Socioeconomic and Demographic Profile of Children and Adolescents with Chronic Disease: Integrative Literature Review

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Abstract

Objective: to analyze the scientific literature about the socio-economic profile of children and adolescents with chronic disease.

Method: This is an integrative literature review held from October 2015 to April 2016, through the virtual libraries LILACS, PUBMED and SciELO considering published studies in Spanish, English or Portuguese languages, using the following keywords: children; adolescent; chronic disease; chronic illness, factors socioeconomics.

Results: were selected and analyzed 18 articles that meet the inclusion criteria of this study. It was noted that the scientific publications describe the demographic profile and social and economic variables of children and adolescents with chronic diseases, in a secondary manner, based on a specific chronic disease.

Conclusion: it's relevant and necessary consider to describe in detail the socioeconomic profile of children and adolescents with chronic diseases so that other elements such as risk and social vulnerability can be included in the integral care process to this clientele.

Keywords
Children; Adolescent; Chronic Disease; Chronic Illness, Factors Socioeconomics.

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Introduction

Many developing countries have experienced a demographic transition, characterized by falling in the mortality and birth rates, combined with increased life expectancy. This change was due to the reduction of premature deaths and reducing child mortality, reflected by the improvement of the population’s quality of life, the advancement of medical technology, the creation of public health programs, access to basic sanitation and improved personal hygiene [1, 2].

In this sense, with the control of infectious diseases, there have been changes in the profile of morbidities in society and therefore people’s living conditions began to be determined mainly by issues related to external factors (environmental, social, economic, habits and lifestyle) [3]. This reality causes changes in the health-disease, which trend of acute and infectious diseases shall be replaced by chronic diseases, thus characterizing the current reality of the epidemiological transition.

According to the World Health Organization (WHO), chronic diseases are defined as diseases that have extended time to their complete installation, with origin at young ages, and in a greater proportion, influenced by the individual living conditions. More specifically, in children and adolescents, chronic diseases are conditions with durability of three months or more, which interfere with the routine of the same, may cause hospitalizations for more than a month [4].

Basically, diseases are divided between communicable and non-communicable chronic diseases. This form of division is widely used in epidemiology. Therefore, it is not as favorable now to link them with health care systems, since certain communicable and acute diseases, which have long life (HIV/AIDS, Tuberculosis, Leprosy), are classified as chronic diseases. Furthermore, it excludes other pathophysiological conditions that are not disease, but are chronic. With this, a new categorization emerged, developed by theoreticians linked to the chronic care model and recognized by the WHO: acute and chronic conditions [2].

Chronic conditions lead to many symptoms and tend to reduce the individual’s quality of life, as its duration is long, more than three months, and in some cases they present their selfies definitively and permanently. Generate a vicious cycle of symptoms, causing a muscular tension that leads to pain, stress and anxiety, causing emotional problems, which leads to fatigue and feeds the chronic condition [2]. In this perspective, chronic diseases include non-communicable diseases, persistent communicable, long-term mental disorders and continuous physical/structural disabilities.

Various types of chronic diseases are discovered or developed in childhood, interfering in the family universe, requiring family members of a medical, social and psychological assistance. This interference may cause implications for the quality of life of all family [5].

With this, the whole family is mobilized so can get the treatment and proper care. Sometimes this condition causes stress, overload, anxiety and changes in family routine, shaking thus the structure, relationship and family dynamics. It is known, however, that a good family life is directly related to the quality of life and well-being of children/adolescents with chronic disease, since a good family functioning, comprehend a good adaptation and disease confrontation [6, 7].

Having a child/adolescent with chronic illness in the family environment, by itself, comprehend an overload on the family, but the management of this condition is linked to several factors, among them, have socioeconomic (family income, education level, employment status, among others). Studies show that lower socioeconomic levels have negatively interfered in family functioning, bringing results as marital conflict, parental stress, difficulties of managing the disease because of limited resources to purchase medications, access to health services; as well as the family’s education...
level, influencing the prevention and management of crises [6-8].

Taking the context above into account, it is observed that many social and economic factors can influence the emergence and maintenance of chronic diseases. Nonetheless, several of them can be prevented and controlled, however, one needs to know what these factors are and how to interfere, so that can be able to intervene and understand the problem more fully and effectively. In this sense, it is important to trace the socioeconomic profile that characterizes children/adolescents with chronic diseases in health services, in order to develop strategies based on the needs of each family and to provide a more targeted and qualified care to all involved in the health-disease.

Therefore, this study aims to analyze the scientific literature on the socioeconomic profile of children and adolescents with chronic disease, in order to support reflection and improvement of health strategies.

Methods
This is an integrative literature review conducted in virtual libraries Latin American and Caribbean Social and Health Sciences (LILACS), National Library of Medicine (PubMed) and Scientific Electronic Library Online (SciELO), from October 2015 to April 2016.

Were used the descriptors combined to proceed the searches in the bases: children; adolescent; chronic disease; chronic illness, socioeconomic factors, all considered as descriptors in the DECs and MESH. Was applied to the result of the base, publications of the last 10 years (2005-2015), and the languages English, Portuguese and Spanish, as well as the availability of access to the summary/abstract. The main question adopted for this study was: what was produced in the scientific literature on the socioeconomic profile of children and/or adolescents with chronic disease?

Inclusion criteria were: to contain as subject of study questions about the description of the socioeconomic profile of children and/or adolescents with chronic disease as the main theme of the study; scientific articles or other research published in the languages mentioned above. Exclusion criteria: studies that did not meet at least one of the criteria of inclusion, articles repeated between the bases and the different languages chosen for the study.

The search strategy followed the steps outlined in Figure 1 and 2. To operationalize the summarization of the final stage studies of the integrative review, just as well the evaluation and interpretation of results and synthesis of knowledge, built up a script-instrument consists of the following fields: article title, author, year of publication, language, database, site of study development, study type, objective, methodological characteristics, main aspects of data analysis, relevant results and major contributions.

To give a clear and objective analysis of the results of this study, it was decided to group the findings into two groups: Relations between demographic variables (race, color, age, country or region and ethnicity) and chronic illness in children and adolescents; and relations between social and economic variables (income, occupation, data on family, education and primary caregiver) and chronic illness in children and adolescents.

Results
When using the descriptors combined with each other to the database searches, were found 3,083 scientific productions. After considering the inclusion and exclusion criteria, remaining 292 articles. After careful reading of this production, only 18 articles fulfill the objectives of this study. The results of scientific production that comprised the final sample, as the title, author, periodical and country where it developed can be seen in the table below, Table 1.
Figure 1: Explanatory flowchart search strategy and selection of studies in the LILACS, 2016.

**Database: LILACS**

**Search**

**Descriptors**

- Health Profile and Child and Chronic Disease
  - n = 1
- Health Profile and Child and Adolescent
  - n = 23
- Health Profile and Adolescent and Chronic Disease
  - n = 1
- Child and Chronic Disease and Socioeconomics Factors
  - n = 15
- Adolescent and Chronic Disease and Socioeconomics Factors
  - n = 30
- Child and Adolescent and Socioeconomics Factors
  - n = 510

**n = 580**

**Application of Criteria**

**Inclusion**

 Contain as subject of study questions about the description of the socioeconomic profile of children and / or adolescents with chronic disease as the main theme of the study; scientific articles or other research published in Portuguese, English and Spanish and in the range 2005-2015.

 Resulted in: 95 articles included

 Reading the title, introduction, objective and methodology

**Exclusion**

 Studies that do not meet at least one of the criteria for inclusion, articles repeated between the bases and the different languages chosen for the study.

 Resulted in: 485 excluded

**Source:** Authors elaboration, 2016.
Figure 2: Explanatory flowchart search strategy and selection of studies in the PubMed, 2016.

**Database:** PubMed

**Search**

**Descriptors**
- Children or Adolescent: n = 289.295.5
- Chronic disease or Chronic illness: n = 565.136
- Socioeconomics factors: n = 142.035

**n = 2504**

**Application of limiters:**
- **Language:** Portuguese, English and Spanish
- **Range:** Last ten years (2005 - 2015)

**n = 1430**

**Reading 1430 abstracts and titles**

**Application of Criteria**

**Inclusion**
- Contain as subject of study questions about the description of the socioeconomic profile of children and / or adolescents with chronic disease as the main theme of the study; scientific articles or other research published in the aforementioned languages and in the range 2005-2015.

**Resulted in:** 198 articles included

**Reading the title, introduction, objective and methodology**

**Application of Inclusion and Exclusion Criteria**

**Resulted in:** 166 excluded

**Resulted in:** 32 included

**Read in full and completing the review of the script**

**Review Final Sample:** 15

**Exclusion**
- Studies that do not meet at least one of the criteria for inclusion, articles repeated between the bases and the different languages chosen for the study.

**Resulted in:** 1232 excluded

**Source:** Authors elaboration, 2016.
Table 1. Distribution of studies on the title, authors, journal and country. Joao Pessoa, 2016.

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Periodical (year, Vol., No., pp.)</th>
<th>Country where the study was conducted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Socioeconomic, demographic, nutritional, and physical activity factors in the glycemic control of adolescents with type 1 diabetes mellitus</td>
<td>Marques RMB, Fornés NS, Stringhini MLF.</td>
<td>Arq Bras Endocrinol Metab. 2011; 55(3):194-202.</td>
<td>Brasil</td>
</tr>
<tr>
<td>Analysis of the impact of environmental and social factors, with a particular emphasis on education, on the level of metabolic control in type 1 diabetes in children.</td>
<td>Stefanowicz A, Birkholz D, Mysliwiec M.</td>
<td>Endokrynolgia Polska/Polish Journal of Endocrinology 2012; 63 (1): 34-41.</td>
<td>Polônia</td>
</tr>
</tbody>
</table>
In Table 2 are expressed the main results presented by articles in the sample of this integrative review. The findings were characterized as the study setting, study chronic disease and sociodemographic information of children and adolescents with such chronic disease.

The selected sample, 18 articles described about the demographic profile of children and/or adolescents with chronic illness and their families. During the analysis, there are no studies that aimed to provide a description of the general demographic profile of children and adolescents with chronic diseases, but studies that addressed the description of this secondarily profile based on a particular chronic disease.

It is observed in Table 2, the demographic data of children and adolescents with chronic diseases, highlighted by studies, emphasized the following items.

Table 2. Description of the socio-demographic profile of children and adolescents with chronic diseases according to the selected items.

<table>
<thead>
<tr>
<th>No. Article</th>
<th>Reference</th>
<th>Study Of Scenery</th>
<th>Chronic Disease</th>
<th>Sociodemographic Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>[8]</td>
<td>Multicenter study in the USA and Canada</td>
<td>Chronic Kidney Disease</td>
<td>Low income; black race; Hispanic ethnicity; and Female</td>
</tr>
<tr>
<td>2</td>
<td>[11]</td>
<td>Brazil</td>
<td>Asthma</td>
<td>Children under 15; male</td>
</tr>
<tr>
<td>3</td>
<td>[14]</td>
<td>Goiânia, Goiás, Brazil</td>
<td>Diabetes Mellitus Type I</td>
<td>Average age at 10 years</td>
</tr>
<tr>
<td>4</td>
<td>[16]</td>
<td>Florida, USA</td>
<td>Diabetes Mellitus Type I</td>
<td>Non-Hispanic black young</td>
</tr>
<tr>
<td>5</td>
<td>[3]</td>
<td>São Paulo, Brazil</td>
<td>Asthma, heart disease, diabetes, among others.</td>
<td>Affect younger in age from 15 to 19 years</td>
</tr>
</tbody>
</table>
seases: Chronic Kidney Disease, Asthma, Diabetes Mellitus Type I, Cystic Fibrosis, Obesity, Sickle Cell Anemia, Cancer, epilepsy and otitis media.

Discussion
From the findings the authors organized the discussion into two categories: relations between demographic variables (race, color and sex) and relations between social and economic variables (income, occupation, data on family, education and primary caregiver) and chronic disease in children and adolescents.

Relations between demographic variables (race, color and sex) and chronic illness in children and adolescents
It is important to highlight a study conducted in 2008 in the city of São Paulo which collected demographic data of 995 adolescents with chronic diseases, which were: asthma/bronchitis/emphysema, heart disease, circulation problems, diabetes, hypertension, tendinitis/RSI/WRMD and rheumatism/arthritis/osteoarthritis. The data showed that this population had the same percentage of female and male and white sex (65.28%). Also showed that among adolescents, the prevalence of chronic diseases is 19.17% and that young people aged be-
ween 15 to 19 years are 1.38 times more likely to have chronic disease than those in the age group of 10 to 14 years [3].

In one of the study, Demographic data (gender, age and color) and this relation with the prevalence of five chronic conditions including: cystic fibrosis, obesity, sickle cell anemia, inflammatory bowel disease and epilepsy, was the target of a study. The first condition studied, showed an average in children of about 12 years old with more cases in females and white. With regard to obesity, the research highlights the average age of 9 years, more present in female and majority black. In sickle cell anemia, the mean age was 10 years, there was no difference between genders and all participants were black. In the inflammatory bowel disease, most of them were white, with most of the male index and average of 15 years of age. Finally, epilepsy was more prevalent in males, especially the white color and with an average age of 8 years [6].

A multicenter study conducted in the US and Canada, between 2005 and 2009, collected data from children with chronic kidney disease and found that children and adolescents from low-income families are more likely to be black race, hispanic ethnicity and female compared to high-income children afflicted with the same disease [8].

From another perspective, a study of the aboriginal population, conducted between 2002 and 2004 in Australia, aiming to determine the risk of chronic kidney disease in childhood, it was found that the prevalence of kidney disease in the terminal stage in the areas collected, were 1170 cases per million population native, compared with 740 cases per million population of non-native. Of the children, had 1,248 aboriginal and 1,018 non-natives, these 51% were male, and the mean age was 8.9 years [9].

A study conducted in Puerto Rico, asthma was a disease target for researchers. The data revealed that there were 3,878,000 young people between the years 2001-2003, with asthma, it has been found 111 deaths in that period. Estimates of average annual prevalence was approximately 45% higher for black children than for white as well as the average annual estimates of asthma attacks. The study also revealed that poor and young people living in urban areas have higher rates of asthma and showed the most severe forms of the disease, moreover, were less likely to receive high quality medical care and to use medicines appropriately [10].

In Brazil, a search of adolescents with asthma, found that of 114 adolescents interviewed, most had less than 15 years old and were male gender [11]. It can be observed that the results of a survey conducted in Australia, came to corroborate the data of the Brazilian study and shows that asthma has a higher incidence in males than in females. Noteworthy is also the global prevalence of asthma in 4,611 children aged 5 to 15 years with 18.6% in the study population during the period 2002 to 2007 [12].

Also as regards chronic diseases, there is the Diabetes Mellitus Type I, which was addressed as the object of a study in Itabuna (Bahia-Brazil), where it was noted the influence of sociodemographic factors on the children quality of life with the referred disease. The findings showed that the factors that influence the worsening of quality of life are: female, adult, diagnostic time or equal to ten years and low family income. As for the factors that does not intervene significantly in quality of life are: education, occupation, ethnicity, body mass index, number of daily insulin injections and monitoring of blood glucose profile [13].

Another study, which diabetes was discussed, held in Goiania (Goias-Brazil), looked for a relation between the demographics of 84 adolescents with the disease and glycemic control. Thus, it was found that there was no significant difference between genders and age averages of groups of adequate glycemic control and inadequate. The author argues that has not been established relation between age at diagnosis and glycemic con-
control, but it is known that the incidence of diabetes is increasing especially in younger age groups, in the entire world. In the study, it was observed that adolescents were diagnosed with average age less than 10 years old [14].

However, another study with children and adolescents with diabetes in Poland showed that there were differences between age groups in the incidence of diabetes decompensated, where the highest rate was between 13 and 18 years old. The author seeks to justify stating that this group is affected by several factors such as adolescence, physical and hormonal changes [15].

In Florida, the barriers were also observed to health care for young (<20 years old) with diabetes. That said non-hispanic black youth were significantly more likely to lack of regular medical care compared to non-hispanic white youth. It analyzed the racial and ethnic disparities were constantly associated with barriers to access to care in young people with diabetes type [16].

In research conducted in California (USA), from 2001 to 2005, authors tried to analyze the demographic variables of children with tumors. Then carried out a comparative study showing that in almost all age groups, the malignancy rate was higher in male children and the girls were most affected of benign tumors. With one caveat for teens, where the percentage of benign tumors in males was higher. The study also showed that hispanic children under 5 years had proportionately higher incidence of tumors. While in non-hispanic white teens, the rate was higher. From 5 to 9 years old, the hispanic children were more affected by malignant tumors, while the non-hispanic white children were most affected of benign tumors [17].

From another perspective, a study in Goiânia (Goias–Brazil), with adolescents with diabetes, to the principal caregiver profile, pointed out that this group is mainly composed of the mothers [14]. A literature review conducted in order to compare family functioning in families with children and adolescents with five different chronic diseases (cystic fibrosis, sickle cell anemia, epilepsy, inflammatory bowel disease and obesity), also found that most the main caregivers are mothers (81% cystic fibrosis, 92% were obese, 84% sickle cell anemia, 91% inflammatory bowel disease, 81% epilepsy). Moreover, in all diseases, except in obesity (62% single), the number of single caregivers was considered low [6].

In Nigeria, an article discussed the risk of otitis media and the relation with the family profile, the authors reported that the risk factors in children with chronic otitis media were higher in children with a large number of residents in the same house and still a family with more than 5 children [18].

**Relations between social and economic variables (income, occupation, data on family, education and primary caregiver) and chronic disease in children and adolescents**

Studies linking the variables family income, occupation of family, education levels and data on the primary caregiver of children and adolescents with chronic disease, are common in the literature. However, these studies address the issue as secondary. Still, it is essential to consider the social and economic variables in the theme of chronic disease as it interfere directly or indirectly in the success of care. It is considered income a good measure of material resources, but it is not a constant gauge, since it is subject to factors such as age, education, family size, cost of living and the number of people who contribute to that income [19].

On the characterization of income and other factors, research on chronic kidney disease found that children and adolescents from families with low income and low maternal education have higher rates of abnormal history at birth, moreover, need more service private health. In these families was observed a higher proportion of children and adolescents with at least one comorbidity, besides renal disease.
However, for many comorbidities there were no differences by income categories, a reassuring finding in this high-risk population [8].

In the same study, it was described that over the history of abnormal birth (preterm birth, small for gestational age or low birth weight), was more common among families of low and middle income in relation to the category of higher income (34% and 32% vs. 21%; P = 0.01), to investigate comorbidities at baseline, estimates suggest slightly higher proportion of persons affected by more than one disease or chronic condition among families with lower levels of income, although these associations were not significant.

In what concerns the family income and quality of life of 114 adolescents with asthma treated at a clinic for pulmonology, it was found that 21.1% belonged to the social class B (gross monthly household income between US $ 1,269.00 and US $ 2,187.00) and 61.4% C (gross monthly household income between US $ 465.00 and US $ 763.00) according to the criteria of the Brazilian Association of Business Research (ABEP), however, not present study found a correlation between socioeconomic variables and quality of life in patients with asthma, and the fact that socioeconomic variables was hampered by the fact that the participants belonged to economic classes B and C (80.7%) [11].

Similarly, another study in South Australia with 4,611 children aged 5 to 15 years old, going to school, the results also indicated that asthma was significantly less likely to occur in children living in households where income was US$ 80,000 or higher [12].

Still about asthma, other survey of children aged 9 and 18 (37 children with asthma and 39 healthy children), it was observed that in children with asthma, a lower socioeconomic status was associated with increased IL-5 and IL-13 and higher eosinophil count (P < .05), and the author still managed to associate psychological stress with socioeconomic status in the same study [20].

Another study conducted at the Clinic of Endocrinology of the Hospital of the UFG and General Hospital of Goiania, with 84 adolescents with diabetes type 1, was found that 22.5% of adolescents had occupation and already working to supplement the family income. Moreover, while the per capita monthly income do not have significant influence on glycemic control of these, the prevalence of 78% of patients with income below half the minimum wage that had metabolic inadequacy suggests that financial constraints may be reinforcing this context [13].

Still with regard to diabetes, other study involved 34 diabetes in children and adolescents showed that the per capita family income was 0.70 ± 0.56 minimum wages [14]; these findings may contribute to the evidence that low family income it can be a trigger factor for the work of young adolescents, thus influencing the metabolic control.

In 2008, the city of Campinas (São Paulo–Brazil), were collected data 929 adolescents with 10 to 19 years old and it was observed that 19.75% were working, but could not find statistical association of chronic diseases and health problems the variables family income [3].

The United States and Canada conducted a survey of 11,447 patients younger than 18 years and found that those with low incomes have less access to medical appointments. Pulmonary exacerbations requiring antibiotics VI are most often diagnosed and treated in patients with lower status of family income and maternal education. However, there are few comparative studies on family income in patients with cystic fibrosis.

California (USA), a study of tumors in children, showed that in children under 5 years, the number of cases was higher when the socioeconomic level was lower. In children aged 5 to 9 years, there are more malignant cases and uncertain behavior at lower socioeconomic levels, while in children with higher income, there was a higher incidence of benign tumors. For adolescents age groups 10
to 14 and 15 to 19, all malignant cases were in high socioeconomic status. In the 10 to 14 years old range, benign cases were of high socioeconomic status, while the doubtful were low. The opposite was observed in the age group 15 to 19 years, in the uncertain cases were high-level, while the benign cases were higher in low [17].

In Nigeria, a study of a sample of 189 participants diagnosed with otitis media, showed that low socioeconomic class predominated with 153 cases (81%), moreover, been seen that the same percentage living in households with more than 10 persons. There was also that 79 participants (42%) belong to families with more than five children. These factors were considered at risk for the disease studied¹⁸. The study also reported that the total sample, 117 children (62%) attended the nursery, however, it was not found significant relationship with school attendance and chronic infection [18].

Access to health care provided by the state, was also evaluated in a study. The result showed that access to public service reduced the likelihood of families to face barriers in access to care and high spending on treatment [16].

Regarding education of the child/adolescent, a literature review has shown that young people with asthma are more likely to abstain school and a lower income. This is because the symptoms, the need to attend medical consultations, hospitalization, care to avoid environmental factors at school, deprivation consequent sleep the night attacks, comorbidity (eg, respiratory diseases) associated with increased susceptibility between other [10].

The level of parental education was also highlighted in the findings of this review, some authors [3] report in the results of their research that this variable did not influence the prevalence of chronic diseases or quality of life [13].

Unlike, Stefanowicz, compared groups of children and adolescents with diabetes type I compensated and decompensated. In this study, it was found that the group with the controlled glycemic rate, parents had a higher education level (20.6% of mothers and 22.2% of fathers had completed high school), compared to those who were uncontrolled (7.7% of mothers and parents to complete high school) [15]. Another study involving diabetes type I, adds that parents/caregivers with lower level of education to high school, reported more problems with daily care than those with higher education. In addition, caregivers with higher education were less likely to report communication problems [16].

Similar findings were observed in the control of cystic fibrosis [19]. Children with mothers with higher levels of education have a greater number of outpatient visits; less pulmonary exacerbations and, consequently, less need for potent antibiotics; greater adherence to treatment and greater request prescription vitamins. Thus, these studies indicate that education level is closely associated with the control of the disease. In addition, these factors influence the child’s/adolescent’s quality of life in disease management ability and family functioning.

Conclusion
Given the above, we conclude that there is evidence on the relationship of the socioeconomic profile of children and adolescents with chronic disease, having been identified in scientific production. According to the studies found, it was possible to trace the socio-demographic profile of children and adolescents with CD, based on five variables: sex, age, race, income and education. In general, with regard to sex, the male predominance is observed, but the difference between boys and girls was low. Thus, females predominated only in cases of cystic fibrosis, type 1 diabetes and chronic renal failure. Regarding age, the studies showed that most children and adolescents with CD are included in the range between 10 and 15 years, affected mainly by kidney disease, asthma and diabetes type I. It was also observed that children affected by obesity and epilepsy had lower age than 10 years. The
race, in turn, is a condition that depends on chronic disease. The profile follows composed of mostly white, except for genetic nature of diseases, such as sickle cell disease with the highest black population. According to studies, most families are low income, and asthma, DM I, chronic otitis media, obesity, sickle cell anemia and epilepsy, the most common diseases in this class. Families with better financial conditions, had cystic fibrosis and intestinal diseases like more present conditions. Only psychological problems, was more present in high-income families. With regard to the variable education, few articles dealt with this issue. Those who have pointed out, found that most of the children and adolescents with CD attending day care or school, and had not completed elementary school. An important aspect, however, addressed in a single study, was the education of the parents, whose characteristic was completed higher education, most.

According to the summary of articles, we observed that draw or describe the socioeconomic profile of children and adolescents with chronic diseases is still somewhat hampered by a lack of understanding of this objective as a key issue for research. Consequently, this profile appears in studies as secondary to a particular disease. Thus, it can be said that this profile was quite varied depending on the chronic disease, study site, sample and even the length of time that the survey was conducted.

In addition, based on articles found, it is observed that the studies bring a low representation of many chronic diseases of children and adolescents worldwide, and asthma and diabetes mellitus the most cited and studied diseases.

One aspect rarely addressed in the studies was the demographic profile of family of children and adolescents with chronic diseases. This profile is correlated with the factors involved in the family dwelling, with regard mainly to urbanization, sanitation, number of residents, among others. These aspects also influence the development of this population, but it was a given rarely addressed by the articles. However, the authors included in the review agree on the fact that the socioeconomic variable family reaches the child or adolescent patient at some point, either in the presence of comorbidities, quality of life in general or in access to health services.

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