



Demographic Characteristics of Patients Admitted to Private Hospital Emergency Service

Özel Hastane Acil Servisine Başvuran Hastaların Demografik Özellikleri

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Abstract

Aim: Increasing the productivity of emergency services is only possible with the documentation and analysis of data on services provided. In this study, we aimed to evaluate demographic characteristics of patients admitted to the emergency unit using a computer-based patient registry system.

Material and Method: 33,886 outpatients admitted to the emergency unit between 01.09.2017 and 31.08.2019 were retrospectively analyzed. Demographic characteristics of the patients, main complaints, time of admission, triage classification, and International Classification of Diseases diagnosis codes were evaluated.

Results: Among outpatients admitted to the emergency unit, 58% were males and 42% were females. A total of 43% outpatients were 0-12 months of age, 21% were 1-5 years of age, 15% were 28-39 years of age, and 9% were 40-64 years of age. In total, 39% outpatients were admitted to the emergency unit due to upper respiratory tract diseases. Of the patients, 95,42% were treated in the outpatient setting. The highest admission rates were in December and January. The highest admission rate was on Sunday, while the least was on Wednesday and Thursday. The highest admission time period was between 20:00–00:00, while the least was between 04:00–08:00.

Conclusion: Our study results show that supportive measures for healthcare professionals including specialists and medical equipment should be provided, in particular between 20:00–00:00, at the weekends, and in winter seasons, when the overall admission rate increases. Based on these results, we suggest that documentation and analysis of demographic data of patients admitted to the emergency unit can contribute to physical and labor force planning of emergency units.

Keywords: Emergency, triage, private hospital

Öz

Amaç: Acil servis hizmetlerinin daha verimli hale getirilebilmesi ancak verilen hizmete ait verilerin dokümantasyonu ve değerlendirilmesi ile mümkün olabilir. Bu çalışmada bilgisayar tabanlı hasta veri kayıt sistemi kullanılarak acil servise başvuran hastalar demografik açıdan değerlendirildi.

Gereç ve Yöntem: 01.09.2017 ile 31.08.2019 tarihleri arasında acil servise ayakta başvuran 33.886 hasta retrospektif olarak değerlendirildi. Hastaların demografik özellikleri, şikâyetleri, başvuru saati, triaj sınıflaması ICD tanı kodlama sistemine göre tanıları değerlendirildi.

Bulgular: Acile başvuran hastaların %58 erkek, %42 kadın idi. Hastalarımızın %43'ü 0-12 ay yaş grubunda, %21'i 1-5 yaş grubunda, %15'i hasta 18-39 yaş grubunda, ve %9'u 40-64 yaş grubunda idi. Hastaların %39'u hasta üst solunum yolu hastalıkları nedeniyle başvurmuştu. Hastaların %95,42'si ayakta tedavisi yapılmıştır. En fazla başvuru Aralık (%12) ve Ocak (%11) aylarında yapılmıştı. Hastaların en çok başvuru yaptığı gün pazar (%25), en az ise çarşamba ve perşembe (%10) idi. En çok başvuru yapılan saat 20-00 (%30) en az ise 04-08 (%7) idi.

Sonuç: Hasta yoğunluğunu fazla olduğu kış aylarında, hafta sonu ve 20 ila 24 saatleri arasında hekim, sağlık personeli ve araç-gereç takviyesi gerektiği görülmektedir. Acil servise başvuran hastaların demografik verilerinin kaydı ve analizi, acil servislerin fiziki ve işgücü planlaması açısından katkıda bulunabilir.

Anahtar kelimeler: Acil servis, triyaj, özel hastane



INTRODUCTION

Emergency services are the healthcare units that have to make a rapid and at the same time correct diagnosis due to the organ or life risk of the patient group they serve and provide this service 24 hours a day, seven days a week. Therefore, due to many sociological reasons such as fast and minimum waiting time in emergency services, not requesting co-payments from patients, rapid turnover of examination results, application of non-emergency patients with simple ailments to receive services, the emergency services become crowded.

Overcrowding of the emergency service causes personel and equipment shortages, and this vicious circle leads to patient and employee dissatisfaction. Bringing the emergency department staff and equipment to the most appropriate number and quality will contribute to the satisfaction of the patient/patient relatives and employees. For this reason, both the physical conditions of the emergency services and the competence and number of staff should be at an optimal state. The most ideal number and quality of required emergency service personnel, equipment are tried to be provided by both examining the emergency service applications, and retrospectively investigating the patients.

In this way, the extent which the increase in the number of patients due to seasonally increasing diseases is reflected in the emergency service is determined. It can also contribute to the organization of polyclinics of hospitals.^[1-3]

In our country, healthcare service and emergency healthcare, which has an important place in this service, are provided by public hospitals, while a significant portion of this service by private hospitals established by private enterprises. Private hospitals are owned by real or legal persons and provide examination, medical intervention, surgery, medical care and necessary treatments for inpatients or outpatients.^[4]

In this study, it was aimed to contribute to the data of our country by determining the demographic and epidemiological characteristics of the patients who applied to the emergency service of a private hospital in Istanbul.

MATERIAL AND METHOD

Necessary permissions were obtained from the hospital administration for this study. The study was a retrospective and file-scanning study and ethics committee approval was taken from the Clinical Research Ethic Committee of Sultangazi Haseki Research and Education Hospital. The file numbers of the patients who applied to the private hospital emergency service during 24 months between 09.01.2017 and 08.31.2019 were retrieved from the hospital patient information system. Again, the file numbers and patient records were analyzed retrospectively from the hospital information system. Patients whose medical charts could not be reached and those with missing information were excluded from the study. A total of 33,886 patients were included in the study. The demographic characteristics of the patients included in

the study were evaluated in terms of the time of their admission, triage classification and diagnoses they received. Admission times were grouped according to the month (January, February, March, April, May, June, July, August, September, October, November, December), day (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday) and hourly shifts in the time periods of the day. (00:00-03:59, 04:00-07:59, 08:00-11:59, 12:00-15:59, 16:00-19:59, 20:00-23:59). Triage classification was made according to Annex-7 mentioned in the section 'Color Coding and Triage Application' in Article 8 of the 'Communiqué on the Application Procedures and Principles of Emergency Services Provided in Inpatient Health Care Facilities' published by the Ministry of Health in the Official Gazette with the number 27378 on October 16, 2019.^[5]

Statistical Analysis: Results of the data analyzed were evaluated using Microsoft Excel XP and SPSS (version 13.0, SPSS Inc., Chicago, Illinois, USA) programs. Values are given as numbers and percentages.

RESULTS

A total of 34,126 patients applied to the private hospital where the study was conducted for two years. Two hundred and forty patients were excluded from the study, and 33,886 patients were included in the study.

During this period 19,464 (58%) male, and 14,422 (42%) female patients applied to the hospital. Average ages of the male, and female patients were 13.86, and 14.95, years respectively. While 43% (14,644) of the patients referred to our hospitals were infants (**Table 1**).

Table 1. Distribution of the patients admitted according to age and gender

Age Groups	Male		Female		Total	
	n	%	n	%	n	%
Infancy (0-12 months)	8.514	25	6.130	18	14.644	43
Preschool (1-5 years)	4.153	12	3.147	9	7.300	21
School Age (6-11 years)	1.342	4	949	3	2.291	7
Adolescence (12-17 years)	489	1	348	1	837	2
Youth (18-39 years)	3.131	9	2.175	6	5.306	15
Middle Age (40-64 years)	1.532	5	1.224	4	2.756	9
Aged (≥65 years)	752	2	303	1	449	3
Total	19.464	58	14.422	42	33.886	100

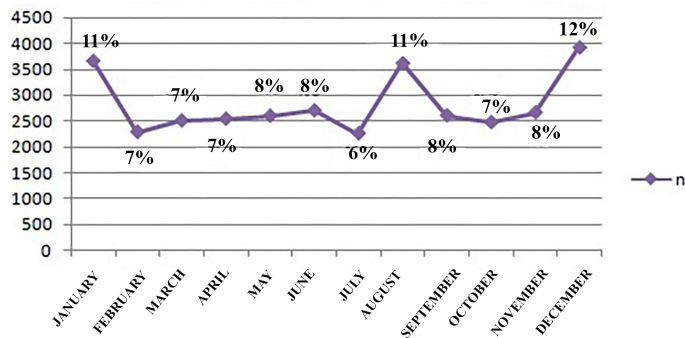
When the types of social security that the patients had were examined, it was seen that 59% (19,786) of them were under the coverage of SSI (Social Security Institution: SSK) and the majority of the SSI members were male. Only 8% (n=2,921) of the refugees who came to our country after fleeing the civil war in Syria had "Temporary Protection" social security. However, 'General Health Insurance' was provided to only 3% of the poor citizens of Republic of Turkey who had not any income (**Table 2**).

Table 2. Distribution of the patients according to types of social security coverage

Social Security	Male		Female		Total	
	n	%	n	%	n	%
SSI ¹	12.087	36	7.699	23	19.786	59
BAĞKUR ²	2.214	7	1.736	5	3.950	12
Retirement Fund	1.712	5	2.140	6	3.852	11
Temporary Protection Insurance	1.785	5	1.136	3	2.921	8
International Insurance	672	2	624	2	1.296	4
Private Insurance	545	2	501	1	1.046	3
General Health Insurance	449	1	586	2	1.035	3
Total	19.464	58	14.422	42	33.886	100

¹SSI: Social Insurance Institution²BAĞKUR: Social security organization for artisans and the self-employed

When we examine the patients according to triage coding and diseases, it is seen more than half of the patients (56%) who applied received the Green Triage Code. It has been determined that the vast majority (13.070) of the patients who received Green Triage Code had upper respiratory tract infections (**Table 3**). It was observed that 95.42% of the patients were discharged after being examined and treated in the emergency service. When we examine the patients who applied to the Private Hospital Emergency Department according to the month of their applications; the patients mostly applied in December (12%) followed by January (11%) and August (11%). The least number of applications were seen in July, with a rate of 6 percent (**Figure 1**). The patients mostly applied on Sunday (25%) followed by Saturday (19%). It was determined that the least number of applications occurred in the middle of the week (Wednesday and Thursday with 10% each) (**Figure 2**). When the application time is evaluated, it is seen that the highest number of applications (30%) were made during the nightshift between 8:00 PM and midnight which is called the "prime-time". It was determined that the least number of applications (7%) were made from 04:00 am to the start of the working hours (**Figure 3**).

DISTRIBUTION OF THE PATIENTS' ADMISSIONS ACCORDING TO MONTHS OF THE YEAR**Figure 1.** Distribution of the patients' admissions according to months of the year.**Table 3.** Number of patients according to triage codes, and disease groups.

	Male	Female	Total
Red Triage Code			
Allergy, Angioneurotic Edema	2	4	6
Cardiopulmonary Arrest	69	53	122
Pulmonary Infection	116	133	249
Surgical Abdominal Pain	14	12	26
Extremity Embolism	26	14	40
Gastrointestinal Bleeding	8	6	14
Intoxication	94	164	258
Bleeding Diathesis	4	2	6
Heart Diseases	259	199	458
COPD*, Bronchial Asthma	5	3	8
Seizures	161	140	301
Pulmonary Embolism	9	7	16
Central Nervous System Infections	12	14	26
Sepsis	21	30	51
Cerebrovascular Diseases	92	95	187
Trauma	86	45	131
Burns	29	38	67
Total Number of Patients with Red Triage Code	1.007 (%3)	959 (%3)	1.966 (%6)
Yellow Triage Code			
Allergy	248	254	502
Pulmonary Infection	787	802	1.589
Renal Failure, Electrolyte Disorder	51	34	85
Electrocution	32	9	41
Epistaxis	37	31	68
Facial Paralysis	94	74	168
Gastrointestinal Infection	414	516	930
Animal, Insect Bites	39	26	65
Hypo/Hyperglycemia	111	114	225
Heart Diseases	408	510	918
COPD*, Bronchial Asthma	297	161	458
Non-Surgical Abdominal Pain	1.115	770	1.885
Psychiatric Emergencies	335	409	744
Trauma	2.370	664	3.034
Urinary Infection	289	381	670
Urologic Emergencies	306	244	550
Vertigo	231	211	442
Foreign Body in Body Cavities	181	172	353
Burns	66	55	121
Total Number of Patients with Yellow Triage Code	7.411 (%22)	5.437 (%16)	12.848 (%38)
Green Triage Code			
Non-Specific Headache	217	297	514
Skin-Soft Tissue Infection	84	62	146
Dermatitis	136	105	241
Gastrointestinal Infection	1.354	556	1.910
Non-Traumatic Musculoskeletal Pain	387	338	725
Conjunctivitis	109	95	204
Upper Respiratory Tract Infections	7.298	5.772	13.070
Trauma	1.376	720	2.096
Burns	85	81	166
Total Number of Patients with Green Code	11.046 (%33)	8.026 (%23)	19.072 (%56)
Grand Total	19.464 (%58)	14.422 (%42)	33.886 (%100)

* COPDChronic Obstructive Pulmonary Disease

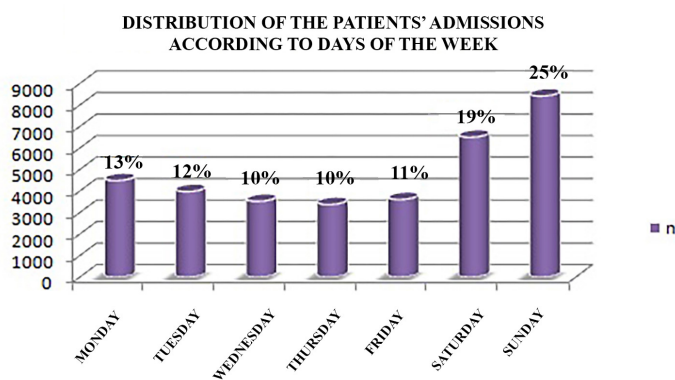


Figure 2. Distribution of the patients' admissions according to days of the week

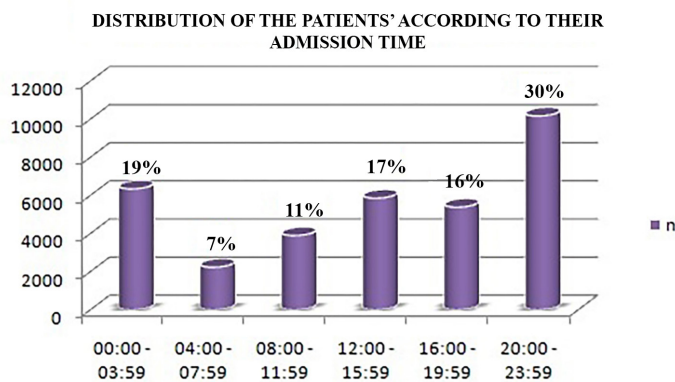


Figure 3. Distribution of the patients according to their admission times

DISCUSSION

Emergency Services are hospital departments that have to admit every patient that applied, have to make a fast and correct decision, can be accessible every day and every hour of the week, and has a wide range of patients.^[2] It has the characteristic of being the showcase of a hospital, as it is frequently said by the administrators, which mostly encounter people due to the long working time and high number of patient applications, and demonstrates the hospital's service quality and competence, examination and treatment efficiency.

However, emergency rooms (ERs) become crowded due to the increasing number of admissions to ERs in our country which naturally result in dissatisfaction of patients and staff.^[6] Emergency room patients rightly expect quality and priority health care service.^[1,2] Providing fast and accurate service at high quality can be achieved with a good planning of staff and equipment.

Descriptive studies on the demographic characteristics and diagnostic and treatment process of patients admitted to emergency services in our country are mostly carried out in tertiary healthcare institutions. In this study, the patients who applied to a private hospital emergency service, which has been serving for 25 years and operating in the central district

namely in the suburbs of our metropolitan city where the people with middle and lower socio-economic class live and work, were evaluated in terms of demographic characteristics, admission time and triage codes. This study is the first study conducted in our country using a private hospital's emergency service data.

In the study conducted by Çevik et al.^[7] in a state hospital, it was determined that 50.86% of the patients admitted to the emergency services were women and 49.14% of them were men. The majority of the admissions (37.89%) consisted of young adults (20-39 years old), and the authors stated that a greater number of these patients aged 20-24 and over 65 years compared to other age groups. In the study conducted by Kılıçarslan et al.^[8] at a university hospital, the investigators determined that 52.6% of the patients were male and the majority of the patients (37.89%) were young adults (20-39 years old). Besides, among them more frequently patients aged 20-24 and over 65 years of age were more numerous than the other age groups.

In the study conducted by Edirne et al.^[19] in a university hospital, the authors stated that 43.2% of the patients were male. In the study conducted by Köse et al.^[3] in a state hospital, the investigators found that 54.8% of applications were made by male patients, and the most (77%) of them aged 17-65 years. While Türkdoğan et al.^[10] determined that most frequently (55.2%) female patients had applied to the emergency services. Aydın et al.^[2] observed that the ER applications were more frequently (51.53%) made by male patients. In the study conducted by Polat et al.^[11] the authors stated that 25% of emergency room admissions in our country consisted of patients in the pediatric age group.

In this study, when the patients who applied to the emergency service were evaluated according to their gender, admissions consisted of 58% male and 42% female patients without any significant difference between both genders ($p > 0.05$) (Table 1). When the patients are examined in terms of age periods, it is seen that the least admission is in infancy with 43%. The least number of applicants are adolescents followed by the elderly patient group. As can be seen in the literature, admissions to the emergency department in terms of age and gender vary according to the region where the hospital is located.

Over years, improvements and reforms have been made in the fields of health and social security in Turkey. The patients who did not have social security coverage and income were provided with social security firstly under the name of 'Green Card' and then the scope of the social security coverage was expanded under the 'General Health Insurance'.^[12] Health insurance has been provided for asylum seekers who came to our country after fleeing from the civil war in Syria, and the "Directive on Principles Regarding Health Services to be Provided to Temporary Protection" was published by the Ministry of Health in 2015. With this directive, a social security umbrella called "Temporary Protection" was created for refugees.^[13]

In the study conducted by Çevik et al.^[7] in a state hospital, the patients who applied to the emergency services were examined according to their types of social security coverage they received and found that the respective percentages of patients had benefited from the Retirement Fund (42.6%), SSK (38.59%), Bağ-Kur (12.28%), Green Card (1.65%), while 3.12% of the patients were not under any social security coverage. In the study conducted by Köse et al.^[3] in a state hospital, 64.4% of the patients who applied to the emergency services were green card holders, and the other patients were affiliated to the Social Insurance Institution (SSK) (20.5%), to the Social Security Institution (SGK) (4.5%), Bağ-Kur (4.4%), to the Retirement Fund (2.1%), and others 3.6%.

In the study conducted by Tanrikulu et al.^[1] in a training and research hospital, the authors stated that most (56.2%) of their patients were affiliated to SSK followed by green card holders (25.6%). While 1% patients paid their health expenses by themselves. The patients whose social security coverage is defined as "forensic" due to forensic cases such as traffic accidents, assaults, injuries and whose health insurance cannot be determined exactly constituted 3% of the admissions.

In our study most of the patients (59%: n=19.786) were members of SII (SSK) and the majority of the SII members were male. Only 8% (n=2.921) of the patients had "Temporary Protection" social security, which covers refugees who came to our country after fleeing the civil war in Syria. However, only 3% of the patients who were the citizens of the Republic of Turkey and without any income were provided with 'General Health Insurance' (**Table 2**).

When the literature and our study are examined, it is seen that the rates of social security types differ according to the type of health care institute such as a university, education and research hospital, state and private hospital, as well as the socio-economic level of the region where the patient is living.

Although the increasing number of admissions to emergency services is a worldwide problem, this problem has almost reached the level of disaster in our country. Due to the fact that emergency services are free of charge, examinations are performed rapidly without waiting, admission of non-urgent cases to the emergency services, the growing volume of patients cannot be intervened in time, which results in dissatisfaction with physicians and patients/relatives and consequently violence against health care professionals. In this case, the method to distinguish between emergency and non-emergency patients and how to determine the priority of patients for treatment becomes important. Triage scales are used to distinguish between emergency and non-emergency patients. Using triage methods, the waiting period of the patient without treatment is determined, and if the condition of the patient is very urgent, he/she is immediately intervened, and the patient's loss of life is prevented.

In our country, the 'Communiqué on the Application Procedures and Principles of Emergency Service Services in Inpatient Health Facilities' published in the Official Gazette with the number 27378 on October 16, 2019, published by the Ministry of Health, is included in the Annex-7 mentioned in the 'Color Coding and Triage Application' section in Article 8. Patients were classified in yellow, green, and red areas. Thanks to this triage coding, optimization of the diagnosis and treatment process of the patients is ensured.^[2,14] In the study of Çevik et al. performed in a state hospital, in terms of priority status (triage) of emergency applications; the authors stated that the patients had Stable Conditions (24.34%: green area), Serious Conditions (75.20%: yellow area) and Emergencies requiring Urgent Interventions (0.47%: red area). In addition, when patients who did and did not require emergency medical or surgical intervention were compared according to their diagnoses; they stated that ENT and eye-related disorders in non-urgent patients, and disorders related to the musculoskeletal system in emergencies were significantly higher, indicating that emergency services were used unnecessarily under these circumstances.^[7]

In the study conducted by Köse et al.^[3] in a state hospital, 88.4% of the patients were discharged from the emergency service on an ambulatory basis, and when the rates of hospitalization, referrals, deaths and outpatient discharges were examined, and the inappropriate applications were at a higher rate. According to these authors the most important reasons for inappropriately higher admission rates to the ERs include the socioeconomic and cultural status of the region as well as the low level of education, being able to receive treatment immediately in the ERs without paying contribution fees for examinations and medications received, and not benefiting from primary health care centers.

In the study conducted by Türkdoğan et al.^[10] in a state hospital, only 5.5% of the study patients were in the Red Triage category, while 41.4% of them received the Green Triage code. In addition, 95.9% of the patients were discharged after diagnosis and treatment made in the emergency department.

In the study conducted by Kılıçaslan et al. in a university hospital, 10.42% of the patients who applied to the emergency department were in the very urgent patient group called Triage 1, 42.34% were in the Triage 2 (Emergency) group, and nearly half of the patients (47.24%) were in the 'non-emergency' group called Triage 3.

In the study conducted by Edirne et al.^[9] in a university hospital, 19.5% of the patients who applied to the Emergency Service were treated on an outpatient basis, and in this case, approximately one out of every five patients who applied to the emergency service did not meet the emergency patient criteria.

In the study conducted by Tanrikulu et al.^[1] in a training and research hospital, 94.8% of the patients were discharged on an outpatient basis after examination and treatment, and the authors also indicated higher rates of inappropriate use of emergency services.

The ER of the private hospital where this study was conducted provides second-line emergency care and the triage classification is made by trained nurses, emergency medical technicians. When we examine the patients according to triage coding and diseases, it is seen that more than half of the patients (56%) who were admitted received the Green Triage Code. It has been determined that the vast majority (13.070) of the diseases in the Green Triage Code areas are upper respiratory tract infections (**Table 3**). In addition, 95.42% of the patients were found to be treated in the emergency service and discharged at similar rates to the emergency service literature data of our country, which demonstrates that improper use of ERs is at a high rate. Whether it is a training and research hospital, a state hospital or a private hospital, unfortunately, patients apply to the emergency service for social and cultural reasons and refrain from waiting in polyclinics, leaving their jobs during polyclinic working hours, and paying contribution fees.

In the study conducted by Kılıçaslan et al.^[8] the authors found that the most frequently applications were made on Monday (15.68%), and the least number of applications occurred on Wednesday (13.53%). When they examined the application hours, they stated that the most applications were made between 07:00 PM and 11:00 PM during night shift, then between 11:00, and 12:00 AM during the day shift, and the least number of applications were made between 6:00 and 7:00 AM in the morning. They found that while the number of admissions decreased gradually, especially after midnight, a significant decrease was detected between 01:00 AM and 07:00 AM and patients applying after 02:00 AM were in the very urgent category.

In the study conducted by Türkdoğan et al.^[10] the authors found that the most frequently applications to the emergency department were made on Monday and the least on Thursday, and that applications increased in September, November, December and January, and decreased in April, May and June.

In the study conducted by Tanrikulu et al.^[1] the researchers stated that the patient admission rates were 45.1% between 08:00 AM and 05:00 PM, and 44.9% between 05:00 PM and midnight, and the least number of admissions were made between midnight and 08:00 AM (10%). They also found that the highest number of applications were made in December, while the minimum number of applications in April, while the number of applications increased as the winter season approached, and decreased in the summer months.

Patients mostly apply to the Private Hospital Emergency Service where this study was conducted in December (12%) followed by January (11%) and August (11%). The least number of admissions were seen in July, with a rate of 6% (**Figure 1**). The patients applied mostly on Sunday (25%) followed by Saturday (19%). It was determined that the least number of admissions were made in the middle of the

week (Wednesday and Thursday with 10% each) (**Figure 2**). When the time of admissions was evaluated, it was seen that the highest number of applications (30%) were made in the working shift hours between 08:00 PM and midnight which is called the prime time.

The least number of applications (7%) were made from 04:00 AM to the start of working hours (**Figure 3**). The data of this study are compatible with the data of our country. It is seen that patient applications are increasing in and towards the winter months. We think that this is due to the fact that the people of the region, who went to their hometowns or holiday destinations in the summer, return towards the winter months, and also the epidemic of viral diseases with the cooling of the weather, and the increase in trauma due to rainfall. When the days of the week were examined, the highest number of applications occurred on Sunday followed by Saturday when the polyclinics are closed after noon, because the staff works part time in private hospitals. When the hours of admission are examined, we see that the most applications were made between 08:00 PM and 01:00 AM which is called the "prime time", in accordance with other studies in our country. We think that this is due to the fact that the local people working during the daytime come to the hospital during their rest periods.

CONCLUSION

The greater number of non-urgent patients in private hospital emergency services as well as in universities, training and research hospitals and state hospitals in our country shows that the problem of inappropriate use of emergency services in our country is increasing in all kinds of hospital emergency services. It is obvious that admission demographic data of the patients applied to emergency services is related to the socio-economic and cultural structure of the people in the region, therefore, emergency room managers and planners should try to get to know and evaluate the local community better.

In the winter months when the patient density is high, it is seen that additional physicians, health personnel, equipment are required at the weekend and between 8:00 PM and 12:00 PM. It is necessary to make adjustments to increase the staff working shifts during prime-time hours and days when the greater number of patients apply, and to decrease the number of shifts from 00:00 to 08 AM when patient admissions are at the lowest level. With a good staff, physical structure and equipment plan, satisfaction of both patient/patient relatives and staff will be provided.

Limitations: Our study is based on limited data because our study is single-centered and study population is living in the suburbs of a metropolitan city of our country. We believe that it would be appropriate to conduct a study with wider participation of people with different social classes and in different socio-economic regions.

ETHICAL DECLARATIONS

Ethics Committee Approval: Ethics committee approval was taken from the Clinical Research Ethic Committee of Sultangazi Haseki Research and Education Hospital.

Informed Consent: All patients signed the free and informed consent form.

Referee Evaluation Process: Externally peer-reviewed.

Conflict of Interest Statement: The authors have no conflicts of interest to declare.

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Author Contributions: All of the authors declare that they have all participated in the design, execution, and analysis of the paper, and that they have approved the final version.

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