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# 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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## 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 States<sup>1</sup> (U.S.) and children in low-income Latino families 4 have an elevated risk of becoming overweight or obese.<sup>2</sup> 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.<sup>2</sup> 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.<sup>2,3</sup> 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.<sup>4,5,6</sup> 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.<sup>2,3,6</sup> 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).<sup>4,7-11</sup> 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. <sup>4,8,10-12</sup> 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. <sup>4,5,12</sup>
29	To date research examining parental influences on
30	children's healthy eating, PA, and SB has primarily focused on
31	mother-child interactions. <sup>3, 6-11,13-20</sup> 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. <sup>10,11,13-20</sup> 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. <sup>21-25</sup> 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. <sup>23,26</sup>
40	Recent reviews point to the limited representation of fathers
41	on parenting and childhood obesity research. <sup>27-30</sup> Despite the
42	increasing number of studies examining fathers' food parenting
43	practices, <sup>31-35</sup> available research assessing the influence of
44	parenting styles and practices on children's eating among Latino
45	fathers is limited. <sup>36-40</sup> Nonetheless, these studies underscore
46	father's influential role on children's eating. <sup>36-40</sup> 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.<sup>36-40</sup> 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<sup>39,41</sup> with limited research examining Latino fathers' 52 beliefs, attitudes and practices related to young children's PA and 53 SB.<sup>39,41</sup> 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.<sup>7</sup> 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.<sup>7</sup> 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.<sup>3,6</sup> 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).<sup>42</sup> 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. <sup>43,44</sup>
105	Moreover, the synergistic effects of group settings elicit ideas and
106	discussion that may not arise in individual interviews. <sup>43,44</sup> 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). <sup>45</sup> 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).<sup>45</sup>
- 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.<sup>46,47</sup> 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.<sup>46,47</sup> 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
	<b>Fathers' Parenting Styles and PA Parenting Practices</b> Fathers Are Permissive of Sedentary Activities for their Children
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- 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.<sup>8,11,14-20,48-53</sup> 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. <sup>7,13,17,52,53</sup> 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. <sup>7,13,17,52,53</sup>
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. <sup>21,23,25,26</sup> 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. <sup>26,55-58</sup> 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. <sup>54-58</sup> 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. <sup>58</sup>
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. <sup>37,38</sup> 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. <sup>11,13,14,16,17</sup> 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. <sup>17,59-66</sup>
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. <sup>59-65</sup>
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. <sup>37</sup>
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, <sup>67,68</sup> 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. <sup>67,68</sup> 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.<sup>37,67,68</sup> 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).<sup>10,32,48,60,62</sup> 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.<sup>69-72</sup> 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.<sup>69-82</sup> 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.<sup>17,36-40</sup> 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
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. <sup>13,17,36-39</sup>
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. <sup>83-89</sup> 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. <sup>83-89</sup> 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. <sup>80,81</sup>
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,
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.
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	<ul> <li>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.</li> <li>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</li> </ul>
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 <del>4</del> 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	

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	<b>What does healthy eating mean to you?</b> <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	<b>Describe a typical mealtime routine at your home.</b> <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? <b>How are decisions made about what foods to feed your child?</b> <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? <b>Describe any limits to eating that you set for your child during meals.</b> <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	<ul> <li>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?</li> <li>How much physical activity do you think children need? Probes: Why?</li> <li>How physically active is your child at home? Probes: Plays actively outside? Plays actively inside? Does not play actively when at home?</li> <li>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?</li> <li>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?</li> <li>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?</li> <li>What types of things would you like to change about how physically active your child is at home? Probes: Amount? Types of activity?</li> </ul>

Practices related to screen time at home	<ul> <li>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?</li> <li>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?</li> <li>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?</li> </ul>
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	<ul> <li>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)</li> <li>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)</li> <li>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?</li> </ul>
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	$2.32 \pm 0.36$	
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"
<b>Fathers' Food Parenting Practices</b>	
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	<ul> <li>"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.</li> <li>"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."</li> <li>"Have some lower intake in sugar, that is my wishbut that is probably unrealistic"</li> <li>"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"</li> <li>"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]"</li> </ul>	

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"
<b>Parenting Styles and Practices</b>	
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"