Assessment levels of the user's satisfaction in a private hospital*

ANÁLISE DA SATISFAÇÃO DOS USUÁRIOS DE UM HOSPITAL PRIVADO

ANÁLISIS DE SATISFACCIÓN DE LOS USUARIOS DE UN HOSPITAL PRIVADO

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ABSTRACT

The objective of this study was to analyze the satisfaction of the users of a private hospital in terms of a number of attributes of the services in units. This exploratory, descriptive study used a quantitative approach and was developed in a private hospital in the city of São Paulo. The casuistry consisted of 71 users and data collection was performed during the period from March to August 2007, using a derivative of the scale model of the Service Quality (SERVQUAL) of the evaluative model of Parasuraman et al. The level of overall satisfaction ranged around 95%. The assurance (96%) and reliability (96%) were considered the most important dimensions of quality, followed by empathy (95%), responsiveness (93%) and tangibility (88%). Medical and nursing staffs introduced high levels of satisfaction. 91% has intention to recommend the hospital. This research provided the knowledge of the attributes most important in terms of satisfaction and contributed to confirming or reshaping assistance and management processes.

KEY WORDS

Quality of health care. Health services evaluation. Consumer satisfaction. Patient satisfaction.

RESUMO

Trata-se de um estudo exploratório-descritivo de abordagem quantitativa, cujo objetivo foi analisar a satisfação dos usuários referente aos serviços prestados em unidades de internação. O local da investigação foi um hospital privado do Município de São Paulo, e a amostra constituiu-se de 71 usuários. A coleta de dados ocorreu de março a agosto de 2007, por meio de um instrumento derivado da escala Service Quality do modelo avaliativo de Parasuraman et al. O nível de satisfação geral oscilou em torno de 95%, sendo garantia (96%) e confiabilidade (96%) as dimensões de maior relevância, seguidas da empatia (95%), responsividade (93%) e tangibilidade (88%). As equipes médica e de enfermagem apresentaram maiores níveis de satisfação, e 91% dos usuários demonstraram intenção de indicar o hospital. Esta pesquisa permitiu conhecer os atributos intervenientes na satisfação dos usuários da referida instituição, contribuindo para confirmar ou reformular os processos assistenciais e gerenciais.

DESCRITORES

Qualidade da assistência à saúde. Avaliação de serviços de saúde. Satisfação dos consumidores. Satisfação do paciente.

RESUMEN

Se trata de un estudio exploratorio descriptivo, de abordaje cuantitativo, cuyo objetivo fue analizar la satisfacción de los usuarios respecto de los servicios prestados en unidades de internación. El trabajo se localizó en un hospital privado del Municipio de São Paulo, Brasil, y la muestra consistió en 71 usuarios. La recopilación de datos se realizó entre marzo y agosto de 2007, a través de un instrumento derivado de la escala Service Quality del modelo evaluativo de Parasuraman et al. El nivel de satisfacción general osciló en torno al 95%, resultando garantía (96%) y confiabilidad (96%) las dimensiones de mayor relevancia, seguidas de empatía (95%), responsividad (93%) y tangibilidad (88%). Los equipos médicos y de enfermería presentaron mayores niveles de satisfacción, y el 91% de los usuarios manifestaron intenciones de recomendar al hospital. Esta investigación permitió conocer los atributos que hacen a la satisfacción de los usuarios de la referida institución, contribuyendo para confirmar los procesos asistenciales y gerenciales.

DESCRIPTORES

Calidad de la atención de salud. Evaluación de servicios de salud. Satisfacción de los consumidores. Satisfacción del paciente.

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INTRODUCTION

When assessing the quality of health services, both private and public, controversies are raised regarding the most appropriate ways to measure users' satisfaction levels, taking into account their perception regarding service delivery and the impact these satisfaction attributes generate.

In the users' point of view, satisfaction occurs when their needs and expectations are met in a way that their perceptions are positive and the expected results are achieved. Under this scope, measuring such perceptions has become a subject of study. However, there has been neither consensus nor uniformity in assessment proposals.

For this reason, a need for the development of users' satisfaction assessment systems in the health sector is imperative and can represent an important tool for the improvement of management strategies for the sector.

It is understood that, through the implementation of these assessment systems, users will perceive the value of the services being delivered. This interaction is individual, although the same techniques are used; individual responses both on the execution and the receiving of the service are different. Therefore, quality can be understood as the user's level of satisfaction regarding any type of service. It can be defined, above all, as what users perceive (1), and for the service provider, as technical and functional quality (2). Technical quality is defined according to the

curacy in performing the techniques, procedures and diagnosis and functional quality regarding the way a service is provided to the user.

Assessing a service is more complex than assessing a product. A product is tangible, and users can detect defects, check functioning, compare durability, and verify quality according to the manufacturer's specifications, whilst a service is firstly compared, and then simultaneously produced and consumed. Possible defects are experienced and perceived, a fact that characterizes its inseparability (production—consumption). This inseparability enhances the importance of the relationship between service providers and users, and also the variation in the quality of the service provided. Another feature of service is its short duration, meaning that it can neither be stored nor put into inventory.

Services are also intangible. They are judged by their performance, the experiences lived by those who use them. At the same time they are heterogeneous and can be differently judged and performed according to service providers and users⁽³⁾. In this way, the relationship between users' expectations and perceptions are related as follows: when expectations are lower than perceptions, good quality is perceived; when expectations are equal to perceptions, the quality perceived is acceptable; when expectations are higher than perceptions, poor quality is perceived⁽⁴⁾.

Figure 1 illustrates the assessment model, explaining service quality gaps.

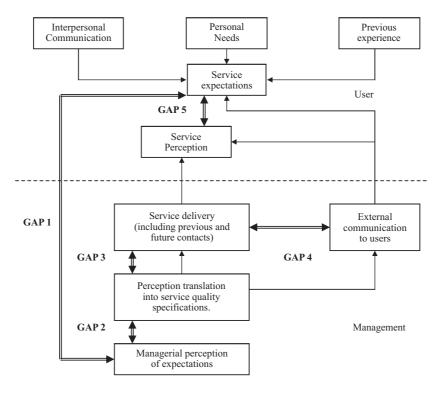


Figure 1 - Services Quality GAP Model Source: Zeithaml V, Parasuraman A, Berry LL, 1990



In Figure 1, five corporation gaps that are normally found between users' expectations and perceptions are observed. They are the following: 1 - not acknowledging what users expect to receive; 2 - not selecting the correct service project and standards; 3 - not providing the standard service; 4 - not matching performance and promises; and 5 - established according to the four previous gaps⁽⁵⁾.

With a view to understanding how users perceived and assessed service quality, the authors⁽⁵⁾ created twelve focus groups, with three groups in each one of the four different services investigated (retail bank, credit card, stock

broker, and maintenance and repair). Results obtained with these focus groups confirm that users are influenced by the dimensions of the process and not only by the service quality assessment results. The pattern of answers obtained revealed ten general assessment criteria implemented by users, disregarding the type of service investigated.

After the statistics analysis to determine interrelationships concerning these dimensions, three remained unaltered: tangibility, reliability and responsiveness ⁽⁶⁾. The seven remaining criteria were inserted into two other dimensions: guarantee and empathy⁽⁷⁾, as shown in the following chart:

Chart 1 - Original model and refined model of the five assessment dimensions of Parasuraman et al.

Original Model	Refined Model	Description
Tangibility	Tangibility	Physical aspects of what is provided to users.
Reliability	Reliability	The ability to accurately accomplish what was promised.
Responsiveness	Responsiveness	Ability to help users and promptly provide the service, capturing the notion of flexibility and the ability to adjust the service to the users' needs.
Competence Courtesy Credibility Safety	Guarantee	Competence and courtesy extended to users and the safety provided through operations.
Access Communication Understanding the user	Empathy	Individual attention provided to users.

Source; Marshall G, Murdoch L, 2001

Hence, Parasuraman, Zeithaml and Berry elaborated a psychometric scale of quality dimensions called *Service Quality (SERVQUAL)*, the first attempt to put the technique in practice to construct users' satisfaction. The *SERVQUAL* scale consisted of two actions with 22 affirmations regarding users' expectations, and 22 regarding perceptions. Therefore, they should score expectations and perceptions of the service provided in each one of the dimensions considered as the most important, as well as their attributes⁽⁴⁻⁵⁾.

In Brazil, the instrument developed and validated for health services⁽⁸⁾ presents attributes that allow for users to assess the different dimensions of the service. They are based on the five resulting dimensions from the studies⁽⁵⁾, according to the *SERVQUAL* scale model.

In face of these considerations, this study was developed using the theoretical reference mentioned. We believe that this theoretical reference will add value in determining the users' satisfaction in the health care theme.

OBJECTIVE

Analyze users' satisfaction regarding a compound of service attributes provided in hospital units and medical and surgery clinics of a private hospital.

METHOD

This is an exploratory-descriptive study using a quantitative approach, with prospective data collection.

The study was carried out in the Adventist Hospital of São Paulo (HASP). This private health institution is located in the neighborhood of *Liberdade* and has been providing services for more than 60 years to insured or private users living in the City of *São Paulo* and from the interior of the State, in addition to those from other states in the country.

Casuistry/sample was statistically calculated. Seventy-one users of the HASP surgery and medical clinics composed the sample. Inclusion criteria were: literate individuals, older than 18 years of age, under favorable medical conditions and with hospital stay times of over 3 days in surgery clinics or medical clinics.

The research project was sent to the Research Ethics Committee of the Nursing School of USP (Protocol 599/2006) and to the Board of Directors of HASP. After the approval from these entities, data collection was initiated. At that time, participants were educated regarding the aim of this study and invited to participate in it. Hence, they received and signed two copies of a Free and Informed Con-



sent Form designed according to the recommendations of Resolution 196/96⁽⁹⁾, of the National Council of Health.

Data collection was carried out throughout the period of March to August of 2007, through an instrument called Assessment of the service provided by a private hospital from the users' point of view.

The data collection instrument is composed of two parts, where the first is composed of the identification of socio-demographic data and the second of measurable service attributes on a scale varying from 1 to 6, according to a questionnaire validated by a Brazilian author⁽⁸⁾, as mentioned above.

The researcher, with hospital discharges in hand, delivered questionnaires and agreed with the participants on when to collect them.

For data analysis, computer resources were used: Windows Excel® and Statistic Package for Social Sciences^{R (10)} version 15.0 system, both in the Windows XP environment. Variables were analyzed descriptively. For quantitative variables, the analysis was performed by observing minimum and maximum values and calculating averages, standard deviation and means. For qualitative variables, relative and absolute frequencies were calculated.

For statistical data analysis, Chi-Square and Exact⁽¹¹⁾ tests were used. In the single-varied analysis of correlations between constructions and satisfaction, the Pearson's correlation coefficient was employed. The multi-varied study used the multiple linear regression model. With a view to select the main constructions that were associated with satisfaction, the Stepwise selection process was used. The significant level used for the tests was 5%.

RESULTS AND DISCUSSION

The age bracket among the 71 participants varied between 25 and 99 years old, with the average being 68.2

years old and the mean 73.5 years old. Forty-one (57.7%) participants were females and 30 (42.3%) were males. The education level was registered as more than eleven years of school (66.2%). Forty-two (59.2%) medical clinics users and 29 (40.8%) from surgery clinics participated in this study. Sixty-eight (95.8%) users had some type of insurance and 3 (4.2%) were private users.

Assessment of hospital services is a process that requires useful information regarding quality and management, and also on users' expectations and needs. Transformations in these practices value new understandings through a more logical dialogue within the team and with users, as well as the opportunity for the exploration of new concepts, scientific study and larger political and idealistic responsibility from managers (12).

This study demonstrates elevated levels of trust in the institution, a necessary condition to drive users to return for the service.

Satisfaction levels for care delivery attributes, presented in Figure 2, regard: 1-4 the medical team (1 attention-interest, 2 manners, 3 performance, 4 guidelines - explanations); 5-12 the nursing team (5- attention-interest, 6 manners, 7 performance, 8 explanations – guidelines, 9 care delivery, 10 waiting time for answering patient calls for assistance, 11 daily general quality, 12 night general quality); 13-20 the nutrition service (13 nutritionist care delivery, 14 meal quality-flavor, 15 food appearance, 16 temperature, 17 quantity, 18 variety, 19 regularity, 20 kitchen staff attention); 21-28 the general attributes (21 comfortableness of room, 22 cleanliness, 23 bathroom facilities, 24 noise at night, 25 privacy, 26 treatment results, 27 guidelines for outpatient treatment, 28 guidelines for outpatient food intake), and 29 – 35 the initial service (29 information counter location, 30 waiting time, 31 courtesy, 32 quickness, 33 clear information, 34 general organization, 35 comfort of the facilities while waiting).

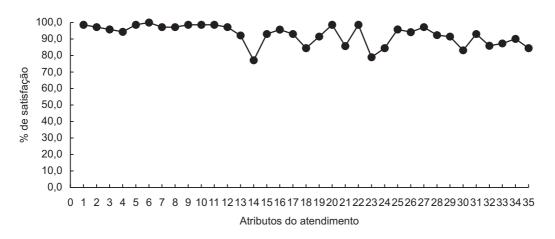


Figure 2 - Users' general satisfaction levels distribution according to service attributes, HASP - São Paulo - 2007



In Figure 2, the attributes that generated the most satisfaction, considering surgery and medical clinics, were 1 – attention –interest of the medical team, n=70 (98.6%); 5 – attention – interest of the nursing team, n=70 (98.6%); 6 – manners of the nursing team, n=71 (100%); 9 – care delivery service of the nursing team, n=68 (98.6%); 11 – nursing quality during the day, n=70 (98.6%); 20 – kitchen maid attention serving the meal, n=70 (98.6%), and 22 – room cleanliness, n=70 (98.6%).

The attributes that most highly impacted satisfaction were 14 – meal flavor—quality, n=54 (76.0%); 23 – bathroom facilities, n=56 (78.9%) and 30 – waiting time for the initial service, n=59 (83.1%). Attributes' total values that refer to the group of users from the medical and surgery clinics do not present significant variability among themselves.

The users' satisfaction levels suggest a positive association between satisfaction and the attributes from the medical team. The doctors' efforts in solving users' problems is associated with adherence and to the success of the treatment. Also, understanding medical information is considered important for the results of the treatment and for satisfaction purposes. The predominant dimensions were guarantee and empathy.

As for service attributes regarding the medical team, there was a variance between 92.4% and 100%. These results could relate to emotional and cognitive aspects in the doctor-user relationship (working alliance), to the elder user-doctor relationship, to the high levels of respect of users who are more familiar with some doctors, to the information provided by doctors, to the quality of the communication between doctors and users, to the trust in the professional, and to empathy⁽¹³⁾. Satisfaction is related to receiving attention, being provided with information and the interest demonstrated by the doctors in the users.

Regarding the attributes related to the nursing team (5 - 12), users demonstrate satisfaction in the service received. The predominant quality dimensions for these attributes are reliability and responsiveness. Users' satisfaction is a nursing care delivery measure that serves as a quality indicator of the care provided in hospitals⁽¹⁴⁾.

Also, users' satisfaction regarding the care received is considered to be only a functional quality measure of the care. The provided technical care quality is understood, generally, as difficult to assess by users. In this way, satisfaction is not a completely appropriate measure for quality of care, since the attribute involves a broad scope of factors. Nursing technical care quality is a difficult and complex concept to measure; however, studies demonstrate that, almost always, users express high levels of satisfaction with the care received⁽¹⁵⁾.

The continuous search for care quality with a view to achieving excellence is fundamental. It is a dynamic and exhausting process of continuously identifying the intervening factors in the nursing team work process. It requires the implementation of actions by the nurse and the elabo-

ration of instruments that will enable quality care levels assessment in a systematic way of the service provided⁽¹⁶⁾.

Countless factors contribute to achieving care quality, proving as necessary the actions of a multidisciplinary team, including nutrition and dietary services. The role of this hospital service has been, for many years, to produce meals, a task that does not require technological or scientific competence. This perspective helps in understanding current challenges for the effective delivery of nutritional care into nutrition services. Also, it enhances the separation between meal production services and dietary services, a service that is currently within doctors' and nutritionists' scopes of practice. This separation, based on the thinking that considers hospital food control as a support activity for users, justifies the low acknowledgement of its therapeutic function, in addition to the still predominant vision of such service as only producing meals⁽¹⁷⁾.

While staying in hospital, inadequate food intake is highlighted as a worsening trigger of the nutritional state of the user and is associated with an increase in morbidity and mortality rates and a lengthening of the average stay. Regarding users older than 65 years of age physiologic needs, the ability to taste food and digestion decrease and dietary conformity to doctor's orders must also be considered. This study demonstrated the need for interventions to improve dietary satisfaction levels, a fact that also highlights the value of the participation of the nutritional services in the user's therapy.

In addition, general attributes of the service were valued in regards to tangible and less subjective aspects of the users' perception. They were: comfort, safety, privacy during the hospital stay and outpatient treatment. The following figures affirm that users are satisfied regarding the following attributes: 22 – room cleanliness, n=71 (100%), 25 – privacy, n=68 (96%) and 27 – guidelines for outpatient treatment, n=66 (93%). Inversely, lower levels of satisfaction refer to 23 – bathroom facilities, n=56 (78.9%), 24 – noise level at night, n=60 (84.5%) and 28 - guidelines for food intake at home, n=65 (91.5%).

Guidelines regarding attribute 27 – treatment continuity- are strongly associated with high levels of satisfaction from users, suggesting that more effective guidelines for treatment continuity can enhance users' levels of satisfaction regarding this service. Results, when analyzed under this scope, indicate that users are satisfied with the guidelines received, with a discrete predominance in surgery clinics.

The area of infrastructure, characterized as performing an operational support function for the other areas, is not always noticed and valued, including by administration that does not provide investment and training. The compound of some sub-areas is responsible for aspects connected to hospitality, implicated with humanizing the service, comfort and the first relationship with users, visitors, suppliers and health professionals. The entrance door of a hospital is usually the emergency or clinics entrance. These locations are also used for invasive or non-invasive procedures



of higher complexity, humanizing the service, reducing costs, enhancing productivity, and engendering a good image of the hospital in the community $^{(18-19)}$.

Waiting time is one of the attributes considered by researchers to be a service dissatisfaction generator. Associations between waiting time and the speed of initial data input previous to the service and hospital stay were not observed, suggesting that other reasons can justify the delay of some users in being admitted to the hospital.

This study observed that the most relevant dimension was guarantee (95.9%), followed by reliability (95.7%), a fact that is justified since it regards a health institution. Users consider empathy as the third most relevant attribute (95%), followed by responsiveness (93%) and tangibility (88%). The lowest levels of satisfaction are related to tangible aspects of the service and they cannot be attributed to the quality of hospital care. The attributes of guarantee, reliability and responsiveness can be inferred to be the highest satisfaction generators.

Recommending the hospital to a relative-friend was classified as: I have doubts, and I would not recommend in 3 (4.2%) participants; I have doubts, but I would recommend in 3 (4.2%) participants; and Yes, I would recommend in 65 (91.5%) participants. Satisfied users tend to engage in favorable propaganda for the institution. Indicators such as *willing to recommend* and *recommend to others* are broadly-used measures to assess the global impact of users' satisfaction.

The trust users demonstrate in regards to the hospital was classified as moderate trust in 4 (5.6%) users, high trust in 16 (22.5%) users and total trust in 51 (71.8%) users.

This investigation demonstrated a 95.8% level of satisfaction for the hospital.

CONCLUSIONS

The instrument used in this study allowed for learning about users' levels of satisfaction in the surgery and medi-

cal clinics, and which attributes impacted general satisfaction. Female users were predominant; however, this difference showed no statistical significance. Users with elevated educational levels were predominant and they were associated with high levels of satisfaction. Older users demonstrated satisfaction with the service.

Considering the percentage referring to the number of users in each clinic, all attributes showed satisfaction regarding the services focusing on the medical and nursing team.

Users demonstrated satisfaction regarding general attributes; inversely, the lowest levels of satisfaction were attributed to bathroom facilities, noise levels at night and guidelines for out-patient nutrition. Also, waiting time is an attribute that is considered as a dissatisfaction generator for the service. No association between waiting time and quickness in filling out data before the service were observed, inferring that other aspects can justify the delay for some users to be admitted to the hospital.

High levels of satisfaction were achieved among users both in the medical clinic and the surgery clinic. Attributes of the service that require more attention from managers and the implementation of measures to improve users' satisfaction levels in these attributes were detected. Regarding the attributes guarantee, reliability, responsiveness and empathy, we can infer that users from the institution – this study's scenario- value these dimensions. They are more closely related to the performance of collaborators than to attributes that refer to responsiveness and tangibility. Tangibility presented the lowest levels of satisfaction.

Since tangible aspects of the service are easily measurable, these results enable concrete interventions that can be detected by users.

Consequently, this research allowed for learning about the service attributes that interfere in users' satisfaction in the HASP, contributing towards confirming or reformulating management and care processes.

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