ABSTRACT: Developmental and behavioral disorders affect 12 to 16% of children. There are effective interventions to promote the well-being of both children and their families to reduce negative outcomes. The provision of appropriate developmental and behavioral services must be guided by family needs. Parental concerns are a reliable tool to evaluate children’s developmental and behavioral status and to make decisions regarding these services. This study explored parents’ concerns in a Portuguese health care setting. We used an interview, focusing on concerns about parenting and the child’s physical health, development, behavior, and interaction. When questioned in a systematic and standardized way, parents discussed concerns about their children’s development and behavior, as well as the parental role. All parents had at least one concern about their child. Most parents expressed concerns about their child’s behavior, particularly about discipline. We discuss implications for the provision of developmental and behavioral services within well-child care.

Keywords: Developmental and behavioral problems; parental concerns; well-child care.

Acknowledgements
We thank staff and parents from the participating well-child care facilities for their contributions to the study. The present study is part of a larger project supported by a doctoral grant from the Portuguese Science and Technology Foundation.
filho. A maioria dos pais expressou preocupações sobre o comportamento da criança, particularmente sobre disciplina. São discutidas implicações para a prestação de serviços direcionados para o desenvolvimento e comportamento no contexto da vigilância de saúde infantil.

Palavras-chave: Problemas de desenvolvimento e comportamento; preocupações parentais; vigilância de saúde infantil.

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Over the last decades, scientific progress has lead to the achievement of unprecedented child health indicators. Children’s physical health is better today than it has ever been. However, there is a rising prevalence of the so-called “new morbidities” such as obesity, as well as behavioral and developmental disorders (Kelleher, McNerny, Gardner, Childs, & Wasserman, 2000). According to international estimates, 12 to 16% of children have developmental or behavioral disorders (e.g. Boyle, Decoufle, & Yeargin-Allsopp, 1994).

Research suggests that the period from conception to age six is the most influential in the life cycle of brain development and this period is equally influential in subsequent learning, behavior and health (McCain & Mustard, 1999). The quality of early experiences, namely parent-child relationships, has a strong impact on brain development and has long-term effects on the person’s wellbeing (Shonkoff & Phillips, 2000; Richter, 2004).

The rising incidence of developmental and behavioral problems among children attests to the inability of some children and their families to cope appropriately with the increasing stresses in their lives, resulting in their need for assistance (American Academy of Pediatrics [AAP], 2003). International surveys indicate that many parents feel unprepared and unsupported in their parental role and that they acknowledge the need for advice about raising their children (Desforges & Abouchaard, 2003; Young, Davis, Schoen, & Parker, 1998). Several interventions to improve child development and adjustment have been proved to be effective (e.g. Minkowitz et al, 2007; Olds, 2007; Puura et al., 2002) and to achieve better outcomes for children and their families (e.g. Barnett, 1995; Boocock, 1995). Therefore, providing services to families that support the healthy development of children can reduce the prevalence of developmental and behavioral disorders.

Professionals in Primary Care have substantial and continued contact with parents during childhood and parents expect them to provide information on child development and parenting, as well as on the physical aspects of health (Young et al., 1998; Schuster, Duan, Regalado, & Klein, 2000; Bethell, Peck, & Schor, 2001). There is also evidence that parents do adhere to the childrearing recommendations they receive from healthcare providers, thus improving children’s and families’ outcomes (e.g. Black & Teti, 1997; Sege et al., 1997; Needelman, Toker, Dreyer, Klass, Mendelsohn, & 2005). Well-child care constitutes an important opportunity to provide developmental and behavioral services and several organizations call for an integration of behavioral and developmental issues during well-child care visits (e.g. American Academy of Pediatrics, Bright Futures).
Contemporary protocols and guidelines for child health surveillance in primary care invariably call for attention to child development and behavior as well as to a variety of psychosocial and family factors that may require assessment and intervention (e.g., Committee on Practice and Ambulatory Medicine and Bright Futures Steering Committee, 2007; Hagan, Shaw & Duncan, 2008). The use of a comprehensive approach to development that includes developmental surveillance, developmental/behavioral screening, education/counseling, intervention and care coordination, is widely recommended. Portuguese guidelines on well-child care share these recommendations, and encourage health professionals to survey and respond to parents’ concerns, to assess child development, to prevent socio-emotional disorders, to identify and provide interventions for developmental and behavioral problems and to provide anticipatory guidance about developmental tasks and problems (Direcção-Geral da Saúde, 2005).

In spite of existing practice guidelines to support well-child care in order to ensure the optimal health and development of young children, the provision of appropriate developmental and behavioral services is limited by a whole set of barriers. These include lack of care standards, unrealistic expectations about the content of well-child care, time constraints, inadequate training and insufficient community-based resources to address families’ needs (Regalado & Halfon, 2001; Schor, 2004; Yarnall, Pollack, Ostbye, Krause, Michener, 2003). Therefore, the use of well-child care for promoting child development and adjustment lags behind expectations. International studies show that fewer than 30% of children with developmental or behavioral problems are identified by their primary health care provider (Glascoe & Shapiro, 1999), thus limiting the acknowledged benefits of early intervention. International surveys also found that most parents reported unmet needs for parenting guidance, education or screening by primary healthcare providers and that almost half the parents reported not being asked about their concerns regarding the child’s learning, development or behavior (Bethell et al., 2001; Bethell, Reuland, Halfon, & Schor, 2004; Schuster et al., 2000; Young et al., 1998).

Efforts and recommendations to improve developmental and behavioral services have two major goals: improving identification of developmental and behavioral problems and improving education, counseling and intervention within health care services constraints. In order to achieve this, an important role is attributed to the identification of parental concerns.

The identification of developmental and behavioral problems often relies on health professionals’ clinical judgment derived from observation, reviewing milestones and the administration of age-appropriate tasks selected from developmental schedules and milestone checklists (Centre for Community Child Health, Royal Children’s Hospital Melbourne, 2002). However, a significant proportion of children with problems remain not identified.

Some researchers emphasize that clinical judgment is influenced by the way in which health professionals elicit, recognize and select clinical information and
use appropriate judgments (Glascoe & Dworkin, 1993, 1995). Research showed that obtaining parental inputs increases the accuracy of clinical impressions and that certain clusters of parental concerns relate directly to children’s performances on screening tests for developmental and behavioral problems (Dulcan et al., 1990; Glascoe & Dworkin, 1995). For example, 72% of parents whose children failed a screening test on speech-language were concerned about this area of development; while 83% of parents whose children passed the same screening test were not concerned (Glascoe, 1991). In another study, 70% of children who failed a standardized measure of behavioral and emotional problems had parents with concerns about their behavioral and emotional status (Glascoe, MacLean & Stone, 1991). Therefore, professionals can use parental concerns to identify the risk for developmental and behavioral problems (Glascoe, 1991, 1994, 1997a, 1998).

This area of research also indicates that care should be taken in order to elicit and categorize parental concerns appropriately. Parents are more likely to share their concerns when they are worried about expressive language or health problems and some parents do not spontaneously discuss their concerns. (Glascoe, 1997b). This may indicate that parents do not always recognize that a more complete discussion about developmental or behavioral concerns is relevant to primary health care professionals. They may not realize that interventions to minimize these problems are possible.

It has been shown that parents are able to provide highly accurate indicators of childhood behavioral and developmental problems in response to structured and systematic questioning regarding their concerns, i.e., when the professional prompts them to specifically think about different developmental and behavioral domains (Glascoe, Altemeier, & MacLean, 1989).

The importance of parental concerns goes far beyond the identification and appropriate referral of children with developmental and behavioral problems. Research shows that approximately 30% of parents worry about their children, even though their children are developing and behaving within the broad range of normality (Glascoe, 1997). Part of those parents may be noticing subclinical or subtle manifestations of a problem, as children of these parents tend to have lower scores on socialization, speech-language and motor skills or exhibit a larger number of behavioral problems (Glascoe, MacLean & Stone, 1991; Glascoe, 1997). Other parents may be experiencing particular difficulties in managing normal behavior. Explanations for other cases may include parents’ anxiety or inaccurate expectations about children’s development and behavior. Whatever the case, parental concerns when children are developing and behaving normally also indicate that there is a need for further evaluation or clinical guidance by the health care professional. Using these concerns as a “teachable moment” for parents’ education and counseling is probably adequate in these situations (Glascoe &

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1 Teachable moments are effective opportunities to facilitate some sort of change and to address parents’ issues, initiate discussions of common behavioral and developmental concerns and approach sensitive topics such as maternal depression or domestic violence (Zuckerman & Parker, 1997).
Dworkin, 1995). Parents appear to respond best to information focused on their specific areas of concern. *Teachable moments* related to these specific concerns have been identified as an effective way to provide education and counseling to parents and, therefore, to promote optimal development within the time constraints of health care settings (Glascoe, Oberklaid, Dworkin & Trimm, 1998; Bethell et al., 2004; Schor, 2004; Zuckerman, Stevens, Inkelas, & Halfon, 2004). Furthermore, it should be noted that parental concerns seem to be highly specific and very useful in guiding the health professional’s selection of different interventions (Glascoe, 1999c).

Despite the recognized importance of parental concerns for child health surveillance and the existence of Portuguese guidelines that explicitly recommend that health professionals evaluate these concerns, they have received little consideration in the Portuguese literature on child health surveillance and care. The present study intends to explore and describe the health and educational concerns of parents of children aged 2 to 6 years in a Primary Health Care setting. We aimed to answer the following research questions:

What kind of concerns do Portuguese parents of children aged 2 to 6 years have within the broad dimensions of a child’s physical health, development, behavior, and social interaction, as well as parenting?

What is the frequency of concerns for the different domains?

How likely are Portuguese parents to engage in discussions relating to developmental and behavioral concerns when probed in a health care setting?

This work is part of a larger study on the role of Portuguese well-child care for promoting child development and adjustment. Data discussed in this paper is being used to guide the development of a program for promoting child development and adjustment through well-child care in Primary Health Care settings.

**METHODS**

*Participants*

The study was conducted in three Primary Health Care Centers from the same geographical area within the surroundings of Lisbon. Participants were parents (or other primary caregivers, such as grandparents, sisters) of children aged 2 to 6 years. They were recruited while waiting for child health appointments, using convenience sampling with the following inclusion criteria: to speak Portuguese fluently, to accept participation according to the informed consent protocol and to receive continuous well-child care at these health units. There were no exclusion criteria for children. Two families refused to participate because of time constraints or their need to pay close attention to their children at that particular time. Three parents that had agreed to participate were excluded as they were not fluent in Portuguese.
or lacked enough information about the child. 57 families participated. Most respondents were mothers (82.5%) and some interviews were made with both parents present (14%).

In terms of socio-demographic characteristics, the average age was 34.5 years for mothers and 32.6 for fathers. Parents’ educational levels ranged from no schooling to professional degrees. Most fathers completed nine (33.3%) or less (21.1%) years of education and most mothers completed twelve (38.6%) or less (45.6%) years of education. Most parents were married (49.1%) or lived in marital unions (35.1%).

Children had an average age of 3.68 years, 52.6% were girls, and half the children were first born. More than half attended childcare facilities (59.6%). Two children had special education needs and four children had special health needs, as reported by parents.

Most parents and children were at the health care facility for routine well-child care (70.2%) while 17.5% were there for acute care visits and 12.3% for other motives, such as immunizations.

Measures

Given the exploratory nature of this study, we chose a qualitative method using a semi-structured interview to evaluate parental concerns. This methodology allowed us to evaluate parents’ understanding of the questions and the eventual need to reformulate them, as well as their reactions to the specific questions. At the same time, the semi-structured interview allowed the researcher to further explore and clarify parents’ answers, allowing a better understanding of the meanings of their assertions and verbalizations. Contrary to what is done in most studies of parental concerns that use questionnaires including items specific for each developmental domain, such as fine motor, gross motor, receptive language, expressive language, autonomy (Glascoe, 2002), we conducted a semi-structured interview using open questions for broader dimensions. All answers were recorded.

The interview started with a broad question on parents’ concerns: “Please tell me any concerns you have about the way your child is behaving, learning and developing”. The remaining interview guide was organized into five major dimensions: physical health, development, behavior, social interaction, and parenting. For each of these dimensions, parents were asked: “Do you have any concerns about your child’s physical health? …how is your child learning and developing? …how does your child behave? …how does your child get along with others? …and do you have any concerns about parenting?”. The interview also included an open-ended question eliciting any other concerns that parents had not mentioned before. For each dimension, additional probing questions were included to guide parents with the type of concerns that could be included (e.g. for the physical health domain: “Do you have any concerns about your child sleeping and feeding?”). The development of the interview guide took into consideration recommendations con-
cerning the wording and the structure of the questions from previous literature (Glascoe et al., 1989).

A demographic questionnaire about child and family characteristics was administered, in order to characterize the participants. In addition, parents were asked about their subjective evaluation of their child’s overall health status, using a subjective scale with three anchor points (excellent, good, and poor).

**Procedures**

Parents (or their substitutes) were interviewed while waiting for scheduled child health appointments. The first author informed parents about the study, invited them to participate and obtained informed consent. She also conducted all the interviews.

Parents’ verbalizations were transcribed and the content was analyzed and classified according to different broad dimensions (health, development, behavior, parenting). Answers to the first general question were allocated into the appropriate specific dimension to receive further analysis. In the answers to the following questions, if parents mentioned concerns from different dimensions (for instance, if parents mentioned behavioral and health issues when answering the question about development) the concerns were allocated to each appropriate dimension. Categories were generated using an inductive approach. Within each dimension, answers were organized in categories based on common themes (for example, within the behavioral dimension we identified categories on discipline and anxiety). For each category, a definition was developed. Afterwards, we revisited the original data for newly emerging themes or categories and added them as necessary. Coding was then checked by two additional researchers to ensure that categories were derived from data and not imposed by personal beliefs or prejudices. These codes were analyzed statistically for the identification of frequencies of different concerns.

**RESULTS**

*Parents’ subjective evaluation of their children’s health status*

Almost all parents perceived their children’s health status as good (*n*=33; 57.9%) or excellent (*n*=23; 40.4%).

*Parents’ concerns*

All parents had at least one concern in one of the domains approached (table 1). The majority of concerns reported were in the domains of behavior (71.9%) and parenting (54.4%).
For each domain, parents were able to raise one or more concerns.

Table 1  
*Parents’ concerns by major domains*  

<table>
<thead>
<tr>
<th>With concerns</th>
<th>Without concerns</th>
</tr>
</thead>
<tbody>
<tr>
<td>n</td>
<td>%</td>
</tr>
<tr>
<td>----</td>
<td>-----</td>
</tr>
<tr>
<td>Physical health</td>
<td>23</td>
</tr>
<tr>
<td>Development</td>
<td>14</td>
</tr>
<tr>
<td>Behavior</td>
<td>41</td>
</tr>
<tr>
<td>Social interaction</td>
<td>19</td>
</tr>
<tr>
<td>Parenting</td>
<td>31</td>
</tr>
</tbody>
</table>

**Physical Health**

The domain of physical health included any concerns relating to child health, feeding or sleeping. Approximately 40% of parents reported concerns about their child’s physical health. Most of them were concerned about specific disease or health problems or feeding (table 2).

Table 2  
*Parents’ concerns about physical health*  

<table>
<thead>
<tr>
<th>Categories</th>
<th>Description</th>
<th>Example</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without concerns</td>
<td>Reference to the absence of concerns. Global perception of the child as normal to the child’s age.</td>
<td>“I have no concerns about my child”</td>
<td>34</td>
<td>59.6</td>
</tr>
<tr>
<td>Specific diseases or health problems</td>
<td>Reference to health problems, specific diseases or symptoms under examination</td>
<td>“She complains of headaches which are being examined”.</td>
<td>16</td>
<td>28.1</td>
</tr>
<tr>
<td>Sleep</td>
<td>Reference to sleep difficulties</td>
<td>“She can’t sleep alone”.</td>
<td>2</td>
<td>3.5</td>
</tr>
<tr>
<td>Feeding</td>
<td>Verbalization regarding the child’s eating behavior, difficulties in feeding the child or making the child eat by herself/himself.</td>
<td>“He doesn’t eat too much and loses weight easily.”.</td>
<td>10</td>
<td>17.5</td>
</tr>
</tbody>
</table>

**Development**

We included in the domain of development any verbalizations relating to the child’s overall developmental status or to motor, cognitive, and language development. Most parents did not report concerns about development (75.4%). Among those who reported developmental concerns, most had concerns about expressive language (table 3).
Parents’ concerns about development

Table 3

<table>
<thead>
<tr>
<th>Categories</th>
<th>Description</th>
<th>Example</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without concerns</td>
<td>Absence of concerns. Parents perceive the child as developing within normality.</td>
<td>“He’s developing normally”.</td>
<td>43</td>
<td>75.4</td>
</tr>
<tr>
<td>Global development</td>
<td>Reference to the occurrence of future problems.</td>
<td>“She wants to walk fast and run and she gets hurt. She often falls.”</td>
<td>4</td>
<td>7.02</td>
</tr>
<tr>
<td>Language</td>
<td>Reference to concerns about speech/language development or the use of speech therapy.</td>
<td>“He was a little delayed in speech development, but since he went to the nursery school he’s better.”</td>
<td>11</td>
<td>19.3</td>
</tr>
</tbody>
</table>

Behavior

In the domain of behavior, were included any concerns relating to the child’s overall behavior pattern or about behavioral problems, such as discipline, attention, over-activity, anxiety, and autonomy. Forty-one parents reported one or more concerns about behavior. Approximately 50% of parents reported concerns about discipline, and fourteen parents mentioned concerns with the over-activity of the child (Table 4).

Table 4

Parents’ concerns about behavior

<table>
<thead>
<tr>
<th>Categories</th>
<th>Description</th>
<th>Example</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without concerns</td>
<td>Parents mention no concerns and describe child’s behavior using positive characteristics.</td>
<td>“There are no concerns. At school, her behavior is exemplary.”</td>
<td>16</td>
<td>18.1</td>
</tr>
<tr>
<td>Discipline</td>
<td>Mention of indiscipline, uncooperative behavior or temper tantrums.</td>
<td>“She argues a lot and is always demanding her own way.”</td>
<td>29</td>
<td>50.9</td>
</tr>
<tr>
<td>Over-activity</td>
<td>Mention of excessive and inadequate activity and agitation.</td>
<td>“The agitation. He never stops”</td>
<td>14</td>
<td>24.6</td>
</tr>
<tr>
<td>Attention problems</td>
<td>Mention of attention problems, like inability to persist on tasks for long periods and difficulty in paying attention when people talk to the child.</td>
<td>“She can’t focus her attention.”</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>Anxiety</td>
<td>Mention of anxiety or other internalization behaviors.</td>
<td>“He’s very nervous, gets angry easily and screams.”</td>
<td>3</td>
<td>5.3</td>
</tr>
<tr>
<td>Autonomy</td>
<td>Mention of autonomy issues, like instrumental and socio-emotional dependence on adults.</td>
<td>“He’s always demanding our attention. He doesn’t play by himself. It’s exhausting because we don’t have a sole moment to ourselves.”</td>
<td>2</td>
<td>3.5</td>
</tr>
</tbody>
</table>
Social Interaction

Parents’ concerns about the child’s overall pattern of interaction or about specific abilities or behaviors that interfere with the establishment and maintenance of social interactions were included in the domain of social interaction. Most parents reported no concerns in this domain. Twenty parents (35.1%) reported one or more concerns about the child’s ability to establish social relations, problems during peer interactions and the need for more interaction with peers (table 5).

Table 5
Parents’ concerns about social interaction

<table>
<thead>
<tr>
<th>Categories</th>
<th>Description</th>
<th>Example</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without concerns</td>
<td>No concerns. Perception of social behaviors as adequate to the child’s age.</td>
<td>“He gets along with everybody”</td>
<td>38</td>
<td>66.7</td>
</tr>
<tr>
<td>Establishing relations</td>
<td>Mention of difficulties in initiating relationships, including the dependence on adults to do it, to extreme shyness or to extreme ease (that constitutes a concern) in getting along with strangers.</td>
<td>“It used to be really hard. Now it’s better. He’s a little shy, but after some time he adjusts well.”</td>
<td>9</td>
<td>15.8</td>
</tr>
<tr>
<td>Interaction with peers</td>
<td>Mention of an extreme need for leadership, of difficulties in sharing or of aggressive behavior when interacting with peers.</td>
<td>“Sometimes he’s a little aggressive when he doesn’t get things his own way.”</td>
<td>8</td>
<td>14.0</td>
</tr>
<tr>
<td>Need of more interaction with peers</td>
<td>Mention of the need for more opportunities to play with peers.</td>
<td>“He needs to be with peers more often. When he’s with the nanny he doesn’t mix with children of the same age.”</td>
<td>3</td>
<td>5.3</td>
</tr>
</tbody>
</table>

Parenting

The domain of parenting included parents’ concerns about their overall experience of parenting or about their perceived parental ability, as well as any constraints relating to their competencies in the parental role. Approximately half the parents reported one or more concerns within this domain, with a large heterogeneity of themes (table 6). Fifteen parents (26.3%) reported global and diffuse concerns around the hard job of raising a child and the major demands and efforts for providing appropriate care, protection and nurturance to the child. Concerns that were more specific included financial constraints, child behavior management, family dynamics, family structure, and family time.
### Table 6

**Parents’ concerns about parenting**

<table>
<thead>
<tr>
<th>Categories</th>
<th>Description</th>
<th>Example</th>
<th>n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Without concerns</td>
<td>Parents mention no concerns.</td>
<td>“I have no concerns about my parental role”.</td>
<td>26</td>
<td>45.6</td>
</tr>
<tr>
<td>Global concerns</td>
<td>Mention of global concerns with the well-being of the child, although without concrete concerns. Perception of development and behaviour as age-appropriated. Mention of concerns without a concrete target. Mention of concerns related with the lack of knowledge about childcare or fear of inadequate childcare.</td>
<td>“We try to teach our child the main things: those things that she cannot touch, that she cannot go to the road and that she mustn’t be rude and disrespectful. When I was little, I was worse. As children, we didn’t realize what was happening”. “It always worries me, With her diet, should I force her or not. Even with what she should wear...Now I know her better and she also understands me, it is no longer a big concern as when she was younger”.</td>
<td>15</td>
<td>26.3</td>
</tr>
<tr>
<td>Financial problems</td>
<td>Mention of financial problems or precarious work.</td>
<td>“It’s really hard to provide for all the expenses. It’s the nursery school, the health costs, the cost of the vaccines. What really concerns us is education because our income is static, but the nursery school fees always rise. We don’t know what can happen from now to tomorrow.”</td>
<td>7</td>
<td>12.3</td>
</tr>
<tr>
<td>Behavior management</td>
<td>Concerns about managing the child’s behavior.</td>
<td>“He’s always testing our limits. We say no and he argues and does it anyway.”</td>
<td>7</td>
<td>12.3</td>
</tr>
<tr>
<td>Family dynamics</td>
<td>Concerns about the family’s organization or dynamics.</td>
<td>“We don’t have time for each other (the couple). Our attention is centered on her.”</td>
<td>8</td>
<td>8.8</td>
</tr>
<tr>
<td>Availability</td>
<td>Mention of lack of time to be with their children or of the desire for more time with their child.</td>
<td>“I spend little time with them. I would like to have more time with them.”.</td>
<td>4</td>
<td>7.0</td>
</tr>
<tr>
<td>Single parenthood</td>
<td>Concerns about the effects of single parenthood on child.</td>
<td>“Their father’s guidance would make a great difference. I don’t install in them total confidence.”</td>
<td>2</td>
<td>3.5</td>
</tr>
</tbody>
</table>
DISCUSSION

When interviewed, Portuguese parents discussed concerns about their child’s development and behavior as well as their parental role, confirming the pattern of responses already identified in international studies (Reijneveld, Meer, Wiefferjnick, & Crone, 2008; Ford, Sayal, Meltser, & Goodman, 2005). As in the USA and Australia, concerns about the development and behavior of young children and about their own parenting role are prevalent amongst Portuguese parents.

In this study, a significant number of parents had no concerns across the majority of the domains explored and only mentioned singular areas of concern. In a study conducted by Glascoe (2002), 43% of parents either did not think about or worried about their child’s behavior and development. Among these parents with no concerns about their child’s development, only 5% had children with developmental problems. In our study, the absence of multiple concerns may also indicate the absence of real behavioral and developmental problems.

With regard to global themes, parental concerns were similar to those found in classical parental studies (Glascoe, 1999a, 1999b; Kanoy & Schroeder, 1993). The prevalence of parental concerns within each domain also follows the major trends documented in the literature (Hickson, 1983 cit in Glascoe, 2002; Glascoe & Dworkin, 1995; Glascoe, 1999b; Glascoe, 2000; Reijneveld et al, 2008).

Most parents did not report concerns related to their child’s physical health, including sleeping and feeding. The fact that most parents evaluated positively their child’s overall health status and that appointments were mainly well-child consultations may partially explain these findings. In addition, the belief that mild physical health concerns would be satisfactorily addressed during the visit, thus not constituting a relevant concern, may have some effect on these results. Previous studies have found that parents report fewer concerns about physical health in health-care settings than when interviewed in other contexts and that, in the absence of a specific disease, other themes deserve more parental attention (Glascoe, 1999a, 1999b, 1999c; Glascoe, 2003; Reijneveld et al. 2008).

Only a few parents expressed concerns about their child’s development, mostly about expressive language. Language concerns are the developmental issues most likely to be raised by parents. Parental concerns about speech-language development are also strong predictors of developmental problems (Glascoe et al., 1989; Glascoe, 1991, 1997, 2003; Tervo, 2005). Therefore, children whose parents raised concerns about expressive language in this study are likely to have a developmental problem, which will need further assessment and probable intervention (Glascoe, 2002, 2003, 2005). Additionally, some parents may express their worries about their child’s development through the verbalization of concerns related to behavioral problems (Oberklaid, Dworkin, & Levine, 1979; Glascoe, 1994). Though, the prevalence of children from this study in risk for a developmental problem may be higher, once their parents may be expressing their child’s developmental difficulties through be-
havioral concerns. This is another reason to pay close attention to different dimensions of parental concerns.

Most parents expressed concerns about their child's behavior. Previous studies confirm a prevalence of concerns related to behavioral issues (Reijjneved et al., 2008; Glascoe, 1999a). Behavioral concerns are good predictors of possible future problems in this area. For example, 87% of children with attention-deficit hyperactivity disorder had parents with concerns about impulsiveness, attention problems or overactivity (Glascoe, 1999b, 2002; Mulhern, Dworkin, & Bernstein, 1993). In our study, some parents did mention concerns about their child's over-activity and short attention span. Many behaviors, which are difficult to deal with, and raise conflicts over discipline or routines, are frequent during toddlerhood and preschool years. Several studies show that parent-reported social-emotional and behavioral problems are common (Gross, Sambrook, & Fogg, 1999). Parent-reported behavioral problems have been associated with higher behavior intensity (i.e., more disturbing behaviors), greater parental stress, lower self-efficacy, and poor discipline strategies characterized by irritability, coercion, and inconsistency (Gross et al., 1999). Therefore, even if most of the children in this study seem to be functioning well, some of these parents and children may be engaged in highly stressful and coercive relationships and these parents may find an intervention to be beneficial.

In this study, the majority of parents that discussed behavioral concerns mentioned specifically problems about discipline. Hickson (1983 cit in Glascoe, 2002) also found that an important percentage of parents expressed concerns related to discipline. Although we could not find any data about the predictive value of these concerns, the high prevalence of parental concerns about discipline found in this study highlight the needs of these families in this area. Moreover, this is consistent with international guidelines about the need to provide anticipatory guidance on this topic and the call for action to this specific domain (e.g. Canadian Paediatric Society, 2004).

Most parents did not report concerns about social interaction. Those parents who did so, mentioned problems in establishing relationships and in peer interactions. According to Glascoe (2003), parental concerns about behavior and social skills are strong predictors of mental health problems in children. Therefore, parents reporting concerns about social interaction should receive careful attention from well-child care providers. On the contrary, parents without concerns in this area have a high probability of having children with no social problems (Glascoe, 2002).

Parents reported a diverse set of concerns about parenting issues. These results confirm previous research showing that, at some point, all parents will have concerns about their children and their own parental role and will need to discuss them with people outside the family context (Reijjneved et al., 2008; Glascoe). For some, parenting represents a major challenge, and they feel insecure and unsupported (Barros & Santos, 2006; Glascoe, 1999a, 1999b; Glascoe, 2002; Glascoe 2003; Moran, Ghat, & Merwe, 2004). Providing support and imparting skills to parents constitutes an important opportunity for the promotion of child development and adjustment (Barros & Santos, 2006; Silva, Eira, Vicente, & Guerreiro, 2003).
Through this study, we were able to describe parental concerns within a sample of Portuguese parents in a well-child care setting. Parents openly discussed concerns about their child and about their own parental roles, easily expressed their main concerns and needs and valued the interview as an important task.

Research shows that parents often do not discuss their behavioral concerns with the healthcare providers. Parents may not share their concerns unless asked or when questions are not systematic and well structured (Glascoe, 1997b). This raises the question of whether Portuguese parents concerns about their children and their parental role are usually discussed during regular well-child care visits. Studies show that about one third of parents do not spontaneously discuss their concerns and that parents who do so are more likely to discuss their concerns if they are worried about health or expressive language issues, and less likely if they are worried about behavioral issues (Glascoe, 1997b). It is clear that health care providers cannot depend on parents to initiate discussions relating to their concerns. International research shows that most health professionals do not evaluate parental concerns systematically (Bethell et al., 2004), and even when parents’ concerns are discussed, health professionals may not use the information collected to identify family needs and provide appropriate services (Sices, Feudtner, McLaughlin, Drotar, & Williams, 2004). In addition, parents may worry about their children, even though they are developing and behaving within the normal range (Glascoe, 1997). These parents may need some form of support that, in the absence of disclosure, is not recognized or dealt with.

These findings may constitute the foundation for important suggestions and contributions to well-child care reorganization. However, several limitations must be considered. We used a small convenience sample, which makes it impossible to generalize our findings to the overall population, even though the sample used allowed for the collection of descriptive information until saturation of data. Another limitation of this study is the absence of validation data for parental concerns, as we did not assessed child development nor had any other sources of information about child behavior. These issues should be considered in future studies.

Well-child care has been repeatedly recognized as an opportunity for the promotion of child development and adjustment. National and international guidelines for professional practice recognize the role of well-child care in primary care and make strong recommendations for the provision of integrated developmental and behavioral services, such as developmental assessment and anticipatory guidance. However, developmental and behavioral services face time constraints and several studies have shown that parents have unmet needs in this area. Recommendations for improving developmental and behavioral services in well-child care call for a strong investment in the identification and valuing of parental concerns.

The current study confirmed international research showing that eliciting parental concerns may provide well-child care providers with an opportunity to detect possible developmental and behavioral problems, as well as to promote a family-centered approach to parenting (Glascoe et al., 1998). According to the international
research, parents desire more information and support to help their children grow and develop in healthy ways (Young et al., 1998). Knowledge of Portuguese parental concerns and awareness of their relevance may guide the identification of the kinds of services and materials that need to be made available to such families.

To ensure an effective approach to behavior and development, health professionals need not only to elicit parental concerns systematically, but also to have appropriate answers for the concerns raised. Results show that parents had concerns about development, behavior and social interaction, pointing the need to consider approaches to these areas during well-child care visits. Particularly, most parents had concerns on the behavior dimension and especially about discipline issues, which focus the need to develop specific educational/counseling efforts to this area. The availability of effective parental counseling about behavior and discipline during routine primary care would be possible through the development of partnerships between primary health care professionals and mental health professionals.

Primary care professionals have regular contact with families and could provide these interventions, while mental health professionals could support the development of interventions and its implementation through training and supervision. Psychologists may play an important role as consultants to primary healthcare providers, both in promoting the systematical assessment of parental needs and helping professional to interpret these concerns, but also in supporting the development and use of educational materials and information in a language and format appropriate to these parents.

REFERENCES


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