Pediatric Nurses’ Perspectives on Family-Centered Care in Sri Lanka: A Mixed-Methods Study

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Purpose: This study was conducted to investigate nurses’ perspectives and performance of family-centered care (FCC) at a children’s hospital in Sri Lanka and to explore the feasibility of implementing FCC in the context of the Sri Lankan healthcare system. Methods: A convergent, parallel, mixed-methods design was applied to understand Sri Lankan nurses’ perspectives on FCC. In total, 157 nurses working at a large tertiary children’s hospital responded to a self-report survey and 18 nurses participated in focus group interviews. Results: Of the factors of FCC, family participation in caring for children received the highest score (4.09 ± 0.51) for perceptions, and information-sharing received the highest score (3.54 ± 0.55) for performance. The qualitative data revealed the following five themes: (a) importance of the family in caring for children; (b) helping families during children’s hospitalization; (c) taking steps to implement FCC, even with imperfect knowledge; (d) barriers in the current situation; and (e) suggested strategies to promote FCC. Conclusion: Participants endorsed the concept of FCC and demonstrated some aspects of it in their day-to-day practice. The results indicate a clear knowledge deficit and several challenges, which need to be addressed to effectively implement FCC.

Key words: Hospitalized children; Family nursing; Parents; Pediatric nursing
ments in Sri Lanka, the healthcare system is solely concentrated on medical doctors [8]. Consequently, decision-making about patients is determined by doctors, rather than the opinions of families or nurses. Most patients are therefore treated as passive recipients of care, and nurses have long adhered to the biomedical model [9].

Furthermore, FCC is not appropriately recognized in nursing education in Sri Lanka. The diploma-level nursing schools where more than 90% of nurses receive their basic nursing training do not include FCC in their curricula [10]. De Silva and Rolls [11] emphasized that Sri Lankan nurses are stagnating in the absence of proper guidance and with minimal opportunities for professional development. In addition, few studies have explored FCC in Sri Lanka. Although a single cross-sectional descriptive study was conducted to investigate the perceptions and practices of FCC among undergraduate nursing students [12], no study has yet explored registered nurses’ perceptions of FCC and its feasibility in practice in Sri Lanka. Therefore, nurses may face difficulties when seeking to practice FCC.

The purpose of the current study was to assess the levels of perceptions and performance of FCC among Sri Lankan pediatric nurses, to explore their perspectives on the feasibility of practicing FCC, and finally to obtain insights into the status of FCC in Sri Lankan pediatric nursing. A mixed-methods research design, involving simultaneous quantitative and qualitative research, can be used to increase the breadth and depth of understanding of a phenomenon of interest [13]. The findings of this study are expected to act as a cornerstone for the successful establishment of FCC in Sri Lanka. This study is also expected to contribute to improvements in family satisfaction and the quality of child care.

**METHODS**

1. Research Design

A convergent, parallel, mixed-methods study design was employed. Quantitative data were collected via questionnaires, and focus group interviews (FGIs) were conducted to obtain qualitative data. Both datasets were analyzed separately and merged for the overall interpretation [13] (Figure 1).

2. Ethical Considerations

The study was approved by the institutional review board of Inje University in the Republic of Korea (No. 2017-10-056-001) and the ethical review board of Lady Ridgway Hospital in Sri Lanka (LRH/DA/09/2018). The subjects received an explanation of the necessity, purpose, and methods of the study, and the data were processed anonymously. They also received an explanation that it was possible for them to withdraw their participation in the study at any time without any penalties. In order to maintain the anonymity of the data, consent forms, questionnaires, and interview records were kept separately after data collection. The subjects of the recording files were sorted alphabetically, and the respondents to the questionnaires were referred to using numbers so that they could not be personally identified.

3. Study Setting

The study was conducted in a large tertiary children’s hospital, the Lady Ridgway Hospital in Colombo, the capital of Sri Lanka. With over 900 beds, it serves as the national referral
center for pediatric care.

4. Quantitative Study

1) Participants
In total, 200 questionnaires were distributed among pediatric nurses who agreed to participate in the study. In this quantitative study, it was not possible to use the G*power program to calculate the sample size, because only the mean and standard deviation were used as descriptive statistics, without special statistical methods. Thus, the number of samples was calculated based on a prior study [6] that investigated nurses’ perceptions of FCC at Saudi Arabian Children’s Hospital, in a similar developing country, using a mixed-methods analysis. In total, 173 surveys were received (response rate: 86.5%), of which 16 were discarded due to incomplete responses, yielding a final sample of 157 (78.5%).

2) Instruments
The questions on nurses’ perceptions and performance of FCC were developed according to the core concepts of FCC defined by the Institute of Patient and Family-Centered Care [14]. Initially, 77 items were drafted and sent to seven experts in the field from Sri Lanka and South Korea. After analyzing the experts’ feedback, 31 questions were deleted because of inappropriateness for the Sri Lankan context or an insufficient content validity index (CVI) score, with a CVI of .80 or higher considered to be evidence of good content validity. The resulting 46 items was sent to 15 nurses working in a pediatric unit to evaluate face validity and reliability. Three items were deleted based on the CVI, while two items were modified.

The scale used to assess nurses’ perceptions of FCC had 16 items, and each subscale (core concepts) had 4 questions. The Cronbach’s $\alpha$ values for the subscales—(a) respect and dignity, (b) information sharing, (c) collaboration, and (d) family participation—were .72, .77, .85, and .82, respectively, while the total perception scale had a Cronbach’s $\alpha$ of .92. The final version of the scale used to assess nurses’ performance of FCC comprised 27 items. In the present study, the overall Cronbach’s $\alpha$ was .88, but the Cronbach’s $\alpha$ values showed considerable variation across the subscales, with the values for (a) respect and dignity (9 items), (b) information-sharing (6 items), (c) collaboration (7 items), and (d) family participation (5 items) being .77, .41, .72, and .71 respectively. Despite the low Cronbach’s $\alpha$ value for information-sharing, the subscale was used for comparing perceptions of FCC with performance.

Confirmatory factor analysis (CFA) was used to test whether measures of a construct were consistent with the researcher’s understanding of the nature of that factor. CFA showed that four factors including standardized factor loading, construct reliability, and average variance extracted among all items exceeded the cut-off values of .50, .70, and .50 respectively, used to assess model fit.

A strengths, weaknesses, opportunities, and threats (SWOT) analysis was employed to assess the feasibility of FCC and identify its advantages and disadvantages. Thirty-one structured multiple response questions were developed by researchers and nurse experts in Sri Lanka to analyze SWOT. Each item of the questionnaire was constructed in English and translated into Sinhala (the most widely-spoken official language of Sri Lanka) based on World Health Organization guidelines for the process of translation and adaptation of instruments [15].

3) Data collection and analysis
Data collection was conducted during January 2018. After the president of the hospital approved data collection, a box was put in the matron’s office, and completed questionnaires were picked up after 1 week. A gift voucher raffle (1,000 Sri Lanka rupees, roughly equivalent to 5.50 USD or 4.95 EUR) was conducted for participants. Descriptive statistics for general characteristics and each subscale were calculated using SPSS version 24.0 (IBM Corp., Armonk, NY, USA).

5. Qualitative Study

1) Participants
The qualitative study included three FGIs with six nurse managers who had more than 10 years of clinical experience (mean: 14.3±4.6 years) and 12 nurses with more than 5 years of clinical experience (mean: 10.8±6.8 years).

2) Data collection
Data collection was conducted during February 2018. Each FGI took approximately 1.5~2.0 hours. The interviews were conducted using the following questions: "What do you know about FCC?", "How do you practice FCC?", "Do nurses need to learn FCC?", "What are the difficulties in implementing FCC?", and "How can we practice FCC in your setting?" All interviews were recorded and each participant received 750 Sri Lanka rupees as compensation.

3) Data analysis
Inductive content analysis was performed according to the method described by Elo and Kyngäs [16]. This approach provides researchers a better understanding of the context. This method also has the advantage of obtaining information directly from participants without bias or theoretical opinions. This process involves iterative steps of line-by-line reading, coding, categorizing, and abstraction. Opposite and inter-
Table 1. General Characteristics of Participants (N=157)

| Characteristics         | Categories       | n (%) or M±SD |
|-------------------------|------------------|---------------|
| Age (year)              | ≤ 29             | 64 (40.8)     |
|                         | 30~34            | 48 (30.6)     |
|                         | 35~39            | 23 (14.6)     |
|                         | > 40             | 22 (14.0)     |
|                         | M±SD             | 32.4±6.6      |
| Working unit            | Medical unit     | 41 (26.1)     |
|                         | Surgical unit    | 20 (12.7)     |
|                         | Operating theater| 28 (17.8)     |
|                         | ICU              | 51 (32.5)     |
|                         | Other            | 17 (10.9)     |
| Religion                | Buddhism         | 146 (93.0)    |
|                         | Christianity     | 10 (6.4)      |
|                         | Islam            | 1 (0.6)       |
| Marital status          | Married          | 91 (58.0)     |
|                         | Unmarried        | 66 (42.0)     |
| Experience as a nurse (year) | < 1              | 29 (18.5)     |
|                         | 1~5              | 50 (31.8)     |
|                         | 5~10             | 34 (21.7)     |
|                         | > 10             | 44 (28.0)     |
|                         | M±SD             | 7.2±6.5       |
| Experience as a pediatric nurse (year) | < 1              | 31 (19.7)     |
|                         | 1~5              | 59 (37.6)     |
|                         | 5~10             | 29 (18.5)     |
|                         | > 10             | 38 (24.2)     |
|                         | M±SD             | 6.4±6.0       |
| Formal education        | Nursing school   | 152 (96.8)    |
|                         | University       | 5 (3.2)       |
| Post-basic pediatric training | Yes            | 25 (15.9)     |
|                         | No               | 132 (84.1)    |
| I have heard of FCC     | Yes              | 61 (38.9)     |
|                         | No               | 96 (61.1)     |
| I have learned about FCC| Yes             | 23 (14.6)     |
|                         | No               | 134 (85.4)    |
| I learned about FCC at (n=23) | Pre licensure    | 11 (47.8)     |
|                         | In-service program| 8 (34.8)   |
|                         | Post-basic pediatric training | 4 (17.4)   |
| If you learned about FCC, how do you perform FCC? (n=23) | Practice it day-to-day | 9 (39.1) |
|                         | Practice it in sometimes | 6 (26.1) |
|                         | No, not practice at all | 8 (34.8) |

ICU=Intensive care unit; FCC=Family-centered care.

RESULTS

1. Quantitative Results

1) Demographic data of the participants

The mean age of participants was 32.4±6.6 years, the majority of participants (93.0%) were Buddhists, and 91 participants (58.0%) were married. The nurses’ mean experience was 7.2±6.5 years, whereas their mean experience as pediatric nurses was 6.4±6.0 years, and only five had a bachelor’s degree. Sixty-one respondents (38.9%) had previous knowledge of FCC. Twenty-three nurses (14.6%) had learned about FCC, among whom 11 nurses (47.8%) had learned about FCC in a pre-licensure course (Table 1).

2) Nurses’ perception and performance of family-centered care

The mean score for overall perceptions of FCC was 4.02±0.44 and the mean score for performance of FCC was 3.38±0.54 (Table 2). Family participation was the element that received the highest score (4.09±0.51), followed by respect and dignity (4.08±0.46), information-sharing (3.98±0.51), and collaboration (3.92±0.60). In contrast, for the performance of FCC, information-sharing (3.54±0.55) received the highest score, and collaboration (3.29±0.63) received the lowest (Table 2).

3) Nurses’ perceived feasibility of practicing family-centered care

Most of the participants (87.3%) perceived that increased family satisfaction was a strength of implementing FCC. However, lack of knowledge of FCC among Sri Lankan nurses (84.1%) was identified as a weakness. The participants answered that an opportunity of implementing FCC was that their public image as nurses’ status would improve (85.4%). However, the high nurse-to-patient ratio was (81.5%) identified as a threat to FCC (Table 3).

2. Qualitative Results

The qualitative results were classified into three categories (perceptions, performance, and feasibility of FCC). Five themes were derived by merging 21 codes (Table 4).

1) Perceptions of family-centered care

(1) Importance of the family in caring for children
Children are not comfortable in the hospital, and their discomfort can be reduced by having parents stay with their children. The participants stated that FCC is a crucial component of providing care to children and that nurses cannot pro-
Table 2. Perceptions and Performance of Family-Centered Care

| Element of FCC | Perceptions of FCC | Performance of FCC |
|---------------|--------------------|-------------------|
|               | Items (total)      | M±SD    | Items (total) | M±SD     | Item M±SD |
| Respect and dignity | 4 (20) | 16.33±1.87 | 4.08±0.46 | 9 (45) | 29.93±5.81 | 3.32±0.64 |
| Information-sharing | 4 (20) | 15.95±2.06 | 3.98±0.51 | 6 (30) | 21.24±3.33 | 3.54±0.55 |
| Collaboration | 4 (20) | 15.68±2.41 | 3.92±0.60 | 7 (35) | 23.03±4.43 | 3.29±0.63 |
| Family participation | 4 (20) | 16.34±2.05 | 4.09±0.51 | 5 (25) | 17.10±3.94 | 3.42±0.79 |
| Overall | 16 (80) | 64.36±7.06 | 4.02±0.44 | 27 (135) | 91.29±4.58 | 3.38±0.54 |

FCC=Family-centered care.

Table 3. Nurses’ Perceptions of the Feasibility of Practicing Family-Centered Care

|                         | n (%)          |
|-------------------------|----------------|
| Strengths               |                |
| FCC will increase families’ satisfaction. | 137 (87.3) |
| Nurses have a good understanding of FCC. | 105 (66.9) |
| Nurses are willing to change. | 97 (61.8) |
| Weaknesses              |                |
| Nurses lack knowledge about FCC. | 132 (84.1) |
| The hospital has insufficient infrastructure. | 113 (72.0) |
| Families have low literacy levels. | 101 (64.3) |
| Other healthcare team members do not cooperate. | 80 (51.0) |
| Opportunities           |                |
| Nurses’ image will improve among the public. | 134 (85.4) |
| The quality of care will improve. | 124 (79.0) |
| Children’s hospital stays will be reduced. | 113 (72.0) |
| Threats                 |                |
| The nurse-to-patient ratio is still high. | 128 (81.5) |
| Family members will interfere with the nurse’s work. | 95 (58.6) |
| Nurses’ workload will be doubled. | 90 (57.3) |
| It will disturb the ward routines. | 71 (45.2) |

FCC=Family-centered care.

vide proper care without children’s families. Moreover, the participants acknowledged that parents are a rich source of relevant information and serve as advocates for their children.

Others cannot make important decisions regarding someone else’s child. The rule is that important decisions can be made by the mother or father of the child. (#4; group 1)

I think parents provide reliable information, because parents know the child’s disease history, developmental history, and the child’s usual behavior, and it is easy to communicate with the parents. (#2; group 1)

(2) Helping families during children’s hospitalization
Participants felt that mutual trust between parents and healthcare staff would be enhanced by concentrating on the family. Furthermore, they thought that input from parents and family members improved their knowledge and skills in caring for children. It was helpful to reinforce family bonds through providing the family with knowledge and skills about caring for their children.

For example; when performing tracheostomy care, we can invite parents to take part in procedures. However, whether they take part depends on their knowledge and abilities. It helps to improve their abilities to care for the child at home. (#1; group 3)

One day, a congenitally abnormal baby was born, and the mother said it was her fault, while others thought it was the father’s fault. They were very anxious and depressed. So, I explained that it wasn’t anyone’s fault and that they should get rid of myths. I think it will strengthen family bonds. (#2; group 3)

2) Performance of family-centered care
(1) Taking steps to implement family-centered care, even with imperfect knowledge
Even though the participants had not learned about FCC in depth, they did practice some aspects of FCC. The participants acknowledged the importance of parents being present with their children during procedures. Therefore, the participants made efforts to give parents information about the treatment plan, follow-up care at home, and so on. The participants who worked in the pediatric intensive care unit introduced parents who could not afford the costs of healthcare to financial sponsors. However, some participants delegated some elements of their work to the parents.
Table 4. Summary of the Thematic Analysis of Focus Group Interview Data

| Codes                                                                                               | Themes                                         | Categories                  |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------|
| Parents comfort their children.                                                                     | Importance of the family in caring for children | Perception of FCC           |
| Parents advocate for their children.                                                                  |                                                 |                             |
| Parents are a rich source of information about their children.                                        |                                                 |                             |
| FCC enhances the nurse-family relationship.                                                           | Helping families during children's hospitalization |                             |
| FCC encourages family to care for their child.                                                        |                                                 |                             |
| FCC improves family bonds.                                                                             |                                                 |                             |
| Nurses help families to stay with their children.                                                      | Taking steps to implement FCC, even with imperfect knowledge | Performance of FCC         |
| Nurses share information with parents.                                                                |                                                 |                             |
| Nurses arrange financial sponsors.                                                                    |                                                 |                             |
| Nurses delegate some tasks to skillful parents.*                                                      |                                                 |                             |
| Nurses do have a knowledge deficit on FCC.                                                            | Barriers in the current situation               | Feasibility of FCC          |
| Nurses do not have sophisticated communication skills.                                                |                                                 |                             |
| Nurses are powerless in the organization.                                                             |                                                 |                             |
| Hospitals have inadequate infrastructure for families.                                                |                                                 |                             |
| There is a shortage of nursing staff.                                                                 |                                                 |                             |
| Fathers are separated from child care as a cultural issue.                                            |                                                 |                             |
| The nursing curriculum should include FCC.                                                            | Suggested strategies to promote FCC            |                             |
| Hospitals should provide continuing education on FCC for nurses.                                      |                                                 |                             |
| Families should be asked about their satisfaction with FCC.                                           |                                                 |                             |
| Family-friendly facilities are needed.                                                                |                                                 |                             |
| Institutional policies are needed.                                                                    |                                                 |                             |

*Item reflecting a misperception about performing family-centered care; FCC=Family-centered care.

In relation to the ICU, if the child is conscious and asking for his or her mother, we allow mothers to come inside the ICU and be with the child after giving advice about how to behave in the ICU. (#4; group 2)

We have some affluent parents. Children have been treated at the ICU . . . When needy children appear, we contact donors and arrange for individualized help for the child... (#4; group 2)

Sometimes, I delegate minor nursing tasks such as administering oral medications, bed-making, and changing dressings. (#5; group 1)

3) Feasibility of family-centered care

(1) Barriers in the current situation

There were many barriers to the successful practice of FCC. The majority of the participants had not learned about FCC, and they experienced difficulties in informing families about various aspects of their children’s care due to their lack of sophisticated communication skills. Moreover, participants felt that they did not have power in the medical-dominant health care system, especially given the shortage of nursing staff. Additionally, in Sri Lankan culture, fathers are separated from caring for their children in hospitals.

I did not learn FCC specially, but I have some idea about FCC by reading journals… Sometimes, I can’t decide whether certain information should be revealed to the family or not. (#1; group 2)

… And this overcrowded situation interferes with nursing care too. On the other hand, as the ratio of nurse to patients goes up, this can be an extra burden to nurses. (#1; group 1)

(2) Suggested strategies to promote family-centered care

Participants suggested that the concept of FCC should be introduced into the basic nursing curriculum and continuing education at the hospital. They also expressed the need to evaluate their practice of FCC by gathering information on parents’ satisfaction. They expressed the need to create a family-friendly environment and to change hospital policies accordingly.

This concept of FCC should be taught in basic nursing programs during nursing school or university undergraduate programs. (#6; group 1)

In-service workshops would be a better option to educate nurses who are currently working. One or two workshops are not enough. They should be done continuously till all nurses grasp the meaning of FCC. (#1; group 1)

There are not enough accommodations, nurses even put two sick children in a single bed. (#3; group 2)

I think our supervisors and the chief of the hospital
should learn about FCC, and then help us to initiate this. (# 1, group 3).

DISCUSSION

1. Perceptions of Family-Centered Care among Sri Lankan Pediatric Nurses

The Sri Lankan pediatric nurses included in this study acknowledged parents’ crucial role in caring for children, and recognized that parents should be with their children to comfort and advocate for them within the framework of FCC. Consistent results reported in previous studies have shown that parents are the best caregivers for their children [6,17]. According to Dokken and Ahmann [18], the first role of a parent is to be an advocate who speaks for his or her child’s opinions. The second role is a supporter who helps other families in similar situations, the third is an advisor who helps build a family-friendly hospital environment, and the final role is that of an educator in the process of sharing his or her child’s information with health professionals. Given the recognition that families’ roles are gradually expanding as FCC continues to develop [1], it is necessary to explore various ways through which family members and health professionals can cooperate. This will help families continue to play an independent role in the future.

In the qualitative results of this study, participants expected FCC to establish mutual trust between healthcare staff and parents, thereby ultimately contributing to better health outcomes for children. FCC brings nurses and parents closer to each other, thereby enhancing the nurse-parent relationship [19]. Therefore, FCC enables nurses to carry out care plans more easily by collaborating with parents [4]. Patients and families are also expected to be more satisfied with the care received, reducing the risk of conflict. Finally, FCC creates an environment in which nurses and parents act like a team with dynamic interactions.

In this study, we found FCC to be helpful for encouraging families to provide care for their children. Nurses can assess and teach certain procedures to the parents when the child is discharged. The Sri Lankan pediatric nurses thought that they would be able to empower families. A trusting nurse-parent relationship gives patients the chance to receive information, increases their understanding of their children’s condition and treatment plan, and supports them in understanding the parental role and being involved in clinical decision-making [5]. The Family-Centered Care Coordination (FCCC) program of Massachusetts General Hospital for Children was designed to train caregivers in tracheostomy care and to provide earlier, timely follow-up after a child is discharged [20]. The researchers found that the FCCC program significantly reduced post-discharge complications and re-admissions. Establishing and disseminating FCC in Sri Lanka will strengthen parents’ capacity to care for their children and will positively affect children’s health outcomes. Therefore, FCC is the most effective strategy for providing care to children in the hospital setting, especially in underdeveloped countries such as Sri Lanka.

2. Performance of Family-Centered Care by Sri Lankan Pediatric Nurses

In the qualitative results, Sri Lankan pediatric nurses demonstrated that they performed FCC to some extent despite still having some misconceptions. After the FGIs, the misunderstandings of FCC became clear. For instance, some nurses taught skills such as tube feeding and stoma care for patients experiencing long-term hospitalization. This kind of nurse-parent relationship has sometimes been criticized, because implementing FCC in this way comes close to shifting the responsibility of providing care to parents, rather than promoting collaboration [17].

Further, participants thought that FCC would be a partial solution for the nursing shortage in Sri Lanka. Similarly, Shield [1] argued that this is a misbelief that arises because the family is always to be found at the child’s bedside and nurses delegate some aspects of care. She emphasized that this is a fallacy. In developing countries, it is usual for parents to take care of their children, not from any philosophical choice on the part of the hospital, but because of insufficient nursing staff [21]. Even still, fathers are not allowed to stay with their children due to the lack of appropriate facilities, institutional rules, and cultural beliefs. However, nurses try to involve fathers and siblings in the care of hospitalized children. In accordance with the definition of FCC [2], healthcare professionals should encourage parents to be with the child at any time.

Information-sharing is necessary to promote hospitalized children’s well-being. In this study, participants acknowledged that providing accurate information has a positive effect on carrying out the treatment plan. However, they refrained from giving all the relevant information, because they felt that parents may misunderstand the information or feel depressed [22]. In Turkey, pediatric nurses thought that giving parents too much information about their children could lead to stress and confusion [23]. However, transparent information-sharing is an important component of FCC, so nurses need to improve their communication skills, including the use of accurate and easy-to-understand wording in combination with emotional support.

In this study, the lowest score for perceptions of FCC among Sri Lankan pediatric nurses was found for collabo-
ration, reflecting the fact that actual collaboration in the field has also been also rare. According to Rosen et al. [24], collaboration between various disciplines will foster teamwork and strengthen the capabilities of healthcare providers. Collaboration and interactions with all stakeholders, including doctors and parents, play an important role in ensuring the best decision-making in the hospital setting [3]. Collaboration allows nurses to confirm the treatment plan and intention and to identify parents’ preferences for their children’s medical care. In the qualitative results, participants reported working to create a network of affluent parents to help families that need financial support. However, such parents are usually not invited to ward meetings as team members.

3. Feasibility of Practicing Family-Centered Care in Sri Lankan Pediatric Settings

First of all, our qualitative and quantitative data revealed that Sri Lankan pediatric nurses have a knowledge deficit of FCC that needs to be improved. The participants reiterated the need for education on FCC. Without prior knowledge, nurses cannot implement the principles of FCC properly [25]. Almost all participants in both groups agreed with the notion of including FCC in the basic nursing curriculum. According to the SWOT analysis, they believed that nurses’ willingness to change was a major strength.

The participants reported in the qualitative research that Sri Lankan nurses lacked communication skills or were reluctant to communicate with parents. In the SWOT analysis, threats included the lack of time to communicate effectively given their heavy workload and the shortage of nurses. Effective communication and regular information-sharing are helpful for reducing parents’ anxiety and giving timely and attentive care [26]. A study done in Ireland reported that nurses needed communication skills training [17], and this need extends to all staff members, in addition to healthcare professionals [1]. This is supported by the finding of a systematic review [24] of the use of understandable language during medical rounds, which reported that the amount and type of communication and satisfaction with communication need to be considered to ensure effective communication.

Environmental factors such as facilities, human resources, and institutional rules and protocols play a major role in nursing care [25]. Unlike private hospitals, hospitals in Sri Lanka run by the government are characterized by poor facilities for families, overcrowding, staff shortages, and unlimited hospital admissions. Our analysis identified this underdeveloped infrastructure as a weakness that hinders the successful implementation of FCC. In Ireland, nurses supported the model of FCC, but they were unable to implement all elements of FCC in practice because of barriers such as a lack of resources and aspects of hospital design related to healthcare organizations [17].

Furthermore, in the qualitative results of the current study, Sri Lankan pediatric nurses expressed uncertainty about their ability to practice FCC fruitfully because of their lack of institutional power, as their ideas are seldom recognized by the hospital authorities. However, in the qualitative findings, nurses hoped that the hospital authorities would help them if they want to practice FCC. A similar idea was found in a study conducted in Ireland [17], where nurses seldom participated in designing the healthcare system.

Apart from that, cultural issues have a significant influence on practicing FCC [23]. In Sri Lanka, fathers are restricted from entering hospital rooms, and mothers usually take care of their children. As such, the hospital does not provide accommodations for families. In Ireland, pediatric nurses highlighted the need for specific facilities such as parent and family rooms, teenage recreation areas, and breastfeeding rooms [17]. To involve families in FCC, hospitals need to create a family-friendly environment, as well as showing sincere hospitality and respect for families’ opinions.

There are some misconceptions of FCC, such as the idea that it provides a solution for the shortage of nurses, rather than being a way of making decisions related to the healthcare provided to children. Although nurses were enthusiastic about the need to practice FCC, in order to successfully implement FCC, the barriers should be addressed beforehand. There should be adequate staff and physical facilities. Educational programs should be developed in order to bridge the knowledge gap. FCC should be included in the undergraduate curriculum in universities and in conventional nursing training schools in Sri Lanka. In addition, comprehensive in-service programs should be arranged within the hospital for registered nurses, and post-basic pediatric courses should be strengthened to create a venue for nurses to update their knowledge on not only FCC, but also communication skills in general.

CONCLUSION

The Sri Lankan pediatric nurses approved of FCC, as demonstrated by their favorable perceptions, although they did have certain misconceptions. This finding can be explained by their lack of knowledge about FCC. They appeared to be practicing some elements of FCC, despite lacking proper knowledge. The most important aspect of these findings is they are keen to learn FCC, for which they need to cultivate their competencies through further professional development. However, many
barriers to implementing FCC were identified; working toward the adoption of FCC will not be an easy task, and cooperation with other healthcare parties and institutional support through policy changes may be required to implement the FCC philosophy in the pediatric clinical setting. To integrate FCC, Sri Lanka will need changes in its health policy, and in particular, efforts should be made to accelerate nurse recruitment. Further studies should focus on other healthcare staff and healthcare institutional authorities to understand the barriers to FCC and to improve the feasibility of practicing FCC in the children’s hospital setting in Sri Lanka. Education programs also need to be arranged for parents and families, in order to increase their awareness of FCC and their participation. Parents’ satisfaction with care should be another indicator used to assessing pediatric nurses’ FCC competencies.

This study was conducted at a single institution, and the results therefore cannot be generalized to the whole country. Our population is limited to nurses, but healthcare is a team enterprise, and other related professionals’ points of view are also important for making decisions. Furthermore, healthcare consumers’ points of view should also be investigated.

Conflict of interest

No existing or potential conflict of interest relevant to this article was reported.

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