Maternal Stress Of Hospitalized Children In A Hospital Of Rupandehi, Nepal

Dhungana M¹, Kachapati A²

¹ Lecturer, Department of Psychiatry, Devdaha Medical College and Research Institute, Rupandehi
² Lecturer, Universal College of Nursing Sciences, UCMS, Teaching Hospital, Bhairahawa, Nepal

E-mail *Corresponding author: drdhungana3536@hotmail.com

Abstract

Introduction: Illness and hospitalization are often critical events that a child is faced with and the stress of it can affect all family members. Maternal stress and anxiety can also affect the child in two ways, transferring stress to the child and interfering with the mother’s ability of childcare. Researcher sought to find out the maternal stressors of hospitalized children in a hospital of Nepal.

Material And Method: A descriptive cross-sectional study was conducted to find out the maternal stressors of hospitalized children among one hundred and five mothers selected through non probability purposive method. The data was collected by using semi-structured interview schedule and data was analyzed by using descriptive and inferential statistics with SPSS software version 16.

Results: The findings of the study revealed that more than half of the mothers 62.8%, 58.1%, 63.8%, 90.4%, 88.6%, 78%, 83.8% and 87.7% had very high stress related to child factors; child appears lethargic, weak and pale, prolongation of hospitalization, uncertain try about future of child’s medical condition, fear of relapse, child irritability and crying, in concern about IV fluids and tubes connected, child’s pain, and about laboratory and imaging respectively. Majority of mothers had stress related to social and economic aspects, 59% for failure to provide comfort to other children due to child illness, 82.8% had stress regarding being away from work and living place. Regarding stressors related to environmental factors, Majority 54.2% mothers had very high stress from equipments, 84.7% mothers had very high stress on unfamiliar environment, 68.5% had very high stress for lack of adequate sanitation and air pollution, 59% had very high stress that no room to rest for visitor. Regarding stressors related to hospital staffs, 78% mothers had very high stress for giving the responsibility for monitoring IV fluids, 74.2% had very high stress for turning over responsibility for collecting samples to mothers by nursing staffs, 60.9% mothers had very high stress on lack of attention from nursing staffs about mother’s problem and 68.5% had very high stress on lack of proper nutrition for hospitalized children.

Conclusion: Based on the study findings, it is concluded that mothers were passionate in taking care of their child. Most mothers had recognized that illness and hospitalization of their children had an overwhelming psychological and emotional impact on their own behavior and they did not have enough control over their reactions. Therefore, special attention should be given to identify the stressors in nursing care, planning and parents’ education, moving stressors and treatment in the same direction and the factors that can reduce the mother’s ability to provide childcare and delay in treatment progress.

Keywords: Maternal Stress, Hospitalized Children, Nepal

INTRODUCTION
Parents have an important role in the promotion of their children's health, being the primary agents involved in direct care, providing access to health services and modeling attitudes and behaviors that influence children's wellbeing.¹
Maternal stress and anxiety can also affect the child in two ways, transferring stress to the child and interfering with the mother’s ability of childcare. Currently, in many countries, given the importance of family-centered care, the mother stays at the child’s bedside for the entire time of hospitalization and participates in the process of taking care of the child.²

Having a child hospitalized is a stressful event for parents who often experience anxiety and depression during the period of hospitalization. According to classical definition³, stress is a non-specific response of the body to any excessive environmental request. The reaction to stress is not directly related to the exposure to stressors but is mediated by the individual emotional response. Stress is, in fact, a process embracing several components including stressors, defined as events that pose a challenge to the subject, psychosocial mediators, constructs that enable the subject to evaluate the nature of the situation, and the stress response, typically a measure of the emotional reaction elicited in response to the stressor.⁴

Many aspects of the parents’ life will change during hospital stay, including their natural needs, and social and economic issues, which can cause stress and anxiety for the parents.⁵

Feelings of stress and anxiety are often associated with the lack of information on diseases and medical procedures. The pain is caused by the imposed treatments, unfamiliarity with the hospital rules and regulations, unfriendly staff and being afraid of asking questions.⁶ Based on previous studies, factors that cause stress in mothers of hospitalized children are environmental factors, managerial factors; socioeconomic factors and factors that are related to the child’s circumstances.⁷ A higher level of family stress can reduce the ability of the mother to cope with problems.⁸

Nurses and parents have different perceptions of stressors in the child’s admission to a hospital. In other words, efforts that the hospital staff makes to reduce stress for parents may not be effective. It is not helpful and increases their stress levels too.⁹

MATERIAL AND METHOD
A descriptive cross-sectional design was adopted to find out the maternal stress of hospitalized children among mothers. The study was conducted in NICU and pediatric wards of Devdaha Medical College and Research Institute, Rupandehi, Nepal among 105 mothers, were selected in the study sample through non probability purposive technique. Semi-structured interview schedule was developed by researchers by reviewing the related literatures and consulting with the subject experts. The researchers reached every ward and obtained the written consent of each mothers after a day of admission for enrollment in this study with semi-structured interview schedule. Data collection was done within 3 months (September to November 2018).

The interview schedule was consisted of two parts: Part I: related to socio-demographic variables and Part II: related to stressors. The study was conducted from September to November 2018 in Devdaha Medical College, and Research Institute, Rupendehi, Nepal. The exclusion criteria were those who were not willing to participate. All the collected data were analyzed by using descriptive statistics and inferential statistics with Statistical Package for Social Sciences (SPSS) software version 16.

RESULT
Most (33.6%) of the mothers were between 24-29 years of age, 29.5% mothers belong to Brahmin/Chhetri by their caste, 67.7% mothers were residing in joint families, the education level 81.9% mothers were literate, 79.1% mothers had informal occupation. One hundred and two (97.1%) of the mothers had their husbands. Regarding their husband’s education 80.4% were literate, 55.8% had formal occupation. Regarding the number of children, 39.1% of the mothers had only one child, 43.8% had two children and 17.1% had three or more children. Age of admitted children; 54.2% children were under one year old, and 19.3% children were above 6 years old. Among them 63.8% children were male and 36.2% were female, 34.7% had one day of hospitalization and 20% were hospitalized for five days or more.
Regarding the number of hospitalizations, 45.4% were hospitalized for the first time and 68.6% were admitted as emergency inpatients.

As per stressors related to child factors (Table 1), 62.8% mothers had very high stressors that the child appears lethargic, weak and pale, 58.1% had very high in prolongation of hospitalization, 45.7% had very high that the child’s enabled to eat. Regarding fear of death 38% had very high stress, 63.8% had uncertain try about future of child’s medical condition, and 90.4% had stress related to fear of relapse. Around 88.6% mothers had very high stressors related to child irritability and crying, 78% mothers had very high stressors in concern about IV fluids and tubes connected, 83.8% had very for child’s pain and 87.7% had very high concern about laboratory and imaging.

As per the table 2 stressors related to social and economic aspects, 59% mothers had very high stressors for failure to provide comfort to other children due to child illness, 38% mothers had average stress to problems related drug availability, 44.7% mothers had very high stress for inability to pay the costs of treatment and care. Majority 68.8% mothers had no stress related to concern about academic and school, 55.2% mothers feel stress of other children having the same disease. Regarding fear of job loss because of the child’s disease 94.2% had no stress and 82.8% mothers had very high stress regarding being away from work and living place.

Regarding stressors related to environmental factors (Table 3), 45.7% mothers had average stress for noise pollution, 89.6% mothers had no stress for crowded room and the large number of children, 29.5% mothers had average stress for uncomfortable beds. Majority 54.2% mothers had very high stress from equipments, 84.7% mothers had very high stress on unfamiliar environment, 68.5% had very high stress for lack of adequate sanitation and air pollution, 46.6% had very high stress related to no game room for children, 59% had very high stress that no room to rest for visitor and 49.5% had very high stress regarding shortage of blankets and linens.

Regarding stressors related to hospital staffs (Table 4), 49.5% mothers had low stress for inadequate explanation about the illness by the physician, 46.9% mothers had low stress for Inadequate explanation about the lab results & diagnostic procedures by the physician, 78% mothers had very high stress for giving the responsibility for monitoring IV fluids, 74.2% had very high stress for turning over responsibility for collecting samples to mothers by nursing staffs, 60.9% mothers had very high stress on lack of attention from nursing staffs about mother’s problem and 68.5% had very high stress on lack of proper nutrition for hospitalized children.

**Table 1: Stressors related to child factors according to likert scale**

| Variables                                      | VH (%) | H (%) | A (%) | L (%) | NS (%) |
|------------------------------------------------|--------|-------|-------|-------|--------|
| The child appears lethargic, weak & pale       | 62.8%  | 37.2% | -     | -     | -      |
| Prolongation of hospitalization                | 58.1%  | 23.8% | 16.2% | 1.9%  | -      |
| The severity of disease                       | 56.1%  | 27.6% | 5.8%  | 10.5% | -      |
| Child’s enabled to eat                         | 45.7%  | 17.2% | 16.2% | 20.9% | -      |
| Fear of death                                 | 38%    | 36.1% | -     | 25.9% | -      |
| Uncertain try about future of child’s medical condition | 63.8%  | 20.9% | 15.3% | -     | -      |
| Fear of relapse                                | 90.4%  | 9.6%  | -     | -     | -      |
| Child irritability & crying                    | 88.6%  | 3.8%  | 5.7%  | 1.9%  | -      |
| Concern about IV fluids & tubes connected      | 78%    | 13.3% | 3.8%  | 3.8%  | 0.9%   |
| Child’s pain                                   | 83.8%  | 4.8%  | 3.8%  | 7.6%  | -      |
| Concern about laboratory & imaging             | 87.7%  | 5.7%  | 2.8%  | 3.8%  | -      |

(VH) Very High, (H) High, (A) Average, (L) Low, (NS) No Stress
Table 2: Stressors related to social and economic aspects according to likert scale

| Variables                                      | VH (%) | H (%) | A (%) | L (%) | NS (%) |
|------------------------------------------------|--------|-------|-------|-------|--------|
| Failure to provide comfort to other children due to child illness | 59%    | 41%   | -     | -     | -      |
| Problems related to drug unavailability         | 16.2%  | 11.4% | 38%   | 34.4% | -      |
| Inability to pay the costs of treatment & care | 44.7%  | 16.2% | 20.9% | 18.2% | -      |
| Concern about academic & school                 | 6.6%   | 10.4% | 1.9%  | 12.3% | 68.8%  |
| Fear of other children having the same disease  | 55.2%  | 0.1%  | -     | 2.8%  | 41.9%  |
| Fear of job loss because of the child’s disease | -      | -     | 5.8%  | -     | 94.2%  |
| Being away from work & living place             | 82.8%  | 7.7%  | -     | 9.5%  | -      |

(VH) Very High, (H) High, (A) Average, (L) Low, (NS) No Stress

Table 3: Stressors related to environmental factors according to likert scale

| Variables                                      | VH (%) | H (%) | A (%) | L (%) | NS (%) |
|------------------------------------------------|--------|-------|-------|-------|--------|
| Noise pollution                                | 7.7%   | 9.5%  | 45.7% | 20%   | 17.1%  |
| Crowded room & the large number of children    | -      | -     | -     | 10.4% | 89.6%  |
| Uncomfortable beds                            | 25.7%  | 17.1% | 29.5% | 17.1% | 10.6%  |
| Equipments                                     | 31.4%  | 54.2% | 6.6%  | 5.7%  | 2.1%   |
| Concern about unpleasant odors                | 84.7%  | -     | 7.6%  | 1.9%  | 5.8%   |
| Unfamiliar environment                         | 59%    | 29.5% | 11.5% | -     | -      |
| Lack of adequate sanitation & air pollution    | 68.5%  | 10.6% | 9.5%  | 3.8%  | 7.6%   |
| No game room for children to entertain         | 46.6%  | 16.1% | 10.4% | 3.1%  | 23.8%  |
| No room to rest for visitor                    | 59%    | 16.1% | -     | 19%   | 5.9%   |
| Shortage of blankets and linens                | 49.5%  | 18%   | 20.9% | 7.6%  | 4%     |

(VH) Very High, (H) High, (A) Average, (L) Low, (NS) No Stress

Table 4. Stressors related to hospital staffs according to likert scale

| Variables                                      | VH (%) | H (%) | A (%) | L (%) | NS (%) |
|------------------------------------------------|--------|-------|-------|-------|--------|
| Inadequate explanation about the illness by the physician | 8.5%   | 3.8%  | 25.7% | 49.5% | 12.5%  |
| Inadequate explanation about the lab results & diagnostic procedures by the physician | 8.5%   | 4.7%  | 27.6% | 46.9% | 12.3%  |
| Giving the responsibility for monitoring IV fluids | 78%    | 10.4% | 9.5%  | 2.1%  | -      |
| Turning over responsibility for collecting samples to mothers by nursing staffs | 74.2%  | 17.1% | 3.8%  | 2.8%  | 2.1%   |
| Lack of attention from nursing staffs about mother’s problem | 60.9%  | 18.1% | 15.2% | 0.9%  | 4.9%   |
| Lack of proper nutrition for hospitalized children | 68.5%  | 5.7%  | 11.4% | 6.6%  | 10.8%  |

(VH) Very High, (H) High, (A) Average, (L) Low, (NS) No Stress
DISCUSSION:
The findings of the study showed that majority of mothers had very high stressors related to child factors (62.8% child appears lethargic, 58.1% weak and pale, prolongation of hospitalization, 45.7% child’s enabled to eat, 38% fear of death, 63.8% uncertain try about future of child’s medical condition, and 90.4% fear of relapse). Around 88.6% mothers had very high stressors related to child irritability and crying, 78% mothers had very high stressors in concern about IV fluids and tubes connected, 83.8% had very for child’s pain and 87.7% had very high concern about laboratory and imaging. In the study conducted by TEHRANI, Haghighi, Bazmamoun (2008) on pediatrics ward of Besat hospital in Hamedan, which showed that the stressors in mothers of hospitalized children the most influencing factor related to children’s care was fear of death and the least one was about serum IV fluid and other connected tubes to the child.10

The findings of the study, stressors related to social and economic aspects, mothers had very high stressors for 59% for failure to provide comfort to other children due to child illness, 55.2% fear of other children having the same disease and 82.8% being away from work and living place. In the study conducted by Esmaeilzadeh (2001) in Qods hospital of Qazvin (Iran), the highest socio-economic stressor was the mother’s worrying about other children left at home.11

The findings of the study stressors related to environmental factors, mothers having very high stress on 54.2% with equipments, 84.7% unfamiliar environment, 68.5% for lack of adequate sanitation and air pollution, 46.6% had very high stress related to no game room for children, 59% had very high stress that no room to rest for visitor and 49.5% had very high stress regarding shortage of blankets and linens. In the study conducted done by Mwangi et al (2008) on 13 public hospitals in northern Tanzania, the most effective environmental stressors were crowded rooms, lack of food, poor sanitation and fear from transmission of infections from other children to their child.9 The study conducted by Soderback and Christensson, mothers' at the Central Hospital in Maputo, Mozambique, Southeast Africa mothers complaint related to environmental factors were about lack of sanitation services.8

The findings of the study regarding stressors related to hospital staffs, 78% mothers had very high stress for giving the responsibility for monitoring IV fluids, 74.2% had very high stress for turning over responsibility for collecting samples to mothers by nursing staffs, 60.9% had very stress on lack of attention from nursing staffs about mother’s problem and 68.5% had very high stress on lack of proper nutrition for hospitalized children. In the study conducted done by Mwangi et al (2008) on 13 public hospitals in northern Tanzania, most of the stressors related to the staff and employees were caused by an inadequate explanation and that mothers (in addition to their own basic needs such as nutrition and rest) expect, were involved in the decision-making process by the medical staffs and also take adequate explanation about healing process and invasive procedures.9

CONCLUSION:
Based on the study findings, it is concluded that mothers felt stress, psychological and emotional impact on their own behavior during their children hospitalization in this condition, mothers need understanding of their psychological and emotional problems wanted to obtain simplified explanation. So, special attention and professional training programs should be required for health care providers and nursing staffs regarding dealing with the stressors of mothers of hospitalized children.

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CONFLICT OF INTEREST: None

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