

UC Santa Barbara

UC Santa Barbara Previously Published Works

Title

Using Community-Based Participatory Research and Human-Centered Design to Address Violence-Related Health Disparities Among Latino/a Youth.

Permalink

<https://escholarship.org/uc/item/7px9f5pb>

Journal

Family & community health, 40(2)

ISSN

0160-6379

Authors

Kia-Keating, Maryam
Santacrose, Diana E
Liu, Sabrina R
et al.

Publication Date

2017-04-01

DOI

10.1097/fch.0000000000000145

Peer reviewed

Using Community-Based Participatory Research and Human-Centered Design to Address Violence-Related Health Disparities Among Latino/a Youth

Maryam Kia-Keating, PhD; Diana E. Santacrose, MA; Sabrina R. Liu, MA; Jessica Adams, PhD

High rates of exposure to violence and other adversities among Latino/a youth contribute to health disparities. The current article addresses the ways in which community-based participatory research (CBPR) and human-centered design (HCD) can help engage communities in dialogue and action. We present a project exemplifying how community forums, with researchers, practitioners, and key stakeholders, including youths and parents, integrated HCD strategies with a CBPR approach. Given the potential for power inequities among these groups, CBPR + HCD acted as a catalyst for reciprocal dialogue and generated potential opportunity areas for health promotion and change. Future directions are described.

Key words: community-based participatory research, health disparities, human-centered design, Latino/a, violence

LATINOS/AS are the largest and fastest growing minority group in the United States,¹ a fact that highlights the importance of understanding and addressing the unique health concerns facing this population. Exposure to violence represents a significant health disparity, as Latino/a youth and adolescents are 3 times more likely to witness violence (community or domestic) than non-Latino/as.² Furthermore, violence exposure has disruptive effects on both physical and mental health.³

Nonetheless, Latinos/as in the United States continue to receive low-quality health care, facing numerous barriers to accessing timely and effective services.⁴ Research suggests that this problem may be due to a variety of factors across systemic, community, provider, and patient levels.⁵ Cultural competence, which refers to the ability to “transform knowledge and cultural awareness into health and

psychosocial interventions that support and sustain healthy client-system functioning within appropriate cultural contexts,”^{6(p261)} is often inadequately addressed.

Ethnic minority consumers and marginalized communities are rarely included at the research table when evaluating health care needs, designing prevention and intervention programs, and assessing barriers and facilitators of care.⁷ One reason may be that traditional research approaches can unintentionally silence, rather than foster, individual participants’ voices.⁸ Consequently, researchers lose the opportunity to capitalize on the unique contributions, experiences, perspectives, and knowledge that community members can provide, informing the development of culturally competent, effective community intervention and prevention efforts.⁹ Numerous subgroups of Latinos/as exist, pointing to the importance of including all voices at the table to incorporate within-group diversity.⁵

One alternative is to use a participatory approach and equitably include community members in the efforts. Community-based participatory research (CBPR) is a philosophical framework that has been cited for its innovative methods of incorporating the voices of a community into research, particularly around health disparities.^{5,8,10} Rooted in philosophical approaches described by Freire,¹¹ the target population engages in a process of dialogue, reflection, and action, creating a continuous feedback loop, to reduce health disparities and increase equity. Community-based participatory research calls for a collaborative approach where academic researchers and members of the community under study strive to have an equal voice in all

Author Affiliations: Department of Counseling, Clinical, and School Psychology, University of California, Santa Barbara (Dr Kia-Keating and Mss Santacrose and Liu); and Child Abuse Listening Mediation (CALM), Santa Barbara, California (Dr Adams).

Funding for this project was made possible (in part) by grant R13 HD075495-01 from the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD). The views expressed in this manuscript do not necessarily reflect the official policies of the Department of Health & Human Services, nor does the mention by trade names, commercial practices, or organizations imply endorsement by the United States government.

The authors declare no conflict of interest.

Correspondence: Maryam Kia-Keating, PhD, Department of Counseling, Clinical, and School Psychology, University of California, Santa Barbara, CA 93106 (mkiakeating@education.ucsb.edu). Copyright © 2017 Wolters Kluwer Health, Inc. All rights reserved.

DOI: 10.1097/FCH.000000000000145

aspects of the research, including the research questions, study design, data collection, and analysis.¹⁰ Although CBPR is becoming increasingly popular, it is still in its infancy compared with traditional research perspectives.¹² Therefore, the concept of CBPR may not be as widely understood by researchers. Providing specific rationales, strategies, and procedures utilized in CBPR health disparities work will help guide and refine this growing field. It is particularly useful to take a CBPR approach with ethnic minority and other vulnerable populations because, at its core, CBPR aims to increase levels of community trust, engagement, and empowerment.³ By incorporating the knowledge of community members, CBPR can improve the likelihood that health disparities are addressed in culturally meaningful and effective ways.¹⁰

Like CBPR, human-centered design (HCD) is a creative problem-solving framework based on the principle that “people who face those problems every day are the ones who hold the key to their answer.”^{13(p9)} Human-centered design emerged from fields such as ergonomics, computer science, and artificial intelligence.¹⁴ However, more recently, some researchers have begun to use both HCD and CBPR simultaneously to address health disparities. For example, Durand et al¹⁵ used HCD in conjunction with CBPR to design a pictorial encounter decision aid for women of low socioeconomic status diagnosed with early-stage breast cancer. Their goal was to address the disparities that exist in decision making, treatment, and outcomes for this population.¹⁵ Using HCD approaches can include many overlapping methods that align with CBPR, including interviews with community members and emphasizing their importance in building empathy for the target population.¹³ One feature of HCD that is particularly useful in combination with CBPR is its focus on how to generate creative and innovative solutions to community or “human” problems. For example, IDEO, a global design firm specializing in HCD, has a free tool kit available with many specific strategies for quickly and effectively engaging communities in problem solving and generating solutions.¹³

THE CURRENT STUDY

Understanding the main mechanisms and social determinants of health disparities related to violence among Latino/a youth is paramount to better serving this population; it is especially important for working to interrupt and prevent the cyclical nature of violence and its sequelae. The current study integrated CBPR and HCD (CBPR + HCD) in order to understand and address health disparities related to violence among Latino/a youth. In addition to a

focus on the prevention of negative outcomes, the project also investigated how to best promote positive developmental trajectories for youth, including supporting resilience and healthy developmental pathways, increasing assets, and strengthening protective factors that could moderate the potential negative impact of exposure to stressors.¹⁶ Proyecto HÉROES (Project HEROES; the acronym spells out in Spanish: Honor, Educación, Respeto, Oportunidad, Esperanza, y Soluciones) is a CBPR partnership bringing together a transdisciplinary group of researchers, practitioners, and key stakeholders to increase knowledge and cultural competence regarding the social determinants of health disparities on Latino/a youth, family, and community health and mental health. The CBPR + HCD invited full participation of all key stakeholders from a diverse range of developmental, educational, socioeconomic, linguistic, and cultural backgrounds to engage in creative problem-solving and generate innovative solutions.

METHODS

Participants

A total of 173 adults and 21 youths (younger than 18 years) participated in 1 of 3 community forums on Latino/a youth that were free and open to the public. The first community forum consisted of 70 adults and 11 youths (females, $N = 60$; 86%), the second forum included 63 adults and 5 youths (females, $N = 32$; 51%), and 40 adults and 5 youths participants (females, $N = 34$; 85%) participated in the third forum. The first 2 forums took place on Saturdays and served lunch, and the last forum took place on a weekday evening and included dinner. All forums took approximately 3 hours, provided free childcare, and used simultaneous, 2-way (English and Spanish) interpretation^{17,18} using multiple listener technology¹⁹ with an interpreter and headphones available for all participants.

Participatory codesign of community forums

At the outset of the project, a community advisory board (CAB) was formed. The CAB participated in determining the content, structure, and methods for all aspects of the research. The CAB included 24 key stakeholders, including representatives from community organizations serving Latino/a youth (ie, school district, afterschool programs, religious organizations, mental health organizations), leaders from key community sectors (ie, city council, police department), interdisciplinary researchers (ie, psychology, education, sociology), parents, and Latino/a youths themselves. For

the community forums, the CAB helped determine the titles, advertising, content (ie, semistructured questions to facilitate dialogue), and activities.¹⁰ The CAB also played a critical role in identifying speakers for the community forums, resource tables, and staffing of the events. Youth CAB members helped plan the community forums and also helped identify relevant youth speakers for the forums. Latino/a youths presented their photographs (from a photovoice project that was facilitated by Proyecto HÉROES²⁰), poetry, and personal experiences. Community organizations also provided resource tables for families, including information about mental health services, social support networks, and safety and security resources. Feedback from each forum informed the collaborative design process and content of the forums that followed.

Community-driven discovery

Both CBPR and HCD highlight the importance of creating opportunities for community members to lead research efforts.^{10,13} There are a number of potential benefits to putting community researchers at the helm of data collection efforts, such as increasing comfort and honesty among participants who might be able to better express their perspectives to a respected peer. Community researchers may also have insights from their own firsthand knowledge. Additionally, their contributions can be useful in gathering relevant information more quickly or in more nuanced and effective ways. Fifty-five community leaders and volunteers helped facilitate the 3 forums (N = 25, N = 18, and N = 12, respectively). All facilitators completed a 2-hour training focused on handling off-topic conversations, managing time, engaging community participants, and techniques to generate dialogue and brainstorming.

Community forum recruitment and advertising

The community forums took place in 3 low-income and predominantly Latino/a neighborhood locations, within a larger context of extreme income disparities and racial and socioeconomic stratification. Flyers about the community forums were posted in the community, handed out directly to residents by walking the neighborhoods, distributed at local public schools, and advertised at youth-serving agencies. CAB youths, and a group for 20 youths living in local low-income housing projects, provided recommendations about location of the forums, methods for advertising, and activities to help draw youth and families to participate.

The aim of the community forums was to address health disparities related to violence and other stres-

sors affecting the Latino/a community. Nonetheless, CAB members suggested that starting with broader topics would provide greater flexibility for participants to communicate their true needs, and that some families may be reluctant to attend a forum that focused only on violence. Thus, 2 forums launched conversations around school experiences and safety, while 1 forum directly mentioned violence with a focus on solutions. Ultimately, participants raised issues about violence and related adversities, including bullying and discrimination, at all forums. The first community forum, “Nuestras Escuelas: Voces de la Comunidad” (“Our Schools: Voices of the Community”), included speakers who highlighted school experiences (ie, school climate, bullying, belonging, support) for Latino/a youth. The second community forum, “Esta es nuestra comunidad: Estos son nuestros hijos, Let’s find solutions together to increase safety and reduce trauma and violence,” underscored innovative solution building to address violence and trauma exposure among Latino/a youth. The third forum, “Apoyando a Nuestros Niños y Jovenes Latinos: Como Proveer Seguridad y Fortalecer su Desarrollo” (“Safe Lives and Healthy Futures for Latino Youth and Families”) emphasized sense of safety, resilience, and youth well-being.

Anchoring the dialogue through community voices

A number of strategies were utilized to engage participants in reciprocal dialogues about solutions for violence exposure, health disparities, and youth thriving. First, the CAB strategically planned for key speakers who represented a range of constituencies, including those with both professional and personal knowledge, leaders in the community, community members whose voices might otherwise go unheard, and youth themselves. In sum, the speakers included 5 high school students, 4 undergraduates who read poetry from Latino youths in juvenile detention, 2 parents, 1 community outreach worker from the school, 1 Promotora de Salud (community health worker), 3 school officials (ie, guidance counselor, school board representative, and director of pupil services), and 2 elected officials (ie, city council and school board member). Each forum had a youth-serving professional as a keynote speaker who was bilingual, bicultural and had personally faced challenges during childhood, such as poverty, immigration, family and community violence, racial profiling, and discrimination.

Youths’ voices were also captured through multimedia displays. Participants viewed a bilingual video with photographs and narratives from

24 Latino/a high school students who participated in the Proyecto HÉROES photovoice program.²⁰ The youths' photographs were also exhibited at forums.

Engaging community members in idea generation

Two main strategies were used to engage community members in a colearning process during the community forums: (1) small group reciprocal dialogue and (2) written responses to prompts. In small groups, participants were divided into 8 groups comprising approximately 3 youths and 5 to 11 adults. Each group gathered to have 30-minute "circuitos" (circles) that were led in either Spanish or English by 2 facilitators. There was 1 bilingual, bicultural Latina per group that served as a scribe. Facilitators used semistructured questions to evoke dialogue focused on family stressors, community problems, challenges to addressing family needs, recommendations for change in family, school, and community settings, and action steps. Groups also generated written information that was collected, including brainstorming possible solutions on large-scale post-it notes to share with the larger forum and research team.

Drawing from HCD, we used storyboards as a method to foster creativity and idea generation.¹⁵ The storyboard method can be a relatively time-efficient and effective way to brainstorm ideas and develop a visual representation of possible solutions to a problem. The procedures are simple and do not rely solely on verbal skills. These factors are particularly useful for a randomly assembled group whose members do not have prior relationships, have varying educational and professional levels, speak different languages, and include a wide range of ages. The Table describes our storyboard procedures. Because we had already conducted the photovoice project,²⁰ we were able to use a prompt taken directly from a youth narrative in order to initiate relevant and meaningful dialogue. Participants were

invited to add complexity to the scenario by drawing on their understanding of the broader issues youth face in the community. Facilitators guided the dialogue from problem-focused to solution-focused and participants brainstormed a list of potential solutions. Ideas were built upon by adding one new aspect and then another. The final step was for participants to help visualize a solution that appealed to them by creating an individual storyboard, visually depicting the features of the solution, and generating a sequence of pictures to form the storyboard of how the solution would work (ie, using cartoon boxes). The Figure provides a few storyboard examples.

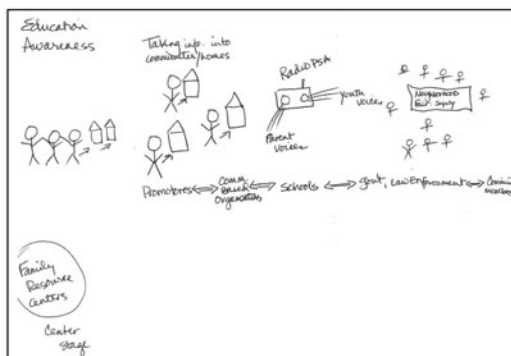
To engage participants during the community forums, a nonverbal approach drawn from an HCD activity called "Conversation Starters" was utilized.¹³ The goal of this approach is to foster creativity, elicit reactions, and initiate dialogue from participants. The conversation starters we used were youths' photovoice images paired with thought-provoking questions that were posted around the room and allowed participants to provide written responses. Examples of these questions included the following: (1) What do these pictures say about our community? (2) What vision for change do these pictures suggest? (3) What memories do these pictures bring up for you? and (4) What do you see in these pictures?

Finally, a painting of a tree image on a large piece of plywood allowed participants to add their own ideas for peace in the community on individual heart-shaped pieces of paper that were added to the tree as "leaves." One goal of this free-write activity was to provide an avenue for expression for participants who were less extroverted or preferred anonymity; in addition, it created a visual depiction of participants' perspectives on peace in the community, took a value stance by highlighting the positive (peace) over the negative (violence), and elicited ideas for change. Participants could write in Spanish or English, depending on their own preference.

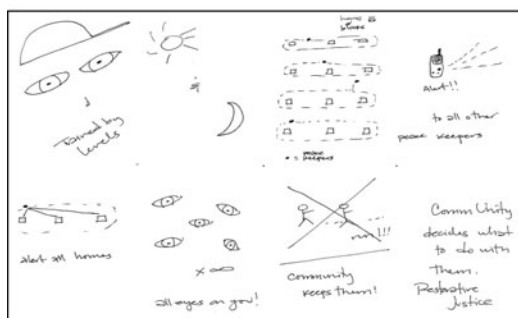
TABLE. Human-Centered Design: Storyboard Activity

Step 1	READ scenario of issue and encourage participants to ADD complexity to the scenario with similar issues faced (ie, what other stressors/challenges, how do these experiences affect the individual?).
Step 2	GENERATE potential solutions to the issues raised in the scenario. Write the solutions for the group to see and continue to brainstorm as many ideas as possible.
Step 3	Pair participants to add complexity to one of the ideas they find compelling. Have participants ELABORATE on that solution by adding a feature and then another.
Step 4	Participants CREATE a storyboard of the solution by creating a visual step-by-step depiction (ie, images and words displayed in a panel-by-panel sequence) of how it would actually work or take place.

Education & Radio PSA storyboard



Peace Keepers storyboard



Neighborhood Watch storyboard



Information Campaign storyboard

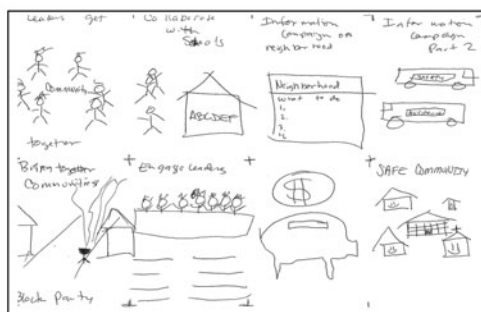


Figure. Storyboard examples. PSA indicates public service announcement.

Strategies for building community and reducing barriers

It is critical to identify potential barriers for attendance at community forums, as well as make forums accessible, appealing, and meaningful for potential participants. One strategy is to focus on how best to foster a sense of community and appreciation for the participants’ cultural backgrounds. As mentioned, simultaneous, bidirectional interpretation was provided to all participants. Each of our community forums included typical Latino/a fare served for lunch or dinner, depending on the time of the forum. Parents could bring children and be assured that their family would be served a meal, and that children’s activities were also included during the forum, so that parents did not need to obtain childcare. In addition, Latino/a music and performances by local youth dance troupes created a positive atmosphere and celebrated cultural pride and youth achievements (eg, youth flamenco dance award winners). Raffle prizes donated by local organizations and bags of groceries provided by the local Food Bank were also given to participants. Finally, the timing and location of the events were planned with CAB members, and additional youth advisors, who provided guidance on how to

reduce barriers of transportation and to involve as many different subgroups within the community as possible.

RESULTS

Health disparities and challenges faced by the Latino/a community

During the community forums, participants noted several key challenges and identified factors that they believed had negative ramifications for youth mental health and well-being. The most common challenges included (1) economic hardship, (2) violence exposure, (3) family acculturative stressors, and (4) social barriers to seeking health and mental health services.

Economic hardship

Many community members described economic hardship as a central stressor for families. In particular, because of having to take on multiple jobs and long hours, parents felt that they did not have enough time to spend together as a family and worried that it impacted how effectively they could parent, monitor, and bond with their children. For example, one mother described, “I am a single mother

of four kids, it's hard to get out of work to devote time to [my kids] after school."

In addition, low-paying, high-demand jobs and limited income contributed to emotional stress and consequently created more tension in family relationships. One immigrant parent described: "Work in this country demands a lot from you; you get home frustrated and just want to rest." Community members also pointed out that work obligations and economic restrictions hampered their ability to adequately attend to their health and mental health needs, or participate in any recreational or pleasurable activities.

Violence exposure

Community members described exposure to violence as a major stressor. In particular, both youths and adults identified domestic violence, interpersonal violence, gang and general community violence, and school bullying as the most common types of experiences. Interpersonal violence, including emotional abuse and verbal abuse, experienced by youths was cited as a central concern. Gang and general community violence were also pinpointed as particularly disquieting issues because of how pervasive they were; one parent explained "Estamos viviendo en tiempos muy intensos, hay cambios y violencia." ("We are living in very intense times, there are changes and violence"). Community members lamented that children imitated the violence they witness in their environment. They also worried about the impact of exposure to violence, bullying, and harassment. For example, one parent expressed: "I've seen lots of bullying ... it was hard on my child. My child doesn't want to go to school now."

Family acculturative stressors

Community forum participants described how acculturative stressors contributed to their distress and isolation and increased barriers to accessing systems of care. In particular, for many parents, limited English language skills had a substantial impact in reducing their sense of self-efficacy and inhibited them from asking for help or knowing about and reaching community resources.

Parents also described both cultural and linguistic barriers to accessing school resources or after-school activities, expressing the sentiment that they did not have the necessary knowledge or support to navigate these systems. Acculturative gaps between parents and youth created conflict and divisions within the household. One parent explained: "Kids begin to speak more English so parents don't understand what they are going through because they talk to their peers in English." Parents specified that

technology (ie, cell phones, computers) reduced opportunities for shared experience and interfered with family time because youth spent more time interacting with peers through technology than with parents.

Social barriers to seeking health and mental health stressors

Many community members described a deep lack of trust with systems of care, and reduced their engagement with schools, and health and mental health resources. Moreover, both parents and youths expressed their reluctance to seek help because of a sense of stigma and the shame and fear of being labeled. Participants underscored that domestic violence and mental health problems were particularly difficult to disclose due to stigma.

Synthesis and brainstorming opportunity areas to reduce health disparities

Human-centered design describes "opportunity areas" as stepping stones that rearticulate problems in generative ways to allow for a group to brainstorm multiple future-centered solutions.¹³ Three major opportunity areas generated in our forums to address stressors, barriers to care, and health disparities were (1) parent support to increase knowledge and family involvement, (2) peer mentorship to create low stigma avenues to address youth mental health and well-being, and (3) community prevention efforts to increase sense of safety and belonging.

Providing parent support to increase knowledge and family involvement

A core opportunity area focused on provision of services to strengthen families. One group described the importance of "programas de apoyo familiar" ("family support programs"), with a particular focus on "aprender las señales de los jóvenes" ("understanding the warning signs in youth"). Participants highlighted the need for more parent education to increase their understanding of child development issues ("Parents have to foster emotional, physical, social and mental development for their kids. How can we promote this or teach this to parents in our community?") and responding to their children's needs and stressors, such as peer relationships that sometimes led to conflict, harassment, and bullying. Participants suggested that the most helpful strategy would be "preparándonos como poder escuchar y ayudarlos a confiar en nosotros sin sentirse juzgados" ("helping us learn how to best listen to and help youth trust [parents] without them feeling judged by us").

In addition to improving parent-child relationships, participants highlighted the importance of engaging and supporting parents in their relationships with service providers, including parent-school communication. Already existing systems, such as the parent-teacher association, and parent-parent support systems in neighborhoods were noted as primary opportunity areas. Participants underscored the importance of addressing the needs of those parents who had the fewest resources, and/or immigrant parents. One community member articulated, “as a community we have to look for ways to create support cushions for those that don’t know how the system works” and another similarly stated, “We need to offer more free resources for immigrant families who are not aware of their rights or don’t seek help because of documentation status.”

Peer mentorship to create low stigma avenues to address youth mental health and well-being

Participants detected another opportunity area in creating and supporting interpersonal relationships that were transformative and health promoting, “como peer to peer” (“for example, peer to peer”), in the form of peer mentorship. Specifically, community members drew attention to the value of “jóvenes ayudando a otro jóvenes” (“youth helping other youth”). Groups expressed an interest in mentorship programs for youth that worked to buffer the effects of violence exposure and other stressors. They viewed this potential solution as one that could provide an avenue for addressing youth mental health and well-being in a way that had little to no negative stigma attached to it. If youth needed further support, they would also have a mentor who could provide a bridge. Parents also expressed an interest in these kinds of relationships for themselves.

Community prevention efforts to increase sense of safety and belonging

Finally, participants identified a third opportunity area: community prevention to increase a sense of safety and belonging. The importance of building safety was articulated, “Para trabajar en conjunto y tener una comunidad más segura” (“working together to have a safer community”).

Parents and youths focused on improving police-community relationships as groups generated ideas about how to increase diversity among members of the police force to create a stronger bridge. One community member explained, “tener mejor comunicación con la policía, con policías bilingües y respetando la privacidad de uno” (“having better communication with the police, greater number of bilingual police available, and more respect

for one’s privacy”). Building trust and community policing efforts were highlighted as key elements to helping parents and youth feel safer with law enforcement officers helping to protect and support, rather than punish or demean, the community. Alternatives, such as a hotline for assistance that did not necessitate police involvement, were suggested as possible ways to decrease fears about reporting community problems and to increase the likelihood that families would seek help and guidance when it was needed. In addition, strengthening community networks, creating more organic systems such as neighborhood watch groups and other ways to reconnect community members to one another, were viewed as having great potential to improve belonging and sense of safety among Latino youth and families.

DISCUSSION

This study provides an overview of how HCD strategies can be utilized within a CBPR study to address health disparities related to violence among Latino/a youth and families. Using a participatory codesign approach with community partners and advisors, community forums were conceived. The CBPR + HCD integration approach used in the community forums included steps such as community-driven discovery, anchoring the dialogue through community voices, engaging community members in idea generation, and synthesis and brainstorming opportunity areas. While this article describes how the first phase of HCD was integrated into a CBPR project, the project is ongoing, and further phases of HCD (ie, putting ideas into action through prototyping, minipilots, iteration, and ultimately, creating a sustainable model¹³) will be implemented on the basis of these initial efforts.

A CBPR + HCD integration approach created an innovative way of generating ideas in an open community forum setting, where Latino/a families from multiple immigrant and lifespan generations, alongside service providers, students, and researchers, could equitably and efficiently distill collective knowledge about the social determinants of health disparities in the local community and generate possible solutions to their identified needs. We used various HCD techniques including (1) storyboards to foster creativity and sharing, (2) prompting discussion with conversation starters, and (3) using a variety of formats for idea generation (ie, verbal discussion, drawing, and written responses). All of these techniques enhanced the richness and quality of data gathered. This project contributes to the emerging literature on CBPR + HCD integration approaches to design and assess tools for underserved and vulnerable populations.¹⁵

In this study, community members converged on several focal points that highly correlated with existing literature on key social determinants of health disparities. Namely, the results were consistent with other studies that have established the detrimental effects of poverty,²¹ violence exposure,^{22,23} and family acculturative stress on violence²⁴ (see the study by Smokowski et al²⁵ for a review of acculturation and violence). Moreover, it is clearly established that social barriers to help seeking, such as stigma,²⁶ hinder opportunities for prevention and intervention efforts to buffer the negative effects of these stressors. In particular, one systematic review, of 144 manuscripts, found that stigma is among the top 5 cited barriers to accessing mental health and is known to have a negative impact on help seeking.²⁶ Another systematic review of articles related to Latina survivors of violence found that the barriers to help seeking also included language and immigration/deportation fears.²⁷

Participants identified parent support, peer mentorship, and community prevention as key opportunity areas for change. There are a number of evidence-based family strengthening interventions that help identify how best to provide parents with opportunities, skills, resources, and supports to promote their children's positive development,²⁸ including the Strengthening Families Program that has been adapted for Latino/a families.²⁹ Community health workers, or promotoras, can be an effective bridge to help elicit parent involvement in health promotion, prevention, and increasing access to health care.³⁰ Additionally, research suggests that mentoring programs can promote positive youth development^{31,32} in areas such as high-risk and violent behaviors, academic/educational outcomes, and career/employment outcomes.³²⁻³⁴ There is less research on outcomes of mentoring specific to Latino/a youth, but preliminary findings are positive.³⁵⁻³⁷ In a meta-analysis, Hall³² identified a number of key features that help make mentoring relationships successful, including monitoring of program implementation, screening of prospective mentors, matching of mentors and youth on relevant criteria, training, supervision, support for mentors, structured activities for mentors and youth, parental support and involvement, frequency of contact, and length of relationship.

One area that appears to be underaddressed in the literature is improving community-police relationships among Latino/a communities. High levels of mistrust and fear of police among Latinos/as in the United States lead to feelings of isolation, disconnectedness, and a lack of safety.³⁸ A multitiered intervention to reducing youth violence might incorporate elements relating to police relationships with youth and families.

One limitation was that community forums were not evenly composed of adults and youths. Our CAB helped plan and design the forums, including advertising and recruitment of participants, and we attempted to incorporate many elements to increase participation (eg, food, childcare, raffle prizes, entertainment). It is possible that waiting for a specific event (eg, community violence that recently occurred) to draw a larger group of concerned individuals would have increased the number of youths and adults. Future researchers should continue to identify elements that appeal to adolescent youth participants more directly. Given the challenges of drawing youth to the event itself, we were able to incorporate youths voices by scheduling adolescent speakers and capitalizing on the narratives and images that youths had created as part of a photovoice project that led up to the community forums.

Other researchers also emphasize a framework that considers cultural and contextual aspects of ethnic minority youths' lives.³⁹ Innovative approaches to engaging youth in the dialogue about solutions, while also considering the stressors and contextual factors, may aid in moving toward increasing opportunities for youth to benefit from prevention and intervention efforts. Wilson and Deane⁴⁰ conducted focus groups with youths to elicit their ideas about reducing these barriers and found that utilizing peer networks to share information about help-seeking may help minimize barriers.

It is important to continue to recognize the benefits of eliciting youth perspectives of solutions to address disparities/barriers and increase the voices of ethnic minority individuals who are often not included in dialogues about health disparities. The current study aimed to drive these efforts forward by offering the possibility of integrating HCD strategies into CBPR partnership efforts to engage the community in a reciprocal dialogue. Future research should examine which strategies are most effective in generating creative and innovative solutions to challenging and long-standing community problems. More research is needed that uses creative approaches to elicit youth, family, and community perspectives about solutions to address violence and related stressors and reduce barriers that may impede access to prevention and intervention for health and mental health care.

REFERENCES

1. U.S. Bureau. State and county quickfacts. <https://www.census.gov/quickfacts/table/PST045215/00>. Published 2013. Accessed January 31, 2016.
2. National Child Traumatic Stress Network. Promoting culturally competent trauma informed practices. *NCTSN Cultur Trauma Briefs*. 2005;1(1):1-3. www.NCTSN.org. Accessed October 20, 2015.

3. Alegria M, Greif Green J, McLaughlin K, Loder S. *Disparities in child and adolescent mental health and mental health services in the U.S.* New York, NY: William T Grant Foundation; 2015. https://philanthropynewyork.org/sites/default/files/resources/Disparities_in_child_and_adolescent_health.pdf. Accessed June 23, 2016.
4. Escarce JJ, Kapur K. Access to and quality of health care. In: Tienda M, Mitchell F, eds. *Hispanics and the Future of America*. Washington, DC: National Academics Press; 2006:410-446.
5. Sánchez M, Cardemil E, Adams ST, et al. Brave new world: mental health experiences of Puerto Ricans, immigrant Latinos, and Brazilians in Massachusetts. *Cultur Divers Ethnic Minor Psychol*. 2014;20(1):16-26. doi:<http://doi.org/10.1037/a0034093>.
6. McPhatter AR. Cultural competence in child welfare: what is it? How do we achieve it? What happens without it? *Child Welfare*. 1997;76(1):255-278.
7. Perilla JL, Wilson AH, Wold JL, Spencer L. Listening to migrant voices: focus groups on health issues in South Georgia. *J Community Health Nurs*. 1998;15(4):251-263. doi:http://doi.org/10.1207/s15327655jchn1504_6.
8. Wallerstein NB, Duran B. Using community-based participatory research to address health disparities. *Health Promot Pract*. 2006;7(3):312-323. doi:10.1177/1524839906289376.
9. Pinto RM, McKay M, Escobar C. "You've gotta know the community": minority women make recommendations about community-focused health research. *Women Health*. 2008;47(1):21-44. doi:<http://doi.org/10.1300/J013v47n01>.
10. Israel BA, Eng E, Schulz AJ, Parker EA. *Methods for Community-Based Participatory Research for Health*. 2nd ed. San Francisco, CA: John Wiley & Sons, Inc.; 2012.
11. Freire P. *The Pedagogy of the Oppressed*. New York, NY: Continuum; 1970.
12. Banks S, Armstrong A, Carter K, et al. Everyday ethics in community-based participatory research. *Contemp Soc Sci*. 2013;8(3):1-15. <http://doi.org/10.1080/21582041.2013.769618>. Accessed June 23, 2016.
13. IDEO.org. The field guide to human-centered design. <http://www.designkit.org/resources/1>. Published 2015. Accessed June 10, 2016.
14. Giacomini J. What is human centered design. *Des J*. 2014;17(4):606-623. doi:10.2752/175630614x14056185480186.
15. Durand MA, Alam S, Grande SW, Elwyn G. "Much clearer with pictures": using community-based participatory research to design and test a picture option grid for underserved patients with breast cancer. *BMJ Open*. 2016;6(2):e010008. doi:<http://doi.org/10.1136/bmjopen-2015-010008>.
16. Kia-Keating M, Dowdy E, Morgan ML, Noam GG. Protecting and promoting: an integrative conceptual model for healthy development of adolescents. *J Adolesc Health*. 2011;48(3):220-228. doi:10.1016/j.jadohealth.2010.08.006.
17. Esposito N. From meaning to meaning: the influence of translation techniques on non-English focus group research. *Qual Health Res*. 2001;11(4):568-579. doi:10.1177/104973201129119217.
18. Kroll JF, De Groot AMB. *Handbook of Bilingualism: Psycholinguistic Approaches*. New York, NY: Oxford University Press; 2005.
19. Sperling J. *Communicating More for Less: Using Translation and Interpretation Technology to Serve Limited English Proficient Individuals*. Washington, DC: Migration Policy Institute; 2011.
20. Kia-Keating M. (Producer). VISUAL+ize: Proyecto HEROES (Honor, Educación, Respeto, Oportunidad, Esperanza, y Soluciones) Youth Photovoice [Online video]. https://www.youtube.com/watch?v=_MZnrUKBfb0 (bilingual) and https://www.youtube.com/watch?v=yUsM_BkqLsc. Published 2014. Accessed January 23, 2017.
21. McAra L, McVie S. Understanding youth violence: the mediating effects of gender, poverty and vulnerability. *J Crim Justice*. 2016;45:1-77.
22. Brady SS, Gorman-Smith D, Henry DB, Tolan PH. Adaptive coping reduces the impact of community violence exposure on violent behavior among African American and Latino male adolescents. *J Abnorm Child Psychol*. 2008;36(1):105-115.
23. Gudiño OG, Nadeem E, Kataoka SH, Lau AS. Relative impact of violence exposure and immigrant stressors on Latino youth psychopathology. *J Community Psychol*. 2011;39(3):316-335. doi:10.1002/jcop.20435.
24. Hokoda A, Galván DB, Malcarne VL, Castañeda DM, Ulloa EC. An exploratory study examining teen dating violence, acculturation and acculturative stress in Mexican-American adolescents. *J Aggress Maltreat Trauma*. 2007;14(3):33-49.
25. Smokowski PR, David-Ferdon C, Stroupe N. Acculturation and violence in minority adolescents: a review of the empirical literature. *J Prim Prev*. 2009;30:215-263. doi:[doi:doi.org/10.1007/s10935-009-0173-0](http://doi.org/10.1007/s10935-009-0173-0).
26. Clement S, Schauman O, Graham T, et al. What is the impact of mental health-related stigma on help seeking? A systematic review of quantitative and qualitative studies. *Psychol Med*. 2015;45(1):11-27. doi:10.1017/S0033291714000129.
27. Rizo CF, Macy RJ. Help seeking and barriers of Hispanic partner violence survivors: a systematic review of the literature. *Aggress Violent Behav*. 2006;16(3):250-264. doi:10.1016/j.avb.2011.03.004.
28. Caspe M, Lopez ME. *Lessons From Family-Strengthening Interventions: Learning From Evidence-Based Practice*. Cambridge, MA: Harvard Family Research Project; 2006.
29. Chartier KG, Negroni LK, Hesselbrock MN. Strengthening family practices for Latino families. *J Ethn Cult Divers Soc Work*. 2010;19(1):1-17. doi:10.1080/15313200903531982.
30. Stacciarini JMR, Rosa A, Ortiz M, Munari DB, Uicab G, Balam M. Promotoras in mental health. *Family Community Health*. 2012;35(2):92-102. doi:10.1097/FCH.0b013e3182464f65.
31. DuBois DL, Karcher MJ. Youth mentoring: theory, research, and practice. In: DuBois DL, Karcher MJ, eds. *Handbook of Youth Mentoring*. 2nd ed. Thousand Oaks, CA: Sage Publication, Inc.; 2005.
32. Hall J. *Mentoring and Young People: A Literature Review*. York, United Kingdom: The SCRE Centre, Research in Education, University of Glasgow; 2003.
33. Grossman JB, Tierney JP. Does mentoring work? An impact study of the Big Brothers Big Sisters program. *Eval Rev*. 1998;22(3):403-426. doi:10.1177/0193841x9802200304.
34. McGill DE, Mihalic SF, Grotperter JK, Elliott DS. *Blueprints for Violence Prevention, Book Two: Big Brothers Big Sisters of America*. Boulder, CO: Center for the Study and Prevention of Violence; 1997. <https://www.ncjrs.gov/pdffiles1/Digitization/174195NCJRS.pdf>. Accessed October 16, 2015.
35. Barron-McKeagney T, Woody JD, D'Souza HJ. Mentoring at-risk Latino children and their parents: impact on social skills and problem behaviors. *Child Adolesc Social*

- Work J.* 2001;18(2):119-136. doi:http://doi.org/10.1023/A:1007698728775.
36. Bernal DD, Alemán EJ, Garavito A. Latina/o undergraduate students mentoring Latina/o elementary students: a borderlands analysis of shifting identities and first-year experiences. *Harvard Educ Rev.* 2009;79(4):560-585. http://dx.doi.org/10.17763/haer.79.4.01107jp4uv648517. Accessed October 14, 2015.
 37. Phinney JS, Campos CMT, Kallemeyn DMP, Kim C. Processes and outcomes of a mentoring program for Latino college freshmen. *J Soc Issues.* 2011;67(3):599-621. doi:http://doi.org/10.1111/j.1540-4560.2011.01716.x.
 38. Theodore N. *Insecure Communities: Latino Perceptions of Police Involvement in Immigration Enforcement.* Chicago, IL: University of Illinois at Chicago; 2013. http://www.issuelab.org/resource/insecure_communities_latino_perceptions_of_police_involvement_in_immigration_enforcement. Accessed June 30, 2016.
 39. Cauce AM, Domenech-Rodriguez M, Paradise M, et al. Cultural and contextual influences in mental health seeking: a focus on ethnic minority youth. *J Consult Clin Psychol.* 2002;70(1):44-55. doi:10.10359/0022-006X.10.1.44.
 40. Wilson CJ, Deane FP. Adolescent opinions about reducing help-seeking barriers and increasing appropriate help engagement. *J Educ Psychol Consult.* 2001;12(4):345-364. doi:10.1207/S1532768XJEPC1204_03.