

## The influence of support groups on the family of risk newborns and on neonatal unit workers

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### Abstract

**Objective:** To investigate the influence of support groups on the family of risk newborn infants and on neonatal unit workers.

**Methods:** We used a qualitative approach, and as theoretical basis, family-centered care. The study was conducted in the neonatal unit of Hospital Prontolinda, in Pernambuco, Brazil. From January to June 2004, 25 meetings were held by the family support group. Data were collected through the observations of participants and through tape-recorded interviews with 13 mothers, six fathers, two grandmothers and 16 healthcare workers. The interviews were submitted to speech content analysis (thematic modality).

**Results:** The analysis revealed that the support group to the family of risk newborns provided parents and family members with information, emotional support and strengthening so that they could come to terms with the birth of their child and his/her admission to the neonatal unit, in addition to enabling parents to take care of the newborn infant. There was interpersonal growth in the interaction between parents, family members, and healthcare workers.

**Conclusions:** The support group to the family of risk newborns uses an approach that is based on family-centered care. These principles allow restoring parental competence, helping healthcare workers to respect values and feelings of family members, and establishing a collaborative work between parents and healthcare workers in the neonatal unit.

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### Introduction

By analyzing the changes neonatal care has been put through, we can perceive that the presence of family has been much more frequent, and that they have interacted

with healthcare workers in the neonatal intensive care unit (NICU). In this context, it is essential that the effects of birth and admission of the risk newborn to the NICU on parents and family members be evaluated. It is also important to find the best way to approach the family in order to help them adapt to the critical situation the newborn infant, parents and family members are experiencing, and share their feelings with the neonatal unit healthcare workers.

Risk newborns are those most likely to die during or after labor or those with a congenital or perinatal disease that requires immediate intervention.<sup>1</sup>

Figure 1 shows the effects of birth and NICU admission of newborns and possible triggers of stress to parents and family members.<sup>2</sup> Emphasis is placed on the importance of knowing the family, personal, prenatal and perinatal history of parents in order to better understand what families carry with them in terms of life experience,

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enabling them to come to terms with the birth and hospitalization of their children.

When newborns are admitted to the NICU, some interrelated aspects exist that may cause stress on the family:<sup>2-5</sup> the physical appearance of a newborn that is either preterm or unhealthy is stressful to parents, since the child does not meet their expectations, interfering with the bonding and interaction between parents and children;<sup>3</sup> the severity of the disease and the treatment are a primary source of stress, as the newborn infant is in an NICU.<sup>6,7</sup> Concerns about the prognosis, i.e., uncertainties about the well-being and about long-term outcomes regarding the child's health add to these sources of stress. Loss of parental competence can negatively and prematurely interfere with parent-child relationships, being the major stress factor to parents of preterm infants.<sup>2-5,8,9</sup>

Variables related to the environment and to the NICU workers are included in this whole situation experienced by parents, who should not only have to adapt to a high-tech hospital environment, but also come to terms with being parents in a collective and unknown place.<sup>10</sup>

Therefore, the emotional stress of childbirth and the perception of parents that their child is different from a healthy newborn, recognizing their image as "special" for having survived admission to the NICU and "vulnerable" for the fear of future sequelae, lead to compensatory parenting, with influence on the parent-child relationships.

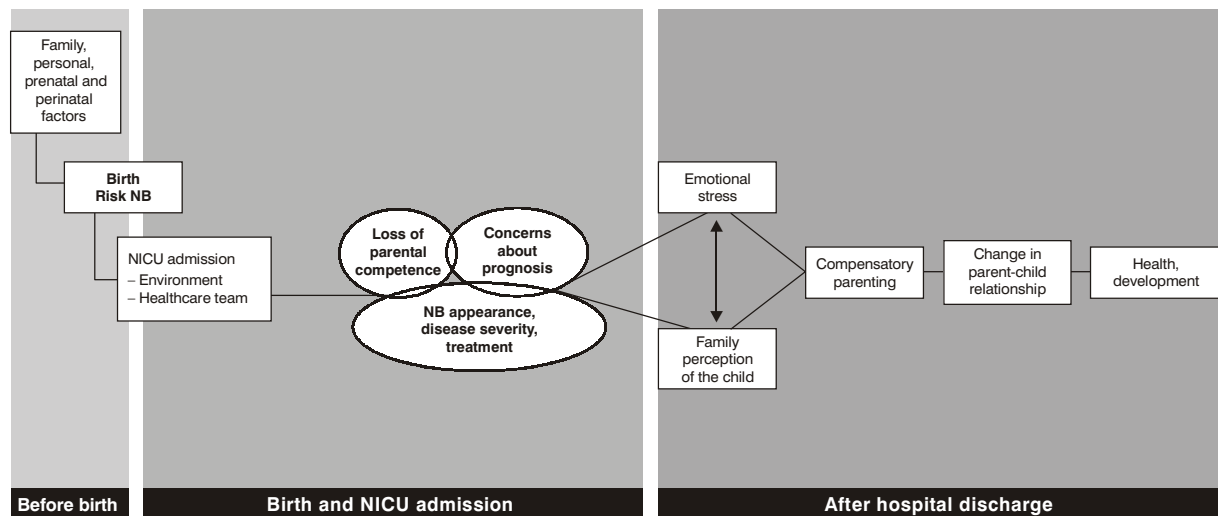
A wrong perception makes parents overprotect<sup>11</sup> their children, since they tend to focus more on their deficiencies and vulnerability than on their virtues. This change in parenting style can influence children's health and development.<sup>8,12</sup>

The quality of the family environment has a larger predictive value for children's neuropsychomotor development than perinatal risks.<sup>8,12</sup> Factors such as high level of family stress, low maternal responsiveness, and impaired parental competence, seem to play a direct role in children's development.<sup>13</sup>

There are two types of support to parents of risk newborns in the NICU: formal support, provided by some healthcare workers, and informal support, provided by the family and friends.<sup>14</sup>

The literature highlights the role of healthcare workers in mobilizing and strengthening family resources by implementing support groups, as a way to organize the work in the NICU, meeting the needs of newborn infants, and giving parents the opportunity to deal with the birth of their child and to cope with his/her hospitalization.<sup>15</sup> Ideally, this group should be interdisciplinary, including a neonatologist, a nurse, a psychologist, and other health professionals.<sup>16-19</sup>

Several NICUs have a support group.<sup>14,17-19</sup> Participants interact more with their children during the hospital stay and show greater interest in their development after hospital discharge.<sup>17,19</sup>



NB = newborn; NICU = neonatal intensive care unit.

**Figure 1** - Influence of birth and NICU admission of newborns on parents and family members (adapted from Miles & Holditch-Davis<sup>2</sup>)

At Hospital Prontolinda, a support group was created in 2001. In this regard, the study was carried out to investigate the influence of the support group on the family of risk newborns and on neonatal unit workers.

## Methods

A qualitative approach was used. According to Minayo,<sup>20</sup> this approach takes into account the effects of the meaning and intention of actions on relationships and social structures, investigating deep into social relationships, which cannot be measured by figures and variables. So, we chose family-centered care as theoretical basis. This type of care has been regarded by the Association for Children's Care as the philosophy of care that acknowledges and respects the pivotal role of family in the newborn's life. Its major components, as cited by Shelton et al.,<sup>21</sup> are described in Table 1.

The study was carried out at Hospital Prontolinda, a private tertiary care hospital for the treatment of risk mothers and newborns, located in Olinda, a town in the Metropolitan Area of Recife, state of Pernambuco, Brazil.

After admission of the newborn to the NICU, the family members are invited to join the support group, whose interdisciplinary team includes a neonatologist, a nurse, a psychologist, a breastfeeding expert, in addition to the main researcher (Virginia Buarque). In the sequential group meetings, held every week, these professionals address issues related to the necessities of family members (Table 2).

For methodological rigor, the triangulation method, based on Denzin,<sup>22</sup> was used. Special emphasis was given to the speeches and actions of family members and healthcare workers. The investigation was based on the observation of support group meetings (with note-taking of the adherence and participation of family members and

healthcare workers in the meetings, of discussed topics, of the interaction between participants, and of their opinions and comments) and on an open interview, where the following question was asked: "What's your opinion about the family support group"? The interviews were conducted in a private place, had an average duration of 45 minutes, were tape-recorded, and carried out by the main researcher.

The inclusion criteria were the following: being a volunteer participant; having a newborn infant who required admission to the NICU for 7 or more days; participating in at least three meetings; having an established date for hospital discharge, moment in which newborns and families will have gone through the different stages of hospitalization. Parents or relatives of newborns whose neonatologist was the main researcher were excluded from the study.

The selected healthcare workers were those who spent more time with families in the NICU and who concomitantly worked at other private hospitals, with a similar healthcare structure to that of the investigated hospital. The only difference was that they could miss some support group meetings, being therefore able to compare their involvement with families in the NICU with and without the help of the support group.

Following these criteria and the sampling principles adopted for qualitative research<sup>20</sup> (giving privilege to social subjects that are important to the in-depth analysis and understanding of the problem being investigated, and data saturation), we interviewed 13 mothers, six fathers, two grandmothers and 16 healthcare workers. The study was approved by the Research Ethics Committee of the Center for Health Sciences (Centro de Ciências da Saúde) and an informed consent form was obtained.

The interviews were submitted to speech content analysis (thematic modality)<sup>23</sup> and some speeches were presented for illustration.

**Table 1 -** Major components of family-centered care, cited by Shelton et al.<sup>21</sup>

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Acknowledging the family as the constant in a child's life
Developing collaborative work between parents and the NICU staff
Sharing complete and reliable information about the newborn with the family
Respecting the individuality, strength, and coping ability of the family
Respecting racial, ethnic, cultural and socioeconomic diversities of the families
Encouraging parent-to-parent support during the NICU stay
Enabling parent's participation and skills in caring for the newborn in the NICU
Planning flexible, accessible programs that meet the needs of the family
Ensuring emotional and financial support to the families

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NICU = neonatal intensive care unit.

**Table 2** - Issues discussed in the support group meetings in the neonatal unit of Hospital Prontolinda

Discussed issues	Professional in charge
1. Characteristics of risk NB Explaining the meaning of risk NB Causes of their birth Nursery ward specific to these NB - NICU Standards and routine practices of an NICU	Neonatologist Neonatologist Neonatologist Nurse
2. Adaptation after the birth and during the NICU stay of a risk NB Allowing parents to express their feelings, guilt, fears, uncertainty, current and future risks Adapting the image of a risk NB to that of an ideal child Bonding with the child Separation moments: at birth, during NICU stay, and after the mother's hospital discharge	Psychologist and researcher  Psychologist Psychologist Psychologist
3. Information about diagnosis, treatment, outcome, and prognosis Common problems of risk NB: thermal regulation, respiratory disorders, infections, feeding difficulty, among others Importance of breastfeeding Special situations: malformations, heart diseases, genetic disorders, etc. Situations that pose high risk of death	Neonatologist  Breastfeeding expert Neonatologist and researcher Researcher and psychologist
4. Preparation of parents and family to care for their child Family perception of risk NB Participation of parents in the care of their child in the NICU under the guidance of healthcare workers Kangaroo mother care, information and video presentation	Neonatologist Nurse  Neonatologist, psychologist and breastfeeding expert
5. Interaction between parents, family members and NICU workers During the NICU stay, sharing experience between parents in order to help new members Photo album of NB: "before and after" During rooming-in At hospital discharge (celebration) After hospital discharge: "parent-to-parent support"  Goals of the support group for parents	Neonatologist and researcher  Neonatologist Neonatologist All Volunteer parents and family members of the support group Neonatologist
6. Writing down the participants' opinions Comments, criticisms, suggestions, etc. Messages from parents and family members to their children – "Little Messages from the Heart"	Neonatologist and nurse Neonatologist and nurse

NB = newborn; NICU = neonatal intensive care unit.

## Results and discussion

From January to June 2004, 25 family support group meetings were held, with larger participation of mothers (73 times), than of fathers (27 times) and grandmothers (26 times). Of these family members, 21 met the inclusion criteria and were interviewed.

Among the newborns included in the study, 85.7% were preterm and 92.8% weighed less than 2,500 g at birth. Hospital stay ranged from 14 days to 5 months, 50% had a severe outcome, and 78.6% were discharged from hospital.

Of the healthcare workers interviewed, 50% worked as nurse assistants, 25% as nurses and 25% as neonatologists. About 87.5% work in other NICUs. None of them had information about support groups of other NICUs.

Based on the perception of family members and of NICU workers about the meaning of support group, five key values were identified: information, emotion, qualification, strengthening and mutual learning.

The information value of the support group was highlighted in the first and third stages of group dynamics

with the definition of risk newborns, their peculiarities, development, prognosis, special situations (deaths and malformations), NICU standards and routine practices, etc. The information value reduces the concern of family members and calms them down.

– The neonatologist says: “Parents will be informed about the problems experienced by the babies and how they are reacting” (Field logbook).

– “You don’t refrain from explaining everything... you clear all doubts about what is happening to the baby and about NICU stuff... and you eventually calm parents down” (Mother 11).

– “Parents are more aware of the disease and of the necessity of their baby having to stay in the NICU and... they don’t suffer so much because they are aware of everything that is happening to their baby” (Nurse assistant 1).

The emotional value, correlated with the second stage of support group dynamics, was perceived by the discussion of issues related to parent’s adaptation after childbirth and during NICU admission and stay, allowing parents to express their feelings (fear, guilt, anger, uncertainty, etc.), and to tackle the difficulties related to the separation from and bonding with their child.

– “You get emotionally unstable... I blamed myself for what was happening... I was afraid of losing my daughter. (...) It was not only information about her health status I sought in the group, but the emotional aspect as well ... being able to speak out and being listened to... I felt more self-confident” (Mother 5).

– The mother (Mother 4) is being discharged from the maternity ward, but her son will have to stay in the NICU; she says: “I’m feeling awful!” (Field logbook).

– “With the support group, emotional support relieves stress... they have the chance to get it all off their chest” (Nurse 2).

The qualification value corresponds to the fourth stage of support group dynamics, where the family members get prepared for taking care of the newborn infants in different stages of their lives under the guidance of the NICU staff.

– “That moment in the support group was important because, if all that information hadn’t been provided, it would’ve been harder for her (the mother) to take care of her preterm baby, and eventually she didn’t have any difficulty whatsoever” (Grandmother 1 newborn 4).

– “I feel safe enough to go home now, this was actually a learning experience for me... I learned how to take care of my daughter” (Mother 10).

For healthcare workers, qualification is a routine practice that is inserted in neonatal care, and it is not directly correlated with and dependent upon the support group dynamics.

The strengthening value of the support group involves sharing different experiences between family members and their newborn infants during their different developmental stages, and also between family members and the NICU staff.

– “I found it interesting to exchange feelings... this gives you a lot of strength. (...) Listening to and being open to other parent’s opinions. (...) The group provides such support” (Father 2 newborn 5).

– One of the participants (Mother 10) said: “Several times, I gained strength from the statements of more experienced mothers in the group” (Field logbook).

– “It is a time when families can sit down, talk about their experience, share it with other people who are going through the same ordeals... share their experience with healthcare workers... families become stronger” (Neonatologist 2).

With regard to the value of mutual learning between families and healthcare workers, several other values were cited: trust, hope, safety, truth, honesty, respect, attention, consideration, compassion, helpfulness, affection, friendship, esteem, acceptance, motivation, humanization, empathy, harmony, among others.

– “They make ourselves comfortable... give us the opportunity to speak out. (...) Affection, attention, caring (...) and respect towards family members... being able to speak the truth, this set me at ease, after that I found trust and self-confidence” (Grandmother 1 newborn 4).

– “In the group, we perceive the participation of the health team. I felt safe and welcome,” says the father (Father 8) (Field logbook).

– “Everybody learns there. (...) I feel parents get more confident and respect more our work... I feel their trust... we work in harmony” (Nursing assistant 2).

Obviously, the kind of support given during the support group meetings to families that have to cope with the admission of their children to the NICU depends on the status of each newborn, if he/she is in the acute or chronic stage, or on the severity of his/her condition.<sup>16</sup>

After childbirth and during the acute stage of NICU admission, parents and family members keep investigating further into the situation and gathering as much information as possible about the newborn. Based on the issues discussed in the support group, their perceptions about their child are down-to-earth and minimally propelled by fantasies, provided that they are given regular, repeated, and careful information that is appropriate to their level of concern and understanding.

It is important to include not only the problems experienced by newborns, but also the positive aspects, instead of focusing on the equipment or on the disease. Thus, several authors have underscored the necessity of

accurate and up-to-date information so that family members can successfully adapt to the birth and NICU admission of their child and be reassured that the NICU has all the necessary technical resources, in addition to qualified professionals.<sup>24,25</sup>

On the other hand, the emotional value of the support group is related to neonatal care, which should prepare family members to cope with and adapt to the situation after the birth of their child and during the NICU stay. Parents remain observant of negative feelings throughout the crisis, and are able to express them verbally or by any other means by interacting with other families and with the NICU staff. Special attention should be given to the work developed by the psychologist, who addresses specific issues, and to the support from other parents and family members whose newborns are at different developmental stages.

Smith et al.<sup>16</sup> report that parents who participated in support groups remarkably reduced stress and their feelings of social isolation, interacted more with their child, improving their parenting skills, with positive effects on their child's development.<sup>8,9,15,17,25-27</sup>

Several authors, in consistency with the qualification value of the support group, have mentioned that the participation of parents in child care restores their competence and parental confidence; they are more responsive to the presence of their child, and there is more interaction between parents and children, and parents are more able to control their feelings during the stay of their child in the NICU.<sup>6,18,24,25,28</sup>

The parents of a chronically ill newborn experience feelings of uncertainty, because they do not know for sure whether their child will have a remarkable improvement, whether they will remain chronically ill, or whether they will die. Therefore, support should encompass information, emotional, strengthening and qualification aspects. These parents need less information and more emotional support, since they often feel isolated.<sup>16</sup> For Wiggins,<sup>24</sup> parents should be instructed to assess their child's process on a regular basis, perhaps weekly instead of daily, so that they can alleviate their feelings of frustration.

Among the activities developed in the support group to parents of chronically ill newborns, "parent-to-parent support" is a highlight. In this type of support, former participants bear their testimony and help these parents in an effective and consistent way, thus emphasizing the strengthening value of this approach to family members.<sup>6,29</sup> The participation of grandmothers is also of great importance, and certainly expands support to parents in the hospital and household environments.

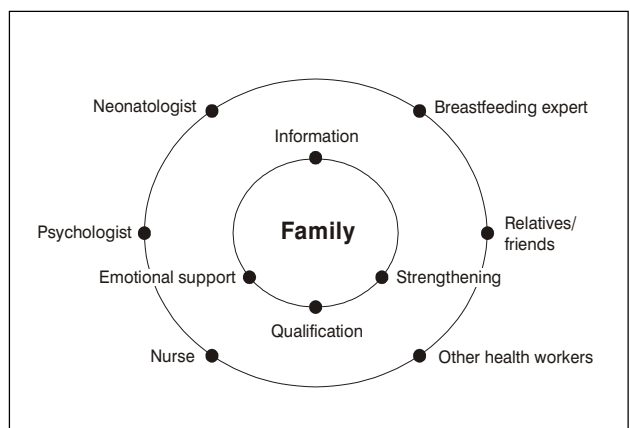
In situations in which newborns are at imminent risk of death, or when they die, the approach should be made at an individual level. Parents and family members recognize

the importance of information, emotional and strengthening values of the group support. Honest, repeated and up-to-date information about the unfavorable outcome of the newborn, the certainty that the child received appropriate care, and the concern about parent's well-being should be a constant throughout this stage.

In all development stages of the newborn, his/her family members interact with the NICU staff. The value of mutual learning concerns the process of taking care, which allows for effective interaction, with interpersonal growth between parents and NICU workers. Several authors have underscored the importance of interaction between parents, family members, and NICU staff, i.e., mutual collaboration and confidence with shared responsibility and limitations.<sup>17,18,27,28</sup>

Smith et al.<sup>16</sup> have pointed out the disadvantages of support groups that use only the formal approach. Possibly, listening to the experience of other parents in similarly traumatic situations may result in a larger emotional load for those who have been trying to control their own emotions. A more direct approach (from family members, for instance) would be more appropriate to these parents, since they would not have to return the support.

Figure 2 shows the model of family support group, based on the results of the present study. Family is the focus of attention which, in turn, provides help by developing strategies for emotional, strengthening and information support, enhancing the healthy perception about the birth and NICU admission of a risk newborn, in addition to restoring parental competence. The support group should use formal support, provided by an interdisciplinary team, and informal support, provided by family members, throughout the process. Intergenerational support<sup>30</sup> also plays a crucial role and so does parent-to-parent support.



**Figure 2 -** Model of family support used in the neonatal unit of Hospital Prontolinda

The work involving a support group to family members of risk newborns is based on the principles of family-centered care. These principles allow restoring parental competence, helping healthcare workers to respect the values and feelings of family members and enabling parents and healthcare workers to establish a partnership in neonatal care.

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