

ISSN : 23474726(online) ISSN: 2347-4076(print)



Vichaara

An International Journal of Management

Volume	:7	December 2021	Number:1

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EVALUATION OF HEALTH CARE SERVICES AT PRIVATE HOSPITALS DURING PANDEMIC-- A SERVPERF APPROACH

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Abstract

Purpose – The purpose of this research is to measure the service Quality and its impact of patients' satisfaction. **Methodology** – SERVPERF, a scale developed and validated by Cronin and Taylor (1994) is adopted to measure the service quality. A sample 269 data were collected from the customers of private hospitals. Scales used were tested for their model fit. Correlation and Regression were used to analyse the outcomes.

Findings

The research results reveal that the dimensions namely reliability, tangibility, responsiveness and assurance are greatly influencing Customer satisfaction and empathy is not significant in its impact. There is no significant difference on service quality based on the demographic profile of customers.

Research Limitations

This research focuses only on the service perception and further research can be initiated by considering customer loyalty and switching behaviour and an effect of service quality.

Practical Implications

The results derived in this research is useful in taking decisions on service delivery in most effective ways and frame strategies to strengthen customer satisfaction by private hospitals.

Key Words: Health Care Services, Service Quality, Service Perception and Customer Satisfaction

INTRODUCTION

The entire humanity world- wide faces naval coronavirus called COVID 19 on Dec 2019, which resulted in effecting public health and dramatic loss of human health. During pandemic frontline health care workers (HCW) who plays a crucial role in providing care to infected public. Despite of this HCW faced unprecedented several mental health issues such as anxiety, depression, burnout stress related disorders. Above the all HCW are overloaded work beyond their capacity which increases case of dearth and medical issues, other major challenges faced by HCW is with low resources setting they have to frame the strategies such as curtailment of routine out and inpatient services, postpone electric surgeries, duty shifting, etc. When health systems are overwhelmed so frontline workers fail to access needed care for direct mortality and indirect mortality which leads to a) Misinformation and limitations

on movement that disputes the delivery of healthcare b) Shortage of quality personal protective equipment (PPE) c) Lack of incentives and d) Absence of coordination and proper management during their services.

Health care Service sector in India is having major impact due to COVID-19 pandemic in terms of delivering essential services. The biggest challenge in the beginning was maintaining preventive and curative services to children and aged persons who are more vulnerable. World Health Organisation is coordinating between different nations to access high quality essential services. The approach towards the patients by the hospital employees was completely different in the initial times of pandemic. Many patients were not allowed for regular treatments and sometimes there were provided with basic medicine without medical checkups. This research aims at understanding the customer perception towards service quality of private hospitals.

LITERATURE REVIEW

Mesut Akderea, Mehmet Topb and Sabahattin Tekingunduzc (2018), proposed in their study that the perceived level of service quality have become important component in healthcare sector. For measuring the level of quality of service in different dimensions the SERVPERF model is used. This model demonstrates the growing importance of quality of service in service industries. This study concludes that the Assurance producing highest and empathy producing lowest impact in service quality perception. Suneela Garg, Saurav Basu, Ruchir Rustagi, Amod Borle (2020), stated in their study that the Primary healthcare centers (PHCs) are the first tier of the Indian healthcare system, providing essential outpatient services for the people living in the rural, suburban, and hard to reach areas. The Lower-middle-income countries (LMICs) are facing major challenges during COVID-19 pandemic due to unavailability of health care infrastructure and there is a need of effective planning in health care infrastructure.

Mrs. D. Subashini, Dr. S. Poongodi, (2015) stated in their study that it is important to have knowledge about patients perception in health care quality for initiating reforms in health care sector and satisfying the customers become important task for health care service sector. By using the SERVQUAL instrument as testing tool it is found that the "Responsiveness" having high impact in maximising level of satisfaction of patients towards health care service. Fan L-h, Gao L, Liu X, Zhao S-h, Mu H-t, Li Z, et al. (2017), stated in their study that the relationship between Doctor and Patient becoming more

important now a days. The Hospitals needs to improve their service quality through reducing conflict between doctor and patient. The hospitals are to understand their service quality it must identify its own competitive advantages and disadvantages. The six service quality dimension model is used for finding the negative gap between patient's expectation and perception and it is found that the largest gap is economy dimension. The hospitals must provide adjust according to situation and should provide constant quality of service to improve their service quality.

Mohammad Ali Abbasi-Moghaddam, Ehsan Zarei, Rafat Bagherzadeh, Hossein Dargahi and Pouria Farrokhi (2017). State that the customer attitude towards perceived quality, accuracy of procedure and constant monitoring of healthcare services are important for to assess the service quality in health care and it is found that to improve the disclosure of information to patient, reduce waiting time in online appointment system for physician and physical environment of clinics to increase patient's positive perception. Isaac Theophilus Ampah,Rabi Sidi Ali (2019) stated that the study aims to analyse the effective quality of service leads to Customer Satisfaction in Public Healthcare Institutions. The institutions have to increase service quality and customer satisfaction for have long-lasting and win-win relationship with customers. They found that the appointment of qualified personnel and adequate funding form government will enhance the service quality and customer (patients) satisfaction in public healthcare institutions.

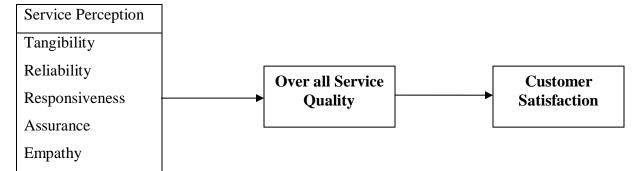
Vishal Kamra, Supreet Kaur Sethi, J. K. Sharma (2019), this study aims to compare quality healthcare service in private with public hospitals. "Zero defections" a new concept introduced by hospitals to cater service excellence. It is found that the tangibility in location, equipment, personnel, parking space etc. are playing important role in service quality and the public hospitals needs to concentrate more on these components to provide quality of service. Muhammad Shafiq, Muhammad Azhar Naeem, Zartasha Munawar, and Iram Fatima (2017) remarks that based on nature and ownership the hospitals vary in terms of their resource availability, speciality and services offered. The SERVQUAL instrument is used to find the service quality gap. It is identified that there is a need assess the customers for to improve their quality of service.

Ching-Sheng Chang, Su-Yueh Chen and Yi-Ting Lan (2013) proposed that in service sector the interpersonal interaction is becoming important element and it influence the trust on service quality and customer satisfaction, this study try to bridge the gap in service quality with an evidence based practice. In this research it is identified that the medical care institutions work with 'customer-oriented'

operational philosophy to develop 'customer value' and also work towards the objective of customer satisfaction through customer perception. Nhi Xuan Nguyen, Khoa Tran, Tuyet Anh Nguyen (2021) reveals that the service quality dimensions are analysed and how it influence in patient perceived value, customer satisfaction and loyalty in private healthcare service. The Doctors and nurse and well qualified and offering high quality service even though many studies stated the healthcare lacks in patient satisfaction. The healthcare service sector must follow patient-centered design for satisfying the customers. It is found that, for inviting new customers the private hospitals must have focus on social media and post treatment service too.

Suzana Markovic, Dina Loncaric, Damir Loncaric (2014) states that in Croatia, the Specialty hospitals and health spas operates as the non-profit sector, but trying to provide their services to healthcare tourism market. To participate the in that they should adopt new business philosophy and this created the need for 'customer-oriented' and more focus on service quality and satisfaction. In this research it is found that the patients are more conscious about cleanliness and neatness in equipment and environment and expecting more professionalism in service offering. Dr. Darshana R. Dave, Reena Dave (2014) proposed that, in India households spending is more than public spending. Aim of the study is to identify the effect of service quality in customer (patients) satisfaction and loyalty in private hospitals. After Second World War in some countries like Eroup, Africa and Asia the healthcare sector took part in economic development. It is identified that healthcare service provide must offer correct information time to time, need to have convenient operating hours and must give individual attention and also to develop a strategy to provide quality of service.

CONCEPTUAL FRAMEWORK



RESEARCH METHODOLOGY

The patients who have recently experienced the services at private hospitals were contacted to collect the primary data. An on line survey was conducted to collect the data. The researcher has adopted SERVPERF model which has five dimensions and 22 items to measure perception on service quality. Lahore, et al's (2004) customer satisfaction measure is adopted. Face validity was conducted with 20 customers of private hospitals and few questions were rephrased for better understanding of customers. A descriptive study was conducted to find out the impact of service perception on service quality and its impact on customer satisfaction. In order to attain the major objectives statistical tools namely Anova, t test, Correlation and Regressions were conducted using SPSS 21. The Cronbach's Alpha value for the 22 items of servperf scale was examined and found .763 which represents that the scale adopted is more reliable for this set off respondents and data.

RESULTS AND DISCUSSION DEMOGRAPHIC PROFILE OF THE RESPONDENTS

The sample shows that 58% of participants were male and 67% of them fall in the age group of 50 - 60 years. Among the respondents 83% of them have completed atleast a degree. The occupation of the respondents mostly falls in the category of private employees with 72%. With regard to reasons for availing services, 76% of patients have taken treatment for Covid in the hospital, 12% of patients for general checkup the remaining patients for treatment like dentist, eye and cardiologist.

	F	Sig.
Gender	1.018	.315
Age	.389	.816
Occupation	1.253	.287
Income	.573	.235

DIFFERENCE IN PERCEPTION OF SERVICE QUALITY

Table1. Difference on perception of Service Quality based on demographic profile

The results reveal that there is no significant difference in the opinion of customers based on different demographic profile towards service quality perception. Since the significant values are higher than the standard value .05, the null hypothesis is accepted which means there is no significant difference.

SERVICE QUALITY AND CUSTOMER SATISFACTION

Regression analysis is used for test the level of influence of service quality Dimensions on Customer satisfaction. The dimension with the largest coefficient represents the most important dimension in terms of its influence on customer satisfaction. The next largest coefficient represents the second most influential dimension and so forth.

R	R Square	Adjusted R Square	Std. Error of the Estimate
0.822	0.676	0.675	0.582

TABLE 2. REGRESSION SUMMARY

The adjusted R square value was 0.676 which means that service quality dimensions in hospitals account for 68 percent of the variance in "Customer Satisfaction Service Quality". It represents 32 percent of customer satisfaction is explained by something other than the service quality dimensions. It was observed that the overall regression model is significant (F=373.835, p<0.00) and hence the model has a good fit.

	Reliability	Assurance	Tangibility	Empathy	Responsiveness
Customer	.870	.789	.684	.122	.883
Satisfaction					

TABLE 3. CORRELATION

The relationship between different dimensions of service quality and their impact was examined in this research for their influence on customer satisfaction at private hospitals. The four dimensions namely reliability, tangibility, responsiveness and assurance have positive impact on customer satisfaction. Empathy is found to be low in private hospitals during pandemic which is the most important factor to be considered for customer satisfaction in health care industry.

CONCLUSION

The impact of service quality perception plays a vital role in determining customer satisfaction. The demographic profile is not showing any difference on perception towards service quality of private hospitals. Future research can focus on different cultural settings. This research can be further used by the private hospitals for framing the policies to take at most care in maintaining empathy during all service encounters.

REFERENCE

- Mesut Akdere, Mehmet Top & Sabahattin Tekingunduz (2018), "Examining patient perceptions of service quality inTurkish hospitals: The SERVPERF model", Total Quality Management &Business Excellence, Volume 31, Issue 3-4. https://doi.org/10.1080/14783363.2018.1427501
- Suneela Garg, Saurav Basu, Ruchir Rustagi, Amod Borle (2020). Primary healthcare facility preparedness foroutpatient service provision during the COVID-19 pandemic in India, JMIR Public Health and Surveillance. https://preprints.jmir.org/preprint/19927
- Mrs.D.Subashini, Dr.S.Poongodi, (2015). Service Quality And Patient's Satisfaction In Health Care SectorWith Special Reference To Erode District, IOSR Journal Of Humanities And Social Science (IOSR-JHSS)e-ISSN: 2279-0837, p-ISSN: 2279-0845.www.iosrjurnals.org.
- Fan L-h, Gao L, Liu X, Zhao S-h, Mu H-t,Li Z, et al. (2017). Patients' perceptions of servicequality in China: An investigation using theSERVQUAL model. PLoS ONE 12(12):e0190123.https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0190123
- Mohammad Ali Abbasi-Moghaddam, Ehsan Zarei, Rafat Bagherzadeh, Hossein Dargahi and Pouria Farrokhi (2017).Evaluation of service quality from patients'viewpoint. Abbasi-Moghaddam et al. BMC Health Services Research (2019) 19:170. https://doi.org/10.1186/12913-019-338-0
- Isaac Theophilus Ampah, Rabi Sidi Ali (2019). The Role of Service Quality in Patients(Customer) Satisfaction in Public HealthcareInstitutions in Ghana, International Journal of Innovation and Economic Development, Volume 5 Issue 2, ISSN 1849-7020 (Print). http://dx.doi.org/10.18775/ijied.1849-7551-7020.2015.52.2005
- Vishal Kamra, Supreet Kaur Sethi, J. K. Sharma (2019). An Empirical Study on Service QualityComparison Between Private and Public Hospitalsin Delhi-NCR,International Journal of Marketing and Business Communication. http://publishingindia.com/ijmbc/
- Muhammad Shafiq, Muhammad Azhar Naeem, Zartasha Munawar, and Iram Fatima(2017). Service Quality Assessment of Hospitalsin Asian Context: An Empirical EvidenceFrom Pakistan, INQUIRY: The Journal of Health CareOrganization, Provision, and FinancingVolume 54: 1–12. https://journals.sagepub.com/home/inq
- Ching-Sheng Chang, Su-Yueh Chen and Yi-Ting Lan (2013).Service quality, trust, and patient satisfaction ininterpersonal-based medical service encounters, Chang et al. BMC Health Services Research 2013, 13:22. http://www.biomedcentral.com/1472-696313/12
- > Nhi Xuan Nguyen, Khoa Tran, Tuyet Anh Nguyen (2021).Impact of Service Quality on In-

Patients'Satisfaction, Perceived Value, and CustomerLoyalty: A Mixed-Methods Study fromaDeveloping Country. Patient Preference and Adherence Dovepress, open access to scientific and medical research, Nguyen et al.

- Suzana Markovic, Dina Loncaric, Damir Loncaric (2014). Service Quality And Customer Satisfaction In The Health Care Industry - Towards Health Tourism Market, Tourism and Hospitality Management, Vol. 20, No. 2, pp. 155-170, 2014.
- Dr. Darshana R. Dave, Reena Dave (2014). A study on Service quality and customer satisfaction of selected Private hospitals of Vadodara City, Pacific Business Review International Volume 6, Issue 11, May 2014.
- Aurora S and Malhotra M (1997) Customer satisfaction: A comparative analysis of the satisfaction level of customer of public and private sector banks. *Decision* 24: 109-30.
- Anderson E W, Fornell C and Mazvancheryl S K (2004) Customer satisfaction and shareholder value. J Mktg 68: 172-85.
- Bolton R and Drew J H (1991) A multistage model of customer's assements of service quality and value. J Consumer Res 17: 375-84.
- Boulding W, Kalra A, Staelin R and Zeithmal VA (1993) A dynamic process model of service quality: from expectations to behavioral intentions. *J Mktg* 30: 7-27.
- David K and Wilton P C (1988) Models of consumer satisfaction formation: An extension. J Mktg Res 25: 204-10
- Dholakia A M and Morwitz G (2002) The scope and persistence of mere-measurement effects: Evidence from a field study of consumer satisfaction measurement. J Consu Res 29: 159-67
- Folkes V S and Patrick V M (2003) The postivity effect in perceptions of services: Seen one, seen them all? J Consumer Res 30: 125-137.
- Grewal D, Monroe K B and Krishnan R (1998) The effects of price-comparison advertising on buyers, perceptions of acquisition value, transaction value, and behavioral intentions. J Mktg 62: 46-59
- Garbarino E and Johnson M S (1999) The different roles of satisfaction, trust and commitment in customer relationships. *J Mktg* 63: 70-87
- Gruca T S and Rego L L (2005) Customer satisfaction, cash flow, and shareholder value. J Mktg 69: 115-130
- Gustafsson W, Johnson M D and Roos I (2005) The effects of customer satisfaction, relationship, commitment, dimensions and triggers ion customer retention. J Mktg 69: 210-215.