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Home Literacy Environments of Young Children With Down Syndrome

Findings From a Web-Based Survey

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Early home literacy experiences, including parent–child book reading, account for a significant amount of children’s later reading achievement. Yet there is a very limited research base about the home literacy environments and experiences of children with cognitive disabilities. The purpose of this study is to describe findings from a Web-based survey of home literacy environments of young children with Down syndrome. Respondents (n = 107) were mostly mothers; a majority were well educated. Findings suggest that respondents gave literacy a higher priority than reported in prior research on children with disabilities. More than 70% of respondents had 50 or more children’s books and also had literacy materials including flash cards, magnetic letters, and educational videos or computer games. Most parents read to their children and used these literacy materials 10 to 30 min per day. Respondents reported that their children had reached many important early literacy milestones, and they also described having relatively ambitious lifelong literacy goals for their children. Important implications for research and practice are discussed.

**Keywords:** home literacy environment; mental retardation; exceptionalities; family/parental involvement; families/parents

For all children, learning to read is a long-term developmental process that begins with emergent literacy, the period of time between birth and when children begin to read and write (Sulzby, 1985; Teale, 1986; Whitehurst & Lonigan, 1998). More than 30 years of converging research findings agree that reading aloud to young children develops vocabulary, improves reasoning skills, introduces story grammar, and builds knowledge about the alphabetic principle, or the relationship between letters and sounds (Arnold, Lonigan, Whitehurst, & Epstein, 1994; Crain-Thoresen & Dale, 1992; Ninio & Bruner, 1978; Senechal, LeFevre, Thomas, & Daley, 1998). Additionally, parents who create a home literacy environment that is book rich and who read frequently to their children also tend to provide a richer array of environmental literacy materials, such as magazines, magnetic letters, and flash cards, for their children (Teale, 1986).

Parent–child book reading is the most widely researched aspect of emergent literacy, in large part because of the well-documented association between the frequency of early parent–child book reading and how well children learn to read (Bus, van IJzendoorn, & Pellegrini, 1995; Griffin & Morrison, 1997; Stevenson & Fredman, 1990). Researchers have found that children read to fewer than four times a week have significantly lower IQ scores than children who were read to more frequently (Stevenson & Fredman, 1990). Converging findings regarding the important role of home literacy environments support what

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Stanovich (1986) termed “the Matthew effect,” in which most children rich in early literacy experiences grow to be good readers and it is difficult for children with impoverished early literacy experiences to ever catch up.

In light of the important relationship between book reading, home emergent literacy environments, and future school achievement, it is concerning that so little research has examined the home literacy environments and emergent literacy experiences of children with disabilities. The present study addresses this important gap in the research literature on home literacy environments of students with disabilities, specifically focusing on young children with Down syndrome (DS). DS is one of the most frequently occurring causes of cognitive disability, a condition experienced by more than 350,000 individuals in the United States. Children with DS typically have IQs in the range of mild to moderate retardation.

It is not unusual for children with DS to have delayed expressive and receptive language, with expressive language relatively weaker than receptive language, but an emerging database has demonstrated that many individuals with DS can learn to read (Al Otaiba & Hosp, 2004; Appleton, 2000; Bochner, Outhred, & Pieterse, 2001; Byrne, Buckley, MacDonald, & Bird, 1995; Kay-Raining Bird, Cleave, & McConnell, 2000; Lorenz, Sloper, & Cunningham, 1985). On average, the reading levels of children with DS are below the reading levels of typically developing younger children matched on IQ scores (Casey, Jones, Kugler, & Watkins, 1988; Cossu, Rossini, & Marshall, 1993). Within the group of individuals with DS, however, there appears to be considerable variability in reading achievement. IQ seems to be an important predictor of this variability (Carr, 1995). However, it is vital to understand other potentially important factors, such as children’s home literacy environment. To do so, we conducted a review of the literature describing home literacy environments of students with disabilities that included children with cognitive disabilities or language delays.

### Home Literacy Environments and Emergent Literacy Experiences of Students With Disabilities

A small handful of researchers have used survey or observational data to describe home literacy environments of students with disabilities. Marvin and Miranda (1993) were the first to use survey methodology to directly compare the home literacy environments of students with disabilities and typically developing children. Participants in their study were families of three groups of children: (a) preschoolers enrolled in Head Start, (b) preschoolers in special education programs, and (c) typically developing children enrolled in the special education programs as peer models. The authors described more than 80% of students in the special education program as having speech and language impairments. Because students were reported as having more than one category of disabilities, including low-incidence disabilities, such as visual, hearing, physical and mental disabilities and autism spectrum disorders, it is not possible to determine the proportion of children with low- or high-incidence disabilities in their sample. Parents in these three groups were employed in skilled and technical jobs and had at least a high school diploma.

The three groups of parents reported reading to their children with similar frequency and duration. Only about 40% read at least four times a week, the minimal frequency “threshold” associated with positive reading and cognitive outcomes for typically developing children found by Stevenson and Fredman (1990). In addition, Marvin and Miranda (1993) noted that parents of children with disabilities were found to differ in four ways from the other parents: (a) They placed a lower priority on literacy, (b) they provided fewer types of literacy experiences, (c) they expected less progress from their children, and (d) they expressed lower future expectations for their children.

Marvin (1994) surveyed families of preschool children who attended early childhood special education programs to compare the home literacy environments of children with single (high incidence; mostly speech-language impairments) versus multiple disabilities (low incidence; cognitive, orthopedic, visual, and/or hearing impairments). As she found in her earlier study with Miranda (Marvin & Miranda, 1993), fewer than half of the children in either group were read to on a daily basis. In addition, the more involved the child’s disabilities, the lower priority parents placed on literacy. Other researchers have also reported that children with more severe disabilities encounter even fewer home literacy experiences than children who are less involved (Light & Kelford-Smith, 1993).

There are a few studies that have used observational research to describe the home literacy environment of children with disabilities. More than a decade ago, Fitzgerald and her colleagues (Fitzgerald, Roberts, Pierce, & Schuele, 1995) observed the home literacy environment of three preschoolers with DS. Unlike participants in prior studies who were mostly from low- to middle-socioeconomic-status (SES) backgrounds, all the parents in the Fitzgerald study were professionals who had some college education; one had a master’s degree and another was training to be a doctor. Researchers visited homes twice and reported that homes were print rich and that
the mothers valued literacy. Disturbing, however, is that researchers observed that book reading occurred at an even more modest level than reported by Marvin (1994) or Marvin and Miranda (1993). Furthermore, in contrast to Teale’s (1986) observation that families of typically developing children who had relatively more books tended to have and use a broader array of literacy materials, Fitzgerald et al. (1995) found that other types of literacy materials (reading newspapers, magazines, etc.) were used only rarely.

More recently, van Kleeck and Vander Woude (2003) reviewed the small handful of observational studies that have described parent–child shared book reading for preschool children with language delays who had no other disability. They also found that in contrast to language-matched typically developing preschoolers, children with language delays were read to less frequently (Mogford-Bevan & Summersall, 1997). Researchers mainly focused on children from low-SES backgrounds.

Thus, in summary, the extant literature we reviewed is relatively dated, and the nature, type, and severity of participating children’s disabilities have not yet been clearly reported. Furthermore, research findings are mostly based on information about lower income families, which may have overstated the magnitude of differences in emergent literacy environments for students with disabilities.

Class Differences in Home Literacy Environments

Research on book reading to young children has documented that children in low-SES homes are read to less frequently than in middle-class homes, leading to concern about lower levels of school reading readiness among children living in poverty (Ninio, 1980; Pellegrini, Galda, Jones, & Perlmutter, 1995; Sonnenschein, Brody, & Munsterman, 1996). For example, Adams (1990) estimated that when children from low-SES families begin school, they have had only 25 hr of book reading, whereas children from middle-SES families have had between 1,000 and 1,700 hr.

A more recent report, Inequality at the Starting Gate (Lee & Burkam, 2002), suggests that the disparity in book reading between low- and high-SES households may be declining in the face of national educational goals to improve parent–child engagement in emergent literacy activities (e.g., National Reading Panel, 2000; Snow, Burns, & Griffin, 1998). However, reading scores for children whose families were in the highest quintile for SES remain higher (by 56%) than scores for children whose families were in the lowest fifth for SES. The report analyzed the data from a Department of Education survey of more than 16,000 homes whose children have test scores in the Early Childhood Longitudinal Study–Kindergarten Cohort (ECLS-K; West, Denton, & Germino-Hausken, 2000) database. The authors also reported that although parents in general are reading to their children more frequently now than historically, on average, important home literacy resource differences persist between the lowest and highest SES quintiles, as shown in Table 1.

**Purpose of the Present Study**

The purpose of the present study was to provide a first step toward describing the home literacy environments of young children (birth to age 6) with DS. Although there is a small number of studies describing the home literacy environments of children with disabilities as being very limited, this research has mostly been conducted with low-income families. Because there is considerable research showing that typically developing children from low-income families come to school with relatively impoverished literacy skills, a potentially important confounding variable may have been introduced. The present study, therefore, extends the literature by exploring home literacy environments provided by educated middle-to upper-middle-class families raising children with DS. Given the limited information available to the field, such research is a much-needed precursor to causal intervention research.

The research questions guiding the study follow:

1. How many books and other reading-related materials do respondents report are available to children, and how frequently are they reportedly used?
2. At what age do respondents’ children reach emergent literacy milestones (i.e., being read to, looking at books independently, or reading)?
3. What lifelong literacy goals do families describe for their children?

**Method**

**Participants**

Recruitment. Increasingly, self-administered Web-based surveys are gaining prominence in both education and business (Dillman, 2000). This format lends itself to collecting useful information from a sample that is generally computer savvy and well educated (Dillman, 2000). With this reasoning in mind, the National Down Syndrome Society (NDSS) was contacted and asked to post a link to the survey on its Web site under the heading of “research.” NDSS is a national support group for
families and individuals affected by DS, and it is the largest nongovernmental source of support for research on DS. The link to the survey, featured on the Research page of the NDSS Web site (http://www.ndss.org), provided some background information about the authors and the purpose of the study and invited parents of children younger than the age of 10 with DS to take the survey.

Respondents. A total of 159 families responded; however, 52 were dropped from this analysis because their children were older than age 7, which is beyond the traditionally accepted developmental time frame for emergent literacy. Table 2 provides information about the gender, education, and occupations of the remaining 107 respondents; 87% were mothers, and the largest percentage of these respondents reported that they were homemakers. Notably, more than 70% of respondents reported having attained a college degree, and nearly one quarter indicated they had also completed a graduate degree. Their spouses also appeared well educated. Nearly half of these mothers indicated that they had given up professional careers to stay at home to take care of their child with DS (e.g., “former attorney—now full time mom”; “CPA [certified public accountant] on leave due to daughter’s health concerns”; “inactive nurse”; “retired military officer”); the occupations of the remaining respondents were classified as skilled workers, educators, or professionals.

Given the preponderance of homemakers in our sample who have advanced degrees and that we did not ask for occupational status of respondents’ spouses, it was not appropriate to use a traditional index of SES, such as the Hollingshead, because it heavily weights employment. Nonetheless, these parents were well educated, and it is reasonable to assume that the sample was largely composed of middle- to high-SES families.

Children. Respondents were asked to indicate their child’s gender, age, and grade level. Nearly 70% of children in our sample were female, which is surprising because more boys than girls are born with DS. Respondents indicated that children’s ages ranged from 3 months to 6 years of age, and only about 19% had started elementary school. Table 3 summarizes the children’s demographic information.

Survey

A 22-item online survey was created for this study (shown in the appendix). The items varied in response mode to include Likert-type scale items, rank-ordered items, and check-all-that-fit items (Babbie, 2001; Dillman, 2000; Mertens & McLaughlin, 1995). To facilitate comparison with the extremely limited research base, questions were adapted from the only prior survey studies of family members of children with disabilities (e.g., Marvin, 1994; Marvin & Miranda, 1993). Additional

| Table 1 |
| Home Literacy Resource Differences by Socioeconomic Status Quintile |

<table>
<thead>
<tr>
<th>Resource</th>
<th>Lowest Fifth</th>
<th>Highest Fifth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of children’s books</td>
<td>Owned about 38 children books</td>
<td>Owned 108 books</td>
</tr>
<tr>
<td>Reads to child</td>
<td>63% read to child 3 or more times weekly</td>
<td>94% read 3 or more times weekly</td>
</tr>
<tr>
<td>Has a computer</td>
<td>20% had a computer</td>
<td>85% had a computer</td>
</tr>
<tr>
<td>Television viewing</td>
<td>Watched 18 hr/week of TV</td>
<td>Watched 11 hr/week of TV</td>
</tr>
</tbody>
</table>

| Table 2 |
| Respondent Information |

<table>
<thead>
<tr>
<th>Variable</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respondent’s relation to child</td>
<td></td>
</tr>
<tr>
<td>Mother</td>
<td>86.6</td>
</tr>
<tr>
<td>Father</td>
<td>1.8</td>
</tr>
<tr>
<td>Other/Missing</td>
<td>11.7</td>
</tr>
<tr>
<td>Respondent’s education</td>
<td></td>
</tr>
<tr>
<td>Some high school</td>
<td>3.6</td>
</tr>
<tr>
<td>High school degree</td>
<td>4.5</td>
</tr>
<tr>
<td>Some college</td>
<td>21.4</td>
</tr>
<tr>
<td>College degree</td>
<td>46.4</td>
</tr>
<tr>
<td>Graduate degree</td>
<td>24.1</td>
</tr>
<tr>
<td>Spouse’s education</td>
<td></td>
</tr>
<tr>
<td>Some high school</td>
<td>6.3</td>
</tr>
<tr>
<td>High school degree</td>
<td>8.9</td>
</tr>
<tr>
<td>Some college</td>
<td>33.0</td>
</tr>
<tr>
<td>College degree</td>
<td>38.4</td>
</tr>
<tr>
<td>Graduate degree</td>
<td>13.4</td>
</tr>
<tr>
<td>Respondent’s occupation</td>
<td></td>
</tr>
<tr>
<td>Homemaker</td>
<td>37.4</td>
</tr>
<tr>
<td>Skilled/Technical worker</td>
<td>23.3</td>
</tr>
<tr>
<td>Skilled/Medical worker</td>
<td>9.4</td>
</tr>
<tr>
<td>Educator</td>
<td>25.2</td>
</tr>
<tr>
<td>Professional/Manager</td>
<td>4.7</td>
</tr>
</tbody>
</table>

Note: N = 107.
questions were developed that are based on the research questions of the current study.

The original draft of the survey instrument was piloted with a small number of respondents \((n = 10)\) we knew professionally who were members of a local branch of the NDSS. Families provided feedback and shared their perspectives on the format and substance of questions. For example, parents suggested that we replace open-ended questions with categorical multichoice formats. With regard to substance, parents reported that we were initially too limited in the selection of instructional literacy artifacts or materials used in homes. They also encouraged us to examine the amount of television time, because they felt programs were very helpful in building their children’s listening comprehension. Although parents provided feedback on the final product, we did not ask them to retake the survey.

**Results**

Survey data were entered into a database and screened. In keeping with the descriptive nature of the three research questions guiding the study, frequencies were calculated to address responses describing (a) the number of books and reading-related materials in respondents’ homes, (b) the age at which children reached emergent literacy milestones, and (c) lifelong literacy goals for children.

### Table 3
Children’s Demographics

<table>
<thead>
<tr>
<th>Variable</th>
<th>(n)</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender(^a)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>33</td>
<td>30.8</td>
</tr>
<tr>
<td>Female</td>
<td>73</td>
<td>68.2</td>
</tr>
<tr>
<td>Age</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt; 1</td>
<td>8</td>
<td>7.5</td>
</tr>
<tr>
<td>1</td>
<td>15</td>
<td>14.0</td>
</tr>
<tr>
<td>2</td>
<td>14</td>
<td>13.1</td>
</tr>
<tr>
<td>3</td>
<td>15</td>
<td>14.0</td>
</tr>
<tr>
<td>4</td>
<td>25</td>
<td>23.4</td>
</tr>
<tr>
<td>5</td>
<td>16</td>
<td>15.0</td>
</tr>
<tr>
<td>6</td>
<td>14</td>
<td>13.1</td>
</tr>
<tr>
<td>Grade</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pre-K</td>
<td>87</td>
<td>81.3</td>
</tr>
<tr>
<td>Kindergarten</td>
<td>12</td>
<td>11.2</td>
</tr>
<tr>
<td>1</td>
<td>5</td>
<td>4.7</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>2.8</td>
</tr>
</tbody>
</table>

Note: \(N = 107\).

\(^a\) One family did not report the gender of their child.

### Table 4
Percentage of Respondents Reporting by Time Category and Child Activity

![Figure 1](attachment:figure1.png)

Note: \(N = 107\).

**Number of Books and Other Reading and Instructional Materials and Frequency of Usage**

All of the respondents reported having children’s and adult books in their homes. Table 4 summarizes the types of reading materials and reading instructional materials respondents reported using at home with their children. Notably, more than three quarters of the families possessed more than 50 children’s books, and more than half reported having more than 100 books, making them similar to the upper quintile of the families in the ECLS-K database (Lee & Burkam, 2002).

Respondents were also asked to report how much time per day their child engages in the following activities: using instructional literacy materials, being read to, looking at books independently, watching television, and using the computer. Figure 1 summarizes these results. Virtually all of the children were read to daily for 10 to 30 min. Additionally, according to respondents, nearly half (43.74\%) the children looked at books or read to themselves independently for between 10 and 30 min a day. All but about 15\% of children watched educational or noneducational television for more than a half an hour daily. Computer usage was more limited, but this finding is not surprising, given the large percentage of young
When asked who generally reads to their child, more than 50% (52.3%) of respondents reported that the parent read to the child, about 20% (24.3%) reported an older sibling, and the remainder answered caregiver, grandparent, or other (23.3%).

Age at Which Children Reached Emergent Literacy Milestones

Table 5 summarizes the age respondents reported that children acquired important emergent literacy milestones. Most respondents (81.3%) reported they began reading to their child by age 2. Similarly, 82.2% reported that their child began to be aware of family members’ reading behaviors by age 2, and 66.4% had begun to independently look at books for pleasure by that age. Not surprisingly, only a small minority of respondents (16%) indicated that their children began to read by age 6 (we defined reading as sounding out words such as cat, recognizing sight words such as the, and/or using these skills to read short books). Given our definition, it was surprising that one mother reported that her child began reading by age 1. The majority of respondents (87%) indicated that their children had begun to independently look at books for pleasure, and more than 65% of respondents indicated children began this behavior very early, between the ages of 1 and 2.

Parents’ Literacy Goals for Their Children

Parents were asked to rank order their lifelong literacy goals for their children. The goal ranked consistently most important by parents was for their children to recognize the alphabet (75.86%). More than 30% of parents rated among their top three reading chapter books (60.69%), reading signs for safety (45.52%), reading for job literacy (35.17%), and reading for pleasure (31.72%). Rated less frequently as a top goal were reading the mail (23.45%), reading aloud in school (18.62%), and reading newspapers (6.90%).

Discussion

The families of children with cognitive disabilities who responded to our online survey differed from prior
research in that they were better educated, they provided more print-rich home literacy environments for their children, and they read books and used a wider variety of other reading instructional materials with greater frequency. The majority (80%) had more than 50 children’s books at home, and a substantial minority (17%) had more than 200. This finding is important because none of the previous research on children with disabilities has reported the number of books, reading materials, or reading instructional materials that families have in their homes. It also suggests that, like well-educated families of typically developing children, respondents created print-rich home environments.

Furthermore, it is encouraging that nearly all of the respondents reported reading to their children and using literacy instructional materials at least 10 to 30 min a day. This is more than double the percentage than was reported by Marvin and Miranda (1993), who found that only 40% of the preschool children with disabilities from homes of less-educated parents were read to even as often as four times a week, the critical threshold Stevenson and Fredman (1990) found to be reliably associated with higher reading achievement in a study of typically developing children. Additionally, Adams (1990) estimated that this frequency of book reading would result in children entering school having been read to for more than 1,000 hr, which is similar to middle-class families of typically developing children.

In addition to reading to their children more frequently than reported in prior research, nearly half of parents in the present study reported that their children regularly looked at books on their own for at least 10 min daily. More than 60% of respondents said their children used reading instructional materials such as flash cards or magnetic letters for 10 to 30 min daily, and about a third of the children used the computer daily. Perhaps not surprisingly, more than 60% of children watched television for more than 30 min a day. Thus, unlike the relatively less-educated respondents in Marvin and Miranda’s (1993) study, the respondents in the present study appeared to provide a broad and relatively rich array of literacy materials and experiences for their children. These materials and experiences are consistent with researchers’ and policy makers’ recommendations for parents related to early home literacy (see, for example, Put Reading First: Helping Your Child Learn to Read at http://www.nifl.gov/partnershipforreading/publications/Parent_br.pdf).

On the basis of parents’ reports, these children with DS appeared to reach many of the emergent-literacy milestones (i.e., being read to, looking at books independently, being aware of family members’ reading) at ages that are similar to typically developing children. One mother wrote, “I’ve read to my son from the day I found out I was pregnant. We’re starting early. He’s only 10 months old, but he is learning.” Given converging findings demonstrating the importance of early exposure to books, the finding that the overwhelming majority (84.10%) of children in the present study had been read to by age 5 is very encouraging.

Given research showing that reading trajectories are established early (e.g., Stanovich, 1986), it is hopeful that parents reported that more than 40% of the 30 children ages 5 and 6 had started reading, defined as decoding simple words such as cat or recognizing simple sight words such as the and using these skills to read short books. It was surprising that five parents reported that their children had begun to read by age 4, and unfortunately, the nature of the Web-based survey that protected parents’ confidentiality precluded our ability to contact them to confirm their answers. However, early reading is not totally unknown in the literature about individuals with DS. For example, Bishop (2006) reported in a case study that three children with DS successfully learned to read 50 sight words before their third birthday.

More than three quarters of parents reported that their top literacy goal for their child was to recognize their alphabet. Yet reading for meaning, including reading for pleasure, reading chapter books, and reading for job purposes were also highly ranked. These goals suggest that our respondents gave literacy writ large a higher priority than previous researchers have reported (Fitzgerald et al., 1995; Light & Kelford-Smith, 1993; Marvin, 1994; Marvin & Miranda, 1993).

Limitations and Implications for Research and Practice

As in any research, there are several important limitations to this study. There is no rate of response for a Web-based survey, and therefore, there is no way of examining whether there are potentially important differences between respondents and nonrespondents (Dillman, 2000). Families were purposefully sampled rather than randomly selected, so characteristics of families and children are not likely to be representative of all families of children with DS. As with all surveys, self-reported data may not be accurate. For example, although we defined child reading as “sounding out words and using these skills to read short books,” when respondents described their young children as reading independently or reading for pleasure, it is unclear if they included pretend reading or looking at pictures rather
than reading connected text. Furthermore, we did not address whether the presence of other children in the family affected the number of books present in the home environments. Finally, we did not measure children’s actual language or reading ability.

These limitations notwithstanding, given the limited knowledge base about parents’ literacy expectations for children with DS and the ways in which parents engage their young children in literacy practices at home, the present study provides a helpful first step in beginning to understand the role of parents’ literacy expectations and practices. A potentially important implication of the study is that parents expected their children to learn to read for meaning rather than for just functional literacy. Future research should examine the relationship between parents’ early expectations and their children’s achievement and should explore whether as much unique variance in reading achievement is predicted by preschool reading as Bus et al. (1995) found when examining literature on typically developing children.

Related to this, additional research with larger sample sizes is needed to investigate not only the main effect of the impact of a child’s disability or the main effect of SES but also the interaction between the two on home literacy environment and subsequent reading achievement. An examination of the large national databases, such as the U.S. Department of Education’s ECLS-K (West et al., 2000), that includes disaggregated data for students with disabilities could provide an important next step in extending this research.

Personnel working to provide family services with early intervention services could show families additional ways to embed literacy activities into everyday life and could also work with parents to learn what types of literacy materials they are interested in using with their children. Providing families with limited resources access to libraries of not only books but also hands-on instructional materials also could be helpful. Finally, personnel may need to be better prepared to meet the needs of these parent-advocates who have high literacy expectations for their children. This preparation is important because many special educators have not had adequate training in general reading instruction or in specific emergent literacy strategies, which, clearly, these parents value and are likely to demand.

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**Appendix**

**Home Literacy Survey**

Child’s Date of Birth: ___________________________ Gender: ____________ choose one

1. What is your occupation?

2. What is your highest level of education?
   - [ ] Some high school
   - [ ] High school diploma
   - [ ] Some college or vocational training
   - [ ] College degree
   - [ ] Graduate degree

3. What is your child’s other parent’s highest level of education?
   - [ ] Some high school
   - [ ] High school diploma
   - [ ] Some college or vocational training
   - [ ] College degree
   - [ ] Graduate degree

4. Are there siblings or other children living in your home?
   - [ ] No
   - [ ] Yes

(continued)
5. Prior to entering kindergarten, which of the following types of special education services or support did your family receive or access?

_____ Home visits by an early interventionist
_____ Center- or school-based program only for children with the type of disability your child has
_____ Center- or school-based program for children with other kinds of disabilities
_____ Center- or school-based program for children with disabilities and children without disabilities (an inclusive program)
_____ No program

6. To what extent did these services involve you or your family in your child’s reading and writing development?

_____ No involvement
_____ Little involvement
_____ Occasional involvement
_____ Extensive involvement

7. How much time does your child spend reading on his or her own per day?

_____ none
_____ about 10 minutes
_____ between 15 and 30 minutes
_____ more than 30 minutes

8. Who generally reads to or with your child? How much time does your child spend being read to or reading with a family member per day? Please indicate the time (e.g., none, 10 minutes or less, 15-30 minutes, or more than 30 minutes).

_____ parent
_____ grandparent
_____ sibling
_____ caregiver
_____ other; please describe _______________________________

9. How much time does your child spend watching TV per day?

_____ none
_____ about 30 minutes
_____ between 30 and 60 minutes
_____ more than 60 minutes

10. How much time does your child spend on the computer per day?

_____ none
_____ about 30 minutes
_____ between 30 and 60 minutes
_____ more than 60 minutes

11. At what age did you start to read to your child?

_____ not yet
_____ before 1
_____ between 1 and 2
_____ between 3 and 4
_____ between 5 and 6
_____ between 7 and 8
_____ between 9 and 10

12. At what age did your child become aware of or see you or other family members reading for pleasure?

_____ not yet
_____ between 1 and 2
_____ between 3 and 4
Appendix (continued)

____ between 5 and 6
____ between 7 and 8
____ between 9 and 10
____ don’t read for pleasure

13. How often is your child aware of you or another family member reading?

_____ daily
_____ every other day
_____ weekly
_____ monthly
_____ almost never

14. At what age did your child begin to read (sound out words like “cat,” read words like “the,” and use these skills to read short books)

_____ not yet
_____ between 1 and 2
_____ between 3 and 4
_____ between 5 and 6
_____ between 7 and 8
_____ between 9 and 10

15. At what age did your child begin to independently look at books or read for pleasure?

_____ not yet
_____ between 1 and 2
_____ between 3 and 4
_____ between 5 and 6
_____ between 7 and 8
_____ between 9 and 10

17. Estimate the number of children’s books in your home.

_____ none
_____ 0-50
_____ 50-100
_____ 100-200
_____ more than 200

18. Estimate the number of adult-level books in your home.

_____ none
_____ 0-50
_____ 50-100
_____ 100-200
_____ more than 200

19. Check the other literacy materials you have and use at home (check all that apply).

_____ newspapers
_____ children’s magazines
_____ magazines
_____ encyclopedias
_____ other: please describe ________________________________

20. Check the literacy instructional materials you have used with your child at home (check all that apply).

_____ flash cards
_____ workbooks
_____ books on tape

(continued)
Appendix (continued)

____ magnetic letters
____ educational videos or computer games
____ other: please describe __________________________________

21. How much time does your child spend using these materials each day?
_____ none
_____ about 10 minutes
_____ between 15 and 30 minutes
_____ more than 30 minutes

22. Please rank order from 1 to 8 (in terms of immediacy and importance; 1 is the goal we are working on right now that is important) the following literacy goals you have for your child:

<table>
<thead>
<tr>
<th>Right now</th>
<th>Life-long goals</th>
</tr>
</thead>
<tbody>
<tr>
<td>to recognize the alphabet</td>
<td></td>
</tr>
<tr>
<td>to read chapter books</td>
<td></td>
</tr>
<tr>
<td>to read signs for safety</td>
<td></td>
</tr>
<tr>
<td>to read for job literacy</td>
<td></td>
</tr>
<tr>
<td>to read for pleasure</td>
<td></td>
</tr>
<tr>
<td>to read newspapers</td>
<td></td>
</tr>
<tr>
<td>to read aloud in school</td>
<td></td>
</tr>
<tr>
<td>to read the mail</td>
<td></td>
</tr>
<tr>
<td>list other</td>
<td></td>
</tr>
<tr>
<td></td>
<td>list other</td>
</tr>
</tbody>
</table>

Note: Item 5 was not analyzed in the present study.

References


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