A qualitative study conducted in the USA exploring Latino fathers’ beliefs, attitudes and practices related to their young children’s eating, physical activity and sedentary behaviours

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INTRODUCTION

Latinos and Hispanics (hereafter referred to as Latinos) are the largest and most rapidly growing population group in the United States and children in low-income Latino families have an elevated risk of becoming overweight or obese. Recent statistics show that almost 17% of Latino preschool children are classified as being obese compared to 11% of Black, 4% of White, and 3% of Asian children. As a result, childhood obesity among Latinos is a pressing public health concern as childhood weight status tracks into adulthood and increases risk of other obesity-related chronic diseases.

Establishing healthy eating and physical activity (PA) habits early in life is important for preventing obesity and related co-morbidities in childhood and beyond. Multiple behavioral risk factors such as unhealthy eating habits (e.g., consumption of calorie-dense, nutrient-poor food), low physical activity levels and increased sedentary behaviors have been linked to disparities in childhood obesity among Latino children. Parents are key players in determining their children’s weight status through the home environment they create for eating, PA and sedentary behaviors (SB). Furthermore, parents shape their children's eating, PA, and SB through their knowledge of nutrition; influence over food selection, meal structure and home eating patterns; modeling of eating, PA, and SB, including television-viewing and
Due to parental influences on their children’s eating and PA practices—and thus in preventing obesity, they should be central to collective efforts to end the childhood obesity epidemic.\(^4,5,12\)

To date research examining parental influences on children’s healthy eating, PA, and SB has primarily focused on mother-child interactions.\(^3, 6-11,13-20\) This research documents the critical influence of mothers’ beliefs, attitudes, parenting styles, and practices on children’s eating, PA, SB, and weight status.\(^10,11,13-20\) Although, in most cultures, mothers still spend more time caring for their children, fathers’ involvement in childcare has increased over the past decades, especially in high-income countries.\(^21-25\) This increase may be due to changes in the labor market, increased participation of women in the labor force, and changes in family roles and dynamics.\(^23,26\)

Recent reviews point to the limited representation of fathers on parenting and childhood obesity research.\(^27-30\) Despite the increasing number of studies examining fathers’ food parenting practices,\(^31-35\) available research assessing the influence of parenting styles and practices on children’s eating among Latino fathers is limited.\(^36-40\) Nonetheless, these studies underscore father’s influential role on children’s eating.\(^36-40\) This small body of research indicates the need for further research, but also suggests that Latino fathers be included in nutrition interventions designed to reduce
and prevent child obesity. Similarly, a growing research literature documents the influential role of fathers on children’s PA and SB, but the majority of this research has focused on Caucasian, middle-income fathers with limited research examining Latino fathers’ beliefs, attitudes and practices related to young children’s PA and SB. Results of a recent review that included 13 studies examining home environmental influences on childhood obesity among Latino children (2-17 years) revealed that Latino children spend more time using media (e.g., watching television (TV), playing video games) and have fewer limitations placed on them by their parents regarding the use of media than White or Black children and that this lack of limits was associated with increased inactivity and child weight gain. The majority of studies included in this review were comprised primarily of Latina mothers, highlighting the need for additional studies to include Latino fathers. Identifying and understanding potentially modifiable factors associated with increased risk of child obesity among minority, low-income children, such as Latinos, is critical to collective efforts to prevent and control childhood obesity. Given limited but increasing evidence of the influential role of fathers in their children’s development of eating, PA, and SB, the purpose of the present study was to expand on the current existing research and examine Latino fathers’ beliefs, attitudes and practices related to
methods research study designed to assess parenting styles and practices related to eating, PA, and SB associated with risk of childhood obesity that is being conducted with Latino families living in the state of Rhode Island (RI).42 We used a purposive sampling method to recruit participants from Special Supplemental Nutrition Program for Women, Infants and Children (WIC) clinics and community-based programs and agencies serving predominantly Latino populations in RI. Clinics and community-based programs and agencies were contacted by a Research Coordinator who explained the purpose of the research and asked the sites to participate in recruitment efforts. Sites agreeing to participate were mailed study flyers in Spanish and English that included a phone number for interested participants to call. Flyers were posted at agencies between June and October 2016. Individuals who contacted the research coordinator were screened for study eligibility. Fathers were eligible to participate if they self-identified as being of Hispanic ethnicity; were 21 years of age or older; had lived in the U.S. for at least 12 months; had at least one child between 2 and 8 years of age, who was enrolled or eligible for the WIC program; and had shared parental responsibilities for
or cohabitated with said child. Initial eligibility included being a parent of at least one child between 2-5 years of age, which is the age group eligible for the WIC program. However, to recruit a sufficient number of fathers, we extended age limit to 8 years of age, given that most eligible families had children of multiple ages.

We chose to conduct focus group discussions (FGDs) because they are an important technique for conducting research in diverse cultural settings, and provide valuable information. Moreover, the synergistic effects of group settings elicit ideas and discussion that may not arise in individual interviews. Ethics approval was obtained from the University of Massachusetts Boston Ethics Board (IRB# 2013060).

**Data Collection**

We conducted seven FGDs with Latino fathers at local public libraries and community agencies between August and October 2016. Each FGD had three to five participants. All FGDs were conducted in Spanish, and moderated by a bilingual native Spanish-speaker, trained in qualitative research methods, using a semi-structured discussion guide that explored fathers’ definitions of healthy eating and active living; beliefs and attitudes related to healthy eating, PA, and SB of young children; practices related to eating, PA, and SB; and perceptions of barriers to children’s healthy eating and PA (Table 1). The FGD
guide was piloted-tested in a FGD with Latino fathers not included in this study and refined prior to use.

Before each FGD, the moderator explained the study’s purpose and procedures, and participants provided written, informed consent. Before beginning each FGD, the moderator asked fathers to think about their youngest child (2-8 years of age) when participating in the discussion. Each audiotaped FGD lasted between 60 and 80 minutes, and a trained, bilingual (Spanish and English) research assistant took notes during each session. The moderator and research assistant convened for approximately 15 minutes after the end of each FGD to discuss new and recurring themes heard during the session, which were then added as probes to the FGD guide.

At the completion of FGD, participants received a $25 gift card for participation and completed a brief, self-administered survey that assessed participants’ socio-demographics (e.g., education, marital status, country of origin, length of time living in the U.S., etc.), and level of acculturation via the Short Acculturation Scale for Hispanics (SASH). The SASH is a 12-item measuring scale validated for use in Latino groups, such as Mexican Americans, Cuban Americans, Puerto Ricans, Dominicans, and Central and South Americans. The SASH assesses language use, media use, and ethnic social relations. An acculturation score was computed by averaging across 12 items;
measured on a scale of one to five (1=least acculturated, 5=fully acculturated). Analysis

Audio tapes were transcribed verbatim in Spanish and translated into English without identifiers. To ensure that the integrity and equivalence of the data was not lost in the process of translation, a professional transcriptionist, bilingual and native Spanish-speaker translated the transcripts using forward-backward techniques to establish semantic equivalence in translation. We analyzed transcripts using thematic analysis, an iterative process of coding the data in phases to find meaningful patterns. Analytic phases included data familiarization, generation of initial codes, searching for and review of themes and patterns, and defining and naming themes. The NVivo 11 software (QSR International Pty Ltd. Version 11, 2015) was used to assist in coding, organizing and indexing of the qualitative data. All transcripts were read and reviewed by two authors who identified and generated initial codes, concepts, and themes. Next, themes were reviewed, identified, defined, and named. Descriptive statistics and frequencies were calculated for the socio-demographic data and the Marin scale using Microsoft Excel 2008.

RESULTS

Seven FGDs with 28 Latino fathers of young children representing 28 unique families were conducted. Participants’ ages
ranged from 27 to 49 years old (mean=34.2, standard deviation (SD)=2.8). Participants had an average of two children (range: 1–4) per household, and 92.9% (n=26) cohabited full-time with their children. Approximately 71.4% (n=20) had a high school degree (50%, n=14) or general education diploma (GED) (21.4%; n=6), and 60.7% (n=17) reported an annual family income of ≤ $40,000. Nearly all (85.7%; n=24) were foreign-born, and had lived in the U.S. for an average of 14.3 years (SD=2.7). The majority (92.9%; n=26) reported speaking primarily Spanish at home, and their mean acculturation score was 2.32 (SD=0.36), indicating that they more closely identified with Latino culture, although they were close to “bicultural”. See Table 2 for additional information on the demographic characteristics of the fathers participating in the study.

Emergent themes related to fathers’ beliefs, attitudes and practices related to eating, PA, and SB of their young children are discussed below. Table 3 presents representative quotes illustrating each theme.

I. Beliefs, Attitudes and Practices Related to Healthy Eating

Fathers’ Definitions of Healthy Eating. Fathers defined healthy eating in a variety of ways, although most offered a definition that focused on the importance of eating a balanced diet that included adequate amounts of fruits, vegetables, and proteins. Fathers also
Fathers Believe Healthy Eating is Important. Across all FGDs, fathers agreed about the importance of healthy eating for one’s health and quality of life, including both adults and children. Moreover, several fathers viewed healthy eating as a lifestyle, and reported that they consistently tried to eat a variety of healthy prepared foods. A few fathers noted the importance of children developing early healthy eating habits.

Fathers Do Not Always Eat Healthy, But Are Aware of the Need for Improvement. Although there was consensus about the importance of healthy eating, some fathers spoke of the difficulties associated with this, especially given the availability and accessibility of unhealthy foods. Fathers also noted that a lack of time impacted their food choices and led them to select less healthy and more convenient options. In addition, a few fathers mentioned that it is “easy to give in to unhealthy food choices when feeling stressed out”.

Fathers’ Food Parenting Practices

Continued Effort. A few fathers spoke of their continued efforts to promote and support their children’s healthy eating. Fathers explained that the food available outside of their home is a constant “temptation”, and impacts what types of foods their
children want to eat, and “threatens” their children’s healthy eating habits.

It is Okay to Indulge and Eat Unhealthy Once in a While. A few fathers reported that it is inevitable that their children will eat foods that are unhealthy, but that they tried to keep it to a minimum and mostly to the weekends. In addition, a couple of fathers suggested allowing “unhealthy” food choices as “once-in-a-while” reward.

Eating Out. Some fathers noted that they rarely eat out, while others reported that they eat out frequently. Fathers most often went out to eat with their families on the weekends. When asked about the types of restaurants they frequent and foods ordered, fathers reported going to large chain restaurants, ethnic restaurants (e.g., Chinese, Hispanic) or out for pizza. Several fathers spoke of eating at fast-food restaurants, as it can be hard to eat out with young children.

Fathers’ Involvement with and Responsibilities for Child Feeding

Fathers Have a Traditional View of Motherhood. Most fathers who lived full-time with their children reported that their child’s mother most often decided what their children and families ate, as well as how meals were prepared. A few fathers did note that it was a joint decision about the foods served to their families. The two fathers who did not co-reside with their children reported that they
followed the lead of the mother regarding meals and child feeding. Some fathers explained that they preferred to let the mother make the decisions about child feeding as they felt mothers know how to best teach and instill healthy habits. A few fathers were more directly involved in decisions about child feeding due to the mothers’ work schedule.

**Fathers’ Perceived Barriers to Children’s Healthy Eating.**

Fathers noted several barriers to their children’s healthy eating, including parents having limited time for cooking homemade meals due to mothers working long hours and conflicting family schedules. Additionally, some fathers spoke of children being “picky eaters”, and preferring foods such as chicken nuggets to more healthy options. Some fathers noted that easy access to and availability of inexpensive unhealthy foods that appealed to children’s taste was a main influence in their children’s eating habits.

**Fathers Would like their Children’s Eating Habits to Change.**

When asked about goals for their children, several fathers noted that they wanted their child to eat more healthfully and eat less “junk” and “sugary” foods, such as candy and soda. Nonetheless, a couple of fathers did not think this was feasible because their children are exposed to and prefer these sorts of foods. Several fathers noted that although their children were good eaters, they would like their children to eat a greater variety of foods, including
more fruits and vegetables, and less processed foods. A few fathers expressed concerns for their children’s current weight status, and alluded to wanting their children to lose weight.

**Fathers Would Like to Change Their Eating Habits.** A few fathers explained that along with their children they also should eat more healthfully. Several fathers stated that they needed to pay attention to portion sizes and increase their fruit and vegetable intake. Furthermore, several fathers noted that they would like to lose weight and spoke of doing this by increasing their physical activity and watching what they eat.

**II. Beliefs, Attitudes and Practices Related to PA and SB**

**Fathers’ Definition of Active Living.** When queried as to what active living means, about half of the participants provided a definition that focused on PA, while most others provided a broader definition that focused on being actively engaged in life, being mentally active, participating in family activities, being autonomous, and/or working. A few fathers provided a hybrid definition that encompassed both being physically active and being engaged in life. A couple of fathers provided slightly different definitions of active living for children and parents, by defining active living for children as including interactions with friends as well as opportunities for intellectual growth.

**Fathers’ Believe PA is Important.** Across all FGDs, fathers explained that they believed that PA is important for health and for
maintaining a healthy weight. Several fathers also mentioned the importance of PA for overall quality of life and mental health.

**Joint Decisions About Family Activities.** Most fathers, but not all reported that decisions regarding family activities were made by the family, with children, if old enough, being part of the decision-making process. Some fathers explained that they were more physically active than the mothers, who were more involved with household chores and keeping a family schedule. A few fathers noted that family activities sometimes unfold without planning and may be based on what the children feel like doing. A couple of fathers explained that they are usually active with their sons and their wives with their daughters.

**Fathers’ Parenting Styles and PA Parenting Practices**

**Fathers Are Permissive of Sedentary Activities for their Children and Struggle to Set Limits.** Several fathers acknowledged engaging in sedentary behaviors with their children and being permissive of children’s screen-time behaviors. A few fathers noted that setting limits on screen-time can be difficult, especially, during the cold winter months, when children are more likely to spend more time inside. Some fathers described being permissive and allowing their children to have unlimited screen-time. Furthermore, some fathers explained that playing video games, etc., is an acceptable part of children’s lives nowadays and difficult to limit. A number of fathers noted that their children, especially their sons, enjoyed...
playing video games, using their electronic devices, and watching
TV and that they often spent time with their children watching
soccer matches on TV and playing video games. Fathers also
spoke of other sedentary activities that their daughters enjoyed,
such as playing with dolls and coloring.

Fathers Report Being Involved and Engaged in Their Children’s
PA. Overall, fathers felt that they were more involved and engaged
in their children’s PA than with feeding their children.
Nevertheless, fathers reported that their children participated in
both active and sedentary activities. They reported that their
children liked playing soccer, swimming, and playing outside. A
few fathers noted that school had a positive impact on their
children’s physical activity levels by providing opportunities for
active play.

Fathers View Themselves as Physical Activity Role Models. Some
fathers recognized the importance of modeling PA, but noted that
they were not always as physically active as they should
Nevertheless, a few fathers reported seeking out and being
involved in adult sports programs in their communities.
Furthermore, a couple of fathers noted involving their children in
household chores (e.g., yard work) that required their children to
be active.

Fathers Perceptions of Barriers to Child Being Physically Active.
Not all fathers felt that there were barriers that prevented their
children from being physically active. For example, several fathers reported that they lived in safe neighborhoods that allowed their children to play freely in their yards and in the neighborhood (e.g., access to parks). However, others noted barriers to PA including accessibility, cost of activities/programs, and cold weather. Additional noted barriers included having to schedule activities and having to work long hours.

**Fathers’ Desire to Be More Physically Active.** A few fathers reported that they should be more physically active and spoke of being more active in the past. They noted that their reduced PA had contributed to their gaining weight. Only a limited number of fathers reported wanting their children to be more physical active.

**DISCUSSION**

The current literature examining Latinos’ parenting and their children’s health-related behaviors has primarily focused on Latina mothers’ beliefs, attitudes and practices related to their young children’s eating, PA, and SB. To date, there is a paucity of information on these topics among Latino fathers. To address this gap, the present qualitative study explored Latino fathers’ beliefs, attitudes and practices related to healthy eating, PA, and SB of their young children among a predominantly immigrant sample.

Although we purposively invited fathers with young children (2-8 years) to participate in the study and developed the
FGD guide to focus on food parenting practices and eating and PA habits of young children, it is worth noting that several fathers discussed these topics within the context of the whole family, including older and younger children. This is consistent with previous qualitative research and indicates the importance of the family within Latino communities. It also suggests that the family should be considered the unit of change, as prevention of child overweight and obesity will not be successful without considering parents and children as a complete unit.

Recent trends suggest an increase in overall father involvement in child care, with a few differences across racial and ethnic groups of fathers. Research on cultural models of parenting practices suggests that Latinos value of familism (e.g., family obligations, family reciprocity) is associated with behaviors that encourage fulfilling familial roles, such as taking care of children, which may lead to fathers being highly engaged in parenting. Studies conducted with Latino fathers in the U.S. suggest that they spend more time with their children in shared caregiving activities than White fathers. A recent study with Latino parents and their 3-12 years old children found that Latino fathers spent more time in caregiving activities than fathers from other ethnic groups.

Latino fathers participating in this study believed in the importance of healthy eating for their children, themselves, and
their families. Nevertheless, the majority reported a number of familial practices including eating out, getting take out, etc., that have been linked to unhealthy eating habits and increased risk of overweight and obesity among children. Moreover, several fathers reported a number of unhealthy personal eating habits (ignoring portion size, making unhealthy food choices, etc.) that may influence their children’s eating behaviors, which most fathers wished would change. This finding is congruent with studies involving Latina mothers, and underscores the importance of childhood obesity prevention interventions to address parents’ own eating behaviors. Given the importance of parental modeling in the development of children’s eating behaviors, parenting interventions should incorporate opportunities to engage fathers and promote changes in fathers’ own eating habits and food behaviors.

Contrary to recent studies conducted with Caucasian, middle-income fathers, most Latino fathers participating in our study reported that they had limited responsibilities for organizing child’s meals and deciding what foods to feed the child. Our study found that Latino fathers appeared to allow their child’s mother to make most decisions regarding their child’s healthy eating and that they were more actively involved in their children’s PA behaviors. This finding may reflect traditional parenting roles, with mothers bearing most responsibilities for child feeding.
Nevertheless, a few fathers reported that they shared some child feeding responsibilities with the mother, especially when the mother worked long hours.\(^{37}\)

Although more research is needed, our findings suggest that Latino fathers may be more interested in participating in interventions to promote PA and be less enticed to participate in interventions that focus solely on healthy eating. This should be taken into consideration when designing obesity prevention interventions involving Latino fathers. Future studies should continue to explore Latino fathers’ roles and responsibilities for child feeding, and associations with children’s eating habits and weight status. This information will be important for the design of obesity prevention interventions targeting Latino families that include fathers.

Consistent with previous research,\(^{67,68}\) a few fathers in the current study expressed concerns for their children’s weight status, and alluded to the fact that they like their children to lose weight. Appropriate assessment of a child’s weight, followed by appropriate weight management strategies is important for the prevention of obesity during childhood, as parents who misperceive their children’s weight status are less likely to engage in interventions to reduce risk of pediatric obesity.\(^ {67,68}\) Previous studies with Latino mothers and fathers indicate that both parents are likely to misperceive their children’s weight status, mostly
underestimating their weight status. Future research should further explore Latino fathers’ perceptions of their children’s weight status and how their perceptions and attitudes towards their child’s weight impact their food parenting practices and children’s weight status. This information is important as evidence suggests parents who report more concerns about their child becoming overweight or obese also report more controlling food parenting practices (what and how much their child eats) that may have unintentional negative impacts (e.g., overly restricting food access).  

Although our findings revealed that Latino fathers appeared to be more involved and engaged in children’s PA than eating and feeding, we also found that fathers engaged in sedentary activities with their children, appeared permissive of children’s SB, and struggled to set limits on children’s screen-time. These findings are important given evidence of the influence of paternal parenting styles and practices on children’s PA and screen-viewing behaviors. Previous research suggests that parental attitudes towards and use of screen time including parents’ own screen-viewing habits, using screen-viewing as a form of childcare (or babysitter), viewing screen-time as a source of education and as a means of child relaxation result in permissive styles toward their children screen-viewing. Furthermore, our findings indicate that Latino fathers’ ability to model healthy physical activity
behaviors for their children may be limited by their lack of self-efficacy to participate in these behaviors themselves and indicate that interventions should focus not only on fathers’ styles and practices, but also on helping fathers increase their self-efficacy for these behaviors. Existing research evidence combined with finding from this current study indicate the need for future research to further examine fathers’ attitudes and personal behaviors, as well as the influence of Latino fathers’ parenting styles and practices on their children’s PA and SB. This information will be critical for designing interventions to decrease Latino children’s screen-time and sedentary behaviors.

Moreover, study findings also suggest possible gender differences in fathers’ report of their daughters and sons’ PA and SB, as well as their involvement and engagement in activities with their sons, and daughters. Despite the small number of fathers who reported such differences, this is worth exploring further in future qualitative and quantitative research.

In conclusion, although the role of fathers in the promotion of their children’s eating, PA, and SB is a growing area of research, there is still limited information available on the role of minority fathers including Latinos. This current study provides insights into the role of Latino fathers in promoting their children’s eating, PA, and SB behaviors within the family environment and contributes information that allow for a more
complete picture of how Latino parents view eating and PA environments for their children. Given the central role of the family in the Latino culture, effective interventions targeting the promotion of healthy eating, PA, SB and ultimately the prevention of child obesity and related chronic diseases, should take into account the role of fathers. 13,17,36-39

Existing research suggests obesity prevention interventions designed for Latino children and families should target multiple behaviors (eating, PA, SB, sleep), be family-focused and involve both parents. 83-89 Research also suggests the importance of the intervention context (particularly, family constraints, ethnicity and parental motivation) in changing behaviors Furthermore, interventions need to consider adapting program content to consider cultural preferences. 83-89 In the case of Latinos, the use of culturally appropriate lay leaders (promotoras) to deliver interventions has shown to be efficacious. The present study adds to the existing literature and can inform the design of future research and the development of parenting and family-based interventions targeting Latino families. 80,81

Study findings should be considered in light of some limitations. Findings are based on a nonrandom, purposeful, and relatively small sample of low-income, Latino fathers recruited from community-based organizations located in a few cities in RI. Selection bias may have resulted in fathers having a heightened
interest and awareness about eating, PA, and SB. Furthermore, given that our recruitment strategy included recruiting participants from the WIC clinics, it is possible that fathers might have been more inclined to believe that mothers were more knowledgeable of nutrition because of their participation in the WIC program. Future research should utilize both qualitative and quantitative methods that address these study limitations by using different recruiting methods, and exploring Latino fathers’ beliefs, attitudes and practices related to eating, PA, and SB from other communities across the U.S. Nevertheless, this qualitative study provided deep insight into primarily immigrant, Latino fathers’ personal beliefs, attitudes, and practices related to child eating, PA, and SB and contributes new information to the current scant literature on Latino fathers and prevention of childhood obesity.

**CONCLUSIONS**

The present study provides new information on the beliefs and child feeding and PA practices of Latino fathers, most of whom were immigrants. The results may provide important targets for interventions aimed at promoting children’s healthy eating and PA practices involving Latino fathers. Given the importance of the family in Latino culture, and indication from the literature of the importance of the family context in the development of early healthy eating and PA habits, future research should further explore the role of fathers’ parenting styles and practices in the
development and support of children’s early eating and PA habits. This information is needed to identify risk factors amenable to interventions and to design culturally appropriate parenting and family-based interventions targeting the home environment of Latino children and designed to meet the specific needs of this ethnic group.

Abbreviations

US: United States; PA: physical activity; SB: sedentary behaviors; RI: Rhode Island; TV: television; WIC: Special Supplemental Nutrition Program for Women, Infants and Children; FGD: focus group discussions; SASH: Short Acculturation Scale for Hispanics; GED: General Educational Diploma.
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Table 1: Questions from the focus group discussion guide on Latino fathers’ beliefs, attitudes and practices related to their young children’s eating, physical activity and sedentary behaviors.

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<th>Discussion Guide Questions</th>
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<tr>
<td>Father’s beliefs, attitudes and practices related to child eating and feeding</td>
<td>Question: What does healthy eating mean to you? <em>Probes:</em> How would you describe a “healthy meal”? How do you decide if a food is good for health? What foods do you think are good for health?</td>
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<td>Beliefs and attitudes related to healthy eating</td>
<td>Question: In general, how satisfied are you with the types and amount of food your child eats? <em>Probes:</em> Why? Is it the same as what the rest of family eats? Is it culturally appropriate? Is it healthy?</td>
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<td>Perceptions of child’s eating and feeding experiences</td>
<td>Question: What are some foods that you wish your child would eat more of or more often? <em>Probes:</em> Why?</td>
</tr>
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<td>Practices related to child’s eating and feeding at home</td>
<td>Question: What food do you wish your child would eat less often? <em>Probes:</em> Why?</td>
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<tr>
<td>Practices related to child’s eating and feeding at home</td>
<td>Question: What are your biggest concerns about how your child eats? <em>Probes:</em> Do you ever worry your child does not eat enough? Do you ever worry about not having enough food to provide to your child?</td>
</tr>
<tr>
<td>Practices related to child’s eating and feeding at home</td>
<td>Question: In general, how satisfied are you with the types and amount of food you eat? <em>Probes:</em> Why? Is it the same as what the rest of family eats? Is it culturally appropriate? Is it healthy?</td>
</tr>
<tr>
<td>Father’s beliefs, perceptions and practices related to child physical activity</td>
<td>Question: How important do you think it is for children to be physically active? <em>Probes:</em> Do you think it is a problem for kids to spend too much time being sedentary or not being physically active?</td>
</tr>
<tr>
<td>Beliefs and perceptions of children’s physical activity at home</td>
<td>Question: How much physical activity do you think children need? <em>Probes:</em> Why?</td>
</tr>
<tr>
<td>Beliefs and perceptions of children’s physical activity at home</td>
<td>Question: How physically active is your child at home? <em>Probes:</em> Plays actively outside? Plays actively inside? Does not play actively when at home?</td>
</tr>
<tr>
<td>Beliefs and perceptions of children’s physical activity at home</td>
<td>Question: In general, how satisfied are you with the amount of physical activity your child engages in? <em>Probes:</em> Why? Do you wish he or she would be more active? Do you wish he or she had more outdoor playtime?</td>
</tr>
<tr>
<td>Beliefs and perceptions of children’s physical activity at home</td>
<td>Question: What are some types of physical activity or active play your child engages in while at home? <em>Probes:</em> Riding his or her bike? Playing in nearby playground or park?</td>
</tr>
<tr>
<td>Beliefs and perceptions of children’s physical activity at home</td>
<td>Question: What are your biggest concerns about how physically active your child is? <em>Probes:</em> Do you ever worry your child does not engage in enough physical activity? Do you ever worry that your child is too sedentary?</td>
</tr>
<tr>
<td>Beliefs and perceptions of children’s physical activity at home</td>
<td>Question: What types of things would you like to change about how physically active your child is at home? <em>Probes:</em> Amount? Types of activity?</td>
</tr>
</tbody>
</table>
**Running Head:** Latino fathers beliefs and practices

| Practices related to screen time at home | Do you have any rule at home for your child regarding TV and/or video time or playtime with electronics? *Probe:* Time limit on TV and electronics? Not allowing electronics in home?  
What kinds of rules or practices do you have at home regarding your child watching TV and/or videos or playing with electronics? *Probe:* Time limit on TV and electronics? Not allowing the TV on during meals? Not allowing TV during the week?  
Does your child own his or her own TV, computer, or portable video game equipment? *Probe:* Do you let your child keep these electronics at all times? |
<table>
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<tbody>
<tr>
<td>Fathers’ personal physical activity and sedentary behaviors and desire for personal changes</td>
<td>In general, how satisfied are you with the amount of physical activity you engage in? <em>Probe:</em> Why? Do you wish you would be more active? If desire changes, what would you change in your physical activity behaviors?</td>
</tr>
</tbody>
</table>
| Father’s Perceptions of Barriers Related to Child’s Healthy Eating, Physical Activity and Sedentary Behaviors | What types of barriers, if any, do you face in making sure that your child eats or drinks what you think is “good” for him or her at home? *Probe:* Time? Cost? Knowledge of what and how much to feed your child? Influence of other people in the household (e.g., older siblings, grandparents, father, mother)  
What types of barriers do you face in making sure that your child is physically active when at home? *Probe:* Space? Time? Household obligations? Neighborhood safety? Knowledge of how physically active your child should be? Influence of other people in the household (e.g., older siblings, grandparents, father, mother)  
What types of barriers do you face in making sure that your child does not spend too much time sedentary time such as watching TV and/or videos or playing videogames at home? *Probe:* Lack of household rules? Space? Time? Other obligations that keep you from having time to take your child out to play? |
| Final remarks | Is there anything else you would like to share with us related to your children’s eating and physical activity experiences at home or at the family childcare home? |
**Table 2:** Socio-demographic and acculturation characteristics of study participants (n = 28).

<table>
<thead>
<tr>
<th>Age</th>
<th>Mean + SD</th>
<th>n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>34.2 ± 2.8</td>
<td></td>
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<table>
<thead>
<tr>
<th>US-born</th>
<th></th>
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<tbody>
<tr>
<td>Yes</td>
<td>4 (14.3)</td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>24 (85.7)</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Country/Territory of Origin</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Colombia</td>
<td>9 (32.2)</td>
<td></td>
</tr>
<tr>
<td>Dominican Republic</td>
<td>6 (21.4)</td>
<td></td>
</tr>
<tr>
<td>Puerto Rico</td>
<td>4 (14.3)</td>
<td></td>
</tr>
<tr>
<td>Ecuador</td>
<td>2 (7.1)</td>
<td></td>
</tr>
<tr>
<td>El Salvador</td>
<td>2 (7.1)</td>
<td></td>
</tr>
<tr>
<td>Mexico</td>
<td>2 (7.1)</td>
<td></td>
</tr>
<tr>
<td>Guatemala</td>
<td>1 (3.6)</td>
<td></td>
</tr>
<tr>
<td>Venezuela</td>
<td>1 (3.6)</td>
<td></td>
</tr>
<tr>
<td>Honduras</td>
<td>1 (3.6)</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Years in the United States*</th>
<th>14.3 ± 2.7</th>
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<table>
<thead>
<tr>
<th>Predominant language spoken at home</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Spanish</td>
<td>26 (92.9)</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>2 (7.1)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Marin scale acculturation score</th>
<th>2.32 ± 0.36</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Marital status</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Married</td>
<td>26 (92.9)</td>
<td></td>
</tr>
<tr>
<td>Divorced</td>
<td>2 (7.1)</td>
<td></td>
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<table>
<thead>
<tr>
<th>Education level</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Less than high school</td>
<td>8 (28.6)</td>
<td></td>
</tr>
<tr>
<td>High school degree</td>
<td>14 (50.0)</td>
<td></td>
</tr>
<tr>
<td>General Education Development (GED)</td>
<td>6 (21.4)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Household annual income</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; $40K/year and ≤ $50,000</td>
<td>11 (39.3)</td>
<td></td>
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<tr>
<td>≤ $40K/year</td>
<td>17 (60.7)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Currently Employed</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>26 (92.9%)</td>
<td></td>
</tr>
<tr>
<td>No</td>
<td>2 (7.1%)</td>
<td></td>
</tr>
</tbody>
</table>

Note: *only includes fathers not born in US states.
Table 3: Focus group themes and supporting quotes from Latino fathers (n=28) regarding their beliefs, attitudes and practices related eating, physical activity and sedentary behaviors of their children aged 2 to 8 years.

<table>
<thead>
<tr>
<th>Themes</th>
<th>Representative quotes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Healthy Eating and Food Parenting Practices</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Definition</strong></td>
<td>“The diet should be healthy, should include vegetables and fruits, but necessarily everything. Healthy eating should include equilibrium”</td>
</tr>
<tr>
<td></td>
<td>“I say it’s no fast-foods, not eating any fast food meals…”</td>
</tr>
<tr>
<td></td>
<td>“For me it’s a balanced diet. It doesn’t matter what you eat, it’s about the portion.”</td>
</tr>
<tr>
<td></td>
<td>“Healthy eating to me is a lifestyle, it’s a way of life. It comes with so much more than just food. It’s a big part of it, but healthy, it’s just about knowing how to prepare the right meal and serving the right portion and at the right time.”</td>
</tr>
<tr>
<td><strong>Importance</strong></td>
<td>“Healthy eating is one of the most important things for one’s health, and living healthy...umm, it affects one’s quality of life”</td>
</tr>
<tr>
<td></td>
<td>“I think it’s important that the kids learn to eat healthy, healthy foods when there are young...it has an impact on their growth and health...”</td>
</tr>
<tr>
<td><strong>Personal Practices</strong></td>
<td>“I think it’s important to try [eat healthy], but sometimes you can’t help it... there’s just so much food out there, everywhere you go, fast-food, quick and cheap, and one makes bad choices...”</td>
</tr>
<tr>
<td></td>
<td>“…Many times I have to eat whatever is quickly available, fast and on-the-go...so, the fastest and convenient is not healthiest...pizza, tacos, hamburgers...”</td>
</tr>
<tr>
<td><strong>Fathers’ Food Parenting Practices</strong></td>
<td>“It’s a constant effort... you need to keep trying to teach them [children] to eat healthy ...all of us [adults included]”</td>
</tr>
<tr>
<td></td>
<td>“I would like to change her [daughter] temptation. When we are driving she always wants to go to a fast food place. I know that a lot of places now offer healthier choices in their menus... salads, yogurts, fruits...[fast-food restaurants] now got things that are more natural, but still it’s a temptation...”</td>
</tr>
<tr>
<td><strong>Continued effort</strong></td>
<td>“You can’t expect that children are going to eat healthy all the time. Every now and then they have some food that’s not good [healthy]... some fries, some candy and ice cream... they are kids...”</td>
</tr>
<tr>
<td></td>
<td>“I wish that my son would eat healthier, but he likes to eat some foods that are unhealthy, just like most kid...”</td>
</tr>
<tr>
<td><strong>It is Okay to Indulge and Eat Unhealthy Once in a While</strong></td>
<td>“During the week we eat at home and during the weekends we go out...”</td>
</tr>
<tr>
<td></td>
<td>“Chinese buffets, I love it. I love the shrimp. Sometimes we go to American restaurants, pizza, McDonalds once in a while, Burger King, those types of things. Sometimes we have had enough [home cooking] at home, so to vary we visit those places...”</td>
</tr>
<tr>
<td></td>
<td>“If we get out, Wendy’s or McDonalds. She [daughter] always goes out for pizza...”</td>
</tr>
<tr>
<td></td>
<td>“When we go out to eat, it’s usually a place where we can get some pizza, sometimes we take the kids to Applebee [chain restaurant] or stuff like that. Places that we know typically where they [children] like to eat...”</td>
</tr>
<tr>
<td></td>
<td>“We try to go out to restaurants, but [with children] it’s hard to have a sit down meal. We get fast-food, pizza...always Wendy’s for fast-food...”</td>
</tr>
</tbody>
</table>
### Running Head: Latino fathers beliefs and practices

<table>
<thead>
<tr>
<th>Fathers’ Involvement with and Responsibilities for Child Feeding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fathers Have a Traditional View of Motherhood</td>
</tr>
<tr>
<td>“She [mother] is most direct contact when she is buying the food and when she chooses what we eat.”</td>
</tr>
<tr>
<td>“Yeah, usually is my wife. But we both help each other in that. But usually she makes the decision. “Latino moms usually are the ones who do that...”</td>
</tr>
<tr>
<td>“I like to follow the mother’s lead...it’s just easier that way.”</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Fathers’ Perceived Barriers to Children’s Healthy Eating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time constraints</td>
</tr>
<tr>
<td>“Sometimes during the week it’s hard to find the time to prepare a meal. If my wife does not plan everything during the weekend, sometime we just need to eat something on the go...”</td>
</tr>
<tr>
<td>“My wife likes to plan in advance, she does the shopping during the week and prepare some of the foods that take longer...during the week our working hours can be long. My mother-in-law helps, but sometimes if we don’t have things planned it’s hard to cook a family meal”</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Conflicting schedules</th>
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<tbody>
<tr>
<td>“My wife does a lot, it’s crazy with the schedule at work, and sometimes it changes the last minute...if I am not home it’s hard...”</td>
</tr>
<tr>
<td>‘My wife has a more set schedule and she gets home at around 4 PM and tries to get things started so that when I get home with the kids we can have a meal, but it can be hard”</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Convenience</th>
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<tbody>
<tr>
<td>“Sometimes you need to get something quick after a long day of work...the kids come home from school, my wife is still at work...so, we just get some take out...”</td>
</tr>
<tr>
<td>“Every now and again, we just get something to eat before coming home - my wife, myself, and the kids. Sometimes if I need to work late, my wife and the kids grab something...some days she just can’t do everything. I say, that’s fine, no one is going to die because you are not cooking today...”</td>
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<table>
<thead>
<tr>
<th>Easy access and availability of unhealthy food choices</th>
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</thead>
<tbody>
<tr>
<td>“It’s hard to resist sometimes...nowadays it’s so easy for kids [and adults] to eat fast food... When I was growing up, bad food was fried food at home...”</td>
</tr>
<tr>
<td>“You know, everywhere you go there is food, junk food, and it doesn’t cost much...sometimes you don’t even think about it ...when you see the kids have eaten 2-3 junk food already, a donut, a hamburger and fries and soda...just like that...it’s everywhere”</td>
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<table>
<thead>
<tr>
<th>Desire for Changes</th>
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<tbody>
<tr>
<td>Fathers Would like their Children’s Eating Habits to Change</td>
</tr>
<tr>
<td>“I’d like to see some changes... I would like my daughter to stop eating candy, and eat food. I also would like [daughter] to drink water and not soda.</td>
</tr>
<tr>
<td>“You know, that little cookie here and candy there is not good, so probably that is one of the things I would like to change. Cut down on the sugar,”</td>
</tr>
<tr>
<td>“Have some lower intake in sugar, that is my wish...but that is probably unrealistic...”</td>
</tr>
<tr>
<td>“I guess my goal would be for them to eat more vegetables. More of a balanced diet, umm, you know, like we’ve touched upon throughout this talk ... a more balanced diet, and cutting down on the processed foods...”</td>
</tr>
<tr>
<td>“I just want mine [child] to umm... be in a balanced weight or at a healthy weight. With healthy, umm...with healthy traditions and just I want them to eat right. I want them to grow up to be healthy adults. That they [children] are educated and have the knowledge of what is good for you, what’s not good for you...that’s what I wish for them [children]”</td>
</tr>
</tbody>
</table>
**Running Head:** Latino fathers beliefs and practices

| Fathers Would Like to Change Their Eating Habits | “I am trying to change because before I could eat whatever I never worried about gaining weight. Since I’m not running as much and stuff like that, I’m noticing that I’m getting a little heavier.”
“Am not satisfied, because I think that relatively speaking, I am in the worst shape in my life. So, I think that from that point of reference…how I used to be, I’m not there. So, currently, you know, I would like to change…lose weight. I know I’m not going to go back to when I was eighteen, but definitely be in better shape, be you know, in shape.”
“I’m very interested in changing what I eat. I know I eat very unhealthy and that is something I’ve been trying to change actually. So, definitely want to change.” |
| --- | --- |

| Physical Activity and Sedentary Behaviors | **Definition**
“Active living to me would be somebody who goes outside, sees how beautiful life is, goes on a walk, exercise, doing activities with friends, family, just living life in a positive way, which doesn’t involve just standing still. A body in motion will stay in motion. Just, moving around and trying to enjoy it.”
“Daily exercise, have a life that is not always sitting near the television, do exercise for your whole body – walk, run, and play sports. Now, I currently don’t run, but walk in the morning.”
“Active living for me is staying active. Not necessarily doing exercise, but something like just walking. Even just going to the mall and just walking.” |
| --- | --- |

| Importance | **Fathers believe physical activity is important**
“Being active is very important. You need to get your body moving to keep healthy and it really helps you mentally too...”
“For the kids especially, I think they need to be moving, get themselves more alert, more engaged…I think that the kids cannot spend a lot of time just sitting in front of the computer or playing video games…they need to be active for their health”
“Our body was made to be active! So, believe that being active is necessary to keep healthy!” |
| --- | --- |

| Responsibility | **Joint decisions about family activities**
“I mean, we both decide in many ways. He is with her [mother] more than he is with me, but at the same time we have the same philosophy.”
“We try to always do things together as a family. We go to the zoo, we go together, we go to the museum, we go together, so that is more shared decision...when we are at home, then my wife is more in charge...” |
| --- | --- |

| Parenting Styles and Practices | **Permissive Style and Limit Setting**
“Know with my daughter it’s difficult...she kind of like to play with dolls, do her coloring...I am not going to interfere with that...I just let her do what she wants and like. I just like to live in harmony...why fight, right?”
“It’s kind of hard because you want them to be active and play, but every kid is doing it and nowadays it’s just part of their lives, so it’s kind of hard to be always telling them no this no that ...”
“My son, he is very much video games, if he can play video games and stay indoors, that would be it, heaven for him! So, I constantly have to tell him, “get outside”, go out and play. Or, I have another rule with him. My son is twelve. You can play video games, but every time you win, or every time you get a next level, you have to do then push-ups. If you don’t do, you don’t play. It’s a battle with everything...”
“Well the kids nowadays, they love their video games and stuff like that. So, we try to set some limits, but they still do it...it’s kind of inevitable to keep them off line...” |
| --- | --- |
**Running Head: Latino fathers beliefs and practices**

| Involvement and Engagement | “It is usually me when it comes to doing stuff with them...usually mom comes home and she’s kind like to keep everything in order kind of thing. Usually, the kids come and the house is...you house is in order and everything”
“If you know my wife wants to do more things with my daughter and I do with my son. I’ll go hike with son and all those type of stuff.”
“You know I kind of like to get my kids involved in some sports and play...my son plays karate, soccer, I really enjoy taking him to the activities, and that’s also good because it gives my wife a break to do her things around the house...” |
| --- | --- |
| Role Modeling | “I know it's important for my kids to see we are active, you know, if they see you just sitting around and watching TV, they will want to do that...so, I try to take them out whenever I can, just get outside and play...”
“My son loves soccer, and that’s great because I grew up playing soccer, so he and I play together, you know I like show him how to play...”
“We do some work yard together. I make my older and younger son cut the grass. My two little ones help me out with the gardening stuff. Just working on the yard...” |
| Barriers to PA | “It’s pretty much coordinating the schedule with her mom and myself. Sometimes it’s just hard to get everything going including get the kids out with all that needs to get done”
“You know living in New England the weather is always a factor. When the weather changes you cannot go outside and be as active as you like, then you just wait, stay more inside until the weather changes again.”
“Honestly, the factor is that it is a financial issue. I have four them [children] and I want them to try everything and try every class in the world, but honestly I can’t afford it. That is my issue...I wish I could put them in every sport and give them every outlet to find out what their talent is and what they are going to best at. But financially I can’t do it. ”
“I think if you have access to different sports in terms of the city or the state because sometimes you have to find the cheaper sport in your neighborhood and it’s not the best for your child. I think every school, if you have more access, it would be better. “ |
| Desire for Change | “The physical activity that I am doing right now is none. I would like to return to soccer, but I have a problem with my foot...I don’t know, I just like to go back to being active again...”
“I am not satisfied because I think that relatively speaking, I am in the worst shape in my life. So, currently, you know, I would like to be in better shape. I used to be more active than I am now.”
“I think I can still walk more. I would like to change that. I don’t think I’ve been doing that much lately and also maybe from home, if the weather doesn’t allow me to walk, have some treadmill, have something I can still be active even if I didn’t get out of my house” |
Running Head: Latino fathers beliefs and practices