

Difficulties in nutritional counseling and child growth follow-up: from a professional perspective

*Dificuldades no aconselhamento nutricional e acompanhamento do crescimento infantil:
perspectiva de profissionais*

*Dificultades sobre el asesoramiento nutricional y el acompañamiento del crecimiento infantil
según la perspectiva de profesionales*

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ABSTRACT

Introduction: Nutritional counseling and growth follow-up are priorities when providing care to children; however, these have not been completely incorporated into primary health care. **Objective:** To know the difficulties for providing nutritional counseling and child growth follow-up, from a professional healthcare perspective. **Method:** Qualitative study, using Donabedian as theoretical framework, developed by 53 professionals in the field of primary health care. Data was obtained from focal groups and submitted to content analysis. **Results:** The main difficulties for nutritional counseling were clustered in the category of 'perceptions and beliefs related to child feeding'. The 'problems of infrastructure and healthcare' and 'maintenance of the hegemonic medical model' are the main difficulties for following-up growth. **Final considerations:** Besides investments in infrastructure, healthcare training is indispensable considering beliefs and professional experiences, so in fact, nutritional counseling and child growth follow-up are incorporated in primary health care.

Descriptors: Child Nutrition; Childcare; Primary Health Care; Research, Qualitative; Nursing Primary Health Care.

RESUMO

Introdução: Aconselhamento nutricional e acompanhamento do crescimento são prioritários na assistência à criança, porém, ainda não estão plenamente incorporados na atenção básica. **Objetivo:** Conhecer as dificuldades para realizar aconselhamento nutricional e acompanhamento do crescimento infantil, na perspectiva de profissionais de saúde. **Método:** Estudo qualitativo, fundamentado no referencial de Donabedian, desenvolvido com 53 profissionais de saúde da atenção básica. Dados foram obtidos por grupos focais e submetidos à análise de conteúdo. **Resultados:** As principais dificuldades para o aconselhamento nutricional reuniram-se na categoria 'percepções e crenças relacionadas à alimentação infantil'. Para o acompanhamento do crescimento, as categorias 'problemas de infraestrutura e funcionamento dos serviços de saúde' e 'manutenção do modelo médico hegemônico' representaram as principais dificuldades. **Considerações finais:** Além de investimentos na infraestrutura, é imprescindível que capacitações em serviço considerem crenças e experiências dos profissionais para que, de fato, o aconselhamento nutricional e acompanhamento do crescimento infantil sejam incorporados na atenção básica.

Descritores: Nutrição da Criança; Cuidado da Criança; Enfermagem de Atenção Primária; Pesquisa Qualitativa; Atenção Primária à Saúde.

RESUMEN

Introducción: El asesoramiento nutricional y el acompañamiento del crecimiento son prioridad en la atención del niño aunque todavía no estén plenamente incorporados en la atención básica. **Objetivo:** Conocer las dificultades para desempeñar el asesoramiento nutricional

y el acompañamiento del crecimiento infantil según la perspectiva de los profesionales de la salud. **Método:** Estudio cualitativo, basado en el referencial de Donabedian, desarrollado con 53 profesionales de la salud en la atención básica. Los datos se obtuvieron mediante grupos focales y se sometieron al análisis de contenido. **Resultados:** Las principales dificultades sobre el asesoramiento nutricional se reunieron en la categoría 'percepciones y creencias relacionadas a la alimentación infantil'. En el acompañamiento del crecimiento, las categorías 'problemas de infraestructura y funcionamiento de los servicios de salud' y 'mantenimiento del modelo médico hegemónico' representaron las principales dificultades. **Consideraciones finales:** Además de la necesidad de invertir en infraestructura, es imprescindible que las capacitaciones en el servicio consideren las creencias y experiencias de los profesionales para que, de hecho, el asesoramiento nutricional y el acompañamiento del crecimiento infantil sean incorporados a la atención básica.

Descriptores: Nutrición del Niño; Cuidado del Niño; Enfermería de Atención Primaria; Investigación Cualitativa; Atención Primaria a la Salud.

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INTRODUCTION

Changes in food consumption behavior are one of the greatest problems in public healthcare nowadays on the world scenario. People in general have decreased their consumption of healthy foods, such as cereals and whole-grain products, as beans and vegetables, and have increasingly added more processed or ultra-processed products, rich in saturated fats, sodium, and refined carbohydrates⁽¹⁾. These changes have directly affected the nutritional profile of the general population, including important reflections on the health of children, such as increased nutritional disturbances and their consequences. There are an estimated 42 million overweight children under the age of five years old and even 156 million who suffer from chronic malnutrition⁽²⁾. Overweight and malnutrition affects 7.3% people and 7.0% of children in Brazil in this age range, respectively⁽³⁾.

There are enough evidences showing that nutritional disorders in childhood is linked to increased mortality, infectious diseases, decreased growth, and psychomotor development, decreased educational achievement, and lower productive capacity in adulthood⁽⁴⁾.

For these reasons, based on the scope of health assistance for children in primary health care, nutritional counseling and growth follow-up are emphasized – as this is our focus in this study – exactly because early detection of nutritional changes makes interventions possible in a timely manner and contributes to providing the opportunity so the child is provided the opportunity to fully develop his/her potential⁽⁵⁾.

Healthy eating habits in childhood are known to constitute the basis for achieving the maximum growth and development potential. Health professionals, especially the nursing staff, and community healthcare agents, take on an important responsibility in fostering maternal practices, guiding choices, preparation, and supplying foods that are healthy, convenient, and based on cultural aspects of the population⁽⁶⁻⁷⁾.

Regarding child growth follow-up, this has been recommended as the main route in children's healthcare since the decade of the 1970s, remaining as an important initiative for reducing morbid-mortality and promoting healthy children⁽⁵⁾. Besides that, it is also one of the quality indicators on children's health assistance in the context of primary health care in the National Healthcare System⁽⁸⁾.

In spite of being considered as low-cost procedures and easily achievable in healthcare services, studies have shown

diverse problems in putting such practices into effect, such as the scarcity of knowledge, and the unpreparedness of health-care professionals to deal with maternal breastfeeding⁽⁹⁾ and feeding children under one year old⁽¹⁰⁾, infrequent records in the Child Health Booklet⁽¹¹⁾, difficulties in performing and interpreting growth curves⁽¹²⁾, as well as service infrastructure problems, as the minimum equipment, such as scales and anthropometers are unavailable for following up growth⁽¹³⁾.

All of these problems make us believe that nutritional counseling and child growth follow-up are not fully incorporated in the medical care practice. However, there is no knowledge from the perspective of primary health care professionals on these issues. Thus, the objective of this study was to become aware of the difficulties in performing nutritional counseling and child growth follow-up, from the perspective of primary health care professionals.

METHOD

Ethical aspects

All the recommended ethical requirements for research on human beings have been assured. There was a greater project that had as objective to evaluate the effect of training on nutritional counseling in professional practices, nutrition, growth, and child development; this was approved by the Research Ethics Committee and the Municipal Health Board. After presenting the objectives from the study and clarifications, all the health professionals who accepted participation in the study signed the Consent Form.

Theoretical framework

The study was based on the evaluation of the quality of the healthcare proposed by Avedis Donabedian, which follows the triad: *Structure, Process, and Result*. *Structure* is related to conditions and physical, human, and organization resources, on which healthcare is established, including facilities, equipment, funding, and quality of labor; *Process* refers to the interrelationship between the care provider and care receiver and this involves the entire dynamics of healthcare; and, the *Result* is the product of assistance⁽¹⁴⁾.

Type of study

Exploratory and descriptive research with qualitative approach.

Methodological procedures

The study was conducted in a small-sized town in the state of São Paulo, with an estimated population of 48 thousand

inhabitants and in a primary health care network composed by 12 health units from which eight of them were traditional basic units, three Family Health Strategy units, and one was a mixed unit. At the time the study was performed, there were 85 primary health care professionals (13 physicians, 12 nurses, 26 nursing technicians/nursing assistants – NA, and 32 community health agents – CHA) who were linked to the municipal basis care network.

All the health professionals were invited to participate in a training course on nutritional counseling and research. Even though the training workshop scheduling had been organized by the Municipal Health Board so that all professionals could participate, and thus it would not interfere in attending at the health units, the study effectively counted on the participation of 53 professionals (62.4% of the total number), as there were 11 nurses, 14 NA, and 28 CHA. The CHA were included as they were part of the primary health care teams, and due to their important role in promoting the health of children, especially in the recommendation of appropriate and healthy eating practices⁽⁶⁻⁷⁾. No physicians participated in the study, justified by their impossibility to organize their scheduling.

Four training workshops were held on nutritional counseling in the period from September /2013 to February/2014, with a total of 16 hours of classes spread out on two non-consecutive days. The following themes were covered: ten steps for healthy eating for children under two years old, communication techniques for nutritional counseling, growth evaluation and child development, main nutritional disorders in childhood and using the Child Health Booklet.

Collection and organizing data

The data from this study have been collected during the training workshops on nutritional counseling through focal groups, a technique which allows the collection of the perception from participants on a specific subject, in sessions with groups composed by 5 to 15 participants, with a moderator who introduces subjects, so that the group is exposed to ideas and opinions. Thereby, more in-depth contents, including diversified answers and a wealth of details and information⁽¹⁵⁾.

At the end of each workshop period (morning and afternoon), the participants were invited to discuss their experiences on the work routines based on a leading subject that had been unfolded from each subject covered in the training: “What difficulties have you faced in performing the nutritional counseling and growth follow-up provided in child assistance?”

There was a total of 16 focal groups held lasting around 40 minutes each, which were completely recorded, transcribed, and organized using the webQDA software support.

Data analysis

The data was submitted to the analysis of content, performed by exhaustive reading of material seeking nuclei of meaning for the identification of categories and empirical sub-categories⁽¹⁶⁾. The participants were identified by the letters N (Nurse), NA (Nursing Assistant), and CHA (Community Health Agent), followed by numbers from 1 to 53, in order to maintain anonymity.

The tag cloud technique was used for aiding in data analysis, making it possible to construct a figure composed by different sized words, organized from the center to the borders, based on the frequency of the appearance in the analyzed text. The figure made possible to perform a graphic validation of the content analysis and it can be easily performed through internet sites, such as Tagul, used in this study (<https://tagul.com>).

RESULTS

The 53 health professional participants in the study were female, ranging from 25 to 58 years old and who had worked in primary health care for 4.5 years on an average. Only two participants commented that they had received some health-care training on child feeding.

Chart 1 displays the *Process* and *Structure* components based on the categories and subcategories extracted from the content analysis. The *Result* component was not identified in the analysis.

Chart 1 – Evaluation components, content analysis categories, and subcategories based on the target groups, a small-sized town in the São Paulo State, Brazil, 2013-2014

Evaluation component *	Categories	Subcategories
Difficulties for performing nutritional counseling		
Process	Perceptions and beliefs related to child feeding	Social, economic, and cultural conditions of the population Mothers working outside of the home Consumption of industrialized foods Personal experiences in child feeding
Difficulties in following up child growth		
Structure	Infrastructure and healthcare And the operation of health services	Inadequate physical care structure Not enough equipment and printed forms for serving the population Conflicts among mothers and professionals related to the healthcare unit organization/operation
Structure and Process	Maintenance of the hegemonic medical model	Valorization of medical assistance Devalorization of Nursing and Community Health Agents

Note: *Based on the evaluation reference of the quality of the healthcare proposed by Avedis Donabedian, which is based on the following triad: Structure, Process, and Result ⁽¹⁴⁾.

Regarding the difficulties in performing nutritional counseling, content analysis proved that the category ‘Perceptions and beliefs related to child feeding’ is related to the *Process* component. The ‘infrastructure healthcare’ and the ‘operation

perception that they have based on the nutritional condition of the child. Based on this scope, we wish to stress that there are mothers who find it difficult to recognize the nutritional condition of their children, especially those who are overweight, underestimating⁽²³⁾, that way they can encourage increased food consumption.

There are even the perceptions and beliefs of professionals related to child alimentation, thus it is important to stress that although they do not agree with some recommendations, professionals confirm their experiences and beliefs do not exert an impact on their practices in nutritional counseling. There has been a conflict noticed between real life experience and scientific knowledge, as it is possible that the former prevails. Qualitative study developed by physicians and nurses on the difficulty encountered in dealing with alimentation problems also identified conflicts among theoretical knowledge and the practical experience of professionals⁽²⁴⁾. However, it is necessary to consider issues related to alimentation involve memories and awaken different feelings and, maybe due to this, these aspects have been insufficiently explored.

Regarding the difficulties in following up child growth, there are precarious conditions in the facilities and a lack of equipment, including printed forms, from the professional perspective, as these were pointed out as recurrent problems in healthcare services. Surprisingly, there have been studies performed in 41 municipalities for a decade in seven States in the Northeast and Southern regions of Brazil that have already reported on their precariousness and faulty supply of physical infrastructure at healthcare units⁽¹³⁾, as this seems to still be a reality nowadays.

Quantifying the portion of the *Structural* component based on the final quality of healthcare provided is not a simple task, but there is evidence that the quality of the healthcare is better when the *Structure* is more adequate⁽¹⁴⁾. The study has evaluated the perception of 397 Canadian nurses on the quality of the healthcare and the professional satisfaction showed that the working environments equipped with adequate structure is directly related to professional satisfaction in healthcare services, which favors the quality of the healthcare⁽²⁵⁾. Thus, so that growth follow-up is completely incorporated in primary health care, it is necessary to make investments in the infrastructure of services, as well as professional training.

Another aspect revealed by professionals, such as the difficulty in growth follow-up that referred to the lack of CHB, although, the filling in and the usage of this instrument do not take place adequately, especially related to growth and development charts⁽¹¹⁾. Additionally, based on the perception of professionals, mothers do not use the CHB and do not value them, the same way the professionals themselves do, as that contributes to following up child growth that does not occur as recommended, thereby hindering the early detection of easily avoidable problems.

The results also showed discontentment and conflicting situations among mothers and professionals arising from the organization and operation of the healthcare services, especially regarding the pressure for an immediate appointment. Such dissatisfaction caused by the flow of care provided and conflicting relations among professionals and healthcare users represent a recurring condition and a complex solution, as verified by the systematic review of qualitative studies that analyzed humanization practices in primary health care⁽²⁶⁾.

The valorization of the physician, in detriment to other staff members, such as nurses and CHA, stressed in what has been said and the word cloud, as well as the other difficulty concerning nutritional counseling and growth follow-up. In fact, the hegemonic model, which is centralized in medical practice, does not valorize nor recognize the nucleus of nursing competencies and their autonomy in their care, as this makes this professional more removed from the healthcare productive process⁽²⁷⁾. However, the sustainment of this model has been verified and also is maintained by the professionals themselves, that is reinforced when they cannot make clinical decisions and do not take on the responsibility of healthcare within their legal powers. It is possible that such behavior is a remnant from, the historical development that has characterized nursing as a submissive practice⁽²⁸⁾. It is worthwhile to stress that no doctor has participated in training, although the administrators have organized schedules for everyone to participate.

Related to CHA, as they reside in the same territory, this is added to the fact, as these professionals suffer from embarrassment and resistance from the population in performing their activities⁽²⁹⁾. Besides that, there is evidence that, although they represent the link between the community and healthcare services, the CHA themselves do not recognize their importance, thereby detracting from and limiting their initiatives⁽³⁰⁾. The entirety of the healthcare of a child demands, however, care from all professionals, each on fulfilling his/her own mission, with shared action, to understand the peculiar growth characteristics and the development of the child.

Study limitations

Considering that nutritional counseling involves the social and individual context of families, only being aware of the difficulties from the professional perspective can be a limitation to this study. However, the results point out the need for further studies to evaluate the perspective from multiple players implied in this process, such as administrators, physicians, nutritionists, and the mothers/caregivers/families themselves.

Contribution to the field of nursing

The results have brought out that, besides the healthcare training courses, there needs to be investments in basic infrastructure, so that, the nurses in fact and their staff incorporate nutritional counseling and child growth follow-up in their routine services.

FINAL CONSIDERATIONS

Difficulties have been verified for providing nutritional counseling and growth follow-up referring to the perceptions and beliefs of professionals regarding eating practices of the population and their own experiences in child feeding, as well as the problems in infrastructure and the operation of services, and also the maintenance of the medical hegemonic model.

In order to achieve effective incorporation of nutritional counseling and child growth follow-up in the routine primary health care services and, thus improve the overall healthcare of children, there must be investments focused on the *Structure* component. However, healthcare training is indispensable,

having a critical and reflective approach on healthcare professional practice and, above all, consider their beliefs and personal experiences, as qualified professionals inserted in healthcare services along with an adequate structure results in *Process* enhancements, or in other words, in the healthcare dynamics and, consequently, in *Results*, healthy children.

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