Original Research Article

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Is parental satisfaction important in a public hospital NICU

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ABSTRACT

Background: NICU in public hospitals in developing countries face immense challenges in the form of overcrowding, less manpower and lack of equipment. Patient care is the prime responsibility of the health care workers. Parental satisfaction although an important part of health care is not given its due importance. There are very few studies analysing parental satisfaction of NICU babies in the developing countries including India. The objective of this cross-sectional study was to 1. Assess satisfaction regarding medical treatment 2. To assess satisfaction regarding General environment. Take suggestions regarding improvement in services.

Methods: A total of four hundred and fifty-nine parents were interviewed. They were parents of babies admitted in NICU, those coming for follow up in the well-baby clinic. Parents of babies who died or left against medical advice were interviewed at the time of leaving the hospital or telephonically later. Results were analysed statistically using the student chi square test.

Results: 92.6% of the respondents were satisfied with the medical services and 96.6% were satisfied with the general environment. Reasons for lack of satisfaction were analysed. Nuclear families, urban background, adverse outcome of the baby were the Key factors. Parents gave pertinent suggestions like improvement in cleanliness, more beds, increase in medical staff, better availability of medicines and blood products.

Conclusions: There is need to develop standardised protocols to analyse parental satisfaction. This will lead to better understanding of parental expectations and help to improve patient care.

Keywords: Parental satisfaction, NICU, Public hospital, Developing countries

INTRODUCTION

NICU in public hospitals in India are typically overflowing with patients. Neonatal mortality as per 2018 UNICEF report is still 25.4 per 1000 live births. One level III NICU may be the only good facility catering to Newborns in a couple of districts. The onus is on managing sick newborns referred from Government

facilities or referred from private hospitals where cost of treatment may be beyond the means of the parents. Parental satisfaction takes a back seat as the caregivers are stretched to their limit and managing the influx of babies becomes the prime responsibility.

Our NICU in GSVM Medical college caters to the city of Kanpur and adjoining districts. It is a level 111 NICU

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with 11 B accreditation by the National Neonatology forum. It is a thirty-two bedded facility with about three thousand admissions per year. In this kind of scenario, we thought that getting a feedback from the parents would be helpful in making us look into this important aspect of care and help us in improving our services. This aspect of patient care has herethro not been looked into NICU's in the developing countries and more so in India. There are many studies on parent satisfaction in NICU's in Europe. Many questionnaires have also been validated. These have been used for improving neonatal services.

Objective

To assess satisfaction regarding medical treatment. To assess satisfaction regarding General environment. Take suggestions regarding improvement in services.

METHODS

This is a cross sectional study carried out in the NICU, Department of Pediatrics, GSVM Medical college, Kanpur from January 2018 to March 2018. This study was undertaken after permission from the ethics committee of the college. This was duly registered with the ICMR trial number CTRI/2018/01/011485. Sample size was calculated by taking the minimum sample size at 5% level of significance, using the formula:

$$N=4pq \div d^2$$

where p = prevalence of level of patient satisfaction.

q=100-p, d=absolute precision =5%. Assuming the prevalence of patient satisfaction to be 50%, the minimum sample size was calculated to be 400. Interview of the parents was conducted by a medical social worker who was not involved in the care of the patients. A pretested format in which details of demographic status, weight, maturity of the baby, duration of stay in hospital along with pertinent questions regarding overall care, General environment, satisfaction from doctors, nurses, was asked. Signed informed consent was obtained from each participant before they participated in the study. Participants were informed of their rights to refuse participation in the study. The anonymity of participants was maintained, and assurance was given that all information would be treated in absolute confidence. Interview of some expired and LAMA patients was done telephonically as it was not possible to take a feed back at that point of time. The results were analysed statistically using the students chi square test. Software used was IBM Statistical package for social sciences (SPSS) Statistics for Windows, Version 22.0. (Armonk, NY)

RESULTS

There were total of four hundred and fifty-nine parents who were interviewed. One hundred and forty-one of those whose children were admitted at that time.

Table 1: Determinants of health care.

	Not Satisfied		Satisfied			
Determinants	number =32	percentage 6.9%	number=427	percentage 93%	P value	
Residence						
Rural	6	18.75%	211	49.4%	0.0008	
Urban	26	81.25	216	50.88 %		
Type of family						
Joint	7	21.8%	268	62.76%	< 0.000	
Nuclear	25	78.1%	159	37.23%		
Days in NICU						
<3	26	81.25%	93	21.77%	0.008	
4-7	6	18.75%	147	34.42%		
8-14	0	0%	109	25.52%		
15-30	0	0%	70	16.39%		
>30	0	0%	8	1.8%		
Outcome						
Discharged	8	25%	253	59.25%	< 0.000	
LAMA	3	9.37%	24	5.62%		
Expired	15	46.8%	15	3.51%		
Admitted	6	18.75%	135	31.6%		
Brought from						
Private hospital	5	15.62%	115	26.93%	0.16	
Government	27	84.37%	312	73.06		
Gender						
Male	21	68.62%	283	66.27%	0.94	

Continued.

Determinants	Not Satisfied		Satisfied		P value	
Female	11	34.37%	144	33.72%		
Maturity						
Term baby	15	46.8%	280	65.5%	0.033	
Preterm baby	17	53.12%	147	34.42%		
Income						
<5	5	15.6%	131	30.67%		
5-10	20	62.5%	192	44.96%	0.34	
10-20	6	18.75%	71	16.62%		
Income is in Ind	Income is in Indian Rupees- less than 5000 per month, 5-10 thousand, 10-20 thousand					

Table 2: Determinants of satisfaction with general environment.

Number -15 3,2% Number -445 96.9%		Not Satisfied		Satisfied	Satisfied			
oint 3 20.00% 274 61.5 % 0.001 Nuclear 12 80.00% 171 38.5 % Days in NICU 33 10 66.66% 104 23.3% <0.001 1-7 5 33.33% 151 33.93% 3-14 0 109 24.49% 5-30 0 71 15.95% -30 0 10 2.24% Dutcome Discharged 1 6.66% 255 57.5% <0.001 AMA 5 33.33 29 6.51% Expired 4 26.6% 20 4.94% Admitted 5 33.3% 138 31.01% Gender Male 8 53.3% 296 66.51% 0.288 Female 7 46.6% 149 33.48% Waturity 7 46.6% 290 65.16% <th>Determinants</th> <th>Number -15</th> <th>C</th> <th>Number-445</th> <th>O</th> <th>P value</th>	Determinants	Number -15	C	Number-445	O	P value		
Nuclear 12 80.00% 171 38.5 % Days in NICU 3 10 66.66% 104 23.3% <0.001 1-7 5 33.33% 151 33.93% 3-14 0 109 24.49% 5-30 0 71 15.95% 30 0 0 10 2.24% Dutcome Discharged 1 6.66% 255 57.5% <0.001 AMA 5 33.33 29 6.51% Expired 4 26.6% 20 4.94% Admitted 5 33.3% 138 31.01% Gender Male 8 53.3% 296 66.51% 0.288 Pemale 7 46.6% 149 33.48% Valurity Ferm 9 60% 290 65.16% 0.679 Preterm 6 40% 155 34.83% Residence Jrban 9 60.00% 232 52.13% 0.548 Residence Jrban 9 60.00% 213 47.36% Income	Type of family							
Days in NICU C3	Joint	3	20.00%	274	61.5 %	0.001		
10	Nuclear	12	80.00%	171	38.5 %			
1-7 5 33.33% 151 33.93% 3.93% 3.914 0 109 24.49% 3.93%	Days in NICU							
109 24.49%	<3	10	66.66%	104	23.3%	< 0.001		
15.30	4-7	5	33.33%	151	33.93%			
Dutcome Discharged 1 6.66% 255 57.5% <0.001 AMA 5 33.33 29 6.51% Expired 4 26.6% 20 4.94% Admitted 5 33.3% 138 31.01% Gender Male 8 53.3% 296 66.51% 0.288 Female 7 46.6% 149 33.48% Maturity Ferm 9 60% 290 65.16% 0.679 Preterm 6 40% 155 34.83% Residence Urban 9 60.00% 232 52.13% 0.548 Rural 6 40.00% 213 47.36% Income RRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	8-14	0		109	24.49%			
Dutcome Discharged 1 6.66% 255 57.5% <0.001 AAMA 5 33.33 29 6.51% Expired 4 26.6% 20 4.94% Admitted 5 33.3% 138 31.01% Gender Wale 8 53.3% 296 66.51% 0.288 Gemale 7 46.6% 149 33.48% 33.48% Waturity Germ 9 60% 290 65.16% 0.679 Preterm 6 40% 155 34.83% Residence Urban 9 60.00% 232 52.13% 0.548 Rural 6 40.00% 213 47.36% Income 135 KRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34	15-30	0		71	15.95%			
Discharged 1 6.66% 255 57.5% <0.001	>30	0		10	2.24%			
AMA 5 33.33 29 6.51% Expired 4 26.6% 20 4.94% Admitted 5 33.3% 138 31.01% Gender Male 8 53.3% 296 66.51% 0.288 Gemale 7 46.6% 149 33.48% Maturity Ferm 9 60% 290 65.16% 0.679 Preterm 6 40% 155 34.83% Residence Urban 9 60.00% 232 52.13% 0.548 Rural 6 40.00% 213 47.36% ncome 135 Rs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	Outcome							
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Admitted 5 33.3% 138 31.01% Gender Male 8 53.3% 296 66.51% 0.288 Female 7 46.6% 149 33.48% Maturity Ferm 9 60% 290 65.16% 0.679 Preterm 6 40% 155 34.83% Residence Urban 9 60.00% 232 52.13% 0.548 Rural 6 40.00% 213 47.36% Income 135 RRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	LAMA	5	33.33	29	6.51%			
Admitted 5 33.3% 138 31.01% Gender Male 8 53.3% 296 66.51% 0.288 Female 7 46.6% 149 33.48% Maturity Ferm 9 60% 290 65.16% 0.679 Preterm 6 40% 155 34.83% Residence Urban 9 60.00% 232 52.13% 0.548 Rural 6 40.00% 213 47.36% Income 135 RRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	Expired	4	26.6%	20	4.94%			
Male 8 53.3% 296 66.51% 0.288 Female 7 46.6% 149 33.48% Maturity Germ 9 60% 290 65.16% 0.679 Preterm 6 40% 155 34.83% Residence Jrban 9 60.00% 232 52.13% 0.548 Rural 6 40.00% 213 47.36% Income 135 CRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	Admitted	5	33.3%	138	31.01%			
Female 7 46.6% 149 33.48% Maturity Ferm 9 60% 290 65.16% 0.679 Preterm 6 40% 155 34.83% Residence Urban 9 60.00% 232 52.13% 0.548 Rural 6 40.00% 213 47.36% Income 135 RRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	Gender							
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Germ 9 60% 290 65.16% 0.679 Preterm 6 40% 155 34.83% Residence Jrban 9 60.00% 232 52.13% 0.548 Rural 6 40.00% 213 47.36% Income 135 135 KRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	Female	7	46.6%	149	33.48%			
Preterm 6 40% 155 34.83% Residence Urban 9 60.00% 232 52.13% 0.548 Rural 6 40.00% 213 47.36% Income 135 KRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	Maturity							
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Urban 9 60.00% 232 52.13% 0.548 Rural 6 40.00% 213 47.36% Income 135 CRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	Preterm	6	40%	155	34.83%			
Rural 6 40.00% 213 47.36% Income 135 CRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs10-20,000 3 20.00% 34 16.62%	Residence							
Income 135 KRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	Urban	9	60.00%	232	52.13%	0.548		
KRs 5000 4 26.66% 202 30.33% 0.939 Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	Rural	6	40.00%	213	47.36%			
Rs 5-10,000 8 53.3% 74 45.39% Rs 10-20,000 3 20.00% 34 16.62%	Income			135				
Rs10-20,000 3 20.00% 34 16.62%	<rs 5000<="" td=""><td>4</td><td>26.66%</td><td>202</td><td>30.33%</td><td>0.939</td></rs>	4	26.66%	202	30.33%	0.939		
<u>'</u>	Rs 5-10,000	8	53.3%	74	45.39%			
20,000 0 0% . 8.63%	Rs10-20,000	3	20.00%	34	16.62%			
	>20,000	0	0%		8.63%			

Two hundred and sixty parents were interviewed when they came in follow up clinic. Thirty-three parents who chose to take their child against medical advice. Twentyfive parents whose children died in the NICU.

Of the total no of parents interviewed to assess their response to the medical treatment four hundred and twenty-seven were satisfied with the treatment as compared to thirty-two who were not satisfied. We did a detailed demographic analysis of the factors influencing this opinion. Both the groups were similar as far as

religion, gender, consanguity, income, referral from private or Government Hospital. (Table 1). However, patients coming from rural areas and from joint families were more satisfied as compared to their counterparts. Parents whose babies had a shorter stay were more likely to be unsatisfied as compared to those having a stay more than three days. Parents who had preterm baby also were more unsatisfied as compared to those who had a term baby. In the outcome those parents who left against medical advice or whose babies died were unsatisfied as compared to those whose babies were still admitted or had been discharged.

Table 3: Satisfaction in relation to outcome.

	Admitted	N- 141	Discharged	N- 260	Lama	N-33	Expi red	N-25	P value
	N=141	%	n- 260	%	n-33	%	n-25	%	
Satisfied with car	·e								
Yes	135	95.7	253	97.3	24	72.7	15	60	< 0.001
No	6	4.3	7	2.7	9	27.3	10	40	
Satisfied with env	vironment								
Yes	140	99.3	255	98.1	29	87.9	20	80	< 0.001
No	1	0.7	5	2	4	12.1	5	20	
Satisfied with Dr	S.								
Yes	141	100	260	100	33	100	25	100	< 0.001
No	0	0	0	0	0	0	0	0	
Satisfied with nu	rses								
Yes	140	99.3	203	78.1	29	87.9	24	96	< 0.001
No	1	0.7	57	21.9	4	12.1	1	4	
Were you kept informed									
Yes	138	97.8	260	100	33	100	25	100	< 0.001
No	3	2.2	0	0	0	0	0	0	

In the analysis of the results of satisfaction with the general environment four hundred and forty-four were satisfied as compared to fifteen who were not. There was no relationship with religion, gender, place of residence urban or rural, family income, referral place, or maturity of the baby (Table 2). Only those from nuclear families, those who had a short stay and those whose babies had died or those who had left against medical advice were unsatisfied.

Table 4: Suggestions from parents (n=254).

Suggestions/problems	No.	Percentage
More beds	23	9.05
Faster admission process	19	7.48
More doctors	31	12.20
More staff	27	1062
More time to see baby	7	2.75
More space for babies	13	5.11
More availability of medicine and facilities	33	5.11
Improve cleanliness	39	15.35
Washroom for attendants	28	11.02
Accommodation for attendants	32	12.59
Easy availability of blood products	02	0.78

There was total satisfaction with the doctors and a high level of satisfaction with the nursing staff across all groups. There was similarly unanimity over being informed about the condition of the baby. (Table 3) In the list of suggestions given by the parents more cleaniness, better amenities like washrooms, accommodation, more doctors and increase in number of beds, easy availability

of medicines and blood products was mentioned (Table 4).

DISCUSSION

It was heartening to note that 92.6% of parents were satisfied with the medical services and 96.6% were satisfied with the general environment. Typically, the general impression amongst most people is that large majority of patients are unsatisfied with government hospitals. And private hospitals provide better care. In our study inspite of constraints of space and equipment we were able to satisfy a large majority of parents. In comparison to a study carried out by Sankar et al in Delhi the level of satisfaction ranged from 70.2 % for services offered by the health care system to 80 % for the competence for the health staff.9 Analyzing the reasons for lack of satisfaction, nuclear families, urban background, adverse outcome of the baby were the Key factors. It is understandable to be unsatisfied if you have an adverse outcome of your baby. Good communication is the key to parental satisfaction. 10,11,13,17 Majority of parents were satisfied with our interaction. This study gives us an insight about the perception parents have about our unit. However, because of obvious reasons we have not been able to interview sufficient number of parents whose babies died or those who left against medical advice. This group would have changed the percentages to some extent but the overall result would be the same. There is need to develop a standardized evaluation tool to evaluate parental satisfaction as is practiced in many western hospitals, so that parents feel involved in the care of their babies and their input will help to improve the standard of care in the NICU. 16,18

In retrospect analyzing the limitations of this study we feel that this should be on going and not limited to a short

period. Interviewing patients who have left the hospital due to lack of satisfaction or death of the child is very sensitive and one telephone or a hasty interview at the time of leaving the hospital may not give the real picture.

CONCLUSION

Patient satisfaction is an important aspect of medical treatment. There are very few studies in the developing countries and none in NICU'S to assess the satisfaction of parents. Inspite of overcrowding and constraints of staff and equipment a large majority of parents were satisfied with the medical treatment and general environment. They gave good suggestions regarding improvement in infrastructure and increase in number of medical personnel. There is need to develop standard protocols to assess parental satisfaction.

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Ethical approval: The study was approved by the

Institutional Ethics Committee

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