



BEYOND THE WAIT - DETERMINANTS OF PATIENT SATISFACTION IN THE EMERGENCY DEPARTMENT.

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Abstract

Background: *Objective:* To investigate & assess the processes of care that are significantly associated with patient satisfaction in the Department of Emergency Medicine of a tertiary care hospital in New Delhi NCR, India. **Materials and Methods:** This is a cross-sectional study performed on 250 patients visiting the emergency department of a tertiary care hospital in New Delhi NCR, India. A convenience sampling technique was used to select the required number of study subjects. A structured questionnaire was used for the collection of primary data. The collected data were used for qualitative and quantitative analyses using statistical formulae such as mean, standard deviation, frequency tables, etc. **Results:** The mean age of participants was 33.97 ± 9.06 years, with a majority being male (77.6%). Most patients (60.8%) presented with a new health problem, while 25.6% reported accidents or injuries. Notably, 85.2% used the ED as their primary point of care rather than visiting a primary health centre or general practitioner. Regarding waiting times, 20% of patients were attended to within 10 minutes, 40% within 10–20 minutes, and 40% after 20 minutes. Approximately 90% received medications and underwent diagnostic investigations, with about 70% receiving adequate information regarding indications and side effects. A high proportion of patients reported courteous behaviour from nurses (90%) and doctors (80%). Additionally, 94% were informed about follow-up care, although 88% expressed a need for such information. Overall satisfaction was high: 80% rated their care between 7–9, while 10% rated it 5–6 and 10% rated it 3–4. **Conclusion:** Despite longer waiting times for many patients, overall satisfaction remained high, indicating that factors such as communication, courtesy and effective counselling play a more significant role than waiting time alone. The study highlights areas for improvement and emphasizes the importance of optimizing key determinants to enhance patient satisfaction in the ED.

Keywords: CMS: Center for Medicare and Medicaid Services, EDPEC: Emergency Department Patient Experiences with Care, EDQS: Emergency Department Quality Study, HCAHPS: Hospital Consumer Assessment of Healthcare Providers and Systems, OU: Observation Unit, PRISMA: Preferred Reporting Items for Systematic Reviews and Meta-Analysis, SOQU: Seattle Outpatient Satisfaction Questionnaire.

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INTRODUCTION

An ED visit often represents the patient's initial experience with a hospital system and thus a unique opportunity to establish a positive first impression. However, these visits frequently occur during times of stress and uncertainty for the patient and in an ED care environment that faces a myriad of challenges. Overcrowding, inadequate communication, a lack of patient privacy, poor pain control, and uncomfortable ED environments all continue to be issues that impact patients' experiences of care and as a result remain areas of focus for ED leaders^{1,2,3,4,5}. These deficiencies not only lead to unsatisfactory experiences for ED patients but have important downstream effects as well. The frequency of both patient complaints and lawsuits was related to factors that strongly influence the patient experience; time spent with patients by physicians, the

perception of concern about patients' questions, and physician courtesy were all strongly associated. Subsequent work has also demonstrated that patients' ratings of their health care correlate more strongly with experience factors rather than with technical quality of care 6, 7.

Hospital administrators have come to accept the ED as the "front door to the hospital" and expect their emergency physicians and ED staff to take the issue of patient satisfaction seriously. Increasingly, emergency medicine consultant contracts are mandating that certain levels of patient satisfaction be met in order to retain the contract. Related benefits may include improved morale and job satisfaction in the ED, a reduced tendency for patients to seek further opinions, and a reduced incidence of complaints and litigation. There is also evidence of improved patient compliance 8,9,10. Beyond patient outcomes and malpractice risk, there also exists growing financial implications of poor patient experience in the ED. The development and deployment by the Centers for Medicare and Medicaid Services (CMS) of the Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) Survey in 2006 has led to an increased emphasis on patient experience within inpatient medicine. Some of the 27 items comprising the survey being physician and nursing communication, responsiveness/attentiveness, adequacy of pain management, and hospital environmental factors. Starting in 2017, HCAHPS total performance scores were tied to a 2% incentive or penalty for Medicare reimbursement. Patient experience with emergency department care is a rapidly expanding area of research and focus for health-care leaders, and recent literature has demonstrated a strong correlation between high overall patient experience and improved patient outcomes, profitability, and other health-care system goals 11, 12, 13.

Since that time, the regulatory environment and systems of ED care have also evolved, leading to potentially new areas of focus and themes related to ED patient experience. With the corporate healthcare industry booming in India, not only as the gold standard of advanced super specialty care but also as the go-to destination for primary care needs owing to an ever-growing patient population falling under insurance coverage, determining factors which improve ED patient satisfaction is important towards improving ongoing care in ED, outcomes post ED disposition whilst also ensuring growth in revenue from the ED for the hospital. Hence, the aim of the study is to understand how wait times in the ED perform against structured emergency medicine care, the endpoint being overall patient satisfaction; whilst identifying emergency department processes of care and aspects of treatment dispensed by emergency medicine specialists and nurses associated with patient satisfaction.

MATERIALS AND METHODS

Study Design and Setting

This cross-sectional study was conducted in the Department of Emergency Medicine of a tertiary care hospital in Delhi NCR. The study aimed to assess the selected study variables among patients presenting to the Emergency Department (ED) during the study period.

Study Duration

The study was carried out over a period of six months.

Sample Size and Sampling Technique

A total of 250 patients were included in the study. Participants were selected using a convenience sampling technique based on their availability and eligibility during the study period.

Study Population

The study population comprised adult patients attending the Emergency Department of the tertiary care hospital during the study period of six months.

Data Collection

Data were collected using a structured digital questionnaire administered to eligible participants after obtaining informed consent. The questionnaire was designed to capture relevant demographic and study-related information. Primary data were obtained directly from participants, while secondary data were gathered through a review of published literature from peer-reviewed journals, scientific databases, and relevant academic sources.

Inclusion Criteria

Participants meeting the following criteria were included in the study:

- Age 18 years or older.
- Patients presenting to the Emergency Department during the study period.
- Willing and able to provide informed consent.

Exclusion Criteria

Participants meeting any of the following criteria were excluded from the study:

- Age below 18 years.
- Patients unwilling or unable to provide informed consent.
- Patients referred from other healthcare facilities with prior intimation for higher-centre care.

Ethical Considerations

The study was conducted in accordance with the ethical principles outlined in the Indian Council of Medical Research (ICMR) guidelines. Written informed consent was obtained from all participants, and confidentiality and anonymity of the collected data were maintained throughout the study.

RESULTS

A. Demographics

The survey was completed by 250 patients. The sample was predominantly male (77.6%) with a mean age of 33.97 years (SD $\pm$ 9.06).

Table 1. Gender

Gender	Frequency	Percent	Valid Percent
Male	194	77.6%	77.6%
Female	56	22.4%	22.4%
Total	250	100.0%	100.0%

Table 2. Groups

Age Group	Frequency	Percent	Cumulative %
18 to 25	76	30.4%	30.4%
26 to 35	78	31.2%	61.6%
36 to 45	76	30.4%	92.0%
46 to 55	17	6.8%	98.8%
56 to 60	3	1.2%	100.0%
Total	250	100.0%	

Table 3. Going to the Emergency Department

Question	Response	Frequency	Percent	Mean	Std.	Chi-Square
1. Main reason for ED visit	An accident or injury	64	25.6%	1.53	0.72	90.272
	A new health problem	152	60.8%			
	An ongoing health condition	34	13.6%			
	Total	250	100.0%			
2. Came to ED by ambulance?	Yes	212	84.8%	1.15	0.36	121.104
	No	38	15.2%			
	Total	250	100.0%			
3. Wait before someone spoke to you	Less than 10 minutes	50	20.0%	2.20	0.75	20.000
	10 to 20 minutes	100	40.0%			
	More than 20 minutes	100	40.0%			
	Total	250	100.0%			

60.8% of patients presented with a new health problem, 25.6% had an accident or injury, and 13.6% had an ongoing health condition. 84.8% of patients arrived by ambulance. 40% of patients waited more than 20 minutes before being spoken to.

Table 4. During the Emergency Department Visit

Question	Response	Frequency	Percent	Mean	Std.	Chi-Square
4. Got care within 30 minutes?	Yes	215	86.0%	1.14	0.35	129.600
	No	35	14.0%			
	Total	250	100.0%			
5. Doctors/nurses asked about all medicines?	Yes	232	92.8%	1.07	0.26	183.184
	No	18	7.2%			
	Total	250	100.0%			
6. Given medicine during visit?	Yes	225	90.0%	1.10	0.30	160.000
	No	25	10.0%			
	Total	250	100.0%			
7. Told what medicine was for?	Yes, definitely	170	68.0%	1.42	0.67	140.600
	Yes, somewhat	55	22.0%			
	No	25	10.0%			
	Total	250	100.0%			
8. Side effects described understandably?	Yes, definitely	171	68.4%	1.42	0.67	143.384
	Yes, somewhat	54	21.6%			
	No	25	10.0%			
	Total	250	100.0%			
9. Had blood test, x-ray, or other test?	Yes	223	89.2%	1.21	0.61	354.296
	No	27	10.8%			
	Total	250	100.0%			
10. Given info about test results?	Yes, definitely	160	64.0%	1.46	0.67	115.400
	Yes, somewhat	65	26.0%			
	No	25	10.0%			
	Total	250	100.0%			

Table 5. People Who Took Care of You

Question	Response	Frequency	Percent	Mean	Std.	Chi-Square
11. Nurses — courtesy & respect	Never	11	4.4%	3.42	0.79	186.064
	Sometimes	14	5.6%			
	Usually	84	33.6%			
	Always	141	56.4%			
	Total	250	100.0%			
12. Nurses — listened carefully	Never	21	8.4%	3.18	0.91	110.512
	Sometimes	21	8.4%			
	Usually	101	40.4%			
	Always	107	42.8%			
	Total	250	100.0%			
13. Nurses — explained clearly	Never	13	5.2%	3.26	0.80	144.816

	Sometimes	17	6.8%			
	Usually	113	45.2%			
	Always	107	42.8%			
	Total	250	100.0%			
14. Doctors — courtesy & respect	Never	22	8.8%	3.37	0.91	185.360
	Sometimes	9	3.6%			
	Usually	73	29.2%			
	Always	146	58.4%			
	Total	250	100.0%			
15. Doctors — listened carefully	Never	10	4.0%	3.55	0.80	289.616
	Sometimes	19	7.6%			
	Usually	44	17.6%			
	Always	177	70.8%			
	Total	250	100.0%			
16. Doctors — explained clearly	Never	10	4.0%	3.39	0.78	173.648
	Sometimes	15	6.0%			
	Usually	92	36.8%			
	Always	133	53.2%			
	Total	250	100.0%			

56% of patients felt nurses always treated them with courtesy and respect; 83% felt nursing staff were always or usually attentive. 88% felt nursing staff almost always or usually explained things clearly. For doctors, 70.8% of patients felt doctors always listened carefully — the highest single positive rating in this section.

Table 6. Leaving the Emergency Department

Question	Response	Frequency	Percent	Mean	Std.	Chi-Square
17. Told to take medicine at home?	Yes	199	79.6%	1.20	0.40	87.616
	No	51	20.4%			
	Total	250	100.0%			
18. Told what medicine was for?	Yes, definitely	80	32.0%	1.80	0.63	75.464
	Yes, somewhat	141	56.4%			
	No	29	11.6%			
	Total	250	100.0%			
19. Discussed follow-up care?	Yes, definitely	99	39.6%	1.65	0.57	101.192
	Yes, somewhat	139	55.6%			
	No	12	4.8%			
	Total	250	100.0%			
20. Needed follow-up care info?	Yes	220	88.0%	1.12	0.33	144.400
	No	30	12.0%			
	Total	250	100.0%			
21. Given follow-up care info?	Yes	234	93.6%	1.06	0.25	190.096
	No	16	6.4%			
	Total	250	100.0%			
22. Told about symptoms to watch at home?	Yes, definitely	143	57.2%	1.51	0.64	91.816
	Yes, somewhat	87	34.8%			
	No	20	8.0%			

	Total	250	100.0%			
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Table 7. Overall Experience

Question	Response	Frequency	Percent	Mean	Std.	Chi-Square
23. Rate care (0–10 scale)	3 to 4	25	10.0%	6.96	1.47	241.344
	5 to 6	25	10.0%			
	7 to 9	200	80.0%			
	Total	250	100.0%			
24. Would recommend this ED?	Definitely no	6	2.4%	3.55	0.74	263.504
	Probably no	19	7.6%			
	Probably yes	169	67.6%			
	Definitely yes	56	22.4%			
	Total	250	100.0%			

80% of patients rated their care 7–9 out of 10 (mean 6.96). 90% of respondents would probably or definitely recommend this ED to friends and family.

Table 8. Your Health Care

Question	Response	Frequency	Percent	Mean	Std.	Chi-Square
25. ED visits in last 6 months	1 time	171	68.4%	1.42	0.67	143.384
	2 times	54	21.6%			
	3 times	25	10.0%			
	Total	250	100.0%			
26. Regular doctor/clinic besides ED?	Yes	213	85.2%	1.15	0.36	123.904
	No	37	14.8%			
	Total	250	100.0%			

85.2% of patients use this ED as their primary contact point for all healthcare needs including primary, emergency and specialty care.

Table 9. About You

Question	Response	Frequency	Percent	Mean	Std.	Chi-Square
27. Overall physical health	Excellent	157	62.8%	1.56	0.83	323.920
	Very good	53	21.2%			
	Good	35	14.0%			
	Fair	3	1.2%			
	Poor	2	0.8%			
	Total	250	100.0%			
28. Overall mental/emotional health	Excellent	166	66.4%	1.54	0.88	361.000
	Very good	44	17.6%			
	Good	32	12.8%			
	Fair	5	2.0%			
	Poor	3	1.2%			
	Total	250	100.0%			
29. Highest education level	8th grade or less	6	2.4%	4.12	1.03	257.600
	Some high school, did not graduate	17	6.8%			
	High school graduate or GED	18	7.2%			

	Some college or 2-year degree	124	49.6%			
	4-year college graduate	70	28.0%			
	More than 4-year college degree	15	6.0%			
	Total	250	100.0%			

62.8% of patients rated their physical health as excellent and 66.4% rated their mental/emotional health as excellent. 49.6% of respondents had some college or a 2-year degree, and 28% had a 4-year college degree.

DISCUSSION

The study aimed to understand how wait times in ED perform against structured emergency medicine care, the endpoint being overall patient satisfaction; whilst identifying emergency department processes of care and aspects of treatment dispensed by emergency medicine specialists & nurses associated with patient satisfaction. The study was performed on 250 consenting patients at the Department of Emergency Medicine & Urgent Care located in Delhi NCR, India. The relevant data collected from the study subjects were recorded and analyzed. Principal findings of the study are discussed below with reference to studies for comparison & review.

Demographics

In the study it was found that the majority of the study subjects were male (77.6%). The mean age of the study subjects was 33.97 ± 9.06 years. As per Aldaql et al the average age of patients was 45.9 years, ranging from 15 to 83 years. In his study there was a strong relationship between the patient dissatisfaction and patient's age (P value: 0.003), gender (P value: 0.001, with more female satisfaction) 14. Sun et al e determined that greater age predicted higher patient satisfaction, whereas all other variables correlated with lower patient satisfaction. It was found that the majority of the study subjects were male (67.4%). The mean age of the study subjects was 38 years 15. Messina et al in their study reported that majority of the study subjects belonged to age group 40-49 years with a majority of male study subjects (54.9%) 16. The mean age was 46.8 ± 19.8 years, and 187 (62.3%) were female 17. In a review by Morgan et al., one of the factors contributing to higher patient satisfaction was age (patient's ≥ 65 years); other factors included race/ethnicity (Non-Hispanic Black and Hispanic patients), Medicare insurance, and having a medication ordered in the ED 18. Similarly, Ammo et al. reported that among other factors, educational level and patient-provider interactions during episodes of care also influenced outcomes 19. Naseer et al it found young age to be associated with higher patient satisfaction. Other factors being female gender, literacy and high social class - the few patient characteristics influencing level of patient satisfaction 20.

ED Waiting Time

It was observed in the study that only 20% of patients had someone who attended to them within 10 mins whilst 80% of patients were attended to beyond the 10 minute mark with a half of them being attended to after 20 minutes post ED door time. Despite the majority of the patients being treated beyond the ED wait time mark of 10 minutes & 14% patients receiving medical attention only after 30 minutes post ED presentation, there appears to be no relation of this metric with scores of overall patient satisfaction in this particular study. Dinh conducted a study to describe the relationship between waiting time and patient satisfaction, and to determine predictors of overall care rating in an emergency department (ED) fast-track setting. Waiting time was hence, found to be highly predictive of patient satisfaction in an emergency fast-track unit 21. Damghi et al aimed to evaluate patient satisfaction with emergency care, and to determine associated factors with patient satisfaction. It was concluded that one of the most important variables associated with greater satisfaction with ED care was waiting time less than 15 minutes 22. Aldaql et al it was found that the lowest level of satisfaction was for the waiting time in the emergency 14. Further, Huang et al. concluded that managing waiting time perceptions and providing discharge instructions may improve patient satisfaction among frequent ED users 23. Additionally, a systematic review by Taylor identified perceived waiting times, interpersonal skills/staff attitudes, and provision of information and explanation as the most frequently reported service factors 24.

Interpersonal Skills – Attentiveness, Efficient Counselling and Courtesy

In our study, 92.8% patients were asked about their medication history and 90% patients were administered drugs during their ED stay. 90% patients were counselled and informed about the therapeutic indication, side effects profile of the drugs administered to them; 89.2% patients got a diagnostic procedure done - radiological or pathological or both. 90% patients were content with the counselling done while 10% patients felt that they didn't receive adequate information as per their expectations. 56% patients felt that they were always treated with courtesy & respect by the nursing staff while 34% felt that it was usually the case. ~ 9% patients felt that the courtesy was minimal, infrequent or absent altogether a resounding 83% patients felt that the nursing staff were always or usually attentive to their concerns/ queries while 17% patients felt that the nursing staff were sometimes or even never attentive to the patient's concerns or queries. 88% of patients felt that the nursing staff almost always or usually explained things to the patient in a way they could comprehend while 12% of

patients felt that it was sometimes or even never the case. 58.4% patients felt that they were always treated with courtesy & respect by the doctors while 29.2% felt that it was usually the case. ~ 12.4% patients felt that the courtesy was minimal, infrequent or absent altogether. A resounding 88.4% patients felt that the doctors were always or usually attentive to their concerns/ queries while 11.6% patients felt that the doctors were sometimes or even never attentive to the patient's concerns or queries. 90% of patients felt that the doctors almost always or usually explained things to the patient in a way they could comprehend while 10% of patients felt that it was sometimes or even never the case. 79.6% patients were informed of their discharge medicine to be taken at home by the doctors or nurses or both whilst 20.4% were not. Of the 199 respondents who were told to take medications at home- 88.4% patients were explained the need for the same by doctors/nurses whilst 11.6% were not. Among the patients, 39.6% were informed about their follow-up care by doctors and/or nurses, 55.6% were partially informed, while 4.8% were not informed at all. Additionally, 93.6% of patients were given information on how to obtain follow-up care by doctors and/or nurses, whereas 6.4% were not provided with this information appropriately. 57.2% patients were informed about symptoms or health problems to look for at home by the doctor and/or nurse; 34.8% patients were partially informed whilst 8% were not informed at all. In another study it was concluded that a patient's perception of his or her clinic experience is heavily influenced by the attentiveness and coordination of the entire clinic care team 25. As per the study by Ammo et al., patient satisfaction was assessed with services provided in inpatient health care settings in Lebanon. It was concluded that patient satisfaction with hospital care is significantly influenced by patient's provider interactions during the episodes of care 19. Schoenfelder et al conducted a study to identify key determinants of patient satisfaction. The results of the analysis showed that there are 10 determinants of Global patient satisfaction. The outcome of treatment was overall, the most salient predictor followed by nursing kindness as the second most important component 26. In another study, Glickman et al. examined clinical data on 6467 patients and found that satisfaction with nursing care was the most important determinant of overall patient satisfaction ($P < 0.001$) 27. Toma et al it was found that overall satisfaction was strongly correlated with patient's assessment of the physician's interpersonal skills and was not correlated with whether the physician had met expectations about diagnostic and therapeutic interventions 28. The survey validates the importance of previously identified determinants of patient satisfaction, poor explanation of problem, poor explanation of test indications & results, and not told when to return to the ED / discharge advice 15.

Overall Satisfaction

In the present study patients have responded affirmatively to the dimensions regarding their overall experience in the emergency department. In the sample of 250 respondents - 10% patients rated a lowly 3-4, 10% rated 5-6 and 80% gave a high rating of 7-9 for ED care with a score of 10 being best ED care possible. Majority of the study subjects (80%) seemed to be highly satisfied with the emergency department care given to them. However, 20% of the study subjects were still not happy with the emergency care provided to them, signifying possible scope for improvement.

Dinh 236 patients completed surveys (response rate of 74%). Of these, 84% rated their care as either very good or excellent 21. Damghi et al Sixty six percent of participants were satisfied with overall care, and 69.8% would return to their ED. The findings of this study suggest that doctor and nurse care, communication, courtesy and effective counselling in the ED significantly impact the patient satisfaction 22. Yordan in their study reported that overall satisfaction was significantly related to the doctor's explanation, the nurse's attitude, teamwork, and technical quality of care. In addition, likelihood of the patient's willingness to return was related to the patient's overall satisfaction. In this study showed that about half of the patients stated that they would recommend their institution ED to their friends and family. The likelihood that a patient will recommend a service offered by a hospital is also dependent on factors beyond the ED's scope of practise, most important possibly being costs incurred during ED stay 17.

Limitations of the Study

The cross-sectional design of the study limits the ability to establish causal relationships between the variables studied and patient satisfaction outcomes. The findings represent associations observed at a single point in time and should therefore be interpreted with caution.

The study was conducted in a specific emergency department setting, which may limit the generalizability of the findings to other healthcare facilities, regions, or populations with different demographic and healthcare characteristics.

The study population may not be fully representative of all patients attending the emergency department, thereby introducing the possibility of selection bias and limiting the external validity of the results.

Patients who were extremely dissatisfied with the care and treatment received were often unwilling to provide consent for participation or left the emergency department before completion of their treatment. Consequently, their views and experiences could not be captured within the study.

The exclusion of highly dissatisfied patients may have resulted in an overestimation of overall patient satisfaction and limited the identification of factors contributing to dissatisfaction with emergency department services.

As patient satisfaction was assessed through self-reported responses, the findings may be subject to response bias, recall bias, and social desirability bias, potentially influencing the accuracy of the reported perceptions.

FUTURE RESEARCH

The complex relationship between individual aspects of care and overall patient satisfaction suggests that studies conducted at a local level are unlikely to demonstrate substantial improvements in overall satisfaction. Nevertheless, the existing literature indicates specific areas that warrant attention and provides guidance regarding approaches that may be explored in future research.

Three interventions worthy of further investigation are:

1. Identifying additional factors that influence interpersonal communication in the Emergency Department (ED) and developing strategies for their improvement. Evidence suggests that short training programs focused on enhancing empathy and strengthening rapport with patients can be highly effective in improving communication and patient satisfaction.
2. Providing patients with more comprehensive information, effective counselling, and evidence-based explanations regarding their diagnosis, treatment, and expected outcomes.
3. Understanding whether the costs of care incurred by patients in the ED play a role in determining overall patient satisfaction, beyond the core functions of the emergency department, namely the provision of effective diagnostic and therapeutic care.

Future research should evaluate the impact of these and similar interventions on patient satisfaction and quality of care in the Emergency Department.

CONCLUSION

The majority of patients reported high levels of overall satisfaction with emergency department care. Interpersonal factors such as communication, attentiveness, courtesy, and counselling were key determinants of patient satisfaction. Waiting time alone did not significantly influence overall satisfaction in this study, although it remains an important factor in other studies. Gaps were identified in follow-up communication, discharge instructions, and patient awareness regarding post-Emergency department care. A patient-centered approach, along with improved communication and streamlined processes, is essential for enhancing patient satisfaction.

The present study demonstrates that patient satisfaction in the Emergency Department is multifactorial, with greater emphasis on the quality of interpersonal interactions and effective communication rather than operational factors alone. Although most patients expressed satisfaction with the care received, deficiencies in follow-up guidance and discharge-related communication highlight areas requiring targeted improvement.

Overall, strengthening patient-provider communication, enhancing counselling practices, and optimizing patient flow can significantly improve patient perceptions of care. The adoption of structured, patient-centered strategies is likely to result in improved satisfaction outcomes and a higher overall quality of emergency healthcare delivery.

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