Research Article

Health Communication and Obesity Prevention in Hispanic Communities: A Qualitative Exploration of Media’s Roles

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Abstract

This study qualitatively explored Hispanics’ perceptions of obesity and media-related strategies to obesity prevention. Sixteen interviews were conducted with a purposeful sample of Hispanic adults (56% females; ~41 years old) in Texas. The interviews were audiotaped and transcribed verbatim and analyzed using inductive content analysis approach. Results showed that participants were aware of the severity and consequences of obesity. Media, especially Spanish TV and Internet were the primary health communication channels. Participants wished for more frequent public health announcements of local government initiatives, programs and events; desired celebrity’s role modeling; and suggested media portray of fat body imagery to help the community recognize the
seriousness of obesity, as well as demanded for regulations on junk food commercials. In conclusion, future obesity prevention communication should consider using Spanish TV and Internet as the primary channels, utilizing celebrities as message sources, focusing on public health announcements & messaging; as well as advocating junk food commercial regulation.

**Keywords**: Obesity, Hispanics, Media, Qualitative.

**Introduction**

The increasing obesity prevalence in the United States (US) has caused preventable health and economic burdens, particularly affecting Hispanic communities (CDC, 2009). Hispanic adults are considered the minority group with the second-highest obesity
prevalence. Obesity in Hispanics has been considered at “staggering proportions”, with Hispanic children becoming obese earlier in their lives (National Hispanic Caucus of State Legislators, 2010).

Overweight and obesity increases the likelihood of many chronic diseases such as hypertension, diabetes, heart disease, stroke and some forms of cancer (Azevedo et al., 2006). The top ten causes of death in the Hispanic community include obesity-related diseases (National Hispanic Caucus of State Legislators, 2010). Overall life expectancy for Hispanics is declining due to obesity and obesity-related health risks (National Hispanic Caucus of State Legislators, 2010). Obesity and its health-related issues cause a “disproportionate economic burden” to Hispanics, especially to those with lower socio-economic status; struggling
to cover individual and family health care costs (National Hispanic Caucus of State Legislators, 2010). Thus, it highlights the urgent need for effective intervention strategies to reverse this epidemic among Hispanics.

Current research suggests that obesity is the result of complex factors including genetics, lifestyles and others (Crespo et al., 2001). Studies show that certain ethnic groups (e.g., Hispanics) have a genetic predisposition to obesity and diabetes (Hayes et al., 2007). Also, poor eating habits and the lack of physical activity are major contributors to overweight and obesity. Hispanics in the US have a unique demographic profile of low education attainment, low income, and low health insurance coverage, and are predominantly Spanish speakers (U.S. Census Bureau, 2010); which may influence their access to mainstream health
information and healthful living opportunities. Moreover, research shows that Hispanics tend to perceive excess weight levels differently than non-Hispanic Whites (Duncan et al., 2011). A recent study in Texas showed that Hispanic women perceived children and women that are “chubby” or overweight as “healthy” (Ramirez et al., 2007). Misperceptions about weight status are associated with less likelihood in or less attempts at weight loss and less physical activity (Duncan et al., 2011). Lack of health information and knowledge (Ramirez et al., 2007), coupled with weight misperception presents a major barrier to lifestyle interventions, accepting emerging public policy changes, and also utilizing environmental initiatives necessary to prevent and manage obesity.
Health communication using media may play an important role informing Hispanics about obesity-related health issues. Research shows that minority groups including Hispanics heavily rely on media compared with other sources for health information (Brodie et al., 1999). Also, most Hispanics speak Spanish at home (U.S. Census Bureau, 2009). Thus, Spanish media may have a greater role than general mainstream media in educating and equipping Hispanics to live a healthier lifestyle.

Effective health communication presents a promising approach in preventing obesity among the Hispanic communities. Based on the Communication-Persuasion Model, the effectiveness of health communication efforts depends on the various inputs and their characteristics (McGuire 1989). Key communication input variables include the channel through which the health message
is communicated; sources of the health message, the message itself, and audience factors. Currently, there is a paucity of research on how and to what extent the media are informing obesity-related health issues in Hispanic communities. To this end, the current study was conducted to 1) qualitatively explore the current perception of obesity among the Hispanic communities and 2) seek sights on media-related intervention strategies, in particular channels and sources of message; and the messages for obesity prevention, as well as the Hispanic communities’ perception of these messages.

Methodology

This qualitative study conducted in-depth interviews with a purposeful sample of Hispanics in the Westside of San Antonio,
Texas in 2011. The Institute of Research Board at the University of Texas at San Antonio approved the study. The target research areas were primarily low-income and educationally disadvantaged Latino neighborhoods with a high prevalence of obesity and diabetes.

Study Participants

A purposeful sampling (Patton, 1990) strategy was used to recruit Hispanic participants in community settings, including Laundromats and flea markets. Efforts were made to include a heterogeneous sample of participants with diverse characteristics (e.g., gender, age and weight status (normal weight versus overweight or obese). Throughout the data collection process, 27 potential participants were approached to
participate by a researcher. Interested participants were screened for study eligibility and were informed of study purposes and procedure. Adults who were over 18 years old and self-report as Hispanics were eligible to participate in this study. Upon verbal consent, the research staff continued with data collection.

**Data Collection**

A semi-structured facilitation guide was developed to enquire participants’ perception of information channels, sources and media influences pertaining to obesity, as well as their perspective on media’s roles on obesity prevention among Hispanics. The facilitation guide was pilot tested with three Hispanic adults and wording was modified to improve clarity.
One bilingual researcher conducted all interviews in Spanish, except one participant who felt more comfortable communicating in English. Interviews took place where the participants were recruited. Interviews lasted from 8 to 20 minutes and were audiotaped. At the end of each interview, the researcher confirmed the participants’ responses, using “member-checking” to help improve the accuracy of findings (Patton, 1987).

With the exception of one interview, each interview was transcribed verbatim in Spanish and translated to English, then proofread by another bilingual researcher. The research team, constantly throughout data collection process, reviewed each transcript until theme saturation was reached (Patton, 1987). At the 16th interview, the research team felt theme saturation occurred and thus, stopped recruiting new participants.
In addition to the interviews, participants filled out a demographic questionnaire. The questionnaire was used to collect information about the participants’ age, gender, ethnicity, residency, education, socio-economic status, language, as well as exposure to general and/or health-related information sources.

Data Analysis

Data were analyzed using inductive content analysis (Patton, 1987). Inductive content analysis works from specific data to derive broader conclusions without identifying expected outcomes before the data is collected. We used a team approach for data analysis, a technique to ensure study credibility and avoid bias (Patton, 1987). Three researchers, including one bilingual individual, independently reviewed the transcripts, identified themes and developed a preliminary coding template.
The research team then met to develop a merged coding template. Two researchers pilot-coded the template on one transcript, using NVivo 9 software. Coding issues that arose during the initial analysis were resolved through consensus within the team.

Results

*Demographic Profiles of Study Participants*

Of the 16 participants, nine lived in the U.S. for over 20 years. The mean age of the sample was 41 years with six male and ten female participants. Approximately two thirds were residents of the city of San Antonio for less than 10 years. About half of the participants had some college education. Also, a half of the participants had an individual income below $22,000 per year.
Spanish was primary language in nearly two thirds of participants. Almost half of the participants reported visiting their doctor or physician seldom and over 1/3 of all participants who did so regularly. Spanish language TV was the primary channel for which participants obtained their information. Only one participant reported to have participated in obesity prevention community programs. See Table 1 for additional sample characteristics.

Please see table 1 in the PDF version

Figure 1 shows that all participants reported to have access to TV. Internet was the second most accessible media outlet. Two thirds of participants also had access to radio and a half had access to newspapers. Figure 2 shows that TV and Internet were the preferred media outlets.
Figure 1. Media Outlets Access, (n=16)
Figure 2. Preferred Media Outlets, (n=16)
Findings from the Qualitative In-depth Interviews

Findings from the qualitative in depth interviews revealed six key themes. These themes included participants’ perceived severity and consequences of obesity among the Hispanic community, perceived causes or contributing factors, message channels pertaining to obesity, health messages and roles of media, as well as other solutions and suggestions to obesity prevention and management among the Hispanic population.

Theme 1: Perceived Severity and Consequences of Obesity among the Hispanic Community (Table 2)

Participants were knowledgeable about the severity of the obesity problem in the Hispanic community. They were aware of the high prevalence of overweight and obesity among Hispanic
children and adults. Participants were also aware of the health consequences of obesity such as cardiovascular diseases and diabetes. Some participants expressed concerns for themselves and their families being affected by this health problem.

Please see table 2 in the PDF version

Theme 2: Perceived Causes of /Contributing Factors to Obesity (Table 3)

Participants identified a wide-array of contributing factors to the obesity issue in the Hispanic community. Busy life, cultural foods and unhealthy eating habits, lack of determination, and lack of exercise and health knowledge were among the emerging factors identified by the participants. Low socio-economic status and
food insecurity were also perceived as risk factors to obesity. Participants articulated that the food industry and the development of technology (e.g. videogames, computers, and multimedia players) also contribute to the obesity problem.

Please see table 3 in the PDF version

Theme 3: Obesity-related Message Channels and Sources (Table 4)

Participants reported that they obtain health-related information and more specific obesity-linked information from a variety of media channels. TV was cited as an important information channel. Internet, newspapers and magazines were also cited as information sources. However, one participant pointed out that there was a fee associated with useful healthy lifestyle
information via Internet. Radio appears to be the least used information channel pertaining to obesity. Some participants felt that there was not sufficient media coverage on obesity related topics. Participants also identified other message sources such as doctors, families and friends.

Please see table 4 in the PDF version

Themes 4: Messages Related to Obesity and Prevention (Table 5)
When asking what obesity-related related messages were out there in the media, participants recalled messages regarding local government’s effort on promoting physical activity and school feeding programs. On the other hand, participants pointed out that there were many bad messages, e.g., junk food commercials, diet plans and diet pills advertisement on TV.
Participants suggested that the community needs health information and education and that the media play an important role in addressing the obesity problem. Participants would like to receive more frequent and intense public health messaging regarding obesity prevention. Role modeling using celebrities (e.g., artists and singers) would encourage and motivate the community to take action to live a healthy lifestyle. Acknowledging that the Hispanic community has misperceptions about their weight status, participants offered their insights that it may increase the community’s awareness about the severity
and consequences of obesity. They suggested that showing obese people’s body image might help people recognize obesity and increase their perceived severity of the obesity problem. Last, but not least, a few participants demanded that junk food commercials needed to be regulated in the media.

Please see table 6 in the PDF version

Theme 6: Other Suggestions for Obesity Prevention in the Hispanic Community (Table 7)

Participants acknowledged that there were on-going government initiatives and campaigns that help address the obesity problem in the community. They suggested that the government could do more to make schools and the built environment conducive to
healthy eating and physical activity. Furthermore, participants articulated a wide-array of strategies including school-based initiatives and accessible indoor and outdoor physical activity opportunities. They also emphasized the importance of parental role modeling, peer support and personal responsibility on obesity.

Please see table 7 in the PDF version

Discussion

The aim of the study was to 1) qualitatively explore the current perception of obesity among the Hispanic communities in San Antonio, and 2) identify media-related intervention strategies including channel, sources of message, and communities’
perception of existing media messages related to obesity. Results from this study showed that participants were aware of the severity and consequences of obesity as well as the contributing factors in their community. Media, especially Spanish TV, and Internet were the primary channels. Participants perceived both positive and negative messages that impacted the Hispanic communities on obesity-related health issues. Participants expressed that media could play an important role in informing, educating and motivating the Hispanic community to adopt a healthier lifestyle and reduce obesity risk.

Overall, participants in this study understood the severity, consequences and contributing factors of obesity among Hispanics. A recent qualitative study in Texas with community center workers serving children and families in a predominantly
Hispanic, low-income neighborhood also reported that participants recognized obesity as a problem and identified healthy eating and physical activity to manage the problem (Chatterjee et al., 2005). Consistent with the literature (Contento, Basch & Zybert, 2003; NHCSL, 2010; Duncan et al., 2011), participants in the current study did point out that many community members were not aware of their own weight problem and called for education through the media to help address this health problem.

Consistent with other research, the current study suggested that media, especially Spanish-language TV and Internet were important health communication channels for this target population (Center for Spanish Language Media, 2011). The majority of participants in the current study had access to and
preferred TV and Internet for obesity-related health messages over newspaper and radio. Brodie and colleagues (1999) also identified TV as the most common and most preferred health information outlet among all media. Another recent survey found that Hispanics who are not comfortable speaking English have lower trust and lower general mainstream media use patterns than their counterparts who are more comfortable speaking English (Clayman et al., 2010). This may imply that Spanish media are more attractive to predominantly Spanish speakers. Furthermore, the authors suggested that the poorer, less educated Hispanics might be especially receptive to messages given through aural and visual channels, including TV (Clayman et al., 2010). In a study by Vargas & De Pyssler (1999), researchers analyzed the content of major Spanish newspapers and concluded that these ethnic newspapers fell short on
operating as health communication channels. Nonetheless, Spanish-language TV and Internet could serve as better channels to deliver obesity prevention messages than newspaper or radio.

Participants in the current study recognized the impact of media messages, negatively or positively, pertaining to obesity among Hispanics. On one side, participants in this study reported concern with the promotion of diet pills, diet plans and junk food on television. Recent data suggests advertisers spend more than $566 million on food, beverage and restaurant advertising through Spanish media (Brown et al., 2008). Lobbying and advocacy for junk food commercial regulations represent an important media-related strategy to prevent against obesity among the Hispanic communities.
On the positive side, participants felt that media could play an important role in informing and motivating the Hispanic community to live a healthier lifestyle and reduce the risk of obesity and diabetes. A lack of health knowledge and determination to change health behaviors were identified as important contributing factors to obesity, which are aligned with findings from another study in the Hispanic community (Ramirez et al., 2007). In addition, the unique demographic profiles of low education, low income and low health insurance coverage rate among Hispanics further the importance of media in informing, educating and motivating the community to address the obesity-related health issues. Brodie et al (1999) reported that Hispanics relied heavily on media for health information a decade ago. Although participants in the current study felt that there was insufficient media coverage in regards to obesity, they did recall
positive health messages from Spanish language TV such as public health announcements promoting local physical activity events, and healthy eating messages. Participants asked for more and frequent public health announcement, positive health messaging, including TV shows that offer practical tips and healthy cooking demonstrations. The community also appreciated reliable but free health information from diverse media sources including the Internet. To tackle the lack of self-determination in this community, participants suggested that using celebrity role models as the message sources could motivate the community to take health action. For instance, having a famous artist or singer showing up to local physical activity events would motivate the less-determined community members’ to participate in such activities. These suggestions of role modeling of celebrities coincide with a recent Texas Spanish-
language TV media campaign which showcased the role of models and experts that are relevant and credible to the audience to providing useful obesity prevention information and messages (Reminger et al., 2010).

Among the suggested media-related strategies, participants articulated the usage of “fat body image” to help the community recognize the seriousness of the obesity problem. This was an interesting but very sensitive topic. Based on the Health Belief Model, visual imaging of a severe disease and its consequences can be an effective strategy to heighten people’s perceived severity and vulnerability of that particular disease, thus increasing the likelihood of individuals taking preventive actions (Windschitl, 2003). A recent Dutch media campaign that used TV commercials to portray the “danger of gaining 1 kg a year”
was effective in increasing obesity awareness, creating more positive attitudes and motivating individuals with lower risk perceptions and increasing efficacy for preventing weight gain (Wammes et al., 2007). However, because research has consistently suggested that obese people often experience psychological stress and social stigma (Muennig, 2008), usage of such media strategies that increase the stigma associated with “fat body imagery” should be used with caution. Nonetheless, research is critically needed to develop cultural sensitive strategies to assist the community overcome their weight misperception that hinder the effects of any obesity preventive measures in Hispanics.

Although media-related intervention is important, it is only one type of obesity prevention strategy for Hispanics. Without
prompt, participants in the current study were able to identify multiple risk factors at the micro and macro-levels that were perceived as contributors to the obesity problem in the Hispanic community. It is encouraging that participants understood that obesity was a multifaceted health problem caused by a variety of factors. In addition to cultural foods and unhealthy eating habits, busy life and lack of exercise, participants perceived the food industry as a major contributor to obesity, and regulation through policy would help the community to engage in healthier eating habits. They also perceived that poverty and food insecurity hindered people’s ability to make healthy food choices. Participants articulated a wide-array of solutions to address the obesity epidemic in their community, which were in line with CDC’s comprehensive obesity strategies (Keener et al., 2009). Participants appreciated the on-going government and school-
based obesity prevention efforts underway in the San Antonio community. However, they also believed that more preventive actions are needed. Government, schools and the media were identified as key entities who could offer health education and programming to increase the community’s knowledge of practicing healthier habits. Moreover, health-friendly environments such as communities with parks, sidewalks and affordable gym classes would facilitate active living. At an individual and interpersonal level, participants pointed out that personal responsibility, parental role modeling and peer support play significant roles in the battle against obesity.

While the current study provided great insight about the perception of obesity among Hispanics, there were several limitations associated with this qualitative study. First, although
a purposeful sampling strategy was used, like other qualitative studies of this nature, participants may have self-selected to participate in a study because they have a keen interest and substantial knowledge about health issues; their opinion may not reflect the general publics’ opinion. Secondly, although this study made every effort to minimize bias by avoiding leading questions, social desirability may have still influenced participant responses. In addition, there was a more significant amount of females than males participating in this study. The length of living in the United States could also have influenced participants’ responses during the interviews. Lastly, we did not include information about the language of preference when using media in the demographic questionnaire. Nonetheless, these findings generated rich data to inform readers on methods for developing
obesity prevention strategies and may be relevant and applicable to communities with similar settings and characteristics.

Conclusions and Implications

Hispanic residents are concerned with obesity and were able to suggest potential solutions to address the escalating obesity problem. Spanish media represent a promising venue to inform, educate and motivate the Hispanic community to live a healthier lifestyle and thus reduce the risk of obesity and diabetes. Future media-related obesity prevention strategies should consider using TV and Internet as the main channels of health communication, utilizing celebrities as message sources in educating the community about living a healthy lifestyle, and focusing on frequent public health announcements of local
government initiatives, programs and events; as well as advocating regulation on junk food commercials. Future research is needed to analyze the current health communication content regarding obesity in major Spanish-language media sources. Also, future research using a quantitative approach is needed to confirm the finding from the current qualitative study. Content analysis of the current obesity-related health information in major Spanish-language media sources will help better develop effective health communication through the media. In addition, research is also needed to explore the potential effect of “fat body imagery” on changing the Hispanic community’s weight perception. Such studies should be conducted with caution to avoid psychological issues in the community.
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