

Rural Healthcare - An Employee Engagement Perspective of Hospitals

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Abstract

Objectives: This is a survey on employee engagement level in hospitals of a rural district of India to find out the influencing factors and propose a strategic model. **Methods/Analysis:** Among the 11 public and 80 private hospitals, stratified random and disproportionate convenience sampling techniques were used to select the 35 hospitals and the 506 respondents. All levels of employees were included unlike the earlier researches conducted. An existing standard Employee Engagement questionnaire combined with a customer perception questionnaire was administered. In analysis, Descriptive and Multiple Regression were used. **Findings:** The present levels of engagement are 82.51% and customers are the most influencing factor for engagement. From the available research reports it is found in India the fully engaged employees are in the region of 9 to 17 % and the level of engagement is just above 70 %. The high level of engagement is different from various reports. The study has provided insights and information about employee engagement in hospitals so that the administrators can develop and implement strategies to improve the same thereby increasing employee commitment, service quality and customer satisfaction. **Novelty/Improvement:** A strategic model to improve the engagement level is proposed and thus the ultimate social contribution to provide better healthcare service to the people will be achieved.

Keywords: Commitment, Customer Satisfaction, Employee Engagement, Health Care, Hospitals, Service Quality

1. Introduction

1.1 Health Care in India

In the Indian healthcare market, private sector is driving the growth and expansion of the most promising markets in the world. It consists of hospitals, medical equipments, health insurance, education, training and health services. A large number of hospitals including both public and private are in the urban areas. The 28% urban residents have access to 66% of hospital beds in India and the 72% rural population has only the remaining¹ (Report by IMS Institute for Healthcare Informatics). Also, The Hindu, 2013 said “the distribution of healthcare workers, including doctors, nurses, and pharmacists, is highly concentrated in urban areas and the private sector”².

In rural areas the public healthcare institutions like primary health centers and district hospitals are providing healthcare services. The National Family Health Survey (NFHS) III reports that the private medical sector is the primary source of health care for the majority of households in urban (70 per cent) as well as rural areas (63 percent). In the private sector Private Doctors or clinics are catering to 46 per cent of the urban and 36 per cent of the rural households³ (NFHS. IIPS and Macro International, 2007: 436). The cost of inpatient treatment in the private sector is much higher compared to treatment in government hospitals⁴.

1.2 India's Health Workforce

The health workers present in both the private and public sector are offering health services in several systems of

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medicine. As per the National Occupation Classification (NOC), allopathic health service providers comprise doctors (general and specialists), dentists, nurses, midwives, pharmacists, technicians, optometrists, physiotherapists, nutritionists, sanitarians and a range of administrative and support staff⁵ (GOI/NOC).

The urban areas have the majority (60%) of health workers. Also, majority (70%) of health workers are employed in the private sector in both urban and rural areas⁶. As per World Health Organisation greater availability of health workers can be linked with better service utilization and health outcomes⁷⁻⁹.

The need of the hour in the Indian Hospitals is to offer the best services with the help of existing employees. Technological advancements may join but the employees from Doctors, Nurses, Technicians, Lab assistants, Managers and other health workers need to perform better. This can be achieved by committed, high performing employees. In this context this study proposes to analyze current status of employees and their engagement levels in hospitals of Nagapattinam district, Tamil Nadu, India.

1.3 Defining Employee Engagement

A variety of perspectives exist related to the definitions and understanding of engagement as well as the most elusive way to measure it. Although Merriam-Webster Dictionary defined engagement as emotional involvement or commitment toward the organization, within the literature, employee engagement is defined in many ways.

“The simultaneous employment and expression of a person’s preferred self in task behaviors that promote connections to work and to others, personal presence (physical, cognitive, and emotional) and active, full role performances”, is called as personal engagement¹⁰.

According to¹¹, engagement has three aspects: energy, involvement, and efficacy. The combination of cognitive and emotional antecedent variables in the workplace, which generates higher frequency of positive effect¹², was identified as employee engagement.

Employee engagement is a positive, fulfilling work-related state of mind which is characterized by vigor, dedication and absorption¹³, defined engagement as a state of being attracted, committed and fascinated¹⁴.

Employee engagement is defined as the extent to which workforce is committed to the goal, mission and vision of the organization¹⁵. It is the highest form of commitment where each one wants to do whatever he can

for the benefit of the organization¹⁶. It is how employees feel, think and act with regard to the employer¹⁷.

An employee putting forth extra discretionary effort and has the likelihood of being loyal and remaining with the organization over the long time can be called an engaged employee¹⁸. Engagement is characterized as providing extra effort and of possessing an emotional commitment to the organization and the job¹⁹.

In²⁰ defined engagement as “an amalgamation of commitment, loyalty, productivity and ownership, and it is the illusive force that motivates employees to higher levels of performance”.

Engagement is the degree to which an individual is attentive and absorbed in the performance of his roles²¹. It is an energetic state in which the employee is dedicated to excellent performance at work and is confident of his or her effectiveness²². It is a barometer that determines the association of a person with the organization²³.

1.4 Employee Engagement in Health Care

Many industries, including healthcare have a strategic goal of attaining high level of engagement since engaged employees are committed, satisfied with their work and willing to give extra effort to achieve the organization’s goals. Though satisfaction levels were measured among health care employees very few studies applied the concept of engagement and are only evolving²⁴.

Researchers found strong correlations between employee engagement scores and customer experiences²⁵. The positive relationship between staff satisfaction and patient satisfaction has been identified²⁶. Evidences suggest that in healthcare managers can improve patient care experiences by improving employee satisfaction and retention²⁷⁻³⁰. England’s National Health Service documents show the relationship between higher levels of staff engagement, higher-quality services and better financial performance³¹.

Engagement is especially important in the health care setting where engagement can be a matter of health or illness to those dependent on receiving services.

In health care the factors like the job, training and development opportunities, team, supervisor, senior management and organizational support are important for employee engagement²⁴.

Significant relationships between engagement within the work role and job performance outcomes have been identified in several service disciplines^{32,33}.

Work engagement is crucial in the hospital setting. Nurses, for example, work directly and consistently with patients and need to be engaged in their work not just for themselves, but for they hold a lot of responsibility for other people's lives³⁴. Gallup surveys have measured engagement in many health care work settings and consistently found nurses to be the least engaged of healthcare workers³⁵ showed that workers in the health care fields have the lowest scores of vigor and absorption¹³. These outcomes are particularly problematic for health care professionals, where absence and decreased job performance can harm patient health as well³⁶. Health care professionals are expected to provide good customer service to patients in addition to accurate diagnoses, safe and efficient treatment³⁷ and often requiring emotional labor³⁸.

Engaged employees are involved in process improvement and to look for innovative ways to reduce costs and increase efficiencies than employees who are not engaged or who are actively disengaged. Few Indian hospitals, though, are actively measuring and managing staff engagement³⁹. Interventions aimed at developing employee engagement will likely result in increased commitment and reduced turnover in healthcare contexts⁴⁰.

2. Research Methodology

The research is basically a survey on employee engagement in hospitals of Nagapattinam district in Tamil Nadu. All the available hospitals (11 public and 80 private) were selected as the population and stratified random sampling was used to select the sample hospitals. The stratification was based on Taluks, type of towns (big and small) and also type of hospitals. More than 38% hospitals were

covered. While selecting the respondents from each hospital, disproportionate convenience sampling technique was used and the sample size is 506. The sample size across hospitals is shown in Table 1.

The standard questionnaire developed by IES (Institute for Employment Studies, UK) with 48 statements and Customer Impact (08 items) from UTRECHT Work Engagement Scale as under⁴¹ are used with prior permission. These statements solicit the perception of employees on various factors influencing employee engagement.

- My Job (15 items)
- My Superior (10 items)
- My Coworkers (09 items)
- My Organisation (14 items)
- My Customer (08 items)

The final questionnaire is a combination of two standard questionnaires. The reliability was tested for all five constructs and the same is shown in Table 2.

Table 2. Reliability statistics

Construct	Cronbach's Alpha	No. of Items
My Job	.883	15
My Supervisor/Manager	.886	10
My Team/My Coworkers	.835	9
My Organisation	.889	14
My Customer	.884	8

Source: Primary Data computed in SPSS 20.0

Table 1. Sample size across the region and the type of hospitals

Taluks	No. of Hospitals		No. of Respondents		Total	%
	Public	Private	Public	Private		
Nagapattinam	1	7	48	92	140	27.67
Keelvelur	1	3	11	32	43	8.498
Vedaranyam	1	3	14	38	52	10.28
Vailankanni	1	3	9	27	36	7.115
Tharangambadi	1	2	8	20	28	5.534
Sirkazhi	1	3	13	43	56	11.07
Mayiladuthurai	1	7	39	112	151	29.84
Total	7	28	142	364	506	100

Source: Primary Data computed in SPSS 20.0

The Structured questionnaire used to collect primary data, consisting of 56 statements with 5 point scale response. Five response options from 5=strongly agree to 1= strongly disagree were given to rate the statements. The first part of the questionnaire solicited demographic information of respondents.

3. Data Analysis

3.1 Procedure

Entire sample and the data were analyzed with Statistical Package for Social Sciences (SPSS 20.0) by using

techniques like Descriptive statistics, Correlation analysis and Multiple Regression. The mean of the questionnaire items is used to arrive at the average engagement of the employee⁴². The same is detailed in Table 3.

3.2 Frequencies

The frequencies are grouped into low, medium and high categories²⁴, based on the distribution of composite score⁴³. The total composite score is used as an indicator of the overall level of engagement. The high engagement group are individuals who obtained 4.5 and above in the composite score. Moderately engaged are those scoring between

Table 3. Descriptive statistics

S. No	Demographic factors	N = 506	Min	Max	Mean	Median	SD	
1	Type of Hospitals	Public	142	3	5	3.926	3.86	.493
		Private	364	1.68	4.86	3.971	3.94	.482
2	Gender	Male	204	1.3	4.86	3.982	4.1	.550
		Female	302	1.68	5	3.959	4	.444
3	Age in Years	20-25	77	3.29	4.77	4.037	4.02	.386
		26-30	99	2.64	4.73	3.997	4.07	.457
		31-35	88	2.95	4.79	3.834	3.87	.472
		36-40	68	2.91	4.64	3.863	3.87	.438
		41-45	83	1.3	5	3.902	4	.680
		46-50	46	3.39	5	4.033	3.98	.336
		Above 51	45	3.23	4.77	4.156	4.27	.397
4	Designation	Doctor	35	3.29	4.68	3.991	4.02	.492
		Nurse/Nursing Assts	247	1.3	5	3.948	4	.486
		Technical	57	1.73	5	3.988	4.13	.559
		Pharmacists	55	3	4.7	3.938	3.98	.444
		Admin/ Sup/ Mgrs	62	3.11	5	4.016	3.99	.471
5	Marital Status	Others	50	2.98	4.73	3.901	3.87	.460
		Married	411	1.3	5	3.957	4	.506
6	Salary	Single	95	2.98	5	3.962	3.98	.381
		< 5 K	83	2.64	4.63	4.040	4	.363
		5 - 10 K	72	3	4.68	4.148	4.29	.357
		10 - 15 K	44	3.09	4.77	4.043	4.18	.466
		15 - 20 K	65	1.3	4.73	3.683	3.68	.724
		20 - 25 K	46	3.25	4.71	3.985	3.98	.394
		25 - 50 K	171	2.91	5	3.888	3.88	.489
7	Qualification	Above 50 K	25	3.63	4.59	4.142	4.25	.379
HSC/SSLC		86	2.64	4.77	4.184	4.30	.379	
Diploma		269	3	5	3.902	3.91	.406	
Degree		72	2.95	5	3.964	3.99	.552	
PG		40	1.3	4.61	3.642	3.86	.789	
8	Experience in Years	Professional	39	3.45	4.77	4.160	4.28	.387
		< 2 yrs	84	3.29	4.77	4.028	4.01	.379
		2-5 yrs	81	3	4.68	4.076	4.13	.399
		6-10 yrs	143	1.3	4.79	3.858	3.91	.592
		11-15 yrs	95	2.91	5	3.862	3.86	.473
		16-20yrs	33	2.96	4.57	3.959	3.96	.408
		21-25 yrs	34	3.39	4.7	3.997	3.95	.386
Above 26	36	3.23	5	4.144	4.18	.475		

Average composite score 3.975

Source: SPSS 20.0 output

3.5 and 4.499 and low engagement or disengagement as those scoring less than 2.49. The employees who are neither engaged nor disengaged can be called as neutral with a score between 2.5 and 3.49. The public hospitals has an engagement level of 71.13% of their employees (both high and medium combined) where as the private hospitals has an engagement level of 85.71% of their employees. Though the highly engaged were only 11.27% and 10.71% respectively, the moderately engaged group is more (75%)

in private hospitals. The .82% of disengagement is also present in private hospitals. The 28.87% and 13.46% neutral employees are present in GHs and PHs respectively. The details are shown in Table 4.

3.3 Managerial Implications

The Employee Engagement Score based on various demographic groups has given a clear idea about the status of employee engagement among the employees of

Table 4. Demographic factors, engaged employees and the engagement level

Demographics	Frequency range	Disengaged		Neutral		Moderately Engaged		Highly/Fully Engaged		Engaged Employees	
		< 2.49	%	2.5 -3.49	%	3.5-4.49	%	4.5+	%	Total	%
Type	GH		0.00	41	28.87	85	59.86	16	11.27	142	71.13
	Private	3	0.82	49	13.46	273	75.00	39	10.71	364	85.71
Gender	Male	2	0.98	41	20.10	137	67.16	24	11.76	204	78.92
	Female	1	0.33	49	16.23	221	73.18	31	10.26	302	83.44
Age in years	20-25		0.00	9	11.69	58	75.32	10	12.99	77	88.31
	26-30		0.00	16	16.16	69	69.70	14	14.14	99	83.84
	31-35		0.00	25	28.41	58	65.91	5	5.68	88	71.59
	36-40		0.00	16	23.53	47	69.12	5	7.35	68	76.47
	41-45	3	3.61	17	20.48	48	57.83	15	18.07	83	75.90
	46 -50		0.00	1	2.17	44	95.65	1	2.17	46	97.83
	51 and above		0.00	6	13.33	34	75.56	5	11.11	45	86.67
Status	Single		0.00	14	14.74	71	74.74	10	10.53	95	85.26
	Married	3	0.73	76	18.49	287	69.83	45	10.95	411	80.78
Designation	Nursing Asst	2	0.81	44	17.81	177	71.66	24	9.72	247	81.38
	Technical	1	1.75	9	15.79	40	70.18	7	12.28	57	82.46
	Doctor		0.00	6	17.14	24	68.57	5	14.29	35	82.86
	Pharmacists		0.00	11	20.00	39	70.91	5	9.09	55	80.00
	Admin/Sup/ Mgr		0.00	10	16.13	43	69.35	9	14.52	62	83.87
	Others		0.00	10	20.00	35	70.00	5	10.00	50	80.00
Salary	Below Rs 5 K		0.00	6	7.23	71	85.54	6	7.23	83	92.77
	Rs 5-10 K			3	4.17	60	83.33	9	12.50	72	95.83
	10-15 K			11	25.00	26	59.09	7	15.91	44	75.00
	15-20 K	3	4.62	24	36.92	31	47.69	7	10.77	65	58.46
	20 - 25 K			6	13.04	37	80.43	3	6.52	46	86.96
	25 K -50 k			40	23.39	111	64.91	20	11.70	171	76.61
	50 K and above			0	0.00	22	88.00	3	12.00	25	100.0
Qualification	10/+2		0.00	7	8.14	66	76.74	13	15.12	86	91.86
	Diploma			51	18.96	199	73.98	19	7.06	269	81.04
	Degree			18	25.00	41	56.94	13	18.06	72	75.00
	PG Degree	3	7.50	12	30.00	20	50.00	5	12.50	40	62.50
	Prof Degree			2	5.13	32	82.05	5	12.82	39	94.87

(continued)

Experience in years	< 2			10	11.90	66	78.57	8	9.52	84	88.10
	2- 5			8	9.88	61	75.31	12	14.81	81	90.12
	5-10	3	2.10	34	23.78	90	62.94	16	11.19	143	74.13
	10-15			25	26.32	63	66.32	7	7.37	95	73.68
	16 -20			5	15.15	26	78.79	2	6.06	33	84.85
	21-25			4	11.76	27	79.41	3	8.82	34	88.24
	26 and above			4	11.11	25	69.44	7	19.44	36	88.89
		2.4	0.97	18.9	16.88	75.3	71.29	11.6	11.22		82.51

Engagement Level : 82.51 %

Source: SPSS 20.0 output

hospitals in Nagapattinam district. Though the current level of engagement is higher than the global industrial average, the moderately engaged employees are more. These employees can be made engaged by addressing their concerns which will considerably increase employee engagement. Further there is no actively disengaged person among these hospitals which may have to be addressed cautiously. Simply this cannot be taken as a positive sign because it may be due to hiding of certain opinions by respondents. However the other information brought out by the descriptive will help in understanding their concerns.

The overall mean employee engagement scores is 3.975 and shows very less significant differences among various mean EE scores based on the demographics. So, it may be concluded that the demographic characteristics do not differentiate the employee engagement scores of the hospital employees.

As per Gallup report 2014 the highly engaged employees across India is only 9% (with 1% variation)⁴⁴. This study has shown the highly/fully engaged as 11.22%, which is corresponding (Slightly higher) to the previous result. Also in public health facilities as per a study 74% employees are positively engaged with their work in spite of various problems in public health care in India and nurses (75%) are more engaged than physicians (69%)⁴⁵. But this study shows better results with nurses (81.38%) and physicians (82.86%) having better engagement levels. Also among the hospital managers of the same area, a previous study reported an engagement level of 72%⁴⁶ where as this study reports 83.87% engagement level which is also better. It may be concluded that up to this basic analysis carried out the employee engagement level of hospitals in Nagapattinam district is good.

All employee engagement constructs have positive relationship with employee engagement scores. By

improving the perception of employees of the hospitals related to any of the constructs there is a possibility of increasing the employee engagement level. Also among the three demographic variables considered age has no relationship with the constructs and the employee engagement score. Even the mild relationship of salary and experience may not influence the outcome score. But age has a relationship with salary and experience. Age having a strong relationship is obvious because as the age increases the experience also increases. As far as salary is concerned the relationship may say that as the experience increases, the salary may also increase. The proportion of increase in salary based on experience may vary between hospitals and it may be the reason for the moderately strong relationship.

3.4 Multiple Regressions

Multiple regressions are used to predict the single dependent variable with the independent variables whose values are known.

The regression outputs table 5, 6 and 7 shows that all five independent variables My Customer, My Team, My Job, My Supervisor and My Organisation are entered simultaneously for the analysis in enter method. It is also seen that the R square value is 0.729 which shows that the five independent variables in this model account for 72.9% variance in the dependant variable employee engagement. Clearly this is a good model. From the coefficients table the values under column B, the regression coefficients can be used to construct an Ordinary Least Squares equation with the constant to predict employee engagement. Also with the help of *t* values it can be predicted that the construct My Customer has the highest influence on employee engagement among the five independent variables. The hypothesis Employee Engagement Score is positively related to My Customer, My Team,

Table 5. Variables Entered/Removed (b)

Model	Variables Entered	Variables Removed	Method
1	MY Customer , My Team, My Job, My Supervisor, My Organisation(a)		Enter

a All requested variables entered.
b Dependent Variable: EE Score

Table 6. Model summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.854(a)	.729	.726	.28423

a Predictors: (Constant), Customer Impact, My Team, My Job, My Supervisor, My Organisation

Table 7. Coefficients(a)

Model		Unstandardized Coefficients		Standardized Coefficients	T	Sig.
		B	Std. Error	Beta		
1	(Constant)	.287	.103		2.773	.006
	My Job	.192	.028	.219	6.900	.000
	My Supervisor	.143	.025	.182	5.652	.000
	My Team	.212	.027	.231	7.840	.000
	My Organisation	.161	.028	.200	5.712	.000
	My Customer	.207	.022	.270	9.470	.000

a Dependent Variable: EE Score

My Job, My Superior and My Organization is tested by the *p* value⁴⁷. All these values are significant at 5% significance level (Less than .05). Thus the hypotheses that these employee engagement constructs positively predict employee engagement of hospital employees are proved to be true.

4. Implications

From the analysis it is clear that the observed constructs predict employee engagement of hospital employees. It is worth to note that the perceptions about the customers and team members have the most influence on employee engagement. Because of the typical work conditions in a

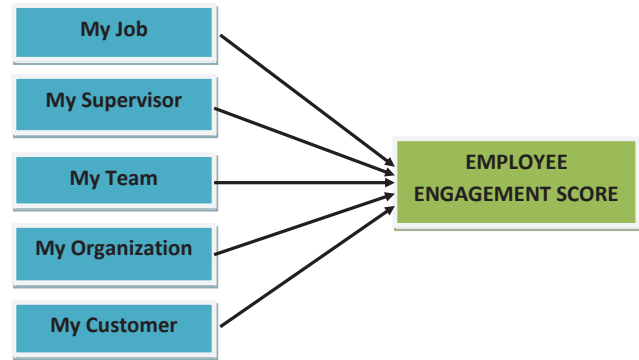


Figure 1. Proposed Strategic model.

hospital the customers (patients and their relatives) are not easily satisfied and this reflects on their perceptions about the hospital and service offered. Also these feedback and opinions affect the employees and their engagement. The team members can help each other in satisfying the customers. The nature of the job and the attachment with the organization also help in increasing employee engagement. Finally the superiors play a major role in improving engagement. So providing means to increase customer satisfaction has two benefits. It increases the engagement of employees and also the image of the hospital and the services offered. The aim to achieve highest customer satisfaction will better the functioning of hospital and employees in many areas, which is the ultimate aim of any management.

4.1 Proposed Model

A proposed strategic model is shown in Figure 1.

5. Conclusion

The model in Figure 1 based on the regression results show the influence of the independent variables on the dependent variable employee engagement. By fine tuning any of the variables the employee engagement can be increased. The most significant predictor of employee engagement is the Customer, followed by the Team where the employee is a member. The various managerial implications discuss many ways to increase employee engagement in order to develop rural health care. The top-performing organizations know that an Employee Engagement strategy which is linked to bottom-line out-comes will help them⁴⁸. To increase engagement the management should ensure that the hospital environment concentrates on fair and prompt service to their customers first and then the team mem-

bers so that an employee can mingle with and deliver best services. It becomes essential to implement strategies that will have a positive effect on creating an engaged workforce. This is a long term goal which needs continuous measuring of employee engagement and modifying the existing factors continuously to achieve the highest level of engaged employees which will also increase the bottom line profits of an organization.

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