



Parents' Emotional and Social Experiences of Caring a Child with Cleft Lip and/or Palate

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ABSTRACT

Objective: To evaluate the emotional and social experiences of parents or caregivers of children with cleft lip and/or palate (CL/P) in a city in the Northeastern of Brazil. **Material and Methods:** A quantitative and cross-sectional study was conducted among parents or caregivers of children with CL/P by interviews based on a questionnaire. Interviews were conducted during the First Smile Project in Sobral, Ceará, Brazil. All participants (n=41) agreed to participate in the interview and signed an informed consent. The data was analyzed in SPSS software version 22.0. **Results:** The majority of participants were female (87.2%), with a mean age of 37 years, with a low level of education and low family income. The great majority (90.2%) of the parents were not prenatally diagnosed to have CL/P babies. Of those interviewed, 56.1% mentioned that the first diagnosis of cleft lip and palate was not presented by the professionals in a clarifying way to the family. Fear (36.6%) and sadness (19.5%) were the main feelings experienced when the child was diagnosed with fissure. Feeding (48.8%) was pointed out as the main concern in caring for a child with CL/P. **Conclusion:** The parents and caregivers interviewed faced important emotional and social problems that must be addressed by the professional team that assists the child with CL/P.

Keywords: Clef Palate; Cleft Lip; Emotions; Parents; Caregivers.

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Introduction

The cleft lip and/or palate (CL/P) is the most common congenital defect that occurs in the population. This defect has a prevalence ranging from 1:500 to 1:2,500 live births [1], and the incidence in cases that are not associated with syndromes is around 0.8 per 1,000 births [2].

Its etiology is multifactorial, consisting of a combination of genetic and environmental factors, including family history of CL/P, parental consanguinity, maternal alcohol consumption, infections, smoking, hypertension, low supplementation of vitamins and minerals and consumption of analgesics, antibiotics and antihypertensives during pregnancy [2,3].

Children with CL/P might experience long-term treatment from birth to young adulthood to treat consequences of the condition relating to both function and appearance [4] because CL/P outcomes occur in the surgical, speech, hearing, dental, psychosocial, and cognitive aspects [5]. Early dental care is particularly important for children with CL/P because oral health plays a significant role in cleft-related outcomes. Good oral health, ideally resulting from regular home oral hygiene and professional dental care, influences a child's ability to obtain timely and adequate orthodontic treatment, which is an essential component of the reconstructive process and required precursor to surgery for children with CL/P [5].

CL/P affects not just the child born with the condition, but also the child's parents. The timing of a child's diagnosis affects how parents cope and adapt. Prenatal diagnosis enables anticipatory guidance of the parents by professionals, which might improve the quality of the treatment received by the child and promote a better quality of life of the patient and family [6].

The literature reports various emotional reactions experienced by parents at the birth of a child with CL/P, such as shock, sadness, fear, grief, guilt, worry and anger, which may impact the families' lives [7]. Parents may wish to share their feelings and expectations and get emotional support from experienced professionals at the moment of the diagnosis, which may help them cope with these feelings properly and reorganize to meet the needs of their affected child [8].

Several studies have investigated the social and emotional difficulties among parents caring for children with clefts, such as anxiety, depression and poor psychological 'adjustment' [4,9-11]. However, there is still a lack of studies investigating these experiences faced by parents and/or caregivers of children with CL/P in Brazil. Thus, considering that a long-term treatment pathway is usually experienced with a psychological impact on parents [12], the present study aimed to evaluate the emotional and social experiences of parents or caregivers of children with CL/P in a city in the Northeastern of Brazil.

Material and Methods

Study Design

A quantitative, descriptive and cross-sectional study was conducted among parents or caregivers of children with CL/P by interviews based on a questionnaire.

Sample Selection

A convenience sampling was used for this study. Parents or caregivers that accompanied patients for oral clefts corrective surgery at the "Santa Casa de Misericórdia" Hospital in Sobral, Ceará, during a multiprofessional treatment campaign called "First Smile Project" were invited to participate in this study. The inclusion criteria were parents or caregivers who had at least 20 minutes to be interviewed. This hospital is a reference center in the care of patients with malformations of CL/P of the Northern region of the state of Ceará, Brazil. The city of Sobral is located in the state of Ceará, 235 km from the state capital, Fortaleza. It has an estimated population of 208,935 inhabitants and is considered the fifth most populous municipality in the state [13].

Pilot Study

A pilot study was carried out to assess the questionnaire proposed for the interview in order to verify if participants understood the questions asked. The questionnaire was designed by the authors and based on previous studies [3,10]. The parents or caregivers interviewed (n=12) on the pretest were not included in the final sample. In addition, this phase was also used as training for interviewers, who consisted of dental undergraduate students that were participants of a project from the Dental School of the Federal University of Ceará directed to patients with oral clefts.

Interview

All volunteers were interviewed during the days of the First Smile Campaign in the hospital during the screening of the patients by two calibrated interviewers.

The interview script consisted of a questionnaire with objective and subjective questions that aimed to address the emotional and social experiences of parents or caregivers of children with CL/P and how they dealt with such experiences. The questionnaire was composed of two parts: the first one, based on sociodemographic profile and pregnancy history, consisting of 20 questions, and the second one was related to the emotional and social experiences, which consisted of 15 questions, subdivided into four sections. The interviews were conducted in approximately 20 minutes in a private and quiet room of the hospital.

Data Analysis

Data were tabulated in Microsoft Excel and then analyzed using SPSS version 22.0 (IBM Corp., Armonk, NY, USA). Descriptive statistics was used (absolute and relative frequencies).

Ethical Aspects

The study design and informed consent were approved by the Ethics Committee of School of Medicine, Federal University of Ceará (Process# 87963418.9.0000.5054). Volunteers, who fulfilled inclusion criteria, took part in this study after signing an informed written consent.

Results

A total of 41 parents or caregivers were included in the study. The majority of the respondents were female (87.2%). It was observed that 43.9% of the interviewees were in the age range of 30 to 39 years, with a mean age of $35.15 (\pm 8.74)$ years. Regarding the educational level of parents/caregivers, 39% not completed primary education and 19.5% completed primary school. Regarding family income, 65.9% showed a minimum income less than or equal to a Brazilian minimum wage, approximately \$209 in this appraised period (Table 1).

According to the interviewees, 80.5% of the mothers received prenatal care. However, the great majority (90.2%; n=37) of the parents were not prenatally diagnosed to have CL/P babies. In only 9.8% of the cases, the child was born prematurely. Approximately 54% of the parents had a male affected child. Only 7.3% of the parents were close relatives. Moreover, 46.3% of the respondents reported having another family

member with CL/P. The majority of mothers (56.1%) did not use teratogenic substances during pregnancy; however, 12.2% consumed cigarettes and 7.3% alcohol during the gestational period (Table 2).

Variables	N (%)	
Age Distribution		
Up to 19 Years	2(4.9)	
20- 29 Years	8 (19.4)	
30- 39 Years	18 (43.9)	
40 or Older	10(24.4)	
Did not Respond	3(7.3)	
Educational Level		
Illiterate	1(2.4)	
Not Completed Primary Education	16 (39.0)	
Completed Primary Education	8 (19.5)	
Not Completed High School	3(7.3)	
Completed High School	7 (17.1)	
Completed Undergraduate Education	1(2.4)	
Not Sure	5 (12.2)	
Family Income (Brazilian Minimum Wages)		
<1	15(36.6)	
1	12(29.3)	
1,5	4(9.8)	
≥ 2	3(7.3)	
Not Sure	7(17.1)	

Table 1. Socioeconomic characteristics of participating parents/caregivers.

Table 2. Distribution of respondents according to pregnancy history.

Variables	N (%)
Prenatal Care	
Yes	33 (80.5)
No	2(4.9)
Not Sure	6 (14.6)
CL/P Diagnosis	
After Birth	37(90.2)
During Prenatal	2(4.9)
Not Sure	2(4.9)
Gestational Period	
Full-term Birth (9 months)	34(82.9)
Premature Birth	4(9.8)
Not Sure	3(7.3)
Parental Consanguinity	
Yes	3(7.3)
No	26(63.4)
Did not Answer	12(29.3)
Familial Cases of Oral Clefts	
Yes	19(46.3)
No	20(48.8)
Not Sure	2(4.9)
Use of Teratogenic Substances	
Smoking	5 (12.2)
Alcohol Consumption	3(7.3)
Drugs	1(2.4)
Others	1(2.4)
Did not Use any Substances	23(56.1)
Not Sure	8 (19.5)

When questioned about the diagnosis of the fissure, more than half of the respondents (56.1%) pointed out that it was presented in a clarifying way. However, 48.8% of the total respondents mentioned that they had never received an explanation about what oral clefts are. The majority of the participants (63.4%) stated that the first treatment option was corrective surgery of the fissure and 85.4% answered that they had an interest in seeking a dental service after cheiloplasty and/or palatoplasty (Table 3).

Variables	N (%)
Diagnosis was Given in a Clarifying Way	
Yes	23(56.1)
No	15(36.6)
Not Sure	3(7.3)
Prior Guidance on Oral Clefts	
Yes	19(46.3)
No	20(48.8)
Not Sure	2(4.9)
First Treatment Option	
Corrective Surgery	26(63.4)
Dentist	2(4.9)
Speech Therapist	1(2.4)
Pediatrician	1(2.4)
Psychologist	1(2.4)
Not Sure	10(24.4)
Dental Care Follow-up	
Yes	35 (85.4)
No	5(12.2)
Not Sure	1(2.4)

Table 3. Distribution according to information diagnosis, treatment and follow-up.

With regard to the feelings experienced by the parents or caregivers as soon after clefts' diagnosis, it was verified that 36.6% felt "Fear", 19.5% reported "Sadness", while 14.6% reported "Despair/Shock" and 12.2% reported a "Normality" situation. In 29.3% of cases, the family accepted the situation with normality; however, 26.8% were worried and 9.8% reacted negatively to the situation of a member with CL/P. The child diet was the main concern (48.8%) cited by parents/caregivers, followed by social relations (19.5%) and 9.8% indicated that there were no difficulties or concerns about the patient with CL/P (Table 4).

Variables	IN (70)			
Feelings Experienced by Parents/Caregivers				
Fear	15(36.6)			
Despair/Shock	6 (14.6)			
Denial	2(4.9)			
Sadness	8 (19.5)			
Resignation	1(2.4)			
Normality	5(12.2)			
Not Sure	4(9.8)			
Major Concerns with the Child				
Feeding Care	20(48.8)			
Social Relations	8 (19.5)			
Transport (Displacement for Treatment)	1(2.4)			
Allergic Reactions	1(2.4)			
Medical Follow-up	1(2.4)			
Nasal Voice	1(2.4)			

Table 4. Experienced feelings, major concerns and emotional reactions of caregivers and family.

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Corrective Surgery	2(4.9)		
No Difficulties	4(9.8)		
Not Sure	3(7.3)		
Family Reaction to Oral Clefts' Diagnosis			
Normality	12(29.3)		
Concern	11 (26.8)		
Disgust	2(4.9)		
Despair/Shock	1(2.4)		
Denial	4 (9.8)		
Sadness	4(9.8)		
Resignation	1(2.4)		
Not Sure	6(14.6)		

Discussion

The present study verified parents' emotional and social experiences of caring a child with CL/P. Parents or caregivers might experience a long-term child's treatment and face difficult situations in their complex journey. The feelings experienced by the participants of this study are in agreement with the literature since the main reactions reported by mothers were surprise, crying, shock, despair, denial, fear and other feelings [6,14]. Fear is still the main feeling that the family needs to deal with because the care and development of a child with CL/P may cause suffering and stress [14].

Most respondents indicated that feeding was the main concern. Feeding care is one of the most important difficulties that the family can face with the newborn [15]. In babies with CL/P, concerns are intensified due to abnormalities in face formation. Food intake in the first months of life may be compromised, resulting in many cases of child malnutrition [16]. Therefore, newborn feeding is largely difficult to perform in these patients. Many mothers still do not feel safe to cope with the challenges related to feeding a baby with CL/P [17]. This issue becomes even more relevant because when added to fear and lack of experience, these concerns intensify and maybe a limiting factor for a healthy and normal infant feeding [18].

This study showed that most parents/caregivers received CL/P diagnosis after the child's birth. However, early diagnosis is important to promote family contact with specialists, favoring knowledge of different feeding techniques, avoiding weaning in possible cases and allowing the planning of neonatal and therapeutic care [19,20].

Regarding the diagnosis, more than half of the interviewees stated that they were well informed about CL/P. In order to face and overcome the experiences and reactions, the family needs clarification and care, as well as continuous assistance by professionals from different areas who are prepared to listen sensitively, create a dialogue without denying the defect and highlight positive aspects [21,22]. Thus, this initial counseling should be performed with the parents to reduce parents/caregivers' expectations and promote psychological support to the family [23].

In the present study, participants showed surprise and fright, triggered by the diagnosis of CL/P at the time or after the baby's birth, as well as the lack or limited knowledge about this condition. However, the late diagnosis may justify the findings of this study, as shown previously [24]. In this way, quality care and assistance by many health professionals is an important way of a complete follow-up of these parents, providing basic care to the most advanced levels of care [25]. The psychological health of parents should also be emphasized in a coordinated multidisciplinary care [12].

It is known that children with clefts and their families may be "stigmatized" because of a perceived visible facial appearance and may have to deal with low levels of social support, experiencing discomfort,

anxiety or rejection [26]. This psychosocial adjustment may differ in parents of children with CL/P. Regarding gender, parents of boys have a greater perception of social support than girls' parents. Besides, in cases of high household income, the self-esteem and perception of social support are greater. Therefore, it is important to note that parents from poor households may be at greater risk for psychosocial problems [14].

The majority of participants stated that the first treatment option was corrective surgery of fissure, which is in accordance with a protocol established by a specialized hospital for craniofacial anomalies with 40 years of experience [27]. Furthermore, the treatment protocol for these patients also involves a surgical approach, including alveolar bone graft surgery and orthognathic surgery [28]. According to Boztepe et al. [29], the possibility of treatment, information delivery, and support by health professionals during pregnancy or after a child's birth reduced most concerns about the effectiveness of corrective fissure surgery. In the current study, most of the respondents pointed out that they are interested in seeking dental service after corrective surgery. Guidelines for dental care should persist and parents should be advised about the importance of early dental care [30]. It should be stressed that the monitoring by a pediatric and orthodontic dentist is essential to stimulate breastfeeding, maintain good oral health and diagnose/correct malocclusions [31].

Furthermore, it must be emphasized that patients with CL/P should receive a proper rehabilitation treatment with an interdisciplinary approach based on physiology, stability, aesthetics, hygiene conditions and the individual's expectations. Considering that children with CL/P may face speech problems due to the presence of fistula or an unrepaired palate, palatal prosthesis may be indicated as a treatment for velopharyngeal dysfunction [32]. Ideally, all patients with CL/P should be assessed preoperatively and postoperatively to evaluate the impact of dental and surgical procedures, considering that oral clefts can modify the stomatognathic system and cause functional disorders [33].

Among the limitations of this study, the participants were selected during a multi-professional treatment campaign according to a convenience sampling. Further studies are necessary to check whether a greater sample could achieve the same results. Also, a qualitative approach/research could probably provide a more in-depth analysis of parents' emotional and social responses in relation to experiences with a CL/P child.

Conclusion

The parents and caregivers interviewed faced important emotional and social problems that must be addressed by the professional team that assists the child with CL/P. Our findings support that parents or caregivers for children with CL/P are submitted to intense experiences and emotions that interfere significantly with their child care. Some relevant aspects were identified in this study: the emotional experiences of parents or caregivers; major difficulties and concerns about the development of the child diagnosed with CL/P. Finally, more research is necessary to explain how parents experience their child's longterm and complex treatment journey and describe parents' perspectives regarding this condition.

Authors' Contributions

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Conflict of Interest

The authors declare no conflicts of interest.

Data Availability

The data used to support the findings of this study can be made available upon request to the corresponding author.

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