So Many Books They Don’t Even All Fit on the Bookshelf”: An Examination of Low-income and Ethnic Minority Mothers’ Home Literacy Practices, Beliefs, and Influencing Factors

Brook E. Sawyer  
*Lehigh University*

Lauren M. Cycky  
*Temple University*

Lia E. Sandilos  
*University of Virginia*

Carol Scheffner Hammer  
*Columbia University*

Follow this and additional works at: [https://preserve.lehigh.edu/coe-faculty-publications](https://preserve.lehigh.edu/coe-faculty-publications)  
Part of the [Early Childhood Education Commons](https://preserve.lehigh.edu/coe-faculty-publications) and the [Language and Literacy Education Commons](https://preserve.lehigh.edu/coe-faculty-publications)

**Recommended Citation**  
Sawyer, Brook E.; Cycky, Lauren M.; Sandilos, Lia E.; and Scheffner Hammer, Carol, "So Many Books They Don’t Even All Fit on the Bookshelf": An Examination of Low-income and Ethnic Minority Mothers’ Home Literacy Practices, Beliefs, and Influencing Factors" (2016). Faculty Publications. 5.  
[https://preserve.lehigh.edu/coe-faculty-publications/5](https://preserve.lehigh.edu/coe-faculty-publications/5)

This Article is brought to you for free and open access by the College of Education at Lehigh Preserve. It has been accepted for inclusion in Faculty Publications by an authorized administrator of Lehigh Preserve. For more information, please contact preserve@lehigh.edu.
“So many books they don’t even all fit on the bookshelf”: An examination of low-income mothers’ home literacy practices, beliefs, and influencing factors

Brook E Sawyer
Department of Education and Human Services, Lehigh University, USA

Lauren M Cycyk
Department of Communication Sciences and Disorders, Temple University, USA

Lia E Sandilos
Center for Advanced Study of Teaching and Learning, University of Virginia, USA

Carol Scheffner Hammer
Department of Biobehavioral Sciences, Teachers College, Columbia University, USA

Corresponding Author:
Brook Sawyer, Lehigh University, 111 Research Drive, Iacocca Hall A-111, Bethlehem, PA 18015, USA.
Email: brooksawyer@lehigh.edu

Acknowledgements

We gratefully acknowledge the support provided by grants from the American Speech-Language-Hearing Association and the National Institutes of Health, National Institute of Child and Human Development (U01HD060296) awarded to Carol Scheffner Hammer as well as support from the Institute of Education Sciences, U.S. Department of Education, through Grant R305B130013 to the University of Virginia. The opinions expressed are those of the authors and do not represent views of any funding organizations. We would like to thank the families who participated in this study as well as members of our research team for their assistance with this project.
Abstract

Given the need to enhance the academic language and early literacy skills of young children from low-income homes and the importance of the home literacy environment (HLE) in supporting children’s development, the purpose of this qualitative study was to better understand the HLE of low-income African-American and Latino mothers of preschool children living in the United States. Specifically, research aims were to examine HLE practices, beliefs and influential factors as well as to compare the HLE of African-American and Latino, specifically Puerto Rican, families. Semi-structured interviews were conducted with 10 African-American and 10 Puerto Rican mothers. Data were analyzed using the consensual qualitative research method. Twelve themes were identified: provision of educational materials, engagement with books, focus on print, implicit language opportunities, focus on other pre-academic skills, social interactions with books, influence of school, influence of other adults, parent reading interest/ability, child reading interest, parent commitment to child’s success, and family stressors. Few differences emerged between African-American and Puerto Rican mothers. Implications for language and literacy intervention development are discussed.

Keywords:  
Home literacy environment, language, early childhood literacy, family involvement, home practices, cultural diversity, Latinos/as
“So many books they don’t even all fit on the bookshelf”: An examination of low-income mothers’ home literacy practices, beliefs, and influencing factors

It is well documented that the early language and literacy skills of preschool-aged children predict later reading success in the school-age years (e.g., NELP, 2008). Young children from low socio-economic status (SES) homes often have lower academic language and early literacy skills than their peers from higher SES backgrounds, and are thus on a trajectory for poorer reading skills in the school-age years (e.g., Brooks-Gunn, Rouse, & McLanahan, 2007; Hart & Risley, 1995; Hoff, 2006; Korat, Klein, & Segal-Drori, 2007; Washbrook & Waldfogel, 2010). In the United States, this is a critical concern given that 48% of children six years of age and under live in low-income homes (Jiang, Ekono, & Skinner, 2015). Children who are racial/ethnic minority experience disproportionate rates of living in or near poverty (69% of African-American children, 66% of Latino children, 34% Caucasian children; Jiang, Ekono, & Skinner, 2015). Furthermore, the population of racial/ethnic minority children is expected to become the majority by 2020 (Child Trends, 2014).

International data evidences that the home language and literacy environment (HLE) is a way to improve the academic language and early literacy skills for young children (e.g., Aikens & Barbarin, 2008; Aram & Levin, 2002; Farver, Xu, Eppe, & Lonigan, 2006; Korat et al., 2007; Justice & Ezell, 2000; Raikes et al., 2006; Sénéchal & Young, 2008; Whitehurst et al., 1994) and support later reading achievement (Leseman & de Jong, 1998; PIRLS, 2007; Sénéchal & Young, 2008). Furthermore, the HLE mediates the relation between SES and children’s early language and literacy development (Foster, Lambert, Abbott-Shim, McCarty, & Franze, 2005; Raviv, Kessenich, & Morrison, 2004). As conceptualized by Sénéchal and LeFevre (2002) in their HLE model, the HLE is comprised of both formal, such as direct literacy teaching (e.g., explicitly
teaching letter names and sounds), and informal interactions, such as adult-child book reading. Furthermore, HLE practices are often differentially associated with children’s language and literacy skills. For instance, the quantity and quality of adult-child book reading and conversations (i.e., informal dimension) are typically related to language development, whereas direct literacy teaching (i.e., formal dimension) is related to early literacy skills (e.g., Aram & Levin, 2002; Bus, van Ijzendoorn, & Pellegrini, 1995; Evans, Shaw, & Bell, 2000; Fritjers, Barron & Brunello, 2000; Kim, 2009; McDuffie & Yoder, 2010; Mahoney & Powell, 1988; Raikes et al., 2006; Reese & Cox, 1999; Sénéchal & LeFevre, 2002; Sénéchal & Young, 2008).

Given the importance of the home literacy environment, early childhood initiatives and interventions often target enhancements to the HLE, especially in the case of low-income children who are at risk for less than optimal school performance. For instance, in the United States, Reach Out and Read is a national initiative whereby pediatricians provide parents of young children free books and suggestions on how to promote language and literacy development. In Mexico, the National Reading Program’s (PNL) 11 + 5 Actions for Integrating a Community of Readers and Writers in Preschool entails preschool teachers actively supporting the home literacy environment. Yet, a recent meta-analysis of 31 home-based language and literacy interventions, conducted primarily in the United States, found that interventions were less effective for low SES than for high SES families (Manz, Hughes, Barnabas, Bracaliello, & Ginsburg-Block, 2010). This finding aligns with the meta-analysis conducted by Mol and colleagues (2008), which focused specifically on dialogic reading and its relation to children’s oral language outcomes; Mol and colleagues found a striking difference in effect sizes for children who came from lower SES homes ($d = .13$) versus higher SES homes ($d = .53$).

It is possible that the diminished effectiveness of HLE interventions for low-income
families is due to the fact that many existing interventions are configured on beliefs and practices of higher SES homes and schools. Language and literacy (and other) practices are culturally defined and are associated with parents’ goals for children, view and uses of language and literacy, and the overall home environment (e.g., Carrington & Luke, 2003; Gillanders & Jiménez, 2004; Heath, 1983). Interventions that do not align with families’ values, strengths, and goals are often associated with higher participant attrition or lower implementation of desired practices, whereas interventions that are in alignment with families’ perspectives may be more effective (Boyce, Innocenti, Roggman, Norman, & Ortiz, 2010; Carrington & Luke, 2003; Janes & Kermani, 2001; Roggman, Cook, Peterson, & Raikes, 2008). In the US, the National Association for the Education of Young Children (2009) recognizes this critical need for culturally and linguistically responsive interventions that support children’s skills in a way that positively builds on families’ beliefs and practices. In order to design more effective interventions for children from low-income homes, more research is needed so that interventionists can employ a culturally-responsive and strengths-based perspective that builds upon family HLE practices already in place and beliefs families hold. Additionally, factors that influence these beliefs and practices must be considered.

This study focuses on the home literacy beliefs and practices of low-income racial/ethnic minority families in the United States; specifically, we focused on African-American and Latino families because they experience the highest rates of poverty and are also the most prevalent minority ethnic/racial groups (Jiang et al., 2015). Quantitative studies provide critically important information about the associations between the HLE and preschool children’s outcomes. Yet, by design, they do not provide rich descriptive accounts of families’ beliefs and practices that are needed to best inform intervention development. Rigorous qualitative studies
have provided foundational knowledge about the HLE of low-income African American and Latino families with young school-age children or mixed-age children (Delgado-Gaitan, 1990; Goldenberg, Reese, & Gallimore, 1992; Heath, 1983; Paratore, Melzi, & Krol-Sinclair, 2003; Purcell-Gates, 1996; Reese & Gallimore, 2000; Reese, Goldenberg, Loucky, & Gallimore, 1995; Reese, Mejía Arzu, & Bazán, 2012). Yet, fewer studies have provided an in-depth examination exclusively of families of preschool children (cf., Hammer, Nimmo, Cohen, Draheim, & Johnson, 2005; Perry, Kay, & Brown, 2008; Teale, 1986). Given that low-income parents’ HLE beliefs and practices may change once children enter the formal educational system (Purcell-Gates, 1996; Reese & Gallimore, 2000), the findings on school-age children may not be generalizable to beliefs and practices with preschool children. More research is needed on the HLE of families with preschool children.

Internationally, researchers have frequently compared the beliefs and practices of racial/ethnic majority families with racial/ethnic minority families (e.g., Bus, Leseman, & Keultjes, 2000; Brooks-Gunn & Markman, 2005; Raikes et al., 2006). Because of the confounded nature of low-income and racial/ethnic minority status in the U.S. (Jiang et al., 2015), it is important to also examine whether similarities and differences exist between low-income racial/ethnic minority groups. While some work has been conducted on this topic, it has focused on practices rather than beliefs or factors that influence the HLE (Hammer et al., 2005; Teale, 1986). Valuable information about the development of culturally-sensitive HLE interventions may be gained through a broadened investigation. Thus, the purpose of this qualitative study was to expand the field’s knowledge of the language and literacy beliefs, practices, and influencing factors of low-income African-American and Latino mothers whose children were enrolled in preschool in the United States.
Home language and literacy environment in low-income homes

The home language and literacy environment promotes children’s early language and literacy skills, including children from low-income homes (e.g., Farver et al., 2006; Raikes et al., 2006; Sénéchal & LeFevre, 2002). For optimal success, interventions to support children’s skills through enhancement of the HLE must be culturally-responsive and strengths-based (e.g., Carrington & Luke, 2003; Janes & Kermani, 2001. As such, it is important to identify the typical home language and literacy practices of low-income families from diverse backgrounds, their beliefs about literacy development, and what influences these beliefs and practices.

Home language and literacy practices. Extant research findings indicate that low-SES families read less frequently, own fewer books, ask fewer questions of their children and talk less with their children than higher SES families (e.g., Brooks-Gunn & Markman, 2005; Hart & Risley, 1995; Hoff, 2006; Korat et al., 2007). However, findings such as these may lead to misguided assumptions that low-income families are deficient as well as homogeneous in their practices. In reality, Van Kleeck (2013, 2015) provides a compelling argument for researchers and educators to distinguish between casual, every day talk and academic talk that is the norm of educational settings. While extant research indicates that low-income families use lower levels of academic talk, it is important to not over-generalize these findings and paint families as less capable. That is, the home language environment of low-income families is sufficiently well-adapted to their day-to-day living demands (Lareau, 2011; van Kleeck, 2013, 2015).

Furthermore, the frequency and type of home language and literacy practices in these homes differ (e.g., Hammer et al., 2005; Heath, 1983; Purcell-Gates, 1996; Raikes et al., 2006; Teale, 1986).
Some low-SES homes provide children with numerous literacy experiences, both formal and informal (Purcell-Gates, 1996; Paratore et al., 2003; Reese et al., 2012; Teale, 1986). For instance, in her observational year-long study of 24 low-income racially/ethnically diverse families of mixed age children (preschool to kindergarten), Purcell-Gates found that as many as four reading and writing events occurred per hour in some homes, although the average for all homes was less than one hourly event. Home literacy experiences may be more prevalent when children are school-age (Purcell-Gates, 1996; Reese & Gallimore, 2000), suggesting that parents believe that children reap more benefit from the HLE when they are older.

Extant research, although limited, indicates that direct literacy teaching may be a priority in low-income homes of preschool children (Paratore et al., 2003; Perry et al., 2008; Teale, 1986). In his racially/ethnically diverse sample (i.e., Caucasian, Latino, and African-Americans) of low-income families, Teale (1986) found that direct literacy teaching (e.g., teaching letter names, shapes) comprised approximately 20% of the home literacy time. Perry and colleagues (2008) examined ways in which Hispanic parents modified instructional activity packets that came home from preschools. Among other practices, parents routinely engaged in direct instruction, such as repetitive drilling on the meaning of vocabulary words, with their children. Yet, it is not known whether these findings translate beyond school-provided materials to other literacy interactions in the home.

Researchers have also found variation in how low-income mothers read to their preschool children (Bus et al., 2000; Boyce et al., 2004; Hammer et al., 2005; Teale, 1986). For instance, Hammer and colleagues (2005) found four distinct styles of adult-child shared book-reading: labeling, child-centered, text-reading and combinational in their study of African-American and Latino families. The combinational style aligned the most closely with an interactive reading
style that is often used in classrooms and higher SES homes. Yet, both the labeling and the child-centered styles provided opportunities for children to be active participants in the reading interactions.

The strategies parents use to promote children’s language development are also important to consider. A limited number of studies have examined the language environment of low-income racially/ethnically diverse families with young children (Hammer and Weiss, 2000; Hart & Risley, 1995; Heath, 1983). Overall, findings suggest that low-income families do not make intentional efforts to promote their children’s language development. Rather, parents believe that children learn to talk through observing adults and engaging in conversations (Hammer and Weiss, 2000; Heath, 1983). Given the dearth of research in this area, more information is needed on low-income parents’ practices to facilitate the language development of their preschool children.

*Literacy beliefs.* Few researchers have examined parents’ beliefs about how to promote language and literacy development for young children. Perry and colleagues (2008) found that Hispanic mothers of preschool children believed that literacy activities should be pleasurable, and as such, used movement and acting to add entertainment when reading with their children. When considering the literacy beliefs of families of young school-age children of varying racial/ethnic backgrounds, parents commonly emphasize a decoding or a phonics-based approach to learning to read (DeBaryshe, Binder, & Buell, 2000; Evans, Fox, Cremaso, & McKinnon, 2004; Reese & Gallimore, 2000; Reese et al., 2012). Additionally, Reese and colleagues (1995) found that low-income Hispanic parents of kindergarteners strongly valued their children’s education and demonstrated this value by attaining books or educational materials, even though parents may never engage their children in using these resources. However, it is not known
whether these foci on phonics and materials are evident with families of preschool children. Further research is needed on the literacy beliefs of parents of preschool children.

**Influential factors.** In order to develop effective interventions, it is important for researchers to identify what influences families’ beliefs and practices. In this way, interventions can be more targeted in their content and delivery. A primary interest of this study is to examine the similarities and differences of the HLE between low-income African-American and Latino families, and thus the studies that have examined the HLE through this lens will be described. Additionally, the empirical work to date with low-income families of young children has identified other possible factors, such as influence of school, mothers’ reading ability, children’s reading interest and abilities, other family members, and family stressors. Moreover, very few studies focused specifically on preschool children, and as such, these factors should be further investigated with this population.

**Race/ethnicity.** Few researchers have examined similarities/differences in the home literacy practices with preschool children between low-income racial/ethnic groups, and findings have been inconsistent. In a study including low-income Caucasian, African-American, and Latino families, Teale (1986) found that race did not predict frequency or type of HLE practices. Although Stokes and Anderson (1984) also found no differences in the frequency of storybook reading among low-income racial/ethnic families, the researchers found differences in other domains of literacy, such as the duration of literacy events and the frequency with which children initiated literacy events. More recent research focused specifically on book-reading styles has found differences between mothers of different racial groups (Bus et al., 2000; Hammer et al., 2005). To the best of our knowledge, no studies have investigated similarities and differences in literacy and language beliefs or influential factors on beliefs and practices. To develop culturally-
responsive interventions, more attention should be paid to whether similarities and differences exist between low-income minority racial groups.

**Influence of school.** Experiences with formal educational systems influence home literacy practices in varied ways. Mothers’ own formal schooling experiences are related to literacy practices for young school-age (Reese & Gallimore, 2000; Reese et al., 1995; Reese et al., 2012) and preschool children (Teale, 1986). Specifically, mothers often employ formal literacy strategies, such as an emphasis on repeated practice of phonics skills that are similar to those that they experienced as children learning to read. Schools also are also the source of many literacy materials for families (Goldenberg et al., 1992; Paratore et al., 2003; Teale, 1986). Families engage in more literacy activities at home when their children enter and progress through formal schooling (Purcell-Gates, 1996; Reese & Gallimore, 2000).

**Mothers’ reading interest and ability.** Mothers’ reading interest and ability influences literacy interactions. Parents who personally read more and perceive themselves as more academically competent are more likely to engage their children in more literacy activities, including shared book-reading (Machida, Taylor, & Kim, 2002; Reese et al, 2012). During shared book-reading, mothers with greater reading proficiency focus more on ensuring that their preschool children understand the story than on reading the text or discussing the pictures (Bus et al., 2000; Neuman, 1996).

**Children’s reading interest and ability.** Children can be the primary initiators of home literacy activities, and thus children’s interest is an influential factor in the frequency and types of activities that occur in low SES homes of kindergarten children (Goldenberg et al., 1992; Reese et al., 1995). Children who are more interested in literacy experiences increase their language and literacy exposure through asking parents to read to them or how to spell words. In
regard to children’s ability, researchers have found that low-income parents adjust their interactions with toddlers and preschoolers based on the children’s perceived understanding (e.g., Hammer et al., 2005; Hammer & Weiss, 2000; Perry et al., 2008). For instance, Perry and colleagues (2008) found that low-income Latino parents adjusted their teaching interactions according to their perception of their preschool children’s developmental needs, such as using more demonstration (versus prompting) when their children were less competent in that skill.

*Older siblings and other family members.* Older siblings and other family members may further influence family’s literacy activities (Perry et al., 2008; Reese et al., 1995). In some families, siblings were active participants in literacy activities with preschool or kindergarten children (Perry et al., 2008; Reese et al., 1995). Other family members, such as aunts and uncles, read to kindergarten children or teach academic concepts (Reese et al., 1995).

*Family stressors.* Family stress (e.g., financial insecurity, long working hours, family violence) often negatively relates to home literacy practices (Foster et al., 2005; Machida et al., 2002; Reese et al., 1995). Machida et al. (2002) found that stress may indirectly influence home learning activities through its negative effect on parents’ self-efficacy.

*Research aims*

The importance of the HLE in supporting children’s language and literacy development is well-established. Given the growing diversity of the United States, more research is needed to better understand the home language and literacy environment of low-income preschool children from racially diverse backgrounds. Specifically, we sought to answer three research questions with a sample of low-income African-American and Latino mothers whose children were enrolled in preschool in the U.S.: (a) What are children’s home language and literacy experiences?; (b) What beliefs do mothers have about how children learn to read?; and (c) What
factors have influenced mothers’ beliefs and practices? For each of these questions, we examined similarities and differences between African-American and Latino mothers.

**Method**

**Participants**

Twenty mothers of preschool-aged children attending Head Start in an urban area of a northeastern state in the United States participated in this study. Head Start is a program in the United States that provides free preschool education to children ages 3-6 years of age who live in poverty. The average age of the children in this study was 54 months. All families were low-income, given that their families qualified financially for childcare through Head Start. Ten mothers were African-American, and ten were Latino. The Latino mothers were all of Puerto Rican descent, which was the largest Latino population in the local community. On average, the mothers were 26 years of age (range: 20-37 years) and had 12 years of education (range: 9-16 years). Most (65%) had completed 12th grade. More than half of the mothers (60%) were single parents. The mothers had between one and six children, with two to three children being the most prevalent. In regard to siblings, ten families (50%) had at least one school-age child. Half (50%) of the Puerto Rican mothers, and 70% of the African-American mothers were employed outside of the home. The Puerto Rican mothers all were Spanish-English bilingual. While all mothers spoke some Spanish to their children, nine (of the ten) Puerto Rican mothers reported English was the primary language used with their children.

**Procedures**

The mothers participated in individual semi-structured interviews with the fourth author (principal investigator), an expert in ethnographic methods. The interviews were conducted in
the homes and lasted between one to three hours, depending on the mother. The interviews were voice recorded and later transcribed verbatim.

Guiding questions were designed to elicit information on the mothers’ beliefs and practices regarding language and literacy development. Specifically, questions focused on (a) mothers’ roles in promoting language and literacy development (e.g., What did you do to help your child learn to talk?; What are you doing to help your child learn to read?); (b) mothers’ beliefs about how children’s literacy skills develop (How do you think children learn to read?); and (c) influences on language and literacy practices (e.g., What suggestions, if any, have you gotten from others about helping your child get ready to read?; Has your child’s teacher or home visitor given you suggestions?; What were your experiences with adults reading books to you?). Follow-up questions were used to gather additional information or to clarify mothers’ responses.

Analytic Plan

Analysis of the interview transcripts proceeded in several stages using a modified version of the consensual qualitative research method (CQR) developed by Hill and colleagues (1997). Overall, CQR is an inductive coding approach that involves a primary research team and uses a constant comparison approach (i.e., continuously comparing data to emerging categories) to arrive at consensual coding decisions. The primary research team included three members with expertise in emergent language and literacy development. Qualitative coding was conducted with Dedoose (www.dedoose.com), a web-based application.

Two members of the research team independently read all twenty of the interviews in their entirety in order to identify an initial list of discrete codes that were applicable to the research aims (see Table 1). A third member of the research team reviewed the initial code list for completeness and clarity. All three members of the research team independently coded and
discussed four randomly selected transcripts. This process led to the elimination of overlapping codes and the clarification of codes’ operational definitions.

The remaining 16 transcripts were randomly divided among the research team for independent coding by one primary coder. Then, a second team member was randomly assigned as an auditor. The auditor’s role was to review the transcripts and insure that the data were properly represented. For instance, the auditor would provide feedback on whether the applied codes were accurate and whether additional codes were warranted. The primary coder and auditor then discussed each transcript to come to a consensual decision. If the primary coder and the auditor were unable to come to agreement or if clarification of a code’s operational definition came into question, the discussion was opened to include the third coder. Discussion continued until consensus was reached. After consensus coding of the 20 transcripts was achieved, the team then closely examined the coded excerpts and clustered codes of similar content into themes that addressed the purposes of this study (see Table 1).

*Emergence of similarities and differences.* In the last stage of analysis, the data from African-American and Puerto Rican mothers were compared. Similar to the procedures of Oolekkind-Marchand and colleagues (2006), frequency counts of codes for each group were calculated. Codes that were applied at least 50% more frequently in one racial group than the other were considered for further analysis of group differences. For each of the imbalanced codes, all members of the research team individually reviewed and discussed the excerpts associated with those codes in order to reach consensus on the emergence of differences.

**Results**

Twelve themes emerged for the first three research questions that focused on children’s home language and literacy experiences, mothers’ language and literacy beliefs, and influential
factors. Table 1 illustrates the research questions, corresponding themes, and codes. Similarities and differences between the African-American (AA) and Puerto Rican (PR) mothers will be detailed for each research question. Differences are indicated by an asterisk in Table 1.

**Research question 1: Children’s home language and literacy experiences**

Five themes emerged about children’s home language and literacy experiences. These themes were: provision of educational materials, engagement with books, focus on print, implicit language opportunities, and focus on other pre-academic skills.

*Provision of educational materials.* Prior to describing the home language and literacy activities, it is important to note that all mothers discussed the provision of educational materials. Nineteen mothers (10 AA, 9 PR) indicated owning children’s books. For some of these families, children had a large quantity of books. For instance, one African-American mother described the number of children’s books they have: “Oh my gosh. He’s got over a 100 books. He’s got so many books they don’t even all fit on the bookshelf.”

Nineteen mothers (9 AA, 10 PR) also described having other educational materials in the home, such as flashcards, puzzles, and computer games. Mothers mentioned computers and electronic toys as a way to teach academic concepts. One Puerto Rican mother described an electronic toy called Teaching Teddy that taught her son letters and other pre-academic skills:

> Each day, I have this, these tapes called Teaching Teddy and um, one of them speaks about the alphabet and it tells them in detail and he can play along with it. His shapes and uh, shapes, alphabet and certain pictures that go along with the alphabet and he's able to pick them out and stuff like that.

In general, when mothers discussed educational materials, more focus was placed on owning the resources than on the parent-child interactions centered on using the materials.

*Engagement with books.* Seventeen mothers (8 AA, 9 PR) identified book-reading as a literacy event that occurred in the home. Fifteen mothers (7 AA, 8 PR) indicated that they read
books to their children, with ten mothers (5 AA, 5 PR) reading at least several times a week to their children. Eight of these mothers (4 AA, 4 PR) described the various styles they used when book-reading. For instance, two mothers (1 AA, 1 PR) described how they focused on the print in the book, such as spelling out words or cueing children to look at print, when they read. One African-American mother explained how she used book-reading as an opportunity to practice letter sounds and decoding via physically referencing the printed text for her child:

> When we have a book I always take my finger and go across the page and they’ll add. Like my little son will say, he knows you know the majority of basic words and stuff, he’ll say, what’s this or what’s that as we go across the page. And I’ll explain it to him and he sits there and spells the letters out and how’s it sound.

Four mothers (2 AA, 2 PR) used interactive reading strategies that supported children’s comprehension, such as asking questions about the story or elements of the illustrations. For instance, one Puerto Rican mother said:

> I’ll pick up the book, and I’ll be like... ‘What do you see on the picture?’ … like if The Three Pigs. I say ‘so what happens with the three pigs? Have you ever heard the story of the three pigs?’ And they’ll [children] be like, ‘oh yeah, yeah and the fox tries to eat them.’”

Two mothers (1 AA, 1 PR) described singing or acting out the actions in the story as a way to engage their children. One Puerto Rican mother said: “I would make the book like into a song or something, and like take a paragraph at a time. And we’d sing it.” An African-American mother stated: “We sit down and I read it. And if something exciting happens I act, I jump up and the way the book tells it, that’s how I act with him.”

Book-reading was not an activity that exclusively occurred during mother-child interactions. Six mothers (2 AA, 4 PR) indicated that other adults, such as fathers/partners and grandparents, read books with the children. Additionally, children had independent access to books. Twelve mothers (6 AA, 6 PR) described how their children looked at books on their own and often retold the story to their mothers. One Puerto Rican mother stated, “He loves looking at books. He
makes up his own stories and stuff like that.” Six mothers (4 AA, 2 PR) stated that their children also read books with their school-aged siblings.

*Focus on print: Learning letters and writing.* All mothers described their educational goals for their children as a focus on the alphabet and/or writing their names. Mothers wanted their children to learn letter names and sounds. For instance, one Puerto Rican mother talked about teaching her child the names of letters: “Like she has markers with the letters on them. That's another game of hers. Like, I'll stamp it, and I'll be like 'What's that letter?'”

They also discussed their children learning letters through writing, such as writing their names. As an example, one Puerto Rican mother said, “Yeah, she [daughter] loves letters and she is just starting to recognize them now by writing them.” Another African-American mother described how writing her name was a goal for her child: “She still scribbles, I try, she knows how to spell her name out but she doesn't know how to write it down. That's, I'm trying to get her to learn. She does the N, but she does it like backwards.”

*Implicit language opportunities.* All mothers described many daily experiences that are potentially rich with language learning opportunities for their children, such as, adult-child conversations (6 AA, 9 PR), playing with others (7 AA, 9 PR), chores (1 AA, 3 PR), learning two languages (0 AA, 9 PR), and watching television (9 AA, 8 PR). Yet, they rarely mentioned an explicit goal for or attention to developing their children’s language skills.

The majority of mothers reported engaging their children in conversations. In descriptions of conversations mothers had with their children, mothers showed evidence of using language facilitation strategies (e.g., asking open-ended questions, following child’s lead) but did not explicitly discuss how they support their child’s language development. For instance, one African-American mother described a conversation in which she used an open-ended follow-up
question to encourage her daughter to elaborate: “She’ll sit down and she’ll have a conversation with you. She’ll say ‘Mom…. I ate French fries and hot dogs and chips and ice cream and I was playing with Brownie and I was watching the movie.’ [Mother responds] ‘What movie were you watching?’ [Child response] ‘Uh, we was watching Cartoon Network.'”

However, one African-American mother did discuss how having conversations with her child facilitated her child’s language development. The mother mentioned how she made an intentional effort to teach her child vocabulary, as exemplified by the following quote:

And I'm trying to think, she hears the words, but who's to say that they really remember, not unless you sit down and you tell them, for them to remember. You know, repeating and repeating for them to remember, over and over until you know it by heart.

This same mother also described how her child watched her speak during conversations and mimicked the mother’s speech:

Because you're saying it and she's watching you…she was really paying attention to the mouth, how you would say your consonants and vowels and certain words, how they come together and how it comes out you know.

Another frequently occurring activity that has the potential to build language was children’s play-time with others (e.g., siblings, cousins, friends). One illustrative example is a Puerto Rican mother describing how her daughter engages in imaginative play with her brother: “And he has the My Buddy doll and she has the female. So they play together, he plays like he’s the father and she plays the mother and they play together a lot.” One can infer from this description that a conversation is occurring between the children, but it is not described as a learning opportunity.

For nine of the ten Puerto Rican mothers, children’s exposure to both Spanish and English was a natural occurrence in the context of their daily lives. This was a home language opportunity unique to the Puerto Rican families. Mothers generally discussed the benefit of
learning two languages, but they also pointed out the challenges in teaching their children two languages. For instance, one mother stated her belief that being bilingual is advantageous for her children but that her son was not showing an interest in learning Spanish: “He repeats stuff [in Spanish], but I don’t think is really interested in learning it…but I’m trying to teach him, because I do want my kids to know both. I think it will be good for them.” Two mothers implied, but did not directly state, that bilingual language experiences may influence children’s language development. For instance, one mother said: “We do speak two languages here and sometimes the kids [that] know a second language they get confused.” Another mother described how her daughter was frustrated when the mother read to her in Spanish: “And it's hard for her [daughter] cause she's like, like, ‘What are we looking at?’”

Four mothers (1 AA, 3 PR) also described how they interacted with children during chore-time, including cleaning, cooking, and helping with younger siblings. For example, one Puerto Rican mother stated, “She likes helping me around, she likes to imitate me when I’m moping she wants to mop, if I’m sweeping she wants to sweep, if I’m doing the wash she wants to do the same thing.’ It is likely that the mother is providing verbal instruction to her daughter at these times to help sequence and guide her participation. As a result, these types of interactions may be an opportunity for language learning, but mothers do not describe them as such.

Watching television was a frequent activity for the children (9 AA, 8 PR). Though the majority of mothers reported that their children watched television on a daily basis. Some mothers specifically mentioned television programs designed to be educational, such as Blue’s Clues, as part of their children’s routines. When adults and children discuss the television shows the child is watching, this can become an opportunity for language development. However, few mothers reported having conversations with children about television shows, and no mothers
specifically mentioned these conversations as learning opportunities. One African-American mother clearly described an example of teaching her child advanced vocabulary during joint television-watching but made no explicit acknowledgement that this was a language learning experience for her child:

She pretty much, she loves all the educational programs, that I can possibly think of that I can remember... And she’ll sit there and she’ll watch this and go, Mommy what’s that? That’s a Mummy, ain’t mom? You know, cause I told her what a mummy was, you know, when they had it on before, and they showed mummified of a Pharaoh and and uh, pharaoh’s son and all that, I showed her when it was on TV I said, that’s called a mummy. ‘She’s like O.K., you know, and she’s looking and she’s learning. You know, all these different things.

In this example, the child’s interest in television programming prompted a conversation with her mother about pharaohs and mummies, a topic that may not have appeared in their everyday, routine interactions but clearly includes advanced vocabulary.

Focus on other pre-academic skills. In addition to focusing on literacy, 17 mothers (8 AA, 9 PR) also explicitly mentioned goals for their children to gain other pre-academic skills, such as knowledge of numbers and shapes. A focus on pre-academic skills supports children’s school readiness by teaching concepts as well as promoting academic language. One African-American mother described focusing on counting: “She [daughter] be in kindergarten next year. And I'm working on all her skills. She need to learn her name, her numbers, at least I'd say at least one through twenty. Even though I might want to try to go further.” A Puerto Rican mother described a focus on shapes: “When I sit down with her I try to help her out with the shapes...to let her know what a shape is, if I have the time. What a square is, a rectangle you know a circle. She knows a couple of those she knows a heart, she knows a star stuff like that.”

Additionally, 14 mothers (7 AA, 7 PR) endorsed their child’s interests in coloring/drawing- an activity that promotes fine motor skills, is a precursor to writing, and encourages
creativity. A Puerto Rican mother talked positively about her child’s interest in drawing: “And she likes to draw a lot. Little things, but we appreciate it, you know. And we [say] ‘this is nice.’ And she gets happy, you know. I like that.”

Similarities and differences for practices. Similarities were most evident in the practices of African-American and Puerto Rican mothers. The only difference noted between African-American and Puerto Rican mothers emerged for implicit language opportunities. Specifically, Puerto Rican mothers were the only group to describe children’s dual language experiences, and children participating in chores at home was almost unique to Puerto Rican mothers.

Research question 2: Parental beliefs about how children learn to read

The second research question focused on parental beliefs about how children learn to read. One theme emerged. Sixteen mothers (7 AA, 9 PR) indicated children learn to read through social interactions that centered on books. While no mothers described the developmental progression of how children learn to read, some mothers discussed practices that supported literacy development. Yet, these practices differed in the degree to which they supported developmentally appropriate skills for preschool children.

Eight mothers (3 AA, 5 PR) mentioned how children learn to read through adults or older siblings reading to young children but expressed they did not know how joint-book reading led to later independent reading. For instance, one African-American mother stated, “I guess they learn from I don’t know, seeing others [read]. Or hearing [stories]... I don’t know, I guess they just catch on.”

Eight (4 AA, 4 PR) parents responded more specifically by describing or implying the use of strategies to teach children to read during joint book-reading activities. Two mothers described how they support their children’s comprehension of stories through focusing on the
pictures (2 mothers: 1 AA, 1 PR), which is in alignment with early literacy development. For instance, an African-American mother explained that children learn to read by looking at pictures in books and creating their own story.

They learn how to read, they learn how to read by picking up the book and it has colorful pictures in there, lot of different things in there and they will picture read instead of actual words… You know, so, she’ll pick it up and says, ‘well, the little boys on the bike and Kathy’s over here knocking at the door, look at that house. Mommy, see the bear running in the woods.’ She make this all up in her mind. You know, so I call that picture reading. You know, she’s picture reading what’s actually there but she’s adding more characters.

Other mothers described practices that are geared to older children, such as learning sight words (3 mothers: 2 AA, 1 PR) and decoding (5 mothers: 2 AA, 3 PR). For example, one Puerto Rican mother’s response implied a focus on learning sight words:

I feel, though, that the way to learn how to read is open the book. The book’s saying the red fox, you point. ‘The red fox’. And you have them sitting there. And have them use their fingers as an index. And they’ll learn by themselves. And they’ll learn how to read.

**Similarities and differences for reading beliefs.** No differences were noted between African-American and Puerto Rican mothers in their beliefs on how children learn to read.

**Research question 3: Factors that influence parents’ beliefs and practices**

Six themes emerged about factors that influence home language and literacy practices and beliefs. These factors were influence of school, influence of other adults, parent’s reading interest/ability, children’s reading interest, parent’s commitment to children’s academic and life success, and family stressors.

**Influence of school.** Seventeen mothers (9 AA, 8 PR) discussed how interactions with the educational system shaped their home literacy practices and beliefs. The influence of school was dual-pronged: (a) influence of Head Start personnel (9 AA, 7 PR); and (b) influence of school-age older siblings or cousins (6 AA, 7 PR).
In regard to the influence of their children’s Head Start personnel (i.e., teachers and home visitors), mothers indicated that they were provided general guidance about the importance of reading as well as specific strategies to use when reading with their children. For example, one Puerto Rican mother described how her Head Start home visitor provided specific advice on how to do a picture walk when reading to her child:

And they showed me a couple of ways to, a do with her like, when you open the [book], you know what I mean. Tell her what does she sees on the front of the cover. She’ll tell you, oh, a bear and trees ...you understand? So, she knows more than what’s the story about... And I’ll start asking her, I mean, ‘What do you see in this picture?’ and she’ll start explaining to me. And then we’ll go through the whole entire book and then we start the reading.

Mothers also described how the literacy activities that their children did at Head Start were incorporated into home activities. For example, one African-American mother said:

She [daughter] learn most stuff in school and then I’ll just go over it with her at home...Like she has a strip with her name on it and the letters from it, she knows how to put the K with the E, she knows how to put them there. You know, I just go over it with her at home.

The influence of school-age siblings or cousins was also routinely discussed. Two main ideas emerged regarding the influence of older children. First, parents described how older children served as a positive model and/or a teacher for their younger preschool-aged sibling. As an example to illustrate how siblings serve as positive models and spark younger siblings’ academic interest, one Puerto Rican mother said,

Her brother is in kindergarten and whenever he brings something from school, she's very interested. As a matter of fact, when he walks in through the door the first thing she does is grab his bag, because she know he's always bringing stuff from school. She's excited about what he had done.

In addition to mothers describing how older children sometimes read to younger children (as noted in engagement with books), older children also helped them with other literacy tasks. For instance, one African-American mother said, “She [older daughter] trying to teach him [preschool son] how to spell certain things and little things, like ‘cat’ and ‘dog’.” Writing,
spelling, and decoding were all mentioned as ways that older children supported the literacy skills of the preschool-aged child.

Second, parents expressed a shift in their home literacy beliefs and practices with their younger children as a result of the experiences they had with their older children moving through the U.S. educational system. For example, one Puerto Rican mother talked about sending her younger children to Head Start after seeing her older children struggle in kindergarten.

Once they [older children] hit kindergarten, there were so many things that kids knew when they were in Head Start and mine didn’t. It didn’t take them a long time to learn, because I just kept working with them. But I was gosh it was a mistake, I should really let them go to Head Start. The teacher would tell me they’re participating fine, you know I would go and participate in class, because I had the time and I was like wow these kids really know a lot. Head Start really helped them out. So as I had my other, my 6 year old son and her and her and the next couple of kids I had I said they’re going to Head Start.

This mother’s observation of her older children’s academic difficulties as compared to the success achieved by her younger children attending Head Start secured her decision to enroll her subsequent children in the preschool program.

*Influence of other adults.* Sixteen (9 AA, 7 PR) mothers discussed the influence of other adults on their beliefs and practices. The individuals named by mothers as exerting important influences on their beliefs and practices included their husbands/partners, mothers (children’s grandmothers), siblings (children’s aunts), cousins, friends, and pediatricians. The influence was often weighted toward their provision of materials to families. For instance, one African-American mother described how her sister and mother bought books which resulted in increased mother-child shared reading interactions: “So, my sister used to order books, my mom used to order books. And I couldn’t help but to read ‘em, you know.”
Some mothers described the advice that others had given them. Typically, this advice centered on the general importance of reading. One African-American mother said, “My cousin was like you better start reading to that boy. So I’ve been reading to him for a long time.”

Parents’ reading interest and ability. Sixteen mothers (7 AA, 9 PR) described how their own reading interest and ability was positively or negatively associated with home literacy practices. Twelve mothers (7 AA, 5 PR) expressed great personal enjoyment in reading books. One African-American mother said, “I would just sit there and I would eat a whole pack of fig newtons and read a book...No music, no TV, no nothing, just me and a book. That's how I am.” Mothers described how their own reading interest was supported in childhood through their schooling experiences as well as by their parents. Based on the interview data, it is not possible to draw any conclusions on whether mothers who personally enjoyed reading engaged in more frequent or higher quality shared book-reading interactions with their children. However, it is noteworthy that mothers who enjoyed reading recognized that an interest in texts is motivating. For instance, one African-American mother described how reading interest influenced her home literacy practices with her children: “It's better for [me] to read...something that interest them. You know what I mean...when I read a lot of times it's because it interest me.”

Yet, mothers’ reading interest and ability could also negatively influence their practices (0 AA, 4 PR). For instance, one Puerto Rican mother’s documented limited reading ability resulted in infrequent reading with her children: “And I read them [children] books once in a while. I’m not a very good reader...So I really try not to go there a lot. I never been good at reading. But sometimes I do read to them. But I don’t do it to them a lot.”

Children’s reading interest. Seventeen mothers (7 AA, 10 PR) expressed how their preschool child’s interest in reading also positively and negatively affected the home literacy
experiences. For instance, a Puerto Rican mother described how her child’s interest in reading resulted in more frequent reading interactions: “She brings like four or five, six different books at a time. I’m like, ‘You gotta slow down’. She’s like, ‘Momma, it’s that I like it.’”

In regard to children’s lack of reading interest, several mothers indicated a focus on improving their children’s interest in order to continue literacy activities. For instance, one African-American mother described her challenges with engaging her child in academic activities and how she tried to balance the academics with other activities the child enjoyed:

I can only work on actual, like me helping him do things for about a half hour, maybe 20 minutes. We, and we don’t do like the same page, he’ll flip through it and do like one of the one part and then one of the other part…Then he likes to just color, or look at the other stuff or start the craft project. So about an hour total I try and stay on it. But it’s hard because he wants to get up and he wants to do other things but sort of like I let him like get up and like jump and clap in between things.

Yet, other mothers described their children’s lack of interest as a barrier, which led them to decrease their home literacy activities. One African-American mother said,

I was doing it [reading] on my own and then um he wasn’t paying attention and stuff, I thought why should I sit down, he kept looking at everything. I would turn off the TV and everything and he would be like ignoring me and stuff and it’s like why should I.

The majority of mothers had more than one child, and mothers expressed that one child may really enjoy reading whereas another child did not. Also, mothers recognized that an individual child’s interest would vary depending on the context or the type of books selected.

Parent commitment to child’s academic and life success. Eighteen mothers (8 AA, 10 PR) described their commitment to their children’s academic as well as life success in terms of short-term and long-term paths. Fifteen mothers (6 AA, 9 PR) discussed their immediate focus on ensuring their children’s current academic success through working on homework, investing in academically-related materials (as previously mentioned), and involving themselves in Head
Start volunteer activities. For example, one African-American mother described the importance she placed on her involvement at the Head Start:

Cuz I want to be a dedicated parent with them down at the school, too. I used to love to go to parent meeting and you know, I’d be right there in there trying to find out what is our weakness, what is our, you know, our strength.

In the following quote, a Puerto Rican mother described her commitment to her children’s academic trajectory but also acknowledged the barriers that impede parental engagement by saying:

Well, I just feel that some families don't really have an interest in reading. Maybe they weren't brought up to, I mean maybe they didn't have that in their home, you know, reading. And some parents overwork or they work too hard and they're very tired and they don't have time, you know, for reading. I take an interest in it with my children and I want them to do well in school so try to read to them and do the best that I can, with what I know, with what I've learned growing up.

Fourteen mothers (6 AA, 8 PR) also described long-term academic and life goals for their children. In the following quote, a Puerto Rican mother conveyed the value of education to her children by explaining that staying in school will allow them to achieve their career aspirations. She also made important educational milestones, such as high school and college graduation, seem attainable by showing her children her own diplomas:

He [son] is always saying he wants to be a cop, a police officer. So you know, I give him the courage. I be like, ‘Yes, you know, but for you to do this you have to go through school. You need an education, that’s a must.’ I always tell them, I got my graduation…I showed them my graduation. I got two diplomas…I say ‘This really gets you somewhere. You really need a high school diploma and you need an education so you can get to where you want. You really have to try. I’m not going to be always around.’

Approximately one-third of mothers did not attain a high school diploma, a decision that was often related to teenage pregnancy. Even in these circumstances, some mothers wanted to remain in school but described a lack of support (from home and/or school) such that they believed they had no other option than quitting school. As a result, the mothers reported struggling with
employment and finances. They viewed completing schooling as the fundamental way that their children could avoid facing the same struggles.

*Family stressors.* Thirteen mothers (6 AA, 7 PR) mentioned significant life stressors, such as moving, incarceration, health concerns, and long or challenging work schedules. These stressors impacted the interactions mothers had with their children. For instance, one African-American mother discussed how her history of physical abuse influenced her parenting:

I don’t have patience. You can just work me so much. That’s with my kids, anybody’s kids, any person period. I just don’t have, I have very low tolerance. I’ve been through a lot of abuse, for one thing. And I just really can’t take a lot. Really really can’t take a lot…You know, yeah, so it’s like I’m just really trying to, I guess heal or get better, or whatever.

Another African-American mother described how her work schedule impeded her ability to engage in activities with her children:

It’s just that I work 4 to 12, where do I even get a little bit of time to sit with my son…when he comes home from school, I’m at work, you know. By the time I come home, he’s in bed. So, where’s my time to see him, except when I get up in the morning. You know, I’m not focused, I’m still tired from working all week long, you know, and trying to do all this stuff.

Mothers often discussed how living conditions negatively impacted their home literacy practices. Several mothers mentioned that books and other materials were in storage because their current housing was too cramped for many of the family belongings. As another example, one Puerto Rican mother described how an upcoming move prevented her from taking her child to the library: “They told me I could take him to the library and get a library card for him, I didn't know that until now, but why should I get it now if I'm leaving.”

Given that almost all mothers reported commitment to their children’s success, family stressors acted as a limiting factor in their ability to engage in their child’s education as fully as they desired.
Similarities and differences for influential factors. Similarities between African-American and Puerto Rican mothers were largely evident in the influential factors on parents’ beliefs and practices. Only one difference was noted between African-American and Puerto Rican mothers. Specifically, only Puerto Rican mothers described their limited reading interest/ability as a reason for infrequent literacy activities with their children.

Discussion

Given the growing diversity in the U.S., the purpose of the study was to gain a more nuanced perspective of the home language and literacy environment of low-income and racially/ethnic minority families in the U.S. Synthesizing the results about practices, beliefs and influences, we highlight three overarching findings that inform intervention development. First, families implemented a variety of practices, including both formal and informal language and literacy interactions, to support children’s educational success, but mothers showed little explicit understanding of why these practices are important. Second, mothers indicated that their beliefs and practices are influenced by numerous factors. Third, few differences emerged between African-American and Puerto Rican mothers.

HLE beliefs and practices

Mothers reported commitment to their children’s educational success through provision of educational materials, shared book-reading (i.e., informal HLE dimension), and direct teaching about the alphabet and other pre-academic skills (i.e., formal HLE dimension). Mothers’ reported engagement with children to support their school readiness is impressive given the difficult life circumstances of these mothers who lived in poverty (for a more detailed discussion of mothers’ lives, see Hammer, 2014). It is encouraging to note the regular report of these home literacy practices given their positive contribution to children’s language and literacy
development (e.g., Aram & Levin, 2002; Aikens & Barbarin, 2008; Farver, Xu, Eppe, & Lonigan, 2006; PIRLS, 2007; Raikes et al., 2006; Sènèchal & LeFevre, 2002). Our findings align with previous research on the frequency and type of home literacy practices implemented by low-income mothers of preschool and young school-age children (e.g., Goldenberg et al., 1992; Purcell-Gates, 1996; Raikes et al., 2006; Reese & Gallimore, 2000; Reese et al., 1995; Reese et al, 2012). Thus, these mothers seem attuned to the popular message about the importance of early literacy development that is espoused by U.S. schools and media. In fact, mothers reported that Head Start personnel did advise parents to read with their children, which influenced their book-reading practices.

Despite regular engagement in home literacy practices, mothers showed little explicit understanding of early literacy development and how children learn to read, such as understanding that children should have a solid foundation of alphabetic knowledge prior to being able to decode words. Although some mothers were fairly forthright that they were unsure how joint book reading supports children’s learning to read, other mothers described specific strategies that they use to teach children to read. A focus on specific strategies communicates mothers’ practical understanding of literacy development. For instance, several mothers described using book-reading strategies found in print-referencing (i.e., physically pointing out words while reading) and dialogic reading (i.e., actively engaging children in discussing the story) that are associated with preschool children’s improved language and literacy skills (e.g., Justice & Ezell, 2000; Whitehurst et al., 1994). Yet, many mothers described strategies that were more appropriate for older children (e.g., decoding, sight words) and not developmentally appropriate for preschool children.
The focus on more advanced skills is likely due to remembrances of how mothers personally learned to read in formal schooling or due to formal schooling experiences with older children, as has been shown in the literature to be influential to mothers’ practices (Paratore et al., 2003; Reese et al., 2012; Teale, 1986). Interventionists working with families should communicate to parents which practices are developmentally appropriate and provide brief simple explanations to parents about why these practices are recommended (e.g., pointing to words while reading supports children’s understanding of what a word is). When parents have a better understanding of developmentally appropriate practices, they may be more likely to make these practices a priority during their busy and stressful days. This may be especially true for this sample of mothers given how committed they were to their children’s academic success.

The relation between oral language and children’s later reading success is well established (e.g., Catts, Fey, Tomblin & Zhang, 2002; NICHD Early Child Care Research Network, 2005). Mothers’ responses suggested scant attention to children’s language development. For instance, even when mothers’ described the potential rich language-learning opportunities of children (e.g., conversations, playing with others), mothers never revealed an awareness that these activities can support their children’s language development. This is consistent with previous research findings that low-income families in the U.S. often use language as a practical tool to communicate with one another versus a tool to promote children’s language development (Heath, 1983; Lareau, 2011). In sum, our findings indicated that more emphasis should be placed on educating parents about the importance of language development and how to support it. Interventionists can build on parents’ commitment to reading by explaining to parents how to promote children’s vocabulary development during adult-child shared book-reading. Additionally, parents can be educated on how to facilitate language during
their daily interactions, such as purposefully engaging the child in conversations, following the child’s lead, and using advanced vocabulary (e.g., Mahoney & Powell, 1988; McDuffie & Yoder, 2010). Parents can be taught to use these strategies during naturally-occurring home practices reported by the mothers in this study, including watching television, playing, and completing chores with their children. As such, interventionists are fostering a strengths-based approach to enhancing the home literacy environment.

Influential factors

Findings indicate that mothers’ beliefs and practices were influenced by a variety of factors, including school, other adults, parents’ personal reading interest and children’s reading interest. Identification of these influences align with previous research with families of preschool and kindergarten families (Bus et al., 2000; Goldenberg et al., 1992; Hammer et al., 2005; Neuman, 1996; Perry et al., 2008; Reese & Gallimore, 2000; Reese et al., 1995; Reese et al., 2012). Knowing that mothers are receptive to outside influences, especially educators, is encouraging to interventionists. Mothers reported adopting practices that are recommended by educators and other professionals, indicating that mothers are open to learning new information about how to support their children’s development.

These findings also provide direction to interventionists about what mothers prioritize and where they need support. As stated previously, mothers’ own schooling experiences and their memories of how they learned to read in school influenced the reported practices they were using with their preschool children, often resulting in non-developmentally appropriate practices. As another example, mothers were very attuned to their children’s reading interest. Some mothers reported using strategies, such as shortening the length of the activity, to increase their child’s engagement. Yet, some mothers indicated that they stopped initiating literacy activities
with their children. This suggests that mothers may need support in how to gain and sustain their young children’s interest. Such strategies could include selecting materials that are of high interest to the child, embedding movement into activities, and mindfully selecting the location (e.g., away from distractions, such as the television) and duration (i.e., developmentally appropriate length of time for the child) for the activity (e.g., Milbourne & Campbell, 2007). Additionally, because older siblings are clearly significant models, components of interventions could include opportunities for older siblings to motivate and play an active role in promoting younger children’s language and literacy development. Engaging older siblings is often viewed as a culturally-sensitive strategy for families from backgrounds in which all family members are responsible for caring for younger children.

It is important to also be aware that not all adults have the same level of literacy proficiency or interest, which influences their HLE practices. Other researchers have documented this relation (Bus et al., 2000; Neuman, 1996; Reese et al., 2012). One mother in this study revealed that she was not “a good reader” (i.e., difficulty decoding) and that was why she did not read to her child. In this case, interventionists may limit the degree of reading required, such as having a focus on story-telling rather than storybook-reading. For instance, adults and children could tell stories from wordless picture books or have adults and children co-create their own books (Boyce et al., 2004). Alternatively, as stated previously, more literate older siblings could serve as the teacher to younger children. Also, approaches that include a focus on adult literacy may be appropriate.

Comparison of African-American and Puerto Rican mothers

Another aim of the study was to examine the similarities and differences between African-American and Puerto Rican mothers. Overall, similarities were predominant, with minor
differences emerging between African-American and Puerto Rican mothers, specifically on the topics of implicit language opportunities (i.e., bilingual language opportunities, participating in chores) and the negative influence of parents’ reading ability. Although extant research is limited and inconsistent, the finding that the themes were largely similar for both African-American and Puerto Rican mothers was not totally unexpected. For instance, Teale (1986) found that race did not predict the frequencies or type of practices, and he concluded “cultural practices are not merely the product of one’s race” (p. 195). Socio-economic status (SES) is likely more salient than race. Lareau (2011) found that SES, not race, was associated with parental practices. Other researchers have described differences in the home literacy practices of Latino families attributable to higher and lower SES (Paratore et al., 2003; Reese et al., 2012). The difficult circumstances associated with living in or near poverty enact a powerful influence on parenting (e.g., Foster et al., 2005).

A limitation of this sample was that all children participated in the same preschool program. Foster et al (2005) found significant differences in HLE practices between families whose children were and were not enrolled in early educational programming. Thus, it may be that parents, regardless of ethnic/racial status, who send their children to Head Start are more likely to have similar perspectives about HLE. Also, as indicated in our findings, Head Start educators influenced the HLE. Thus, it may be that the HLE of African-American and Puerto Rican mothers exhibited more differences prior to their children’s enrollment in Head Start but over time became more similar in their perspectives as a result of Head Start participation.

Although few in number, two differences did emerge which are important for interventionists to consider. First, the most obvious is the language spoken in the home. All but one of the Puerto Rican mothers in this sample spoke Spanish to their children. Parents should be
encouraged to speak their home language during literacy activities with their children. For Spanish-English dual language learners in the U.S., children’s exposure to and usage of Spanish are significant predictors of children’s language outcomes in both Spanish and English (Hammer, Komaroff, Rodríguez, Scarpino, & Goldstein, 2012). Additionally, children’s growth in Spanish skills is associated with later reading ability in school (Davison, Hammer, & Lawrence, 2011; Hammer, Lawrence, & Miccio, 2007). Second, it is also noteworthy that participation in chores was predominantly identified as a regular mother-child routine by Puerto Rican mothers. A pivotal recommended practice in family-centered care is working with families to identify typical family routines to embed developmentally-appropriate practices (DEC, 2014). Thus, interventionists should collaboratively discuss with families what their goals are for their children and determine how practices can be more easily integrated into families’ routines.

Limitations and Future directions

Several limitations require mention. First, as noted above, participants all had children enrolled in Head Start, and as such, findings may lack generalizability to parents who do not enroll their children in early childhood education (ECE) programs. Future research should include parents whose children are not enrolled in ECE programs. Second, interview data (i.e., parent self-report) served as the sole source of data. It may be that mothers were susceptible to social desirability bias, which certainly could influence the findings presented. However, given the qualitative nature of the study, this assumes that mothers had a sufficient understanding of desirable behaviors and beliefs to articulate them when asked open-ended questions. In fact, many mothers described practices, beliefs and factors that paint them in a less than flattering light (e.g., only half of the mothers indicated they read with their children several times a week).
Future research should use a variety of additional data sources, including observations, in addition to interviews in order to provide a comprehensive qualitative examination of the HLE.

Third, we only examined similarities and differences through the lens of race/ethnicity. Race/ethnicity is only one component of culture; culture is a complex construct comprised of race/ethnicity, language, socio-economic status, religion, gender, sexual orientation, age, and ability (National Association of Multicultural Education, 2014). Future directions for further U.S. and international research include a broadened lens of cultural influence. Although our mothers differed in regard to race/ethnicity, they were similar in other respects. The Puerto Rican mothers were all proficient in English. Additionally, Puerto Rican mothers are U.S. citizens and thus may have many similar educational and other experiences as the African-American mothers. Future studies should investigate the HLE beliefs and practices of mothers who are less/not proficient in the mainstream language, are more/less acculturated, and/or from different countries of origin.
References


Davison MD, Hammer CS, and Lawrence FR (2011) Associations between Preschool Language and First Grade Reading Outcomes in Bilingual Children. *Journal of Communication Disorders* 44: 444-458.


Manz PH, Hughes C, Barnabas E, Bracaliello C, and Ginsburg-Block M (2010) A descriptive review and meta-analysis of family-based emergent literacy interventions: To what extent is the research applicable to low-income, ethnic-minority or linguistically-diverse young


DOI:10.1016/j.ecresq.2004.10.007


---

**Table 1**

*Themes and Codes*

<table>
<thead>
<tr>
<th>Theme</th>
<th>Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>RQ1: Children’s home language and literacy experiences</td>
<td>Educational materials/toys; having books; going to the library</td>
</tr>
<tr>
<td>Engagement with books</td>
<td>Engagement with books</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Focus on print: letters and writing</td>
<td>Conventional literacy; emergent literacy; writing</td>
</tr>
<tr>
<td>Implicit language opportunities*</td>
<td>Television; playing with others; conversations; using 2 languages*; participating in chores*</td>
</tr>
<tr>
<td>Focus on other pre-academic skills</td>
<td>Coloring/drawing; other pre-academic skills</td>
</tr>
</tbody>
</table>

**RQ2: Parent beliefs about how children learn to read**

| Social interactions with books | Engagement with books |

**RQ3: Factors that influence parents’ beliefs and practices**

<table>
<thead>
<tr>
<th>Influence of school</th>
<th>Influence of Head Start teachers/personnel; Influence of siblings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influence of other adults</td>
<td>Influence of family; outside supports</td>
</tr>
<tr>
<td>Parent reading interest/ability*</td>
<td>Parent childhood experiences; parent reading interest*; parent temperament/ability*</td>
</tr>
<tr>
<td>Child reading interest</td>
<td>Child reading interest/temperament</td>
</tr>
<tr>
<td>Commitment to child’s academic &amp; life success</td>
<td>Parent commitment; Parent engagement</td>
</tr>
<tr>
<td>Family stressors</td>
<td>Family stressors</td>
</tr>
</tbody>
</table>

Note: * denotes difference found between African-American and Puerto Rican mothers.