BRIEF COMMUNICATION

PATIENT SATISFACTION IN A UNIVERSITY HOSPITAL EMERGENCY DEPARTMENT IN TURKEY

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Summary: Objective: Patient satisfaction, an indicator of the quality of care provided by emergency department (ED) personnel, is a significant issue for EDs. The purpose of this study was to identify factors associated with patient satisfaction and dissatisfaction, and to describe demographic characteristics of those surveyed in a university hospital ED. Methods: All adult patients who consecutively presented to the ED between 8:00 a.m. and 5:00 p.m. on weekdays were included in the study. Patients were asked to complete a questionnaire prior to discharge. The questionnaire asked about the attitude, politeness, and efficiency of the medical and ancillary staff, the reason for preferring our centre and reasons for dissatisfaction. Results: Two-hundred and forty-five adult patients presenting to our ED were included in this study. Forty-five percent of patients preferred our ED because of the previous perception of higher quality of care, informed by other people previously treated in this ED unit, and 35% because of restrictions by their health insurance carrier. The main causes of patient dissatisfaction were lengthy waiting times (27%). Conclusion: As a result, lengthy waiting time was the major reason for patient dissatisfaction, and high quality care together with insurance restrictions were the main reasons for preference of this university hospital ED.

Key words: Emergency Department; Patient Satisfaction; Dissatisfaction

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Introduction

Patient satisfaction (PS), as measured by a variety of methods, is an important measure of the quality of service provided in emergency departments. PS may be defined as 'a personal evaluation of health care services and providers' (17). Patients' satisfaction with their emergency department (ED) visit is an important factor for determining the choice for future ED care or for recommending the ED to other potential patients (21).

In modern societies, the quality of medical care plays an important role in building up patients' positive perception and satisfaction (18). PS is strongly associated with patient perceptions of ED waiting intervals. Other factors that affect PS are cleanliness, cost-effectiveness, education level, and co-operation by the personnel (6,11).

The purpose of this study was to identify the rate of and the factors associated with patient dissatisfaction, to describe demographic characteristics of those surveyed in a university hospital ED, and the relation between patient dissatisfaction and demographic data in our tertiary-care university hospital.

Methods

This clinical study was carried out between January 1 and June 31, 2001 in our tertiary-care university hospital ED. The ED of our 350-bed hospital has 27 patient care spaces and an annual census of about 20,000. The hospital is one of 4 large hospitals providing medical care to the city's 700,000 people, as well as to the more than two million people in surrounding provinces.

All adult patients who consecutively presented to the ED between 8:00 a.m. and 5:00 p.m. on weekdays (holidays excluded), and stayed in the ED for more than 24 hours, were included in the study. Patients with acute dyspnea, shock, alterations in consciousness, intoxication, suicidal or homicidal ideation, psychiatric disorders, dementia, alcohol and/or drug abuse, those who were consulted to other departments and those who did not speak Turkish were not included to the study.

Prior to discharge, patients were asked by a nurse to complete a questionnaire, and data were collected together with demographic characteristics (age, sex, education level, marital status, occupation, insurance type). The question-

naire asked about the attitude, politeness, and efficiency of the medical and ancillary staff, the reason for preferring our centre and reasons for dissatisfaction. They were also asked whether they would prefer receiving care in our ED again and how likely they would be to recommend our ED to others for emergency care. These questions were adapted by Elder R et al. and Goodacre SW et al. (7,8). The questionaire was included 18 questions such as, staff attitude (Doctors, nurses, secretary etc.), sent back as untreated, bureaucratic procedures and paperwork, Quality of medical care, lengthy waiting times, waiting for consultants, lack of proper equipment and billing etc. The questionaire was used while the patients discharged.

The data were analysed using the SPSS 11.0 for Windows (SPSS Inc, Chicago). Pearson Chi-square test was performed to evaluate the significance of demographic data and dissatisfaction causes on dissatisfaction rate. A p value of less than 0.05 was considered statistically significant.

Results

A total of 245 patients were included to the study. The median age was 38.8±17.7 years (range, 17-81). Most pa-

tients had some kind of insurance (government HMO insurance, government full-coverage insurance, aid for the poor, etc.). Only 10% of patients had no insurance at all.

Demographic data were not found to be statistically significant in relation to dissatisfaction rate (Tab. 1). Of the 245 patients, 139 (56.7%) patients voiced dissatisfaction. Among the causes of patient dissatisfaction, lengthy waiting times, lengthy procedure times, staff attitude, and billing were statistically significant (P<0.005), of which lengthy waiting times and staff attitude were the leading causes (Tab. 2).

One hundred and ninety-six patients (80%) mentioned that the ED staff answered their questions satisfactorily. Only 74% of patients declared that consent was requested before medical procedures. When patients were asked how or why procedures were done without their consent, 27 (43%) patients believed that the doctors were performing absolutely necessary procedures, 22 (35%) patients did not approve of this 'consent-less' procedure, and the remaining were undecided. Most patients (83%) felt listened to and understood by the doctors.

The reasons patients preferred to receive care in our health centre are shown in Tab. 3. The most common rea-

Tab. 1: Demographic data and dissatisfaction rate.

	Satisfied n (%)	Dissatisfied n (%)	P*
Sex			
Male (n=130, 53.1%)	52 (49.1%)	78 (56.1%)	V ² -1 202 DS 0.05
Female (n=115, 46.9%)	54 (50.9 %)	61 (43.9%)	$X^2=1.203$, P> 0.05
Occupation			
Employment (n=126, 1.4 %)	51 (48.1%)	75 (54.0%)	X ² =0.822, P>0.05
Unemployment (n=119, 48.6%)	55 (51.9 %)	64 (46.0 %)	
Education			
Uneducated (n=30, 12.3 %)	11 (10.4 %)	19 (13.8 %)	
Only write and read (n=25, 10.2%)	11 (10.4%)	14 (10.1 %)	
Primary School (n=64, 26.2%)	27 (25.4%)	37 (26.8 %)	X ² =1.997, P>0.0.5
Elementary School (n=35, 14.3%)	18 (17.0%)	17 (12.3 %)	
High School (n=43, 17.6%	17 (16.0%)	26 (18.8 %)	
University (n=48, 19.5%)	23 (20.8%)	25 (18.1 %)	

^{*}Pearson chi-square

Tab. 2: Causes of patient dissatisfaction.

Cause	n (%)	X^2	P*
Staff attitude (Doctors, nurses, secretary etc.)	31 (22.3)	26.618	P<0.005
Sent back as untreated	3 (2.1)	2.278	P>0.005
Bureaucratic procedures and paperwork	24 (17.2)	17.165	P<0.005
Quality of medical care	4 (2.9)	3.050	P>0.005
Lengthy waiting times	37 (26.6)	32.686	P<0.005
Waiting for consultants	17 (12.3)	6.901	P>0.005
Lack of proper equipment	9 (6.4)	7.007	P>0.005
Billing	14 (10.2)	11.136	P<0.005
Total	139 (100)		

^{*}Pearson chi-square

son cited was the perceived high quality of service in our centre (Tab. 3).

Tab. 3: Reasons for preferring our health centre for emergency care.

Reason	n	%
Ease of accessibility	25	9.4
High-quality service	120	45.3
Low cost	9	3.5
Restrictions by insurance carrier	92	34.7
Other*	19	7.1
Total	265	100

^{*} E.g. close to place of employment, transported by ambulance to our hospital, specific therapy available only in our hospital

Discussion

Collecting data about patient satisfaction is an important component of any initiative to create a high-quality service culture. Although monitoring patient satisfaction with the aim of increasing service quality is a seemingly recent phenomenon, the medical literature on this issue dates back to the time of ancient Rome (15,16).

Patient satisfaction, in addition to effective and rapid treatment, should be one of the key goals of emergency department care. Satisfaction ratings are related more to psychosocial aspects of care like communication, personal preferences, and cultural aspects, whereas pain scales reflect the more technical aspects of care (1). Patient perceptions of the technical quality of care are more important than perceived timeliness of care or bedside manner in determining patient satisfaction with ED care. With the increasing customer focus on health, greater attention needs to be given to system failures (10).

Studies were performed for improvements to the ED departments and effects on patients' perceptions of the quality of care. The most dramatic improvement in a patient satisfaction survey came in ratings of skill of the emergency physician, likelihood of returning, skill of the emergency department nurse, and overall satisfaction (15,16).

Differences between populations and processes within study EDs may account for variable findings between studies. Expressing data as complaint frequencies allows comparison of trends in a department, among staff members, and between different EDs with varied patient populations. The most common patient complaints in other reports have been misdiagnosis, nursing staff, and the lack of communication with the patients (19).

Recognising the need to understand and accommodate customer expectations, improving customer satisfaction is an integral part of quality assessment and improvement programs (15,16). Maximising patient satisfaction is important not only because of the well-documented finding that satisfied patients are more likely to adhere to their

treatment regimens, but also because of its marketing and financial implications (3).

According to Kelly et al. (12), satisfaction ratings do not reflect real events as much as they do patients' expectations and perceptions of their experience. The patient's expectations may reflect their lack of medical knowledge. The most important variables related to overall ED satisfaction were: waiting time before being examined in the ED, nursing care, physicians' concern, how organised the staff was, and specific medical information provided by physician and nursing staff (4,13).

Waiting occurs at multiple points during the course of an ED experience. Patients wait to be triaged, wait to see a physician, wait for laboratory and/or X-ray results, wait for test interpretation, and wait for consultants, or to be discharged or admitted (2). Prolonged waiting time was the reason for 33% of the complaints lodged against the ED of the King's College Hospital., and for 60% of the patients leaving the Toronto Hospital ED without being seen by a physician. Long waiting times are also the main reason for walking out in the literature. Shortening waiting time may improve ED satisfaction for about 75% of patients (13). Other common reasons for dissatisfaction are staff attitude, quality of medical care, billing and misdiagnosis (1,5,9,14,20). In our series, the patients and their families also complained of waiting time (27%). However efforts to improve ED patient satisfaction should focus primarily on improving patients' perceptions that wait intervals are appropriate, and secondarily on shortening the wait intervals (11). Most patients' families may be prepared to wait the advertised waiting time before leaving dissatisfied.

In conclusion, long waiting times was found to be the major factor of patient dissatisfaction in this study, similar to previous reports. Before a reevaluation of patient satisfaction is done, interventions aimed at decreasing waiting times, and improving patient-physician communication and the informed consent process should be performed.

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