	Increasing	Increasing	Region I
Kastamonu Tosya Devlet Hastanesi	Increasing	Increasing	Region I
Kayseri Bünyan Devlet Hastanesi	Increasing	Increasing	Region I
Kayseri Develi Hatice-Muammer Kocatürk Devlet Hastanesi	Constant	Constant	Region II
Kayseri Tomarza Devlet Hastanesi	Increasing	Increasing	Region I
Kayseri Yahyalı Devlet Hastanesi	Increasing	Increasing	Region I
Kayseri Yeşilhisar Devlet Hastanesi	Constant	Constant	Region II
Kilis Devlet Hastanesi	Increasing	Increasing	Region I
Kırıkkale Devlet Hastanesi	Increasing	Increasing	Region I
Kırıkkale Keskin Devlet Hastanesi	Increasing	Decreasing	Region VI
Kırklareli Babaeski Devlet Hastanesi	Decreasing	Decreasing	Region III
Kırklareli Devlet Hastanesi	Increasing	Increasing	Region I
Kırklareli Lüleburgaz Devlet Hastanesi	Decreasing	Decreasing	Region III
Kırklareli Pınarhisar Devlet Hastanesi	Increasing	Increasing	Region I
Kırklareli Vize Devlet Hastanesi	Increasing	Decreasing	Region VI
Kırşehir Devlet Hastanesi	Increasing	Increasing	Region I
Kırşehir Kaman Devlet Hastanesi	Increasing	Increasing	Region I
Kırşehir Mucur Devlet Hastanesi	Constant	Constant	Region II
Kocaeli İzmit Seka Devlet Hastanesi	Decreasing	Decreasing	Region III
Kocaeli Devlet Hastanesi	Increasing	Decreasing	Region VI
Kocaeli Gebze Fatih Devlet Hastanesi	Increasing	Decreasing	Region VI
Kocaeli Gölcük Devlet Hastanesi	Increasing	Decreasing	Region VI
Kocaeli Kandıra Kazım Dinç Devlet Hastanesi	Decreasing	Decreasing	Region III
Kocaeli Karamürsel Devlet Hastanesi	Increasing	Decreasing	Region VI
Kocaeli Körfez Devlet Hastanesi	Increasing	Increasing	Region I
Konya Akşehir Devlet Hastanesi	Increasing	Increasing	Region I
Konya Beyhekim Devlet Hastanesi	Increasing	Decreasing	Region VI
Konya Beyşehir Devlet Hastanesi	Increasing	Decreasing	Region VI
Konya Bozkır Devlet Hastanesi	Increasing	Decreasing	Region VI

Konya Cihanbeyli Devlet Hastanesi	Decreasing	Decreasing	Region III
Konya Çumra Devlet Hastanesi	Increasing	Increasing	Region I
Konya Doğanhisar Devlet Hastanesi	Increasing	Increasing	Region I
Konya Ereğli Devlet Hastanesi	Increasing	Decreasing	Region VI
Konya Hüyük Devlet Hastanesi	Increasing	Decreasing	Region VI
Konya Kadınhanı Refik-Saime Koyuncu Devlet Hastanesi	Increasing	Decreasing	Region VI
Konya Karapınar Devlet Hastanesi	Increasing	Decreasing	Region VI
Konya Kulu Devlet Hastanesi	Increasing	Increasing	Region I
Konya Sarayönü Devlet Hastanesi	Increasing	Decreasing	Region VI
Konya Seydişehir Devlet Hastanesi	Increasing	Decreasing	Region VI
Konya Yunak Hacı İzzet Baysal Devlet Hastanesi	Decreasing	Decreasing	Region III
Kütahya Devlet Hastanesi	Increasing	Increasing	Region I
Kütahya Emet Devlet Hastanesi	Decreasing	Decreasing	Region III
Kütahya Evliya Çelebi Devlet Hastanesi	Decreasing	Decreasing	Region III
Kütahya Gediz Devlet Hastanesi	Decreasing	Decreasing	Region III
Malatya Devlet Hastanesi	Decreasing	Decreasing	Region III
Malatya Doğanşehir Devlet Hastanesi	Increasing	Decreasing	Region VI
Malatya Hekimhan Devlet Hastanesi	Increasing	Decreasing	Region VI
Malatya Pötürge Devlet Hastanesi	Increasing	Increasing	Region I
Malatya Yeşilyurt Hasan Çalık Devlet Hastanesi	Decreasing	Decreasing	Region III
Manisa Akhisar Devlet Hastanesi	Increasing	Increasing	Region I
Manisa Alaşehir Devlet Hastanesi	Increasing	Increasing	Region I
Manisa Demirci Devlet Hastanesi	Increasing	Increasing	Region I
Manisa Devlet Hastanesi	Constant	Constant	Region II
Manisa Gördes Devlet Hastanesi	Increasing	Increasing	Region I
Manisa Kırkağaç Devlet Hastanesi	Increasing	Increasing	Region I
Manisa Kula Devlet Hastanesi	Increasing	Decreasing	Region VI
Manisa Merkezefendi Devlet Hastanesi	Increasing	Increasing	Region I
Manisa Salihli Devlet Hastanesi	Increasing	Increasing	Region I

Manisa Sarıgöl Devlet Hastanesi	Increasing	Increasing	Region I
Manisa Saruhanlı Devlet Hastanesi	Increasing	Increasing	Region I
Manisa Selendi Devlet Hastanesi	Increasing	Decreasing	Region VI
Manisa Soma Devlet Hastanesi	Increasing	Increasing	Region I
Manisa Turgutlu Devlet Hastanesi	Increasing	Decreasing	Region VI
Mardin Derik Devlet Hastanesi	Increasing	Decreasing	Region VI
Mardin Devlet Hastanesi	Increasing	Decreasing	Region VI
Mardin Nusaybin Devlet Hastanesi	Decreasing	Decreasing	Region III
Mersin Anamur Devlet Hastanesi	Increasing	Increasing	Region I
Mersin Aydınçık Devlet Hastanesi	Increasing	Decreasing	Region VI
Mersin Bozyazı Devlet Hastanesi	Increasing	Decreasing	Region VI
Mersin Devlet Hastanesi	Decreasing	Decreasing	Region III
Mersin Erdemli Devlet Hastanesi	Increasing	Decreasing	Region VI
Mersin Gülnar Devlet Hastanesi	Increasing	Decreasing	Region VI
Mersin Mut Devlet Hastanesi	Increasing	Decreasing	Region VI
Mersin Silifke Devlet Hastanesi	Increasing	Increasing	Region I
Mersin Tarsus Devlet Hastanesi	Constant	Constant	Region II
Mersin Toros Devlet Hastanesi	Increasing	Decreasing	Region VI
Muğla Bodrum Devlet Hastanesi	Increasing	Increasing	Region I
Muğla Dalaman Devlet Hastanesi	Increasing	Increasing	Region I
Muğla Datça Devlet Hastanesi	Increasing	Decreasing	Region VI
Muğla Devlet Hastanesi	Increasing	Decreasing	Region VI
Muğla Fethiye Devlet Hastanesi	Decreasing	Decreasing	Region III
Muğla Milas 75.Yıl Devlet Hastanesi	Increasing	Increasing	Region I
Muğla Ortaca Devlet Hastanesi	Increasing	Increasing	Region I
Muğla Yatağan Devlet Hastanesi	Increasing	Increasing	Region I
Muş Bulanık Devlet Hastanesi	Increasing	Increasing	Region I
Muş Devlet Hastanesi	Decreasing	Decreasing	Region III
Muş Hasköy Devlet Hastanesi	Increasing	Decreasing	Region VI

Muş Malazgirt Devlet Hastanesi	Increasing	Decreasing	Region VI
Muş Varto Devlet Hastanesi	Increasing	Increasing	Region I
Nevşehir Ürgüp Devlet Hastanesi	Increasing	Decreasing	Region VI
Niğde Devlet Hastanesi	Increasing	Increasing	Region I
Ordu Akkuş Devlet Hastanesi	Increasing	Decreasing	Region VI
Ordu Aybastı Devlet Hastanesi	Increasing	Decreasing	Region VI
Ordu Boztepe Devlet Hastanesi	Constant	Constant	Region II
Ordu Devlet Hastanesi	Decreasing	Decreasing	Region III
Ordu Fatsa Devlet Hastanesi	Decreasing	Decreasing	Region III
Ordu Gölköy Devlet Hastanesi	Increasing	Increasing	Region I
Ordu Gürgentepe Devlet Hastanesi	Constant	Constant	Region II
Ordu Korgan Devlet Hastanesi	Increasing	Decreasing	Region VI
Ordu Kumru Devlet Hastanesi	Increasing	Increasing	Region I
Ordu Ulubey Devlet Hastanesi	Increasing	Increasing	Region I
Ordu Ünye Devlet Hastanesi	Decreasing	Decreasing	Region III
Osmaniye Bahçe Devlet Hastanesi	Increasing	Increasing	Region I
Osmaniye Devlet Hastanesi	Decreasing	Decreasing	Region III
Osmaniye Düziçi Devlet Hastanesi	Increasing	Increasing	Region I
Osmaniye Kadirli Devlet Hastanesi	Increasing	Increasing	Region I
Rize 82.Yıl Devlet Hastanesi	Increasing	Increasing	Region I
Rize Pazar Devlet Hastanesi	Increasing	Decreasing	Region VI
Sakarya Akyazı Devlet Hastanesi	Increasing	Decreasing	Region VI
Sakarya Geyve Devlet Hastanesi	Increasing	Decreasing	Region VI
Sakarya Hendek Devlet Hastanesi	Increasing	Increasing	Region I
Sakarya Karasu Devlet Hastanesi	Increasing	Increasing	Region I
Sakarya Pamukova Devlet Hastanesi	Increasing	Decreasing	Region VI
Sakarya Yenikent Devlet Hastanesi	Increasing	Decreasing	Region VI
Samsun Alaçam Devlet Hastanesi	Increasing	Decreasing	Region VI
Samsun Ayvacık Devlet Hastanesi	Increasing	Increasing	Region I

Samsun Bafra Nafiz Kurt Devlet Hastanesi	Increasing	Increasing	Region I
Samsun arşamba Devlet Hastanesi	Increasing	Increasing	Region I
Samsun Gazi Devlet Hastanesi	Decreasing	Decreasing	Region III
Samsun Havza Devlet Hastanesi	Increasing	Increasing	Region I
Samsun Kavak Devlet Hastanesi	Increasing	Increasing	Region I
Samsun Ladik Devlet Hastanesi	Increasing	Decreasing	Region VI
Samsun Terme Devlet Hastanesi	Increasing	Decreasing	Region VI
Samsun Vezirköprü Devlet Hastanesi	Increasing	Increasing	Region I
Şanlıurfa Akçakale Devlet Hastanesi	Increasing	Increasing	Region I
Şanlıurfa Balıklıgöl Devlet Hastanesi	Constant	Constant	Region II
Şanlıurfa Birecik Devlet Hastanesi	Constant	Constant	Region II
Şanlıurfa Ceylanpınar Devlet Hastanesi	Constant	Constant	Region II
Şanlıurfa Harran Devlet Hastanesi	Increasing	Decreasing	Region VI
Şanlıurfa Hilvan Devlet Hastanesi	Increasing	Increasing	Region I
Şanlıurfa Viranşehir Devlet Hastanesi	Constant	Constant	Region II
Siirt Devlet Hastanesi	Decreasing	Decreasing	Region III
Siirt Kurtalan Devlet Hastanesi	Increasing	Increasing	Region I
Sinop Atatürk Devlet Hastanesi	Increasing	Increasing	Region I
Sinop Ayancık Devlet Hastanesi	Constant	Constant	Region II
Sinop Boyabat 75.Yıl Devlet Hastanesi	Increasing	Increasing	Region I
Sinop Durağan Devlet Hastanesi	Increasing	Increasing	Region I
Sinop Gerze Devlet Hastanesi	Increasing	Increasing	Region I
Şırnak Beytüşşebap Devlet Hastanesi	Constant	Constant	Region II
Şırnak Devlet Hastanesi	Increasing	Increasing	Region I
Şırnak İdil Devlet Hastanesi	Increasing	Increasing	Region I
Şırnak Silopi Devlet Hastanesi	Increasing	Increasing	Region I
Sivas Devlet Hastanesi	Decreasing	Decreasing	Region III
Sivas Gemerek Devlet Hastanesi	Decreasing	Decreasing	Region III
Sivas Şarkışla Devlet Hastanesi	Increasing	Increasing	Region I

Sivas Suşehri Devlet Hastanesi	Increasing	Increasing	Region I
Sivas Yıldızeli Devlet Hastanesi	Increasing	Increasing	Region I
Sivas Zara Devlet Hastanesi	Increasing	Decreasing	Region VI
Tekirdağ Çerkezköy Devlet Hastanesi	Increasing	Increasing	Region I
Tekirdağ Devlet Hastanesi	Increasing	Decreasing	Region VI
Tekirdağ Hayrabolu Devlet Hastanesi	Increasing	Decreasing	Region VI
Tekirdağ Malkara Devlet Hastanesi	Increasing	Increasing	Region I
Tekirdağ Muratlı Devlet Hastanesi	Decreasing	Decreasing	Region III
Tekirdağ Şarköy Devlet Hastanesi	Increasing	Decreasing	Region VI
Tokat Almus Devlet Hastanesi	Increasing	Increasing	Region I
Tokat Erbaa Devlet Hastanesi	Increasing	Decreasing	Region VI
Tokat Niksar Devlet Hastanesi	Increasing	Decreasing	Region VI
Tokat Reşadiye Devlet Hastanesi	Increasing	Decreasing	Region VI
Tokat Zile Devlet Hastanesi	Increasing	Increasing	Region I
Trabzon Akçaabat Devlet Hastanesi	Increasing	Decreasing	Region VI
Trabzon Fatih Devlet Hastanesi	Decreasing	Decreasing	Region III
Trabzon Maçka Mehmet Aktürk Devlet Hastanesi	Constant	Constant	Region II
Trabzon Of Devlet Hastanesi	Decreasing	Decreasing	Region III
Trabzon Tonya Devlet Hastanesi	Constant	Constant	Region II
Tunceli Devlet Hastanesi	Constant	Constant	Region II
Uşak Banaz Devlet Hastanesi	Increasing	Decreasing	Region VI
Uşak Devlet Hastanesi	Decreasing	Decreasing	Region III
Uşak Sivashlı Devlet Hastanesi	Increasing	Decreasing	Region VI
Van Başkale Devlet Hastanesi	Decreasing	Decreasing	Region III
Van Erciş Devlet Hastanesi	Increasing	Increasing	Region I
Van İpekyolu Devlet Hastanesi	Constant	Constant	Region II
Van Muradiye Devlet Hastanesi	Decreasing	Decreasing	Region III
Van Özalp Devlet Hastanesi	Constant	Constant	Region II
Yalova Devlet Hastanesi	Increasing	Decreasing	Region VI

Yozgat Akdağmadeni Devlet Hastanesi	Increasing	Decreasing	Region VI
Yozgat Boğazlıyan Devlet Hastanesi	Increasing	Increasing	Region I
Yozgat Çekerek Devlet Hastanesi	Increasing	Decreasing	Region VI
Yozgat Devlet Hastanesi	Increasing	Increasing	Region I
Yozgat Sarıkaya Devlet Hastanesi	Increasing	Decreasing	Region VI
Yozgat Şefaati Devlet Hastanesi	Increasing	Decreasing	Region VI
Yozgat Sorgun Devlet Hastanesi	Increasing	Increasing	Region I
Yozgat Yerköy Devlet Hastanesi	Increasing	Decreasing	Region VI
Zonguldak Alaplı Devlet Hastanesi	Increasing	Increasing	Region I
Zonguldak Atatürk Devlet Hastanesi	Decreasing	Decreasing	Region III
Zonguldak Çaycuma Devlet Hastanesi	Increasing	Increasing	Region I
Zonguldak Devlet Hastanesi	Increasing	Increasing	Region I
Zonguldak Devrek Devlet Hastanesi	Increasing	Increasing	Region I
Zonguldak Karadeniz Ereğli Devlet Hastanesi	Decreasing	Decreasing	Region III

RESUME

Sinemis Zengin was born 21st of August in Yalova. She graduated from Yalova Sehit Osman Altinkuyu high school at 2005. In 2009, she had her Industrial Engineer Bachelor's Degree from Sakarya University. After graduation, she started to his master study in Industrial Engineering Department of Marmara University.