Factors associated with patients’ and companions’ satisfaction with a hospital emergency department: A descriptive, cross-sectional study

Aurora Fontova-Almató1,2 | Rosa Suñer-Soler2,3 | Dolors Juvinyà-Canal2,3

Abstract
Aim: The aim was to study the level of satisfaction with an emergency department and to identify the factors associated with satisfaction.

Design: This research consisted of a descriptive, cross-sectional study.

Methods: The study population was composed of patients and companions who visited the emergency department during a three-month period. The patients were selected randomly from the register of visits to the emergency department during the period of study. Sociodemographic variables and variables related to the attention received were studied through questionnaires (response rate 33%).

Results: Older age was associated with greater satisfaction ($p = 0.002$), as was female sex ($p = 0.013$) and greater optimism ($p < 0.001$). Greater control of pain was a factor associated with satisfaction ($p = 0.033$), as was the perception of a shorter waiting time before the medical visit ($p < 0.001$).

KEYWORDS emergency department, emergency nursing, health promotion, patient satisfaction, quality of care

1 INTRODUCTION

Satisfaction with emergency departments affects overall satisfaction with hospitalization (Kardanmoghadam et al., 2015), and the evaluation of patient and companion satisfaction is a measurement of the quality of care in emergency departments (Danielsen et al., 2010; Granado de la Orden et al., 2011; Jennings, Lee, Chao, & Keating, 2009; Magaret, Clark, Warden, Magnusson, & Hedges, 2002; Soleimanpour et al., 2011; Welch, 2010).

Patient satisfaction refers to the subjective experience of the user of the health system (Boxer & Boxer Goldfarb, 2009). A satisfied patient better adheres to treatment, makes fewer malpractice complaints and is more willing to return to the service than otherwise (Boxer & Boxer Goldfarb, 2009). When a person goes to an emergency department, he or she is normally accompanied by a family member, friend or carer, who in many cases will give emotional support and will be able to give relevant information about the functional status of the patient (Ekwall, Gerdtz, & Manias, 2008; Nikki, Lepistö, & Paavilainen, 2012). Friends and family members play an important role in the care and well-being of the patient in the emergency department (Gordon, Sheppard, & Anaf, 2010), and the experience in the department affects companions’ perception of the quality of care (Cooke, Watt, Wertzler, & Quan, 2006; Ekwall et al., 2008; Parra Hidalgo, Calle Urra, Ramón Esparza, Peiró Moreno, & Meneu de Guillerna, 2012).

In a review of the literature about patient and companion satisfaction with emergency departments, where studies of patient characteristics and perceived waiting times particularly stand out,
older patients are found to be more satisfied than younger patients (Crow et al., 2002; Danielsen et al., 2010; Ekwall et al., 2008; Quintana et al., 2006; Welch, 2010) and the perceived waiting time is particularly important for user satisfaction (Boudreaux & O’Hea, 2004; Brown, Sandoval, Levinton, & Blackstien-Hirsch, 2005; Taylor & Benger, 2004). Information and communication in the emergency department were also determining factors in patient satisfaction (Boudreaux & O’Hea, 2004; Nairn, Whotton, Marshal, Roberts, & Swann, 2004), as well as pain, with an association being found between the easing of pain and satisfaction (Muntlin, Gunningberg, & Carlsson, 2006; Welch, 2010). Furthermore, some variables related to patient satisfaction with emergency departments, such as information and communication, perceived waiting time and older age, coincide with what is found in the case of companions (Ekwall et al., 2008; Ekwall, Gerdtz, & Manias, 2009; Kristensson & Ekwall, 2008; Magaret et al., 2002; Morales-Guijarro, Nogales-Cortés, & Pérez-Tirado, 2011; Pérez-Tirado, Hernández-Blanco, Nogales-Cortés, & Sánchez-Sánchez, 2010). Other factors, such as being able to accompany the patient or participate in his or her care, also have an influence on companions (Nairn et al., 2004; Soleimanpour et al., 2011). Based on the above, we can affirm that the satisfaction of patients and companions with emergency departments is a measure of quality of care and a factor that influences both the choice of the service by the user and adherence to the treatment prescribed. However, we were unaware of the profile of the most satisfied users and companions in our setting and so we proposed the following objectives:

- To study the level of satisfaction of patients and companions with an emergency department.
- To identify the factors associated with the satisfaction level of patients and companions with an emergency department.
- To determine the profile of the most satisfied users of the emergency department.

2 | METHODS

2.1 | Design

The research consisted of a descriptive, cross-sectional study of the satisfaction of patients and companions. The participants voluntarily accepted to participate in this study, which was conducted in the emergency department of a general hospital. The field was undertaken using questionnaires from October to December 2012.

2.2 | Study settings

This study was performed at a general hospital that attended 65,071 emergencies, a mean average of 178 visits per day.

The study population was composed of patients and companions who visited the emergency department of a general hospital from October to December 2012. The sampling technique was probabilistic, involving a random selection of patients from four tables of random numbers from the daily register of visits to the emergency department during the 3-month period.

2.3 | Participants

All patients over 18 years of age were included. Patients residing outside the Spanish territory were excluded from the study, as were those who left the service without being visited, those who needed only nursing care and hospital workers who were seen at the service. When a patient who was selected died during the medical event, a letter was sent to family members expressing condolences and explaining the aim of the study.

The sample size was calculated considering a 10-point difference with regard to the results obtained in the study of González et al. (2008); thus to obtain a power of 80% with a significance level of 0.05, 194 patients and companions would be needed, calculating response losses of 40%.

2.4 | Measures

A satisfaction questionnaire was sent by ordinary post to the selected patients. At the beginning of the questionnaire, there was an item to identify whether the person responding was a patient or a companion. When the questionnaire was completed together by both a patient and a companion, the answers were treated as though they were of the patient.

A letter was sent to the home address of all the patients selected within the 10 days following the visit; it contained an information sheet about the study, a letter of informed consent to be signed, the questionnaire and a pre-paid envelope to return the questionnaire to the hospital. One month after the first mailing, a reminder letter was sent to all those who had not yet replied to the questionnaire. Due to the low response rate, selected patients were contacted via telephone to determine if a third mailing would be necessary. All of those who agreed to reply were again sent a questionnaire with a pre-paid envelope.

The first variables studied were sociodemographic: age, sex, civil status, educational level and occupation. Questions on the following were asked: overall satisfaction with the visit to the emergency department (on a scale of 0–10, where 0 was the worst possible score and 10 the best possible score); pain (were you in pain when you visited the emergency department? with two possible responses: yes or no) and whether this pain was adequately controlled (answered via a Likert scale: no, not at all; slightly but not completely; quite a bit but not completely; or yes, completely); the waiting time to be seen for the first time by a nurse (in minutes); the perception of this time (answered via a Likert scale: very short, short, acceptable, long or very long); the waiting time to be seen by a doctor (in minutes); the perception of the waiting time for the medical visit (answered via a Likert scale: very short, short, acceptable, long or extremely long); information on the approximate waiting time (whether or not information was received); and whether or
not they would recommend the department to a family member or friend (yes or no). Additionally, the perceived level of optimism was studied (on a scale from 0–10, where 0 was the worst score possible and 10 the best).

To study the factors associated with satisfaction, the numerical global satisfaction variable was recoded into two categories: “less satisfied,” which included those users who gave a score of between 0–7 and “more satisfied,” which included those who gave a score of between 8–10 points. The pain control variable was also recoded as “pain controlled,” for those who had referred to their pain being sufficiently or completely controlled and “pain not controlled” for those referred to their pain having been little or not controlled.

The satisfaction questionnaire validated by González et al. (2005) was administered, with the authors’ previous consent. This questionnaire consists of 34 questions grouped into six dimensions: information and medical care, nursing care, comfort, visiting, privacy and cleanliness. Cronbach’s alpha coefficient results were above 0.7 for all dimensions except privacy, where a coefficient of 0.60 was obtained. In our study, Cronbach’s alpha coefficient results were above 0.8 for information and medical care and nursing care, except comfort, visiting, privacy and cleanliness where a coefficient under 0.65 was obtained.

Data from the clinical history were also gathered to perform analysis with the responses of the patients and companions: date of birth, date of the visit, time of arrival at the emergency department, electronically recorded time of the nursing triage and electronically recorded time at which the doctor assigned the date and time of release from the department. In the case of companions, data related to the patient’s visit were used.

2.5 Analysis

IBM® SPSS Statistics® version 19 was used to analyse the data.

The numerical variables are described by mean and standard deviation or by median and interquartile range. To study the association between the variables that met the criteria of normality, Student’s t test was used to compare quantitative and categorical variables, the Pearson’s correlation was used to compare quantitative variables and the chi-squared test was used for categorical variables. For variables that did not meet the criteria of normality, the Mann–Whitney U test and the Kruskal–Wallis non-parametric test were used to compare quantitative and categorical variables and the Spearman’s rho test was used for quantitative variables. A binary regression model was run from factors associated with patients’ and companions’ satisfaction with the emergency department adjusting for age, sex and level of optimism. The level of significance was taken as $p < 0.05$.

2.6 Ethics

All the participants who responded to the questionnaire also returned the signed informed consent. This project respects the Helsinki Declaration of the World Medical Association. The study was approved on 1 August 2012 by the ethical committee of the hospital before beginning the study.

3 RESULTS

A total of 15,273 patients were attended to, from whom, 1,526 patients were randomly selected (864 patients were included and 662 were excluded). A total of 285 responses were received (response rate 33.0%); of which, 221 (77.5%) corresponded to patients, 62 (21.8%) to companions and 2 (0.7%) to respondents who failed to identify themselves as either a patient or companion. The mean age of the respondents was 54.6 years ($SD = 18.3$), and 53.6% were women. The sociodemographic data of the patients and companions are presented in Table 1.

For patients and companions, the mean score for subjective overall satisfaction with the visit ($N = 273$) was 7.6 ($SD = 2.2$) [median = 8; IQR = 2]. The patients ($N = 214$) and companions ($N = 57$) assigned a mean satisfaction score of 7.6 ($SD = 2.2$) [median = 8; IQR = 2] and 7.5 ($SD = 2.1$) [median = 8; IQR = 3], respectively, without significant differences between the two scores (Mann–Whitney U test, $p = 0.390$).

The results of the individual dimensions of the satisfaction scale taken separately were as follows: for the dimension of medical care, a mean score of 84 ($SD = 17.2$) [median = 89.6; IQR = 24.1], for nursing care 79.7 ($SD = 19.9$) [median = 84.2; IQR = 26.3], for comfort in the department 65.7 ($SD = 19.1$) [median = 64.7; IQR = 23.5], for visiting 78.3 ($SD = 11.7$) [median = 81.8; IQR = 9.1], for privacy 79.6 ($SD = 30.3$) [median = 100; IQR = 25] and for cleanliness 91.3 ($SD = 14.1$) [median = 100; IQR = 16.7].

Analysing the association between subjective overall satisfaction and the age of the participants shows that older patients scored higher than younger patients with respect to overall satisfaction with the visit ($r = 0.236; p < 0.001$) (Pearson’s correlation).

The presence of pain was compared with overall satisfaction. Patients with pain gave a mean satisfaction score of 7.5 ($SD = 2.3$) [median = 8; IQR = 2], whereas those who were not in pain gave a mean score of 7.8 ($SD = 1.6$) [median = 8; IQR = 2] (Mann–Whitney U test, $p = 0.898$). On the other hand, studying the association of control of pain and overall satisfaction shows that people whose pain was better controlled gave higher scores for overall satisfaction with the visit (Kruskal–Wallis test, $p < 0.001$).

The perceived waiting time for nursing triage was compared with subjective overall satisfaction. It was found that patients who perceived that they had waited for a very short or short period of time gave higher scores for subjective satisfaction than did those who perceived that they had waited a long or extremely long time (Kruskal–Wallis test, $p < 0.001$). The relationship between the perceived waiting time for the medical visit and subjective overall satisfaction was also studied; patients who had the perception of having waited for a short or for a very short period of time gave higher scores for subjective satisfaction than did those who had the
perception of having waited for a long time or for an extremely long time (Kruskal–Wallis test, \( p < 0.001 \)).

Furthermore, the association between information about the waiting time and satisfaction was analysed. Patients and companions who were informed about the waiting time gave a mean score of 8.4 (SD = 1.8) [median = 9; IQR = 3], whereas those who were not informed gave a mean score of 7.4 (SD = 2.2) [median = 8; IQR = 3], (Mann–Whitney U test, \( p = 0.001 \)).

A total of 88.8% of the respondents would recommend the emergency department to a family member or friend. Analysing the possibility of recommending the department via subjective overall satisfaction shows that those who would recommend the department gave a mean score of 8.0 (SD = 1.7) [median = 8; IQR = 2] for overall satisfaction and that those who would not recommend it gave a mean of 4.6 (SD = 2.9) [median = 4; IQR = 5], (Mann–Whitney U test, \( p < 0.001 \)).

### TABLE 1  
Sociodemographic characteristics and studied variables of patients and companions

|                                | Patients (N) % | Companions (N) % | \( p \)  |
|--------------------------------|---------------|-----------------|---------|
| **Sex**                        |               |                 |         |
| Female                         | 108 (48.9)    | 42 (73.7)       | 0.001   |
| **Civil status**               |               |                 |         |
| Married/couple                 | 149 (68.0)    | 43 (70.5)       | 0.381   |
| Single                         | 27 (12.3)     | 3 (4.9)         |         |
| Widow/widower                  | 28 (12.8)     | 10 (16.4)       |         |
| Divorced                       | 15 (6.8)      | 5 (8.2)         |         |
| **Educational level**          |               |                 |         |
| Without studies                | 45 (20.8)     | 13 (22.0)       | 0.837   |
| Primary                        | 98 (45.4)     | 26 (44.1)       |         |
| Secondary                      | 51 (23.6)     | 16 (27.1)       |         |
| University                     | 22 (10.2)     | 4 (6.8)         |         |
| **Perception of control of pain** |           |                 |         |
| Not controlled at all          | 19 (10.4)     | 5 (10.0)        | 0.821   |
| Slightly but not completely    | 32 (17.6)     | 11 (22.0)       |         |
| Quite a lot but not complete   | 66 (36.3)     | 15 (30.0)       |         |
| Completely controlled          | 65 (35.7)     | 19 (38.0)       |         |
| **Perceived waiting time for triage** |     |                 |         |
| Very short                     | 47 (21.6)     | 15 (24.2)       | 0.648   |
| Short                          | 38 (17.4)     | 10 (16.1)       |         |
| Adequate                       | 103 (47.2)    | 30 (48.4)       |         |
| Long                           | 25 (11.5)     | 4 (6.5)         |         |
| Extremely long                 | 5 (2.3)       | 3 (4.8)         |         |
| **Perceived waiting time for medical attention** | | | |
| Very short                     | 32 (14.7)     | 10 (16.1)       | 0.485   |
| Short                          | 3 (15.7)      | 9 (14.5)        |         |
| Adequate                       | 83 (38.2)     | 29 (46.8)       |         |
| Long                           | 54 (24.9)     | 9 (14.5)        |         |
| Extremely long                 | 14 (6.5)      | 5 (8.1)         |         |
| **Information about the waiting time** | | | |
| No                             | 172 (79.3)    | 45 (75.0)       | 0.478   |
| Would you recommend the department? | | | |
| Yes                            | 187 (87.4)    | 56 (93.3)       | 0.198   |
| Age                            | 221 55.3 (18.6); 55.0 [29] | 36 50.6 (15.2); 53.5 [18] | 0.150   |
| Level of optimism              | 205 7.2 (2.0); 8.0 [3] | 56 7.1 (2.0); 7.0 [3] | 0.677   |
| Satisfaction with visit        | 205 7.6 (2.2); 8.0 [2] | 56 7.5 (2.1); 8.0 [3] | 0.693   |

Note. Qualitative variables are expressed as an absolute frequency and with percentages in brackets. Quantitative variables are expressed as the average (standard deviation) and median (interquartile range).
The level of perceived optimism of patients and companions had a mean score of 7.2 (SD = 2.0) [median = 8; IQR = 3].

Analysing the relationship between the level of optimism and subjective satisfaction with the visit shows a positive correlation between the two variables, with greater levels of optimism being found to correspond to greater overall satisfaction (Spearman’s rho test; ρ = 0.502; p < 0.001).

Table 2 shows the profile of the most and least satisfied users from the variables studied. The more satisfied users had a greater mean age (t-Student test; p < 0.001) than the less satisfied users, and women were found to be in more satisfied group (χ² = 4.98; p = 0.026). Observably, people who scored better in optimism were in the most satisfied group (Mann–Whitney U test; p < 0.001). Furthermore, people who had better controlled pain were found to be in the group of the most satisfied users (80.9% vs. 57%) (χ² = 15.12; p < 0.001).

Regarding the perceived waiting times, people who perceived that the waiting time for the visit of the triage nurse was very short or short were found to be in the group of the most satisfied users (49.4% vs. 23.4%) (χ² = 28.87; p < 0.001); the same occurred with the perceived waiting time for the medical visit, where those who considered this time to be very short or short were also among the group of the most satisfied users (38.3% vs. 16.8%) (χ² = 34.14; p < 0.001).

People who were not informed about the approximate waiting time for the medical visit were among the least satisfied (86.9% vs. 75.6%) (χ² = 5.14; p = 0.023), and people who would recommend the emergency department to a family member or friend were among the group of the most satisfied users (95.7% vs. 77%) (χ² = 21.64; p < 0.001).

**Table 2** Characteristics of patients and companions by level of satisfaction

| Variable                                      | Less satisfied (0–7) | More satisfied (8–10) | p       |
|-----------------------------------------------|----------------------|-----------------------|---------|
| N (%)                                         | 108 (39.6)           | 165 (60.4)            |         |
| Age (average and SD)                         | 49.4 (18.1)          | 58.12 (17.6)          | <0.001  |
| Sex (% women)                                 | 45.3                 | 59.1                  | 0.026   |
| Level of optimism (average and SD; median and IQR) | 6.21 (2.1); 7 (3) | 7.9 (1.7); 8 (2) | <0.001  |
| Control of pain (% sufficiently-completely controlled) | 57.0                 | 80.9                  | <0.001  |
| Perceived waiting time for triage (% very short-short) | 23.4                 | 49.4                  | <0.001  |
| Perceived waiting time until medical visit (% very short-short) | 16.8                 | 38.3                  | <0.001  |
| Information about the approximate waiting time (% no) | 86.9                 | 75.6                  | 0.023   |
| Would you recommend the emergency department? (% yes) | 77                   | 95.7                  | <0.001  |

**Table 3** Factors associated with the satisfaction of patients and companions

| Variable                                      | B       | ET     | Wald   | p     | OR     | CI 95%   |
|-----------------------------------------------|---------|--------|--------|-------|--------|----------|
|                                               |         |        |        |       |        | Lower    |
|                                               |         |        |        |       |        | Higher   |
| Age                                           | 0.034   | 0.011  | 9.783  | 0.002 | 1.035  | 1.013    |
|                                               |         |        |        |       |        | 1.057    |
| Sex                                           | −0.920  | 0.371  | 6.146  | 0.013 | 0.399  | 0.193    |
|                                               |         |        |        |       |        | 0.825    |
| Optimism                                      | 0.518   | 0.117  | 19.615 | 0.000 | 1.679  | 1.335    |
|                                               |         |        |        |       |        | 2.111    |
| Control of pain                               | −0.873  | 0.409  | 4.544  | 0.033 | 0.418  | 0.187    |
|                                               |         |        |        |       |        | 0.932    |
| Perceived time for medical visit              |         | 14.512 | 0.001  |       |        |          |
| Perceived time for medical visit 1            | 1.697   | 0.479  | 12.569 | 0.000 | 5.456  | 2.136    |
|                                               |         |        |        |       |        | 13.941   |
| Perceived time for medical visit 2            | 1.254   | 0.438  | 8.214  | 0.004 | 3.506  | 1.487    |
|                                               |         |        |        |       |        | 8.266    |

Notes. Perceived time for medical visit: long or extremely long; Perceived time for medical visit 1: very short or short; Perceived time for medical visit 2: acceptable; Sex reference variable inserted into the model was male.

*Binary logistic regression.
Table 3 shows the results of the binary logistic regression model, which reveals that age, sex and optimism were all factors associated with satisfaction. Age was significantly associated with greater satisfaction (OR = 1.035; CI 95% [1.01–1.06]; p = 0.002), as was the female sex (OR = 0.399; CI 95% [0.19–0.82]; p = 0.013). The level of optimism was also associated with user satisfaction, with the most optimistic people being the most satisfied (OR = 1.679; CI 95% [1.33–2.11]; p < 0.001).

Control of pain was a factor associated with satisfaction and greater control of pain was associated with greater satisfaction (OR = 0.418; CI 95% [0.19–0.93]; p = 0.002), as was the female sex (OR = 0.399; CI 95% [0.19–0.82]; p = 0.013). The level of optimism was also associated with user satisfaction, with the most optimistic people being the most satisfied (OR = 1.679; CI 95% [1.33–2.11]; p < 0.001).

In our study, the perception of the waiting time was one of the factors that most influenced the subjective overall satisfaction of users in terms of both nursing care and the medical visit. Similarly, in a study undertaken in an emergency department, patients who referred to having waited less time were more satisfied than those who had waited longer (Mercer, Hernandez-Boussard, Mahadevan, & Strehlow, 2014). A long or extremely long perceived waiting time has been shown to be negatively associated with satisfaction and users who referred to this aspect were the least satisfied, which is in line with earlier findings (Bos, Van Stel, Schrijvers, & Sturms, 2015; Brown et al., 2005; Nairn et al., 2004).

Being informed of the approximate waiting time also influences users’ satisfaction. The present results show that users who were informed about the approximate waiting time gave better scores for satisfaction with the service. In an investigation in an emergency department, Kington and Short (2010) observed that those who were surveyed asked for greater information about the waiting time. Similarly, Burström, Starrin, Engström, and Thulesius (2013) observed that giving information about the approximate waiting time and the attitudes of the staff were important aspects with regard to patient satisfaction. Along the same lines, in a literature review, Innes, Jackson, Plummer, and Elliott (2015) highlighted the importance of communicating the waiting times in emergency departments.

Patient satisfaction must include, along with overall satisfaction with the service, the probability that the patient will recommend the service to others and the willingness to return to the service (Welch, 2010). As in earlier studies (Boudreaux & O’Hea, 2004; Parker & Marco, 2014; Soleimanpour et al., 2011), we observed that user satisfaction is a key component in the choice and recommendation of an emergency service. On the other hand, user dissatisfaction may affect the viability of health institutions (Boudreaux & O’Hea, 2004) and influence the perception that users have of a hospital (Broadwater-Hollifield et al., 2014; Wagner, 2014).

Regarding optimism, the most satisfied users scored higher for optimism. Costello et al. (2008) observed that pessimistic patients gave lower scores for their level of satisfaction with the care received.

Identifying the factors associated with user satisfaction makes it possible to define strategies and actions to improve the quality of the emergency department. It is especially important to improve the control of pain in the emergency department and to reduce the
real and perceived waiting times as well as to improve the supply of information about these times.

4.1 | Limitations

The possible limitations of the present study are related to the methodology employed; the cross-sectional design does not allow causality to be established. Furthermore, we have no way of knowing the motivations of those who left the service without being visited and it is likely that these may include dissatisfaction with the service. One of the strengths of this investigation is the inclusion of companions in the patient satisfaction study.

5 | CONCLUSION

The level of satisfaction with the emergency department was high, and the factors associated with the satisfaction of patients and companions were age, sex, optimism, control of pain and the perceived waiting time before the medical visit.

The most satisfied users were those who were older, women, patients whose pain was better controlled and those who perceived shorter waiting times and who were informed of an approximate waiting time.

ORCID

Aurora Fontova-Almató https://orcid.org/0000-0001-5867-1681
Rosa Suñer-Soler https://orcid.org/0000-0002-7928-9112
Dolors Juvinyà-Canal https://orcid.org/0000-0002-8749-7800

REFERENCES

Bos, N., Van Stel, H., Schrijvers, A., & Sturms, L. (2015). Waiting in the accident and emergency department: Exploring problematic experiences. Southern Medical Journal, 108(10), 613–620.

Boudreaux, E. D., & O’Hea, E. L. (2004). Patient satisfaction in the waiting time. Boudreaux, E. D., & O’Hea, E. L. (2004). Patient satisfaction in the waiting time. Bos, N., Van Stel, H., Schrijvers, A., & Sturms, L. (2015). Waiting in the accident and emergency department: Exploring problematic experiences. Southern Medical Journal, 108(10), 613–620.

Ekwall, A., Gerdtz, M., & Manias, E. (2008). The influence of patient acuity on satisfaction with emergency care: Perspectives of family, friends and carers. Journal of Clinical Nursing, 17(6), 800–809. https://doi.org/10.1111/j.1365-2702.2007.02052.x

Eskew, A., Gerdtz, M., & Manias, E. (2009). Anxiety as a factor influencing satisfaction with emergency department care: Perspectives of accompanying persons. Journal of Clinical Nursing, 18(24), 3489–3497. https://doi.org/10.1111/j.1365-2702.2009.02873.x

Gea, M. T., Hernández-García, M., Jiménez-Martín, J. M., & Cabrera, A. (2001). Opinión de los usuarios sobre la calidad del Servicio de Urgencias del Centro Médico-Quirúrgico del Hospital Virgen de las Nieves. Revista De Calidad Asistencial, 16(1), 37–44. https://doi.org/10.1016/S1134-282X(01)73880-0

González, N., Quintana, J. M., Bilbao, A., Escobar, A., Aizpuru, F., Thompson, A., & De la Sierra, E. (2005). Development and validation of an in-patient satisfaction questionnaire. International Journal for Quality in Health Care, 17(6), 465–472. https://doi.org/10.1093/intqhc/mzi067

González, N., Quintana, J. M., Bilbao, A., Esteban, C., San Sebastián, J. A., & de la Sierra, E., ... Escobar, A. (2008). Satisfacción de los usuarios de 4 hospitales del Servicio Vasco de Salud. Gaceta Sanitaria, 22(3), 210–217. https://doi.org/10.1157/1312936

González-Valentín, M. A., Padín López, S., & de Ramón Garrido, E. (2005). Satisfacción del paciente con la atención de enfermería. Enfermería Clínica, 15(3), 147–155. https://doi.org/10.1016/S1130-8621(05)71101-3

Gordon, J., Sheppard, L. A., & Anaf, S. (2010). The patient experience in the emergency department: A systematic synthesis of qualitative research. International Emergency Nursing, 18(2), 80–88. https://doi.org/10.1016/j.ienj.2009.05.004

Granado de la Orden, S., García, A. C., Rodríguez Gijon, L. F., Rodríguez Rieiro, C., Sanchidrian de Blas, C., & Rodríguez Perez, P. (2011). Comparing nurse practitioners and emergency physicians. Intensive Care Medicine, 8(9), 770–774. https://doi.org/10.1007/s00134-009-1849-6

Innes, K., Jackson, D., Plummer, V., & Elliott, D. (2015). Care of patients in emergency department waiting rooms – An integrative review. Journal of Advanced Nursing, 71(12), 2702–2714. https://doi.org/10.1111/jan.12719

Jennings, N., Lee, G., Chao, K., & Keating, S. (2009). A survey of patient satisfaction in a metropolitan Emergency Department: Comparing nurse practitioners and emergency physicians. International Journal of Nursing Practice, 15(3), 213–218. https://doi.org/10.1111/j.1440-172X.2009.01746.x
