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PUBLIC HEALTH NUTRITION



A qualitative study conducted in the U.S. exploring Latino fathers' beliefs, attitudes and practices related to their young children's eating, physical activity and sedentary behaviors

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1 INTRODUCTION

2 Latinos and Hispanics (hereafter referred to as Latinos) are 3 the largest and most rapidly growing population group in the United States¹ (U.S.) and children in low-income Latino families 4 have an elevated risk of becoming overweight or obese.² Recent 5 statistics show that almost 17% of Latino preschool children are 6 7 classified as being obese compared to 11% of Black, 4% of White, and 3% of Asian children.² As a result, childhood obesity among 8 9 Latinos is a pressing public health concern as childhood weight 10 status tracks into adulthood and increases risk of other obesityrelated chronic diseases.^{2,3} 11 12 Establishing healthy eating and physical activity (PA) habits early in life is important for preventing obesity and related 13 co-morbidities in childhood and beyond.^{4,5,6} Multiple behavioral 14 risk factors such as unhealthy eating habits (e.g., consumption of 15 calorie-dense, nutrient-poor food), low physical activity levels and 16 17 increased sedentary behaviors have been linked to disparities in childhood obesity among Latino children.^{2,3,6} Parents are key 18 players in determining their children's weight status through the 19 20 home environment they create for eating, PA and sedentary behaviors (SB).^{4,7-11} Furthermore, parents shape their children's 21 22 eating, PA, and SB through their knowledge of nutrition; influence 23 over food selection, meal structure and home eating patterns; 24 modeling of eating, PA, and SB, including television-viewing and

| 25 | screen-time. ^{4,8,10-12} Due to parental influences on their children's |
|----|---|
| 26 | eating and PA practices—and thus in preventing obesity, they |
| 27 | should be central to collective efforts to end the childhood obesity |
| 28 | epidemic. ^{4,5,12} |
| 29 | To date research examining parental influences on |
| 30 | children's healthy eating, PA, and SB has primarily focused on |
| 31 | mother-child interactions. ^{3, 6-11,13-20} This research documents the |
| 32 | critical influence of mothers' beliefs, attitudes, parenting styles, |
| 33 | and practices on children's eating, PA, SB, and weight |
| 34 | status. ^{10,11,13-20} Although, in most cultures, mothers still spend |
| 35 | more time caring for their children, fathers' involvement in |
| 36 | childcare has increased over the past decades, especially in high- |
| 37 | income countries. ²¹⁻²⁵ This increase may be due to changes in the |
| 38 | labor market, increased participation of women in the labor force, |
| 39 | and changes in family roles and dynamics. ^{23,26} |
| 40 | Recent reviews point to the limited representation of fathers |
| 41 | on parenting and childhood obesity research. ²⁷⁻³⁰ Despite the |
| 42 | increasing number of studies examining fathers' food parenting |
| 43 | practices, ³¹⁻³⁵ available research assessing the influence of |
| 44 | parenting styles and practices on children's eating among Latino |
| 45 | fathers is limited. ³⁶⁻⁴⁰ Nonetheless, these studies underscore |
| 46 | father's influential role on children's eating. ³⁶⁻⁴⁰ This small body of |
| 47 | research indicates the need for further research, but also suggests that |
| 48 | Latino fathers be included in nutrition interventions designed to reduce |

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and prevent child obesity.³⁶⁻⁴⁰ Similarly, a growing research literature 49 documents the influential role of fathers on children's PA and SB, 50 51 but the majority of this research has focused on Caucasian, middleincome fathers^{39,41} with limited research examining Latino fathers' 52 beliefs, attitudes and practices related to young children's PA and 53 SB.^{39,41} Results of a recent review that included 13 studies 54 55 examining home environmental influences on childhood obesity 56 among Latino children (2-17 years) revealed that Latino children spend more time using media (e.g., watching television (TV), 57 58 playing video games) and have fewer limitations placed on them 59 by their parents regarding the use of media than White or Black 60 children and that this lack of limits was associated with increased inactivity and child weight gain.⁷ The majority of studies included 61 in this review were comprised primarily of Latina mothers, 62 63 highlighting the need for additional studies to include Latino fathers.⁷ 64 65 Identifying and understanding potentially modifiable 66 factors associated with increased risk of child obesity among minority, low-income children, such as Latinos, is critical to 67 collective efforts to prevent and control childhood obesity.^{3,6} Given 68 69 limited but increasing evidence of the influential role of fathers in 70 their children's development of eating, PA, and SB, the purpose of 71 the present study was to expand on the current existing research 72 and examine Latino fathers' beliefs, attitudes and practices related to

their young children's eating, PA and SB.

74 **METHODS**

75 Study Design and Sample

76 The present study was part of a community-based, mixed-77 methods research study designed to assess parenting styles and 78 practices related to eating, PA, and SB associated with risk of 79 childhood obesity that is being conducted with Latino families living in the state of Rhode Island (RI).⁴² We used a purposive 80 81 sampling method to recruit participants from Special Supplemental 82 Nutrition Program for Women, Infants and Children (WIC) clinics 83 and community-based programs and agencies serving 84 predominantly Latino populations in RI. Clinics and community-85 based programs and agencies were contacted by a Research 86 Coordinator who explained the purpose of the research and asked 87 the sites to participate in recruitment efforts. Sites agreeing to 88 participate were mailed study flyers in Spanish and English that 89 included a phone number for interested participants to call. Flyers 90 were posted at agencies between June and October 2016. 91 Individuals who contacted the research coordinator were screened 92 for study eligibility. Fathers were eligible to participate if they self-93 identified as being of Hispanic ethnicity; were 21 years of age or 94 older; had lived in the U.S. for at least 12 months; had at least one 95 child between 2 and 8 years of age, who was enrolled or eligible 96 for the WIC program; and had shared parental responsibilities for

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| 97 | or cohabitated with said child. Initial eligibility included being a |
|-----|---|
| 98 | parent of at least one child between 2-5 years of age, which is the |
| 99 | age group eligible for the WIC program. However, to recruit a |
| 100 | sufficient number of fathers, we extended age limit to 8 years of |
| 101 | age, given that most eligible families had children of multiple ages. |
| 102 | We chose to conduct focus group discussions (FGDs) |
| 103 | because they are an important technique for conducting research in |
| 104 | diverse cultural settings, and provide valuable information. ^{43,44} |
| 105 | Moreover, the synergistic effects of group settings elicit ideas and |
| 106 | discussion that may not arise in individual interviews. ^{43,44} Ethics |
| 107 | approval was obtained from the University of Massachusetts |
| 108 | Boston Ethics Board (IRB# 2013060). |
| 109 | Data Collection |
| 110 | We conducted seven FGDs with Latino fathers at local |
| 111 | public libraries and community agencies between August and |
| 112 | October 2016. Each FGD had three to five participants. All FGDs |
| 113 | were conducted in Spanish, and moderated by a bilingual native |
| 114 | Spanish-speaker, trained in qualitative research methods, using a |
| 115 | semi-structured discussion guide that explored fathers': (a) |
| 116 | definitions of healthy eating and active living; (b) beliefs and |
| 117 | attitudes related to healthy eating, PA, and SB of young children; |
| 118 | (c) practices related to eating, PA, and SB; and (d) perceptions of |
| 119 | barriers to children's healthy eating and PA (Table 1). The FGD |

| 120 | guide was piloted-tested in a FGD with Latino fathers not included |
|-----|---|
| 121 | in this study and refined prior to use. |
| 122 | Before each FGD, the moderator explained the study's |
| 123 | purpose and procedures, and participants provided written, |
| 124 | informed consent. Before beginning each FGD, the moderator |
| 125 | asked fathers to think about their youngest child (2-8 years of age) |
| 126 | when participating in the discussion. Each audiotaped FGD lasted |
| 127 | between 60 and 80 minutes, and a trained, bilingual (Spanish and |
| 128 | English) research assistant took notes during each session. The |
| 129 | moderator and research assistant convened for approximately 15 |
| 130 | minutes after the end of each FGD to discuss new and recurring |
| 131 | themes heard during the session, which were then added as probes |
| 132 | to the FGD guide. |
| 133 | At the completion of FGD, participants received a \$25 gift |
| 134 | card for participation and completed a brief, self-administered |
| 135 | survey that assessed participants' socio-demographics (e.g., |
| 136 | education, marital status, country of origin, length of time living in |
| 137 | the U.S., etc.), and level of acculturation via the Short |
| 138 | Acculturation Scale for Hispanics (SASH). ⁴⁵ The SASH is a 12- |
| 139 | item measuring scale validated for use in Latino groups, such as |
| 140 | Mexican Americans, Cuban Americans, Puerto Ricans, |
| 141 | Dominicans, and Central and South Americans.45 The SASH |
| 142 | assesses language use, media use, and ethnic social relations. An |
| 143 | acculturation score was computed by averaging across 12 items; |
| | |

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- 144 measured on a scale of one to five (1=least acculturated, 5=fully
- 145 acculturated).⁴⁵
- 146 Analysis

147 Audio tapes were transcribed verbatim in Spanish and translated into English without identifiers. To ensure that the 148 149 integrity and equivalence of the data was not lost in the process of 150 translation, a professional transcriptionist, bilingual and native 151 Spanish-speaker translated the transcripts using forward-backward 152 techniques to establish semantic equivalence in translation. We 153 analyzed transcripts using thematic analysis, an iterative process of coding the data in phases to find meaningful patterns.^{46,47} Analytic 154 155 phases included data familiarization, generation of initial codes, 156 searching for and review of themes and patterns, and defining and 157 naming themes. The NVivo 11 software (QSR International Pty 158 Ltd. Version 11, 2015) was used to assist in coding, organizing and 159 indexing of the qualitative data. All transcripts were read and 160 reviewed by two authors who identified and generated initial 161 codes, concepts, and themes. Next, themes were reviewed, identified, defined, and named.^{46,47} Descriptive statistics and 162 163 frequencies were calculated for the socio-demographic data and the 164 Marin scale using Microsoft Excel 2008. **RESULTS** 165 166 Seven FGDs with 28 Latino fathers of young children

167 representing 28 unique families were conducted. Participants' ages

| 168 | ranged from 27 to 49 years old (mean=34.2, standard deviation |
|-----|---|
| 169 | (SD)=2.8). Participants had an average of two children (range: 1– |
| 170 | 4) per household, and 92.9% (n=26) cohabited full-time with their |
| 171 | children. Approximately 71.4% (n=20) had a high school degree |
| 172 | (50%, n=14) or general education diploma (GED) (21.4%; n=6), |
| 173 | and 60.7% (n=17) reported an annual family income of \leq \$40,000. |
| 174 | Nearly all (85.7%; n=24) were foreign-born, and had lived in the |
| 175 | U.S. for an average of 14.3 years (SD=2.7). The majority (92.9%; |
| 176 | n=26) reported speaking primarily Spanish at home, and their |
| 177 | mean acculturation score was 2.32 (SD=0.36), indicating that they |
| 178 | more closely identified with Latino culture, although they were |
| 179 | close to "bicultural". See Table 2 for additional information on the |
| 180 | demographic characteristics of the fathers participating in the |
| 181 | study. |
| 182 | Emergent themes related to fathers' beliefs, attitudes and |
| 183 | practices related to eating, PA, and SB of their young children are |
| 184 | discussed below. Table 3 presents representative quotes illustrating |
| 185 | each theme. |
| 186 | I. Beliefs, Attitudes and Practices Related to Healthy Eating |
| 187 | Fathers' Definitions of Healthy Eating. Fathers defined healthy |
| 188 | eating in a variety of ways, although most offered a definition that |
| 189 | focused on the importance of eating a balanced diet that included |
| 190 | adequate amounts of fruits, vegetables, and proteins. Fathers also |
| | |

- spoke of limiting fried, "junk," and fast foods, and several noted
- 192 the importance of portion control.
- 193 Fathers Believe Healthy Eating is Important. Across all FGDs,
- 194 fathers agreed about the importance of healthy eating for one's
- 195 health and quality of life, including both adults and children.
- 196 Moreover, several fathers viewed healthy eating as a lifestyle, and
- 197 reported that they consistently tried to eat a variety of healthy
- 198 prepared foods. A few fathers noted the importance of children
- 199 developing early healthy eating habits.
- 200 Fathers Do Not Always Eat Healthy, But Are Aware of the Need
- 201 *for Improvement.* Although there was consensus about the
- 202 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
- 206 healthy and more convenient options. In addition, a few fathers
- 207 mentioned that it is "easy to give in to unhealthy food choices
- 208 when feeling stressed out".
- 209 Fathers' Food Parenting Practices
- 210 Continued Effort. A few fathers spoke of their continued efforts to
- 211 promote and support their children's healthy eating. Fathers
- 212 explained that the food available outside of their home is a
- 213 constant "temptation", and impacts what types of foods their

| 214 | children want to eat, and "threatens" their children's healthy eating |
|-----|--|
| 215 | habits. |
| 216 | It is Okay to Indulge and Eat Unhealthy Once in a While. A few |
| 217 | fathers reported that it is inevitable that their children will eat |
| 218 | foods that are unhealthy, but that they tried to keep it to a |
| 219 | minimum and mostly to the weekends. In addition, a couple of |
| 220 | fathers suggested allowing "unhealthy" food choices as "once-in-a- |
| 221 | while" reward. |
| 222 | Eating Out. Some fathers noted that they rarely eat out, while |
| 223 | others reported that they eat out frequently. Fathers most often |
| 224 | went out to eat with their families on the weekends. When asked |
| 225 | about the types of restaurants they frequent and foods ordered, |
| 226 | fathers reported going to large chain restaurants, ethnic restaurants |
| 227 | (e.g., Chinese, Hispanic) or out for pizza. Several fathers spoke of |
| 228 | eating at fast-food restaurants, as it can be hard to eat out with |
| 229 | young children. |
| 230 | Fathers' Involvement with and Responsibilities for Child |
| 231 | Feeding |
| 232 | Fathers Have a Traditional View of Motherhood. Most fathers who |
| 233 | lived full-time with their children reported that their child's mother |
| 234 | most often decided what their children and families ate, as well as |
| 235 | how meals were prepared. A few fathers did note that it was a joint |
| 236 | decision about the foods served to their families. The two fathers |
| 237 | who did not co-reside with their children reported that they |

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238 followed the lead of the mother regarding meals and child feeding. 239 Some fathers explained that they preferred to let the mother make 240 the decisions about child feeding as they felt mothers know how to 241 best teach and instill healthy habits. A few fathers were more 242 directly involved in decisions about child feeding due to the 243 mothers' work schedule. 244 Fathers' Perceived Barriers to Children's Healthy Eating. 245 Fathers noted several barriers to their children's healthy eating, 246 including parents having limited time for cooking homemade 247 meals due to mothers working long hours and conflicting family 248 schedules. Additionally, some fathers spoke of children being 249 "picky eaters", and preferring foods such as chicken nuggets to 250 more healthy options. Some fathers noted that easy access to and 251 availability of inexpensive unhealthy foods that appealed to 252 children's taste was a main influence in their children's eating 253 habits. 254 Fathers Would like their Children's Eating Habits to Change. 255 When asked about goals for their children, several fathers noted 256 that they wanted their child to eat more healthfully and eat less 257 "junk" and "sugary" foods, such as candy and soda. Nonetheless, a 258 couple of fathers did not think this was feasible because their 259 children are exposed to and prefer these sorts of foods. Several 260 fathers noted that although their children were good eaters, they 261 would like their children to eat a greater variety of foods, including

262 more fruits and vegetables, and less processed foods. A few fathers 263 expressed concerns for their children's current weight status, and 264 alluded to wanting their children to lose weight. 265 Fathers Would Like to Change Their Eating Habits. A few 266 fathers explained that along with their children they also should eat 267 more healthfully. Several fathers stated that they needed to pay 268 attention to portion sizes and increase their fruit and vegetable 269 intake. Furthermore, several fathers noted that they would like to 270 lose weight and spoke of doing this by increasing their physical 271 activity and watching what they eat. 272 II. Beliefs, Attitudes and Practices Related to PA and SB 273 Fathers' Definition of Active Living. When queried as to what 274 active living means, about half of the participants provided a 275 definition that focused on PA, while most others provided a 276 broader definition that focused on being actively engaged in life, 277 being mentally active, participating in family activities, being 278 autonomous, and/or working. A few fathers provided a hybrid 279 definition that encompassed both being physically active and being engaged in life. A couple of fathers provided slightly different 280 281 definitions of active living for children and parents, by defining 282 active living for children as including interactions with friends as 283 well as opportunities for intellectual growth. 284 *Fathers' Believe PA is Important.* Across all FGDs, fathers 285 explained that they believed that PA is important for health and for

| 286 | maintaining a healthy weight. Several fathers also mentioned the |
|--|---|
| 287 | importance of PA for overall quality of life and mental health. |
| 288 | Joint Decisions About Family Activities. Most fathers, but not all |
| 289 | reported that decisions regarding family activities were made by |
| 290 | the family, with children, if old enough, being part of the decision- |
| 291 | making process. Some fathers explained that they were more |
| 292 | physically active than the mothers, who were more involved with |
| 293 | household chores and keeping a family schedule. A few fathers |
| 294 | noted that family activities sometimes unfold without planning and |
| 295 | may be based on what the children feel like doing. A couple of |
| 296 | fathers explained that they are usually active with their sons and |
| 297 | their wives with their daughters. |
| | C C |
| 298 | Fathers' Parenting Styles and PA Parenting Practices |
| | Fathers' Parenting Styles and PA Parenting Practices Fathers Are Permissive of Sedentary Activities for their Children |
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| 298 299 300 301 302 303 304 305 306 307 | 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 |

- 310 playing video games, using their electronic devices, and watching
- 311 TV and that they often spent time with their children watching
- 312 soccer matches on TV and playing video games. Fathers also
- 313 spoke of other sedentary activities that their daughters enjoyed,
- 314 such as playing with dolls and coloring.
- 315 Fathers Report Being Involved and Engaged in Their Children's
- 316 *PA*. Overall, fathers felt that they were more involved and engaged
- in their children's PA than with feeding their children.
- 318 Nevertheless, fathers reported that their children participated in
- both active and sedentary activities. They reported that their
- 320 children liked playing soccer, swimming, and playing outside. A
- 321 few fathers noted that school had a positive impact on their
- 322 children's physical activity levels by providing opportunities for
- 323 active play.
- 324 Fathers View Themselves as Physical Activity Role Models. Some
- 325 fathers recognized the importance of modeling PA, but noted that
- they were not always as physically active as they should
- 327 Nevertheless, a few fathers reported seeking out and being
- involved in adult sports programs in their communities.
- 329 Furthermore, a couple of fathers noted involving their children in
- household chores (e.g., yard work) that required their children to
- be active.
- 332 Fathers Perceptions of Barriers to Child Being Physically Active.
- 333 Not all fathers felt that there were barriers that prevented their

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334 children from being physically active. For example, several fathers 335 reported that they lived in safe neighborhoods that allowed their 336 children to play freely in their yards and in the neighborhood (e.g., 337 access to parks). However, others noted barriers to PA including 338 accessibility, cost of activities/programs, and cold weather. 339 Additional noted barriers included having to schedule activities 340 and having to work long hours. 341 Fathers' Desire to Be More Physically Active. A few fathers 342 reported that they should be more physically active and spoke of 343 being more active in the past. They noted that their reduced PA 344 had contributed to their gaining weight. Only a limited number of 345 fathers reported wanting their children to be more physical active. 346 DISCUSSION 347 The current literature examining Latinos' parenting and 348 their children's health-related behaviors has primarily focused on Latina mothers' beliefs, attitudes and practices related to their 349 young children's eating, PA, and SB.^{8,11,14-20,48-53} To date, there is a 350 351 paucity of information on these topics among Latino fathers. To 352 address this gap, the present qualitative study explored Latino 353 fathers' beliefs, attitudes and practices related to healthy eating, 354 PA, and SB of their young children among a predominantly 355 immigrant sample. 356 Although we purposively invited fathers with young 357 children (2-8 years) to participate in the study and developed the

| 358 | FGD guide to focus on food parenting practices and eating and PA |
|-----|--|
| 359 | habits of young children, it is worth noting that several fathers |
| 360 | discussed these topics within the context of the whole family, |
| 361 | including older and younger children. This is consistent with |
| 362 | previous qualitative research and indicates the importance of the |
| 363 | family within Latino communities. ^{7,13,17,52,53} It also suggests that |
| 364 | the family should be considered the unit of change, as prevention |
| 365 | of child overweight and obesity will not be successful without |
| 366 | considering parents and children as a complete unit. ^{7,13,17,52,53} |
| 367 | Recent trends suggest an increase in overall father |
| 368 | involvement in child care, with a few differences across racial and |
| 369 | ethnic groups of fathers. ^{21,23,25,26} Research on cultural models of |
| 370 | parenting practices suggests that Latinos value of <i>familism</i> (e.g., |
| 371 | family obligations, family reciprocity) is associated with behaviors |
| 372 | that encourage fulfilling familial roles, such as taking care of |
| 373 | children, which may lead to fathers being highly engaged in |
| 374 | parenting. ^{26,55-58} Studies conducted with Latino fathers in the U.S. |
| 375 | suggest that they spend more time with their children in shared |
| 376 | caregiving activities than White fathers. ⁵⁴⁻⁵⁸ A recent study with |
| 377 | Latino parents and their 3-12 years old children found that Latino |
| 378 | fathers spent more time in caregiving activities than fathers from |
| 379 | other ethnic groups. ⁵⁸ |
| 380 | Latino fathers participating in this study believed in the |
| 381 | importance of healthy eating for their children, themselves, and |
| | |

| 382 | their families. Nevertheless, the majority reported a number of |
|-----|--|
| 383 | familial practices including eating out, getting take out, etc., that |
| 384 | have been linked to unhealthy eating habits and increased risk of |
| 385 | overweight and obesity among children. ^{37,38} Moreover, several |
| 386 | fathers reported a number of unhealthy personal eating habits |
| 387 | (ignoring portion size, making unhealthy food choices, etc.) that |
| 388 | may influence their children's eating behaviors, which most fathers |
| 389 | wished would change. This finding is congruent with studies |
| 390 | involving Latina mothers, and underscores the importance of |
| 391 | childhood obesity prevention interventions to address parents' own |
| 392 | eating behaviors. ^{11,13,14,16,17} Given the importance of parental |
| 393 | modeling in the development of children's eating behaviors, |
| 394 | parenting interventions should incorporate opportunities to engage |
| 395 | fathers and promote changes in fathers' own eating habits and food |
| 396 | behaviors. ^{17,59-66} |
| 397 | Contrary to recent studies conducted with Caucasian, |
| 398 | middle-income fathers, most Latino fathers participating in our |
| 399 | study reported that they had limited responsibilities for organizing |
| 400 | child's meals and deciding what foods to feed the child. ⁵⁹⁻⁶⁵ |
| 401 | Our study found that Latino fathers appeared to allow their child's |
| 402 | mother to make most decisions regarding their child's healthy |
| 403 | eating and that they were more actively involved in their children's |
| 404 | PA behaviors. This finding may reflect traditional parenting roles, |
| 405 | with mothers bearing most responsibilities for child feeding. |
| | |

| 406 | Nevertheless, a few fathers reported that they shared some child |
|-----|---|
| 407 | feeding responsibilities with the mother, especially when the |
| 408 | mother worked long hours. ³⁷ |
| 409 | Although more research is needed, our findings suggest |
| 410 | that Latino fathers may be more interested in participating in |
| 411 | interventions to promote PA and be less enticed to participate in |
| 412 | interventions that focus solely on healthy eating. This should be |
| 413 | taken into consideration when designing obesity prevention |
| 414 | interventions involving Latino fathers. Future studies should |
| 415 | continue to explore Latino fathers' roles and responsibilities for |
| 416 | child feeding, and associations with children's eating habits and |
| 417 | weight status. This information will be important for the design of |
| 418 | obesity prevention interventions targeting Latino families that |
| 419 | include fathers. |
| 420 | Consistent with previous research, ^{67,68} a few fathers in the |
| 421 | current study expressed concerns for their children's weight status, |
| 422 | and alluded to the fact that they like their children to lose weight. |
| 423 | Appropriate assessment of a child's weight, followed by |
| 424 | appropriate weight management strategies is important for the |
| 425 | prevention of obesity during childhood, as parents who |
| 426 | misperceive their children's weight status are less likely to engage |
| 427 | in interventions to reduce risk of pediatric obesity. ^{67,68} Previous |
| 428 | studies with Latino mothers and fathers indicate that both parents |
| 429 | are likely to misperceive their children's weight status, mostly |

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underestimating their weight status.^{37,67,68} Future research should 430 431 further explore Latino fathers' perceptions of their children's 432 weight status and how their perceptions and attitudes towards their 433 child's weight impact their food parenting practices and children's 434 weight status. This information is important as evidence suggests 435 parents who report more concerns about their child becoming 436 overweight or obese also report more controlling food parenting 437 practices (what and how much their child eats) that may have unintentional negative impacts (e.g., overly restricting food 438 access).^{10,32,48,60,62} 439 440 Although our findings revealed that Latino fathers appeared 441 to be more involved and engaged in children's PA than eating and 442 feeding, we also found that fathers engaged in sedentary activities 443 with their children, appeared permissive of children's SB, and 444 struggled to set limits on children's screen-time. These findings are 445 important given evidence of the influence of paternal parenting styles and practices on children's PA and screen-viewing 446 behaviors.⁶⁹⁻⁷² Previous research suggests that parental attitudes 447 448 towards and use of screen time including parents' own screen-449 viewing habits, using screen-viewing as a form of childcare (or 450 babysitter), viewing screen-time as a source of education and as a 451 means of child relaxation result in permissive styles toward their children screen-viewing.⁶⁹⁻⁸² Furthermore, our findings indicate 452 453 that Latino fathers' ability to model healthy physical activity

454 behaviors for their children may be limited by their lack of self-455 efficacy to participate in these behaviors themselves and indicate 456 that interventions should focus not only on fathers' styles and 457 practices, but also on helping fathers increase their self-efficacy for 458 these behaviors. Existing research evidence combined with 459 finding from this current study indicate the need for future research 460 to further examine fathers' attitudes and personal behaviors, as 461 well as the influence of Latino fathers' parenting styles and 462 practices on their children's PA and SB. This information will be 463 critical for designing interventions to decrease Latino children's 464 screen-time and sedentary behaviors. 465 Moreover, study findings also suggest possible gender 466 differences in fathers' report of their daughters and sons' PA and 467 SB, as well as their involvement and engagement in activities with 468 their sons, and daughters. Despite the small number of fathers who 469 reported such differences, this is worth exploring further in future 470 qualitative and quantitative research. 471 In conclusion, although the role of fathers in the promotion 472 of their children's eating, PA, and SB is a growing area of 473 research, there is still limited information available on the role of minority fathers including Latinos.^{17,36-40} This current study 474 475 provides insights into the role of Latino fathers in promoting their 476 children's eating, PA, and SB behaviors within the family 477 environment and contributes information that allow for a more

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| 478 | complete picture of how Latino parents view eating and PA |
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| 479 | environments for their children. Given the central role of the |
| 480 | family in the Latino culture, effective interventions targeting the |
| 481 | promotion of healthy eating, PA, SB and ultimately the prevention |
| 482 | of child obesity and related chronic diseases, should take into |
| 483 | account the role of fathers. ^{13,17,36-39} |
| 484 | Existing research suggests obesity prevention interventions |
| 485 | designed for Latino children and families should target multiple |
| 486 | behaviors (eating, PA, SB, sleep), be family-focused and involve |
| 487 | both parents. ⁸³⁻⁸⁹ Research also suggests the importance of the |
| 488 | intervention context (particularly, family constraints, ethnicity and |
| 489 | parental motivation) in changing behaviors Furthermore, |
| 490 | interventions need to consider adapting program content to |
| 491 | consider cultural preferences. ⁸³⁻⁸⁹ In the case of Latinos, the use of |
| 492 | culturally appropriate lay leaders (promotoras) to deliver |
| 493 | interventions has shown to be efficacious. The present study adds |
| 494 | to the existing literature and can inform the design of future |
| 495 | research and the development of parenting and family-based |
| 496 | interventions targeting Latino families. ^{80,81} |
| 497 | Study findings should be considered in light of some |
| 498 | limitations. Findings are based on a nonrandom, purposeful, and |
| 499 | relatively small sample of low-income, Latino fathers recruited |
| 500 | from community-based organizations located in a few cities in RI. |
| 501 | Selection bias may have resulted in fathers having a heightened |

Running Head: Latino fathers beliefs and practices

| 502 | interest and awareness about eating, PA, and SB. Furthermore, |
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| 503 | given that our recruitment strategy included recruiting participants |
| 504 | from the WIC clinics, it is possible that fathers might have been |
| 505 | more inclined to believe that mothers were more knowledgeable of |
| 506 | nutrition because of their participation in the WIC program. Future |
| 507 | research should utilize both qualitative and quantitative methods |
| 508 | that address these study limitations by using different recruiting |
| 509 | methods, and exploring Latino fathers' beliefs, attitudes and |
| 510 | practices related to eating, PA, and SB from other communities |
| 511 | across the U.S. Nevertheless, this qualitative study provided deep |
| 512 | insight into primarily immigrant, Latino fathers' personal beliefs, |
| 513 | attitudes, and practices related to child eating, PA, and SB and |
| 514 | contributes new information to the current scant literature on |
| 515 | Latino fathers and prevention of childhood obesity. |

516 CONCLUSIONS

The present study provides new information on the beliefs 517 518 and child feeding and PA practices of Latino fathers, most of 519 whom were immigrants. The results may provide important targets 520 for interventions aimed at promoting children's healthy eating and 521 PA practices involving Latino fathers. Given the importance of the 522 family in Latino culture, and indication from the literature of the 523 importance of the family context in the development of early 524 healthy eating and PA habits, future research should further explore the role of fathers' parenting styles and practices in the 525

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| 526 | development and support of children's early eating and PA habits. |
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| 527 | This information is needed to identify risk factors amenable to |
| 528 | interventions and to design culturally appropriate parenting and |
| 529 | family-based interventions targeting the home environment of |
| 530 | Latino children and designed to meet the specific needs of this |
| 531 | ethnic group. |
| 532 533 | Abbreviations |
| 534 | US: United States; PA: physical activity; SB: sedentary behaviors; RI: |
| 535 | Rhode Island; TV: television; WIC: Special Supplemental Nutrition |
| 536 | Program for Women, Infants and Children; FGD: focus group |
| 537 | discussions; SASH: Short Acculturation Scale for Hispanics; GED: |
| 538 | General Educational Diploma. |
| 539 540 541 542 543 544 545 546 547 546 547 548 549 550 551 552 | General Educational Diploma. |

555 **REFERENCES**

| 556 | | |
|-----|----|---|
| 557 | 1. | Ennis, S., Rios-Vargas, M., & Albert, N. The Hispanic |
| 558 | | population: 2010. 2011. Retrieved from |
| 559 | | https://www.census.gov/prod/cen2010/briefs/c2010br- |
| 560 | | 04.pdf. |
| 561 | 2. | Ogden CL, Carroll MD, Lawman HG, Fryar CD, Kruszon- |
| 562 | | Moran D, Kit BK, Flegal KM |
| 563 | | Trends in Obesity Prevalence Among Children and |
| 564 | | Adolescents in the United States, 1988-1994 Through |
| 565 | | 2013-2014. JAMA. 2016 Jun 7;315(21):2292-9. doi: |
| 566 | | 10.1001/jama.2016.6361. |
| 567 | 3. | Singh GK, Siahpush M, Hiatt RA, et al. Dramatic increases |
| 568 | | in obesity and overweight prevalence and body mass index |
| 569 | | among ethnic-immigrant and social class groups in the |
| 570 | | United States, 1976–2008. J Community |
| 571 | | Health. 2011;36(1):94–110. doi: 10.1007/s10900-010- |
| 572 | | 9287-9. |
| 573 | 4. | Lindsay AC, Sussner KM, Kim J, Gortmaker S. The role of |
| 574 | | parents in preventing childhood obesity. Future Child. 2006 |
| 575 | | Spring;16(1):169-86. |
| 576 | 5. | Lindsay AC, Greaney ML, Wallington SF, Mesa T, Salas |
| 577 | | CF. A review of early influences on physical activity and |
| 578 | | sedentary behaviors of preschool-age children in high- |
| 579 | | income countries. J Spec Pediatr Nurs. 2017 Apr 13. doi: |
| 580 | | 10.1111/jspn.12182. |
| 581 | 6. | Lumeng JC, Taveras EM, Birch L, Yanovski SZ. |
| 582 | | Prevention of obesity in infancy and early childhood: a |
| 583 | | National Institutes of Health workshop. JAMA Pediatr. |
| 584 | | 2015;169(5):484-90.doi: |
| 585 | | 10.1001/jamapediatrics.2014.3554. |
| 586 | 7. | Ochoa A, Berge JM. Home Environmental Influences on |
| 587 | | Childhood Obesity in the Latino Population: A Decade |
| 588 | | Review of Literature. J Immigr Minor Health. 2017 |
| 589 | | Apr;19(2):430-447. doi: 10.1007/s10903-016-0539-3. |

| 590 | 8. Schrempft S, van Jaarsveld CH, Fisher A, Fildes A, Wardle |
|-----|--|
| 591 | J. Maternal characteristics associated with the obesogenic |
| 592 | quality of the home environment in early childhood. |
| 593 | Appetite. 2016 Dec 1;107:392-397. doi: |
| 594 | 10.1016/j.appet.2016.08.108. |
| 595 | 9. Schrempft S, van Jaarsveld CH, Fisher A, Wardle J. The |
| 596 | Obesogenic Quality of the Home Environment: |
| 597 | Associations with Diet, Physical Activity, TV Viewing, and |
| 598 | BMI in Preschool Children. PLoS One. 2015 Aug |
| 599 | 6;10(8):e0134490. doi: 10.1371/journal.pone.0134490. |
| 600 | 10. Sleddens EF, Kremers SP, Stafleu A, Dagnelie PC, De |
| 601 | Vries NK, Thijs C. Food parenting practices and child |
| 602 | dietary behavior. Prospective relations and the moderating |
| 603 | role of general parenting. Appetite. 2014 Aug;79:42-50. |
| 604 | doi: 10.1016/j.appet.2014.04.004. Epub 2014 Apr 13. |
| 605 | 11. Conlon BA, McGinn AP, Lounsbury DW, Diamantis PM, |
| 606 | Groisman-Perelstein AE, Wylie-Rosett J, Isasi CR. The |
| 607 | Role of Parenting Practices in the Home Environment |
| 608 | among Underserved Youth. Child Obes. 2015 |
| 609 | Aug;11(4):394-405. doi: 10.1089/chi.2014.0093. |
| 610 | 12. Birch LL, Davison KK. Family environmental factors |
| 611 | influencing the developing behavioral controls of food |
| 612 | intake and childhood overweight. Pediatr Clin North |
| 613 | Am. 2001 Aug;48(4):893-907. |
| 614 | 13. Lindsay AC, Sussner KM, Greaney ML, Peterson KE. |
| 615 | Latina mothers' beliefs and practices related to weight |
| 616 | status, feeding, and the development of child overweight. |
| 617 | Public Health Nurs. 2011 Mar-Apr;28(2):107-18. doi: |
| 618 | 10.1111/j.1525-1446.2010.00906.x. |
| 619 | 14. Silva Garcia K, Power TG, Fisher JO, O'Connor TM, |
| 620 | Hughes SO. Latina mothers' influences on child appetite |
| 621 | regulation. Appetite. 2016 Aug 1;103:200-7. doi: |
| 622 | 10.1016/j.appet.2016.04.013. |
| 623 | 15. Murashima M, Hoerr SL, Hughes SO, Kaplowitz SA. |
| 624 | Feeding behaviors of low-income mothers: directive |
| 625 | control relates to a lower BMI in children, and a |
| | |

| 626 | nondirective control relates to a healthier diet in |
|-----|---|
| 627 | preschoolers. Am J Clin Nutr. 2012 May;95(5):1031-7. doi: |
| 628 | 10.3945/ajcn.111.024257. |
| 629 | 16. James KS, Connelly CD, Rutkowski E, McPherson D, |
| 630 | Gracia L, Mareno N, Zirkle D. Family-based weight |
| 631 | management with Latino mothers and children. J Spec |
| 632 | Pediatr Nurs. 2008 Oct;13(4):249-62. |
| 633 | 17. Lora KR, Cheney M, Branscum P. Hispanic Mothers' |
| 634 | Views of the Fathers' Role in Promoting Healthy Behaviors |
| 635 | at Home: Focus Group Findings. J Acad Nutr Diet. 2017 |
| 636 | Jun;117(6):914-922. doi: 10.1016/j.jand.2017.01.005. |
| 637 | 18. Thompson DA, Polk S, Cheah CS, Vandewater EA, |
| 638 | Johnson SL, Chrismer MC, Tschann JM. |
| 639 | Maternal Beliefs and Parenting Practices Regarding Their |
| 640 | Preschool Child's Television Viewing: An Exploration in a |
| 641 | Sample of Low-Income Mexican-Origin Mothers. Clin |
| 642 | Pediatr (Phila). 2015 Aug;54(9):862-70. doi: |
| 643 | 10.1177/0009922815574074. |
| 644 | 19. Matheson DM, Robinson TN, Varady A, Killen JD. Do |
| 645 | Mexican-American mothers' food- |
| 646 | related parenting practices influence their children's weight |
| 647 | and dietary intake? J Am Diet Assoc. 2006 |
| 648 | Nov;106(11):1861-5. |
| 649 | 20. Sosa ET. Mexican American mothers' perceptions of |
| 650 | childhood obesity: a theory-guided systematic literature |
| 651 | review. Health Educ Behav. 2012 Aug;39(4):396-404. doi: |
| 652 | 10.1177/1090198111398129. |
| 653 | 21. Hofferth S, Lee Y. Family structure and trends in |
| 654 | US fathers' time with children, 2003-2013. Fam |
| 655 | Sci. 2015;6(1):318-329. |
| 656 | 22. Bianchi SM. Maternal employment and time with children. |
| 657 | Dramatic change or surprising continuity? Demography, 37 |
| 658 | (4) (2000), pp. 401–414 |
| 659 | 23. Yeung WJ, Sandberg JF, Davis-Kean PE, Hofferth SL. |
| 660 | Children's time with fathers in intact families. Journal of |
| 661 | Marriage and Family, 63 (1) (2001), pp. 136–154 |

| (()) | 24 Fainhang MF. The internal structure and eastering entert |
|------------|---|
| 662 | 24. Feinberg ME. The internal structure and ecological context |
| 663 | of coparenting. A framework for research and intervention. |
| 664 ((5 | Parenting: Science and Practice, 3 (2) (2003), pp. 95–131 |
| 665 | 25. Raley S, Bianchi SM, Wang W. When Do Fathers Care? |
| 666 | Mothers' Economic Contribution |
| 667 | and Fathers' Involvement in Child Care. AJS. 2012 |
| 668 | Mar;117(5):1422-1459. |
| 669 | 26. Cabrera NJ, Hofferth SL, Chae S. Patterns and predictors of |
| 670 | father-infant engagement across race/ethnic groups. Early |
| 671 | Child Res Q. 2011;26(3):365-375. |
| 672 | 27. Davison KK, Gicevic S, Aftosmes-Tobio A, Ganter |
| 673 | C, Simon CL, Newlan S, Manganello JA. Fathers' |
| 674 | Representation in Observational Studies on Parenting and |
| 675 | Childhood Obesity: A Systematic Review and Content |
| 676 | Analysis. Am J Public Health. 2016 Nov;106(11):e14-e21. |
| 677 | 28. Khandpur N, Blaine RE, Fisher JO, Davison KK. Fathers' |
| 678 | child feeding practices: a review of the evidence. Appetite. |
| 679 | 2014 Jul;78:110-21. doi: 10.1016/j.appet.2014.03.015. |
| 680 | 29. Freeman E, Fletcher R, Collins CE, Morgan PJ, Burrows T, |
| 681 | Callister R. Preventing and treating childhood obesity: time |
| 682 | to target fathers. Int J Obes (Lond). 2012;36(1):12-15. |
| 683 | 30. Fraser J, Skouteris H, McCabe M, Ricciardelli LA, |
| 684 | Milgrom J, Baur LA. Paternal influences on children's |
| 685 | weight gain. A systematic review. Fathering: A Journal of |
| 686 | Theory, Research, and Practice about Men as Fathers, 9 (3) |
| 687 | (2011), pp. 252–267 |
| 688 | 31. Harris TS, Ramsey M. Paternal modeling, household |
| 689 | availability, and paternal intake as predictors of fruit, |
| 690 | vegetable, and sweetened beverage consumption among |
| 691 | African American children. Appetite. 2015 Feb;85:171-7. |
| 692 | doi: 10.1016/j.appet.2014.11.008. |
| 693 | 32. Vollmer RL, Adamsons K, Foster JS, Mobley AR. |
| 694 | Association of fathers' feeding practices and feeding style |
| 695 | on preschool age children's diet quality, eating behavior |
| 696 | and body mass index. Appetite. 2015 Jun;89:274-81. doi: |
| 697 | 10.1016/j.appet.2015.02.021. |
| | ······································ |

| 698 | 33. Khandpur N, Charles J, Blaine RE, Blake C, Davison K. |
|-----|---|
| 699 | Diversity in fathers' food parenting practices: A qualitative |
| 700 | exploration within a heterogeneous sample. Appetite. 2016 |
| 701 | Jun 1;101:134-45. doi: 10.1016/j.appet.2016.02.161. |
| 702 | 34. Mallan KM, Daniels LA, Nothard M, Nicholson JM, |
| 703 | Wilson A, Cameron CM, Scuffham PA, Thorpe K. Dads at |
| 704 | the dinner table. A cross-sectional study of Australian |
| 705 | fathers' child feeding perceptions and practices. Appetite. |
| 706 | 2014 Feb;73:40-4. |
| 707 | 35. Morgan PJ, Collins CE, Plotnikoff RC, Callister R, |
| 708 | Burrows T, Fletcher R, Okely AD, Young MD, Miller A, |
| 709 | Lloyd AB, Cook AT, Cruickshank J, Saunders KL, Lubans |
| 710 | DR. The 'Healthy Dads, Healthy Kids' community |
| 711 | randomized controlled trial: a community-based healthy |
| 712 | lifestyle program for fathers and their children. |
| 713 | 36. Guerrero AD, Chu L, Franke T, Kuo AA. Father |
| 714 | Involvement in Feeding Interactions with Their Young |
| 715 | Children. Am J Health Behav. 2016 Mar;40(2):221-30. doi: |
| 716 | 10.5993/AJHB.40.2.7. |
| 717 | 37. Parada H, Ayala GX, Horton LA, Ibarra L, Arredondo EM. |
| 718 | Latino fathers' feeding-related parenting strategies |
| 719 | on children's eating. Ecol Food Nutr. 2016 May- |
| 720 | Jun;55(3):292-307. doi: 10.1080/03670244.2016.1161616. |
| 721 | 38. Penilla C, Tschann JM, Deardorff J, Flores E, Pasch LA, |
| 722 | Butte NF, Gregorich SE, Greenspan LC, Martinez SM, |
| 723 | Ozer E. Fathers' feeding practices and children's weight |
| 724 | status in Mexican American families. Appetite. 2017 Oct |
| 725 | 1;117:109-116. doi: 10.1016/j.appet.2017.06.016. Epub |
| 726 | 2017 Jun 17. |
| 727 | 39. Turner BJ, Navuluri N, Winkler P, Vale S, Finley E. A |
| 728 | qualitative study of family healthy lifestyle behaviors |
| 729 | of Mexican-American and Mexican immigrant fathers and |
| 730 | mothers. J Acad Nutr Diet. 2014 Apr;114(4):562-9. doi: |
| 731 | 10.1016/j.jand.2013.12.010. |
| 732 | 40. Lora KR, Hubbs-Tait L, Ferris AM, Wakefield D. African- |
| 733 | American and Hispanic children's beverage intake: |
| | |

| 734 735 736 737 738 730 | Differences in associations with desire to drink, fathers' feeding practices, and weight concerns. Appetite. 2016 Dec 1;107:558-567. doi: 10.1016/j.appet.2016.09.012. 41. Thompson DA, Vandewater EA, Matson PA, Tschann JM. Young low-income ethnic minority children watch less television when their methers regulate what they are |
|--|--|
| 739 | television when their mothers regulate what they are |
| 740 741 | viewing.Acta Paediatr. 2015 Mar;104(3):300-5. doi: 10.1111/apa.12879. |
| 741 | 42. Lindsay AC, Greaney ML, Wallington SF, Wright JA, |
| 742 | Hunt AT. Depressive symptoms and length of U.S. |
| 743 744 | residency are associated with obesity among low-income |
| 744 | Latina mothers: a cross-sectional analysis. Int J Environ |
| 743 746 | Res Public Health. 2017 Aug 2;14(8). pii: E869. doi: |
| 747 | 10.3390/ijerph14080869. |
| 748 | 43. Kidd PS, Parshall MB. Getting the focus and the group: |
| 749 | enhancing analytical rigor in focus group research. <i>Qual</i> |
| 750 | Health Res. 2000;10(3):293-308. |
| 751 | 44. Miles, M., & Huberman, A. (1994). <i>Qualitative data</i> |
| 752 | analysis (2nd ed.). Thousand Oaks, CA: Sage. |
| 753 | 45. Marin, G., Sabogal, F., Marin, B. V., Otero-Sabogal, R., & |
| 754 | Perez-Stable, E.J. (1987). Development of a short |
| 755 | acculturation scale for Hispanics. Hispanic Journal of |
| 756 | Behavioral Sciences, 9(2), 183-205. |
| 757 | 46. Ritchie J, Spencer L. In: Analysing Qualitative |
| 758 | Data. Bryman A, Burgess R, editor. London: Routledge; |
| 759 | 1994. Qualitative data analysis for applied policy research. |
| 760 | 47. Vaismoradi M, Turunen H, Bondas T. Content analysis and |
| 761 | thematic analysis: implications for conducting |
| 762 | a qualitative descriptive study. Nurs Health Sci. |
| 763 | 2013;15(3):398-405. doi:10.1111/nhs.12048 |
| 764 | 48. Tschann JM, Martinez SM, Penilla C, Gregorich SE, Pasch |
| 765 | LA, de Groat CL, Flores E, Deardorff J, Greenspan LC, |
| 766 | Butte NF. Parental feeding practices and child weight status |
| 767 | in Mexican-American families: a longitudinal analysis. Int |
| 768 | J Behav Nutr Phys Act. 2015 May 20;12:66. doi: |
| 769 | 10.1186/s12966-015-0224-2. |

| 770 | 49. Mejia de Grubb MC, Salemi JL, Gonzalez SJ, Sanderson |
|-----|---|
| 771 | M, Zoorob RJ, Mkanta W, Levine RS. Parenting style and |
| 772 | perceptions of children's weight among US Hispanics: a |
| 773 | qualitative analysis. Health Promot Int. 2016 Aug 4. pii: |
| 774 | daw050. |
| 775 | 50. Santiago-Torres M, Adams AK, Carrel AL, LaRowe TL, |
| 776 | Schoeller DA. Home food availability, parental dietary |
| 777 | intake, and familial eating habits influence the diet quality |
| 778 | of urban Hispanic children. Child Obes. 2014 |
| 779 | Oct;10(5):408-15. doi: 10.1089/chi.2014.0051. |
| 780 | 51. Olvera N, Power TG. Brief report: parenting styles |
| 781 | and obesity in Mexican American children: a longitudinal |
| 782 | study. J Pediatr Psychol. 2010 Apr;35(3):243-9. doi: |
| 783 | 10.1093/jpepsy/jsp071. |
| 784 | 52. Lindsay AC, Sussner KM, Greaney ML, Peterson KE. |
| 785 | Influence of social context on eating, physical activity, and |
| 786 | sedentary behaviors of Latina mothersand their preschool- |
| 787 | age children. Health Educ Behav. 2009 Feb;36(1):81-96. |
| 788 | doi: 10.1177/1090198107308375. Epub 2008 Aug 8. |
| 789 | 53. Lindsay AC, Sussner KM, Greaney ML, Peterson KE. |
| 790 | Latina mothers' beliefs and practices related to weight |
| 791 | status, feeding, and the development of child overweight. |
| 792 | Public Health Nurs. 2011 Mar-Apr;28(2):107-18. doi: |
| 793 | 10.1111/j.1525-1446.2010.00906.x. Epub 2010 Nov 24. |
| 794 | 54. Mirande A. Ethnicity and fatherhood. In: Bozett FW, |
| 795 | Hanson S, editors. Fatherhood and families in cultural |
| 796 | context: Focus on men. New York. NY: Springer; 1991. pp. |
| 797 | 53-82. |
| 798 | 55. Mirande JL. Hombres y machos: Masculinity and Latino |
| 799 | culture. Boulder, CO: Westview; 1997. |
| 800 | 56. Roopnarine JL, Ahmeduzzaman M. Puerto Rican fathers' |
| 801 | involvement with their preschool-age children. Hispanic |
| 802 | Journal of Behavioral Sciences. 1993;15(1):96–107. |
| 803 | 57. Toth JF, Xu X. Ethnic and cultural diversity in fathers' |
| 804 | involvement: A racial/ethnic comparison of African |
| | |

| 805 | American, Hispanic, and White fathers. Youth & |
|-----|---|
| 806 | Society. 1999;31(1):76–99. |
| 807 | 58. Hofferth SL. Race/ethnic differences in father engagement |
| 808 | in two-parent families: Culture, context, or |
| 809 | economy. Journal of Family Issues. 2003;24:185–216. |
| 810 | 59. Harris TS, Ramsey M. Paternal modeling, household |
| 811 | availability, and paternal intake as predictors of fruit, |
| 812 | vegetable, and sweetened beverage consumption among |
| 813 | African American children. Appetite. 2015 Feb;85:171-7. |
| 814 | doi: 10.1016/j.appet.2014.11.008. |
| 815 | 60. Vollmer RL, Adamsons K, Foster JS, Mobley AR. |
| 816 | Association of fathers' feeding practices and feeding style |
| 817 | on preschool age children's diet quality, eating behavior |
| 818 | and body mass index. Appetite. 2015 Jun;89:274-81. doi: |
| 819 | 10.1016/j.appet.2015.02.021. |
| 820 | 61. Khandpur N, Charles J, Blaine RE, Blake C, Davison K. |
| 821 | Diversity in fathers' food parenting practices: A qualitative |
| 822 | exploration within a heterogeneous sample. Appetite. 2016 |
| 823 | Jun 1;101:134-45. doi: 10.1016/j.appet.2016.02.161. |
| 824 | 62. Mallan KM, Daniels LA, Nothard M, Nicholson JM, |
| 825 | Wilson A, Cameron CM, Scuffham PA, Thorpe K. Dads at |
| 826 | the dinner table. A cross-sectional study of Australian |
| 827 | fathers' child feeding perceptions and practices. Appetite. |
| 828 | 2014 Feb;73:40-4. |
| 829 | 63. Morgan PJ, Collins CE, Plotnikoff RC, Callister R, |
| 830 | Burrows T, Fletcher R, Okely AD, Young MD, Miller A, |
| 831 | Lloyd AB, Cook AT, Cruickshank J, Saunders KL, Lubans |
| 832 | DR. The 'Healthy Dads, Healthy Kids' community |
| 833 | randomized controlled trial: a community-based healthy |
| 834 | lifestyle program for fathers and their children. Prev Med. |
| 835 | 2014 Apr;61:90-9. doi: 10.1016/j.ypmed.2013.12.019. |
| 836 | 64. Webber KJ, Loescher LJ. A systematic review of parent |
| 837 | role modeling of healthy eating and physical activity for |
| 838 | their young African American children. J Spec Pediatr |
| 839 | Nurs. 2013; 18(3):173-88. doi: 10.1111/jspn.12033. |

| 840 | 65. Tibbs T, Haire-Joshu D, Schechtman KB, Brownson RC, |
|-----|---|
| 841 | Nanney MS, Houston C, Auslande W. The relationship |
| 842 | between parental modeling, eating patterns, and dietary |
| 843 | intake among African-American parents. J Am Diet Assoc. |
| 844 | 2001; 101(5):535-41. |
| 845 | 66. Arredondo EM, Elder JP, Ayala GX, Campbell N, Baquero |
| 846 | B, Duerksen S. Is parenting style related to children's |
| 847 | healthy eating and physical activity in Latino families? |
| 848 | Health Educ Res. 2006 Dec;21(6):862-71. |
| 849 | 67. Myers S, Vargas Z. Parental perceptions of the preschool |
| 850 | obese child. Pediatr Nurs. 2000 Jan-Feb;26(1):23-30. |
| 851 | 68. Gauthier KI, Gance-Cleveland B. Hispanic Parental |
| 852 | Perceptions of Child Weight in Preschool-Aged Children: |
| 853 | An Integrated Review. Child Obes. 2015 Oct;11(5):549-59. |
| 854 | doi: 10.1089/chi.2014.0152. Epub 2015 Jul 28. |
| 855 | 69. Jago R, Thompson JL, Sebire SJ, Wood L, Pool L, Zahra |
| 856 | J, Lawlor DA. Cross-sectional associations between the |
| 857 | screen-time of parents and young children: differences by |
| 858 | parent and child gender and day of the week. Int J Behav |
| 859 | Nutr Phys Act. 2014 Apr 23;11:54. doi: 10.1186/1479- |
| 860 | 5868-11-54. |
| 861 | 70. Jago R, Zahra J, Edwards MJ, Kesten JM, Solomon-Moore |
| 862 | E, Thompson JL, Sebire SJ. Managing the screen-viewing |
| 863 | behaviours of children aged 5-6 years: a qualitative analysis |
| 864 | of parental strategies. BMJ Open. 2016 Mar |
| 865 | 1;6(3):e010355. doi: 10.1136/bmjopen-2015-010355. |
| 866 | 71. Jago R, Sebire SJ, Lucas PJ, Turner KM, Bentley |
| 867 | GF, Goodred JK, Stewart-Brown S, Fox KR. Parental |
| 868 | modelling, media equipment and screen-viewing among |
| 869 | young children: cross-sectional study. BMJ Open. 2013 |
| 870 | Apr 24;3(4). pii: e002593. doi: 10.1136/bmjopen-2013- |
| 871 | 002593. Print 2013. |
| 872 | 72. Lloyd AB, Lubans DR, Plotnikoff RC, Collins CE, Morgan |
| 873 | PJ. Maternal and paternal parenting practices and their |
| 874 | influence on children's adiposity, screen-time, diet and |
| | |

| 875 | physical activity. Appetite. 2014a Aug;79:149-57. doi: |
|-----|---|
| 876 | 10.1016/j.appet.2014.04.010. |
| 877 | 73. McClendon ME, Umstattd Meyer MR, Ylitalo KR, Sharkey |
| 878 | JR. Physical Activity of Mexican-Heritage Youth During |
| 879 | the Summer and School-Year: The Role |
| 880 | of Parenting Strategies. J Community Health. 2017 May 8. |
| 881 | doi: 10.1007/s10900-017-0358-z. |
| 882 | 74. Rodríguez-Oliveros G, Haines J, Ortega-Altamirano D, |
| 883 | Power E, Taveras EM, González-Unzaga MA, Reyes- |
| 884 | Morales H. Obesity determinants in Mexican preschool |
| 885 | children: parental perceptions and practices related to |
| 886 | feeding and physical activity. Arch Med Res. 2011; |
| 887 | 42(6):532-9. doi: 10.1016/j.arcmed.2011.10.006. |
| 888 | 75. Asplund KM, Kair LR, Arain YH, Cervantes M, Oreskovic |
| 889 | NM, Zuckerman KE. Early Childhood Screen Time and |
| 890 | Parental Attitudes Toward Child Television Viewing in a |
| 891 | Low-Income Latino Population Attending the Special |
| 892 | Supplemental Nutrition Program for Women, Infants, and |
| 893 | ChildrenChild Obes. 2015 Oct;11(5):590-9. doi: |
| 894 | 10.1089/chi.2015.0001. |
| 895 | 76. O'Connor TM, Cerin E, Lee RE, Parker N, Chen TA, |
| 896 | Hughes SO, Mendoza JA, Baranowski T. Environmental |
| 897 | and cultural correlates of physical |
| 898 | activity parenting practices among Latino parents with |
| 899 | preschool-aged children: NiñosActivos. BMC Public |
| 900 | Health. 2014 Jul 10;14:707. doi: 10.1186/1471-2458-14- |
| 901 | 707. |
| 902 | 77. O'Connor TM, Chen TA, Baranowski J, et al. Physical |
| 903 | activity and screen-media-related parenting practices have |
| 904 | different associations with children's objectively measured |
| 905 | physical activity. Child Obes 2013;9:446–453. |
| 906 | 78. Jago R, Sebire SJ, Lucas PJ, Turner KM, Bentley |
| 907 | GF, Goodred JK, Stewart-Brown S, Fox KR. Parental |
| 908 | modelling, media equipment and screen-viewing among |
| 909 | young children: cross-sectional study. BMJ Open. 2013 |
| | |

| 010 | Ame 24.2(4) mill 2002502 dais 10.1126/humianan 2012 |
|------------------------|---|
| 910 911 | Apr 24;3(4). pii: e002593. doi: 10.1136/bmjopen-2013- 002593. |
| 911 912 | 79. Jago R, Sebire SJ, Edwards MJ, Thompson JL. Parental TV |
| 912 913 | viewing, parental self-efficacy, media equipment and TV |
| 913 914 | viewing, parental sen-enreacy, media equipment and 1 v viewing among preschool children. Eur J Pediatr. 2013 |
| 91 4 915 | Nov;172(11):1543-5. doi: 10.1007/s00431-013-2077-5. |
| 915 916 | Epub 2013 Jun 29. |
| 917 | 80. Jago R, Wood L, Zahra J, Thompson JL, Sebire SJ. |
| 918 | Parental control, nurturance, self-efficacy, and screen |
| 919 | viewing among 5- to 6-year-old children: a cross-sectional |
| 920 | mediation analysis to inform potential behavior change |
| 921 | strategies. Child Obes. 2015 Apr;11(2):139-47. doi: |
| 922 | 10.1089/chi.2014.0110. Epub 2015 Jan 13. |
| 923 | 81. Johnson L, Chen TA, Hughes SO, O'Connor TM. The |
| 924 | association of parent's outcome expectations for child TV |
| 925 | viewing with parenting practices and child TV viewing: an |
| 926 | examination using path analysis. Int J Behav Nutr Phys |
| 927 | Act. 2015 May 28;12:70. doi: 10.1186/s12966-015-0232-2. |
| 928 | 82. Pearson N, Salmon J, Crawford D, Campbell K, Timperio |
| 929 | A. Are parental concerns for child TV viewing associated |
| 930 | with child TV viewing and the home sedentary |
| 931 | environment? Int J Behav Nutr Phys Act. 2011 Sep |
| 932 | 27;8:102. doi: 10.1186/1479-5868-8-102. |
| 933 | 83. Crespo NC, Elder JP, Ayala GX, Slymen DJ, Campbell |
| 934 | NR, Sallis JF, McKenzie TL, Baquero B, Arredondo EM. |
| 935 | Results of a multi-level intervention to prevent and control |
| 936 | childhood obesity among Latino children: the Aventuras |
| 937 | Para Niños Study. Ann Behav Med 2012 Feb;43(1):84-100. |
| 938 | 84. Ayala GX, Elder JP, Campbell NR, Arredondo E, Baquero |
| 939 | B, Crespo NC, Slymen DJ. Longitudinal intervention |
| 940 | effects on parenting of the Aventuras para Ninos study. Am |
| 941 | J Prev Med 2010 Feb;38(2):154-62. |
| 942 | 85. Falbe J, Cadiz AA, Tantoco NK, Thompson HR, Madsen |
| 943 | KA. Active and Healthy Families: A Randomized |
| 944 | Controlled Trial of a Culturally |
| 945 | Tailored Obesity Intervention for Latino Children. Acad |
| | |

| 946 | Pediatr. 2015 Jul-Aug;15(4):386-95. doi: |
|-----|--|
| 947 | 10.1016/j.acap.2015.02.004. |
| 948 | 86. Kaiser L, Martinez J, Horowitz M, Lamp C, Johns M, |
| 949 | Espinoza D, Byrnes M, Gomez MM, Aguilera A, de la |
| 950 | Torre A. Adaptation of a culturally relevant nutrition and |
| 951 | physical activity program for low-income, Mexican-origin |
| 952 | parents with young children. Prev Chronic Dis. 2015 May |
| 953 | 14;12: E72. doi: 10.5888/pcd12.140591. |
| 954 | 87. de la Torre A, Sadeghi B, Green RD, Kaiser LL, Flores |
| 955 | YG, Jackson CF, Shaikh U, Whent L, Schaefer SE. Niños |
| 956 | Sanos, Familia Sana: Mexican immigrant study protocol for |
| 957 | a multifaceted CBPR intervention to combat |
| 958 | childhood obesity in two rural California towns. BMC |
| 959 | Public Health. 2013 Oct 31;13:1033. doi: 10.1186/1471- |
| 960 | 2458-13-1033. |
| 961 | 88. Zoorob R, Buchowski MS, Beech BM, Canedo |
| 962 | JR, Chandrasekhar R, Akohoue S, Hull PC. Healthy |
| 963 | families study: design of a |
| 964 | childhood obesity prevention trial for Hispanic families. |
| 965 | Contemp Clin Trials. 2013 Jul;35(2):108-21. doi: |
| 966 | 10.1016/j.cct.2013.04.005. |
| 967 | 89. Schmied E, Parada H, Horton L, Ibarra L, Ayala G. A |
| 968 | Process Evaluation of an Efficacious Family-Based |
| 969 | Intervention to Promote Healthy Eating: The Entre Familia: |
| 970 | Reflejos de Salud Study. Health Educ Behav. 2015 |
| 971 | Oct;42(5):583-92. doi: 10.1177/1090198115577375. |
| 972 | |
| 973 | |
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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.

| Торіс | Discussion Guide Questions |
|--|---|
| Father's beliefs, attitudes and practices | related to child eating and feeding |
| Beliefs and attitudes related to healthy eating | What does healthy eating mean to you? <i>Probes:</i> 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? |
| Perceptions of child's eating and feeding experiences | In general, how satisfied are you with the types and amount of food your child eats? <i>Probes:</i> Why? Is it the same as what the rest of family eats? Is it culturally appropriate? Is it healthy? What are some foods that you wish your child would eat more of or more often? <i>Probes:</i> Why? What food do you wish your child would eat less often? <i>Probes:</i> Why? What are your biggest concerns about how your child eats? <i>Probes:</i> Do you ever worry your child does not eat enough? Do you ever worry that your child eats too much? Do you ever worry about not having enough food to provide to your child? |
| Practices related to child's eating and feeding at home | Describe a typical mealtime routine at your home. <i>Probes:</i> Who regularly prepares the meal? Who is present at the meal? Regularity of mealtime: Do you usually sit together as a family to eat? Does your child eat separately from the rest of the family? Does your child eat the same type of food as the rest of the family? Is the TV usually on during mealtimes? How are decisions made about what foods to feed your child? <i>Probes:</i> Healthy foods; Cost/convenience; Cultural values and traditions; According to advice or direction from another person? If yes, probe further: What is that person's role or relationship to you/your child? Describe any limits to eating that you set for your child during meals. <i>Probes:</i> How about snacks? Any particular types of foods and/or drinks not allowed? |
| Fathers' personal healthy eating practices and desire for personal changes | In general, how satisfied are you with the types and amount of food you eat? <i>Probes:</i> Why? Is it the same as what the rest of family eats? Is it culturally appropriate? Is it healthy? |
| Father's beliefs, perceptions and practi | ces related to child physical activity |
| Beliefs and perceptions of children's physical activity at home | How important do you think it is for children to be physically active? Probes: Do you think it is a problem for kids to spend too much time being sedentary or not being physically active? How much physical activity do you think children need? Probes: Why? How physically active is your child at home? Probes: Plays actively outside? Plays actively inside? Does not play actively when at home? In general, how satisfied are you with the amount of physical activity your child engages in? Probes: Why? Do you wish he or she would be more active? Do you wish he or she had more outdoor playtime? What are some types of physical activity or active play your child engages in while at home? Probes: Riding his or her bike? Playing in nearby playground or park? What are your biggest concerns about how physically active your child is? Probes: Do you ever worry your child does not engage in enough physical activity? Do you ever worry that your child is too sedentary? What types of things would you like to change about how physically active your child is at home? Probes: Amount? Types of activity? |

| 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? Probes: 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? Probes: 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? Probes: Do you let your child keep these electronics at all times? |
|---|---|
| Fathers' personal physical activity and sedentary behaviors and desire for personal changes | In general, how satisfied are you with the amount of physical activity you engage in? <i>Probes:</i> Why? Do you wish you would be more active? If desire changes, what would you change in your physical activity behaviors? |
| Father's Perceptions of Barriers Relate | ed to Child's Healthy Eating, Physical Activity and Sedentary Behaviors |
| Barriers faced by fathers and families in structuring a home environment conducive to healthy eating and physical activity | 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? <i>Probes:</i> 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? <i>Probes:</i> 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? <i>Probes:</i> 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? |
| | |

| Age | Mean + SD 34.2 <u>+</u> 2.8 | n (%) |
|-------------------------------------|--------------------------------|------------|
| US-born | | |
| Yes | | 4 (14.3) |
| No | | 24 (85.7) |
| Country/Territory of Origin | | |
| Colombia | | 9 (32.2) |
| Dominican Republic | | 6 (21.4) |
| Puerto Rico | | 4 (14.3) |
| Ecuador | | 2 (7.1) |
| El Salvador | | 2 (7.1) |
| Mexico | | 2(7.1) |
| Guatemala | | 1(3.6) |
| Venezuela | | 1 (3.6) |
| Honduras | | 1 (3.6) |
| Years in the United States* | 14.3 <u>+</u> 2.7 | |
| Predominant language spoken at home | | |
| Spanish | | 26 (92.9) |
| English | | 2 (7.1) |
| Marin scale acculturation score | 2.32 ± 0.36 | |
| Marital status | | |
| Married | | 26 (92.9) |
| Divorced | | 2 (7.1) |
| Education level | | |
| Less than high school | | 8 (28.6) |
| High school degree | | 14 (50.0) |
| General Education Development (GED) | | 6 (21.4) |
| Household annual income | | |
| $>$ \$40K/year and \leq \$50,000 | | 11 (39.3) |
| ≤ \$40K/year | | 17 (60.7) |
| Currently Employed | | |
| Yes | | 26 (92.9%) |
| Ies | | |

 Table 2: Socio-demographic and acculturation characteristics of study participants (n = 28).

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.

| Themes | Representative quotes |
|---|---|
| Healthy Eating and Food Parenti | ng Practices |
| Definition | |
| Fathers' definitions of healthy eating | "The diet should be healthy, should include vegetables and fruits, but necessarily everything. Healthy eating should include equilibrium" "I say it's no fast-foods, not eating any fast food meals" "For me it's a balanced diet. It doesn't matter what you eat, it's about the portion." "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." |
| Importance | |
| Fathers believe healthy eating is important | "Healthy eating is one of the most important things for one's health, and living healthyumm, it affects one's quality of life" "I think it's important that the kids learn to eat healthy, healthy foods when there are youngit has an impact on their growth and health" |
| Personal Practices | |
| Fathers do not always eat healthy, but are aware of the need to improve their eating habits | "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" "Many times I have to eat whatever is quickly available, fast and on-the-goso, the fastest and convenient is not healthiestpizza, tacos, hamburgers" |
| Fathers' Food Parenting Practices | |
| Continued effort | "It's a constant effort you need to keep trying to teach them [children] to eat healthyall of us [adults included]" "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" |
| It is Okay to Indulge and Eat Unhealthy Once in a While | "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" "I wish that my son would eat healthier, but he likes to eat some foods that are unhealthy, just like most kid" |
| Eating out | "During the week we eat at home and during the weekends we go out" "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" "If we got out, Wendy's or McDonalds. She [daughter] always goes out for pizza" "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" "We try to go out to restaurants, but [with children] it's hard to have a sit down meal. We get fast-food, pizzaalways Wendy's for fast-food" |

| Fathers' Involvement with and Responsibilities for Child Feeding | | |
|--|---|--|
| Fathers Have a Traditional View of Motherhood | "She [mother] is most direct contact when she is buying the food and when she chooses what we eat." "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" "I like to follow the mother's leadit's just easier that way." | |
| Fathers' Perceived Barriers to Child | Iren's Healthy Eating | |
| Time constraints | "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" "My wife likes to plan in advance, she does the shopping during the week and prepare some of the foods that take longerduring 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" | |
| Conflicting schedules | "My wife does a lot, it's crazy with the schedule at work, and sometimes it changes the last minuteif I am not home it's hard" '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" | |
| Convenience | "Sometimes you need to get something quick after a long day of workthe kids come home from school, my wife is still at workso, we just get some take out" "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 somethingsome days she just can't do everything. I say, that's fine, no one is going to die because you are not cooking today" | |
| Easy access and availability of unhealthy food choices | "It's hard to resist sometimesnowadays it's so easy for kids [and adults] to eat fast food When I was growing up, bad food was fried food at home" "You know, everywhere you go there is food, junk food, and it doesn't cost muchsometimes you don't even think about itwhen you see the kids have eaten 2-3 junk food already, a donut, a hamburger and fries and sodajust like thatit's everywhere" | |
| Desire for Changes | | |
| Fathers Would like their Children's Eating Habits to Change | "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. "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." "Have some lower intake in sugar, that is my wishbut that is probably unrealistic" "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" "I just want mine [child] to umm be in a balanced weight or at a healthy weight. With healthy, ummwith 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 youthat's what I wish for them [children]" | |

| 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." "I 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 changelose 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 H | Behaviors |
| Definition | |
| Fathers definitions of active living | "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 siting 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 engagedI think that the kids cannot spend a lot of time just sitting in front of the computer or playing video gamesthey 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 decisionwhen we are at home, then my wife is more in charge" |
| Parenting Styles and Practices | |
| Permissive Style and Limit Setting | |
| Fathers Are Permissive of Sedentary Activities for their Children and Struggle to Set Limits | "You know with my daughter it's difficultshe kind of like to play with dolls, do her coloringI am not going to interfere with thatI just let her do what she wants and like. I just like to live in harmonywhy 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 itit's kind of inevitable to keep them off line" |

| Involvement and Engagement | |
|---|---|
| Fathers Report Being Involved and Engaged in Their Children's Physical Activity | "It is usually me when it comes to doing stuff with themusually mom comes home and she's kind like to keep everything in order kind of thing. Usually, the kids come and the house isyou house is in order and everything" "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 playmy 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 | |
| Fathers View Themselves as Physical Activity Role Models | "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 thatso, 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 | |
| Fathers' perceptions of barriers to children being physically active | "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 issueI 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 | |
| Fathers desire changes in their own physical activity habits | "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 footI 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" |