Research with children and adolescents with chronic disease and their families: barriers and facilitators

Abstract
Chronic diseases represent a high cost, requiring adaptations and an efficient health system. On child health, little has been invested in the production of new knowledge. This article purposes to describe the experience of some researchers from a reference center in the care of rare diseases. Research with children and adolescents requires a playful environment. In addition, it is necessary to understand that the protagonist of the study is the child and the adolescent. The experience of the researchers at the reference center is based on a data collection field inserted in the routine of daily and regular appointments. The waiting room is the great facilitator of the research, with library, games and music, enabling the adherence and participation of both the patient and their guardian. The researchers also use empathy when inviting children and adolescents to participate in the research and privilege the creation of bonds with patients. The child’s role in research promotes the need to adapt both the physical space and the approach, which would favor the scarcity of these studies. However, even with these singularities, research on chronic pediatric patients is important, given the relevance of these patients’ participation in the health sector budget, both in national and international settings.

Keywords: chronic diseases, child, adolescents, researcher-subject relations

Introduction
Chronic diseases represent a high cost for patients and their families, requiring adaptations and an efficient health system. In addition, children with chronic diseases, even if rare, represent an overload for the Unified Health System (SUS) through their hospital expenses. Therefore, research on these pathologies is necessary, since their results contribute to the improvement of symptoms, survival and quality of life of these patients, consequently reducing expenses with these individuals. However, the Brazilian literature that systematizes the patterns of use of technologies and medical costs is still scarce. On child health, little has been invested in the production of new knowledge. In recent years, in general, pediatric treatments are based on personal experiences, case reports, expert recommendations or small clinical trials that cannot be generalized to many children. Thus, researchers and ethics committees are exposed to a double challenge, the vast majority of research subjects are extremely vulnerable due to social, cultural and economic conditions. This barrier is aggravated in pediatric research, as caregivers are responsible for consenting the child’s or adolescent’s participation in the study. The purpose of this article is to describe the experience of some researchers from a reference center in the care of rare diseases in the state of Rio de Janeiro, Brazil.

Field research
Research with children and adolescents requires a specific data collection field, where questions and assessments are carried out together with games in a playful environment. Convincing the child to participate in a survey requires more empathy and more flexible conduct. The prevalence of chronic diseases in children is low, even though it is constantly increasing and often, the same child participates in several studies at the same time. It is then necessary for researchers to come together to minimize the number of approaches. When the studies are similar, a single approach for two or more researches may be possible, always preserving the confidentiality of the data. In addition, the field needs to adapt to the presence of the child or adolescent’s caregiver. The main challenge during the consent process is to ensure an adequate understanding of the individual, especially in a country where the majority of research subjects are extremely vulnerable due to social, cultural and economic conditions. This barrier is aggravated in pediatric research, as caregivers are responsible for consenting the child’s or adolescent’s participation in the study. The purpose of this article is to describe the experience of some researchers from a reference center in the care of rare diseases in the state of Rio de Janeiro, Brazil.

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collection for the evaluation of his research subjects, so that there is no bias of external interference. The experience of the researchers at the reference center is based on a data collection field inserted in the routine of daily and regular appointments previously scheduled. The waiting room is the great facilitator of the research, as it contains a library, games and music, enabling the adherence and participation of both the patient and their guardian. In addition, the researchers use a single approach for various researches, optimizing the time spent by families in the hospital.

Research subject in pediatrics

In pediatric research, it is necessary to understand that the protagonist of the study is the child and the adolescent. Thus, it is necessary to listen to the patient. Sometimes, the collection time needs to be increased so that the child or adolescent can understand, consent and participate in the research. Research needs to provide enough time for the subject to be able to expose their opinions and ideas without feeling just the object of research. In addition, creating a bond and trust between the researcher and the child is essential. This bond will only occur if the researcher shows interest in listening and understanding the child or adolescent. The researchers in question use empathy when inviting children and adolescents to participate in the research and privilege the creation of bonds with patients, as well as with caregivers. Participation is voluntary and the research subject can withdraw from research at any time, always preserving their autonomy. Additionally, the researchers offer feedback on the research, through examination reports and presentation of results. Thus, families are able to understand the real reason for the study and the benefits it offers to the population.

Family participation in research with children and adolescents

Family members have the role of caring for and protecting children and adolescents who are in their care. As a result, barriers or facilitating actions may arise on the part of family members in collecting data from research subjects. Some family members yearn for the research to know the importance and benefits that the study will promote in the treatment of the disease. Therefore, the guardians become great facilitators for researchers in obtaining trust and bond with the child. However, this assistance can sometimes interfere to the point of creating bias in data collection. There are family members who, believing that they are doing the best for the child under their responsibility, refuse to participate in the studies proposed because they are unaware of the research in its entirety and of the benefits it may bring to the evolution of the treatment. Many have fears and anxieties about what research may do to their children. Thus, the guardians refuse to grant the children’s participation in the research. Some family members also refuse to participate in the research because they find it tiring and expensive, since the majority of this population lives far from the reference center and because they already have a routine of care that requires a daily expenditure of time.

Conclusion

The child’s role in research promotes the need to adapt both the physical space and the approach, which would favor the scarcity of these studies. However, even with these singularities, research on chronic pediatric patients is important, given the relevance of these patients’ participation in the health sector budget, both in national and international settings.

Acknowledgments

None.

Conflicts of interest

The author declares there is no conflict of interest.

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